Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40157698

Table Of Contents

Project Overview

Final Report with COC/SCUR . . . 1

SDG Narrative . . . 41

Organic

GC-ECD PCBs

Surrogate Recovery Summary (Form 2) . . . 43

Laboratory Control Spike/Laboratory Control Spike Duplicate Summary (Form 3) . . . 46

Matrix Spike/Matrix Spike Duplicate Summary (Form 3) . . . 49

Duplicate Summary (Form 3) . . . 52

Method Blank Association Summary (Form 4) . . . 58

Analytical Results with Raw Data (Form 1) . . . 61

Initial Calibration Summary (Form 6) . . . 205

Raw Data for Initial Calibration Standards . . . 212

Continuing Calibration Summary (Form 7) . . . 352

Raw Data for Continuing Calibration Standards . . . 368

Raw Data QC . . . 455

Preparation Logs Raw Data . . . 524

Instrument Run Log . . . 530

Standards Traceability . . . 548

Certificate of Analysis . . . 628

InOrganic

Gravimetric

Analytical Results (Form 1-IN) . . . 656

Blanks (Form 3-IN) . . . 672

Duplicates (Form 6-IN) . . . 675

Preparation Logs Raw Data . . . 681

Biota Prep Logs

Biota Prep Log . . . 685

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.: 40157698

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 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.: 40157698

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.: 40157698

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40157698001	**TD4-170615-01-SMB-05**	Tissue	06/15/17 16:04	09/29/17 10:00
40157698002	**ND5-170615-01-SMB-06**	Tissue	06/15/17 12:56	09/29/17 10:00
40157698003	**ND5-170615-01-SMB-05**	Tissue	06/15/17 12:51	09/29/17 10:00
40157698004	**ND5-170615-01-SMB-04**	Tissue	06/15/17 12:48	09/29/17 10:00
40157698005	**ND5-170615-01-SMB-03**	Tissue	06/15/17 12:45	09/29/17 10:00
40157698006	**ND5-170615-01-SMB-02**	Tissue	06/15/17 12:44	09/29/17 10:00
40157698007	**ND5-170615-01-SMB-01**	Tissue	06/15/17 12:40	09/29/17 10:00
40157698008	**ND5-170615-01-LMB-04**	Tissue	06/15/17 12:54	09/29/17 10:00
40157698009	**ND5-170615-01-LMB-03**	Tissue	06/15/17 12:53	09/29/17 10:00
40157698010	**ND5-170615-01-LMB-02**	Tissue	06/15/17 12:49	09/29/17 10:00
40157698011	**ND5-170615-01-LMB-01**	Tissue	06/15/17 12:42	09/29/17 10:00
40157698012	**ND3-170615-01-SMB-05**	Tissue	06/15/17 10:18	09/29/17 10:00
40157698013	**ND3-170615-01-SMB-04**	Tissue	06/15/17 10:16	09/29/17 10:00
40157698014	**ND3-170615-01-SMB-03**	Tissue	06/15/17 10:14	09/29/17 10:00
40157698015	**ND3-170615-01-SMB-02**	Tissue	06/15/17 10:12	09/29/17 10:00
40157698016	**ND3-170615-01-SMB-01**	Tissue	06/15/17 10:09	09/29/17 10:00

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40157698001	**TD4-170615-01-SMB-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157698002	**ND5-170615-01-SMB-06**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157698003	**ND5-170615-01-SMB-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157698004	**ND5-170615-01-SMB-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157698005	**ND5-170615-01-SMB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157698006	**ND5-170615-01-SMB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157698007	**ND5-170615-01-SMB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157698008	**ND5-170615-01-LMB-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157698009	**ND5-170615-01-LMB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157698010	**ND5-170615-01-LMB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157698011	**ND5-170615-01-LMB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157698012	**ND3-170615-01-SMB-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157698013	**ND3-170615-01-SMB-04**	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157698014	**ND3-170615-01-SMB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157698015	**ND3-170615-01-SMB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157698016	**ND3-170615-01-SMB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

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

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

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

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

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

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

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

QC Batch: 285844

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

- ND5-170615-01-LMB-02 (Lab ID: 40157698010)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

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

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

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

QC Batch: 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)
  - 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.: 40157698

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

Analyte Comments:

QC Batch: 285995

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

- ND5-170615-01-SMB-05 (Lab ID: 40157698003)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

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

General Information:
16 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.: 40157698

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

General Information:
16 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.: 40157698

Sample: TD4-170615-01-SMB-05 **Lab ID: 40157698001** Collected: 06/15/17 16:04 Received: 09/29/17 10:00 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	04/13/18 07:19	04/17/18 14:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 14:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 14:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 14:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**335**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 14:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**338**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 14:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**161**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 14:50	11096-82-5	
PCB, Total	**834**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 14:50	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		2	04/13/18 07:19	04/17/18 14:50	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		2	04/13/18 07:19	04/17/18 14:50	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/02/18 14:46		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.41**	%	0.030	0.030	1		04/17/18 06:57		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND5-170615-01-SMB-06 **Lab ID: 40157698002** Collected: 06/15/17 12:56 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<57.0**	ug/kg	250	57.0	5	04/13/18 07:19	04/17/18 15:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.0**	ug/kg	250	57.0	5	04/13/18 07:19	04/17/18 15:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.0**	ug/kg	250	57.0	5	04/13/18 07:19	04/17/18 15:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.0**	ug/kg	250	57.0	5	04/13/18 07:19	04/17/18 15:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**710**	ug/kg	250	57.0	5	04/13/18 07:19	04/17/18 15:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**699**	ug/kg	250	57.0	5	04/13/18 07:19	04/17/18 15:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**552**	ug/kg	250	57.0	5	04/13/18 07:19	04/17/18 15:53	11096-82-5	
PCB, Total	**1960**	ug/kg	250	57.0	5	04/13/18 07:19	04/17/18 15:53	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		5	04/13/18 07:19	04/17/18 15:53	877-09-8	
Decachlorobiphenyl (S)	106	%	60-140		5	04/13/18 07:19	04/17/18 15:53	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/03/18 13:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.33**	%	0.030	0.030	1		04/17/18 06:57		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND5-170615-01-SMB-05 **Lab ID: 40157698003** Collected: 06/15/17 12:51 Received: 09/29/17 10:00 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	04/13/18 07:19	04/18/18 14:01	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**116J**	ug/kg	150	34.1	3	04/13/18 07:19	04/18/18 14:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.1**	ug/kg	150	34.1	3	04/13/18 07:19	04/18/18 14:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.1**	ug/kg	150	34.1	3	04/13/18 07:19	04/18/18 14:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**592**	ug/kg	150	34.1	3	04/13/18 07:19	04/18/18 14:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**454**	ug/kg	150	34.1	3	04/13/18 07:19	04/18/18 14:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**245**	ug/kg	150	34.1	3	04/13/18 07:19	04/18/18 14:01	11096-82-5	
PCB, Total	**1410**	ug/kg	150	34.1	3	04/13/18 07:19	04/18/18 14:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		3	04/13/18 07:19	04/18/18 14:01	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		3	04/13/18 07:19	04/18/18 14:01	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/03/18 13:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.36**	%	0.030	0.030	1		04/17/18 06:58		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND5-170615-01-SMB-04 **Lab ID: 40157698004** Collected: 06/15/17 12:48 Received: 09/29/17 10:00 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	04/13/18 07:19	04/17/18 16:25	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.3**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 16:25	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.3**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 16:25	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.3**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 16:25	53469-21-9	
PCB-1248 (Aroclor 1248)	**579**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 16:25	12672-29-6	
PCB-1254 (Aroclor 1254)	**552**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 16:25	11097-69-1	
PCB-1260 (Aroclor 1260)	**251**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 16:25	11096-82-5	
PCB, Total	**1380**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 16:25	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	60-140		3	04/13/18 07:19	04/17/18 16:25	877-09-8	
Decachlorobiphenyl (S)	106	%	60-140		3	04/13/18 07:19	04/17/18 16:25	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/03/18 13:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.50**	%	0.030	0.030	1		04/17/18 06:58		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND5-170615-01-SMB-03 **Lab ID: 40157698005** Collected: 06/15/17 12:45 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<45.6**	ug/kg	200	45.6	4	04/13/18 07:19	04/17/18 16:41	12674-11-2	
PCB-1221 (Aroclor 1221)	**123J**	ug/kg	200	45.6	4	04/13/18 07:19	04/17/18 16:41	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.6**	ug/kg	200	45.6	4	04/13/18 07:19	04/17/18 16:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.6**	ug/kg	200	45.6	4	04/13/18 07:19	04/17/18 16:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**939**	ug/kg	200	45.6	4	04/13/18 07:19	04/17/18 16:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**778**	ug/kg	200	45.6	4	04/13/18 07:19	04/17/18 16:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**325**	ug/kg	200	45.6	4	04/13/18 07:19	04/17/18 16:41	11096-82-5	
PCB, Total	**2160**	ug/kg	200	45.6	4	04/13/18 07:19	04/17/18 16:41	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		4	04/13/18 07:19	04/17/18 16:41	877-09-8	
Decachlorobiphenyl (S)	104	%	60-140		4	04/13/18 07:19	04/17/18 16:41	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/03/18 13:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.48**	%	0.030	0.030	1		04/17/18 06:58		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND5-170615-01-SMB-02 **Lab ID: 40157698006** Collected: 06/15/17 12:44 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	501	114	10	04/10/18 07:13	04/11/18 16:54	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	501	114	10	04/10/18 07:13	04/11/18 16:54	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	501	114	10	04/10/18 07:13	04/11/18 16:54	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	501	114	10	04/10/18 07:13	04/11/18 16:54	53469-21-9	
PCB-1248 (Aroclor 1248)	**914**	ug/kg	501	114	10	04/10/18 07:13	04/11/18 16:54	12672-29-6	
PCB-1254 (Aroclor 1254)	**1020**	ug/kg	501	114	10	04/10/18 07:13	04/11/18 16:54	11097-69-1	
PCB-1260 (Aroclor 1260)	**1140**	ug/kg	501	114	10	04/10/18 07:13	04/11/18 16:54	11096-82-5	
PCB, Total	**3080**	ug/kg	501	114	10	04/10/18 07:13	04/11/18 16:54	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	100	%	60-140		10	04/10/18 07:13	04/11/18 16:54	877-09-8	
Decachlorobiphenyl (S)	125	%	60-140		10	04/10/18 07:13	04/11/18 16:54	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/03/18 13:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.52**	%	0.030	0.030	1		04/11/18 07:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND5-170615-01-SMB-01 **Lab ID: 40157698007** Collected: 06/15/17 12:40 Received: 09/29/17 10:00 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	04/10/18 07:13	04/11/18 17:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.2**	ug/kg	150	34.2	3	04/10/18 07:13	04/11/18 17:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	04/10/18 07:13	04/11/18 17:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	04/10/18 07:13	04/11/18 17:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**378**	ug/kg	150	34.2	3	04/10/18 07:13	04/11/18 17:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**388**	ug/kg	150	34.2	3	04/10/18 07:13	04/11/18 17:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**397**	ug/kg	150	34.2	3	04/10/18 07:13	04/11/18 17:10	11096-82-5	
PCB, Total	**1160**	ug/kg	150	34.2	3	04/10/18 07:13	04/11/18 17:10	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		3	04/10/18 07:13	04/11/18 17:10	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		3	04/10/18 07:13	04/11/18 17:10	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/03/18 13:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.30**	%	0.030	0.030	1		04/11/18 07:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND5-170615-01-LMB-04 **Lab ID: 40157698008** Collected: 06/15/17 12:54 Received: 09/29/17 10:00 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.9**	ug/kg	100	22.9	2	04/12/18 07:14	04/13/18 19:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.9**	ug/kg	100	22.9	2	04/12/18 07:14	04/13/18 19:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.9**	ug/kg	100	22.9	2	04/12/18 07:14	04/13/18 19:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.9**	ug/kg	100	22.9	2	04/12/18 07:14	04/13/18 19:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**416**	ug/kg	100	22.9	2	04/12/18 07:14	04/13/18 19:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**244**	ug/kg	100	22.9	2	04/12/18 07:14	04/13/18 19:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**90.6J**	ug/kg	100	22.9	2	04/12/18 07:14	04/13/18 19:02	11096-82-5	
PCB, Total	**750**	ug/kg	100	22.9	2	04/12/18 07:14	04/13/18 19:02	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	60-140		2	04/12/18 07:14	04/13/18 19:02	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		2	04/12/18 07:14	04/13/18 19:02	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/03/18 13:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.21**	%	0.030	0.030	1		04/13/18 06:30		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND5-170615-01-LMB-03 **Lab ID: 40157698009** Collected: 06/15/17 12:53 Received: 09/29/17 10:00 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	04/12/18 07:14	04/13/18 19:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**72.0J**	ug/kg	100	22.8	2	04/12/18 07:14	04/13/18 19:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	04/12/18 07:14	04/13/18 19:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	04/12/18 07:14	04/13/18 19:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**287**	ug/kg	100	22.8	2	04/12/18 07:14	04/13/18 19:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**150**	ug/kg	100	22.8	2	04/12/18 07:14	04/13/18 19:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**62.5J**	ug/kg	100	22.8	2	04/12/18 07:14	04/13/18 19:18	11096-82-5	
PCB, Total	**571**	ug/kg	100	22.8	2	04/12/18 07:14	04/13/18 19:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		2	04/12/18 07:14	04/13/18 19:18	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		2	04/12/18 07:14	04/13/18 19:18	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/03/18 13:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.50**	%	0.030	0.030	1		04/13/18 06:30		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND5-170615-01-LMB-02 **Lab ID: 40157698010** Collected: 06/15/17 12:49 Received: 09/29/17 10:00 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)	**<172**	ug/kg	752	172	15	04/12/18 07:14	04/13/18 19:34	12674-11-2	
PCB-1221 (Aroclor 1221)	**<172**	ug/kg	752	172	15	04/12/18 07:14	04/13/18 19:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<172**	ug/kg	752	172	15	04/12/18 07:14	04/13/18 19:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<172**	ug/kg	752	172	15	04/12/18 07:14	04/13/18 19:34	53469-21-9	
PCB-1248 (Aroclor 1248)	**2740**	ug/kg	752	172	15	04/12/18 07:14	04/13/18 19:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**1490**	ug/kg	752	172	15	04/12/18 07:14	04/13/18 19:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**520J**	ug/kg	752	172	15	04/12/18 07:14	04/13/18 19:34	11096-82-5	
PCB, Total	**4750**	ug/kg	752	172	15	04/12/18 07:14	04/13/18 19:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		15	04/12/18 07:14	04/13/18 19:34	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		15	04/12/18 07:14	04/13/18 19:34	2051-24-3	S4
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/03/18 13:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.64**	%	0.030	0.030	1		04/13/18 06:30		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND5-170615-01-LMB-01 **Lab ID: 40157698011** Collected: 06/15/17 12:42 Received: 09/29/17 10:00 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	04/12/18 07:14	04/13/18 19:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**33.3J**	ug/kg	49.9	11.4	1	04/12/18 07:14	04/13/18 19:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/12/18 07:14	04/13/18 19:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/12/18 07:14	04/13/18 19:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**179**	ug/kg	49.9	11.4	1	04/12/18 07:14	04/13/18 19:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**107**	ug/kg	49.9	11.4	1	04/12/18 07:14	04/13/18 19:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**50.4**	ug/kg	49.9	11.4	1	04/12/18 07:14	04/13/18 19:50	11096-82-5	
PCB, Total	**370**	ug/kg	49.9	11.4	1	04/12/18 07:14	04/13/18 19:50	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	60-140		1	04/12/18 07:14	04/13/18 19:50	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		1	04/12/18 07:14	04/13/18 19:50	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/03/18 14:29		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.26**	%	0.030	0.030	1		04/13/18 06:30		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND3-170615-01-SMB-05 **Lab ID: 40157698012** Collected: 06/15/17 10:18 Received: 09/29/17 10:00 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	04/10/18 07:13	04/11/18 17:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	04/10/18 07:13	04/11/18 17:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	04/10/18 07:13	04/11/18 17:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	04/10/18 07:13	04/11/18 17:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**251**	ug/kg	50.1	11.4	1	04/10/18 07:13	04/11/18 17:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**196**	ug/kg	50.1	11.4	1	04/10/18 07:13	04/11/18 17:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**76.5**	ug/kg	50.1	11.4	1	04/10/18 07:13	04/11/18 17:26	11096-82-5	
PCB, Total	**524**	ug/kg	50.1	11.4	1	04/10/18 07:13	04/11/18 17:26	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	60-140		1	04/10/18 07:13	04/11/18 17:26	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	04/10/18 07:13	04/11/18 17:26	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/03/18 14:29		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.25**	%	0.030	0.030	1		04/11/18 07:19		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND3-170615-01-SMB-04 **Lab ID: 40157698013** Collected: 06/15/17 10:16 Received: 09/29/17 10:00 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	99.6	22.7	2	04/10/18 07:13	04/11/18 18:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.7**	ug/kg	99.6	22.7	2	04/10/18 07:13	04/11/18 18:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.7**	ug/kg	99.6	22.7	2	04/10/18 07:13	04/11/18 18:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.7**	ug/kg	99.6	22.7	2	04/10/18 07:13	04/11/18 18:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**302**	ug/kg	99.6	22.7	2	04/10/18 07:13	04/11/18 18:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**267**	ug/kg	99.6	22.7	2	04/10/18 07:13	04/11/18 18:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**138**	ug/kg	99.6	22.7	2	04/10/18 07:13	04/11/18 18:14	11096-82-5	
PCB, Total	**707**	ug/kg	99.6	22.7	2	04/10/18 07:13	04/11/18 18:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		2	04/10/18 07:13	04/11/18 18:14	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		2	04/10/18 07:13	04/11/18 18:14	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/03/18 14:29		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.18**	%	0.030	0.030	1		04/11/18 07:19		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND3-170615-01-SMB-03 **Lab ID: 40157698014** Collected: 06/15/17 10:14 Received: 09/29/17 10:00 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	04/10/18 07:13	04/11/18 18:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	100	22.8	2	04/10/18 07:13	04/11/18 18:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	04/10/18 07:13	04/11/18 18:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	04/10/18 07:13	04/11/18 18:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**387**	ug/kg	100	22.8	2	04/10/18 07:13	04/11/18 18:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**359**	ug/kg	100	22.8	2	04/10/18 07:13	04/11/18 18:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**225**	ug/kg	100	22.8	2	04/10/18 07:13	04/11/18 18:30	11096-82-5	
PCB, Total	**971**	ug/kg	100	22.8	2	04/10/18 07:13	04/11/18 18:30	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		2	04/10/18 07:13	04/11/18 18:30	877-09-8	
Decachlorobiphenyl (S)	102	%	60-140		2	04/10/18 07:13	04/11/18 18:30	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/03/18 14:29		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.48**	%	0.030	0.030	1		04/11/18 07:19		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND3-170615-01-SMB-02 **Lab ID: 40157698015** Collected: 06/15/17 10:12 Received: 09/29/17 10:00 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	50.0	11.4	1	04/10/18 07:13	04/11/18 18:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	04/10/18 07:13	04/11/18 18:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/10/18 07:13	04/11/18 18:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/10/18 07:13	04/11/18 18:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**199**	ug/kg	50.0	11.4	1	04/10/18 07:13	04/11/18 18:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**177**	ug/kg	50.0	11.4	1	04/10/18 07:13	04/11/18 18:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**98.0**	ug/kg	50.0	11.4	1	04/10/18 07:13	04/11/18 18:45	11096-82-5	
PCB, Total	**474**	ug/kg	50.0	11.4	1	04/10/18 07:13	04/11/18 18:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	60-140		1	04/10/18 07:13	04/11/18 18:45	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	04/10/18 07:13	04/11/18 18:45	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/03/18 14:29		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.37**	%	0.030	0.030	1		04/11/18 07:19		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Sample: ND3-170615-01-SMB-01 **Lab ID: 40157698016** Collected: 06/15/17 10:09 Received: 09/29/17 10:00 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	04/10/18 07:13	04/11/18 19:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.1**	ug/kg	150	34.1	3	04/10/18 07:13	04/11/18 19:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.1**	ug/kg	150	34.1	3	04/10/18 07:13	04/11/18 19:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.1**	ug/kg	150	34.1	3	04/10/18 07:13	04/11/18 19:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**505**	ug/kg	150	34.1	3	04/10/18 07:13	04/11/18 19:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**586**	ug/kg	150	34.1	3	04/10/18 07:13	04/11/18 19:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**265**	ug/kg	150	34.1	3	04/10/18 07:13	04/11/18 19:01	11096-82-5	
PCB, Total	**1360**	ug/kg	150	34.1	3	04/10/18 07:13	04/11/18 19:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	60-140		3	04/10/18 07:13	04/11/18 19:01	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		3	04/10/18 07:13	04/11/18 19:01	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/03/18 14:29		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.40**	%	0.030	0.030	1		04/11/18 07:20		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

QC Batch: 285569 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157698006, 40157698007, 40157698012, 40157698013, 40157698014, 40157698015, 40157698016

METHOD BLANK: 1671063 | Matrix: Tissue
Associated Lab Samples: 40157698006, 40157698007, 40157698012, 40157698013, 40157698014, 40157698015, 40157698016

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.: 40157698

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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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

QC Batch: 285844 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157698008, 40157698009, 40157698010, 40157698011

METHOD BLANK: 1672269 | Matrix: Tissue
Associated Lab Samples: 40157698008, 40157698009, 40157698010, 40157698011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/13/18 15:52	
Decachlorobiphenyl (S)	%	98	60-140		04/13/18 15:52	
Tetrachloro-m-xylene (S)	%	80	60-140		04/13/18 15:52	

LABORATORY CONTROL SAMPLE: 1672270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	250	236	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)	%			95	60-140	
Tetrachloro-m-xylene (S)	%			80	60-140	

MATRIX SPIKE SAMPLE: 1672272

Parameter	Units	40157698011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg	33.3J		112			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	250	289	116	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	179		323			
PCB-1254 (Aroclor 1254)	ug/kg	107		128			
PCB-1260 (Aroclor 1260)	ug/kg	50.4		49.3J			
Decachlorobiphenyl (S)	%				96	60-140	
Tetrachloro-m-xylene (S)	%				85	60-140	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

SAMPLE DUPLICATE: 1672271

Parameter	Units	40157492016 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	76.7	76.0	1	40	
PCB-1254 (Aroclor 1254)	ug/kg	49.7J	48.5J		40	
PCB-1260 (Aroclor 1260)	ug/kg	31.3J	30.9J		40	
Decachlorobiphenyl (S)	%	92	92	0		
Tetrachloro-m-xylene (S)	%	85	86	2		

SAMPLE DUPLICATE: 1672273

Parameter	Units	40157698011 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	33.3J	29.9J		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	179	157	13	40	
PCB-1254 (Aroclor 1254)	ug/kg	107	92.8	15	40	
PCB-1260 (Aroclor 1260)	ug/kg	50.4	42.4J		40	
Decachlorobiphenyl (S)	%	95	92	2		
Tetrachloro-m-xylene (S)	%	83	83	0		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

QC Batch: 285995 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157698001, 40157698002, 40157698003, 40157698004, 40157698005

METHOD BLANK: 1673128 | Matrix: Tissue
Associated Lab Samples: 40157698001, 40157698002, 40157698003, 40157698004, 40157698005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/17/18 12:59	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/17/18 12:59	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/17/18 12:59	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/17/18 12:59	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/17/18 12:59	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/17/18 12:59	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/17/18 12:59	
Decachlorobiphenyl (S)	%	85	60-140		04/17/18 12:59	
Tetrachloro-m-xylene (S)	%	73	60-140		04/17/18 12:59	

LABORATORY CONTROL SAMPLE: 1673129

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	207	83	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)	%			84	60-140	
Tetrachloro-m-xylene (S)	%			76	60-140	

MATRIX SPIKE SAMPLE: 1673130

Parameter	Units	40157492019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.2		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg	42.4J		129			
PCB-1232 (Aroclor 1232)	ug/kg	<11.2		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	<11.2	250	280	112	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	110		255			
PCB-1254 (Aroclor 1254)	ug/kg	42.6J		69.0			
PCB-1260 (Aroclor 1260)	ug/kg	37.1J		38.9J			
Decachlorobiphenyl (S)	%				91	60-140	
Tetrachloro-m-xylene (S)	%				89	60-140	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

SAMPLE DUPLICATE: 1673131

Parameter	Units	40157492019 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.2	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	42.4J	46.5J		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.2	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.2	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	110	113	3	40	
PCB-1254 (Aroclor 1254)	ug/kg	42.6J	43.2J		40	
PCB-1260 (Aroclor 1260)	ug/kg	37.1J	36.9J		40	
Decachlorobiphenyl (S)	%	92	89	2		
Tetrachloro-m-xylene (S)	%	93	88	3		

SAMPLE DUPLICATE: 1673132

Parameter	Units	40157698001 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.8	<22.8		40	
PCB-1221 (Aroclor 1221)	ug/kg	<22.8	<22.8		40	
PCB-1232 (Aroclor 1232)	ug/kg	<22.8	<22.8		40	
PCB-1242 (Aroclor 1242)	ug/kg	<22.8	<22.8		40	
PCB-1248 (Aroclor 1248)	ug/kg	335	301	11	40	
PCB-1254 (Aroclor 1254)	ug/kg	338	303	11	40	
PCB-1260 (Aroclor 1260)	ug/kg	161	141	14	40	
Decachlorobiphenyl (S)	%	97	99	2		
Tetrachloro-m-xylene (S)	%	85	91	6		

SAMPLE DUPLICATE: 1673133

Parameter	Units	40157830003 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<34.1	<34.3		40	
PCB-1221 (Aroclor 1221)	ug/kg	<34.1	<34.3		40	
PCB-1232 (Aroclor 1232)	ug/kg	<34.1	<34.3		40	
PCB-1242 (Aroclor 1242)	ug/kg	<34.1	<34.3		40	
PCB-1248 (Aroclor 1248)	ug/kg	605	584	4	40	
PCB-1254 (Aroclor 1254)	ug/kg	440	425	4	40	
PCB-1260 (Aroclor 1260)	ug/kg	145J	145J		40	
Decachlorobiphenyl (S)	%	104	104	0		
Tetrachloro-m-xylene (S)	%	94	95	2		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

QC Batch: 285708 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157698006, 40157698007, 40157698012, 40157698013, 40157698014, 40157698015, 40157698016

METHOD BLANK: 1671710 | Matrix: Tissue
Associated Lab Samples: 40157698006, 40157698007, 40157698012, 40157698013, 40157698014, 40157698015, 40157698016

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	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

QC Batch: 285997 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40157698008, 40157698009, 40157698010, 40157698011

METHOD BLANK: 1673137 Matrix: Tissue
Associated Lab Samples: 40157698008, 40157698009, 40157698010, 40157698011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/13/18 06:30	

MATRIX SPIKE SAMPLE: 1683130

Parameter	Units	40157698011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.26		0.25			

SAMPLE DUPLICATE: 1673139

Parameter	Units	40157492016 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.32	0.30	9	40	

SAMPLE DUPLICATE: 1673141

Parameter	Units	40157698011 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.26	0.20	28	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

QC Batch: 286205 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40157698001, 40157698002, 40157698003, 40157698004, 40157698005

METHOD BLANK: 1674431 Matrix: Tissue
Associated Lab Samples: 40157698001, 40157698002, 40157698003, 40157698004, 40157698005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/17/18 06:56	

MATRIX SPIKE SAMPLE: 1683145

Parameter	Units	40157492019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.36		0.31			

SAMPLE DUPLICATE: 1674434

Parameter	Units	40157492019 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.36	0.29	22	40	

SAMPLE DUPLICATE: 1674435

Parameter	Units	40157698001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.41	0.36	10	40	

SAMPLE DUPLICATE: 1674436

Parameter	Units	40157830003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.45	0.47	4	40	

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

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(920)469-2436

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157698001	**TD4-170615-01-SMB-05**	EPA 3541	285995	EPA 8082A Mod	286227
40157698002	**ND5-170615-01-SMB-06**	EPA 3541	285995	EPA 8082A Mod	286227
40157698003	**ND5-170615-01-SMB-05**	EPA 3541	285995	EPA 8082A Mod	286227
40157698004	**ND5-170615-01-SMB-04**	EPA 3541	285995	EPA 8082A Mod	286227
40157698005	**ND5-170615-01-SMB-03**	EPA 3541	285995	EPA 8082A Mod	286227
40157698006	**ND5-170615-01-SMB-02**	EPA 3541	285569	EPA 8082A Mod	285728
40157698007	**ND5-170615-01-SMB-01**	EPA 3541	285569	EPA 8082A Mod	285728
40157698008	**ND5-170615-01-LMB-04**	EPA 3541	285844	EPA 8082A Mod	286018
40157698009	**ND5-170615-01-LMB-03**	EPA 3541	285844	EPA 8082A Mod	286018
40157698010	**ND5-170615-01-LMB-02**	EPA 3541	285844	EPA 8082A Mod	286018
40157698011	**ND5-170615-01-LMB-01**	EPA 3541	285844	EPA 8082A Mod	286018
40157698012	**ND3-170615-01-SMB-05**	EPA 3541	285569	EPA 8082A Mod	285728
40157698013	**ND3-170615-01-SMB-04**	EPA 3541	285569	EPA 8082A Mod	285728
40157698014	**ND3-170615-01-SMB-03**	EPA 3541	285569	EPA 8082A Mod	285728
40157698015	**ND3-170615-01-SMB-02**	EPA 3541	285569	EPA 8082A Mod	285728
40157698016	**ND3-170615-01-SMB-01**	EPA 3541	285569	EPA 8082A Mod	285728
40157698001	**TD4-170615-01-SMB-05**	Pace Gender Typing	285042		
40157698002	**ND5-170615-01-SMB-06**	Pace Gender Typing	285042		
40157698003	**ND5-170615-01-SMB-05**	Pace Gender Typing	285042		
40157698004	**ND5-170615-01-SMB-04**	Pace Gender Typing	285042		
40157698005	**ND5-170615-01-SMB-03**	Pace Gender Typing	285042		
40157698006	**ND5-170615-01-SMB-02**	Pace Gender Typing	285042		
40157698007	**ND5-170615-01-SMB-01**	Pace Gender Typing	285042		
40157698008	**ND5-170615-01-LMB-04**	Pace Gender Typing	285042		
40157698009	**ND5-170615-01-LMB-03**	Pace Gender Typing	285042		
40157698010	**ND5-170615-01-LMB-02**	Pace Gender Typing	285042		
40157698011	**ND5-170615-01-LMB-01**	Pace Gender Typing	285042		
40157698012	**ND3-170615-01-SMB-05**	Pace Gender Typing	285042		
40157698013	**ND3-170615-01-SMB-04**	Pace Gender Typing	285042		
40157698014	**ND3-170615-01-SMB-03**	Pace Gender Typing	285042		
40157698015	**ND3-170615-01-SMB-02**	Pace Gender Typing	285042		
40157698016	**ND3-170615-01-SMB-01**	Pace Gender Typing	285042		
40157698001	**TD4-170615-01-SMB-05**	Pace Lipid	286205		
40157698002	**ND5-170615-01-SMB-06**	Pace Lipid	286205		
40157698003	**ND5-170615-01-SMB-05**	Pace Lipid	286205		
40157698004	**ND5-170615-01-SMB-04**	Pace Lipid	286205		
40157698005	**ND5-170615-01-SMB-03**	Pace Lipid	286205		
40157698006	**ND5-170615-01-SMB-02**	Pace Lipid	285708		
40157698007	**ND5-170615-01-SMB-01**	Pace Lipid	285708		
40157698008	**ND5-170615-01-LMB-04**	Pace Lipid	285997		
40157698009	**ND5-170615-01-LMB-03**	Pace Lipid	285997		
40157698010	**ND5-170615-01-LMB-02**	Pace Lipid	285997		
40157698011	**ND5-170615-01-LMB-01**	Pace Lipid	285997		
40157698012	**ND3-170615-01-SMB-05**	Pace Lipid	285708		
40157698013	**ND3-170615-01-SMB-04**	Pace Lipid	285708		

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157698

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157698014	**ND3-170615-01-SMB-03**	Pace Lipid	285708		
40157698015	**ND3-170615-01-SMB-02**	Pace Lipid	285708		
40157698016	**ND3-170615-01-SMB-01**	Pace Lipid	285708		

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40157698

559

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170615-T11-02
Sample Custodian: MCS
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	TD4-170615-01	TD4-170615-01-SMB-05	6/15/2017	16:04	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
002	ND5-170615-01	ND5-170615-01-SMB-06	6/15/2017	12:56	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	ND5-170615-01	ND5-170615-01-SMB-05	6/15/2017	12:51	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	ND5-170615-01	ND5-170615-01-SMB-04	6/15/2017	12:48	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	ND5-170615-01	ND5-170615-01-SMB-03	6/15/2017	12:45	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	ND5-170615-01	ND5-170615-01-SMB-02	6/15/2017	12:44	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	ND5-170615-01	ND5-170615-01-SMB-01	6/15/2017	12:40	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	ND5-170615-01	ND5-170615-01-LMB-04	6/15/2017	12:54	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	ND5-170615-01	ND5-170615-01-LMB-03	6/15/2017	12:53	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	ND5-170615-01	ND5-170615-01-LMB-02	6/15/2017	12:49	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

1- ziploc A

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature VIA FEDEX	Signature	Signature	Signature
Print Name Jim Ryan	Print Name D. Bubrah	Print Name D. BUTTS	Print Name	Print Name	Print Name
Company Anchor QEA	Company PACE T: -0.4, -0.3	Company PACE	Company	Company Fedex	Company Pace
Date/Time 6/16/17 8:00	Date/Time 6/16/17 8:00	Date/Time 9/28/17 16:00	Date/Time	Date/Time 9/29/17 1000	Date/Time 9/29/17 1000

Date Printed: 6/15/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** *TPCB-LIPD-PEST-MERCURY* **Page 1 of 2**

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170615-T11-02
Sample Custodian: MCS
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
011	ND5-170615-01	ND5-170615-01-LMB-01	6/15/2017	12:42	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziploc A
012	ND3-170615-01	ND3-170615-01-SMB-05	6/15/2017	10:18	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	ND3-170615-01	ND3-170615-01-SMB-04	6/15/2017	10:16	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	ND3-170615-01	ND3-170615-01-SMB-03	6/15/2017	10:14	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	ND3-170615-01	ND3-170615-01-SMB-02	6/15/2017	10:12	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
016	ND3-170615-01	ND3-170615-01-SMB-01	6/15/2017	10:09	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature VIA FED EX →	Signature	Signature	Signature
Print Name Jim Ryan	Print Name D. Bubnich	Print Name A. Bitting	Print Name	Print Name	Print Name
Company Anchor QEA	Company PACE T=-0.4-0.3	Company PACE	Company	Company FedEx	Company Pace
Date/Time 6/16/17 8:00	Date/Time 6/16/17 8:00	Date/Time 9/28/17 16:00	Date/Time	Date/Time 9/29/17 1000	Date/Time 9/29/17 1000

Date Printed: 6/15/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY

Pace Analytical™

Sample Condition Upon Receipt

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

Project #: WO#: 40157698

40157698

Client Name: Anchor

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

Tracking #: 4099947041608/4099947041619

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

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

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

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

Cooler Temperature Uncorr: 1.0 /Corr: 1.0 **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: 9/29/17
Initials: [illegible]

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AL for TN **Date:** 9-29-17

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40157698
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

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

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

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

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

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

D. Spikes:
1. **Lab Control Spike (LCS):** The control spikes were fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Sample ND5-170615-01-LMB-01 was designated as the parent sample for the MS for extraction batch 285844 and one portion of the sample was fortified with Aroclor 1242. The QAPP specified accuracy criteria were met.
3. **Matrix Spike (MS):** Batch QC was analyzed with extraction batches 285569 and 285995 and one portion of each parent sample was fortified with Aroclor 1242. The QAPP specified accuracy criteria were met with the following exception. MS 1671101 required a 1:5 dilution to bring non-fortified Aroclors within instrument calibration range. The QAPP specified accuracy criteria were not met; the “M1” data qualifier was applied to MS 1671101 on the final report.

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

F. Sample Duplicate: Samples ND5-170615-01-LMB-01 and TD4-170615-01-SMB-05 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
TD4-170615-01-SMB-05	To bring Aroclors within instrument calibration range
ND5-170615-01-SMB-06	To bring Aroclors within instrument calibration range
ND5-170615-01-SMB-05	To bring Aroclors within instrument calibration range
ND5-170615-01-SMB-04	To bring Aroclors within instrument calibration range
ND5-170615-01-SMB-03	To bring Aroclors within instrument calibration range
ND5-170615-01-SMB-02	To bring Aroclors within instrument calibration range
ND5-170615-01-SMB-01	To bring Aroclors within instrument calibration range
ND5-170615-01-LMB-04	To bring Aroclors within instrument calibration range

Sample ID	Reason for dilution
ND5-170615-01-LMB-03	To bring Aroclors within instrument calibration range
ND5-170615-01-LMB-02	To bring Aroclors within instrument calibration range
ND3-170615-01-SMB-04	To bring Aroclors within instrument calibration range
ND3-170615-01-SMB-03	To bring Aroclors within instrument calibration range
ND3-170615-01-SMB-01	To bring Aroclors within instrument calibration range

H. **Reanalysis:** Sample ND5-170615-01-SMB-05 was initially analyzed diluted based on screener data. Upon analysis, the sample was found to require reanalysis at a different dilution to bring individual Aroclor peaks within instrument calibration range. The sample was reported with the "1q" data qualifier on the final report to note the occurrence.

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

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: 05/16/18

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.: 40157698 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1671063	1671063BLANK	91	74
1671064	1671064LCS	94	84
40157698006	ND5-170615-01-SMB-02	125	100
40157698007	ND5-170615-01-SMB-01	103	88
40157698012	ND3-170615-01-SMB-05	90	81
40157698013	ND3-170615-01-SMB-04	100	85
40157698014	ND3-170615-01-SMB-03	102	89
40157698015	ND3-170615-01-SMB-02	89	79
40157698016	ND3-170615-01-SMB-01	96	79

	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.: 40157698 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1672269	1672269BLANK	98	80
1672270	1672270LCS	95	80
1672272	1672272MS	96	85
1672273	1672273DUP	92	83
40157698008	ND5-170615-01-LMB-04	95	82
40157698009	ND5-170615-01-LMB-03	98	87
40157698010	ND5-170615-01-LMB-02	0*	0*
40157698011	ND5-170615-01-LMB-01	95	83

	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.: 40157698 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1673128	1673128BLANK	85	73
1673129	1673129LCS	84	76
1673132	1673132DUP	99	91
40157698001	TD4-170615-01-SMB-05	97	85
40157698002	ND5-170615-01-SMB-06	106	86
40157698003	ND5-170615-01-SMB-05	101	85
40157698004	ND5-170615-01-SMB-04	106	94
40157698005	ND5-170615-01-SMB-03	104	88

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

* Values outside of QC Limits

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/10/2018

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.: 40157698

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 LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/12/2018

Instrument: 40GCSJ

Lab File ID: 041318.B\041318010.D

Lab Sample ID: 1672270LCS

Date Analyzed (1): 04/13/2018

LCS Lot No: 192096

SDG No.: 40157698

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	236	95	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/13/2018

Instrument: 40GCSJ

Lab File ID: 041718.B\041718009.D

Lab Sample ID: 1673129LCS

Date Analyzed (1): 04/17/2018

LCS Lot No: 192096

SDG No.: 40157698

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	207	83	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: 04/10/2018

Instrument: 40GCSJ

Parent Sample ID: 40157488006

Matrix Spike - Sample No: 1671101MS

Date Analyzed (1): 04/11/2018

Lab File ID: 041118.B\041118010.D

SDG No.: 40157698

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 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/12/2018

Instrument: 40GCSJ

Parent Sample ID: ND5-170615-01-LMB-01

Matrix Spike - Sample No: 1672272MS

Date Analyzed (1): 04/13/2018

Lab File ID: 041318.B\041318025.D

SDG No.: 40157698

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	289	116	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: 04/13/2018

Instrument: 40GCSJ

Parent Sample ID: 40157492019

Matrix Spike - Sample No: 1673130MS

Date Analyzed (1): 04/17/2018

Lab File ID: 041718.B\041718012.D

SDG No.: 40157698

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<11.2	280	112	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/10/2018

Instrument 40GCSJ

Lab Sample ID: 40157488006

Duplicate Sample No: 40157488006DUP

Date Analyzed: 04/11/2018

Lab File ID: 041118.B\041118011.D

SDG No.: 40157698

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.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/12/2018

Instrument 40GCSJ

Lab Sample ID: 40157492016

Duplicate Sample No: 40157492016DUP

Date Analyzed: 04/13/2018

Lab File ID: 041318.B\041318020.D

SDG No.: 40157698

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)	76.7	76.0	1	0-40
PCB-1254 (Aroclor 1254)	49.7J	48.5J		0-40
PCB-1260 (Aroclor 1260)	31.3J	30.9J		0-40

RPD: 0 out of 1 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/12/2018

Instrument 40GCSJ

Lab Sample ID: ND5-170615-01-LMB-01

Duplicate Sample No: 40157698011DUP

Date Analyzed: 04/13/2018

Lab File ID: 041318.B\041318026.D

SDG No.: 40157698

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)	33.3J	29.9J		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)	179	157	13	0-40
PCB-1254 (Aroclor 1254)	107	92.8	15	0-40
PCB-1260 (Aroclor 1260)	50.4	42.4J		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: 04/13/2018

Instrument 40GCSJ

Lab Sample ID: 40157492019

Duplicate Sample No: 40157492019DUP

Date Analyzed: 04/17/2018

Lab File ID: 041718.B\041718013.D

SDG No.: 40157698

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.2	<11.4		0-40
PCB-1221 (Aroclor 1221)	42.4J	46.5J		0-40
PCB-1232 (Aroclor 1232)	<11.2	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.2	<11.4		0-40
PCB-1248 (Aroclor 1248)	110	113	3	0-40
PCB-1254 (Aroclor 1254)	42.6J	43.2J		0-40
PCB-1260 (Aroclor 1260)	37.1J	36.9J		0-40

RPD: 0 out of 1 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/13/2018

Instrument 40GCSJ

Lab Sample ID: 40157830003

Duplicate Sample No: 40157830003DUP

Date Analyzed: 04/17/2018

Lab File ID: 041718.B\041718024.D

SDG No.: 40157698

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<34.1	<34.3		0-40
PCB-1221 (Aroclor 1221)	<34.1	<34.3		0-40
PCB-1232 (Aroclor 1232)	<34.1	<34.3		0-40
PCB-1242 (Aroclor 1242)	<34.1	<34.3		0-40
PCB-1248 (Aroclor 1248)	605	584	4	0-40
PCB-1254 (Aroclor 1254)	440	425	4	0-40
PCB-1260 (Aroclor 1260)	145J	145J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-3

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/13/2018

Instrument 40GCSJ

Lab Sample ID: TD4-170615-01-SMB-05

Duplicate Sample No: 40157698001DUP

Date Analyzed: 04/17/2018

Lab File ID: 041718.B\041718018.D

SDG No.: 40157698

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<22.8	<22.8		0-40
PCB-1221 (Aroclor 1221)	<22.8	<22.8		0-40
PCB-1232 (Aroclor 1232)	<22.8	<22.8		0-40
PCB-1242 (Aroclor 1242)	<22.8	<22.8		0-40
PCB-1248 (Aroclor 1248)	335	301	11	0-40
PCB-1254 (Aroclor 1254)	338	303	11	0-40
PCB-1260 (Aroclor 1260)	161	141	14	0-40

RPD: 0 out of 3 outside limits.

SAMPLE NO.

1671063BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157698 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
1671100DUP	1671100	041118.B\041118011.D	04/11/2018 16:23
ND5-170615-01-SMB-02	40157698006	041118.B\041118013.D	04/11/2018 16:54
ND5-170615-01-SMB-01	40157698007	041118.B\041118014.D	04/11/2018 17:10
ND3-170615-01-SMB-05	40157698012	041118.B\041118015.D	04/11/2018 17:26
ND3-170615-01-SMB-04	40157698013	041118.B\041118018.D	04/11/2018 18:14
ND3-170615-01-SMB-03	40157698014	041118.B\041118019.D	04/11/2018 18:30
ND3-170615-01-SMB-02	40157698015	041118.B\041118020.D	04/11/2018 18:45
ND3-170615-01-SMB-01	40157698016	041118.B\041118021.D	04/11/2018 19:01

SAMPLE NO.

1672269BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157698 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1672269

Lab File ID: 041318.B\041318009.D Date Analyzed: 04/13/2018 Time:15:52

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1672270LCS	1672270	041318.B\041318010.D	04/13/2018 16:08
1672271DUP	1672271	041318.B\041318020.D	04/13/2018 18:46
ND5-170615-01-LMB-04	40157698008	041318.B\041318021.D	04/13/2018 19:02
ND5-170615-01-LMB-03	40157698009	041318.B\041318022.D	04/13/2018 19:18
ND5-170615-01-LMB-02	40157698010	041318.B\041318023.D	04/13/2018 19:34
ND5-170615-01-LMB-01	40157698011	041318.B\041318024.D	04/13/2018 19:50
1672272MS	1672272	041318.B\041318025.D	04/13/2018 20:06
1672273DUP	1672273	041318.B\041318026.D	04/13/2018 20:22

SAMPLE NO.

1673128BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157698 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1673128

Lab File ID: 041718.B\041718008.D Date Analyzed: 04/17/2018 Time:12:59

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1673129LCS	1673129	041718.B\041718009.D	04/17/2018 13:15
1673131DUP	1673131	041718.B\041718013.D	04/17/2018 14:18
TD4-170615-01-SMB-05	40157698001	041718.B\041718015.D	04/17/2018 14:50
1673132DUP	1673132	041718.B\041718018.D	04/17/2018 15:37
ND5-170615-01-SMB-06	40157698002	041718.B\041718019.D	04/17/2018 15:53
ND5-170615-01-SMB-04	40157698004	041718.B\041718021.D	04/17/2018 16:25
ND5-170615-01-SMB-03	40157698005	041718.B\041718022.D	04/17/2018 16:41
1673133DUP	1673133	041718.B\041718024.D	04/17/2018 17:12
ND5-170615-01-SMB-05	40157698003	041818.B\041818007.D	04/18/2018 14:01

SAMPLE NO.

TD4-170615-01-SMB-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/13/2018 07:19
Lab Sample ID: 40157698001
Date Analyzed: 04/17/2018 14:50
Lab File ID: 041718.B\041718015.D
Initial wt/vol: 9.9916 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)	<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)	335	
11097-69-1	PCB-1254 (Aroclor 1254)	338	
11096-82-5	PCB-1260 (Aroclor 1260)	161	
1336-36-3	PCB, Total	834	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718015.D
Lab Smp Id: 40157698001 Client Smp ID: TD4-170615-01-SMB-0
Inj Date : 17-APR-2018 14:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698001 x2,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
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	9.992	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	34446	23584	0.685	0.05		
2.485	5264148	4869539	0.925	9.04	$ 2 Tetrachloro-m-xylene	
2.787	17999	11775	0.654	0.03		
2.851	31656	21924	0.693	0.05		
2.975	10820	12168	1.125	0.01		
3.021	12100	11651	0.963	0.02		
3.056	57913	49471	0.854	0.09		
3.319	45617	46935	1.029	0.07		
3.344	69515	61024	0.878	0.11		
3.434	91415	83415	0.912	0.15		
3.519	127467	109136	0.856	0.21		
3.647	15121	13898	0.919	0.02		
3.731	120185	116783	0.972	0.20		
3.756	64318	51140	0.795	0.11		
3.814	218959	264949	1.210	0.37		
3.826	326878	296128	0.906	0.56		
3.939	167409	126526	0.756	0.28		
3.995	146396	130127	0.889	0.25		
4.058	83707	64741	0.773	0.14		
4.137	26472	18921	0.715	0.04		
4.215	1041994	940856	0.903	1.78		
4.261	1081452	1019517	0.943	1.85	6 Aroclor 1248	BA
4.292	1425376	1188778	0.834	2.44		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.416	393665	369566	0.939	0.67	
4.452	351463	313151	0.891	0.60	
4.546	840937	776486	0.923	1.44	6 Aroclor 1248
4.589	127684	119538	0.936	0.21	
4.618	99029	83462	0.843	0.17	
4.681	135582	115422	0.851	0.23	
4.734	182219	136239	0.748	0.31	
4.767	241938	224727	0.929	0.41	
4.813	854542	804158	0.941	1.46	6 Aroclor 1248
4.847	523405	499587	0.954	0.89	
4.879	1996850	1177677	0.590	3.42	6 Aroclor 1248
4.956	432154	356000	0.824	0.74	
5.036	686237	626986	0.914	1.17	6 Aroclor 1248
5.101	909037	790013	0.869	1.56	
5.161	1785166	1517375	0.850	3.06	7 Aroclor 1254
5.212	1616364	1406071	0.870	2.77	
5.283	178941	174584	0.976	0.30	
5.308	323749	264022	0.816	0.55	
5.362	529368	476295	0.900	0.90	
5.406	1204073	1101264	0.915	2.06	7 Aroclor 1254
5.446	1087616	913733	0.840	1.86	
5.477	145343	138898	0.956	0.24	
5.510	1735430	1516348	0.874	2.98	7 Aroclor 1254
5.577	144384	130281	0.902	0.24	
5.603	242414	207619	0.856	0.41	
5.675	722159	677316	0.938	1.24	
5.710	388503	298629	0.769	0.66	
5.742	553495	408433	0.738	0.95	
5.790	3240534	2460976	0.759	5.56	
5.885	339950	243219	0.715	0.58	
5.932	360241	306743	0.851	0.61	
5.994	799448	731186	0.915	1.37	
6.025	1440659	1234942	0.857	2.47	7 Aroclor 1254
6.055	2442597	2086927	0.854	4.19	
6.169	604512	425472	0.704	1.03	
6.227	250181	254469	1.017	0.42	
6.241	347799	289695	0.833	0.59	
6.300	3574956	2963169	0.829	6.14	7 Aroclor 1254
6.333	367953	344457	0.936	0.63	
6.374	178132	152733	0.857	0.30	
6.433	529306	445919	0.842	0.90	
6.510	1233065	1128050	0.915	2.11	
6.535	685353	633776	0.925	1.17	
6.560	332813	306604	0.921	0.57	
6.604	144581	121110	0.838	0.24	
6.660	76886	67362	0.876	0.13	
6.716	379308	321804	0.848	0.65	
6.758	454058	400926	0.883	0.77	
6.802	529501	482247	0.911	0.90	
6.839	287196	219717	0.765	0.49	
6.911	65060	60614	0.932	0.11	
6.943	284545	260272	0.915	0.48	
7.004	1348707	1213196	0.900	2.31	8 Aroclor 1260
7.034	131492	119548	0.909	0.22	
7.075	24875	23507	0.945	0.04	
7.121	44414	39014	0.878	0.07	
7.251	608448	545981	0.897	1.04	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.281	191862	173954	0.907	0.32	
7.389	580894	513155	0.883	0.99	
7.442	562597	495924	0.881	0.96	8 Aroclor 1260
7.552	35036	33606	0.959	0.06	
7.615	15758	10034	0.637	0.02	
7.690	154484	145802	0.944	0.26	
7.726	127902	110610	0.865	0.21	
7.800	90791	55576	0.612	0.15	
7.901	499987	426846	0.854	0.85	8 Aroclor 1260
7.960	53857	36651	0.681	0.09	
8.048	80757	68397	0.847	0.13	
8.274	363239	333336	0.918	0.62	
8.383	16977	12740	0.750	0.02	
8.453	10712	9361	0.874	0.01	
8.570	5322868	4534048	0.852	9.71	$ 12 Decachlorobiphenyl
8.729	20545	13998	0.681	0.03	
9.053	15804	12038	0.762	0.02	
9.169	45605	37437	0.821	0.07	
9.958	11795	9156	0.776	0.02	
	58221152	50073170		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718015.D
Lab Smp Id: 40157698001 Client Smp ID: TD4-170615-01-SMB-0
Inj Date : 17-APR-2018 14:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698001 x2,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
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	9.992	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			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5264148	0.04270	43			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1081452	0.46157	460	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	840937	0.20262	200	0.00- 20.00	77.76	BA
4.812	4.812	0.000	854542	0.42094	420	0.00- 20.00	79.02	BA
4.878	4.879	-0.001	1996850	0.39640	400	0.00- 20.00	184.65	BA
5.036	5.038	-0.002	686237	0.19123	190	0.00- 20.00	63.46	BA
Average of Peak Concentrations =					330			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1785165	0.34099	340	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1204072	0.27995	280	0.00- 20.00	67.45	BA
5.509	5.510	-0.001	1735430	0.22346	220	0.00- 20.00	97.21	BA
6.024	6.027	-0.003	1440659	0.29584	300	0.00- 20.00	80.70	BA
6.299	6.299	0.000	3574955	0.54939	550	0.00- 20.00	200.26	BA
Average of Peak Concentrations =					340			
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	1348707	0.13468	130	0.00- 20.00	37.73	BA
7.250	7.251	-0.001	608447	0.12730	130	0.00- 20.00	17.02	BA
7.442	7.443	-0.001	562596	0.19299	190	0.00- 20.00	15.74	BA
7.900	7.901	-0.001	499986	0.18948	190	0.00- 20.00	13.99	BA
Average of Peak Concentrations =					160			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5322868	0.04858	49			

QC Flag Legend

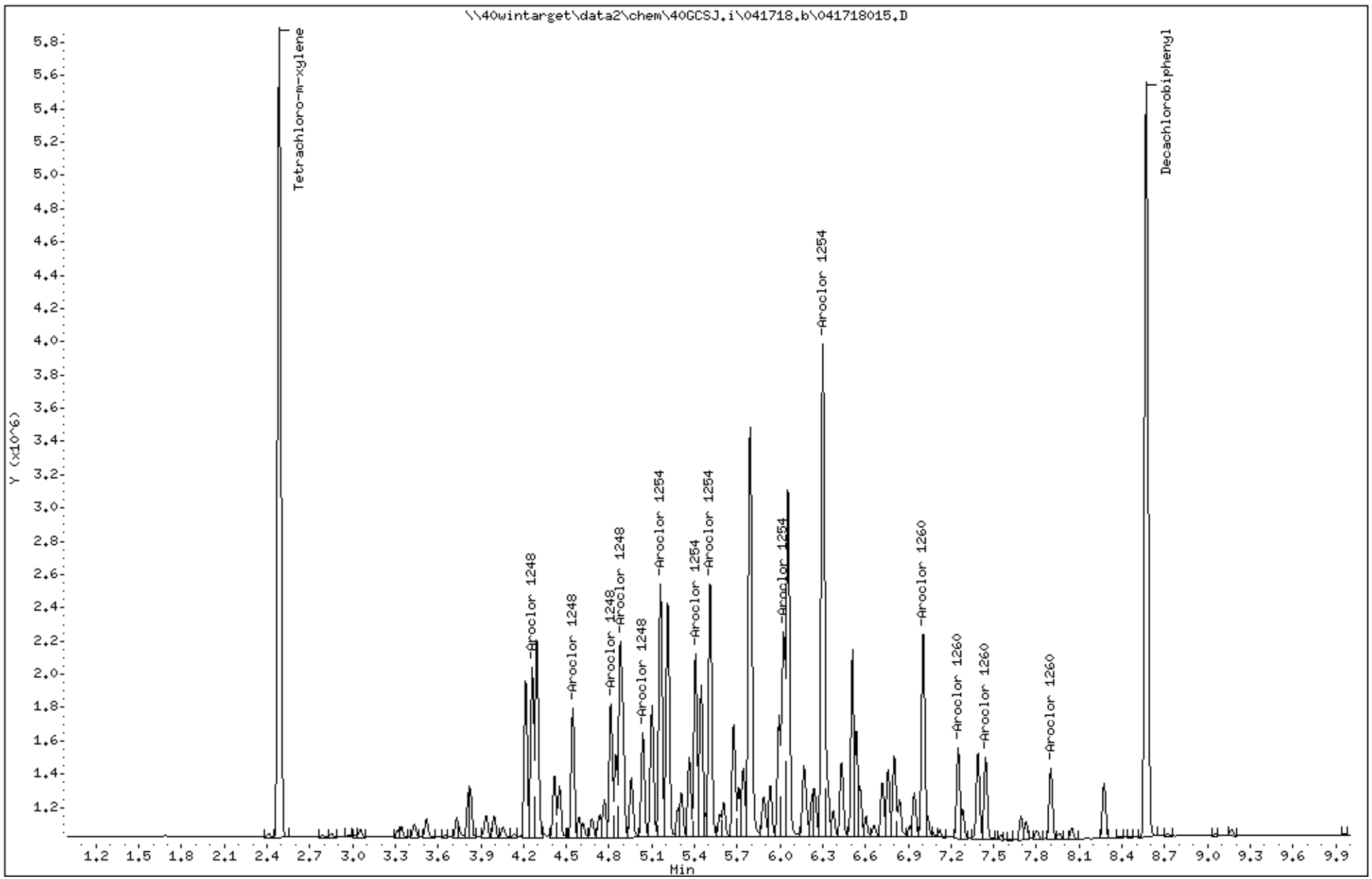
M - Compound response manually integrated.

Review Codes Legend

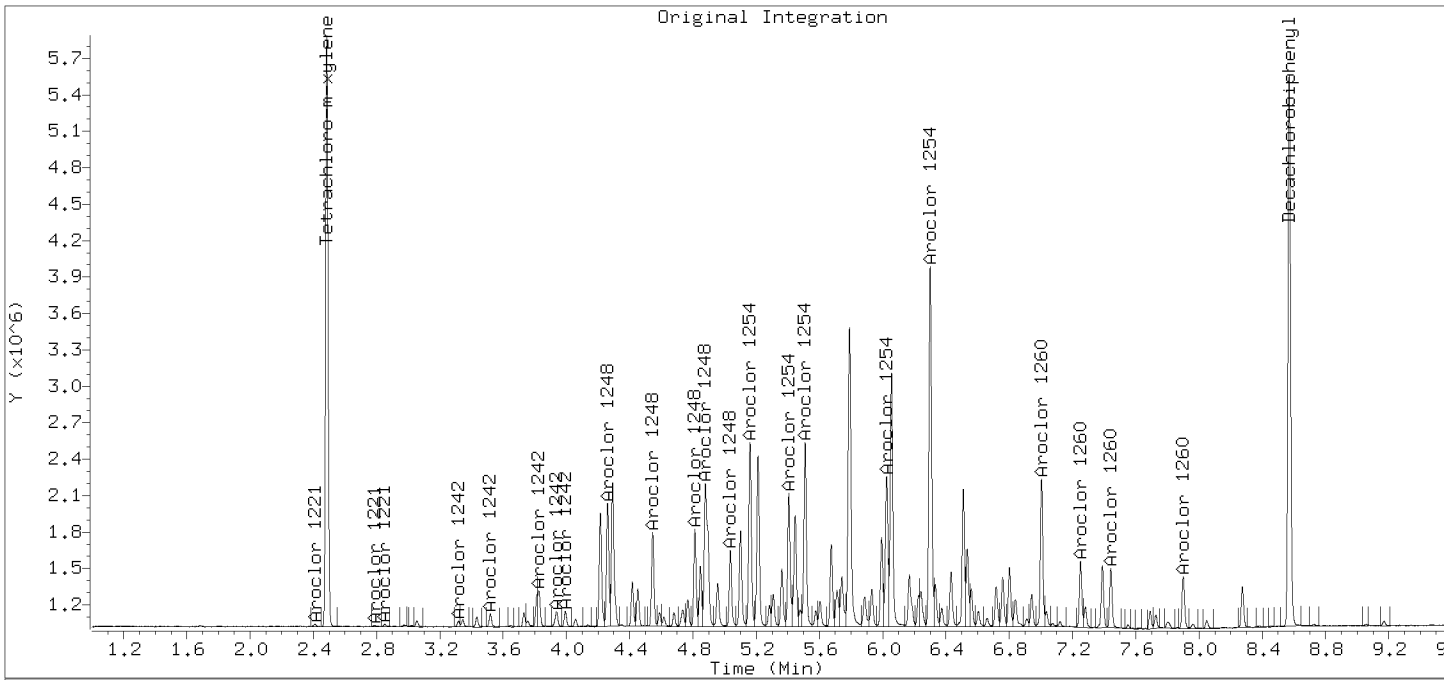
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

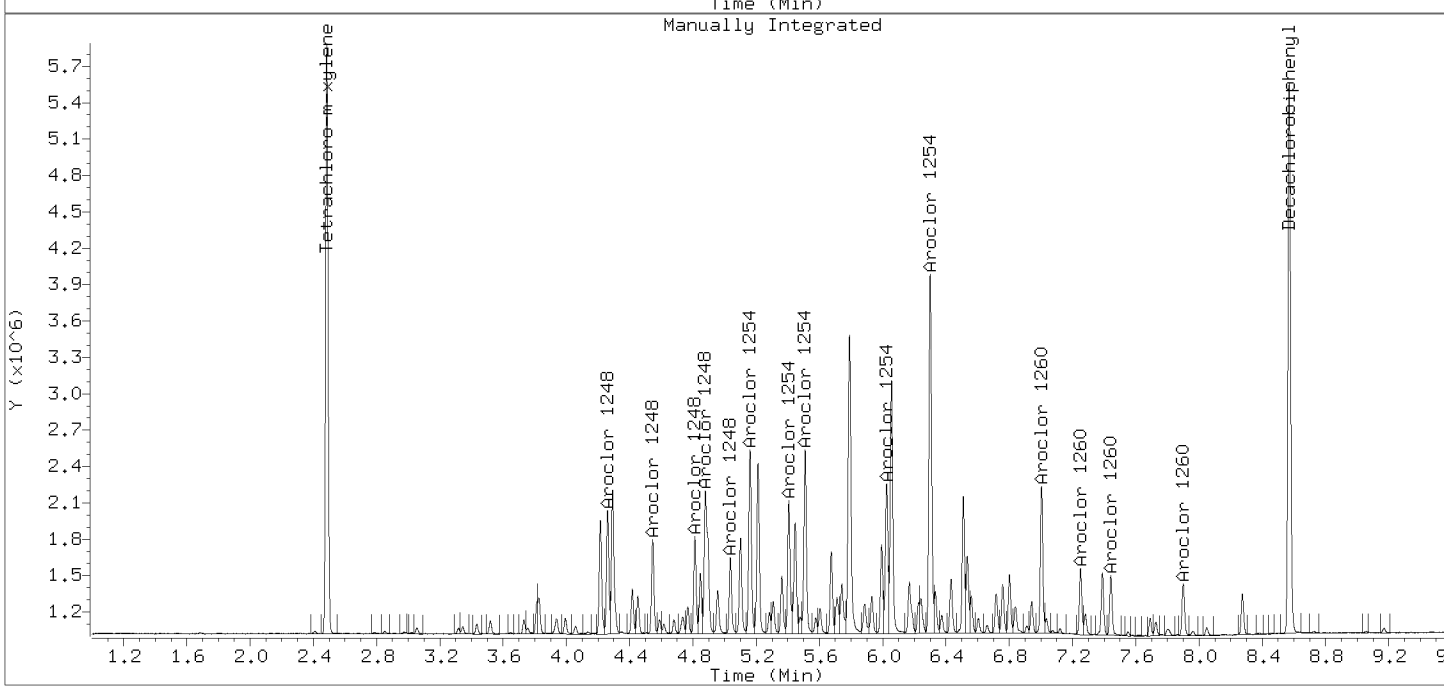
Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718015.D
Date : 17-APR-2018 14:50
Client ID: TD4-170615-01-SMB-0
Sample Info: 40157698001 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 14:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	45617	0	
Aroclor 1016	45617	0	
Aroclor 1016	45617	0	
Aroclor 1016	45617	0	
Aroclor 1016	45617	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	31656	0	
Aroclor 1232	31656	0	
Aroclor 1232	31656	0	
Aroclor 1232	31656	0	

Aroclor 1232	31656	0	
Aroclor 1242	45617	0	
Aroclor 1242	45617	0	
Aroclor 1242	45617	0	
Aroclor 1242	45617	0	
Aroclor 1242	45617	0	
Aroclor 1248	1067672	1081452	BA
Aroclor 1248	1067672	1081452	BA
Aroclor 1248	1067672	1081452	BA
Aroclor 1248	1067672	1081452	BA
Aroclor 1248	1067672	1081452	BA
Aroclor 1254	1778193	1785165	BA
Aroclor 1254	1778193	1785165	BA
Aroclor 1254	1778193	1785165	BA
Aroclor 1254	1778193	1785165	BA
Aroclor 1254	1778193	1785165	BA
Aroclor 1260	3581922	0	BA
Aroclor 1260	3581922	0	BA
Aroclor 1260	3581922	0	BA
Aroclor 1260	3581922	0	BA
Aroclor 1260	3581922	0	BA
Tetrachloro-m-xylene	5264148	5264148	
Decachlorobiphenyl	5322868	5322868	

==========

SAMPLE NO.

ND5-170615-01-SMB-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/13/2018 07:19
Lab Sample ID: 40157698002
Date Analyzed: 04/17/2018 15:53
Lab File ID: 041718.B\041718019.D
Initial wt/vol: 10.005 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)	<57.0	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)	710	
11097-69-1	PCB-1254 (Aroclor 1254)	699	
11096-82-5	PCB-1260 (Aroclor 1260)	552	
1336-36-3	PCB, Total	1960	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718019.D
Lab Smp Id: 40157698002 Client Smp ID: ND5-170615-01-SMB-0
Inj Date : 17-APR-2018 15:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698002 x5,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * 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	10.005	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.407	27169	18832	0.693	0.05		1 Aroclor 1221	
2.484	2109726	1946042	0.922	3.96	$	2 Tetrachloro-m-xylene	
2.787	13425	9385	0.699	0.02		1 Aroclor 1221	
2.851	14643	12800	0.874	0.02		1 Aroclor 1221	
3.053	36165	31160	0.862	0.06			
3.316	25896	23411	0.904	0.04			
3.343	32187	29835	0.927	0.06			
3.433	57285	55348	0.966	0.10			
3.519	62928	57365	0.912	0.11			
3.646	14004	10163	0.726	0.02			
3.732	114204	83721	0.733	0.21			
3.814	128861	156005	1.211	0.24			
3.825	193456	169266	0.875	0.36			
3.937	125653	105179	0.837	0.23			
3.993	98404	83362	0.847	0.18			
4.055	63151	49116	0.778	0.11			
4.135	17940	13147	0.733	0.03			
4.215	1019953	941404	0.923	1.91			
4.261	1105004	1036621	0.938	2.07		6 Aroclor 1248	BA
4.291	1647976	1378883	0.837	3.09			
4.347	36582	24094	0.659	0.06			
4.417	263759	247063	0.937	0.49			
4.452	278575	253506	0.910	0.52			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.545	785585	719042	0.915	1.47	6 Aroclor 1248
4.588	206875	184348	0.891	0.38	
4.616	67439	56088	0.832	0.12	
4.679	194081	173055	0.892	0.36	
4.736	255709	216279	0.846	0.48	
4.767	350635	320684	0.915	0.65	
4.812	629567	595968	0.947	1.18	6 Aroclor 1248
4.847	281890	265485	0.942	0.52	
4.893	1693630	899488	0.531	3.18	6 Aroclor 1248
4.956	602382	522920	0.868	1.13	
5.037	410432	366180	0.892	0.77	6 Aroclor 1248
5.101	1281835	1125674	0.878	2.40	
5.160	1892245	1568477	0.829	3.55	7 Aroclor 1254
5.211	1642331	1382754	0.842	3.08	
5.284	224752	216597	0.964	0.42	
5.307	435136	360381	0.828	0.81	
5.362	439563	391161	0.890	0.82	
5.406	1239710	1108111	0.894	2.33	7 Aroclor 1254
5.446	842821	701294	0.832	1.58	
5.477	237918	211203	0.888	0.44	
5.509	1773522	1522168	0.858	3.33	7 Aroclor 1254
5.576	222075	203192	0.915	0.41	
5.604	205520	174131	0.847	0.38	
5.674	1054005	991180	0.940	1.98	
5.709	479990	400536	0.834	0.90	
5.742	665176	524391	0.788	1.25	
5.789	3055639	2270328	0.743	5.74	
5.884	361476	275251	0.761	0.67	
5.931	523772	456258	0.871	0.98	
5.993	1085841	984365	0.907	2.04	
6.025	1175744	1033536	0.879	2.21	7 Aroclor 1254
6.056	2558156	2137783	0.836	4.80	
6.169	609794	346728	0.569	1.14	
6.227	209473	246780	1.178	0.39	
6.241	416944	312602	0.750	0.78	
6.301	3925892	3204267	0.816	7.86	8 Aroclor 1260
6.332	342466	311518	0.910	0.64	
6.373	156236	129437	0.828	0.29	
6.431	741674	658161	0.887	1.39	
6.509	1583325	1400310	0.884	2.97	
6.534	596828	565689	0.948	1.12	
6.559	355823	319166	0.897	0.66	
6.604	139842	112915	0.807	0.26	
6.660	74478	67467	0.906	0.14	
6.717	432093	393091	0.910	0.81	
6.758	546387	505920	0.926	1.02	
6.801	510977	448376	0.877	0.96	
6.838	299523	235584	0.787	0.56	
6.912	76353	68239	0.894	0.14	
6.942	280304	257831	0.920	0.52	
7.003	1411411	1277843	0.905	2.65	8 Aroclor 1260
7.034	164895	145354	0.881	0.30	
7.074	32433	31241	0.963	0.06	
7.121	61286	45124	0.736	0.11	
7.251	630178	569053	0.903	1.18	8 Aroclor 1260
7.280	208729	176053	0.843	0.39	
7.389	656901	577788	0.880	1.23	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.441	576807	513026	0.889	1.08	8 Aroclor 1260
7.553	45903	36892	0.804	0.08	
7.690	177112	157749	0.891	0.33	
7.725	126191	99139	0.786	0.23	
7.800	75214	47769	0.635	0.14	
7.899	504105	429077	0.851	0.94	8 Aroclor 1260
7.961	71606	43617	0.609	0.13	
8.049	76722	58772	0.766	0.14	
8.274	318414	278413	0.874	0.59	
8.454	10556	9471	0.897	0.01	
8.570	2313213	2037804	0.881	4.34	$ 12 Decachlorobiphenyl
8.715	11233	6103	0.543	0.02	
9.052	10830	8768	0.810	0.02	
9.172	38095	26310	0.691	0.07	
9.460	10377	5179	0.499	0.01	
	53193026	45258642		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718019.D
Lab Smp Id: 40157698002 Client Smp ID: ND5-170615-01-SMB-0
Inj Date : 17-APR-2018 15:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698002 x5,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * 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	10.005	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

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

2.484	2.484	0.000	2109726	0.01711	43			

---

3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1105004	0.47162	1200	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	785584	0.18928	470	0.00- 20.00	71.09	BA
4.812	4.812	0.000	629566	0.31012	770	0.00- 20.00	56.97	BA
4.892	4.879	0.013	1693630	0.33621	840	0.00- 20.00	153.27	BA
5.037	5.038	-0.001	410432	0.11437	280	0.00- 20.00	37.14	BA
Average of Peak Concentrations =					710			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1892244	0.36144	900	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1239709	0.28823	720	0.00- 20.00	65.52	BA
5.508	5.510	-0.002	1773522	0.22837	570	0.00- 20.00	93.73	BA
6.025	6.027	-0.002	1175744	0.24144	600	0.00- 20.00	62.13	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					700			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	3925892	0.44299	1100	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	1411411	0.14094	350	0.00- 20.00	35.95	BA
7.251	7.251	0.000	630178	0.13184	330	0.00- 20.00	16.05	BA
7.441	7.443	-0.002	576806	0.19787	490	0.00- 20.00	14.69	BA
7.899	7.901	-0.002	504105	0.19104	480	0.00- 20.00	12.84	BA
Average of Peak Concentrations =					550			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2313212	0.02111	53			

QC Flag Legend

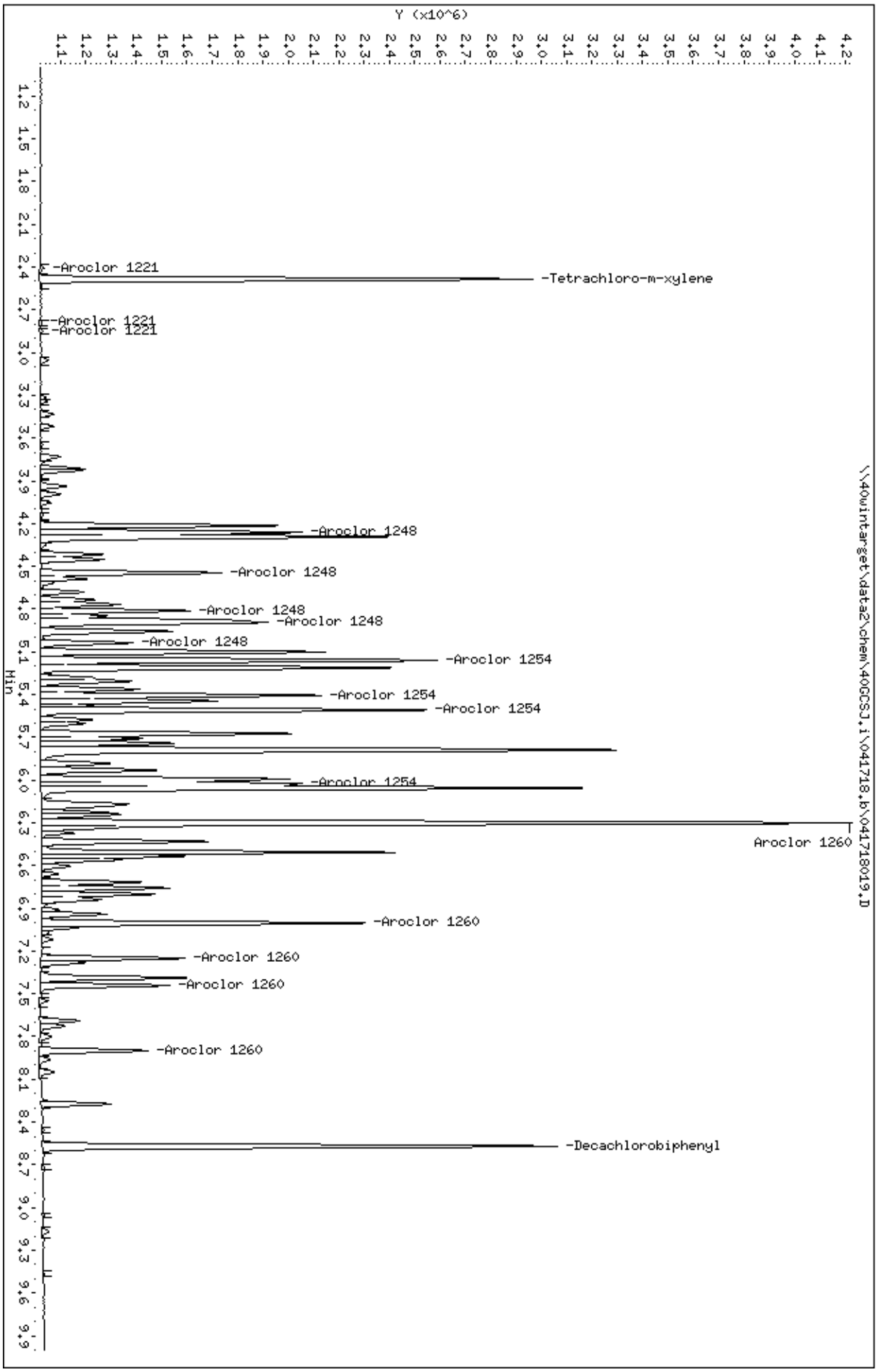
M - Compound response manually integrated.

Review Codes Legend

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

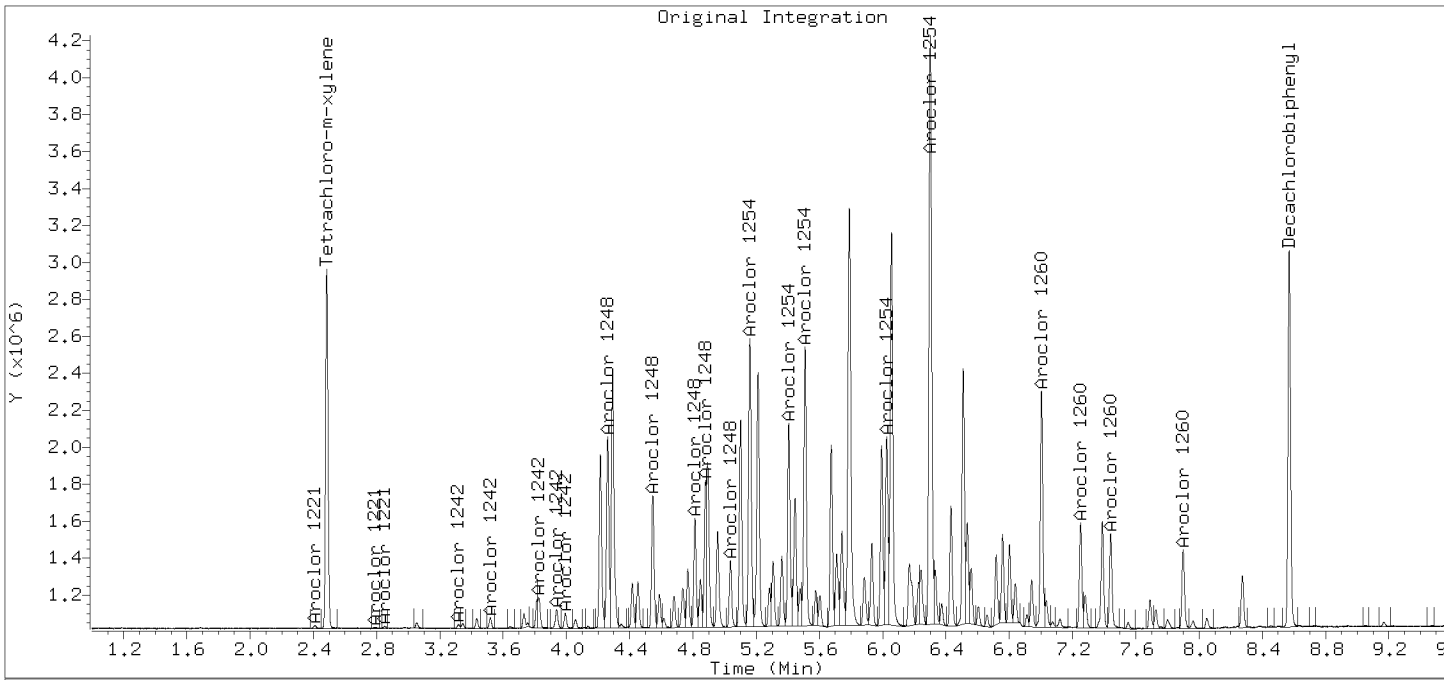
Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718019.D
Date : 17-APR-2018 15:53
Client ID: ND5-170615-01-SMB-0
Sample Info: 40157698002 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

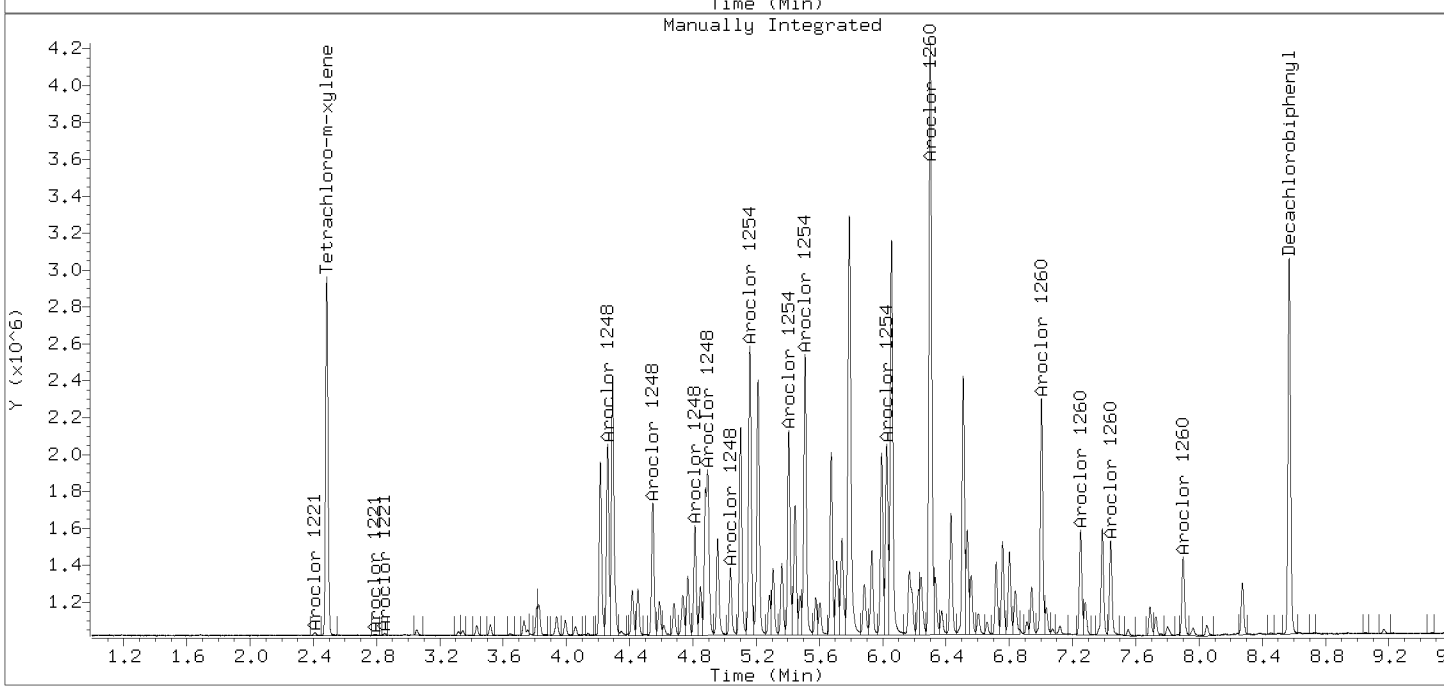
Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Page 6

Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 15:53 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	25896	0	
Aroclor 1016	25896	0	
Aroclor 1016	25896	0	
Aroclor 1016	25896	0	
Aroclor 1016	25896	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	14643	0	
Aroclor 1232	14643	0	
Aroclor 1232	14643	0	
Aroclor 1232	14643	0	

Aroclor 1232	14643	0	
Aroclor 1242	25896	0	
Aroclor 1242	25896	0	
Aroclor 1242	25896	0	
Aroclor 1242	25896	0	
Aroclor 1242	25896	0	
Aroclor 1248	1097477	1105004	BA
Aroclor 1248	1097477	1105004	BA
Aroclor 1248	1097477	1105004	BA
Aroclor 1248	1097477	1105004	BA
Aroclor 1248	1097477	1105004	BA
Aroclor 1254	1863926	1892244	BA
Aroclor 1254	1863926	1892244	BA
Aroclor 1254	1863926	1892244	BA
Aroclor 1254	1863926	1892244	BA
Aroclor 1254	1863926	1892244	BA
Aroclor 1260	3870448	3925892	BA
Aroclor 1260	3870448	3925892	BA
Aroclor 1260	3870448	3925892	BA
Aroclor 1260	3870448	3925892	BA
Aroclor 1260	3870448	3925892	BA
Tetrachloro-m-xylene	2109726	2109726	
Decachlorobiphenyl	2313212	2313212	

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SAMPLE NO.

ND5-170615-01-SMB-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/13/2018 07:19
Lab Sample ID: 40157698003
Date Analyzed: 04/18/2018 14:01
Lab File ID: 041818.B\041818007.D
Initial wt/vol: 10.0159 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)	116	J
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)	592	
11097-69-1	PCB-1254 (Aroclor 1254)	454	
11096-82-5	PCB-1260 (Aroclor 1260)	245	
1336-36-3	PCB, Total	1410	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818007.D
Lab Smp Id: 40157698003 Client Smp ID: ND5-170615-01-SMB-0
Inj Date : 18-APR-2018 14:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698003 x3,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 19-Apr-2018 10:59 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7
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	10.016	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.411	129857	101497	0.782	0.22		1 Aroclor 1221	BA
2.485	3510134	3277681	0.934	6.14	$	2 Tetrachloro-m-xylene	BA
2.684	23153	16563	0.715	0.04		1 Aroclor 1221	BA
2.788	32312	24035	0.744	0.05		1 Aroclor 1221	BA
2.852	87959	70289	0.799	0.15		1 Aroclor 1221	BA
2.972	18935	10279	0.543	0.03			
3.055	289129	259320	0.897	0.50			
3.316	168423	159374	0.946	0.29			
3.344	187591	173493	0.925	0.32			
3.434	463051	430046	0.929	0.81			
3.519	330819	296097	0.895	0.57			
3.645	59813	52472	0.877	0.10			
3.732	345091	335071	0.971	0.60			
3.756	133517	124993	0.936	0.23			
3.813	968505	624970	0.645	1.69			
3.939	366529	320769	0.875	0.64			
3.994	233823	215122	0.920	0.40			
4.058	173455	141097	0.813	0.30			
4.135	31045	29055	0.936	0.05			
4.215	1852208	1643694	0.887	3.24			
4.261	1759627	1676182	0.953	3.08		6 Aroclor 1248	BA
4.292	2205494	1841988	0.835	3.86			
4.349	71308	56561	0.793	0.12			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	410186	397597	0.969	0.71	
4.452	461470	421536	0.913	0.80	
4.546	1196825	1114763	0.931	2.09	6 Aroclor 1248
4.589	228204	210523	0.923	0.39	
4.618	118803	98544	0.829	0.20	
4.680	200465	179949	0.898	0.35	
4.736	242834	202618	0.834	0.42	
4.768	397325	361190	0.909	0.69	
4.813	779661	744113	0.954	1.36	6 Aroclor 1248
4.848	486139	472718	0.972	0.85	
4.895	2018759	1041887	0.516	3.53	6 Aroclor 1248
4.957	675085	586840	0.869	1.18	
5.037	549445	501254	0.912	0.96	6 Aroclor 1248
5.102	1234476	1085628	0.879	2.16	
5.161	1698383	1416289	0.834	2.97	7 Aroclor 1254
5.212	1396457	1199196	0.859	2.44	
5.282	171287	177187	1.034	0.30	
5.306	401952	328676	0.818	0.70	
5.363	448770	408463	0.910	0.78	
5.406	1141460	1023934	0.897	1.99	7 Aroclor 1254
5.448	746871	611953	0.819	1.30	
5.478	192689	177026	0.919	0.33	
5.509	1913832	1672528	0.874	3.35	7 Aroclor 1254
5.577	150266	133567	0.889	0.26	
5.604	224816	199417	0.887	0.39	
5.675	785992	729727	0.928	1.37	
5.708	398022	324423	0.815	0.69	
5.742	512092	402192	0.785	0.89	
5.789	2628588	1990516	0.757	4.60	
5.884	299749	230459	0.769	0.52	
5.931	376710	314623	0.835	0.65	
5.993	760011	695324	0.915	1.33	
6.026	1056295	941831	0.892	1.85	7 Aroclor 1254
6.055	2022421	1752666	0.867	3.54	
6.169	480793	301649	0.627	0.84	
6.228	163066	188245	1.154	0.28	
6.242	309159	239506	0.775	0.54	
6.301	3016873	2469847	0.819	5.28	7 Aroclor 1254
6.333	276476	245763	0.889	0.48	
6.373	131588	108667	0.826	0.23	
6.432	499542	435776	0.872	0.87	
6.510	1181145	1067027	0.903	2.06	
6.535	490963	456754	0.930	0.85	
6.560	296223	266832	0.901	0.51	
6.605	102564	87098	0.849	0.17	
6.659	58181	54733	0.941	0.10	
6.718	329295	291859	0.886	0.57	
6.759	405595	365480	0.901	0.71	
6.802	406125	355479	0.875	0.71	
6.839	255739	195767	0.765	0.44	
6.912	59293	58902	0.993	0.10	
6.943	214587	198373	0.924	0.37	
7.004	1175768	1043909	0.888	2.05	8 Aroclor 1260
7.035	122763	116405	0.948	0.21	
7.073	20570	20819	1.012	0.03	
7.122	50055	41653	0.832	0.08	
7.251	551394	491498	0.891	0.96	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.281	184180	152195	0.826	0.32	
7.389	617468	528254	0.856	1.08	
7.442	606169	531345	0.877	1.06	8 Aroclor 1260
7.552	43616	33541	0.769	0.07	
7.690	163668	153864	0.940	0.28	
7.727	154221	134951	0.875	0.27	
7.801	81257	59381	0.731	0.14	
7.863	12094	9861	0.815	0.02	
7.899	566986	499943	0.882	0.99	8 Aroclor 1260
7.961	63416	42440	0.669	0.11	
8.048	28488	20939	0.735	0.04	
8.275	469216	421346	0.898	0.82	
8.452	12280	11527	0.939	0.02	
8.570	3683946	3169405	0.860	6.91	$ 12 Decachlorobiphenyl
9.169	39516	35728	0.904	0.06	
	57092394	48936566		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818007.D
Lab Smp Id: 40157698003 Client Smp ID: ND5-170615-01-SMB-0
Inj Date : 18-APR-2018 14:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698003 x3,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 19-Apr-2018 10:59 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7
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	10.016	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.410	2.407	0.003	129857	0.23703	350	0.00- 20.00	0.00	BA
2.684	2.688	-0.004	23153	0.01674	25	0.00- 20.00	0.00	BA
2.787	2.789	-0.002	32311	0.02922	44	0.00- 20.00	0.00	BA
2.852	2.851	0.001	87958	0.02702	40	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					120			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	3510134	0.02847	43		(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	1759626	0.75102	1100	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	1196825	0.28837	430	0.00- 20.00	68.02	BA
4.812	4.812	0.000	779661	0.38405	580	0.00- 20.00	44.31	BA
4.894	4.879	0.015	2018758	0.40075	600	0.00- 20.00	114.73	BA
5.036	5.038	-0.002	549444	0.15311	230	0.00- 20.00	31.23	BA
Average of Peak Concentrations =					590			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1698383	0.32441	480	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1141459	0.26539	400	0.00- 20.00	67.21	BA
5.509	5.510	-0.001	1913832	0.24644	370	0.00- 20.00	112.69	BA
6.025	6.027	-0.002	1056295	0.21691	320	0.00- 20.00	62.19	BA
6.300	6.299	0.001	3016873	0.46363	690	0.00- 20.00	177.63	BA
Average of Peak Concentrations =					450			
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	1175768	0.11741	180	0.00- 20.00	38.97	BA
7.250	7.251	-0.001	551393	0.11536	170	0.00- 20.00	18.28	BA
7.441	7.443	-0.002	606169	0.20794	310	0.00- 20.00	20.09	BA
7.899	7.901	-0.002	566986	0.21487	320	0.00- 20.00	18.79	BA
Average of Peak Concentrations =					240			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3683945	0.03362	50			

QC Flag Legend

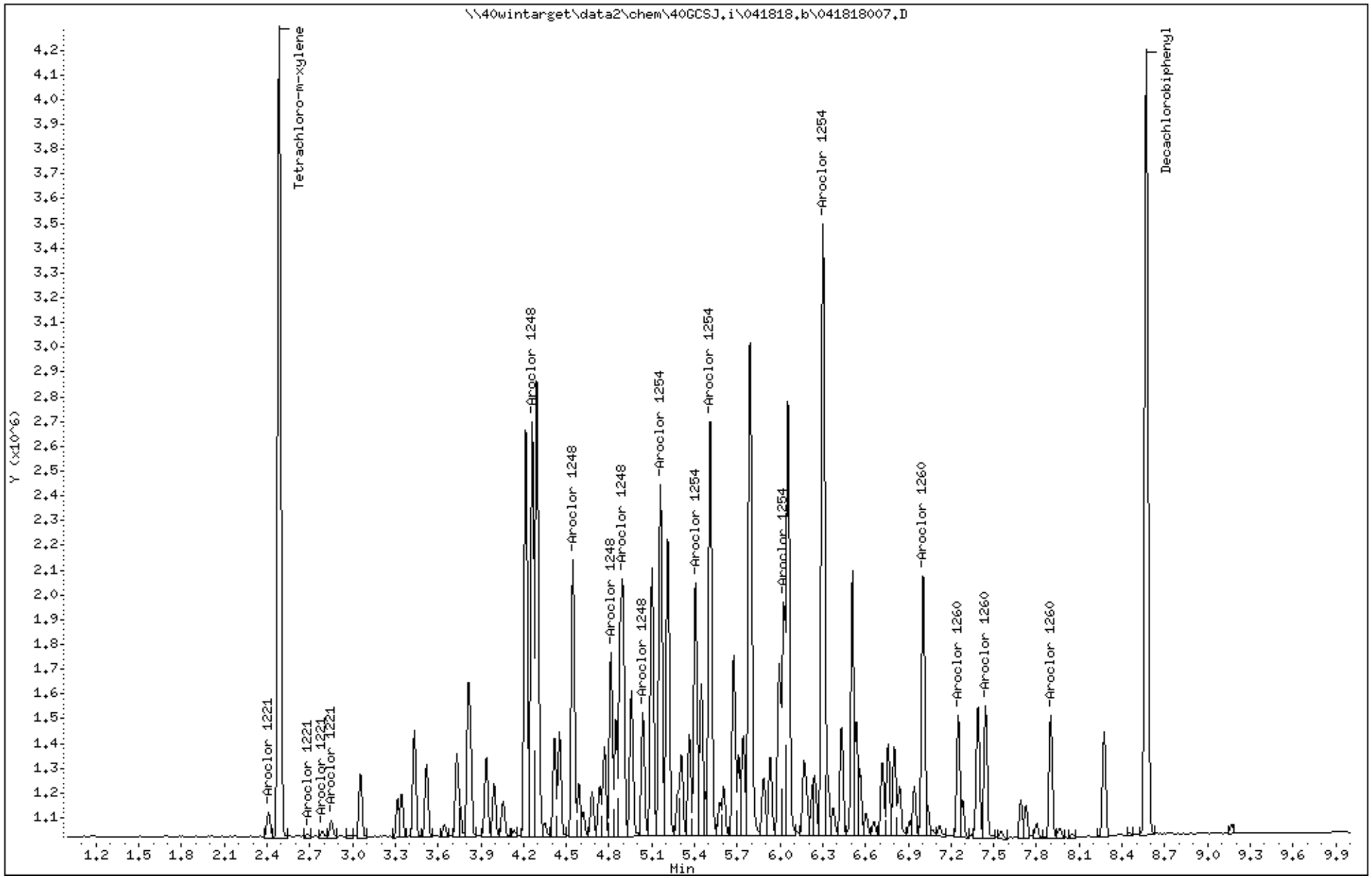
M - Compound response manually integrated.

Review Codes Legend

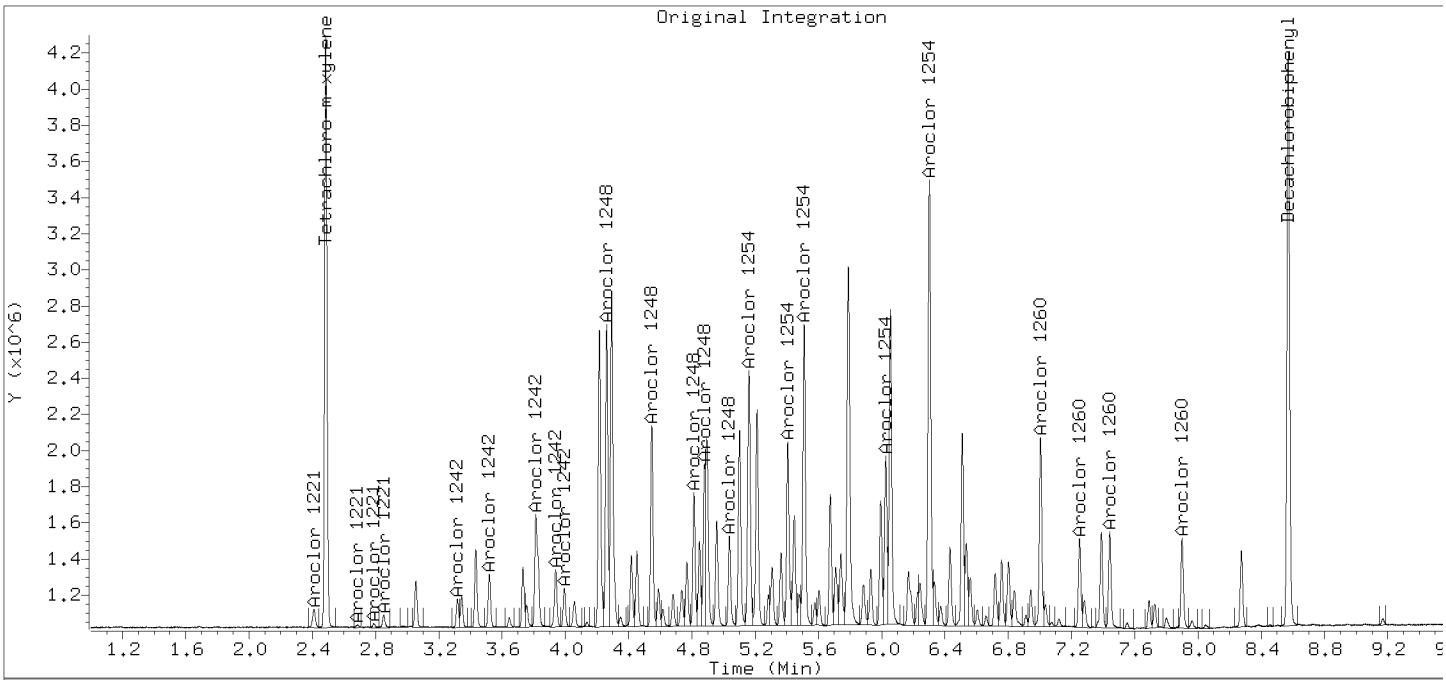
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

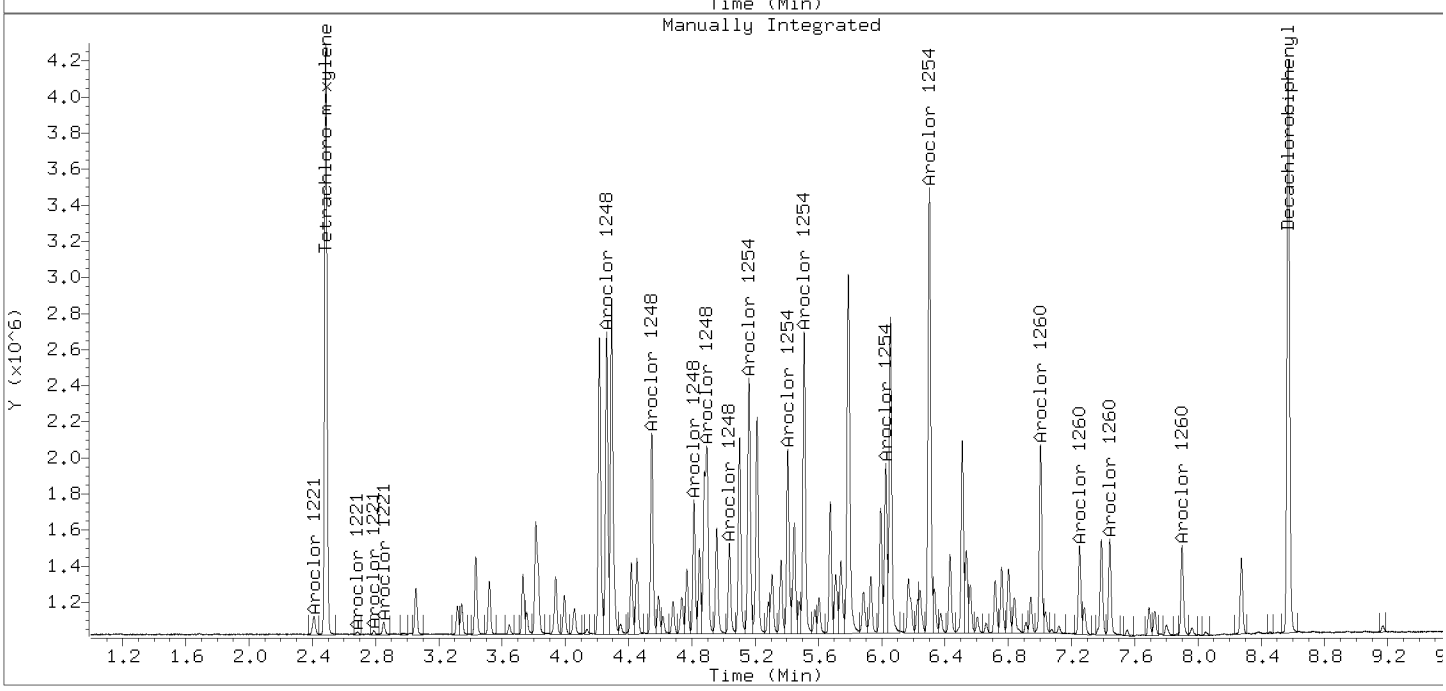
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818007.D
Date : 18-APR-2018 14:01
Client ID: ND5-170615-01-SMB-0
Sample Info: 40157698003 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 14:01 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	165577	0	
Aroclor 1016	165577	0	
Aroclor 1016	165577	0	
Aroclor 1016	165577	0	
Aroclor 1016	165577	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	84619	0	
Aroclor 1232	84619	0	
Aroclor 1232	84619	0	
Aroclor 1232	84619	0	

Aroclor 1232	84619	0	
Aroclor 1242	165577	0	
Aroclor 1242	165577	0	
Aroclor 1242	165577	0	
Aroclor 1242	165577	0	
Aroclor 1242	165577	0	
Aroclor 1248	1753336	1759626	BA
Aroclor 1248	1753336	1759626	BA
Aroclor 1248	1753336	1759626	BA
Aroclor 1248	1753336	1759626	BA
Aroclor 1248	1753336	1759626	BA
Aroclor 1254	1680503	1698383	BA
Aroclor 1254	1680503	1698383	BA
Aroclor 1254	1680503	1698383	BA
Aroclor 1254	1680503	1698383	BA
Aroclor 1254	1680503	1698383	BA
Aroclor 1260	3006055	0	BA
Aroclor 1260	3006055	0	BA
Aroclor 1260	3006055	0	BA
Aroclor 1260	3006055	0	BA
Aroclor 1260	3006055	0	BA
Tetrachloro-m-xylene	3499961	3510134	BA
Decachlorobiphenyl	3683945	3683945	

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SAMPLE NO.

ND5-170615-01-SMB-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/13/2018 07:19
Lab Sample ID: 40157698004
Date Analyzed: 04/17/2018 16:25
Lab File ID: 041718.B\041718021.D
Initial wt/vol: 9.9832 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)	579	
11097-69-1	PCB-1254 (Aroclor 1254)	552	
11096-82-5	PCB-1260 (Aroclor 1260)	251	
1336-36-3	PCB, Total	1380	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718021.D
Lab Smp Id: 40157698004 Client Smp ID: ND5-170615-01-SMB-0
Inj Date : 17-APR-2018 16:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698004 x3,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
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	9.983	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	14013	9256	0.661	0.02		
1.690	10840	8527	0.787	0.01		
2.411	77189	55809	0.723	0.12		
2.485	3849042	3536266	0.919	6.28	$ 2 Tetrachloro-m-xylene	
2.788	19561	15201	0.777	0.03		
2.850	41712	34601	0.830	0.06		
2.975	18367	12131	0.660	0.02		
3.021	10993	10317	0.939	0.01		
3.055	130322	122694	0.941	0.21		
3.318	66511	62308	0.937	0.10		
3.344	89101	83056	0.932	0.14		
3.434	170015	164036	0.965	0.27		
3.519	181640	162217	0.893	0.29		
3.647	29551	26219	0.887	0.04		
3.732	222502	160124	0.720	0.36		
3.815	304544	343210	1.127	0.49		
3.826	368166	346289	0.941	0.60		
3.939	199249	161629	0.811	0.32		
3.994	175622	160837	0.916	0.28		
4.059	84858	75225	0.886	0.13		
4.138	20272	16812	0.829	0.03		
4.215	1404581	1280678	0.912	2.29		
4.261	1509639	1425794	0.944	2.46	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	2012738	1717693	0.853	3.28	
4.342	25920	22467	0.867	0.04	
4.417	444938	423853	0.953	0.72	
4.452	444924	397507	0.893	0.72	
4.546	1093445	1026934	0.939	1.78	6 Aroclor 1248
4.588	221004	209915	0.950	0.36	
4.617	111442	94492	0.848	0.18	
4.680	202687	180819	0.892	0.33	
4.736	261839	217210	0.830	0.42	
4.768	374410	342484	0.915	0.61	
4.812	834568	799125	0.958	1.36	6 Aroclor 1248
4.848	550303	525127	0.954	0.89	
4.894	2170931	1082051	0.498	3.54	6 Aroclor 1248
4.956	694787	622908	0.897	1.13	
5.037	629930	559436	0.888	1.02	6 Aroclor 1248
5.101	1314580	1148353	0.874	2.14	
5.161	2001128	1694462	0.847	3.26	7 Aroclor 1254
5.211	1658453	1444978	0.871	2.70	
5.283	223111	216181	0.969	0.36	
5.307	407462	341218	0.837	0.66	
5.363	532589	490665	0.921	0.86	
5.405	1292452	1152972	0.892	2.10	7 Aroclor 1254
5.448	1168285	928239	0.795	1.90	
5.478	213303	205198	0.962	0.34	
5.509	2241089	1894507	0.845	3.65	7 Aroclor 1254
5.577	192698	181914	0.944	0.31	
5.603	269821	230783	0.855	0.44	
5.674	940518	877061	0.933	1.53	
5.710	483320	395831	0.819	0.78	
5.743	657941	524943	0.798	1.07	
5.789	3278977	2531914	0.772	5.34	
5.884	359567	276318	0.768	0.58	
5.930	450381	373337	0.829	0.73	
5.993	972182	867440	0.892	1.58	
6.026	1346384	1161930	0.863	2.19	7 Aroclor 1254
6.055	2581338	2203593	0.854	4.21	
6.169	575918	349587	0.607	0.93	
6.227	176877	237556	1.343	0.28	
6.241	411198	296597	0.721	0.67	
6.300	3829909	2994486	0.782	6.24	7 Aroclor 1254
6.331	320946	306546	0.955	0.52	
6.374	150581	124821	0.829	0.24	
6.432	579558	506520	0.874	0.94	
6.510	1410739	1274063	0.903	2.30	
6.535	652047	598233	0.917	1.06	
6.559	338769	306052	0.903	0.55	
6.604	125339	107585	0.858	0.20	
6.660	71195	64617	0.908	0.11	
6.718	375368	328876	0.876	0.61	
6.758	486029	443475	0.912	0.79	
6.801	483411	430998	0.892	0.78	
6.838	272902	209414	0.767	0.44	
6.911	63431	61863	0.975	0.10	
6.943	299993	277668	0.926	0.48	
7.005	1310757	1210493	0.924	2.13	8 Aroclor 1260
7.035	140900	125754	0.893	0.22	
7.075	23597	23917	1.014	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.119	50667	41644	0.822	0.08	
7.250	637284	590338	0.926	1.03	8 Aroclor 1260
7.281	208727	170469	0.817	0.34	
7.389	595857	540245	0.907	0.97	
7.442	603565	537111	0.890	0.98	8 Aroclor 1260
7.551	44264	32280	0.729	0.07	
7.613	17785	9601	0.540	0.02	
7.690	165667	155594	0.939	0.27	
7.727	133113	118249	0.888	0.21	
7.803	85953	56413	0.656	0.14	
7.899	518915	441763	0.851	0.84	8 Aroclor 1260
7.961	65916	43098	0.654	0.10	
8.050	53242	41401	0.778	0.08	
8.159	9291	7337	0.790	0.01	
8.275	391222	346827	0.887	0.63	
8.451	9857	9309	0.944	0.01	
8.571	3874252	3196470	0.825	6.83	$ 12 Decachlorobiphenyl
8.726	27980	13634	0.487	0.04	
9.169	39166	32636	0.833	0.06	
	61289922	52300634		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718021.D
Lab Smp Id: 40157698004 Client Smp ID: ND5-170615-01-SMB-0
Inj Date : 17-APR-2018 16:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698004 x3,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
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	9.983	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.484	2.484	0.000	3849042	0.03122	47			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1509638	0.64433	970	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1093445	0.26346	400	0.00- 20.00	72.43	BA
4.811	4.812	-0.001	834568	0.41110	620	0.00- 20.00	55.28	BA
4.893	4.879	0.014	2170931	0.43096	650	0.00- 20.00	143.80	BA
5.036	5.038	-0.002	629930	0.17554	260	0.00- 20.00	41.73	BA
Average of Peak Concentrations =					580			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2001127	0.38224	570	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1292452	0.30050	450	0.00- 20.00	64.59	BA
5.508	5.510	-0.002	2241089	0.28857	430	0.00- 20.00	111.99	BA
6.025	6.027	-0.002	1346383	0.27648	420	0.00- 20.00	67.28	BA
6.299	6.299	0.000	3829909	0.58857	880	0.00- 20.00	191.39	BA
Average of Peak Concentrations =					550			
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	1310756	0.13089	200	0.00- 20.00	34.22	BA
7.250	7.251	-0.001	637284	0.13333	200	0.00- 20.00	16.64	BA
7.441	7.443	-0.002	603564	0.20705	310	0.00- 20.00	15.76	BA
7.899	7.901	-0.002	518915	0.19665	300	0.00- 20.00	13.55	BA
Average of Peak Concentrations =					250			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3874252	0.03536	53			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718021.D

Date : 17-APR-2018 16:25

Client ID: ND5-170615-01-SMB-0

Instrument: 40GCSJ.i

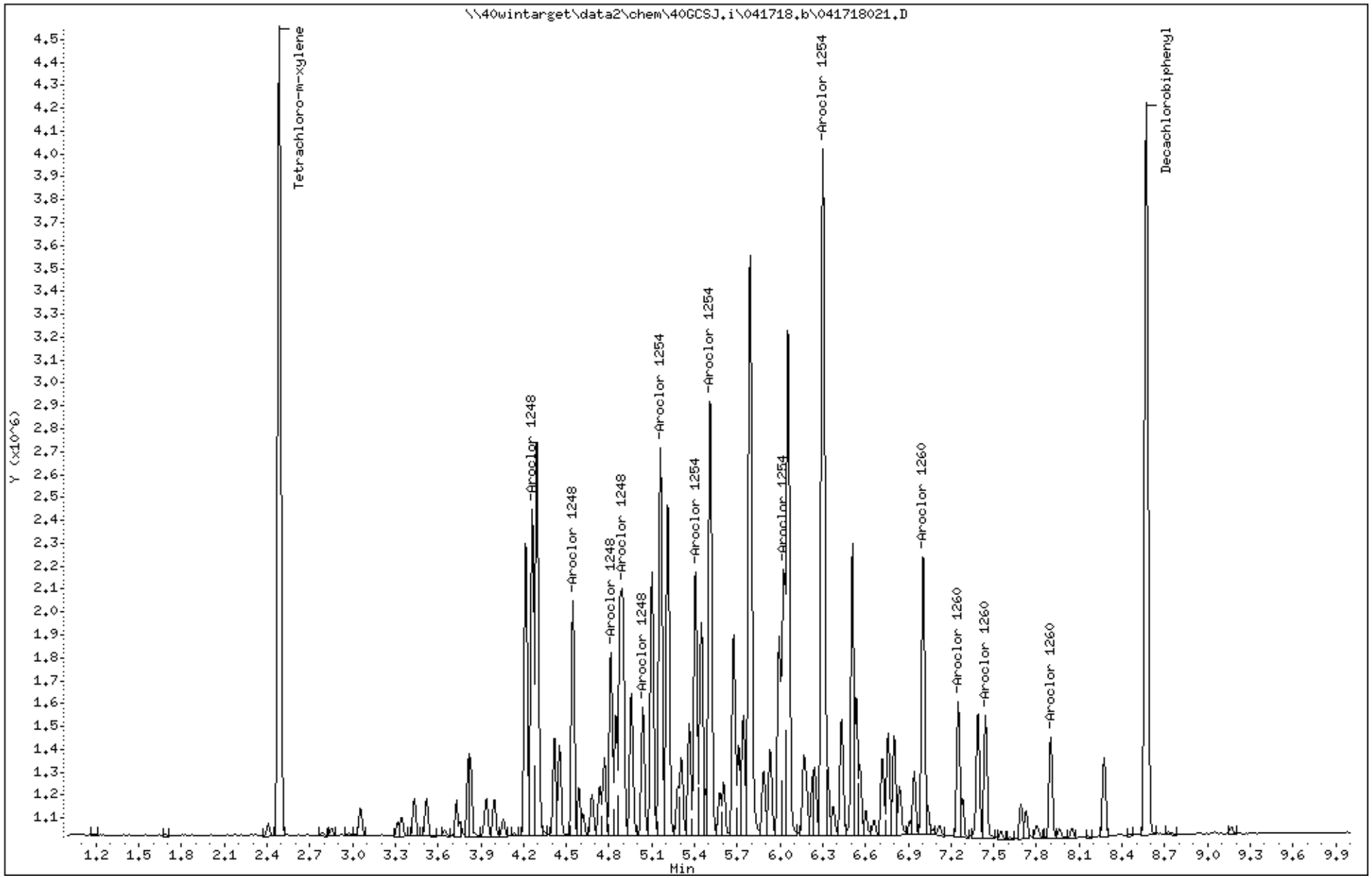
Sample Info: 40157698004 x3,

Volume Injected (uL): 1.0

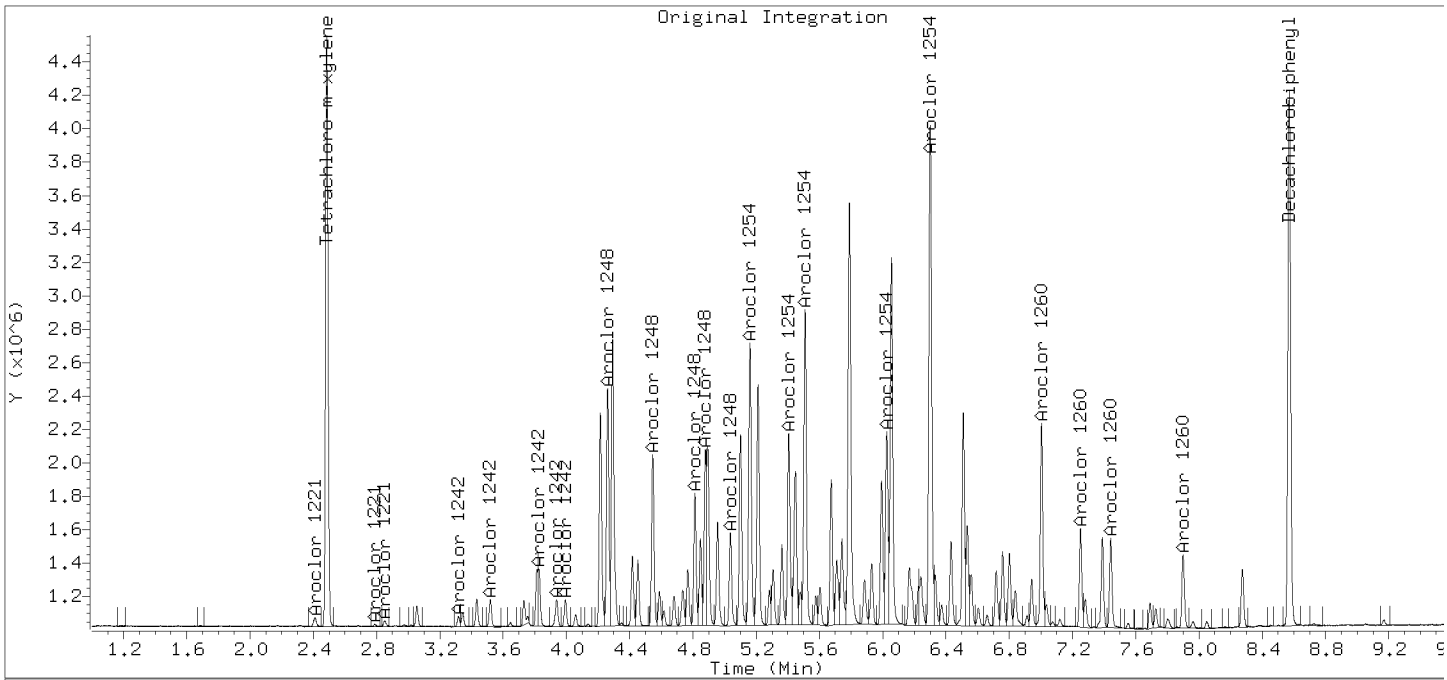
Operator: BLM

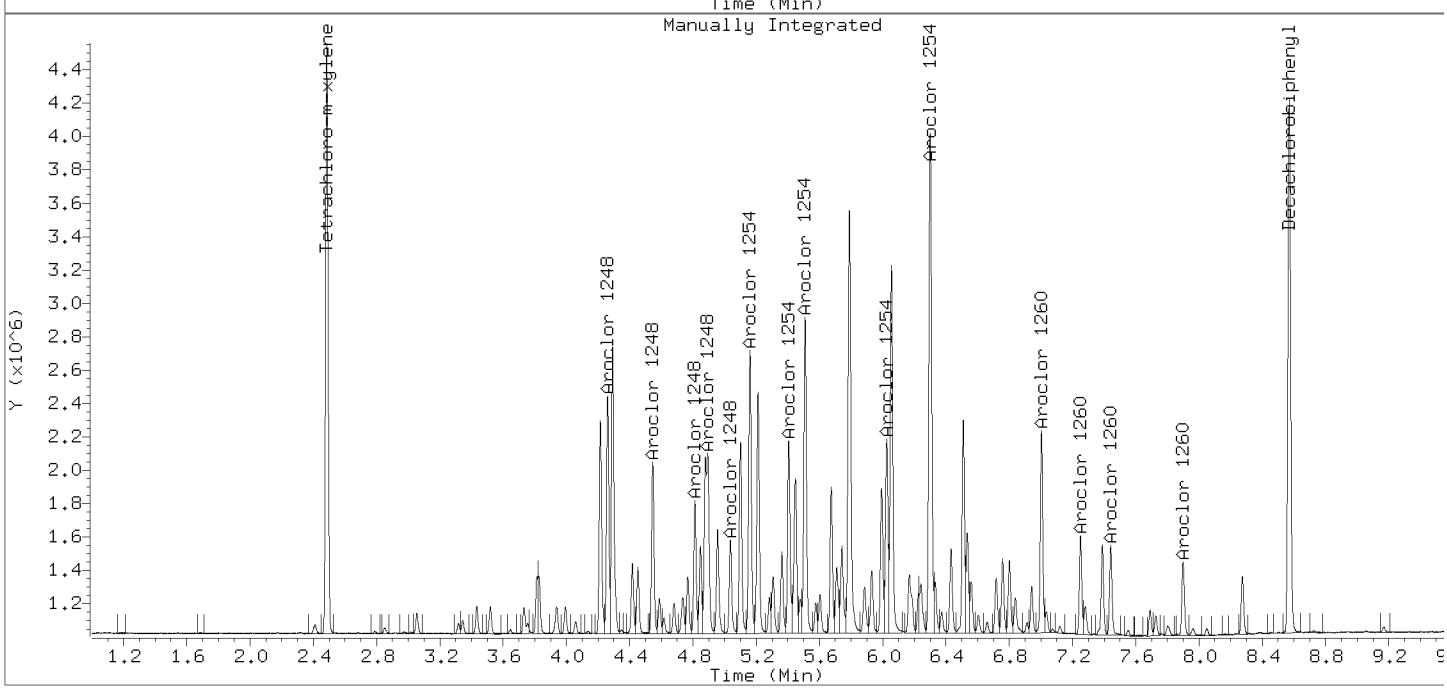
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 16:25 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	66511	0	
Aroclor 1016	66511	0	
Aroclor 1016	66511	0	
Aroclor 1016	66511	0	
Aroclor 1016	66511	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	41711	0	
Aroclor 1232	41711	0	
Aroclor 1232	41711	0	
Aroclor 1232	41711	0	

Aroclor 1232	41711	0	
Aroclor 1242	66511	0	
Aroclor 1242	66511	0	
Aroclor 1242	66511	0	
Aroclor 1242	66511	0	
Aroclor 1242	66511	0	
Aroclor 1248	1498182	1509638	BA
Aroclor 1248	1498182	1509638	BA
Aroclor 1248	1498182	1509638	BA
Aroclor 1248	1498182	1509638	BA
Aroclor 1248	1498182	1509638	BA
Aroclor 1254	1979234	2001127	BA
Aroclor 1254	1979234	2001127	BA
Aroclor 1254	1979234	2001127	BA
Aroclor 1254	1979234	2001127	BA
Aroclor 1254	1979234	2001127	BA
Aroclor 1260	3816934	0	BA
Aroclor 1260	3816934	0	BA
Aroclor 1260	3816934	0	BA
Aroclor 1260	3816934	0	BA
Aroclor 1260	3816934	0	BA
Tetrachloro-m-xylene	3849042	3849042	
Decachlorobiphenyl	3874252	3874252	

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SAMPLE NO.

ND5-170615-01-SMB-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/13/2018 07:19
Lab Sample ID: 40157698005
Date Analyzed: 04/17/2018 16:41
Lab File ID: 041718.B\041718022.D
Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.6	U
11104-28-2	PCB-1221 (Aroclor 1221)	123	J
11141-16-5	PCB-1232 (Aroclor 1232)	<45.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	939	
11097-69-1	PCB-1254 (Aroclor 1254)	778	
11096-82-5	PCB-1260 (Aroclor 1260)	325	
1336-36-3	PCB, Total	2160	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718022.D
Lab Smp Id: 40157698005 Client Smp ID: ND5-170615-01-SMB-0
Inj Date : 17-APR-2018 16:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698005 x4,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	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	10362	7786	0.751	0.01			
1.688	10253	8410	0.820	0.01			
2.410	103177	74937	0.726	0.16		1 Aroclor 1221	BA
2.485	2718499	2497611	0.919	4.29	$	2 Tetrachloro-m-xylene	BA
2.681	17022	12870	0.756	0.02		1 Aroclor 1221	BA
2.785	26844	18842	0.702	0.04		1 Aroclor 1221	BA
2.850	69133	56803	0.822	0.10		1 Aroclor 1221	BA
3.055	178395	159527	0.894	0.28			
3.317	104042	104456	1.004	0.16			
3.344	126800	113408	0.894	0.20			
3.433	285388	263846	0.925	0.45			
3.519	250561	228557	0.912	0.39			
3.647	43789	34121	0.779	0.06			
3.731	269878	255671	0.947	0.42			
3.756	100453	93836	0.934	0.15			
3.813	907622	525153	0.579	1.43			
3.938	274485	228686	0.833	0.43			
3.993	205173	183656	0.895	0.32			
4.058	106933	98183	0.918	0.16			
4.135	22359	18912	0.846	0.03			
4.214	1870435	1682900	0.900	2.95			
4.260	1922991	1815115	0.944	3.03		6 Aroclor 1248	BA
4.291	2468811	2020367	0.818	3.89			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.347	40032	31818	0.795	0.06	
4.417	468982	446904	0.953	0.74	
4.452	499529	459888	0.921	0.78	
4.546	1335455	1198870	0.898	2.10	6 Aroclor 1248
4.589	266946	248567	0.931	0.42	
4.617	110868	93539	0.844	0.17	
4.679	243353	216842	0.891	0.38	
4.736	297424	244481	0.822	0.46	
4.767	475400	450658	0.948	0.75	
4.812	1001632	962556	0.961	1.58	6 Aroclor 1248
4.848	619603	570162	0.920	0.97	
4.893	2558586	1260234	0.493	4.03	6 Aroclor 1248
4.957	831323	738701	0.889	1.31	
5.037	727720	666044	0.915	1.14	6 Aroclor 1248
5.101	1510887	1343487	0.889	2.38	
5.161	2189947	1840108	0.840	3.45	7 Aroclor 1254
5.212	1804392	1571157	0.871	2.84	
5.284	228625	235324	1.029	0.36	
5.306	483624	402234	0.832	0.76	
5.362	578083	524468	0.907	0.91	
5.406	1479865	1328335	0.898	2.33	7 Aroclor 1254
5.447	1016211	842071	0.829	1.60	
5.478	239383	219802	0.918	0.37	
5.509	2408287	2103261	0.873	3.80	7 Aroclor 1254
5.577	190079	174098	0.916	0.30	
5.604	288264	247394	0.858	0.45	
5.674	1031759	966320	0.937	1.62	
5.709	500373	400264	0.800	0.78	
5.742	671156	526340	0.784	1.05	
5.789	3402146	2582968	0.759	5.37	
5.884	398395	300732	0.755	0.62	
5.930	447318	387283	0.866	0.70	
5.992	932046	870747	0.934	1.47	
6.024	1425770	1191548	0.836	2.25	7 Aroclor 1254
6.056	2466223	2096445	0.850	3.89	
6.169	563026	348236	0.619	0.88	
6.233	210105	223533	1.064	0.33	
6.241	364899	294165	0.806	0.57	
6.301	3766298	3128673	0.831	6.43	7 Aroclor 1254
6.333	311929	301762	0.967	0.49	
6.373	157100	126507	0.805	0.24	
6.432	560614	493691	0.881	0.88	
6.509	1307974	1147124	0.877	2.06	
6.535	635942	597927	0.940	1.00	
6.561	328583	293211	0.892	0.51	
6.603	122060	103578	0.849	0.19	
6.661	67359	62351	0.926	0.10	
6.718	356639	318947	0.894	0.56	
6.759	458782	402122	0.876	0.72	
6.801	476157	424109	0.891	0.75	
6.839	253403	203995	0.805	0.40	
6.912	62851	60160	0.957	0.09	
6.942	243731	218888	0.898	0.38	
7.004	1230950	1105838	0.898	1.94	8 Aroclor 1260
7.036	129863	121586	0.936	0.20	
7.073	24896	22976	0.923	0.03	
7.121	48317	40381	0.836	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.250	608037	558681	0.919	0.95	8 Aroclor 1260
7.280	194431	165849	0.853	0.30	
7.389	607677	517922	0.852	0.95	
7.441	592187	526367	0.889	0.93	8 Aroclor 1260
7.553	40666	34609	0.851	0.06	
7.611	11571	6715	0.580	0.01	
7.690	171450	156751	0.914	0.27	
7.726	153346	124106	0.809	0.24	
7.799	76920	51154	0.665	0.12	
7.863	10866	9820	0.904	0.01	
7.899	520406	464573	0.893	0.82	8 Aroclor 1260
7.961	58505	41278	0.706	0.09	
8.051	33543	25973	0.774	0.05	
8.275	413488	372470	0.901	0.65	
8.456	16671	11300	0.678	0.02	
8.504	10477	6913	0.660	0.01	
8.571	2840190	2411275	0.849	4.48	$ 12 Decachlorobiphenyl
9.165	34628	27071	0.782	0.05	
	63339629	53799890		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718022.D
Lab Smp Id: 40157698005 Client Smp ID: ND5-170615-01-SMB-0
Inj Date : 17-APR-2018 16:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698005 x4,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	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			
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	103176	0.18833	380	0.00- 20.00	0.00	BA
2.685	2.688	-0.003	17021	0.01230	25	0.00- 20.00	0.00	BA
2.785	2.789	-0.004	26843	0.02428	48	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	69132	0.02124	42	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					120			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	2718498	0.02205	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			
4.260	4.261	-0.001	1922990	0.82075	1600	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	1335454	0.32177	640	0.00- 20.00	69.45	BA
4.812	4.812	0.000	1001632	0.49340	990	0.00- 20.00	52.09	BA
4.893	4.879	0.014	2558586	0.50791	1000	0.00- 20.00	133.05	BA
5.037	5.038	-0.001	727720	0.20279	400	0.00- 20.00	37.84	BA
			Average of Peak Concentrations =		940			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2189947	0.41831	840	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1479865	0.34407	690	0.00- 20.00	67.58	BA
5.509	5.510	-0.001	2408286	0.31010	620	0.00- 20.00	109.97	BA
6.024	6.027	-0.003	1425769	0.29278	580	0.00- 20.00	65.11	BA
6.301	6.299	0.002	3766298	0.57880	1200	0.00- 20.00	171.98	BA
			Average of Peak Concentrations =		780			
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	1230949	0.12292	240	0.00- 20.00	32.68	BA
7.250	7.251	-0.001	608037	0.12721	250	0.00- 20.00	16.14	BA
7.441	7.443	-0.002	592187	0.20314	410	0.00- 20.00	15.72	BA
7.899	7.901	-0.002	520405	0.19722	390	0.00- 20.00	13.82	BA
			Average of Peak Concentrations =		320			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2840190	0.02592	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\041718.b\041718022.D

Date : 17-APR-2018 16:41

Client ID: ND5-170615-01-SMB-0

Instrument: 40GCSJ.i

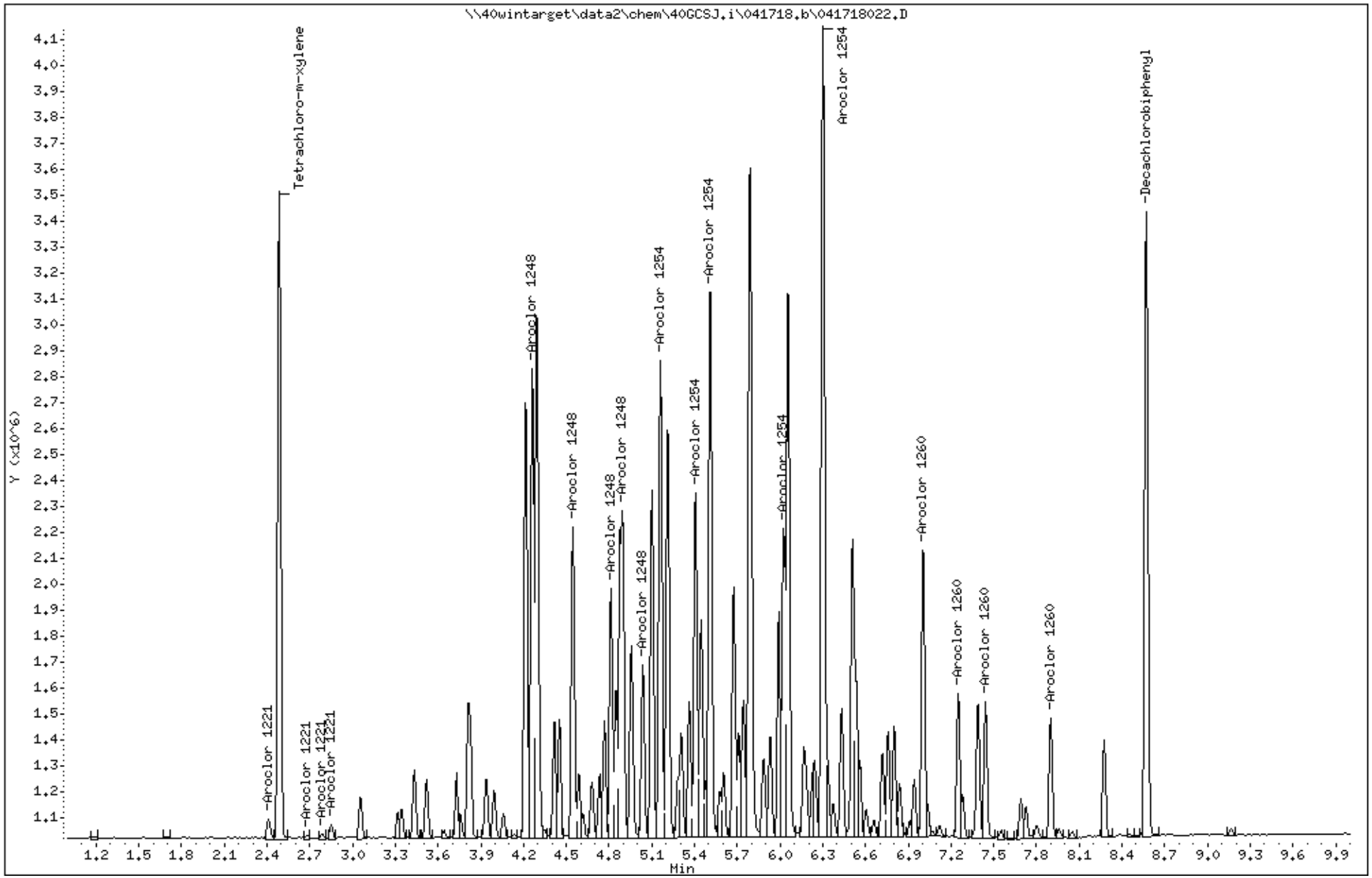
Sample Info: 40157698005 x4,

Volume Injected (uL): 1.0

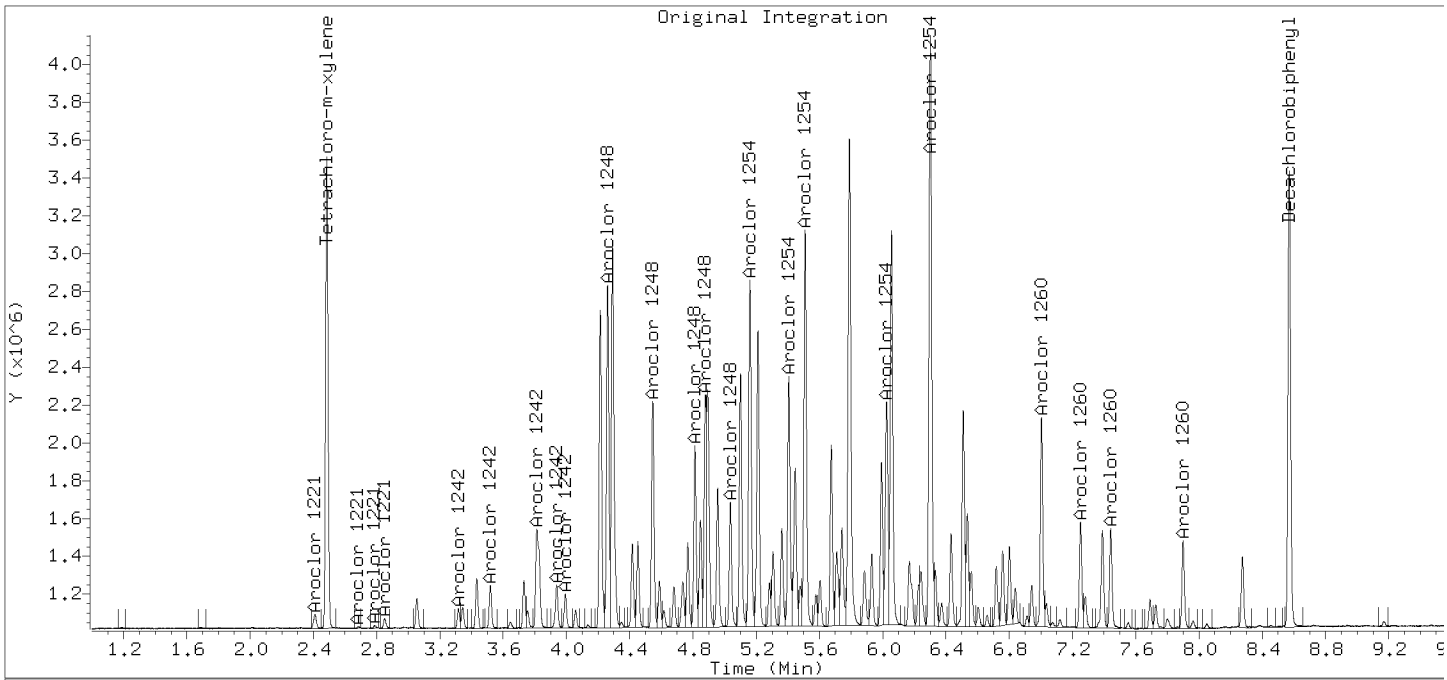
Operator: BLM

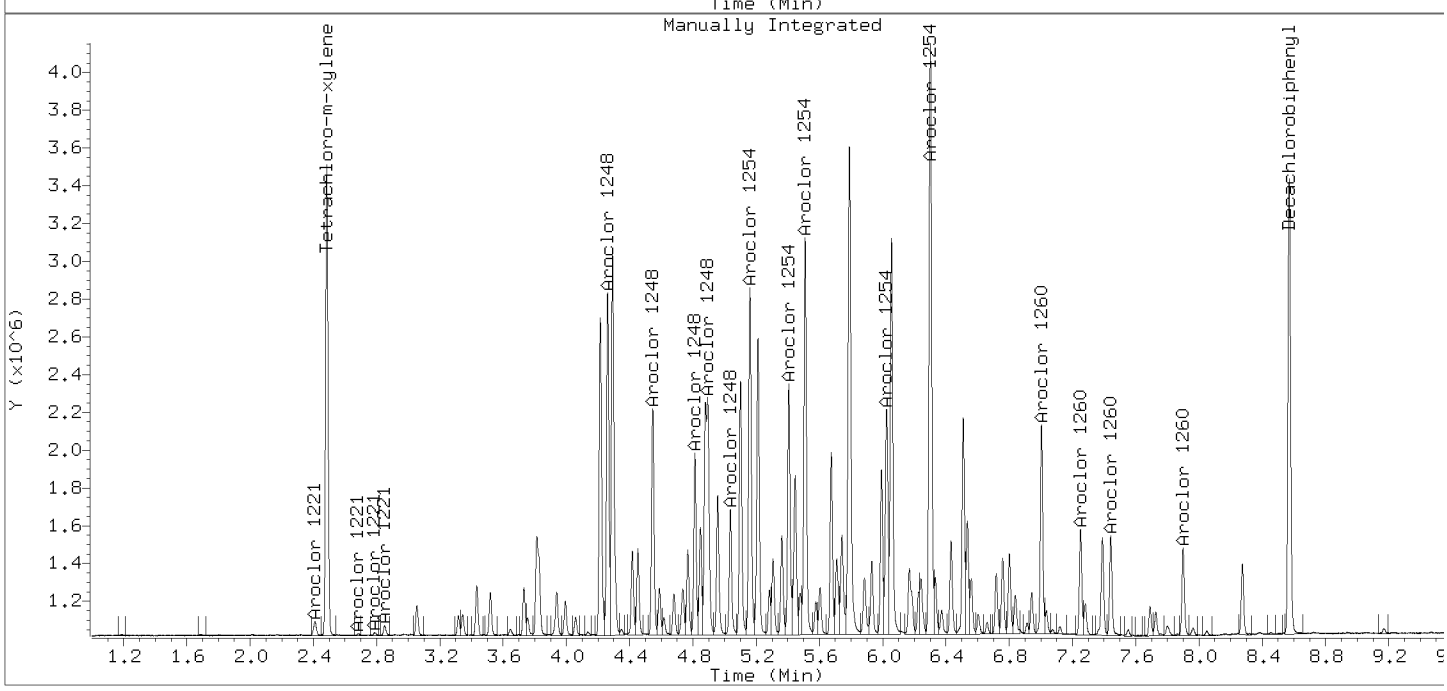
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 16:41 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	102260	0	
Aroclor 1016	102260	0	
Aroclor 1016	102260	0	
Aroclor 1016	102260	0	
Aroclor 1016	102260	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	64131	0	
Aroclor 1232	64131	0	
Aroclor 1232	64131	0	
Aroclor 1232	64131	0	

Aroclor 1232	64131	0	
Aroclor 1242	102260	0	
Aroclor 1242	102260	0	
Aroclor 1242	102260	0	
Aroclor 1242	102260	0	
Aroclor 1242	102260	0	
Aroclor 1248	1913329	1922990	BA
Aroclor 1248	1913329	1922990	BA
Aroclor 1248	1913329	1922990	BA
Aroclor 1248	1913329	1922990	BA
Aroclor 1248	1913329	1922990	BA
Aroclor 1254	2168464	2189947	BA
Aroclor 1254	2168464	2189947	BA
Aroclor 1254	2168464	2189947	BA
Aroclor 1254	2168464	2189947	BA
Aroclor 1254	2168464	2189947	BA
Aroclor 1260	3750034	0	BA
Aroclor 1260	3750034	0	BA
Aroclor 1260	3750034	0	BA
Aroclor 1260	3750034	0	BA
Aroclor 1260	3750034	0	BA
Tetrachloro-m-xylene	2704623	2718498	BA
Decachlorobiphenyl	2840190	2840190	

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SAMPLE NO.

ND5-170615-01-SMB-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/10/2018 07:13
Lab Sample ID: 40157698006
Date Analyzed: 04/11/2018 16:54
Lab File ID: 041118.B\041118013.D
Initial wt/vol: 9.9828 g Final wt/vol: 5 mL Dilution: 10
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	<114	U
11141-16-5	PCB-1232 (Aroclor 1232)	<114	U
53469-21-9	PCB-1242 (Aroclor 1242)	<114	U
12672-29-6	PCB-1248 (Aroclor 1248)	914	
11097-69-1	PCB-1254 (Aroclor 1254)	1020	
11096-82-5	PCB-1260 (Aroclor 1260)	1140	
1336-36-3	PCB, Total	3080	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118013.D
Lab Smp Id: 40157698006 Client Smp ID: ND5-170615-01-SMB-0
Inj Date : 11-APR-2018 16:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698006 x10,
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: 13
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.983	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	16521	8963	0.543	0.03		
2.409	37796	25298	0.669	0.08		
2.485	1235765	1141464	0.924	2.88	$ 2 Tetrachloro-m-xylene	
2.849	12348	12271	0.994	0.02		
3.055	47763	44702	0.936	0.11		
3.318	32389	30442	0.940	0.07	5 Aroclor 1016	BA
3.345	46920	41305	0.880	0.10		
3.433	72741	67690	0.931	0.16		
3.520	88781	76048	0.857	0.20	5 Aroclor 1016	BA
3.647	16077	13369	0.832	0.03		
3.733	78388	76227	0.972	0.18		
3.755	34071	33155	0.973	0.07		
3.813	136919	158997	1.161	0.31		
3.825	170644	154727	0.907	0.39	5 Aroclor 1016	BA
3.938	95266	78472	0.824	0.22	5 Aroclor 1016	BA
3.993	79145	69174	0.874	0.18	5 Aroclor 1016	BA
4.059	40471	35860	0.886	0.09		
4.215	618199	562798	0.910	1.44		
4.261	682101	653688	0.958	1.59	6 Aroclor 1248	BA
4.292	989170	833022	0.842	2.30		
4.417	163716	150167	0.917	0.38		
4.452	177534	154157	0.868	0.41		
4.546	513815	474366	0.923	1.19	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.588	128759	118972	0.924	0.30	
4.618	43266	36807	0.851	0.10	
4.682	132612	121484	0.916	0.30	
4.737	195500	171158	0.875	0.45	
4.768	197699	185658	0.939	0.46	
4.812	424243	391502	0.923	0.98	6 Aroclor 1248
4.849	219297	207648	0.947	0.51	
4.894	1083263	566672	0.523	2.52	6 Aroclor 1248
4.956	420323	357275	0.850	0.98	
5.036	264408	232355	0.879	0.61	6 Aroclor 1248
5.102	905768	816962	0.902	2.11	
5.161	1361119	1147453	0.843	3.17	7 Aroclor 1254
5.212	1277903	1114195	0.872	2.97	
5.284	182131	179065	0.983	0.42	
5.306	264043	220803	0.836	0.61	
5.363	317835	271814	0.855	0.74	
5.407	805045	758266	0.942	1.87	7 Aroclor 1254
5.447	654732	518269	0.792	1.52	
5.479	147677	137732	0.933	0.34	
5.510	1309244	1120137	0.856	3.05	7 Aroclor 1254
5.578	211822	193056	0.911	0.49	
5.603	136243	118139	0.867	0.31	
5.674	888536	838854	0.944	2.07	
5.710	347257	277978	0.800	0.80	
5.743	549441	433339	0.789	1.28	
5.790	2710648	2029346	0.749	6.32	
5.885	289621	220333	0.761	0.67	
5.932	442058	387125	0.876	1.03	
5.994	939321	869062	0.925	2.19	
6.025	983242	842890	0.857	2.29	7 Aroclor 1254
6.056	2494777	2132146	0.855	5.81	
6.169	473730	291673	0.616	1.10	
6.227	201654	220951	1.096	0.47	
6.241	326840	256799	0.786	0.76	
6.301	3535099	2830164	0.801	8.69	8 Aroclor 1260
6.333	312998	287798	0.919	0.72	
6.373	130068	102876	0.791	0.30	
6.432	629593	564406	0.896	1.46	
6.510	1557412	1421573	0.913	3.63	
6.536	546871	515838	0.943	1.27	
6.561	393379	347614	0.884	0.91	
6.604	132662	108565	0.818	0.30	
6.661	72054	63543	0.882	0.16	
6.717	331815	287994	0.868	0.77	
6.759	434732	387546	0.891	1.01	
6.803	511924	453132	0.885	1.19	
6.839	286644	229376	0.800	0.66	
6.911	71010	66790	0.941	0.16	
6.943	239698	220937	0.922	0.55	
7.004	1470267	1273368	0.866	3.42	8 Aroclor 1260
7.035	161889	143394	0.886	0.37	
7.073	32762	28716	0.877	0.07	
7.122	34931	29132	0.834	0.08	
7.252	683603	613287	0.897	1.59	8 Aroclor 1260
7.280	223371	187185	0.838	0.52	
7.389	708320	597334	0.843	1.65	
7.443	687166	616732	0.898	1.60	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.553	42816	35919	0.839	0.09	
7.691	200747	173719	0.865	0.46	
7.726	121179	103836	0.857	0.28	
7.799	77649	49191	0.634	0.18	
7.901	573258	511492	0.892	1.33	8 Aroclor 1260
7.961	66922	45520	0.680	0.15	
8.049	40446	31928	0.789	0.09	
8.274	388869	341198	0.877	0.90	
8.382	16713	9278	0.555	0.03	
8.570	1369238	1198120	0.875	3.19	$ 12 Decachlorobiphenyl
9.169	45775	31442	0.687	0.10	
9.468	17386	14648	0.843	0.04	
9.964	22505	16352	0.727	0.05	
	42888367	36622223		100.000	

Total unknown % area = 59

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118013.D
Lab Smp Id: 40157698006 Client Smp ID: ND5-170615-01-SMB-0
Inj Date : 11-APR-2018 16:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698006 x10,
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: 13
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	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

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
2.484	2.484	0.000	1235765	0.01002	50			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	682100	0.29113	1400	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	513814	0.12380	620	0.00- 20.00	75.33	BA
4.812	4.812	0.000	424242	0.20898	1000	0.00- 20.00	62.20	BA
4.893	4.879	0.014	1083263	0.21504	1100	0.00- 20.00	158.81	BA
5.036	5.038	-0.002	264408	0.07368	370	0.00- 20.00	38.76	BA
Average of Peak Concentrations =					910			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1361118	0.25999	1300	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	805045	0.18717	940	0.00- 20.00	59.15	BA
5.509	5.510	-0.001	1309244	0.16859	840	0.00- 20.00	96.19	BA
6.025	6.027	-0.002	983242	0.20191	1000	0.00- 20.00	72.24	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					1000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.301	6.300	0.001	3535099	0.39889	2000	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1470267	0.14682	740	0.00- 20.00	41.59	BA
7.252	7.251	0.001	683602	0.14302	720	0.00- 20.00	19.34	BA
7.442	7.443	-0.001	687166	0.23573	1200	0.00- 20.00	19.44	BA
7.901	7.901	0.000	573257	0.21725	1100	0.00- 20.00	16.22	BA
Average of Peak Concentrations =					1100			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	1369238	0.01250	62			

QC Flag Legend

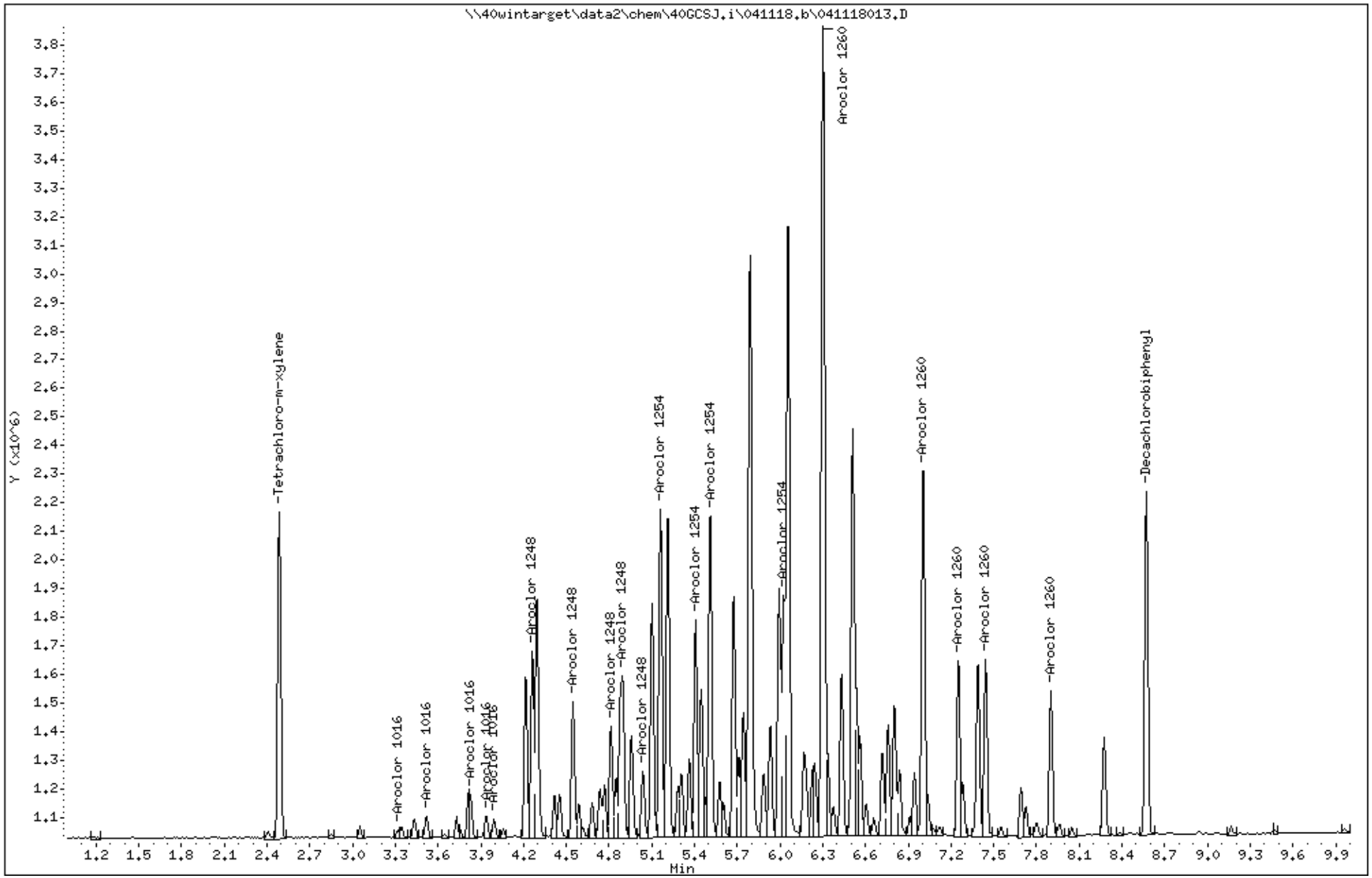
M - Compound response manually integrated.

Review Codes Legend

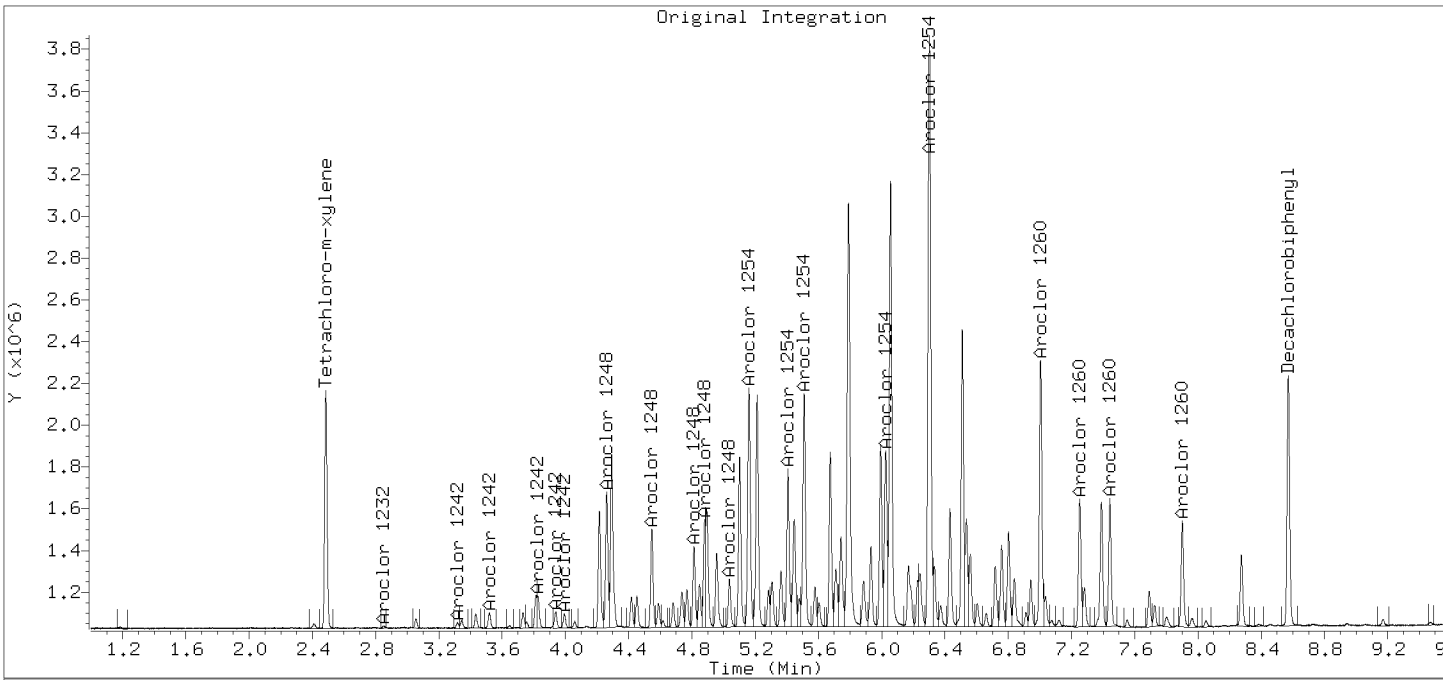
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

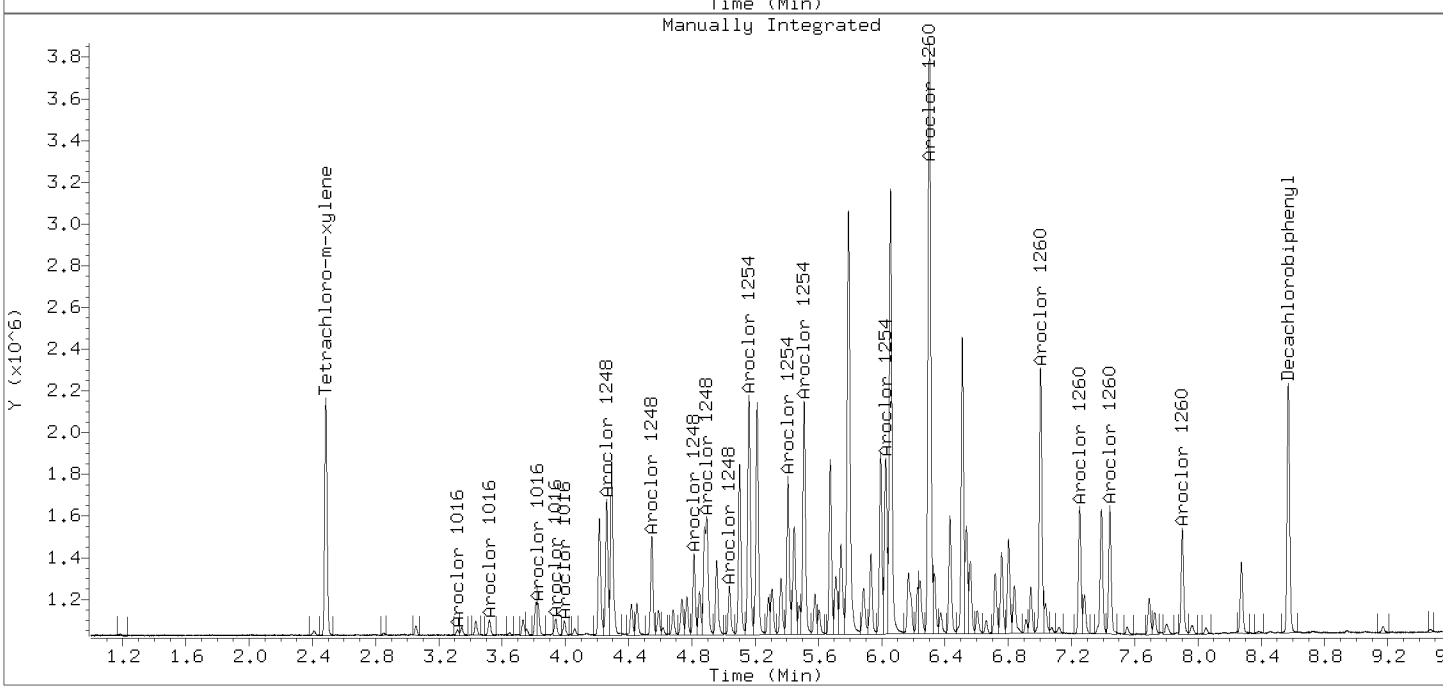
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118013.D
Date : 11-APR-2018 16:54
Client ID: ND5-170615-01-SMB-0
Sample Info: 40157698006 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 16:54 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698006





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	12348	0	
Aroclor 1232	12348	0	
Aroclor 1232	12348	0	
Aroclor 1232	12348	0	

Aroclor 1232	12348	0	
Aroclor 1242	32389	0	
Aroclor 1242	32389	0	
Aroclor 1242	32389	0	
Aroclor 1242	32389	0	
Aroclor 1242	32389	0	
Aroclor 1248	671240	682100	BA
Aroclor 1248	671240	682100	BA
Aroclor 1248	671240	682100	BA
Aroclor 1248	671240	682100	BA
Aroclor 1248	671240	682100	BA
Aroclor 1254	1349413	1361118	BA
Aroclor 1254	1349413	1361118	BA
Aroclor 1254	1349413	1361118	BA
Aroclor 1254	1349413	1361118	BA
Aroclor 1254	1349413	1361118	BA
Aroclor 1260	3531354	3535099	BA
Aroclor 1260	3531354	3535099	BA
Aroclor 1260	3531354	3535099	BA
Aroclor 1260	3531354	3535099	BA
Aroclor 1260	3531354	3535099	BA
Tetrachloro-m-xylene	1235765	1235765	
Decachlorobiphenyl	1369238	1369238	

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SAMPLE NO.

ND5-170615-01-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/10/2018 07:13
Lab Sample ID: 40157698007
Date Analyzed: 04/11/2018 17:10
Lab File ID: 041118.B\041118014.D
Initial wt/vol: 9.9881 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)	378	
11097-69-1	PCB-1254 (Aroclor 1254)	388	
11096-82-5	PCB-1260 (Aroclor 1260)	397	
1336-36-3	PCB, Total	1160	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118014.D
Lab Smp Id: 40157698007 Client Smp ID: ND5-170615-01-SMB-0
Inj Date : 11-APR-2018 17:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698007 x3,
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: 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	9.988	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	47259	34590	0.732	0.08		
2.486	3620879	3278207	0.905	6.34	$ 2 Tetrachloro-m-xylene	
2.782	9639	9236	0.958	0.01		
2.850	28890	22865	0.791	0.05		
3.056	70275	65002	0.925	0.12		
3.318	36791	36078	0.981	0.06		
3.345	57796	53193	0.920	0.10		
3.434	105909	94906	0.896	0.18		
3.521	111039	100725	0.907	0.19		
3.646	19278	15580	0.808	0.03		
3.733	123198	90842	0.737	0.21		
3.814	140310	183787	1.310	0.24		
3.826	217096	184515	0.850	0.38		
3.940	149861	120331	0.803	0.26		
3.994	123999	107636	0.868	0.21		
4.057	55898	46818	0.838	0.09		
4.138	18874	14870	0.788	0.03		
4.216	896386	802324	0.895	1.56		
4.261	970354	878428	0.905	1.69	6 Aroclor 1248	BA
4.292	1398643	1178004	0.842	2.44		
4.347	20781	16548	0.796	0.03		
4.417	265083	244501	0.922	0.46		
4.452	272453	247776	0.909	0.47		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.546	735066	683433	0.930	1.28	6 Aroclor 1248
4.590	185413	165239	0.891	0.32	
4.617	69606	61853	0.889	0.12	
4.681	174980	156168	0.892	0.30	
4.737	264679	229262	0.866	0.46	
4.768	293783	267113	0.909	0.51	
4.813	535163	498641	0.932	0.93	6 Aroclor 1248
4.847	287874	269887	0.938	0.50	
4.893	1504059	819013	0.545	2.63	6 Aroclor 1248
4.957	583710	512977	0.879	1.02	
5.037	378581	331015	0.874	0.66	6 Aroclor 1248
5.102	1201554	1042320	0.867	2.10	
5.161	1719812	1425260	0.829	3.01	7 Aroclor 1254
5.212	1500471	1317667	0.878	2.62	
5.283	222819	218900	0.982	0.39	
5.308	390229	324803	0.832	0.68	
5.363	422637	364778	0.863	0.74	
5.407	1107664	986007	0.890	1.94	7 Aroclor 1254
5.447	757549	647348	0.855	1.32	
5.479	244401	215882	0.883	0.42	
5.510	1699008	1440835	0.848	2.97	7 Aroclor 1254
5.578	256816	235744	0.918	0.44	
5.603	204152	177420	0.869	0.35	
5.676	1055594	990683	0.939	1.84	
5.709	487017	399019	0.819	0.85	
5.743	629645	508444	0.808	1.10	
5.790	2932752	2150655	0.733	5.13	
5.884	322430	256197	0.795	0.56	
5.931	544686	479081	0.880	0.95	
5.993	1139246	1035674	0.909	1.99	
6.026	1116570	985774	0.883	1.95	7 Aroclor 1254
6.056	2846690	2302795	0.809	4.98	
6.169	603484	352113	0.583	1.05	
6.228	204988	248046	1.210	0.35	
6.242	424563	315200	0.742	0.74	
6.302	4028906	3201975	0.795	7.56	8 Aroclor 1260
6.332	325493	310066	0.953	0.57	
6.373	156695	129738	0.828	0.27	
6.432	804259	703590	0.875	1.40	
6.510	1833787	1588869	0.866	3.21	
6.536	599631	575056	0.959	1.05	
6.560	404952	360796	0.891	0.70	
6.605	135090	113673	0.841	0.23	
6.661	84450	77966	0.923	0.14	
6.717	450999	396340	0.879	0.78	
6.759	579940	526120	0.907	1.01	
6.802	524502	477239	0.910	0.91	
6.839	364910	284383	0.779	0.63	
6.913	90716	86023	0.948	0.15	
6.943	300908	271941	0.904	0.52	
7.005	1632576	1425654	0.873	2.85	8 Aroclor 1260
7.035	179019	164209	0.917	0.31	
7.077	31784	28005	0.881	0.05	
7.121	70936	56670	0.799	0.12	
7.251	762470	683559	0.897	1.33	8 Aroclor 1260
7.281	252597	217288	0.860	0.44	
7.389	864520	730069	0.844	1.51	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.443	822540	708851	0.862	1.44	8 Aroclor 1260
7.551	46873	36420	0.777	0.08	
7.690	239432	219736	0.918	0.41	
7.728	190876	164895	0.864	0.33	
7.763	11914	14834	1.245	0.02	
7.801	107859	72813	0.675	0.18	
7.870	11510	11400	0.990	0.02	
7.901	692950	604450	0.872	1.21	8 Aroclor 1260
7.962	80141	58496	0.730	0.14	
8.050	79891	63457	0.794	0.13	
8.275	543652	488138	0.898	0.95	
8.383	19680	14132	0.718	0.03	
8.452	15795	12812	0.811	0.02	
8.571	3776597	3232287	0.856	6.61	$ 12 Decachlorobiphenyl
8.724	11300	12725	1.126	0.01	
8.943	20688	11968	0.579	0.03	
9.057	11524	9999	0.868	0.02	
9.170	76337	62469	0.818	0.13	
9.464	28162	14542	0.516	0.04	
9.963	20646	15271	0.740	0.03	
	57095889	48480932		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118014.D
Lab Smp Id: 40157698007 Client Smp ID: ND5-170615-01-SMB-0
Inj Date : 11-APR-2018 17:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698007 x3,
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: 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	9.988	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	3620879	0.02937	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	970354	0.41415	620	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	735066	0.17711	260	0.00- 20.00	75.75	BA
4.812	4.812	0.000	535163	0.26362	400	0.00- 20.00	55.15	BA
4.893	4.879	0.014	1504058	0.29858	450	0.00- 20.00	155.00	BA
5.036	5.038	-0.002	378580	0.10550	160	0.00- 20.00	39.01	BA
Average of Peak Concentrations =					380			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1719812	0.32851	490	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	1107664	0.25753	390	0.00- 20.00	64.41	BA
5.509	5.510	-0.001	1699007	0.21877	330	0.00- 20.00	98.79	BA
6.025	6.027	-0.002	1116569	0.22929	340	0.00- 20.00	64.92	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					390			
8 Aroclor 1260					CAS #: 11096-82-5			
6.301	6.300	0.001	4028906	0.45461	680	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1632576	0.16302	240	0.00- 20.00	40.52	BA
7.251	7.251	0.000	762469	0.15952	240	0.00- 20.00	18.92	BA
7.442	7.443	-0.001	822540	0.28216	420	0.00- 20.00	20.42	BA
7.899	7.901	-0.002	692949	0.26261	390	0.00- 20.00	17.20	BA
Average of Peak Concentrations =					400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3776596	0.03447	52			

QC Flag Legend

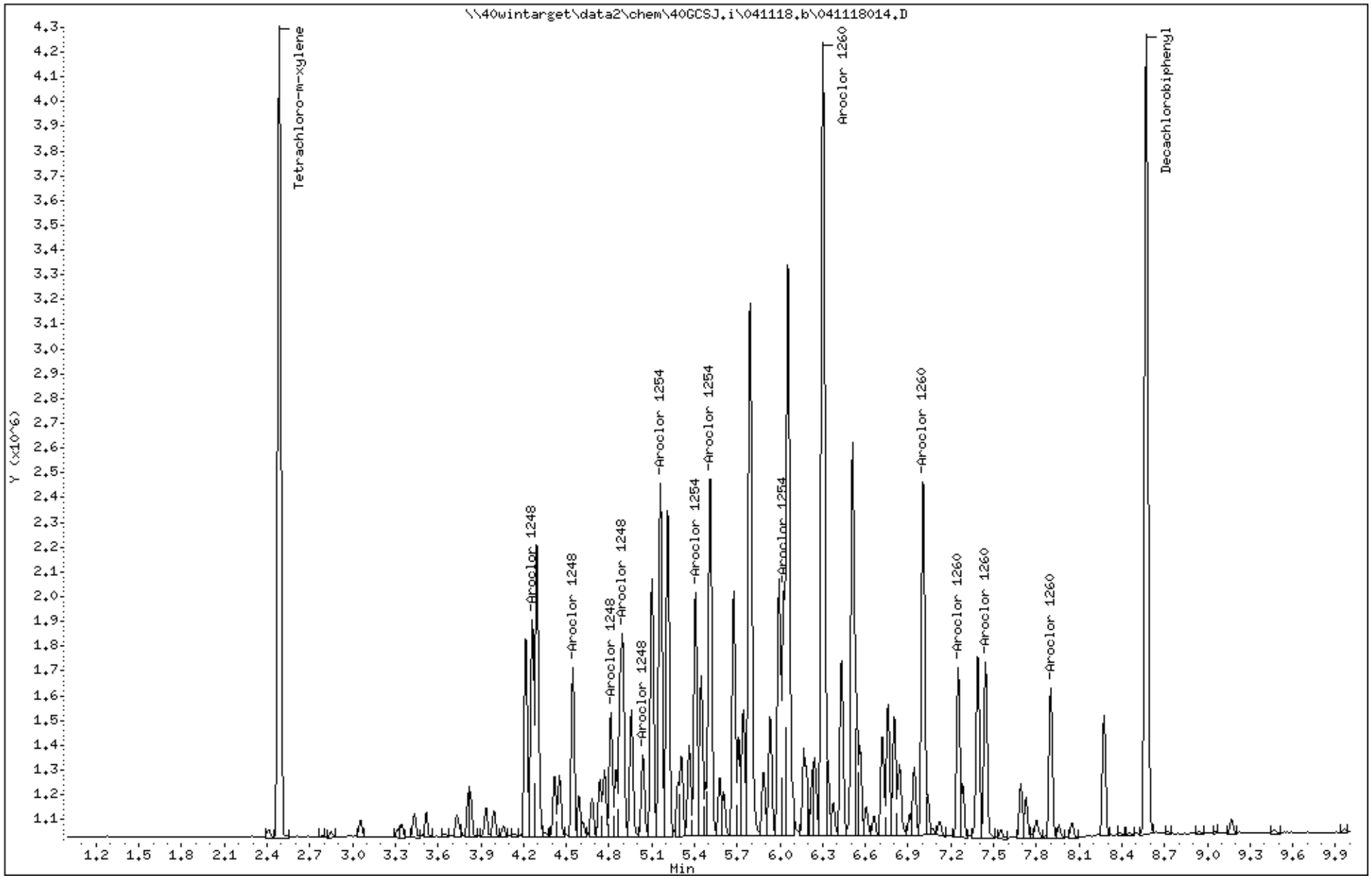
M - Compound response manually integrated.

Review Codes Legend

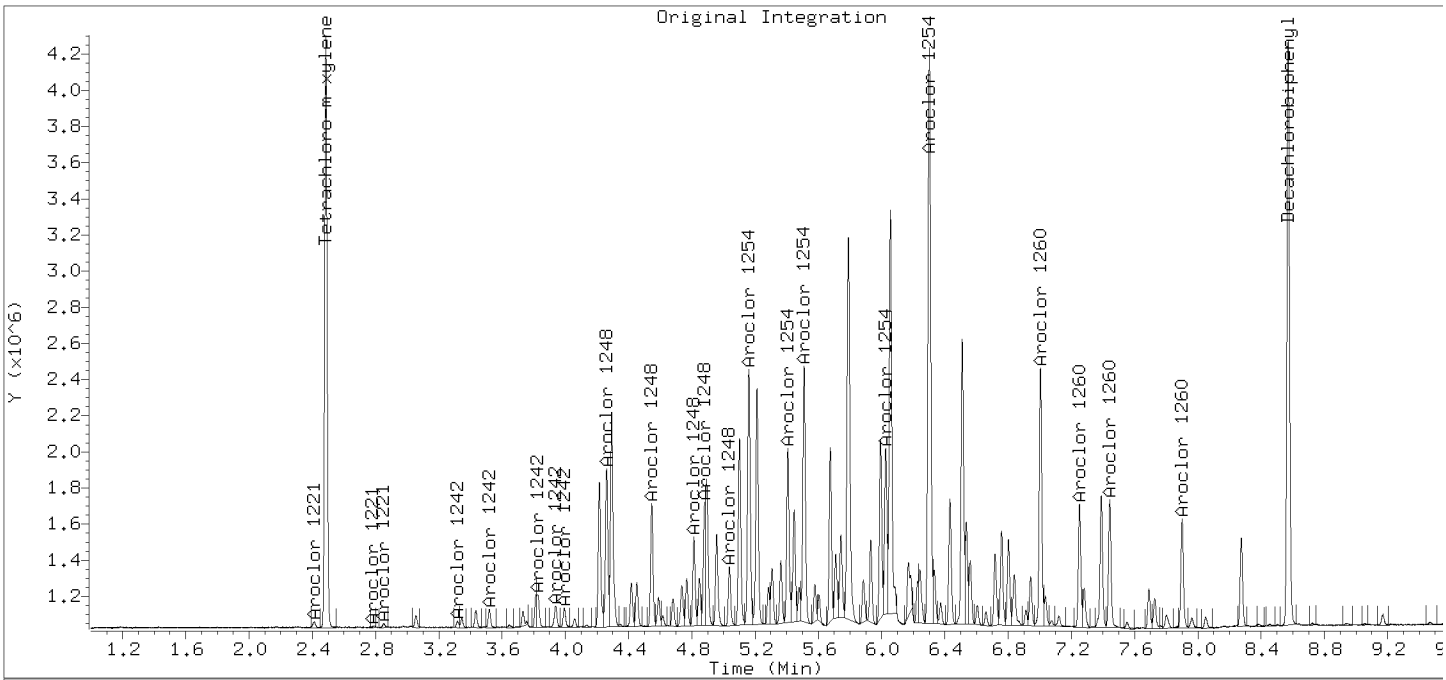
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

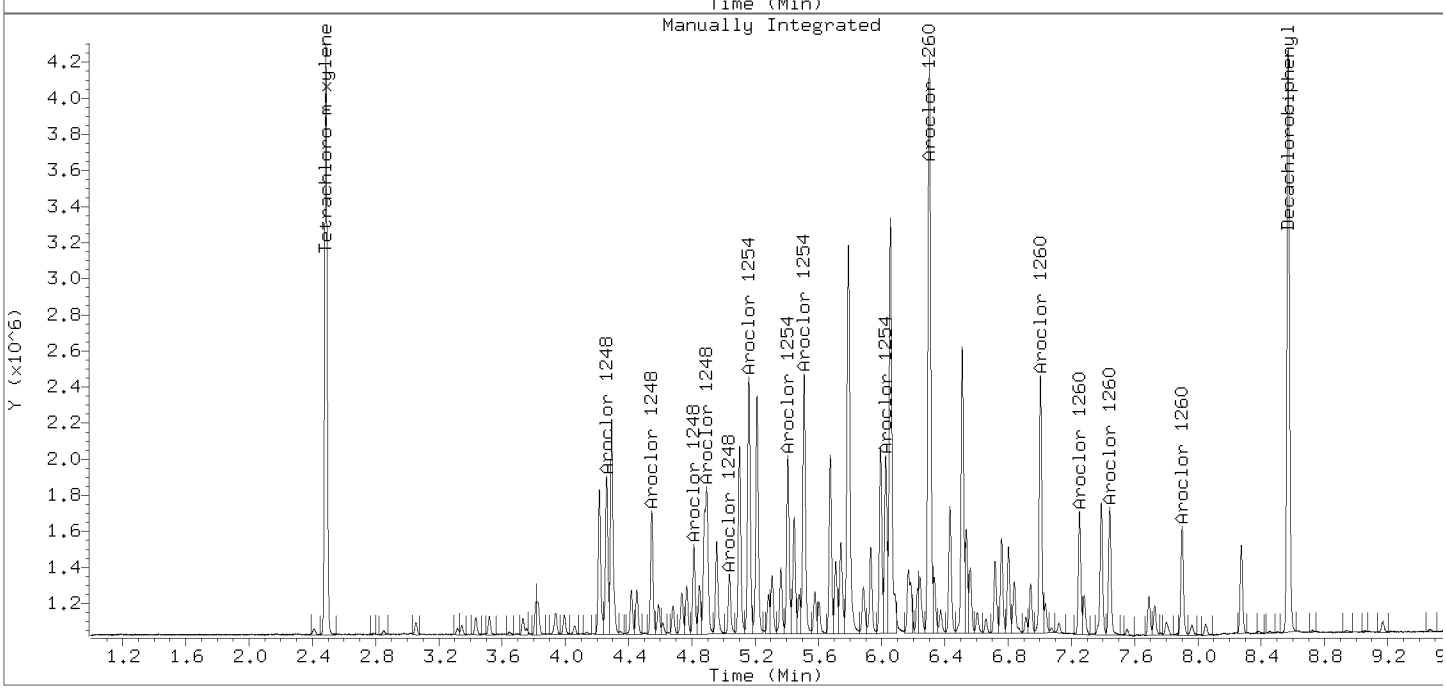
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118014.D
Date : 11-APR-2018 17:10
Client ID: ND5-170615-01-SMB-0
Sample Info: 40157698007 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 17:10 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	36790	0	
Aroclor 1016	36790	0	
Aroclor 1016	36790	0	
Aroclor 1016	36790	0	
Aroclor 1016	36790	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	28889	0	
Aroclor 1232	28889	0	
Aroclor 1232	28889	0	
Aroclor 1232	28889	0	

Aroclor 1232	28889	0	
Aroclor 1242	36790	0	
Aroclor 1242	36790	0	
Aroclor 1242	36790	0	
Aroclor 1242	36790	0	
Aroclor 1242	36790	0	
Aroclor 1248	963180	970354	BA
Aroclor 1248	963180	970354	BA
Aroclor 1248	963180	970354	BA
Aroclor 1248	963180	970354	BA
Aroclor 1248	963180	970354	BA
Aroclor 1254	1678571	1719812	BA
Aroclor 1254	1678571	1719812	BA
Aroclor 1254	1678571	1719812	BA
Aroclor 1254	1678571	1719812	BA
Aroclor 1254	1678571	1719812	BA
Aroclor 1260	3978521	4028906	BA
Aroclor 1260	3978521	4028906	BA
Aroclor 1260	3978521	4028906	BA
Aroclor 1260	3978521	4028906	BA
Aroclor 1260	3978521	4028906	BA
Tetrachloro-m-xylene	3620879	3620879	
Decachlorobiphenyl	3776596	3776596	

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SAMPLE NO.

ND5-170615-01-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/12/2018 07:14
Lab Sample ID: 40157698008
Date Analyzed: 04/13/2018 19:02
Lab File ID: 041318.B\041318021.D
Initial wt/vol: 9.9712 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)	<22.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	416	
11097-69-1	PCB-1254 (Aroclor 1254)	244	
11096-82-5	PCB-1260 (Aroclor 1260)	90.6	J
1336-36-3	PCB, Total	750	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318021.D
Lab Smp Id: 40157698008 Client Smp ID: ND5-170615-01-LMB-0
Inj Date : 13-APR-2018 19:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698008 x2,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
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	9.971	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.688	11476	10019	0.873	0.02		
2.411	52381	40263	0.769	0.10		
2.485	5048719	4806885	0.952	9.85	$ 2 Tetrachloro-m-xylene	
2.790	22242	16996	0.764	0.04		
2.853	40667	30494	0.750	0.07		
2.975	11049	8691	0.787	0.02		
3.053	95864	86948	0.907	0.18		
3.318	76484	78855	1.031	0.14		
3.343	105306	96156	0.913	0.20		
3.433	199064	187384	0.941	0.38		
3.519	206767	188485	0.912	0.40		
3.643	31242	26132	0.836	0.06		
3.732	187918	184026	0.979	0.36		
3.755	86504	81519	0.942	0.16		
3.814	299484	396704	1.325	0.58		
3.827	510807	448423	0.878	0.99		
3.939	199490	167572	0.840	0.38		
3.992	194818	176270	0.905	0.38		
4.058	106206	94834	0.893	0.20		
4.136	24600	14558	0.592	0.04		
4.215	1608286	1467273	0.912	3.13		
4.261	1604203	1495760	0.932	3.13	6 Aroclor 1248	BA
4.292	1915998	1568214	0.818	3.74		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	548901	523657	0.954	1.07	
4.452	491518	444838	0.905	0.95	
4.545	1240535	1142838	0.921	2.42	6 Aroclor 1248
4.589	160894	147651	0.918	0.31	
4.617	105627	93006	0.881	0.20	
4.680	153983	135319	0.879	0.30	
4.737	226941	167916	0.740	0.44	
4.767	297326	275890	0.928	0.58	
4.813	921102	875290	0.950	1.79	6 Aroclor 1248
4.848	692174	668824	0.966	1.35	
4.880	2034670	1172509	0.576	3.97	6 Aroclor 1248
4.957	535378	469643	0.877	1.04	
5.036	827286	742612	0.898	1.61	6 Aroclor 1248
5.100	873009	749819	0.859	1.70	
5.161	1538850	1311336	0.852	3.00	7 Aroclor 1254
5.212	1204843	1050118	0.872	2.35	
5.283	158435	144576	0.913	0.30	
5.308	208893	175441	0.840	0.40	
5.362	445412	403403	0.906	0.86	
5.406	926348	849239	0.917	1.80	7 Aroclor 1254
5.451	2702972	2423490	0.897	5.27	
5.510	1660090	1380979	0.832	3.24	7 Aroclor 1254
5.577	166551	147219	0.884	0.32	
5.604	209046	173471	0.830	0.40	
5.674	462232	424347	0.918	0.90	
5.712	207675	162868	0.784	0.40	
5.742	461509	355067	0.769	0.90	
5.788	2174490	1596036	0.734	4.24	
5.885	200775	145547	0.725	0.39	
5.931	252915	196405	0.777	0.49	
5.993	548543	515487	0.940	1.07	
6.024	819047	705540	0.861	1.59	7 Aroclor 1254
6.055	1378834	1180393	0.856	2.69	
6.168	271435	195891	0.722	0.52	
6.227	254706	154568	0.607	0.49	
6.301	2114527	1658168	0.784	4.12	7 Aroclor 1254
6.332	192853	177820	0.922	0.37	
6.373	90576	71599	0.790	0.17	
6.432	262054	223199	0.852	0.51	
6.509	964741	862638	0.894	1.88	
6.535	335067	320284	0.956	0.65	
6.560	195370	174605	0.894	0.38	
6.604	65927	56185	0.852	0.12	
6.659	35898	29969	0.835	0.07	
6.717	165294	140421	0.850	0.32	
6.757	197075	171959	0.873	0.38	
6.803	265558	228929	0.862	0.51	
6.839	127011	95900	0.755	0.24	
6.911	33309	34900	1.048	0.06	
6.943	133496	124023	0.929	0.26	
7.003	693873	601957	0.868	1.35	8 Aroclor 1260
7.036	82812	74983	0.905	0.16	
7.075	15430	13328	0.864	0.03	
7.121	19778	12316	0.623	0.03	
7.249	321573	286609	0.891	0.62	8 Aroclor 1260
7.282	116267	93862	0.807	0.22	
7.389	356287	303008	0.850	0.69	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.440	347599	301312	0.867	0.67	8 Aroclor 1260
7.553	14854	15920	1.072	0.02	
7.689	99261	88335	0.890	0.19	
7.726	71689	61060	0.852	0.13	
7.798	56329	35759	0.635	0.10	
7.899	278872	235533	0.845	0.54	8 Aroclor 1260
7.960	33337	24074	0.722	0.06	
8.048	28917	23613	0.817	0.05	
8.274	236874	193849	0.818	0.46	
8.379	14436	9354	0.648	0.02	
8.570	5227842	4416256	0.845	10.66	$ 12 Decachlorobiphenyl
9.168	32135	24443	0.761	0.06	
	51229443	44159864		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318021.D
Lab Smp Id: 40157698008 Client Smp ID: ND5-170615-01-LMB-0
Inj Date : 13-APR-2018 19:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698008 x2,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
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	9.971	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	5048719	0.04095	41			

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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	1604203	0.68469	690	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1240535	0.29890	300	0.00- 20.00	77.33	BA
4.813	4.812	0.001	921102	0.45373	460	0.00- 20.00	57.42	BA
4.879	4.879	0.000	2034669	0.40391	400	0.00- 20.00	126.83	BA
5.036	5.038	-0.002	827286	0.23054	230	0.00- 20.00	51.57	BA
Average of Peak Concentrations =					420			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1538850	0.29394	290	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	926347	0.21538	220	0.00- 20.00	60.20	BA
5.509	5.510	-0.001	1660090	0.21376	210	0.00- 20.00	107.88	BA
6.024	6.027	-0.003	819047	0.16819	170	0.00- 20.00	53.22	BA
6.300	6.299	0.001	2114527	0.32496	320	0.00- 20.00	137.41	BA
Average of Peak Concentrations =					240			
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	693873	0.06929	69	0.00- 20.00	32.81	BA
7.249	7.251	-0.002	321572	0.06728	67	0.00- 20.00	15.21	BA
7.440	7.443	-0.003	347598	0.11924	120	0.00- 20.00	16.44	BA
7.899	7.901	-0.002	278871	0.10568	100	0.00- 20.00	13.19	BA
Average of Peak Concentrations =					91			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5227841	0.04772	48			

QC Flag Legend

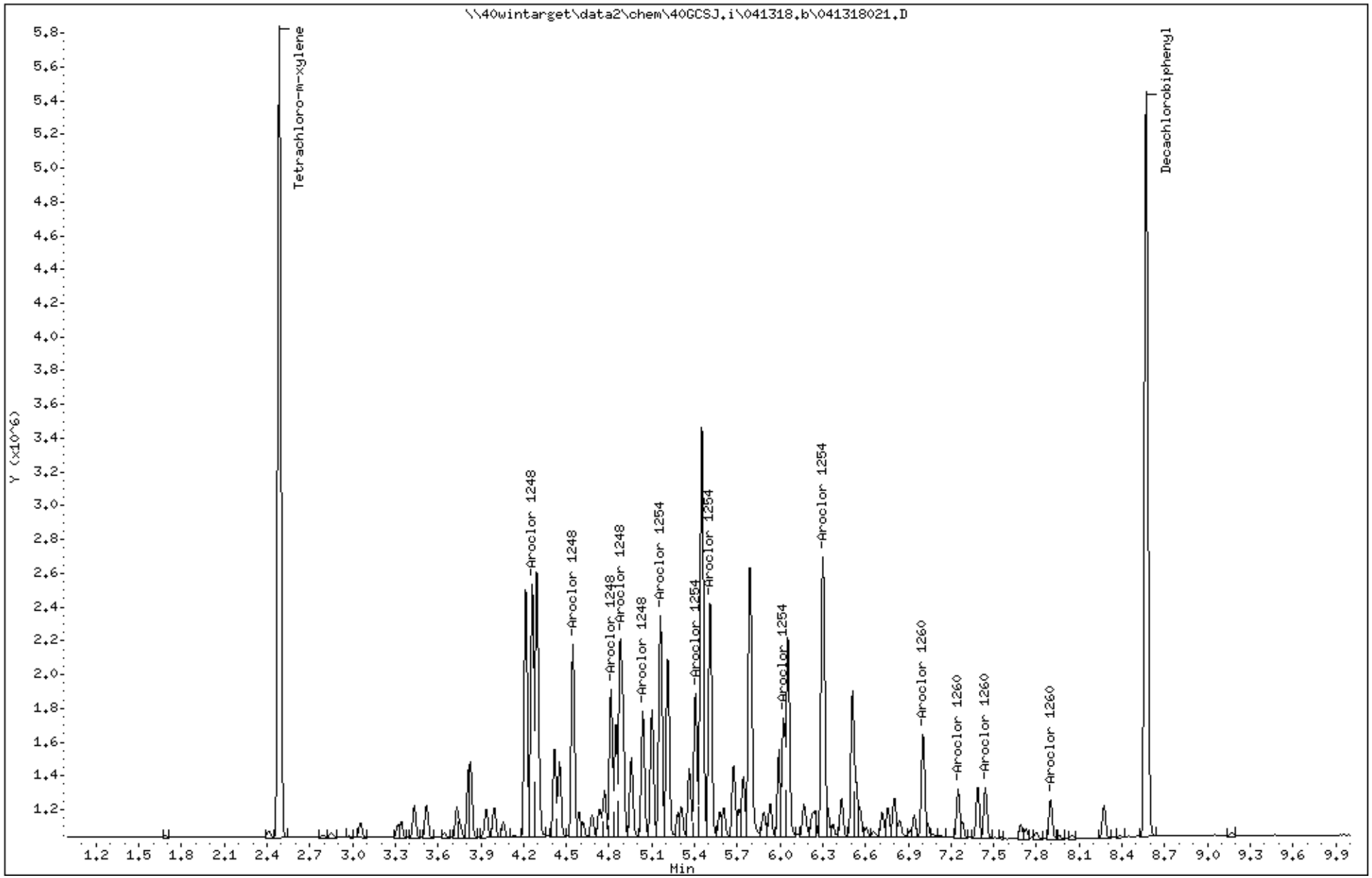
M - Compound response manually integrated.

Review Codes Legend

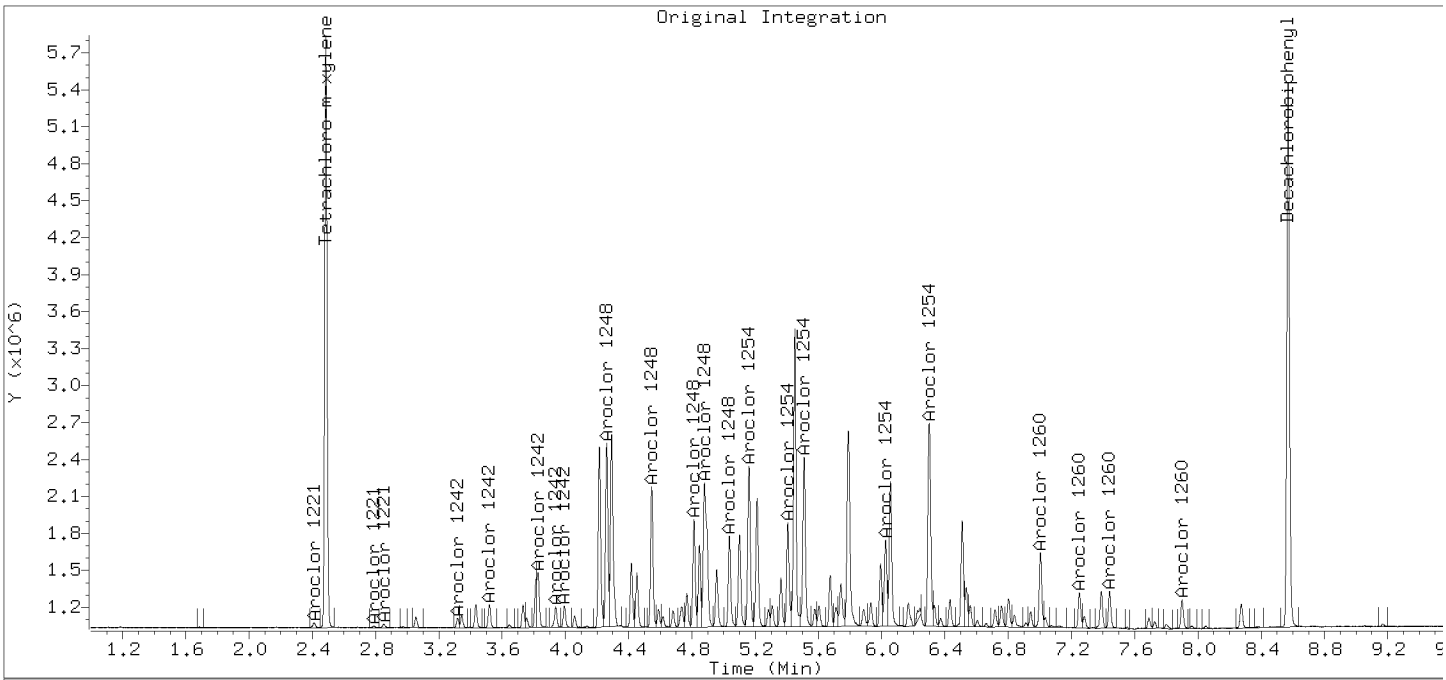
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

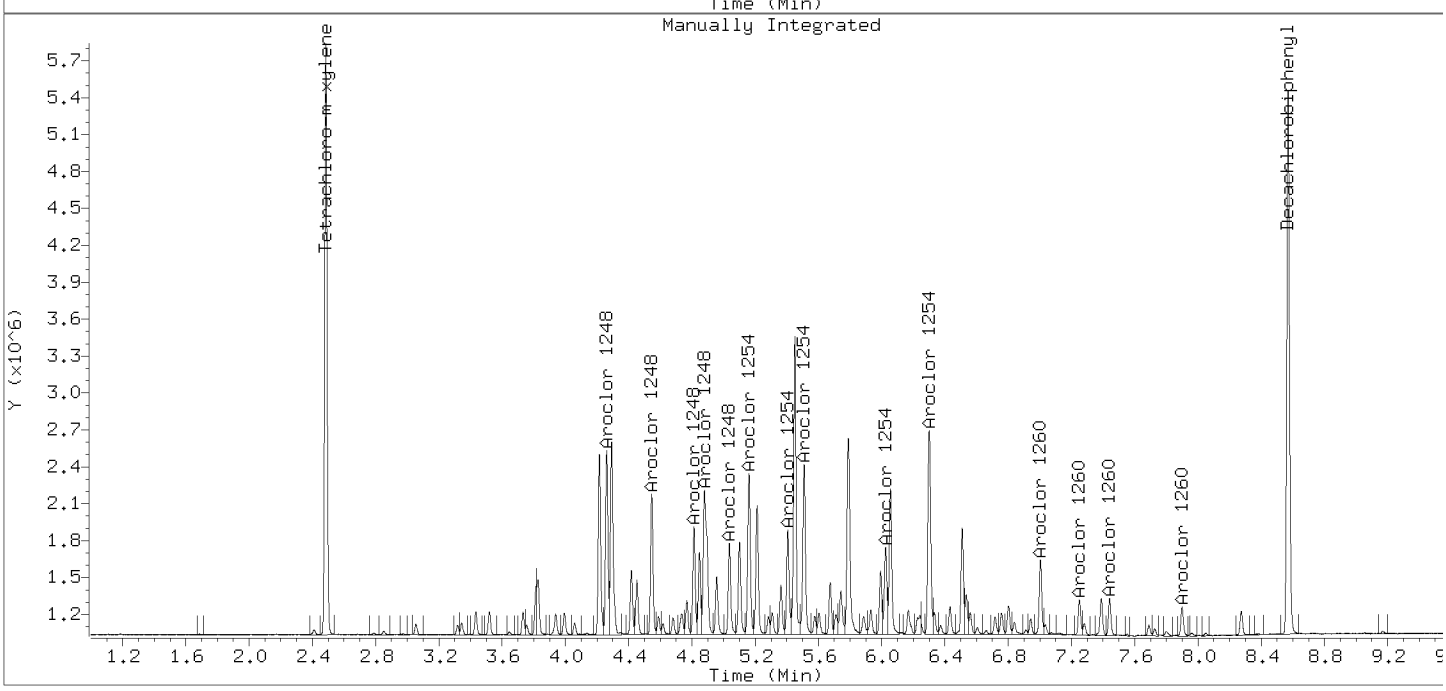
Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318021.D
Date : 13-APR-2018 19:02
Client ID: ND5-170615-01-LMB-0
Sample Info: 40157698008 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-APR-2018 19:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	76484	0	
Aroclor 1016	76484	0	
Aroclor 1016	76484	0	
Aroclor 1016	76484	0	
Aroclor 1016	76484	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	40666	0	
Aroclor 1232	40666	0	
Aroclor 1232	40666	0	
Aroclor 1232	40666	0	

Aroclor 1232	40666	0	
Aroclor 1242	76484	0	
Aroclor 1242	76484	0	
Aroclor 1242	76484	0	
Aroclor 1242	76484	0	
Aroclor 1242	76484	0	
Aroclor 1248	1580874	1604203	BA
Aroclor 1248	1580874	1604203	BA
Aroclor 1248	1580874	1604203	BA
Aroclor 1248	1580874	1604203	BA
Aroclor 1248	1580874	1604203	BA
Aroclor 1254	1520494	1538850	BA
Aroclor 1254	1520494	1538850	BA
Aroclor 1254	1520494	1538850	BA
Aroclor 1254	1520494	1538850	BA
Aroclor 1254	1520494	1538850	BA
Aroclor 1260	2089674	0	BA
Aroclor 1260	2089674	0	BA
Aroclor 1260	2089674	0	BA
Aroclor 1260	2089674	0	BA
Aroclor 1260	2089674	0	BA
Tetrachloro-m-xylene	5048719	5048719	
Decachlorobiphenyl	5227841	5227841	

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SAMPLE NO.

ND5-170615-01-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/12/2018 07:14
Lab Sample ID: 40157698009
Date Analyzed: 04/13/2018 19:18
Lab File ID: 041318.B\041318022.D
Initial wt/vol: 9.9904 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)	72.0	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)	287	
11097-69-1	PCB-1254 (Aroclor 1254)	150	
11096-82-5	PCB-1260 (Aroclor 1260)	62.5	J
1336-36-3	PCB, Total	571	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318022.D
Lab Smp Id: 40157698009 Client Smp ID: ND5-170615-01-LMB-0
Inj Date : 13-APR-2018 19:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698009 x2,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
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	9.990	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.534	11868	7621	0.642	0.03		
2.169	9904	7491	0.756	0.02		
2.314	9979	8765	0.878	0.02		
2.411	114638	82824	0.722	0.29	1 Aroclor 1221	BA
2.485	5351418	4905599	0.917	13.87	$ 2 Tetrachloro-m-xylene	BA
2.684	20557	13777	0.670	0.05	1 Aroclor 1221	BA
2.790	42363	32918	0.777	0.10	1 Aroclor 1221	BA
2.852	82142	64051	0.780	0.21	1 Aroclor 1221	BA
2.976	18175	11663	0.642	0.04		
3.056	115016	101314	0.881	0.29		
3.317	161173	148778	0.923	0.41		
3.345	153635	138378	0.901	0.39		
3.433	201078	179626	0.893	0.52		
3.519	252549	220714	0.874	0.65		
3.645	33941	27180	0.801	0.08		
3.732	321957	309305	0.961	0.83		
3.755	112362	102217	0.910	0.29		
3.813	1086533	646786	0.595	2.81		
3.938	211281	157292	0.744	0.54		
3.994	194889	180485	0.926	0.50		
4.058	92396	79769	0.863	0.23		
4.134	21575	17093	0.792	0.05		
4.215	1361905	1230231	0.903	3.53		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	1244630	1167663	0.938	3.22	6 Aroclor 1248
4.293	1494961	1252030	0.838	3.87	
4.417	357302	326717	0.914	0.92	
4.451	340602	289895	0.851	0.88	
4.546	901020	814067	0.903	2.33	6 Aroclor 1248
4.589	111829	103249	0.923	0.29	
4.618	89608	73190	0.817	0.23	
4.680	95446	83908	0.879	0.24	
4.736	117778	87885	0.746	0.30	
4.768	186367	169051	0.907	0.48	
4.813	600502	563701	0.939	1.55	6 Aroclor 1248
4.847	434466	406239	0.935	1.12	
4.880	1388923	780268	0.562	3.60	6 Aroclor 1248
4.956	338880	290293	0.857	0.87	
5.037	402127	353048	0.878	1.04	6 Aroclor 1248
5.100	586246	507670	0.866	1.52	
5.160	962890	840824	0.873	2.49	7 Aroclor 1254
5.212	808522	705991	0.873	2.09	
5.284	105499	97239	0.922	0.27	
5.307	142174	117172	0.824	0.36	
5.362	262230	237118	0.904	0.68	
5.406	516328	458746	0.888	1.33	7 Aroclor 1254
5.448	589955	508664	0.862	1.53	
5.479	66283	71239	1.075	0.17	
5.510	994191	843544	0.848	2.57	7 Aroclor 1254
5.576	85683	71793	0.838	0.22	
5.603	104521	87719	0.839	0.27	
5.675	319571	292471	0.915	0.82	
5.710	151192	118496	0.784	0.39	
5.741	263561	206352	0.783	0.68	
5.789	1467931	1116805	0.761	3.80	
5.884	136079	91762	0.674	0.35	
5.931	122515	98698	0.806	0.31	
5.993	297254	272296	0.916	0.77	
6.023	539396	463737	0.860	1.39	7 Aroclor 1254
6.055	866988	744775	0.859	2.24	
6.168	180393	110936	0.615	0.46	
6.241	188838	98983	0.524	0.48	
6.300	1342264	1092553	0.814	3.48	7 Aroclor 1254
6.332	119737	111097	0.928	0.31	
6.373	60427	43065	0.713	0.15	
6.433	144546	118877	0.822	0.37	
6.509	546879	494725	0.905	1.41	
6.536	245737	217437	0.885	0.63	
6.560	99361	91222	0.918	0.25	
6.605	38935	31792	0.817	0.10	
6.662	28447	22007	0.774	0.07	
6.718	111750	95712	0.856	0.28	
6.758	122075	103169	0.845	0.31	
6.801	152111	136638	0.898	0.39	
6.838	138792	108037	0.778	0.35	
6.913	25703	24656	0.959	0.06	
6.941	75307	69413	0.922	0.19	
7.003	342922	305029	0.889	0.88	8 Aroclor 1260
7.033	34442	37398	1.086	0.08	
7.122	18029	16988	0.942	0.04	
7.250	169254	148640	0.878	0.43	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.283	67896	51253	0.755	0.17	
7.388	373245	320054	0.857	0.96	
7.443	341332	293892	0.861	0.88	8 Aroclor 1260
7.689	41950	41183	0.982	0.10	
7.727	113244	99960	0.883	0.29	
7.799	50853	38019	0.748	0.13	
7.900	165906	137798	0.831	0.43	8 Aroclor 1260
7.959	22129	12360	0.559	0.05	
8.046	20861	17385	0.833	0.05	
8.274	309087	274918	0.889	0.80	
8.571	5356582	4578122	0.855	14.41	$ 12 Decachlorobiphenyl
8.727	13650	10314	0.756	0.03	
9.169	17676	15608	0.883	0.04	
	38555144	32757432		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318022.D
Lab Smp Id: 40157698009 Client Smp ID: ND5-170615-01-LMB-0
Inj Date : 13-APR-2018 19:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698009 x2,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
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	9.990	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
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	114637	0.20925	210	0.00- 20.00	0.00	BA
2.683	2.688	-0.005	20556	0.01486	15	0.00- 20.00	0.00	BA
2.790	2.789	0.001	42362	0.03831	38	0.00- 20.00	0.00	BA
2.852	2.851	0.001	82141	0.02523	25	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					72			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5351417	0.04340	43		(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	1244630	0.53122	530	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	901019	0.21710	220	0.00- 20.00	72.39	BA
4.812	4.812	0.000	600502	0.29580	300	0.00- 20.00	48.25	BA
4.879	4.879	0.000	1388923	0.27572	280	0.00- 20.00	111.59	BA
5.036	5.038	-0.002	402126	0.11206	110	0.00- 20.00	32.31	BA
Average of Peak Concentrations =					290			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	962890	0.18392	180	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	516327	0.12005	120	0.00- 20.00	53.62	BA
5.509	5.510	-0.001	994190	0.12802	130	0.00- 20.00	103.25	BA
6.023	6.027	-0.004	539395	0.11077	110	0.00- 20.00	56.02	BA
6.300	6.299	0.001	1342263	0.20628	210	0.00- 20.00	139.40	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)	CO
7.002	7.006	-0.004	342922	0.03424	34	0.00- 20.00	28.08	CO
7.250	7.251	-0.001	169253	0.03541	35	0.00- 20.00	12.61	CO
7.442	7.443	-0.001	341332	0.11709	120	0.00- 20.00	25.43	CO
7.899	7.901	-0.002	165906	0.06287	63	0.00- 20.00	12.36	CO
Average of Peak Concentrations =					62			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5356582	0.04889	49			

QC Flag Legend

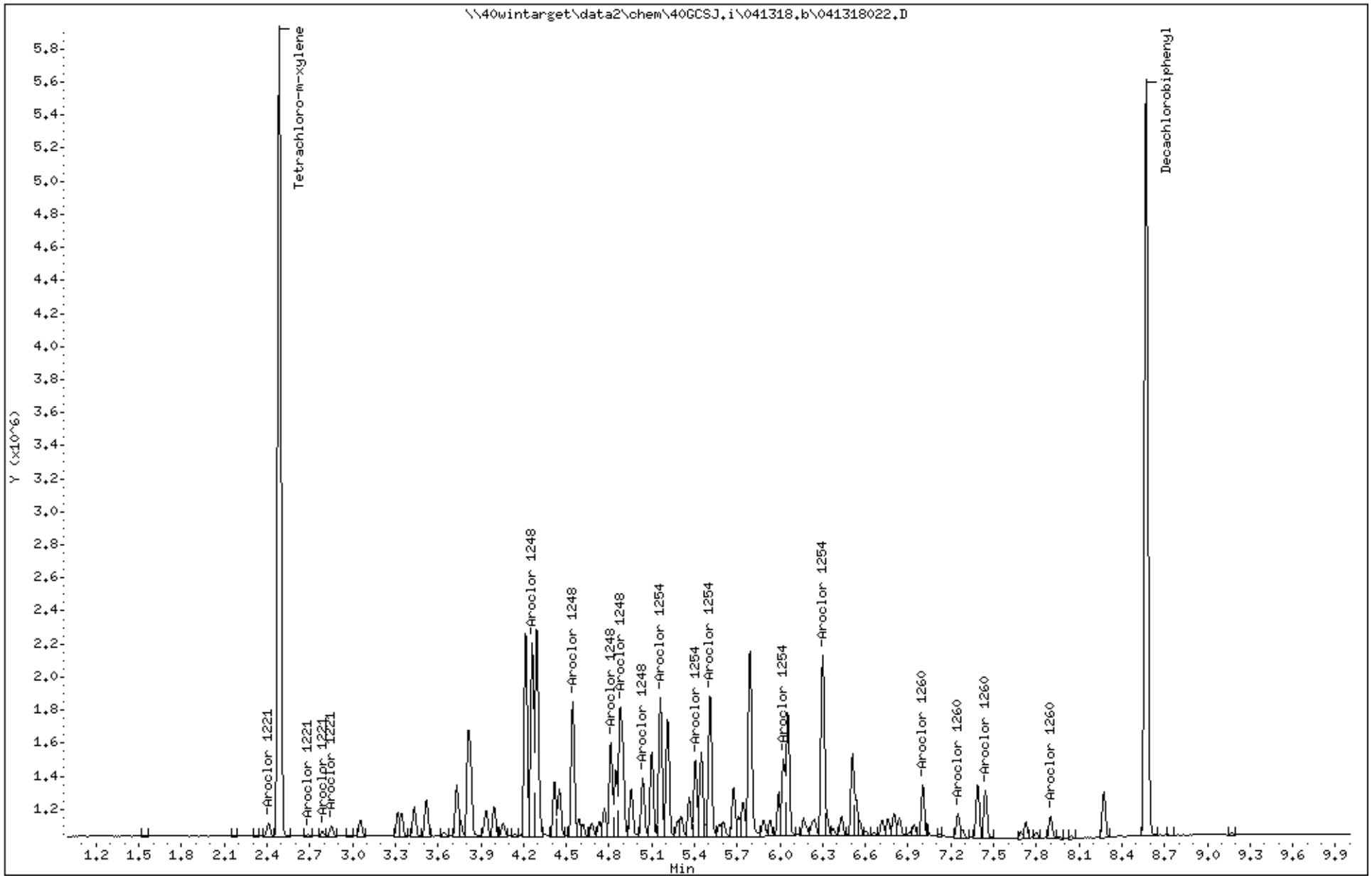
M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318022.D
Date : 13-APR-2018 19:18
Client ID: ND5-170615-01-LMB-0
Sample Info: 40157698009 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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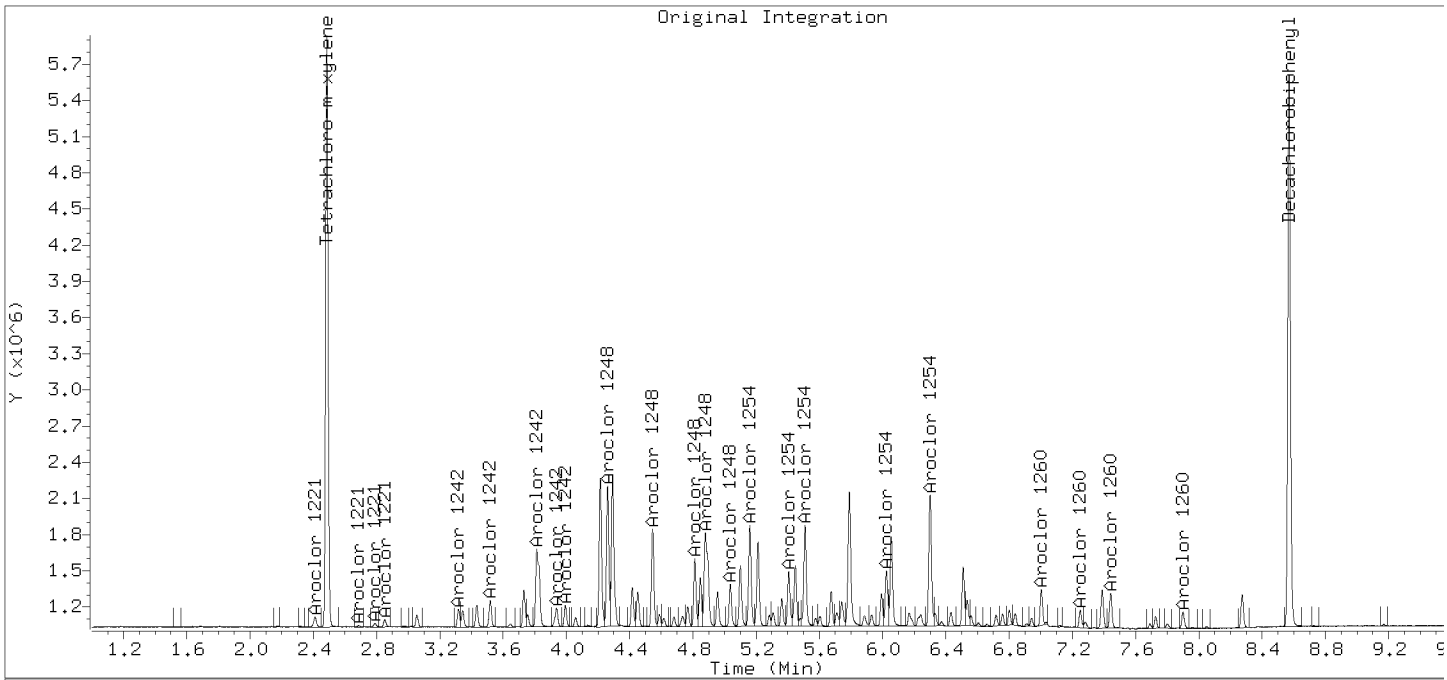
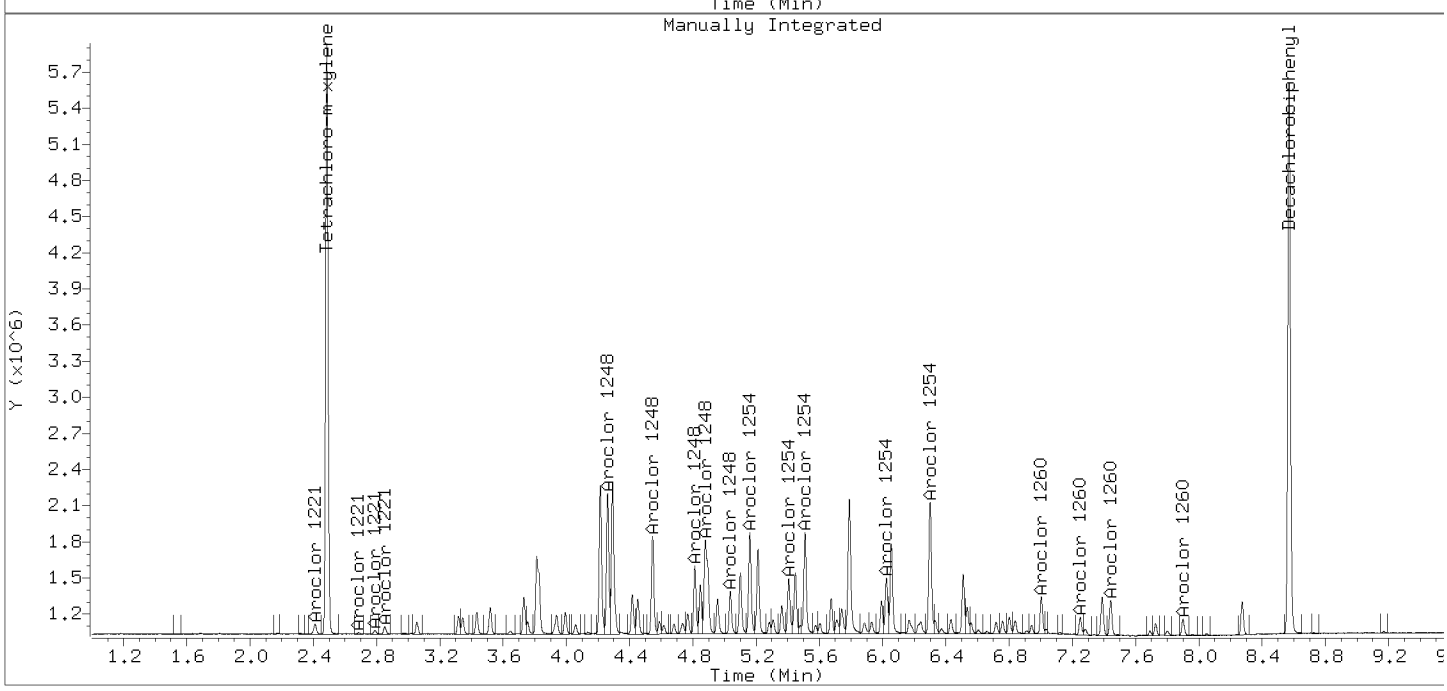
Injection Date: 13-APR-2018 19:18 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	158446	0	
Aroclor 1016	158446	0	
Aroclor 1016	158446	0	
Aroclor 1016	158446	0	
Aroclor 1016	158446	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	74239	0	
Aroclor 1232	74239	0	
Aroclor 1232	74239	0	
Aroclor 1232	74239	0	

Aroclor 1232	74239	0	
Aroclor 1242	158446	0	
Aroclor 1242	158446	0	
Aroclor 1242	158446	0	
Aroclor 1242	158446	0	
Aroclor 1242	158446	0	
Aroclor 1248	1231160	1244630	BA
Aroclor 1248	1231160	1244630	BA
Aroclor 1248	1231160	1244630	BA
Aroclor 1248	1231160	1244630	BA
Aroclor 1248	1231160	1244630	BA
Aroclor 1254	948348	962890	BA
Aroclor 1254	948348	962890	BA
Aroclor 1254	948348	962890	BA
Aroclor 1254	948348	962890	BA
Aroclor 1254	948348	962890	BA
Aroclor 1260	1320952	0	CO
Aroclor 1260	1320952	0	CO
Aroclor 1260	1320952	0	CO
Aroclor 1260	1320952	0	CO
Aroclor 1260	1320952	0	CO
Tetrachloro-m-xylene	5338329	5351417	BA
Decachlorobiphenyl	5356582	5356582	

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SAMPLE NO.

ND5-170615-01-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/12/2018 07:14
Lab Sample ID: 40157698010
Date Analyzed: 04/13/2018 19:34
Lab File ID: 041318.B\041318023.D
Initial wt/vol: 9.9685 g Final wt/vol: 5 mL Dilution: 15
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<172	U
11104-28-2	PCB-1221 (Aroclor 1221)	<172	U
11141-16-5	PCB-1232 (Aroclor 1232)	<172	U
53469-21-9	PCB-1242 (Aroclor 1242)	<172	U
12672-29-6	PCB-1248 (Aroclor 1248)	2740	
11097-69-1	PCB-1254 (Aroclor 1254)	1490	
11096-82-5	PCB-1260 (Aroclor 1260)	520	J
1336-36-3	PCB, Total	4750	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318023.D
Lab Smp Id: 40157698010 Client Smp ID: ND5-170615-01-LMB-0
Inj Date : 13-APR-2018 19:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698010 x15,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
Dil Factor: 15.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	15.000	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
2.411	40419	29309	0.725	0.11		
2.485	733183	672284	0.917	2.04	$ 2 Tetrachloro-m-xylene	
2.850	23043	20241	0.878	0.06		
2.965	9260	5600	0.605	0.02		
3.056	73261	66636	0.910	0.20		
3.316	67764	63588	0.938	0.18		
3.345	90977	82134	0.903	0.25		
3.433	209862	191305	0.912	0.58		
3.520	202275	185740	0.918	0.56		
3.646	35981	30788	0.856	0.10		
3.733	282164	266235	0.944	0.78		
3.754	89756	84885	0.946	0.25		
3.814	441255	475948	1.079	1.23		
3.826	445156	457269	1.027	1.24		
3.938	298832	253168	0.847	0.83		
3.992	179529	165778	0.923	0.50		
4.056	78978	69826	0.884	0.22		
4.138	19689	16579	0.842	0.05		
4.215	1733230	1562967	0.902	4.83		
4.261	1781798	1636944	0.919	4.96	6 Aroclor 1248	BA
4.292	2315965	1926187	0.832	6.87		
4.346	30377	22868	0.753	0.08		
4.417	416904	389366	0.934	1.16		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	415404	369095	0.889	1.15	
4.545	1081724	990999	0.916	3.01	6 Aroclor 1248
4.588	186525	166105	0.891	0.52	
4.617	76268	70871	0.929	0.21	
4.681	167467	148137	0.885	0.46	
4.736	208635	169422	0.812	0.58	
4.767	265127	251241	0.948	0.73	
4.812	655780	632644	0.965	1.82	6 Aroclor 1248
4.847	453359	422935	0.933	1.26	
4.892	1713357	864146	0.504	4.77	6 Aroclor 1248
4.956	473548	403940	0.853	1.32	
5.037	501747	455953	0.909	1.39	6 Aroclor 1248
5.101	863696	766082	0.887	2.40	
5.160	1238369	1069437	0.864	3.45	7 Aroclor 1254
5.212	968038	854091	0.882	2.69	
5.285	153987	144615	0.939	0.42	
5.305	241012	206586	0.857	0.67	
5.363	321818	289402	0.899	0.89	
5.405	743229	669787	0.901	2.07	7 Aroclor 1254
5.446	502033	407360	0.811	1.39	
5.479	92732	92695	1.000	0.25	
5.509	1352875	1177524	0.870	3.77	7 Aroclor 1254
5.577	129123	113692	0.880	0.36	
5.603	144900	125314	0.865	0.40	
5.674	549578	524932	0.955	1.53	
5.710	222783	184661	0.829	0.62	
5.742	366343	285261	0.779	1.02	
5.790	1737174	1312611	0.756	4.84	
5.884	179952	135057	0.751	0.50	
5.931	214885	178664	0.831	0.59	
5.993	465531	427581	0.918	1.29	
6.026	628105	543669	0.866	1.75	7 Aroclor 1254
6.055	1128499	985714	0.873	3.14	
6.168	229373	154455	0.673	0.63	
6.228	80995	101779	1.257	0.22	
6.242	174361	135442	0.777	0.48	
6.301	1789776	1441296	0.805	4.99	7 Aroclor 1254
6.332	152775	139978	0.916	0.42	
6.373	72497	55951	0.772	0.20	
6.431	262413	220238	0.839	0.73	
6.510	741889	645310	0.870	2.06	
6.534	291942	276296	0.946	0.81	
6.559	155226	135505	0.873	0.43	
6.604	51784	44460	0.859	0.14	
6.660	32171	29553	0.919	0.08	
6.718	169887	147758	0.870	0.47	
6.759	199847	179604	0.899	0.55	
6.802	209753	184595	0.880	0.58	
6.839	116619	87297	0.749	0.32	
6.910	29989	26370	0.879	0.08	
6.941	97022	86653	0.893	0.27	
7.004	529566	479569	0.906	1.47	8 Aroclor 1260
7.035	68288	63372	0.928	0.19	
7.072	12545	13594	1.084	0.03	
7.122	16065	12853	0.800	0.04	
7.250	270970	239330	0.883	0.75	8 Aroclor 1260
7.279	94375	75600	0.801	0.26	

Data File: ...wintarget\data2\chem\40GCSJ.i\041318.b\041318023.D Page 3
Report Date: 19-Apr-2018 09:50

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.388	293601	250163	0.852	0.81	
7.442	269631	226320	0.839	0.75	8 Aroclor 1260
7.553	16840	15108	0.897	0.04	
7.690	83465	71876	0.861	0.23	
7.726	54797	46691	0.852	0.15	
7.801	32695	22431	0.686	0.09	
7.899	196980	168986	0.858	0.54	8 Aroclor 1260
7.963	33181	19895	0.600	0.09	
8.273	146887	125609	0.855	0.40	
8.569	824321	721764	0.876	2.29	$ 12 Decachlorobiphenyl
9.168	20261	16711	0.825	0.05	
	35866051	30778280		100.000	

Total unknown % area = 60

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318023.D
Lab Smp Id: 40157698010 Client Smp ID: ND5-170615-01-LMB-0
Inj Date : 13-APR-2018 19:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698010 x15,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
Dil Factor: 15.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	15.000	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

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	733182	0.00595	45			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1781798	0.76049	5700	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1081724	0.26064	2000	0.00- 20.00	60.71	BA
4.812	4.812	0.000	655779	0.32303	2400	0.00- 20.00	36.80	BA
4.892	4.879	0.013	1713357	0.34012	2600	0.00- 20.00	96.16	BA
5.036	5.038	-0.002	501747	0.13982	1000	0.00- 20.00	28.16	BA
Average of Peak Concentrations =					2700			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1238368	0.23654	1800	0.00- 20.00	100.00(M)	CO
5.405	5.408	-0.003	743229	0.17280	1300	0.00- 20.00	60.02	CO
5.508	5.510	-0.002	1352874	0.17420	1300	0.00- 20.00	109.25	CO
6.025	6.027	-0.002	628105	0.12898	970	0.00- 20.00	50.72	CO
6.300	6.299	0.001	1789776	0.27505	2100	0.00- 20.00	144.53	CO
Average of Peak Concentrations =					1500			
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	529566	0.05288	400	0.00- 20.00	27.30	CO
7.250	7.251	-0.001	270969	0.05669	430	0.00- 20.00	13.97	CO
7.442	7.443	-0.001	269631	0.09249	700	0.00- 20.00	13.90	CO
7.899	7.901	-0.002	196979	0.07465	560	0.00- 20.00	10.15	CO
Average of Peak Concentrations =					520			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	824321	0.00752	57			

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\041318.b\041318023.D

Date : 13-APR-2018 19:34

Client ID: ND5-170615-01-LMB-0

Instrument: 40GCSJ.i

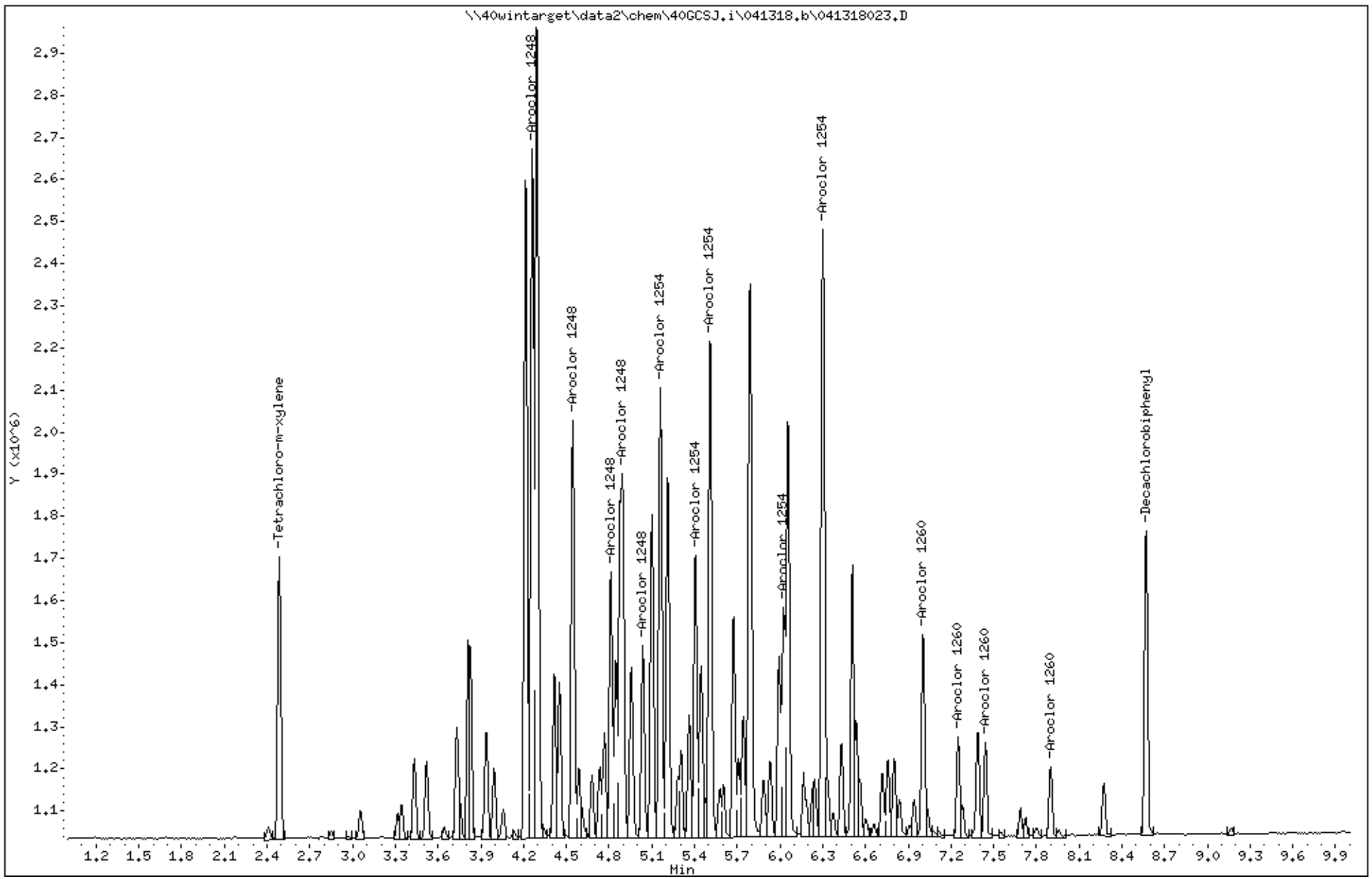
Sample Info: 40157698010 x15,

Volume Injected (uL): 1.0

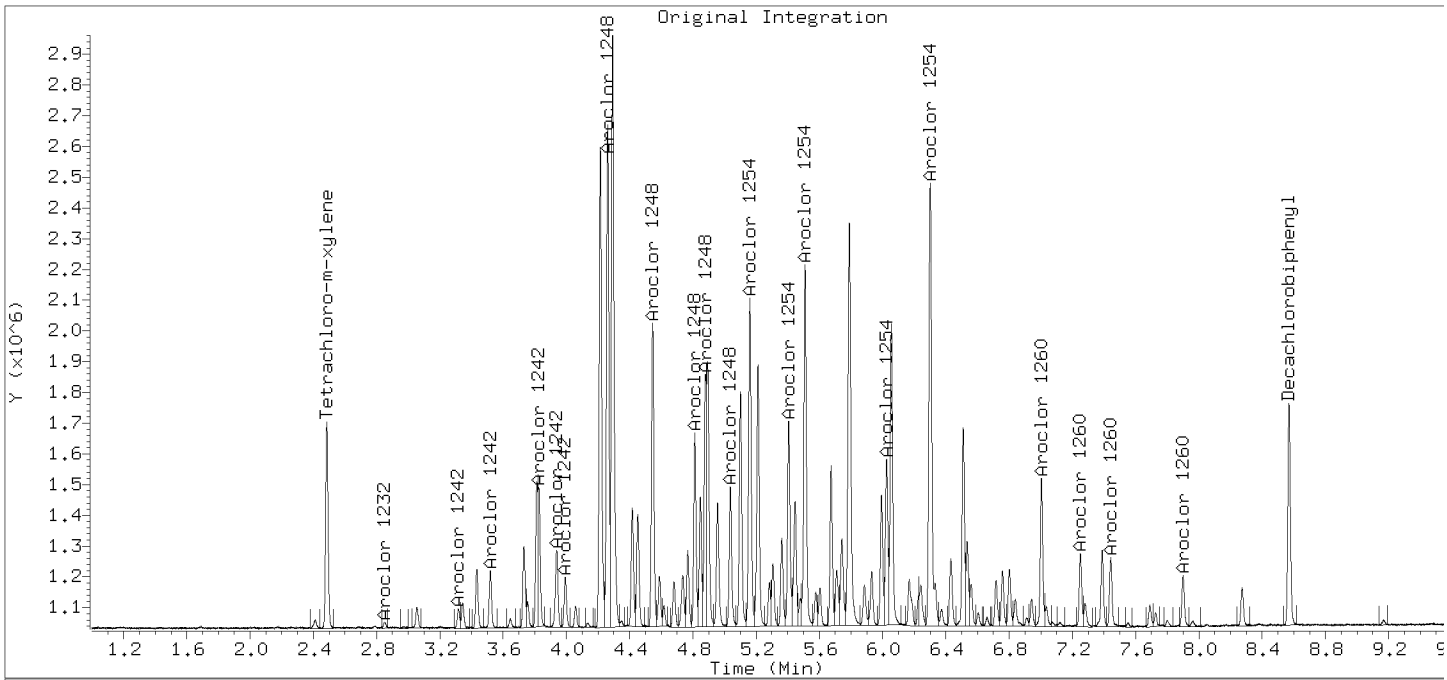
Operator: BLM

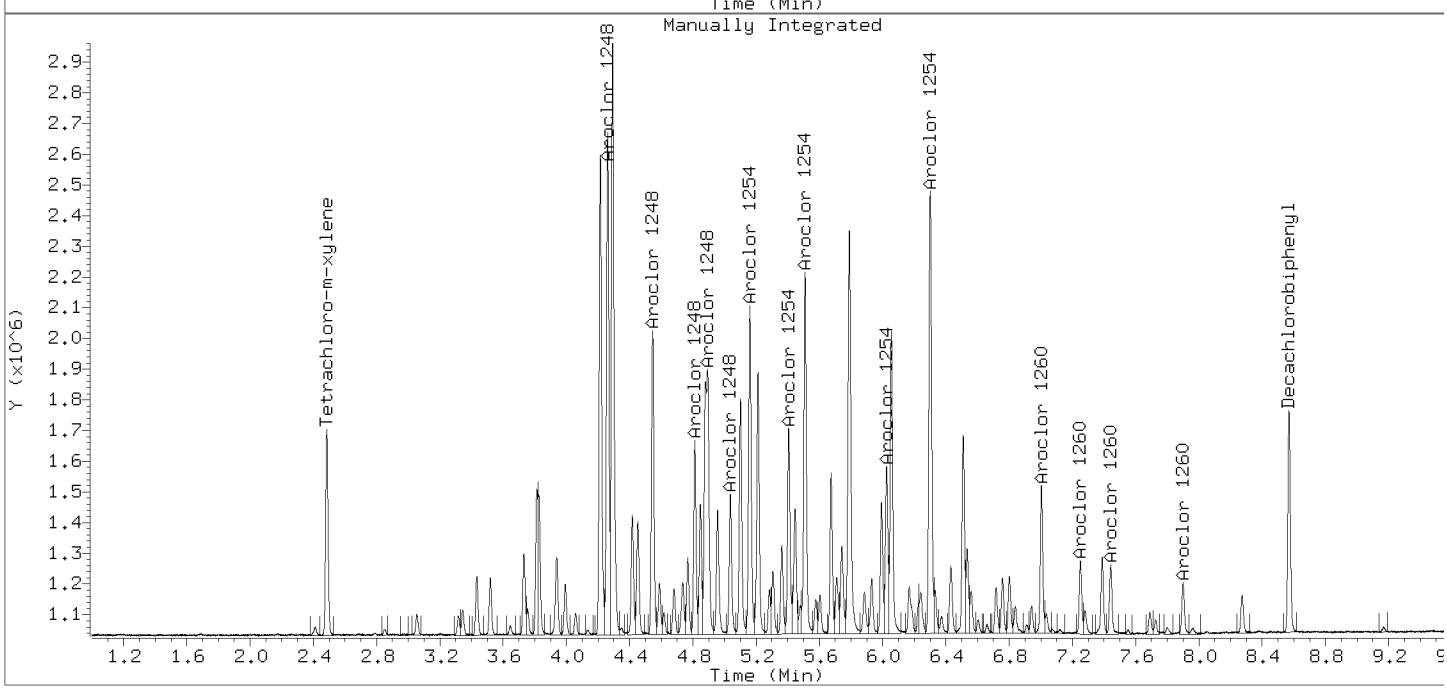
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-APR-2018 19:34 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	67764	0	
Aroclor 1016	67764	0	
Aroclor 1016	67764	0	
Aroclor 1016	67764	0	
Aroclor 1016	67764	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	23042	0	
Aroclor 1232	23042	0	
Aroclor 1232	23042	0	
Aroclor 1232	23042	0	

Aroclor 1232	23042	0	
Aroclor 1242	67764	0	
Aroclor 1242	67764	0	
Aroclor 1242	67764	0	
Aroclor 1242	67764	0	
Aroclor 1242	67764	0	
Aroclor 1248	1774624	1781798	BA
Aroclor 1248	1774624	1781798	BA
Aroclor 1248	1774624	1781798	BA
Aroclor 1248	1774624	1781798	BA
Aroclor 1248	1774624	1781798	BA
Aroclor 1254	1230804	1238368	CO
Aroclor 1254	1230804	1238368	CO
Aroclor 1254	1230804	1238368	CO
Aroclor 1254	1230804	1238368	CO
Aroclor 1254	1230804	1238368	CO
Aroclor 1260	1931645	0	CO
Aroclor 1260	1931645	0	CO
Aroclor 1260	1931645	0	CO
Aroclor 1260	1931645	0	CO
Aroclor 1260	1931645	0	CO
Tetrachloro-m-xylene	733182	733182	
Decachlorobiphenyl	824321	824321	

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SAMPLE NO.

ND5-170615-01-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/12/2018 07:14
Lab Sample ID: 40157698011
Date Analyzed: 04/13/2018 19:50
Lab File ID: 041318.B\041318024.D
Initial wt/vol: 10.0296 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)	33.3	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)	179	
11097-69-1	PCB-1254 (Aroclor 1254)	107	
11096-82-5	PCB-1260 (Aroclor 1260)	50.4	
1336-36-3	PCB, Total	370	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318024.D
Lab Smp Id: 40157698011 Client Smp ID: ND5-170615-01-LMB-0
Inj Date : 13-APR-2018 19:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698011,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
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	10.030	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	14451	11738	0.812	0.02		
1.426	16934	9632	0.569	0.02		
1.804	15208	10767	0.708	0.02	1 Aroclor 1221	BA
2.199	31231	21440	0.687	0.05		
2.411	135859	104773	0.771	0.22	1 Aroclor 1221	BA
2.485	10220757	9590461	0.938	17.23	$ 2 Tetrachloro-m-xylene	BA
2.686	19531	12969	0.664	0.03	1 Aroclor 1221	BA
2.791	39857	29341	0.736	0.06	1 Aroclor 1221	BA
2.851	70412	49207	0.699	0.11	1 Aroclor 1221	BA
2.972	22609	12939	0.572	0.03		
3.054	132390	118498	0.895	0.22		
3.108	13240	7327	0.553	0.02		
3.317	104160	100237	0.962	0.17		
3.344	134262	116896	0.871	0.22		
3.402	14904	15317	1.028	0.02		
3.434	253502	233383	0.921	0.42		
3.519	260677	240013	0.921	0.43		
3.644	47940	38998	0.813	0.08		
3.697	10296	11410	1.108	0.01		
3.730	308270	290593	0.943	0.51		
3.755	88949	90867	1.022	0.14		
3.813	921949	564276	0.612	1.55		
3.938	246617	197263	0.800	0.41		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.993	217013	197137	0.908	0.36	
4.058	105873	88748	0.838	0.17	
4.136	24039	20577	0.856	0.04	
4.214	1657827	1482678	0.894	2.79	
4.260	1650597	1531997	0.928	2.78	6 Aroclor 1248
4.292	1890206	1561867	0.826	3.18	
4.345	31489	21806	0.692	0.05	
4.417	373030	335014	0.898	0.62	
4.452	408248	361011	0.884	0.68	
4.545	1228202	1116096	0.909	2.07	6 Aroclor 1248
4.588	210633	192072	0.912	0.35	
4.617	117729	96888	0.823	0.19	
4.681	171530	150357	0.877	0.28	
4.736	223728	180343	0.806	0.37	
4.767	310647	291046	0.937	0.52	
4.812	661112	624716	0.945	1.11	6 Aroclor 1248
4.847	497068	470329	0.946	0.83	
4.893	1694842	922783	0.544	2.85	6 Aroclor 1248
4.956	631796	551645	0.873	1.06	
5.036	460175	401073	0.872	0.77	6 Aroclor 1248
5.100	1016140	877965	0.864	1.71	
5.160	1340443	1114509	0.831	2.26	7 Aroclor 1254
5.211	1016078	884624	0.871	1.71	
5.284	155024	145960	0.942	0.26	
5.306	257934	207996	0.806	0.43	
5.362	357783	311773	0.871	0.60	
5.405	766047	691397	0.903	1.29	7 Aroclor 1254
5.448	599572	491534	0.820	1.01	
5.477	131972	120158	0.910	0.22	
5.509	1503069	1288556	0.857	2.53	7 Aroclor 1254
5.577	173729	157319	0.906	0.29	
5.604	167745	140216	0.836	0.28	
5.675	609968	559696	0.918	1.02	
5.709	275311	222909	0.810	0.46	
5.742	452223	369163	0.816	0.76	
5.789	2015466	1476913	0.733	3.39	
5.884	222206	167293	0.753	0.37	
5.931	270236	215171	0.796	0.45	
5.992	564164	504994	0.895	0.95	
6.025	660032	564303	0.855	1.11	7 Aroclor 1254
6.055	1261770	1068703	0.847	2.12	
6.167	291374	168993	0.580	0.49	
6.242	312971	158552	0.507	0.52	
6.301	2048514	1636951	0.799	3.45	7 Aroclor 1254
6.333	170784	154534	0.905	0.28	
6.372	89285	68016	0.762	0.15	
6.431	332697	278447	0.837	0.56	
6.509	1084585	969124	0.894	1.82	
6.534	311030	299606	0.963	0.52	
6.559	190786	165800	0.869	0.32	
6.606	60325	48622	0.806	0.10	
6.657	49219	35923	0.730	0.08	
6.717	207021	176946	0.855	0.34	
6.758	276304	232731	0.842	0.46	
6.801	260591	223588	0.858	0.43	
6.839	168208	128110	0.762	0.28	
6.911	52973	48391	0.914	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.942	152054	135670	0.892	0.25	
7.003	678363	618100	0.911	1.14	8 Aroclor 1260
7.034	90368	84881	0.939	0.15	
7.073	19363	14445	0.746	0.03	
7.122	36388	24068	0.661	0.06	
7.250	316866	277338	0.875	0.53	8 Aroclor 1260
7.281	131309	103866	0.791	0.22	
7.340	12613	9916	0.786	0.02	
7.388	463096	412602	0.891	0.78	
7.441	431446	367561	0.852	0.72	8 Aroclor 1260
7.549	17665	15605	0.883	0.02	
7.689	120507	113004	0.938	0.20	
7.726	128340	108765	0.847	0.21	
7.799	80411	58978	0.733	0.13	
7.898	323647	284194	0.878	0.54	8 Aroclor 1260
7.958	45981	27874	0.606	0.07	
8.048	26720	21687	0.812	0.04	
8.273	380093	329294	0.866	0.64	
8.380	20166	14566	0.722	0.03	
8.569	10361041	9065057	0.875	17.97	$ 12 Decachlorobiphenyl
9.167	57024	46463	0.815	0.09	
	59306830	50985948		100.000	

Total unknown % area = 41

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318024.D
Lab Smp Id: 40157698011 Client Smp ID: ND5-170615-01-LMB-0
Inj Date : 13-APR-2018 19:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698011,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
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	10.030	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			
1.803	1.804	-0.001	15207	0.01460	7.3	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	135859	0.24799	120	0.00- 20.00	893.40	BA
2.686	2.688	-0.002	19530	0.01412	7.0	0.00- 20.00	128.43	BA
2.790	2.789	0.001	39856	0.03604	18	0.00- 20.00	262.09	BA
2.850	2.851	-0.001	70412	0.02163	11	0.00- 20.00	463.02	BA
Average of Peak Concentrations =					33			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10220757	0.08290	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	1650597	0.70449	350	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1228201	0.29593	150	0.00- 20.00	74.41	BA
4.811	4.812	-0.001	661111	0.32566	160	0.00- 20.00	40.05	BA
4.892	4.879	0.013	1694842	0.33645	170	0.00- 20.00	102.68	BA
5.036	5.038	-0.002	460175	0.12823	64	0.00- 20.00	27.88	BA
Average of Peak Concentrations =					180			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1340442	0.25604	130	0.00- 20.00	100.00(M)	CO
5.405	5.408	-0.003	766047	0.17811	89	0.00- 20.00	57.15	CO
5.508	5.510	-0.002	1503069	0.19354	96	0.00- 20.00	112.13	CO
6.025	6.027	-0.002	660031	0.13554	68	0.00- 20.00	49.24	CO
6.300	6.299	0.001	2048514	0.31481	160	0.00- 20.00	152.82	CO
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)	BA
7.003	7.006	-0.003	678362	0.06774	34	0.00- 20.00	30.60	BA
7.250	7.251	-0.001	316865	0.06629	33	0.00- 20.00	14.29	BA
7.440	7.443	-0.003	431446	0.14800	74	0.00- 20.00	19.46	BA
7.898	7.901	-0.003	323646	0.12265	61	0.00- 20.00	14.60	BA
Average of Peak Concentrations =					50			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	10361040	0.09457	47			

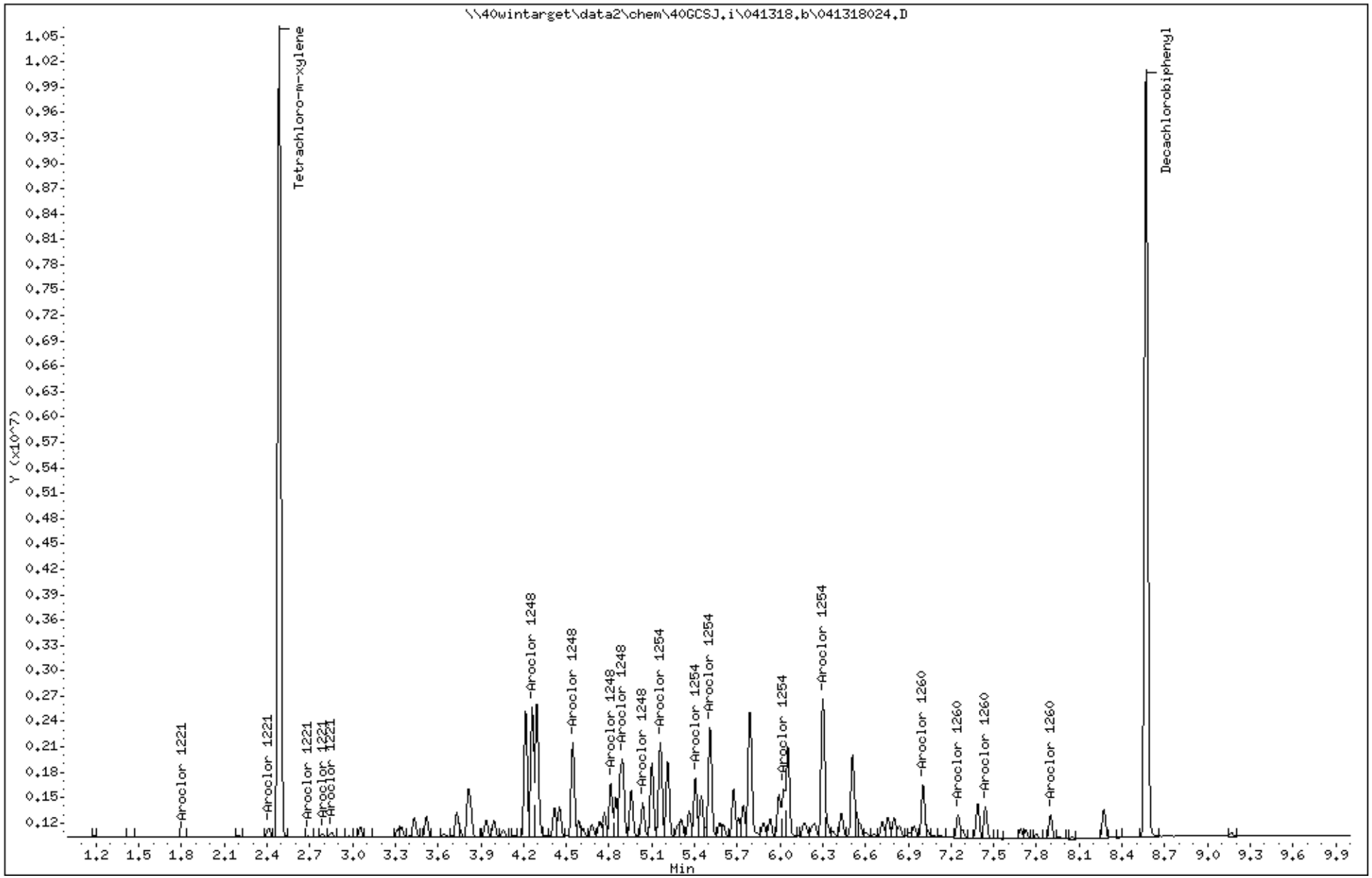
QC Flag Legend

M - Compound response manually integrated.

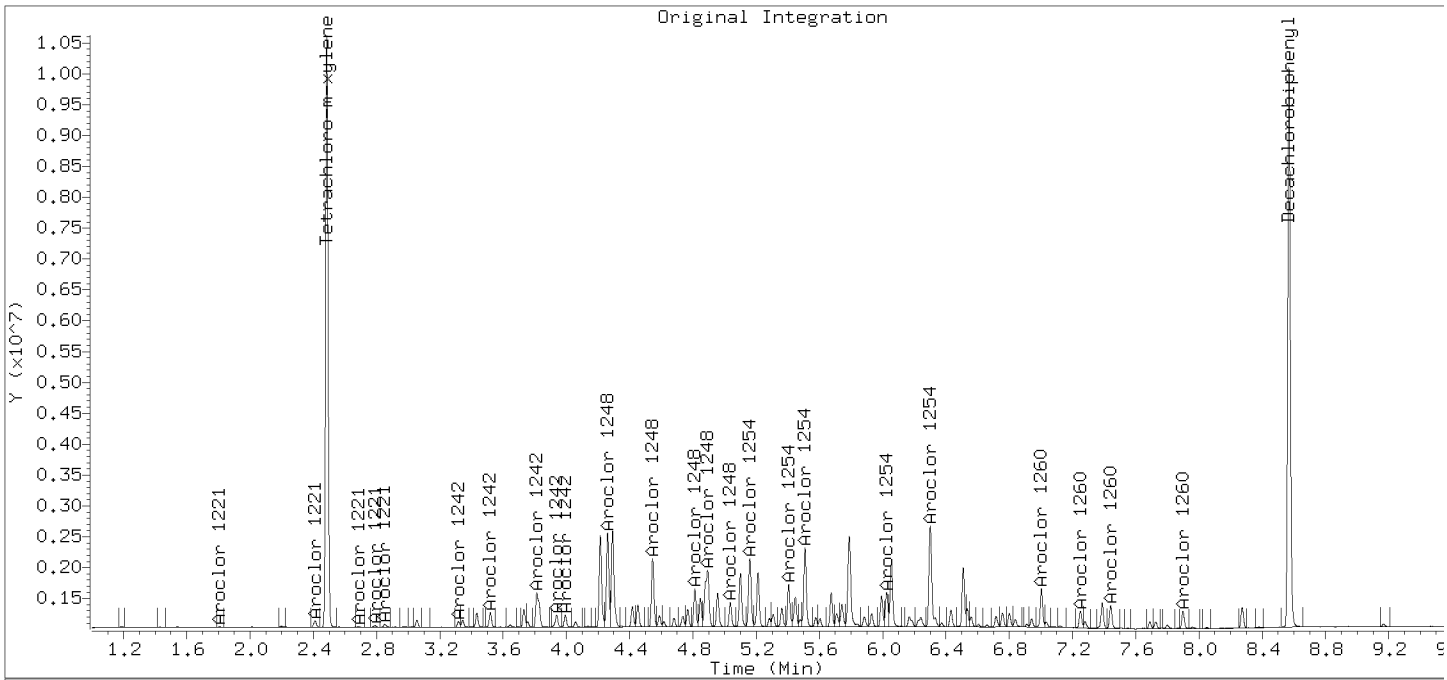
Review Codes Legend

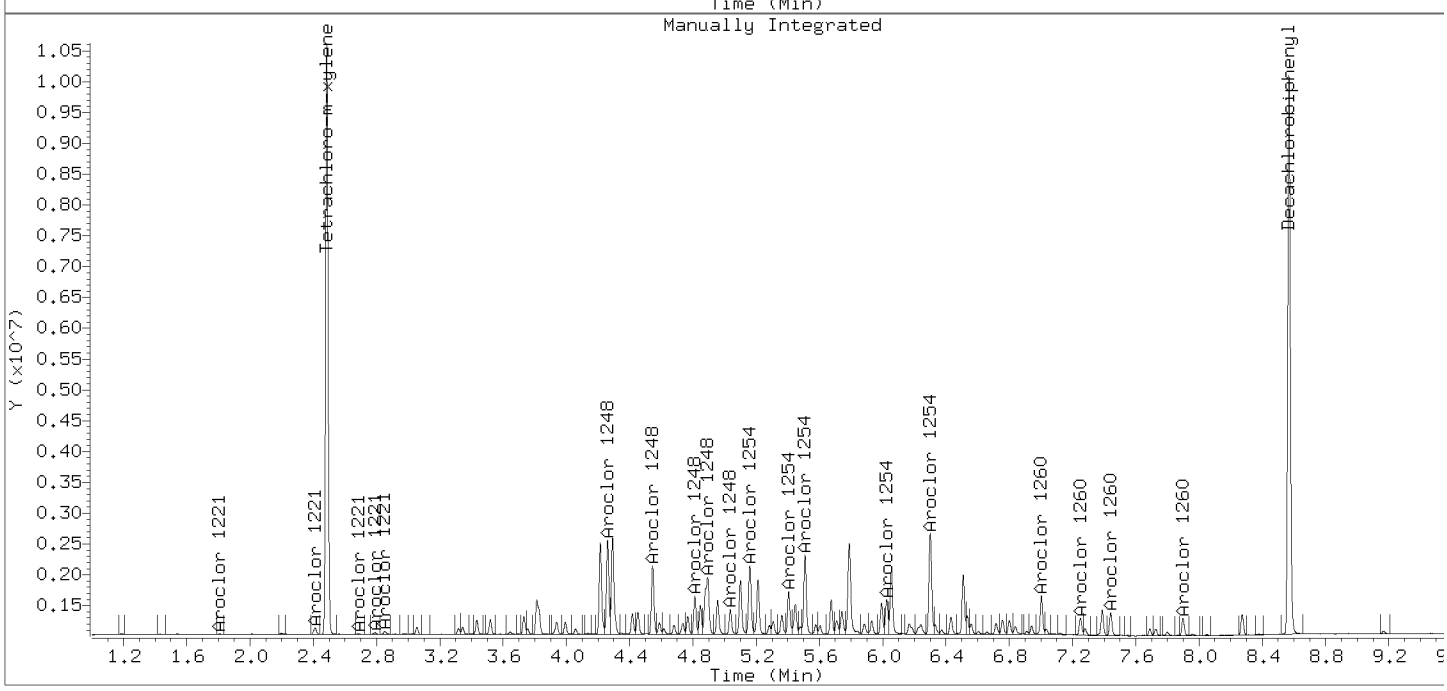
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318024.D
Date : 13-APR-2018 19:50
Client ID: ND5-170615-01-LMB-0
Instrument: 40GCSJ.i
Sample Info: 40157698011,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-APR-2018 19:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	99898	0	
Aroclor 1016	99898	0	
Aroclor 1016	99898	0	
Aroclor 1016	99898	0	
Aroclor 1016	99898	0	
Aroclor 1221	14123	15207	BA
Aroclor 1221	14123	15207	BA
Aroclor 1221	14123	15207	BA
Aroclor 1221	14123	15207	BA
Aroclor 1221	14123	15207	BA
Aroclor 1232	61147	0	
Aroclor 1232	61147	0	
Aroclor 1232	61147	0	
Aroclor 1232	61147	0	

Aroclor 1232	61147	0	
Aroclor 1242	99898	0	
Aroclor 1242	99898	0	
Aroclor 1242	99898	0	
Aroclor 1242	99898	0	
Aroclor 1242	99898	0	
Aroclor 1248	1637942	1650597	BA
Aroclor 1248	1637942	1650597	BA
Aroclor 1248	1637942	1650597	BA
Aroclor 1248	1637942	1650597	BA
Aroclor 1248	1637942	1650597	BA
Aroclor 1254	1315129	1340442	CO
Aroclor 1254	1315129	1340442	CO
Aroclor 1254	1315129	1340442	CO
Aroclor 1254	1315129	1340442	CO
Aroclor 1254	1315129	1340442	CO
Aroclor 1260	2175931	0	BA
Aroclor 1260	2175931	0	BA
Aroclor 1260	2175931	0	BA
Aroclor 1260	2175931	0	BA
Aroclor 1260	2175931	0	BA
Tetrachloro-m-xylene	10195461	10220757	BA
Decachlorobiphenyl	10361040	10361040	

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SAMPLE NO.

ND3-170615-01-SMB-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/10/2018 07:13
Lab Sample ID: 40157698012
Date Analyzed: 04/11/2018 17:26
Lab File ID: 041118.B\041118015.D
Initial wt/vol: 9.9744 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)	251	
11097-69-1	PCB-1254 (Aroclor 1254)	196	
11096-82-5	PCB-1260 (Aroclor 1260)	76.5	
1336-36-3	PCB, Total	524	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118015.D
Lab Smp Id: 40157698012 Client Smp ID: ND3-170615-01-SMB-0
Inj Date : 11-APR-2018 17:26
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698012,
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: 15
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	9.974	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.027	10818	8556	0.791	0.01		
1.351	10349	6724	0.650	0.01		
1.541	11519	9916	0.861	0.01		
2.195	14464	13191	0.912	0.01		
2.412	71306	55670	0.781	0.09		
2.485	10033637	9122145	0.909	13.35	$ 2 Tetrachloro-m-xylene	
2.790	21429	18598	0.868	0.02		
2.850	34653	22765	0.657	0.04		
2.975	33404	21768	0.652	0.04		
3.018	20916	17625	0.843	0.02		
3.056	119070	107624	0.904	0.15		
3.318	60768	56467	0.929	0.07		
3.344	89655	80799	0.901	0.11		
3.403	11937	11108	0.931	0.01		
3.434	157639	148377	0.941	0.20		
3.520	188405	170032	0.902	0.24		
3.647	38379	27506	0.717	0.04		
3.732	180614	174965	0.969	0.23		
3.757	73292	69172	0.944	0.09		
3.827	875237	525071	0.600	1.11		
3.938	256620	205427	0.801	0.32		
3.994	246328	230469	0.936	0.31		
4.058	125945	105540	0.838	0.16		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.136	30809	26242	0.852	0.03	
4.214	1788066	1540694	0.862	2.28	
4.261	1814307	1656349	0.913	2.31	6 Aroclor 1248
4.292	2404658	1940557	0.807	3.07	
4.417	615796	583751	0.948	0.78	
4.453	637338	569418	0.893	0.81	
4.546	1491586	1343541	0.901	1.90	6 Aroclor 1248
4.589	252722	227270	0.899	0.32	
4.616	171768	137600	0.801	0.21	
4.679	206328	179451	0.870	0.26	
4.737	271607	207588	0.764	0.34	
4.768	498809	463987	0.930	0.63	
4.813	1163338	1091551	0.938	1.48	6 Aroclor 1248
4.848	774382	735363	0.950	0.98	
4.880	2634771	1430865	0.543	3.36	6 Aroclor 1248
4.957	705611	628327	0.890	0.90	
5.038	986234	877589	0.890	1.25	6 Aroclor 1248
5.101	1363935	1153905	0.846	1.74	
5.161	2202576	1860884	0.845	2.81	7 Aroclor 1254
5.211	1767903	1496176	0.846	2.25	
5.283	227524	219189	0.963	0.29	
5.308	444964	368979	0.829	0.56	
5.363	717654	591398	0.824	0.91	
5.406	1485794	1329492	0.895	1.89	7 Aroclor 1254
5.447	1070766	902859	0.843	1.36	
5.478	237286	214136	0.902	0.30	
5.510	2488332	2146214	0.863	3.17	7 Aroclor 1254
5.578	179908	163667	0.910	0.22	
5.604	347445	292241	0.841	0.44	
5.675	844174	801751	0.950	1.07	
5.710	517711	411419	0.795	0.66	
5.742	652384	510568	0.783	0.83	
5.790	3396810	2577706	0.759	4.33	
5.885	369148	274164	0.743	0.47	
5.931	435320	341500	0.784	0.55	
5.993	942075	858266	0.911	1.20	
6.025	1543308	1333544	0.864	1.97	7 Aroclor 1254
6.055	2492232	2149112	0.862	3.18	
6.119	36585	23026	0.629	0.04	
6.168	614377	396945	0.646	0.78	
6.228	194961	247413	1.269	0.24	
6.242	411379	307312	0.747	0.52	
6.300	3617840	2885465	0.798	4.62	7 Aroclor 1254
6.333	347115	322371	0.929	0.44	
6.374	176024	142745	0.811	0.22	
6.432	550290	472130	0.858	0.70	
6.509	1353218	1185336	0.876	1.72	
6.536	601160	551316	0.917	0.76	
6.559	330325	303255	0.918	0.42	
6.605	129115	112287	0.870	0.16	
6.661	71616	65740	0.918	0.09	
6.718	412133	362329	0.879	0.52	
6.758	479863	432625	0.902	0.61	
6.801	519757	459361	0.884	0.66	
6.839	267025	198652	0.744	0.34	
6.913	57157	57149	1.000	0.07	
6.943	335046	307854	0.919	0.42	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.005	1334132	1193454	0.895	1.70	8 Aroclor 1260
7.035	130360	126719	0.972	0.16	
7.076	21467	22228	1.035	0.02	
7.121	50571	40995	0.811	0.06	
7.250	621289	558220	0.898	0.79	8 Aroclor 1260
7.281	219376	184234	0.840	0.28	
7.333	10846	10285	0.948	0.01	
7.388	528123	458353	0.868	0.67	
7.443	537934	481224	0.895	0.68	8 Aroclor 1260
7.552	34189	33671	0.985	0.04	
7.613	10502	8517	0.811	0.01	
7.690	149746	136933	0.914	0.19	
7.727	146094	114675	0.785	0.18	
7.802	99299	59964	0.604	0.12	
7.865	10852	10196	0.940	0.01	
7.900	430053	374240	0.870	0.54	8 Aroclor 1260
7.961	53802	34893	0.649	0.06	
8.048	128516	103882	0.808	0.16	
8.166	11291	7082	0.627	0.01	
8.274	319555	294901	0.923	0.40	
8.374	13408	12354	0.921	0.01	
8.451	13691	12194	0.891	0.01	
8.571	9907544	8601034	0.868	12.65	$ 12 Decachlorobiphenyl
8.726	15562	13919	0.894	0.01	
8.940	20374	13139	0.645	0.02	
9.054	20716	13372	0.645	0.02	
9.169	42367	35174	0.830	0.05	
9.464	28494	18048	0.633	0.03	
9.961	26991	18539	0.687	0.03	
	78303896	66672578		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118015.D
Lab Smp Id: 40157698012 Client Smp ID: ND3-170615-01-SMB-0
Inj Date : 11-APR-2018 17:26
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698012,
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: 15
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	9.974	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	10033637	0.08138	41			
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)	CONCENTRATIONS 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	1814306	0.77436	390	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	1491586	0.35939	180	0.00- 20.00	82.21	BA
4.812	4.812	0.000	1163337	0.57305	290	0.00- 20.00	64.12	BA
4.879	4.879	0.000	2634770	0.52304	260	0.00- 20.00	145.22	BA
5.037	5.038	-0.001	986234	0.27483	140	0.00- 20.00	54.36	BA
Average of Peak Concentrations =					250			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2202575	0.42072	210	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1485793	0.34545	170	0.00- 20.00	67.46	BA
5.509	5.510	-0.001	2488331	0.32041	160	0.00- 20.00	112.97	BA
6.024	6.027	-0.003	1543307	0.31692	160	0.00- 20.00	70.07	BA
6.300	6.299	0.001	3617840	0.55598	280	0.00- 20.00	164.26	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
7.004	7.006	-0.002	1334131	0.13322	67	0.00- 20.00	36.88	BA
7.250	7.251	-0.001	621288	0.12998	65	0.00- 20.00	17.17	BA
7.442	7.443	-0.001	537933	0.18453	92	0.00- 20.00	14.87	BA
7.900	7.901	-0.001	430052	0.16298	82	0.00- 20.00	11.89	BA
Average of Peak Concentrations =					76			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9907543	0.09043	45			

QC Flag Legend

M - Compound 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\041118015.D

Date : 11-APR-2018 17:26

Client ID: ND3-170615-01-SMB-0

Instrument: 40GCSJ.i

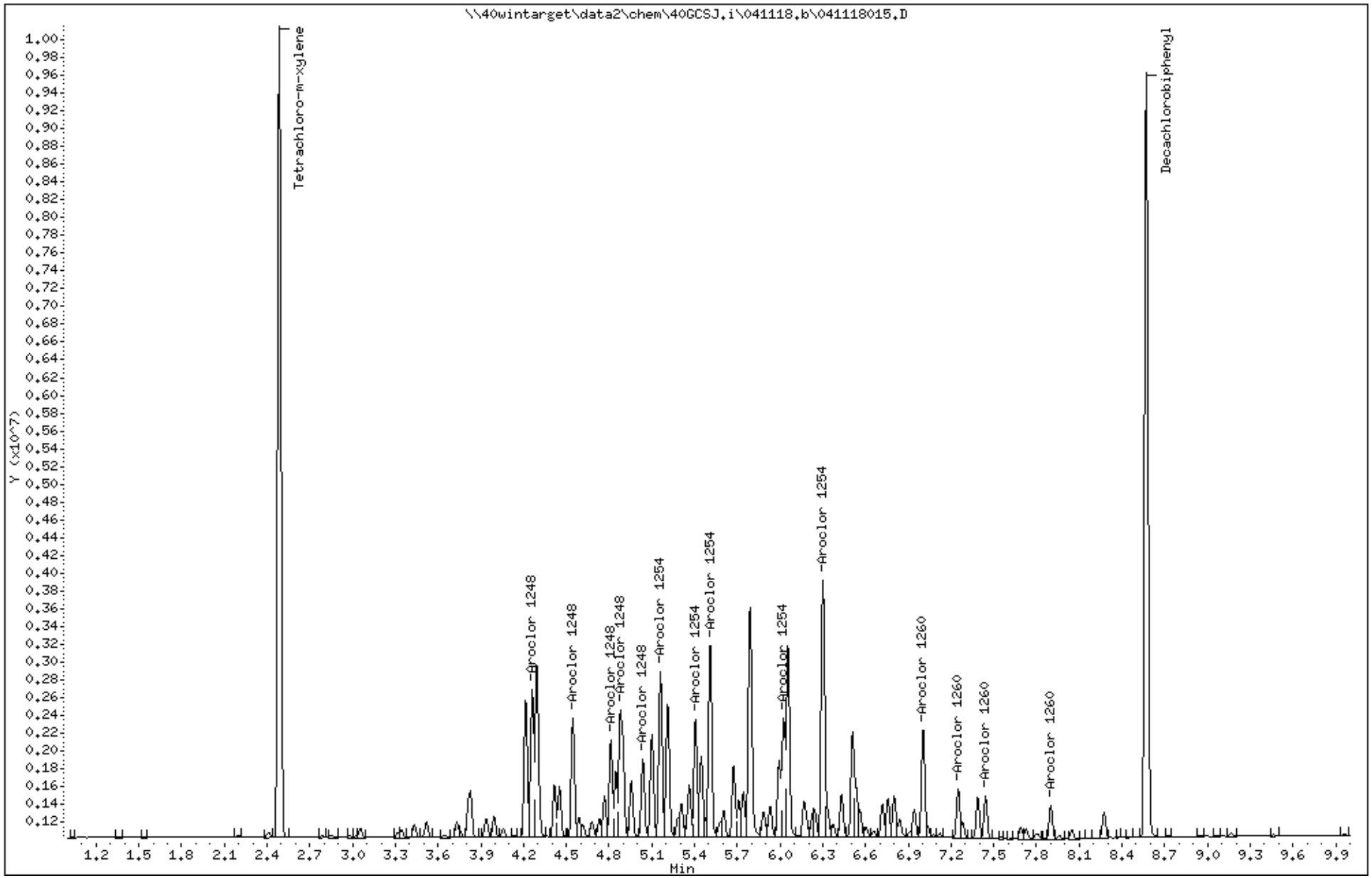
Sample Info: 40157698012,

Volume Injected (uL): 1.0

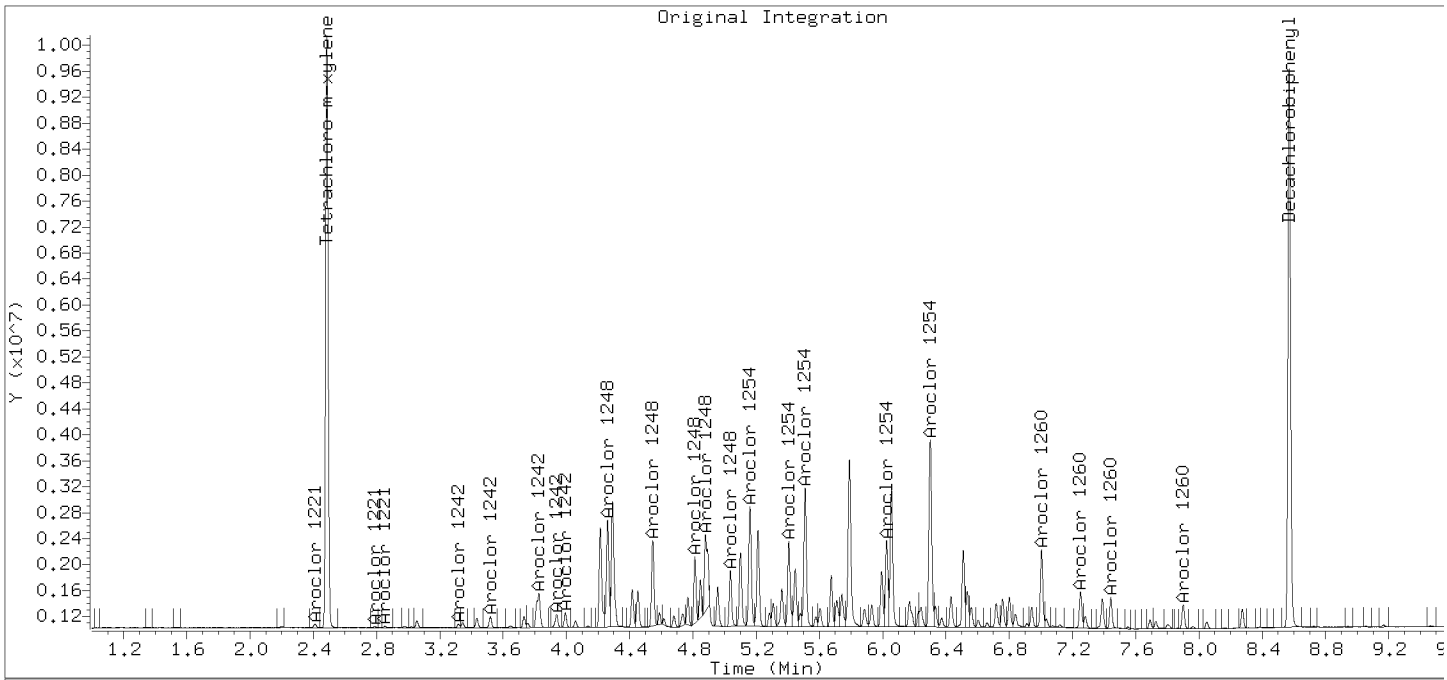
Operator: BLM

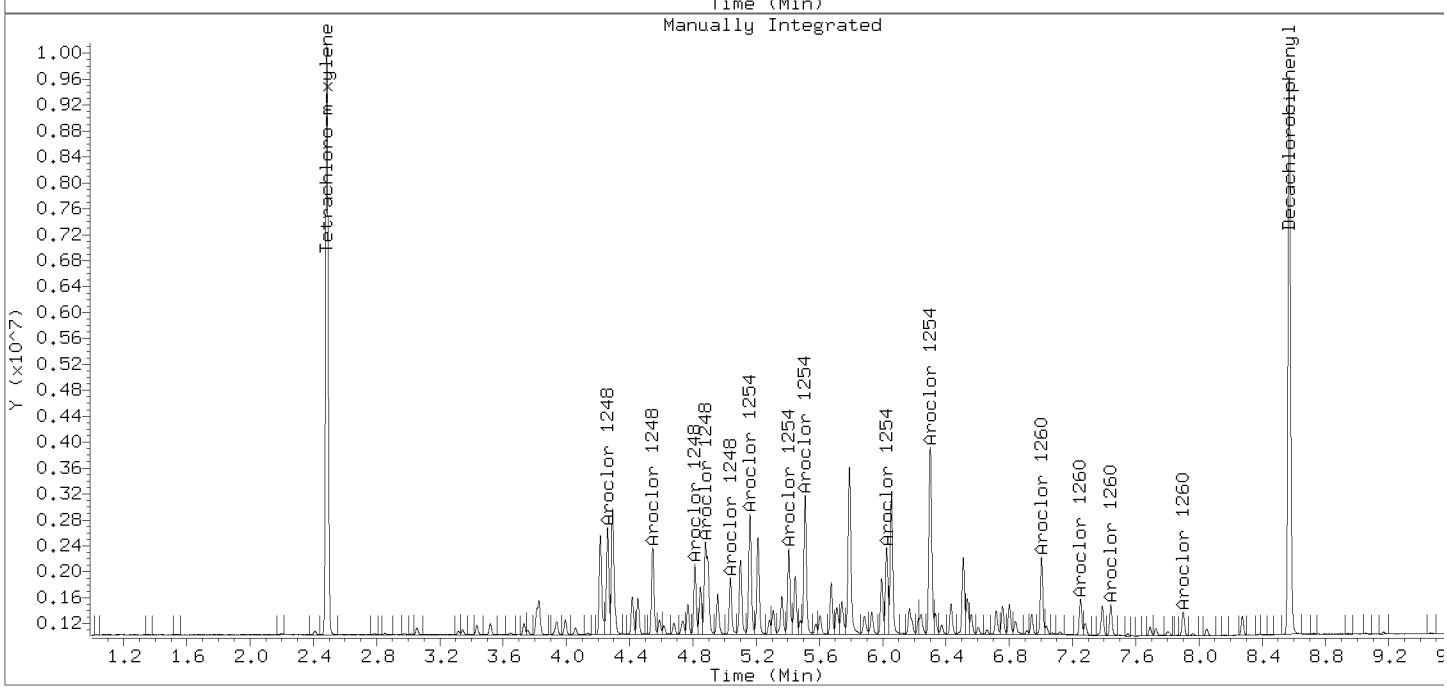
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 17:26 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698012





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	60768	0	
Aroclor 1016	60768	0	
Aroclor 1016	60768	0	
Aroclor 1016	60768	0	
Aroclor 1016	60768	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	34653	0	
Aroclor 1232	34653	0	
Aroclor 1232	34653	0	
Aroclor 1232	34653	0	

Aroclor 1232	34653	0	
Aroclor 1242	60768	0	
Aroclor 1242	60768	0	
Aroclor 1242	60768	0	
Aroclor 1242	60768	0	
Aroclor 1242	60768	0	
Aroclor 1248	1791847	1814306	BA
Aroclor 1248	1791847	1814306	BA
Aroclor 1248	1791847	1814306	BA
Aroclor 1248	1791847	1814306	BA
Aroclor 1248	1791847	1814306	BA
Aroclor 1254	2146870	2202575	BA
Aroclor 1254	2146870	2202575	BA
Aroclor 1254	2146870	2202575	BA
Aroclor 1254	2146870	2202575	BA
Aroclor 1254	2146870	2202575	BA
Aroclor 1260	3601471	0	BA
Aroclor 1260	3601471	0	BA
Aroclor 1260	3601471	0	BA
Aroclor 1260	3601471	0	BA
Aroclor 1260	3601471	0	BA
Tetrachloro-m-xylene	10033637	10033637	
Decachlorobiphenyl	9907543	9907543	

==========

SAMPLE NO.

ND3-170615-01-SMB-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/10/2018 07:13
Lab Sample ID: 40157698013
Date Analyzed: 04/11/2018 18:14
Lab File ID: 041118.B\041118018.D
Initial wt/vol: 10.0395 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)	302	
11097-69-1	PCB-1254 (Aroclor 1254)	267	
11096-82-5	PCB-1260 (Aroclor 1260)	138	
1336-36-3	PCB, Total	707	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118018.D
Lab Smp Id: 40157698013 Client Smp ID: ND3-170615-01-SMB-0
Inj Date : 11-APR-2018 18:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698013 x2,
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: 18
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	10.040	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.413	48622	35496	0.730	0.09		
2.485	5217721	4824785	0.925	10.23	$ 2 Tetrachloro-m-xylene	
2.791	16094	12496	0.776	0.03		
2.846	25073	15454	0.616	0.04		
2.973	10439	10322	0.989	0.02		
3.020	10706	10163	0.949	0.02		
3.054	68424	66285	0.969	0.13		
3.316	35932	36454	1.015	0.07		
3.344	53426	47272	0.885	0.10		
3.434	95459	81456	0.853	0.18		
3.519	103795	94648	0.912	0.20		
3.648	18766	15412	0.821	0.03		
3.732	108880	104741	0.962	0.21		
3.756	46455	43246	0.931	0.09		
3.827	520760	303663	0.583	1.02		
3.938	160832	127697	0.794	0.31		
3.993	148066	133908	0.904	0.29		
4.058	69923	59233	0.847	0.13		
4.137	19246	15854	0.824	0.03		
4.215	1017845	904700	0.889	1.99		
4.260	1048708	982389	0.937	2.05	6 Aroclor 1248	BA
4.292	1451682	1215725	0.837	2.84		
4.417	347840	322194	0.926	0.68		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	356394	318658	0.894	0.69	
4.546	870820	789517	0.907	1.70	6 Aroclor 1248
4.589	168040	153771	0.915	0.32	
4.617	99019	83210	0.840	0.19	
4.680	136313	119836	0.879	0.26	
4.735	179339	138399	0.772	0.35	
4.767	331694	304407	0.918	0.65	
4.812	735379	699855	0.952	1.44	6 Aroclor 1248
4.848	447997	428479	0.956	0.87	
4.879	1686300	910199	0.540	3.30	6 Aroclor 1248
4.955	447959	381962	0.853	0.87	
5.037	584394	527665	0.903	1.14	6 Aroclor 1248
5.102	909303	795454	0.875	1.78	
5.160	1510303	1277241	0.846	2.96	7 Aroclor 1254
5.211	1226658	1063621	0.867	2.40	
5.283	153907	149251	0.970	0.30	
5.307	307470	255948	0.832	0.60	
5.362	423045	365742	0.865	0.82	
5.406	982566	875530	0.891	1.92	7 Aroclor 1254
5.447	706734	575501	0.814	1.38	
5.479	137472	132485	0.964	0.26	
5.509	1611823	1377313	0.855	3.16	7 Aroclor 1254
5.577	128788	122215	0.949	0.25	
5.603	212149	178251	0.840	0.41	
5.674	626291	595563	0.951	1.22	
5.710	371251	300345	0.809	0.72	
5.742	461878	365359	0.791	0.90	
5.790	2384916	1767907	0.741	4.67	
5.885	273854	193674	0.707	0.53	
5.931	330445	282081	0.854	0.64	
5.993	740932	670518	0.905	1.45	
6.025	1000180	878477	0.878	1.96	7 Aroclor 1254
6.055	1925394	1608328	0.835	3.77	
6.168	442910	279175	0.630	0.86	
6.228	148680	184128	1.238	0.29	
6.241	294311	223042	0.758	0.57	
6.301	2657140	2126394	0.800	5.21	7 Aroclor 1254
6.332	240830	222516	0.924	0.47	
6.372	123462	95384	0.773	0.24	
6.432	463273	408144	0.881	0.90	
6.509	1149237	1031521	0.898	2.25	
6.535	395961	380102	0.960	0.77	
6.559	279802	238319	0.852	0.54	
6.604	100573	85737	0.852	0.19	
6.660	58408	51945	0.889	0.11	
6.717	312493	275144	0.880	0.61	
6.758	377244	331853	0.880	0.73	
6.802	388815	346281	0.891	0.76	
6.838	231985	176407	0.760	0.45	
6.913	58555	53932	0.921	0.11	
6.942	248886	226539	0.910	0.48	
7.004	1096927	987708	0.900	2.15	8 Aroclor 1260
7.034	121036	109752	0.907	0.23	
7.076	19390	20826	1.074	0.03	
7.122	35849	34382	0.959	0.07	
7.251	471917	430961	0.913	0.92	8 Aroclor 1260
7.280	177704	142834	0.804	0.34	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.388	518618	446591	0.861	1.01	
7.442	539283	455867	0.845	1.05	8 Aroclor 1260
7.549	31941	30815	0.965	0.06	
7.610	9655	8208	0.850	0.01	
7.639	12105	7747	0.640	0.02	
7.689	130470	118547	0.909	0.25	
7.726	129790	113688	0.876	0.25	
7.800	86952	54519	0.627	0.17	
7.899	426898	382193	0.895	0.83	8 Aroclor 1260
7.960	52571	34947	0.665	0.10	
8.049	96461	82216	0.852	0.18	
8.274	341118	291967	0.856	0.66	
8.380	18031	13315	0.738	0.03	
8.570	5468703	4755612	0.870	11.22	$ 12 Decachlorobiphenyl
8.723	21003	13398	0.638	0.04	
9.058	15716	11389	0.725	0.03	
9.168	43652	36673	0.840	0.08	
9.470	20095	13500	0.672	0.03	
9.960	24284	16761	0.690	0.04	
	50996436	43501334		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118018.D
Lab Smp Id: 40157698013 Client Smp ID: ND3-170615-01-SMB-0
Inj Date : 11-APR-2018 18:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698013 x2,
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: 18
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	10.040	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	5217721	0.04232	42			
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	1048707	0.44760	440	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	870820	0.20982	210	0.00- 20.00	83.04	BA
4.812	4.812	0.000	735378	0.36224	360	0.00- 20.00	70.12	BA
4.879	4.879	0.000	1686299	0.33475	330	0.00- 20.00	160.80	BA
5.036	5.038	-0.002	584394	0.16285	160	0.00- 20.00	55.73	BA
Average of Peak Concentrations =					300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1510303	0.28849	290	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	982566	0.22845	230	0.00- 20.00	65.06	BA
5.508	5.510	-0.002	1611823	0.20755	210	0.00- 20.00	106.72	BA
6.024	6.027	-0.003	1000180	0.20539	200	0.00- 20.00	66.22	BA
6.300	6.299	0.001	2657139	0.40834	410	0.00- 20.00	175.93	BA
Average of Peak Concentrations =					270			
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	1096927	0.10954	110	0.00- 20.00	41.28	BA
7.250	7.251	-0.001	471916	0.09873	98	0.00- 20.00	17.76	BA
7.441	7.443	-0.002	539283	0.18500	180	0.00- 20.00	20.30	BA
7.899	7.901	-0.002	426898	0.16178	160	0.00- 20.00	16.07	BA
Average of Peak Concentrations =					140			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5468702	0.04992	50			

QC Flag Legend

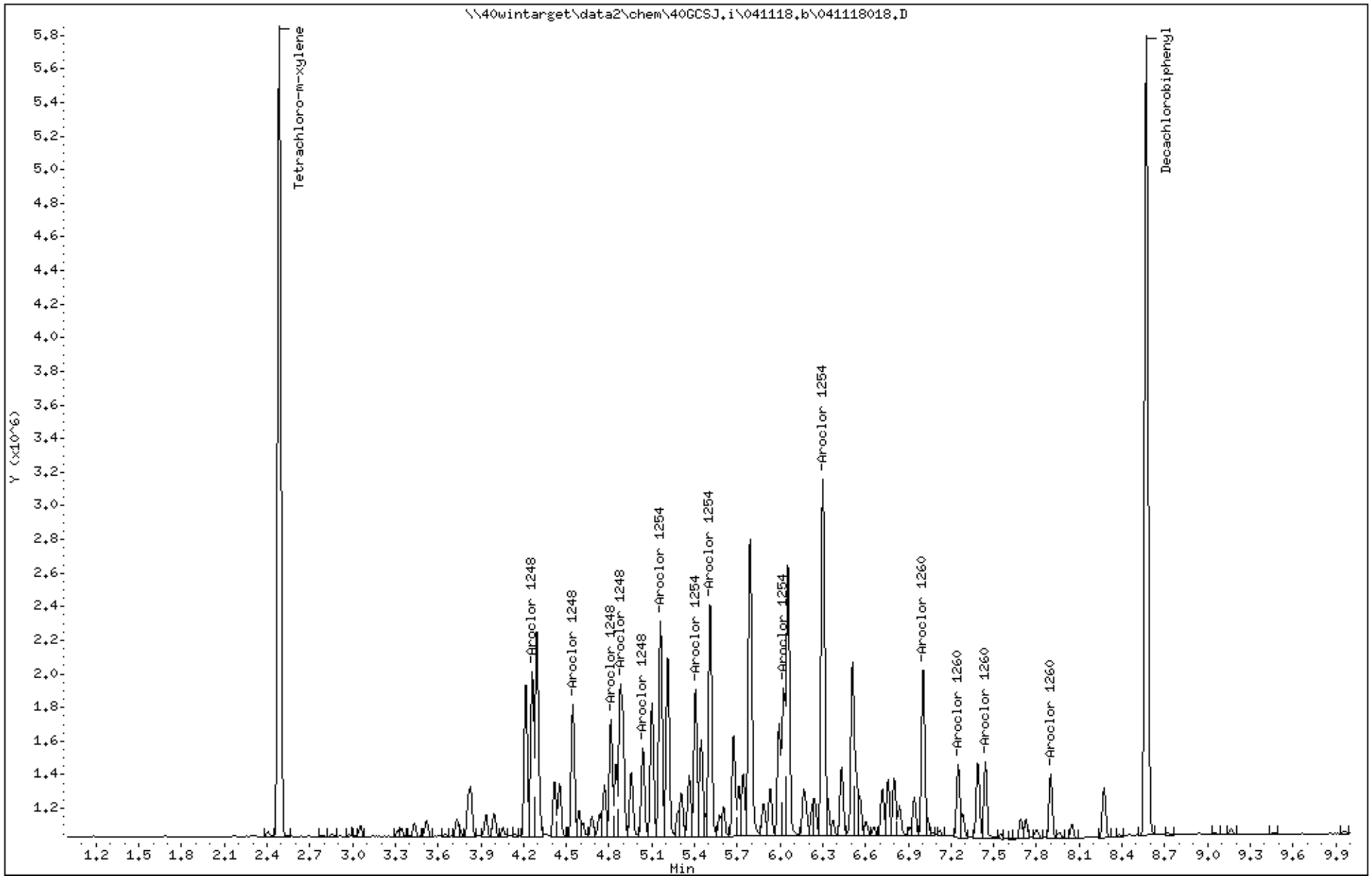
M - Compound response manually integrated.

Review Codes Legend

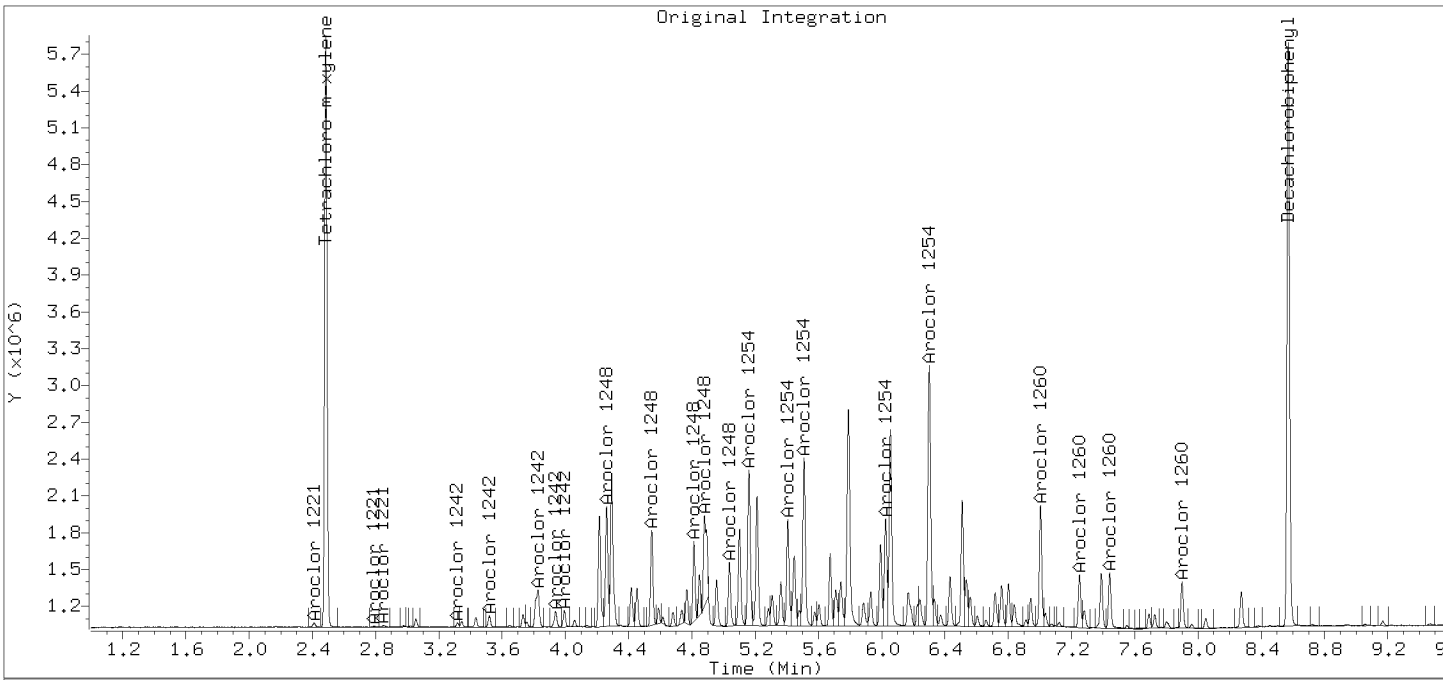
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

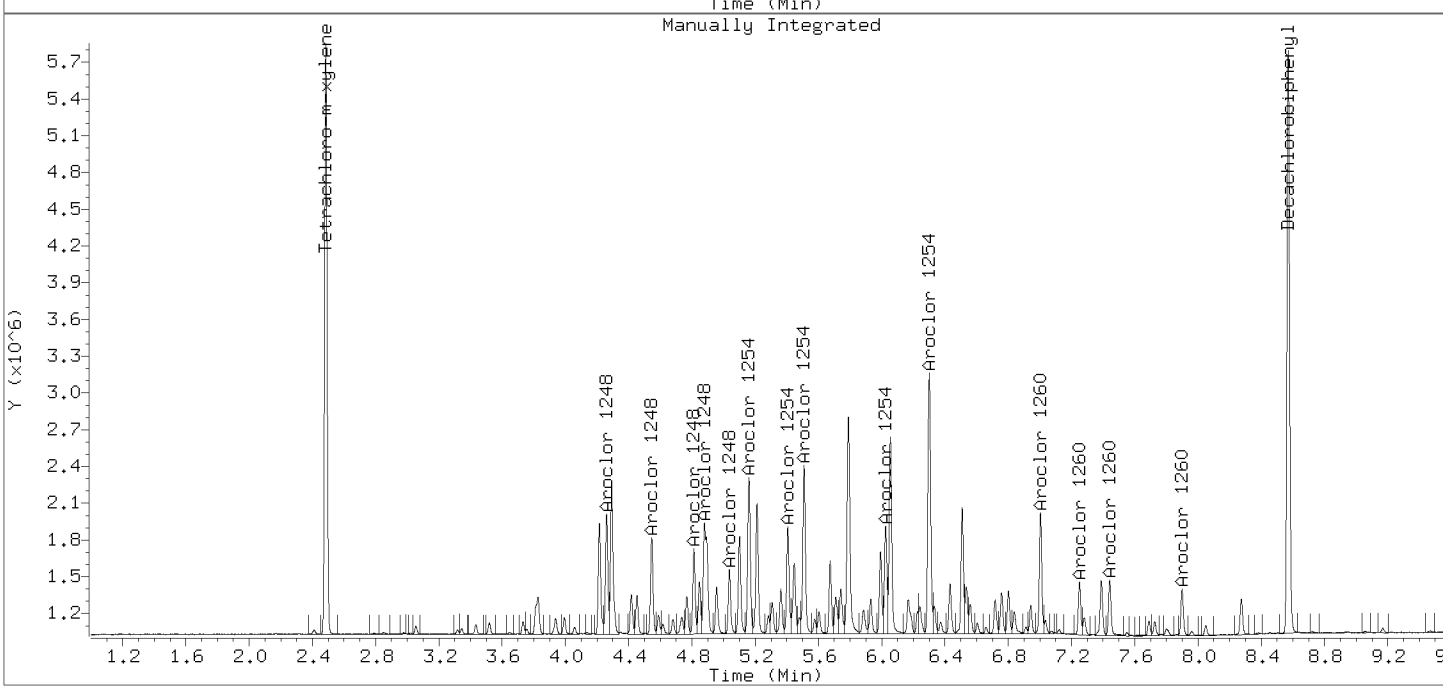
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118018.D
Date : 11-APR-2018 18:14
Client ID: ND3-170615-01-SMB-0
Sample Info: 40157698013 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 18:14 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698013





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	35931	0	
Aroclor 1016	35931	0	
Aroclor 1016	35931	0	
Aroclor 1016	35931	0	
Aroclor 1016	35931	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	25072	0	
Aroclor 1232	25072	0	
Aroclor 1232	25072	0	
Aroclor 1232	25072	0	

Aroclor 1232	25072	0	
Aroclor 1242	35931	0	
Aroclor 1242	35931	0	
Aroclor 1242	35931	0	
Aroclor 1242	35931	0	
Aroclor 1242	35931	0	
Aroclor 1248	1034658	1048707	BA
Aroclor 1248	1034658	1048707	BA
Aroclor 1248	1034658	1048707	BA
Aroclor 1248	1034658	1048707	BA
Aroclor 1248	1034658	1048707	BA
Aroclor 1254	1476065	1510303	BA
Aroclor 1254	1476065	1510303	BA
Aroclor 1254	1476065	1510303	BA
Aroclor 1254	1476065	1510303	BA
Aroclor 1254	1476065	1510303	BA
Aroclor 1260	2646579	0	BA
Aroclor 1260	2646579	0	BA
Aroclor 1260	2646579	0	BA
Aroclor 1260	2646579	0	BA
Aroclor 1260	2646579	0	BA
Tetrachloro-m-xylene	5217721	5217721	
Decachlorobiphenyl	5468702	5468702	

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SAMPLE NO.

ND3-170615-01-SMB-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/10/2018 07:13
Lab Sample ID: 40157698014
Date Analyzed: 04/11/2018 18:30
Lab File ID: 041118.B\041118019.D
Initial wt/vol: 10.0012 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)	387	
11097-69-1	PCB-1254 (Aroclor 1254)	359	
11096-82-5	PCB-1260 (Aroclor 1260)	225	
1336-36-3	PCB, Total	971	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118019.D
Lab Smp Id: 40157698014 Client Smp ID: ND3-170615-01-SMB-0
Inj Date : 11-APR-2018 18:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698014 x2,
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: 19
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	10.001	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.168	11238	7152	0.636	0.01		
2.411	62988	47155	0.749	0.09		
2.485	5460579	5074552	0.929	8.33	$ 2 Tetrachloro-m-xylene	
2.790	19422	14661	0.755	0.02		
2.848	28300	19921	0.704	0.04		
2.974	9762	9989	1.023	0.01		
3.018	10713	10924	1.020	0.01		
3.054	92918	89749	0.966	0.14		
3.318	46689	45188	0.968	0.07		
3.344	67850	60649	0.894	0.10		
3.434	108495	105443	0.972	0.16		
3.519	142887	123387	0.864	0.21		
3.646	26047	18397	0.706	0.03		
3.733	179971	132327	0.735	0.27		
3.827	675994	411233	0.608	1.03		
3.939	164517	132009	0.802	0.25		
3.993	179280	160785	0.897	0.27		
4.059	80273	70553	0.879	0.12		
4.136	18946	15747	0.831	0.02		
4.215	1285815	1121029	0.872	1.96		
4.262	1350191	1271299	0.942	2.06	6 Aroclor 1248	BA
4.293	1830801	1510894	0.825	2.79		
4.346	22981	18872	0.821	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	436434	418225	0.958	0.66	
4.453	444342	401870	0.904	0.67	
4.546	1095840	1010187	0.922	1.67	6 Aroclor 1248
4.590	197160	182256	0.924	0.30	
4.618	121351	99270	0.818	0.18	
4.681	170175	154802	0.910	0.25	
4.736	229410	186007	0.811	0.35	
4.768	400857	379072	0.946	0.61	
4.812	948759	918083	0.968	1.44	6 Aroclor 1248
4.848	628122	588897	0.938	0.95	
4.879	2110956	1164457	0.552	3.22	6 Aroclor 1248
4.956	560215	487121	0.870	0.85	
5.037	745534	707696	0.949	1.13	6 Aroclor 1248
5.101	1129063	1003454	0.889	1.72	
5.161	1966808	1651447	0.840	3.00	7 Aroclor 1254
5.211	1631095	1378090	0.845	2.49	
5.284	205406	198911	0.968	0.31	
5.307	371344	310688	0.837	0.56	
5.363	558267	480323	0.860	0.85	
5.407	1284581	1112041	0.866	1.96	7 Aroclor 1254
5.448	960940	788406	0.820	1.46	
5.478	160529	169474	1.056	0.24	
5.510	2102820	1784841	0.849	3.21	7 Aroclor 1254
5.577	182271	170479	0.935	0.27	
5.604	263979	237827	0.901	0.40	
5.675	786229	740925	0.942	1.20	
5.710	456750	360572	0.789	0.69	
5.742	635480	493699	0.777	0.97	
5.790	3173271	2469852	0.778	4.84	
5.886	328802	242895	0.739	0.50	
5.931	468149	397459	0.849	0.71	
5.993	1057160	951333	0.900	1.61	
6.025	1342648	1150412	0.857	2.05	7 Aroclor 1254
6.055	2719485	2289720	0.842	4.15	
6.168	587860	373628	0.636	0.89	
6.226	219170	252413	1.152	0.33	
6.241	386046	292113	0.757	0.58	
6.301	3745945	2935788	0.784	5.72	7 Aroclor 1254
6.332	338863	324404	0.957	0.51	
6.374	156611	133344	0.851	0.23	
6.432	683876	602076	0.880	1.04	
6.509	1645631	1430245	0.869	2.51	
6.535	562871	546398	0.971	0.85	
6.559	413836	346875	0.838	0.63	
6.605	138699	123066	0.887	0.21	
6.661	81641	71585	0.877	0.12	
6.718	421676	360064	0.854	0.64	
6.758	521896	482190	0.924	0.79	
6.801	562431	514007	0.914	0.85	
6.838	336426	267856	0.796	0.51	
6.912	86076	82146	0.954	0.13	
6.942	359353	327183	0.910	0.54	
7.004	1725676	1555041	0.901	2.63	8 Aroclor 1260
7.036	169638	160649	0.947	0.25	
7.073	26458	28001	1.058	0.04	
7.120	51817	45792	0.884	0.07	
7.250	733240	653311	0.891	1.11	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.282	257619	215821	0.838	0.39	
7.389	826830	708505	0.857	1.26	
7.442	857314	770621	0.899	1.30	8 Aroclor 1260
7.551	55372	51392	0.928	0.08	
7.691	218583	197159	0.902	0.33	
7.727	188081	161181	0.857	0.28	
7.801	112846	76647	0.679	0.17	
7.858	12981	12779	0.984	0.01	
7.901	740142	663431	0.896	1.13	8 Aroclor 1260
7.962	87737	55852	0.637	0.13	
8.048	100545	89844	0.894	0.15	
8.274	545405	497482	0.912	0.83	
8.386	14297	10267	0.718	0.02	
8.453	18863	13105	0.695	0.02	
8.504	10127	9937	0.981	0.01	
8.570	5569464	4779861	0.858	9.01	$ 12 Decachlorobiphenyl
8.724	28017	17685	0.631	0.04	
8.946	10944	9936	0.908	0.01	
9.056	24116	15910	0.660	0.03	
9.169	55338	48483	0.876	0.08	
9.461	13683	10757	0.786	0.02	
9.963	25220	17201	0.682	0.03	
	65480146	55894737		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118019.D
Lab Smp Id: 40157698014 Client Smp ID: ND3-170615-01-SMB-0
Inj Date : 11-APR-2018 18:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698014 x2,
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: 19
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	10.001	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.484	2.484	0.000	5460578	0.04429	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	1350190	0.57627	580	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1095840	0.26404	260	0.00- 20.00	81.16	BA
4.812	4.812	0.000	948758	0.46735	470	0.00- 20.00	70.27	BA
4.878	4.879	-0.001	2110956	0.41905	420	0.00- 20.00	156.35	BA
5.036	5.038	-0.002	745534	0.20775	210	0.00- 20.00	55.22	BA
Average of Peak Concentrations =					390			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1966808	0.37569	380	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1284581	0.29867	300	0.00- 20.00	65.31	BA
5.509	5.510	-0.001	2102820	0.27077	270	0.00- 20.00	106.92	BA
6.024	6.027	-0.003	1342648	0.27572	280	0.00- 20.00	68.27	BA
6.300	6.299	0.001	3745944	0.57567	580	0.00- 20.00	190.46	BA
Average of Peak Concentrations =					360			
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	1725675	0.17232	170	0.00- 20.00	46.07	BA
7.250	7.251	-0.001	733239	0.15340	150	0.00- 20.00	19.57	BA
7.441	7.443	-0.002	857314	0.29409	290	0.00- 20.00	22.89	BA
7.900	7.901	-0.001	740141	0.28049	280	0.00- 20.00	19.76	BA
Average of Peak Concentrations =					220			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5569464	0.05083	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\041118.b\041118019.D

Date : 11-APR-2018 18:30

Client ID: ND3-170615-01-SMB-0

Instrument: 40GCSJ.i

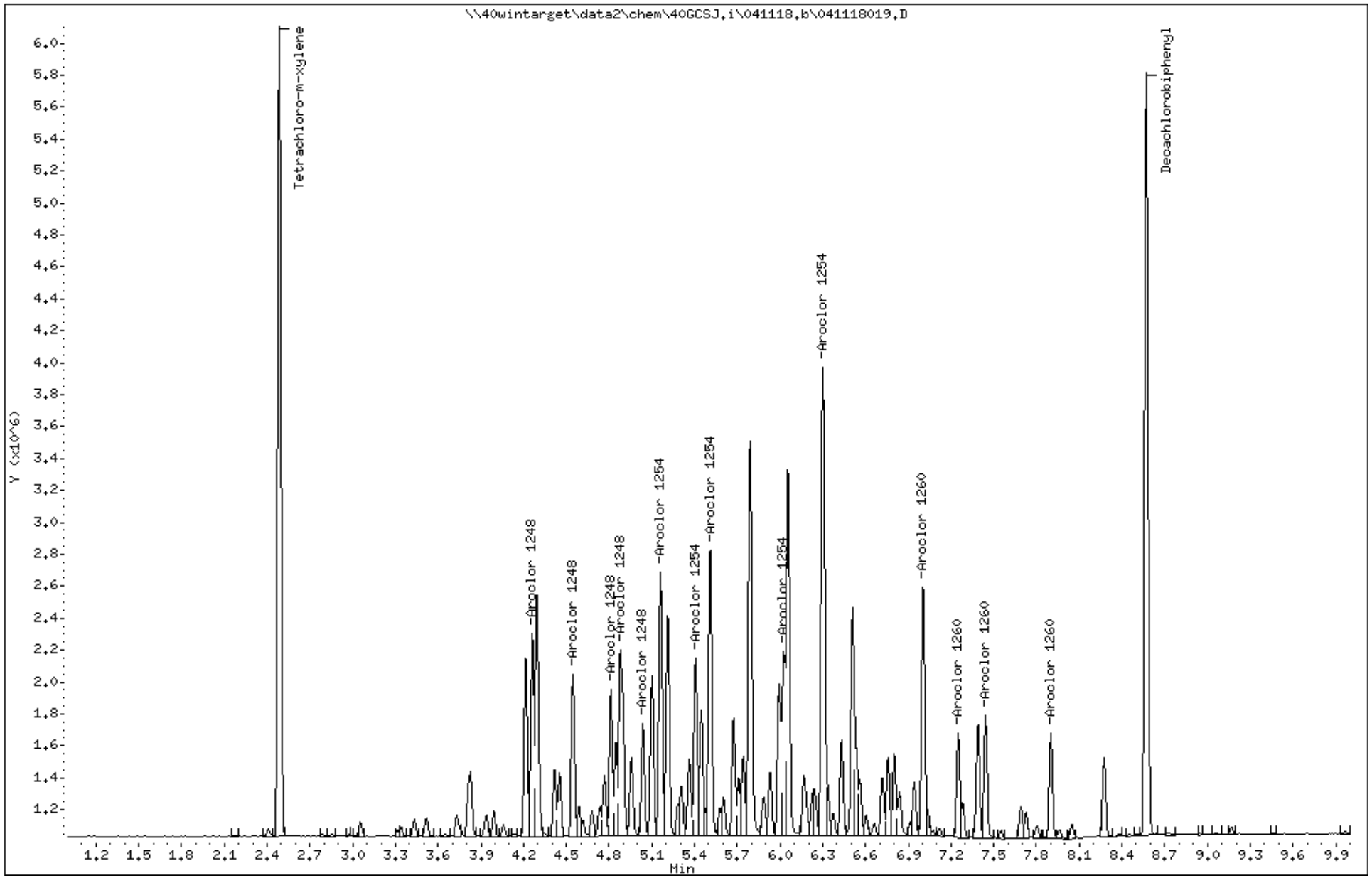
Sample Info: 40157698014 x2,

Volume Injected (uL): 1.0

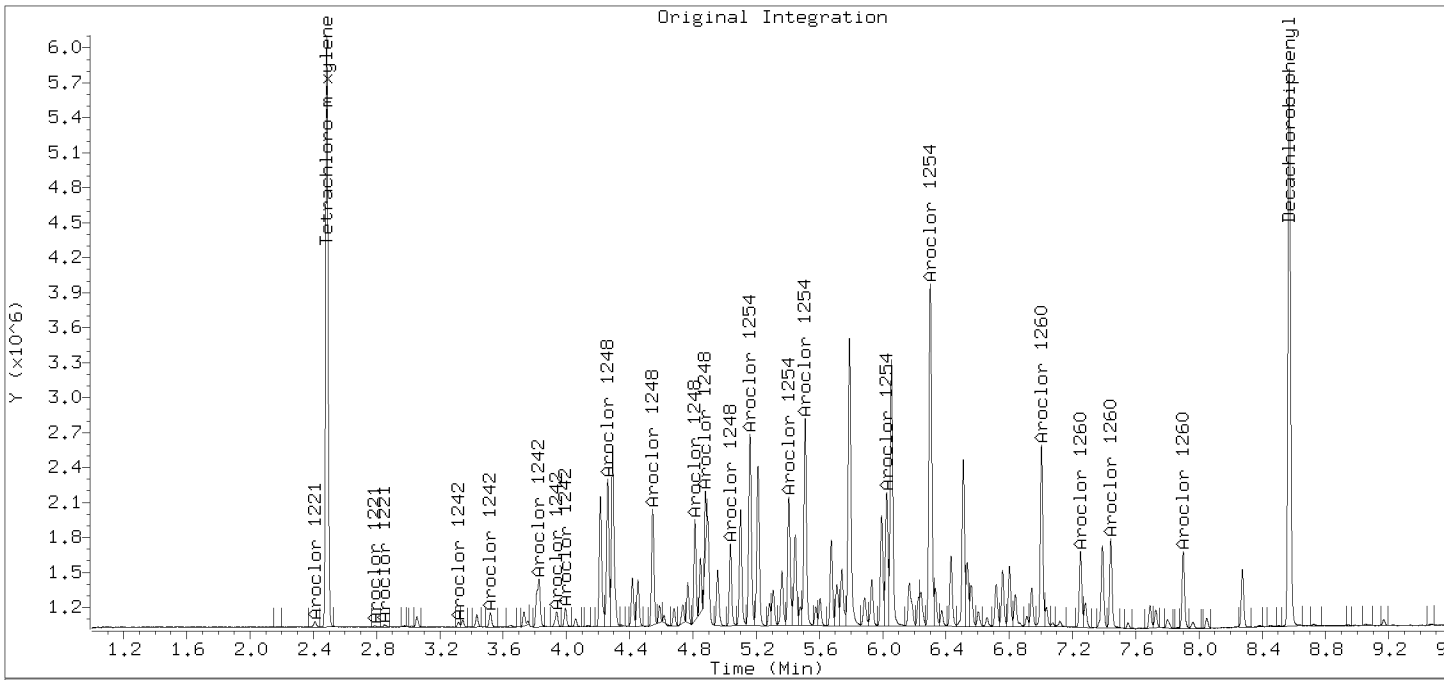
Operator: BLM

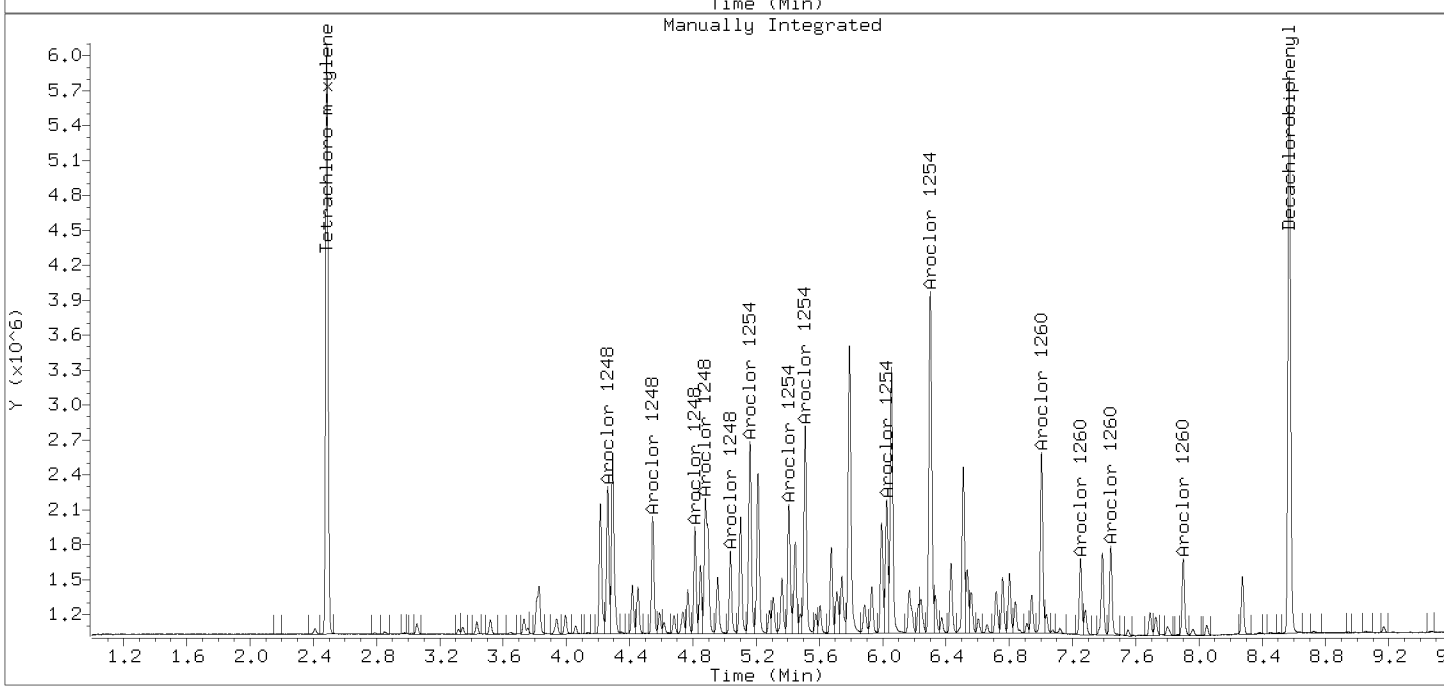
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 18:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	46689	0	
Aroclor 1016	46689	0	
Aroclor 1016	46689	0	
Aroclor 1016	46689	0	
Aroclor 1016	46689	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	28299	0	
Aroclor 1232	28299	0	
Aroclor 1232	28299	0	
Aroclor 1232	28299	0	

Aroclor 1232	28299	0	
Aroclor 1242	46689	0	
Aroclor 1242	46689	0	
Aroclor 1242	46689	0	
Aroclor 1242	46689	0	
Aroclor 1242	46689	0	
Aroclor 1248	1341941	1350190	BA
Aroclor 1248	1341941	1350190	BA
Aroclor 1248	1341941	1350190	BA
Aroclor 1248	1341941	1350190	BA
Aroclor 1248	1341941	1350190	BA
Aroclor 1254	1931322	1966808	BA
Aroclor 1254	1931322	1966808	BA
Aroclor 1254	1931322	1966808	BA
Aroclor 1254	1931322	1966808	BA
Aroclor 1254	1931322	1966808	BA
Aroclor 1260	3743294	0	BA
Aroclor 1260	3743294	0	BA
Aroclor 1260	3743294	0	BA
Aroclor 1260	3743294	0	BA
Aroclor 1260	3743294	0	BA
Tetrachloro-m-xylene	5460578	5460578	
Decachlorobiphenyl	5569464	5569464	

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SAMPLE NO.

ND3-170615-01-SMB-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/10/2018 07:13
Lab Sample ID: 40157698015
Date Analyzed: 04/11/2018 18:45
Lab File ID: 041118.B\041118020.D
Initial wt/vol: 10.0047 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)	199	
11097-69-1	PCB-1254 (Aroclor 1254)	177	
11096-82-5	PCB-1260 (Aroclor 1260)	98.0	
1336-36-3	PCB, Total	474	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118020.D
Lab Smp Id: 40157698015 Client Smp ID: ND3-170615-01-SMB-0
Inj Date : 11-APR-2018 18:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698015,
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: 20
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	10.005	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.035	12076	8667	0.718	0.01		
1.074	9850	7611	0.773	0.01		
1.152	11168	9762	0.874	0.01		
1.183	25996	16498	0.635	0.03		
1.426	10294	8376	0.814	0.01		
2.200	26771	16976	0.634	0.03		
2.291	12432	9129	0.734	0.01		
2.411	88198	70126	0.795	0.12		
2.485	9680729	8862007	0.915	13.25	$ 2 Tetrachloro-m-xylene	
2.787	19018	17351	0.912	0.02		
2.854	30442	24084	0.791	0.04		
2.973	34958	20440	0.585	0.04		
3.021	20891	18505	0.886	0.02		
3.055	114337	107359	0.939	0.15		
3.319	49114	50610	1.030	0.06		
3.342	88208	73060	0.828	0.12		
3.403	12048	12826	1.065	0.01		
3.433	139768	124356	0.890	0.19		
3.519	145421	125284	0.862	0.19		
3.648	25370	21108	0.832	0.03		
3.694	11820	11732	0.993	0.01		
3.732	170656	130484	0.765	0.23		
3.826	701697	456218	0.650	0.96		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.937	152321	119167	0.782	0.20	
3.993	177312	162495	0.916	0.24	
4.058	81084	71281	0.879	0.11	
4.136	25362	18829	0.742	0.03	
4.214	1259174	1075814	0.854	1.72	
4.261	1233627	1134391	0.920	1.68	6 Aroclor 1248
4.292	1742210	1458914	0.837	2.38	
4.347	28333	18052	0.637	0.03	
4.417	452053	427470	0.946	0.61	
4.452	434001	381137	0.878	0.59	
4.545	1117040	1028018	0.920	1.52	6 Aroclor 1248
4.589	225435	207880	0.922	0.30	
4.617	113821	94423	0.830	0.15	
4.680	164927	148397	0.900	0.22	
4.736	213543	159980	0.749	0.29	
4.768	446129	423126	0.948	0.61	
4.813	1073631	1004490	0.936	1.47	6 Aroclor 1248
4.846	514301	498672	0.970	0.70	
4.879	2210291	1302296	0.589	3.02	6 Aroclor 1248
4.957	531552	445588	0.838	0.72	
5.037	809176	738282	0.912	1.10	6 Aroclor 1248
5.101	1136712	1007167	0.886	1.55	
5.161	1945838	1620921	0.833	2.66	7 Aroclor 1254
5.211	1579225	1369730	0.867	2.16	
5.284	188799	180581	0.956	0.25	
5.307	391541	337183	0.861	0.53	
5.363	564835	446144	0.790	0.77	
5.406	1289493	1175990	0.912	1.76	7 Aroclor 1254
5.446	870076	718353	0.826	1.19	
5.479	162469	162265	0.999	0.22	
5.510	1965970	1666853	0.848	2.69	7 Aroclor 1254
5.577	159592	147379	0.923	0.21	
5.603	266345	226374	0.850	0.36	
5.674	809788	763052	0.942	1.10	
5.710	504872	422671	0.837	0.69	
5.742	653984	503576	0.770	0.89	
5.790	3051618	2317638	0.759	4.17	
5.885	355559	267397	0.752	0.48	
5.931	493555	414870	0.841	0.67	
5.993	1076640	969964	0.901	1.47	
6.025	1408432	1184086	0.841	1.92	7 Aroclor 1254
6.055	2651918	2288482	0.863	3.63	
6.169	594317	374465	0.630	0.81	
6.226	229507	254719	1.110	0.31	
6.241	399621	320773	0.803	0.54	
6.300	3609294	2973248	0.824	4.94	7 Aroclor 1254
6.332	328788	306442	0.932	0.45	
6.374	164261	135619	0.826	0.22	
6.431	720198	649153	0.901	0.98	
6.508	1629586	1447709	0.888	2.23	
6.534	573603	534449	0.932	0.78	
6.560	374731	341125	0.910	0.51	
6.605	139739	121624	0.870	0.19	
6.659	76407	72667	0.951	0.10	
6.718	405973	351512	0.866	0.55	
6.758	572124	511667	0.894	0.78	
6.801	559806	504939	0.902	0.76	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.839	320190	250474	0.782	0.43	
6.911	75869	73678	0.971	0.10	
6.942	334211	310297	0.928	0.45	
7.004	1621866	1423312	0.878	2.22	8 Aroclor 1260
7.035	152911	152507	0.997	0.20	
7.075	25580	25941	1.014	0.03	
7.120	49710	42769	0.860	0.06	
7.250	699756	626557	0.895	0.95	8 Aroclor 1260
7.280	253619	214196	0.845	0.34	
7.340	16421	13586	0.827	0.02	
7.389	715455	611617	0.855	0.97	
7.441	717226	634572	0.885	0.98	8 Aroclor 1260
7.552	45505	41584	0.914	0.06	
7.579	12059	11544	0.957	0.01	
7.689	186971	170064	0.910	0.25	
7.727	167504	143777	0.858	0.22	
7.800	107950	67004	0.621	0.14	
7.900	607026	525324	0.865	0.83	8 Aroclor 1260
7.964	67074	45374	0.676	0.09	
8.049	124437	106284	0.854	0.17	
8.144	14197	8582	0.605	0.01	
8.274	438102	375449	0.857	0.60	
8.377	23284	16656	0.715	0.03	
8.451	14124	9300	0.658	0.01	
8.571	9713480	8280296	0.852	13.87	$ 12 Decachlorobiphenyl
8.722	23337	14795	0.634	0.03	
8.942	15130	12714	0.840	0.02	
9.052	22252	15923	0.716	0.03	
9.167	41263	34812	0.844	0.05	
9.465	34049	16275	0.478	0.04	
9.960	21957	14155	0.645	0.03	
	73014317	62501476		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118020.D
Lab Smp Id: 40157698015 Client Smp ID: ND3-170615-01-SMB-0
Inj Date : 11-APR-2018 18:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698015,
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: 20
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	10.005	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.485	2.484	0.001	9680729	0.07852	39			

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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	1233627	0.52652	260	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1117040	0.26915	130	0.00- 20.00	90.55	BA
4.812	4.812	0.000	1073631	0.52886	260	0.00- 20.00	87.03	BA
4.879	4.879	0.000	2210290	0.43877	220	0.00- 20.00	179.17	BA
5.037	5.038	-0.001	809175	0.22549	110	0.00- 20.00	65.59	BA
Average of Peak Concentrations =					200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1945838	0.37168	180	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1289492	0.29981	150	0.00- 20.00	66.27	BA
5.509	5.510	-0.001	1965970	0.25315	130	0.00- 20.00	101.03	BA
6.025	6.027	-0.002	1408431	0.28922	140	0.00- 20.00	72.38	BA
6.300	6.299	0.001	3609293	0.55467	280	0.00- 20.00	185.49	BA
Average of Peak Concentrations =					180			
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	1621865	0.16195	81	0.00- 20.00	44.94	BA
7.250	7.251	-0.001	699756	0.14640	73	0.00- 20.00	19.39	BA
7.441	7.443	-0.002	717226	0.24604	120	0.00- 20.00	19.87	BA
7.899	7.901	-0.002	607026	0.23004	110	0.00- 20.00	16.82	BA
Average of Peak Concentrations =					98			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9713480	0.08866	44			

QC Flag Legend

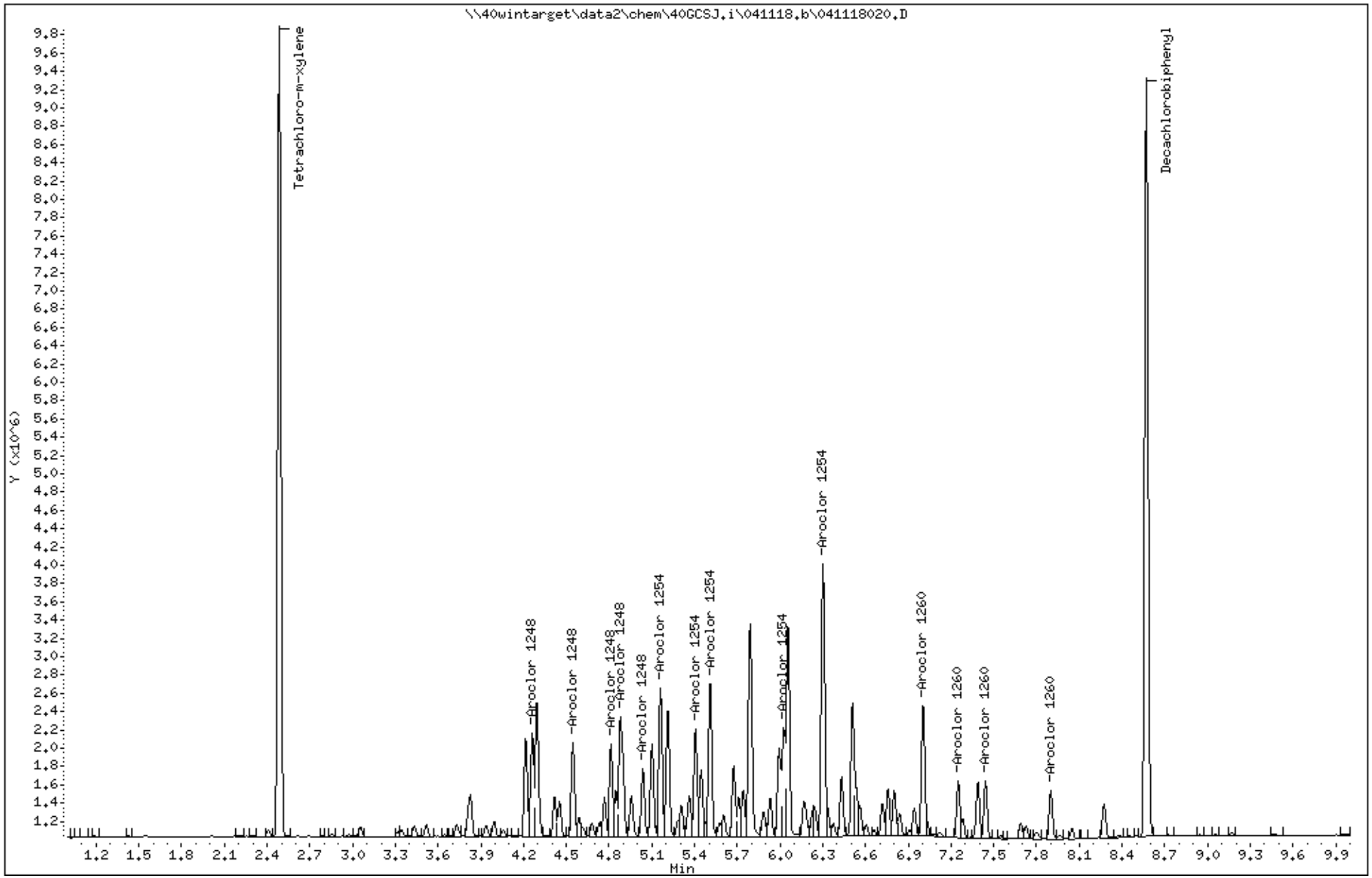
M - Compound response manually integrated.

Review Codes Legend

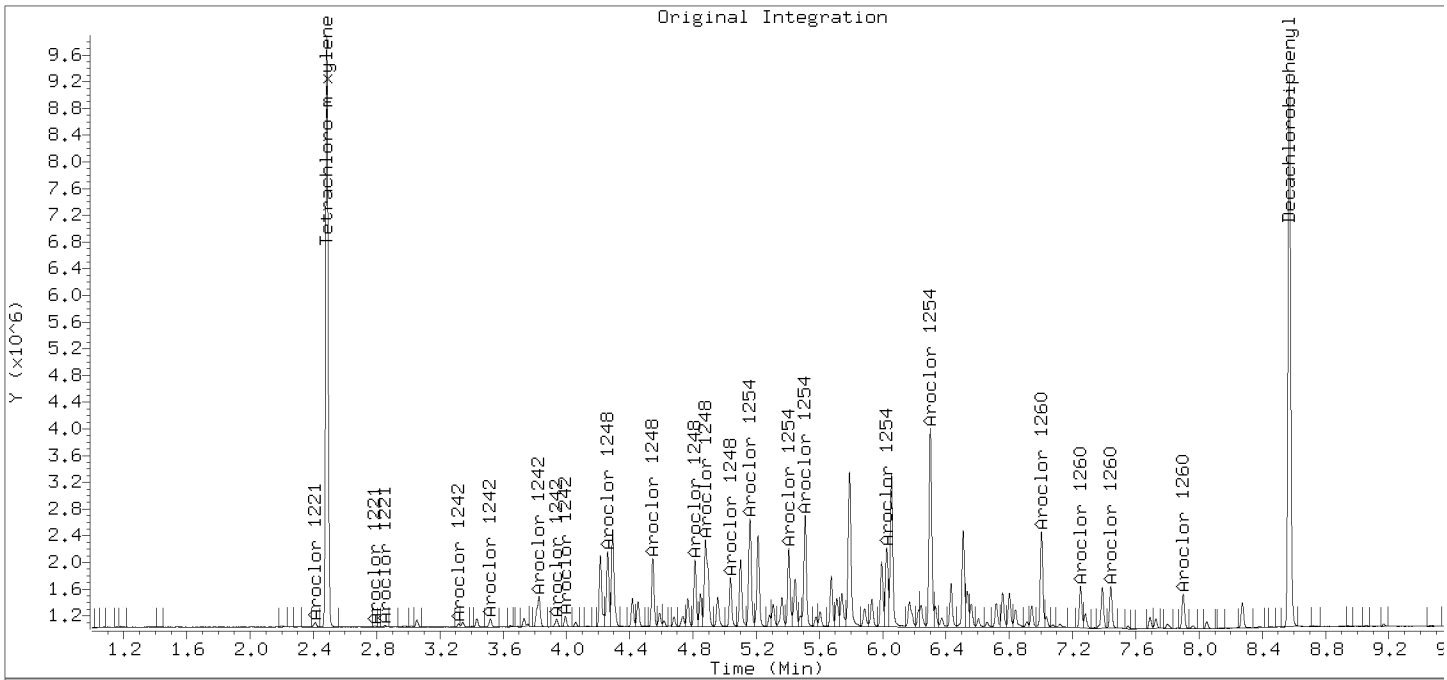
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

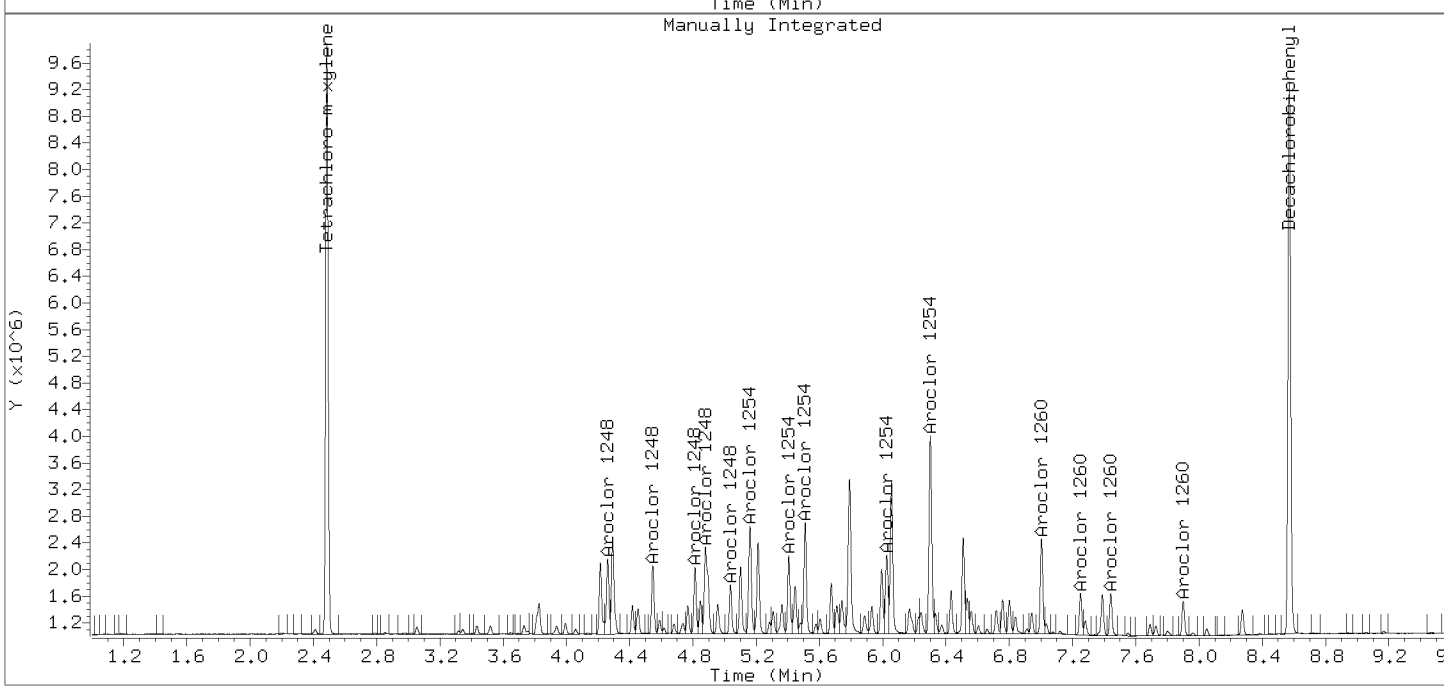
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118020.D
Date : 11-APR-2018 18:45
Client ID: ND3-170615-01-SMB-0
Sample Info: 40157698015,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 18:45 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698015





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	49113	0	
Aroclor 1016	49113	0	
Aroclor 1016	49113	0	
Aroclor 1016	49113	0	
Aroclor 1016	49113	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	30441	0	
Aroclor 1232	30441	0	
Aroclor 1232	30441	0	
Aroclor 1232	30441	0	

Aroclor 1232	30441	0	
Aroclor 1242	49113	0	
Aroclor 1242	49113	0	
Aroclor 1242	49113	0	
Aroclor 1242	49113	0	
Aroclor 1242	49113	0	
Aroclor 1248	1224163	1233627	BA
Aroclor 1248	1224163	1233627	BA
Aroclor 1248	1224163	1233627	BA
Aroclor 1248	1224163	1233627	BA
Aroclor 1248	1224163	1233627	BA
Aroclor 1254	1935424	1945838	BA
Aroclor 1254	1935424	1945838	BA
Aroclor 1254	1935424	1945838	BA
Aroclor 1254	1935424	1945838	BA
Aroclor 1254	1935424	1945838	BA
Aroclor 1260	3620487	0	BA
Aroclor 1260	3620487	0	BA
Aroclor 1260	3620487	0	BA
Aroclor 1260	3620487	0	BA
Aroclor 1260	3620487	0	BA
Tetrachloro-m-xylene	9680729	9680729	
Decachlorobiphenyl	9713480	9713480	

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SAMPLE NO.

ND3-170615-01-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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/10/2018 07:13
Lab Sample ID: 40157698016
Date Analyzed: 04/11/2018 19:01
Lab File ID: 041118.B\041118021.D
Initial wt/vol: 10.0234 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)	505	
11097-69-1	PCB-1254 (Aroclor 1254)	586	
11096-82-5	PCB-1260 (Aroclor 1260)	265	
1336-36-3	PCB, Total	1360	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118021.D
Lab Smp Id: 40157698016 Client Smp ID: ND3-170615-01-SMB-0
Inj Date : 11-APR-2018 19:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698016 x3,
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: 21
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	10.023	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.410	27353	19005	0.695	0.04		
2.486	3226349	2962845	0.918	5.31	$ 2 Tetrachloro-m-xylene	
2.851	15592	10394	0.667	0.02		
2.975	12211	10842	0.888	0.02		
3.056	38126	33067	0.867	0.06		
3.318	26884	26024	0.968	0.04		
3.346	39811	35538	0.893	0.06		
3.435	80464	69566	0.865	0.13		
3.519	83049	74104	0.892	0.13		
3.648	19283	15444	0.801	0.03		
3.732	120534	87676	0.727	0.19		
3.827	416736	250321	0.601	0.68		
3.939	139872	110775	0.792	0.23		
3.995	109274	96106	0.879	0.18		
4.059	62753	52342	0.834	0.10		
4.215	1081039	980829	0.907	1.78		
4.261	1133861	1078220	0.951	1.86	6 Aroclor 1248	BA
4.292	1670036	1380844	0.827	2.75		
4.417	341299	318219	0.932	0.56		
4.452	364168	319133	0.876	0.60		
4.546	980996	893051	0.910	1.61	6 Aroclor 1248	BA
4.589	202278	188373	0.931	0.33		
4.618	82652	66397	0.803	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.681	190764	170939	0.896	0.31	
4.737	250942	205741	0.820	0.41	
4.768	404299	379693	0.939	0.66	
4.812	804601	779139	0.968	1.32	6 Aroclor 1248
4.848	414753	393589	0.949	0.68	
4.879	2035563	1027829	0.505	3.35	6 Aroclor 1248
4.956	631191	561926	0.890	1.04	
5.037	592496	534283	0.902	0.97	6 Aroclor 1248
5.101	1328597	1176292	0.885	2.18	
5.161	2088275	1743628	0.835	3.44	7 Aroclor 1254
5.211	1748147	1490449	0.853	2.88	
5.283	238847	237777	0.996	0.39	
5.306	444685	374953	0.843	0.73	
5.362	561221	506428	0.902	0.92	
5.406	1379607	1198325	0.869	2.27	7 Aroclor 1254
5.446	948108	784600	0.828	1.56	
5.479	240270	216371	0.901	0.39	
5.509	2235249	1919767	0.859	3.68	7 Aroclor 1254
5.577	204259	184389	0.903	0.33	
5.605	273196	237550	0.870	0.45	
5.675	1055310	1002965	0.950	1.73	
5.709	567205	453322	0.799	0.93	
5.742	693335	543045	0.783	1.14	
5.790	3495532	2720305	0.778	5.76	
5.884	384764	291949	0.759	0.63	
5.931	515705	442749	0.859	0.84	
5.993	1108293	1000538	0.903	1.82	
6.025	1532169	1300471	0.849	2.52	7 Aroclor 1254
6.055	2759268	2292539	0.831	4.54	
6.169	713522	426715	0.598	1.17	
6.227	246886	269415	1.091	0.40	
6.241	430421	330140	0.767	0.70	
6.300	4144525	3330662	0.804	7.28	7 Aroclor 1254
6.332	374963	340354	0.908	0.61	
6.373	173062	152066	0.879	0.28	
6.431	748785	631312	0.843	1.23	
6.510	1620321	1434299	0.885	2.67	
6.534	659107	607921	0.922	1.08	
6.560	378658	346177	0.914	0.62	
6.604	147254	125175	0.850	0.24	
6.660	85228	78667	0.923	0.14	
6.718	478778	417719	0.872	0.78	
6.758	581207	520572	0.896	0.95	
6.802	582221	523124	0.898	0.95	
6.838	338100	267460	0.791	0.55	
6.911	77741	74338	0.956	0.12	
6.943	301878	280224	0.928	0.49	
7.004	1476193	1297536	0.879	2.43	8 Aroclor 1260
7.036	160781	142916	0.889	0.26	
7.075	30189	29029	0.962	0.04	
7.121	66807	50491	0.756	0.11	
7.250	689570	635653	0.922	1.13	8 Aroclor 1260
7.283	239403	199291	0.832	0.39	
7.389	697368	633775	0.909	1.14	
7.442	663036	597467	0.901	1.09	8 Aroclor 1260
7.552	44859	37813	0.843	0.07	
7.690	188740	173632	0.920	0.31	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.727	153529	124559	0.811	0.25	
7.802	88222	56841	0.644	0.14	
7.900	502242	447879	0.892	0.82	8 Aroclor 1260
7.963	66063	41005	0.621	0.10	
8.049	97695	86842	0.889	0.16	
8.274	370519	334277	0.902	0.61	
8.378	18163	11741	0.646	0.02	
8.452	15413	10439	0.677	0.02	
8.498	9713	7275	0.749	0.01	
8.571	3488046	3057585	0.877	5.74	$ 12 Decachlorobiphenyl
8.727	15332	13149	0.858	0.02	
8.939	13922	8562	0.615	0.02	
9.170	54058	44152	0.817	0.08	
9.470	19948	12036	0.603	0.03	
9.798	10959	4966	0.453	0.01	
9.961	20196	14308	0.708	0.03	
	60684892	51480225		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118021.D
Lab Smp Id: 40157698016 Client Smp ID: ND3-170615-01-SMB-0
Inj Date : 11-APR-2018 19:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157698016 x3,
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: 21
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	10.023	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	3226348	0.02617	39			

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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	1133861	0.48394	720	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	980996	0.23637	350	0.00- 20.00	86.52	BA
4.811	4.812	-0.001	804600	0.39634	590	0.00- 20.00	70.96	BA
4.878	4.879	-0.001	2035562	0.40409	600	0.00- 20.00	179.52	BA
5.036	5.038	-0.002	592496	0.16511	250	0.00- 20.00	52.25	BA
			Average of Peak Concentrations =		500			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2088275	0.39889	600	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1379607	0.32076	480	0.00- 20.00	66.06	BA
5.508	5.510	-0.002	2235248	0.28782	430	0.00- 20.00	107.04	BA
6.025	6.027	-0.002	1532169	0.31463	470	0.00- 20.00	73.37	BA
6.299	6.299	0.000	4144524	0.63692	950	0.00- 20.00	198.47	BA
			Average of Peak Concentrations =		590			
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	1476192	0.14741	220	0.00- 20.00	35.62	BA
7.250	7.251	-0.001	689569	0.14427	220	0.00- 20.00	16.64	BA
7.441	7.443	-0.002	663035	0.22745	340	0.00- 20.00	16.00	BA
7.899	7.901	-0.002	502242	0.19033	280	0.00- 20.00	12.12	BA
			Average of Peak Concentrations =		260			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3488045	0.03184	48			

QC Flag Legend

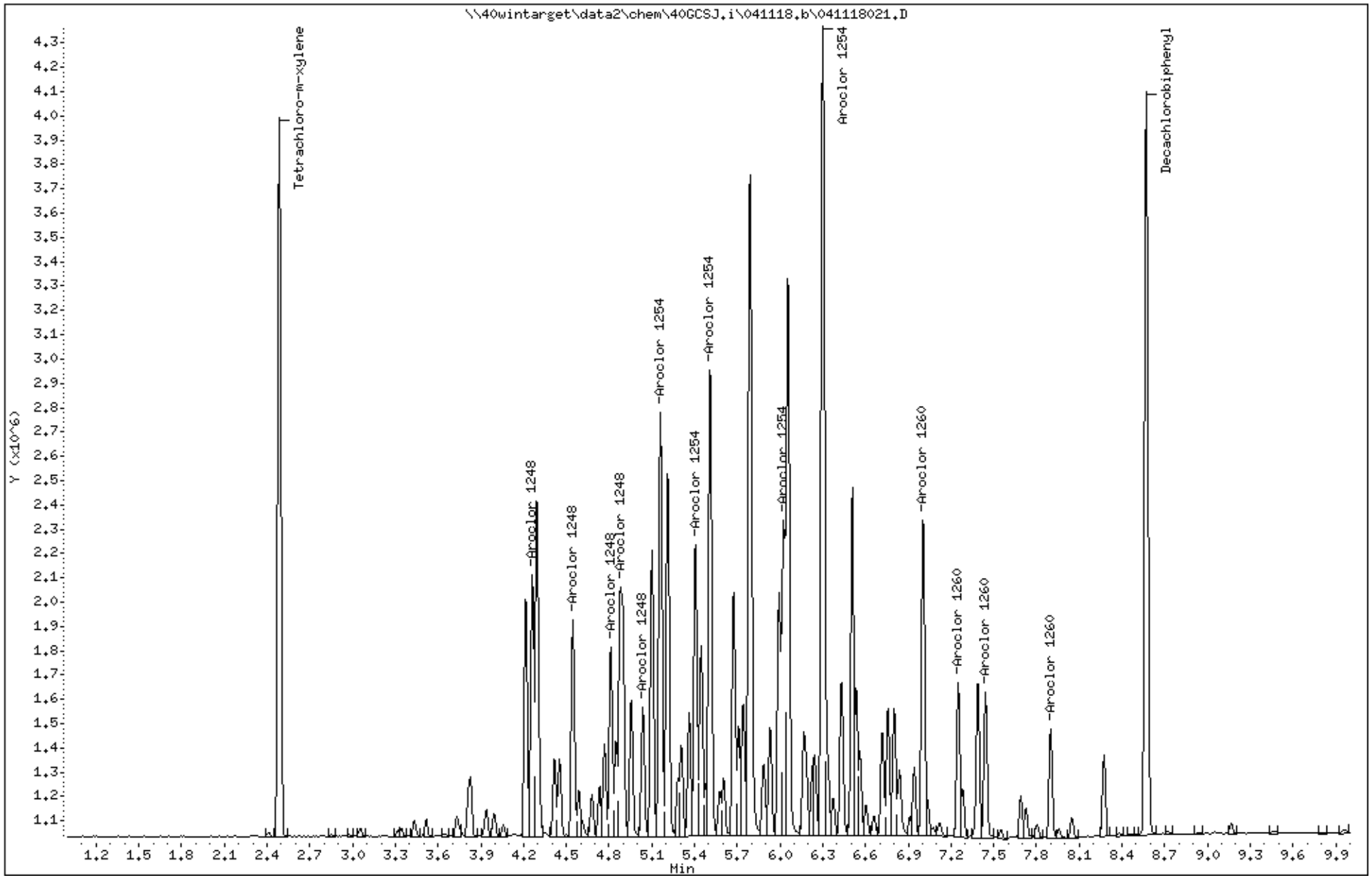
M - Compound response manually integrated.

Review Codes Legend

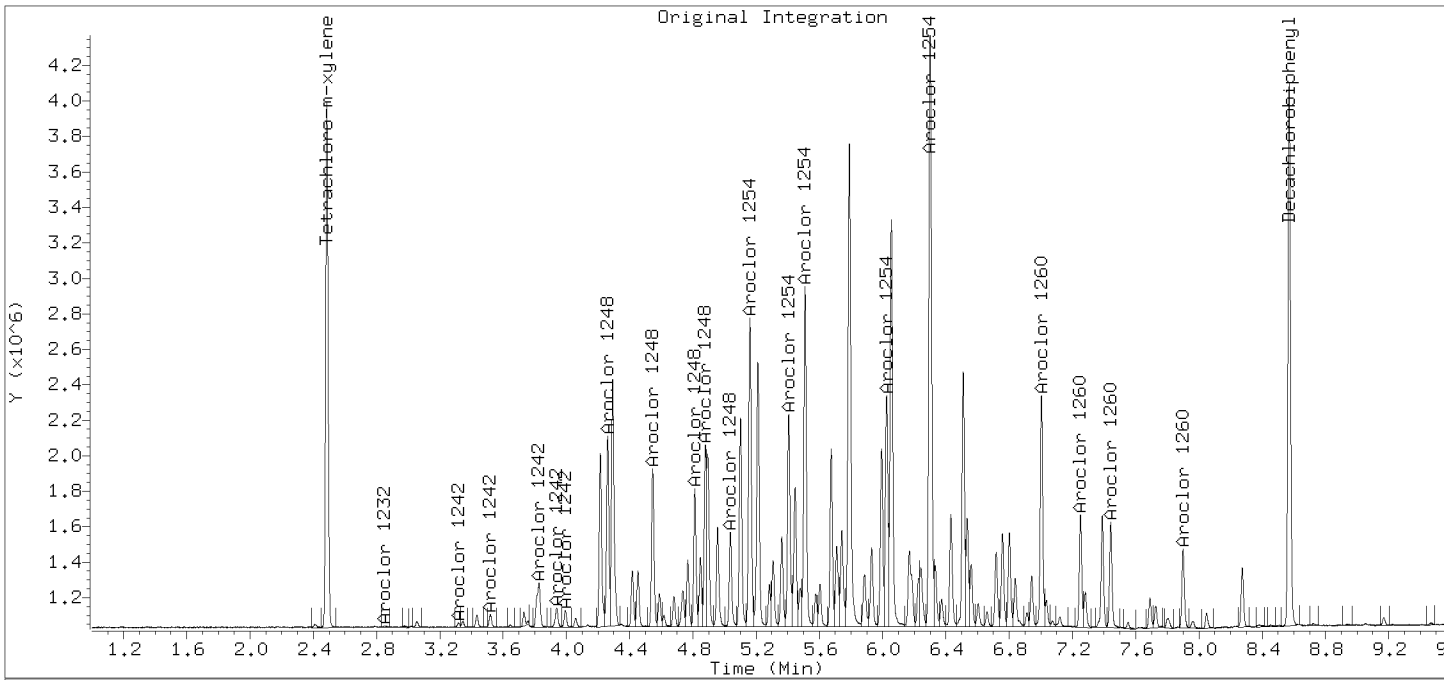
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

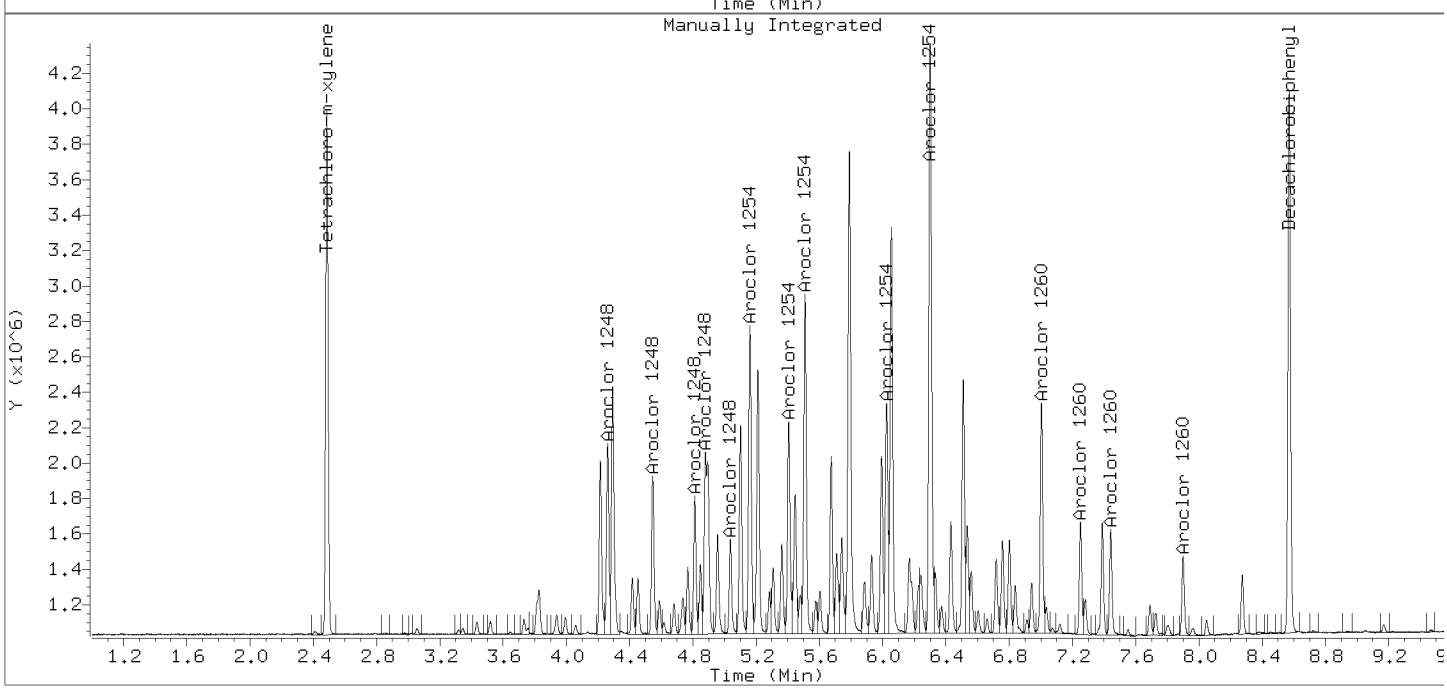
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118021.D
Date : 11-APR-2018 19:01
Client ID: ND3-170615-01-SMB-0
Sample Info: 40157698016 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 19:01 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157698016





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	26883	0	
Aroclor 1016	26883	0	
Aroclor 1016	26883	0	
Aroclor 1016	26883	0	
Aroclor 1016	26883	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	15591	0	
Aroclor 1232	15591	0	
Aroclor 1232	15591	0	
Aroclor 1232	15591	0	

Aroclor 1232	15591	0	
Aroclor 1242	26883	0	
Aroclor 1242	26883	0	
Aroclor 1242	26883	0	
Aroclor 1242	26883	0	
Aroclor 1242	26883	0	
Aroclor 1248	1118790	1133861	BA
Aroclor 1248	1118790	1133861	BA
Aroclor 1248	1118790	1133861	BA
Aroclor 1248	1118790	1133861	BA
Aroclor 1248	1118790	1133861	BA
Aroclor 1254	2081812	2088275	BA
Aroclor 1254	2081812	2088275	BA
Aroclor 1254	2081812	2088275	BA
Aroclor 1254	2081812	2088275	BA
Aroclor 1254	2081812	2088275	BA
Aroclor 1260	4147371	0	BA
Aroclor 1260	4147371	0	BA
Aroclor 1260	4147371	0	BA
Aroclor 1260	4147371	0	BA
Aroclor 1260	4147371	0	BA
Tetrachloro-m-xylene	3226348	3226348	
Decachlorobiphenyl	3488045	3488045	

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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.: 40157698

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.: 40157698

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.: 40157698

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.

05/16/2018 8:28

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157698

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.: 40157698

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.: 40157698

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.: 40157698

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.

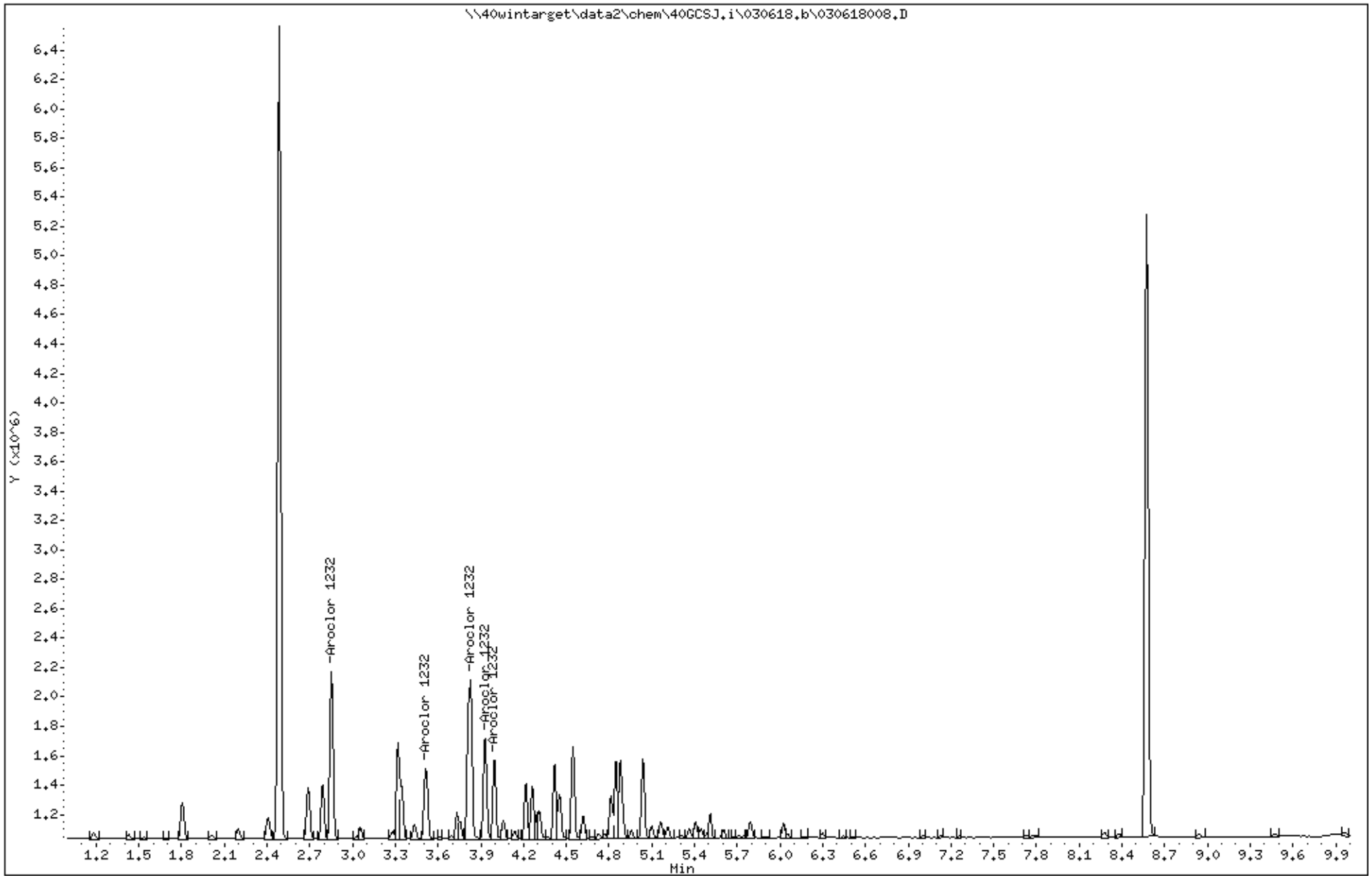
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Date : 06-MAR-2018 11:50
Client ID: 1232-CAL3S
Sample Info: 1232-CAL3S, 185539:1

Column phase: ZB-1ms

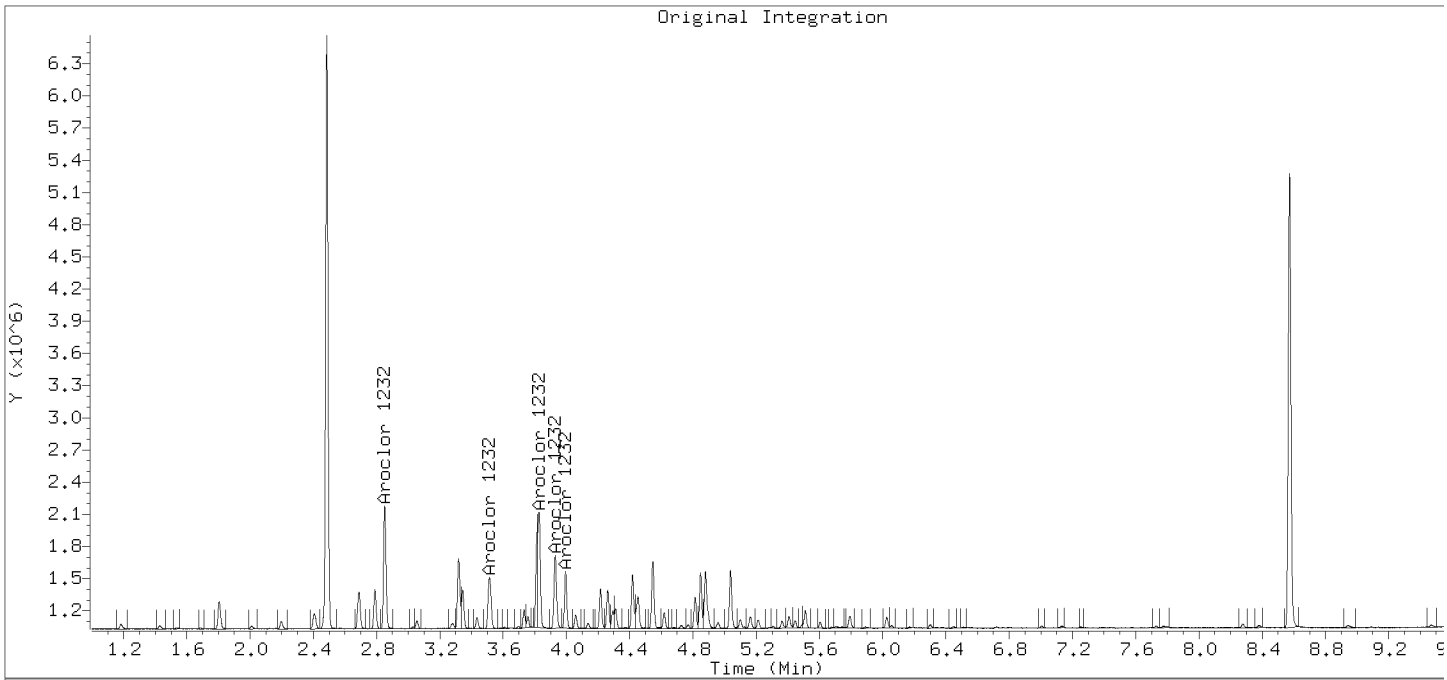
Instrument: 40GCSJ.i

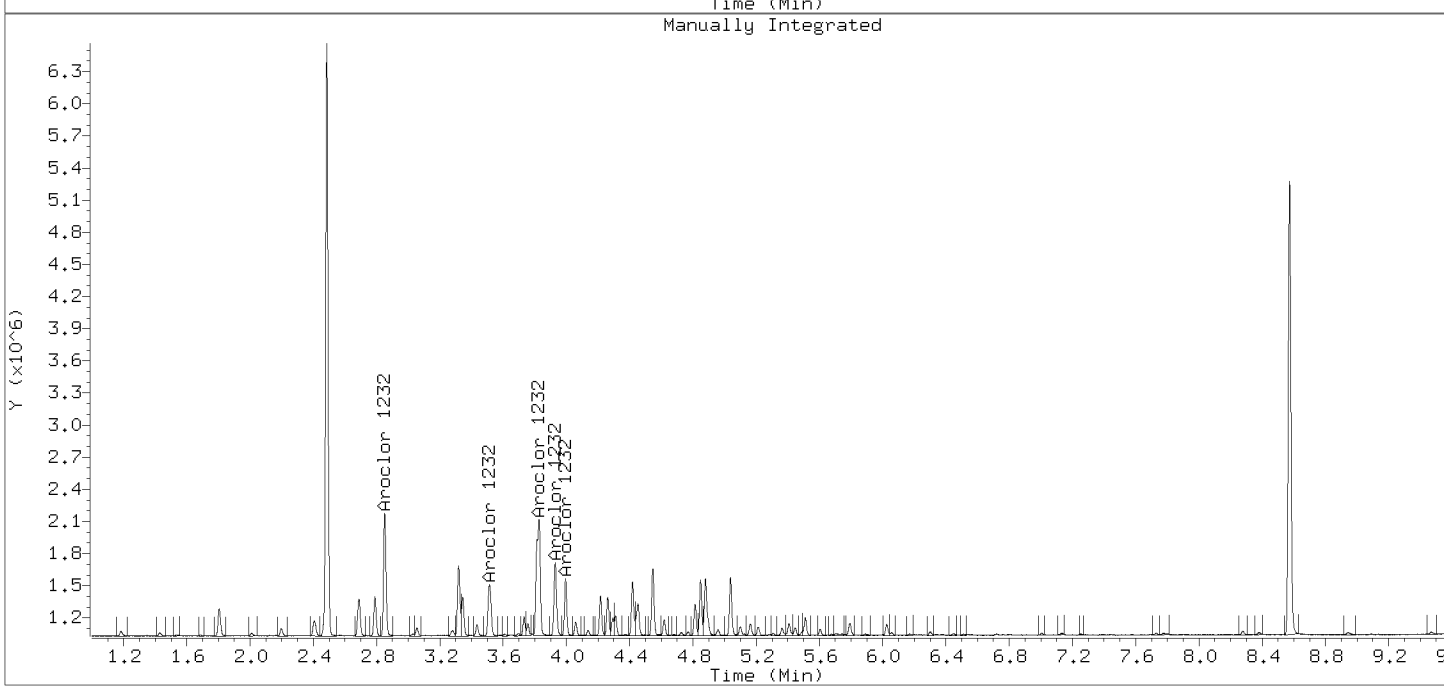
Operator: BLM

Column diameter: 0.18



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





Manually Integrated Compounds

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

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: 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

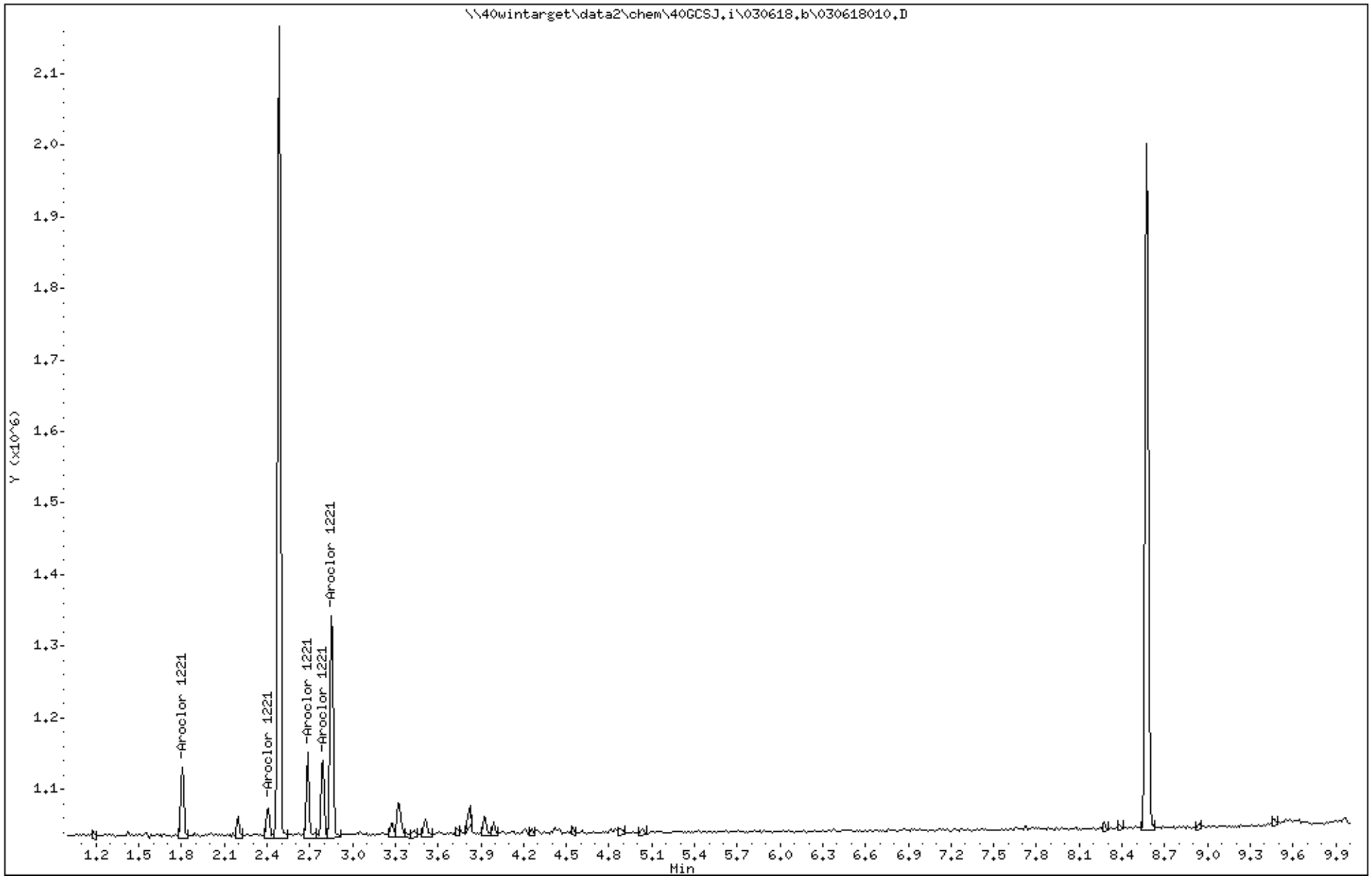
M - Compound response manually integrated.

Review Codes Legend

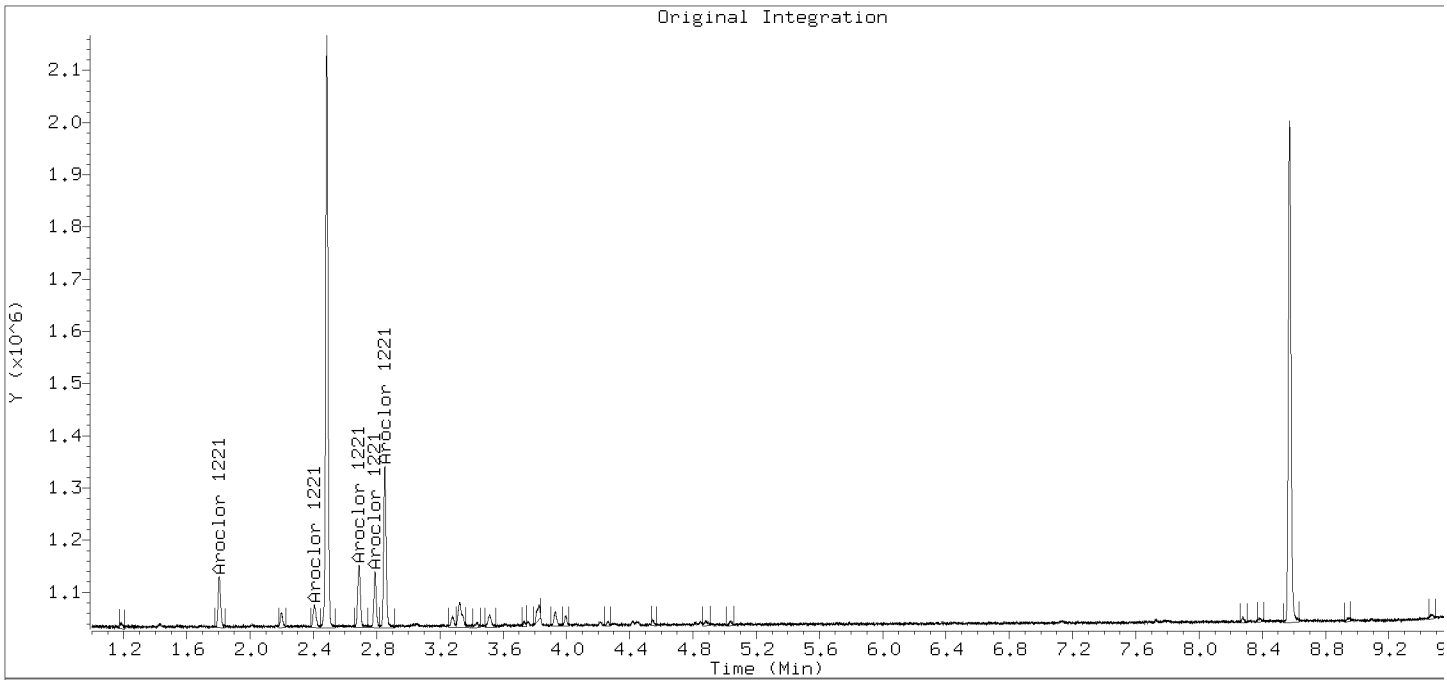
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

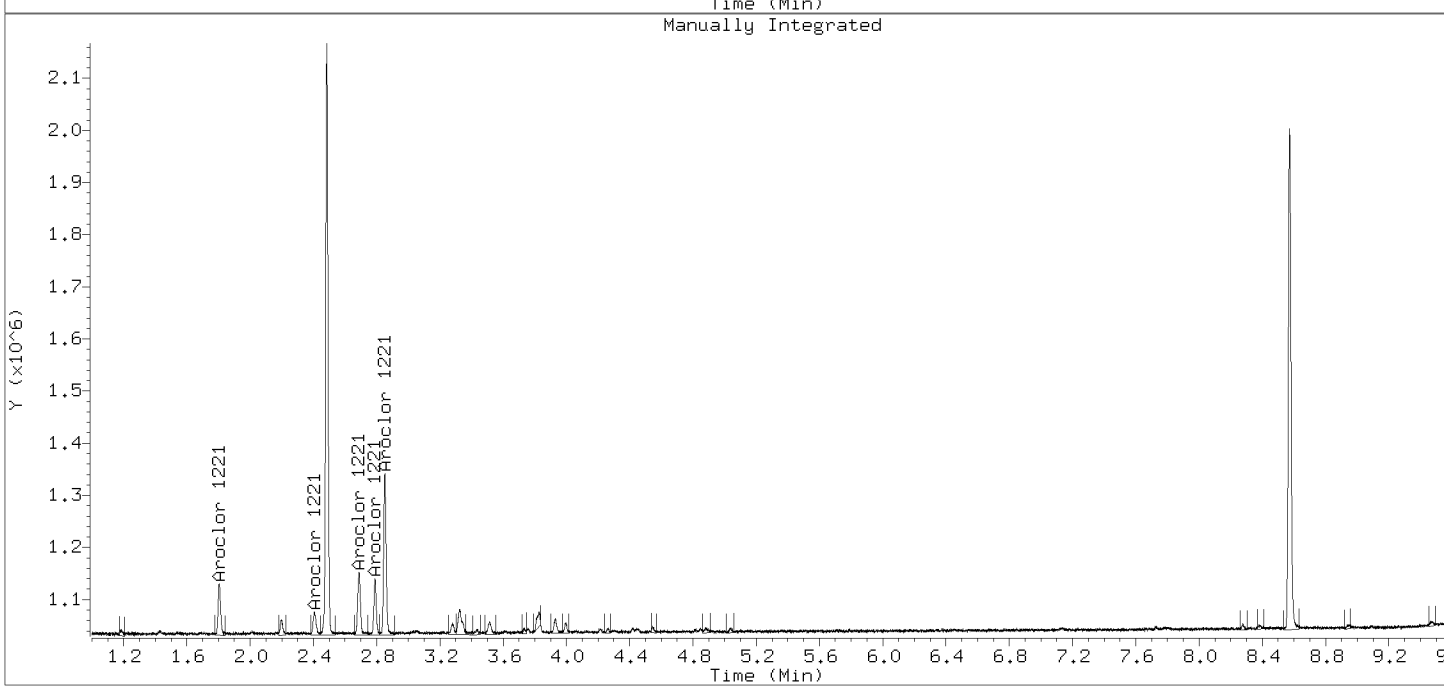
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

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

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: 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

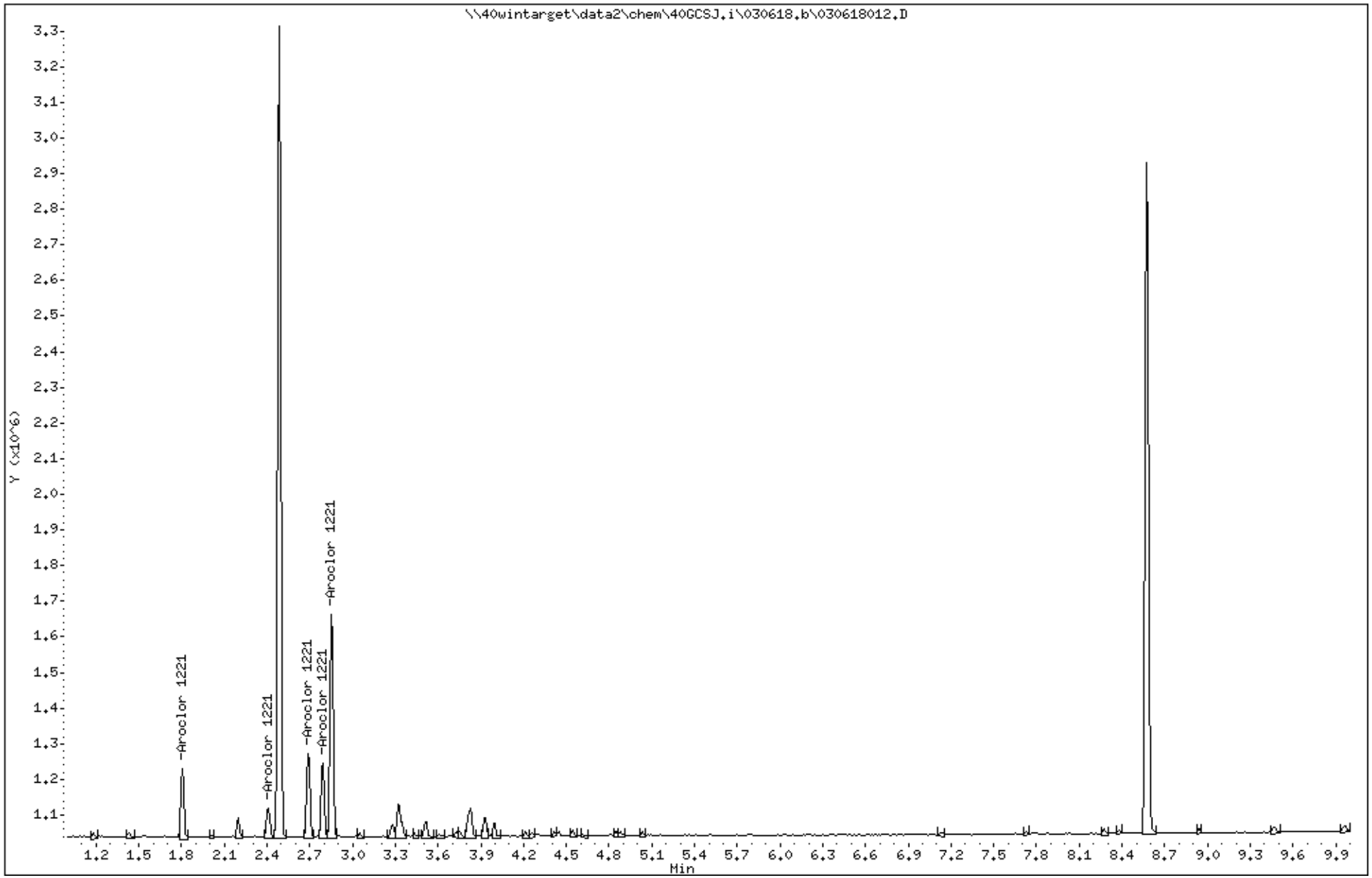
M - Compound response manually integrated.

Review Codes Legend

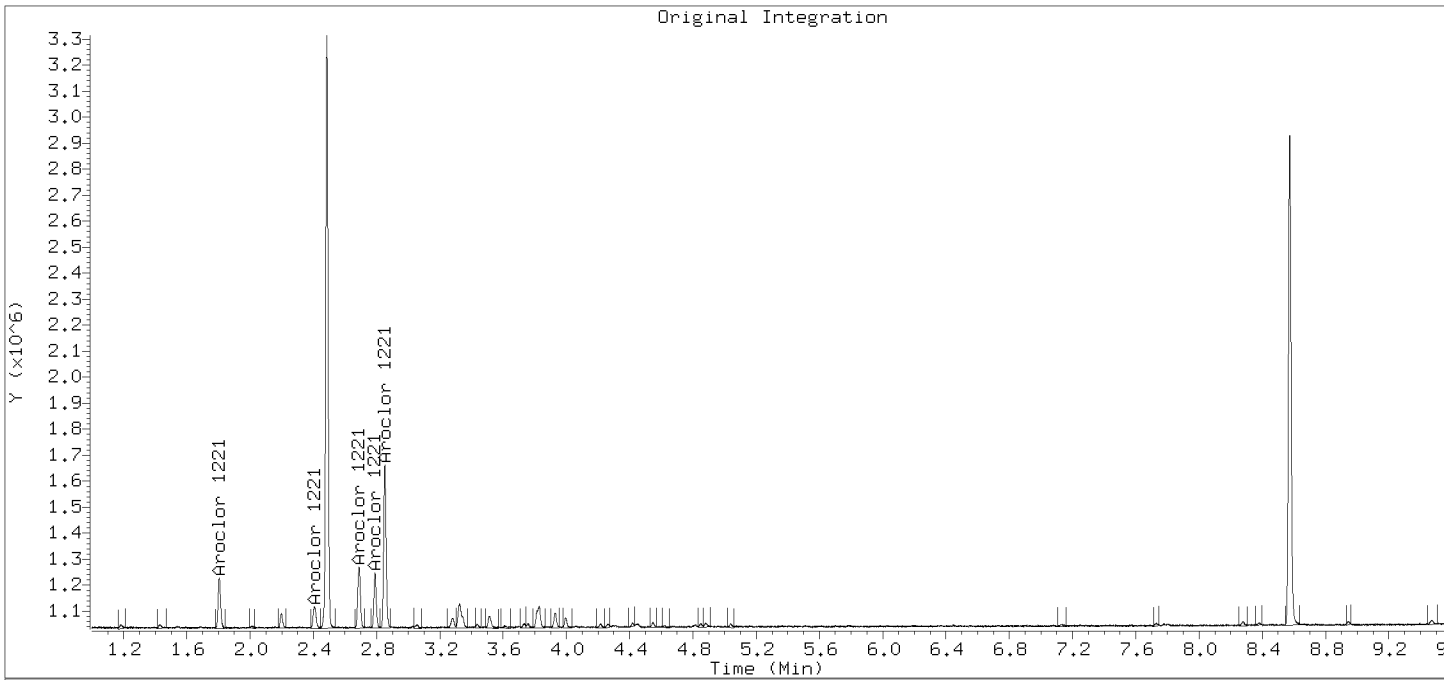
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

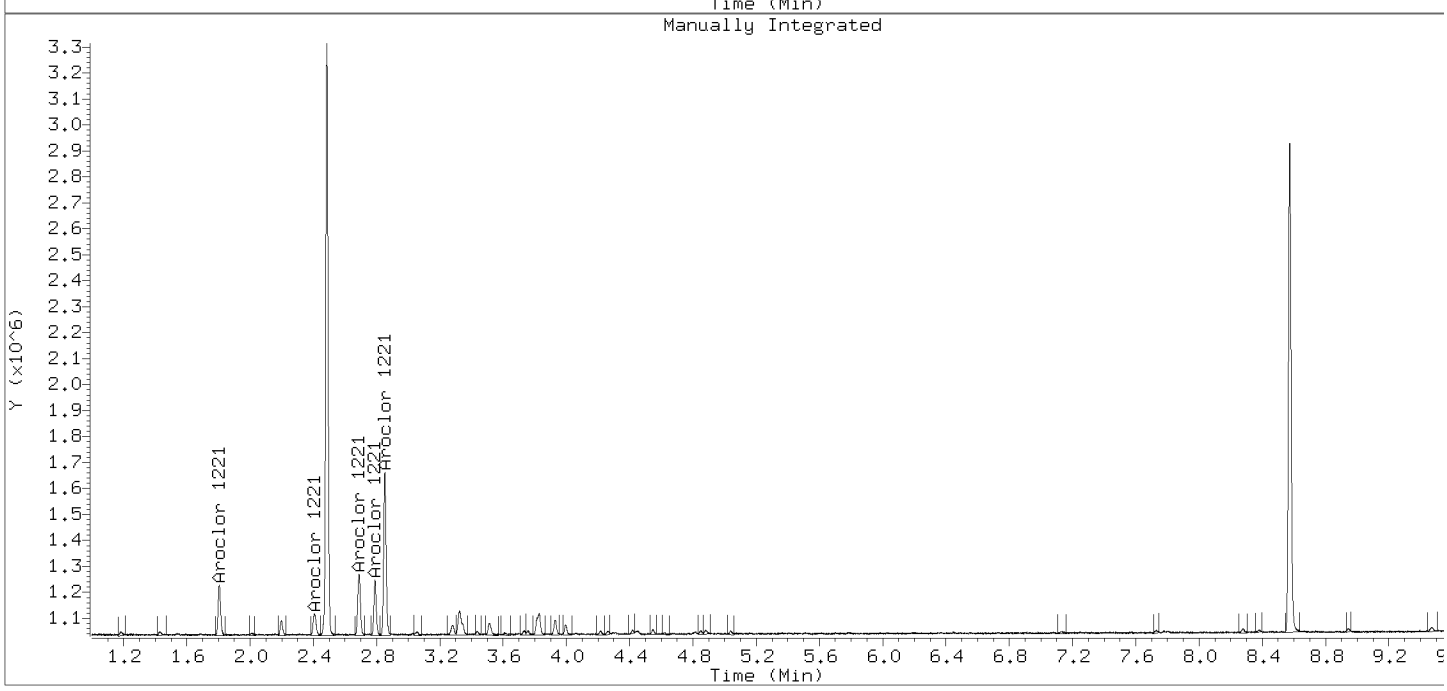
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Date : 06-MAR-2018 12:23
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Lab Smp Id: 1221-CAL3F Client Smp ID: 1221-CAL3F
Inj Date : 06-MAR-2018 12:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal3f, 185538:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	490239	0.50000	0.47	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	263311	0.50000	0.48	0.00- 20.00	53.71	BA
2.688	2.688	0.000	658123	0.50000	0.48	0.00- 20.00	134.25	BA
2.790	2.789	0.001	519263	0.50000	0.47	0.00- 20.00	105.92	BA
2.851	2.851	0.000	1583519	0.50000	0.49	0.00- 20.00	323.01	BA
Average of Peak Amounts =					0.47800			

QC Flag Legend

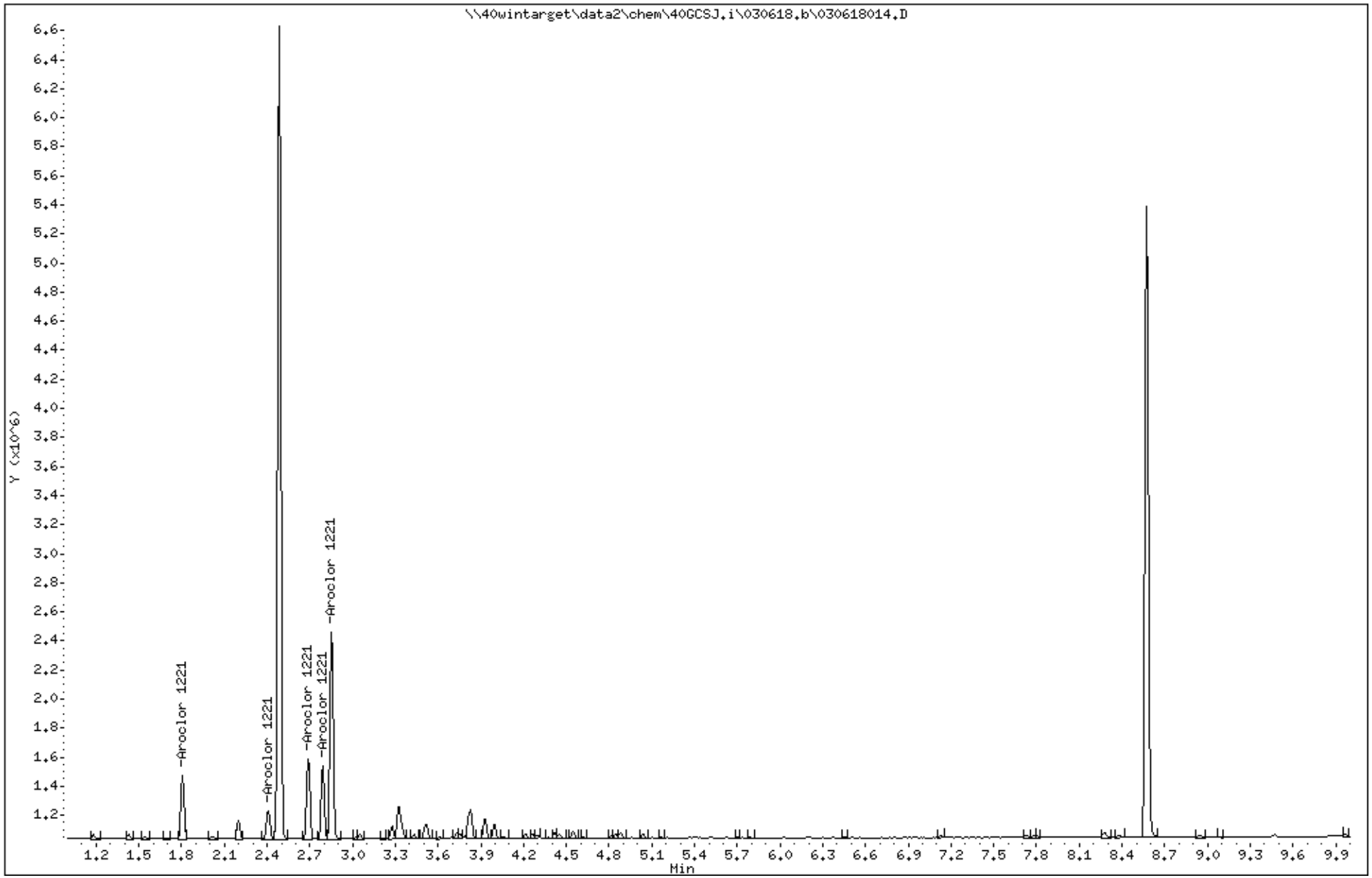
M - Compound response manually integrated.

Review Codes Legend

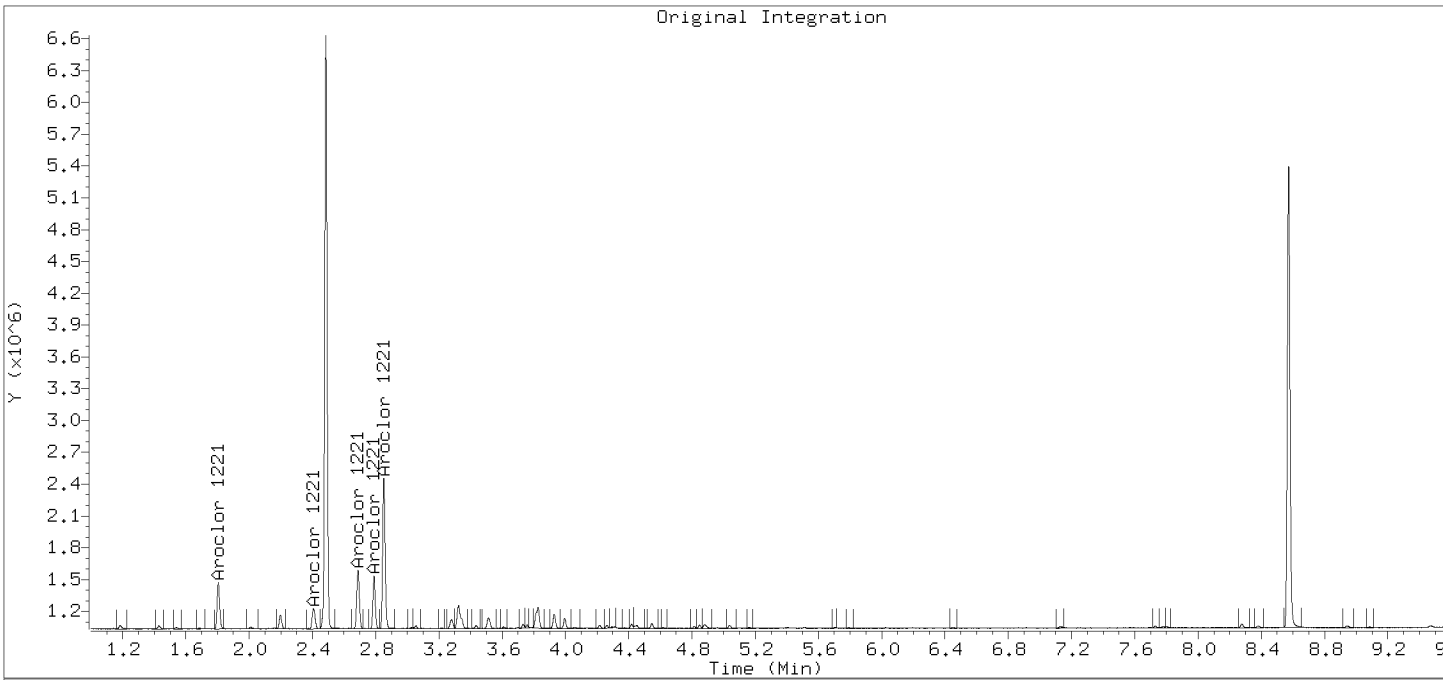
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

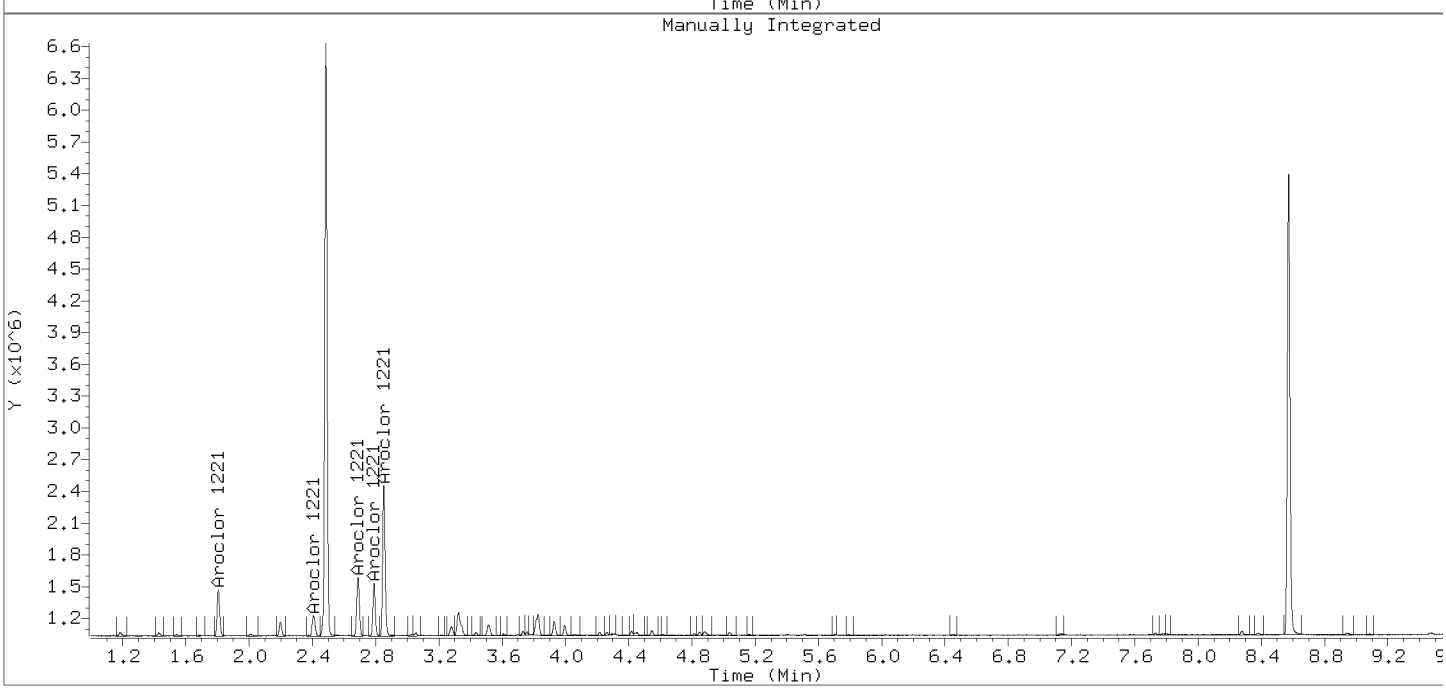
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Lab Smp Id: 1221-CAL4F Client Smp ID: 1221-CAL4F
Inj Date : 06-MAR-2018 12:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:55 Cal File: 030618016.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	15077	12970	0.860	0.04		
1.430	62013	58411	0.942	0.20		
1.540	29523	27434	0.929	0.09		
1.682	10134	8214	0.811	0.03		
1.804	785551	700381	0.892	2.59	1 Aroclor 1221	BA
2.162	17608	16089	0.914	0.05		
2.197	232212	214361	0.923	0.76		
2.408	409142	300406	0.734	1.35	1 Aroclor 1221	BA
2.485	11502194	11125302	0.967	38.28		
2.689	1067134	893347	0.837	3.52	1 Aroclor 1221	BA
2.789	853931	817692	0.958	2.82	1 Aroclor 1221	BA
2.851	2470730	2197877	0.890	8.16	1 Aroclor 1221	BA
3.053	58135	49830	0.857	0.19		
3.280	178171	134368	0.754	0.58		
3.325	581244	339314	0.584	1.92		
3.436	58621	50800	0.867	0.19		
3.513	227025	162531	0.716	0.75		
3.611	30500	29323	0.961	0.10		
3.696	15508	16983	1.095	0.05		
3.732	59581	61761	1.037	0.19		
3.757	63343	56081	0.885	0.20		
3.827	512825	311364	0.607	1.69		
3.929	244641	209892	0.858	0.80		
3.995	150703	143674	0.953	0.49		
4.059	21801	19537	0.896	0.07		
4.134	11088	10051	0.906	0.03		
4.215	55304	52296	0.946	0.18		
4.260	51932	50173	0.966	0.17		
4.291	25327	22345	0.882	0.08		
4.311	24902	25307	1.016	0.08		
4.418	49634	53105	1.070	0.16		
4.443	38631	29989	0.776	0.12		
4.547	83853	73357	0.875	0.27		
4.617	26087	19117	0.733	0.08		
4.814	30317	32424	1.069	0.10		
4.849	51073	52237	1.023	0.16		
4.880	70316	49193	0.700	0.23		

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Lab Smp Id: 1221-CAL4F Client Smp ID: 1221-CAL4F
Inj Date : 06-MAR-2018 12:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:55 Cal File: 030618016.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	785550	0.80000	0.75	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	409142	0.80000	0.75	0.00- 20.00	52.08	BA
2.688	2.688	0.000	1067134	0.80000	0.77	0.00- 20.00	135.85	BA
2.789	2.789	0.000	853931	0.80000	0.77	0.00- 20.00	108.70	BA
2.851	2.851	0.000	2470729	0.80000	0.76	0.00- 20.00	314.52	BA
Average of Peak Amounts =					0.76000			

QC Flag Legend

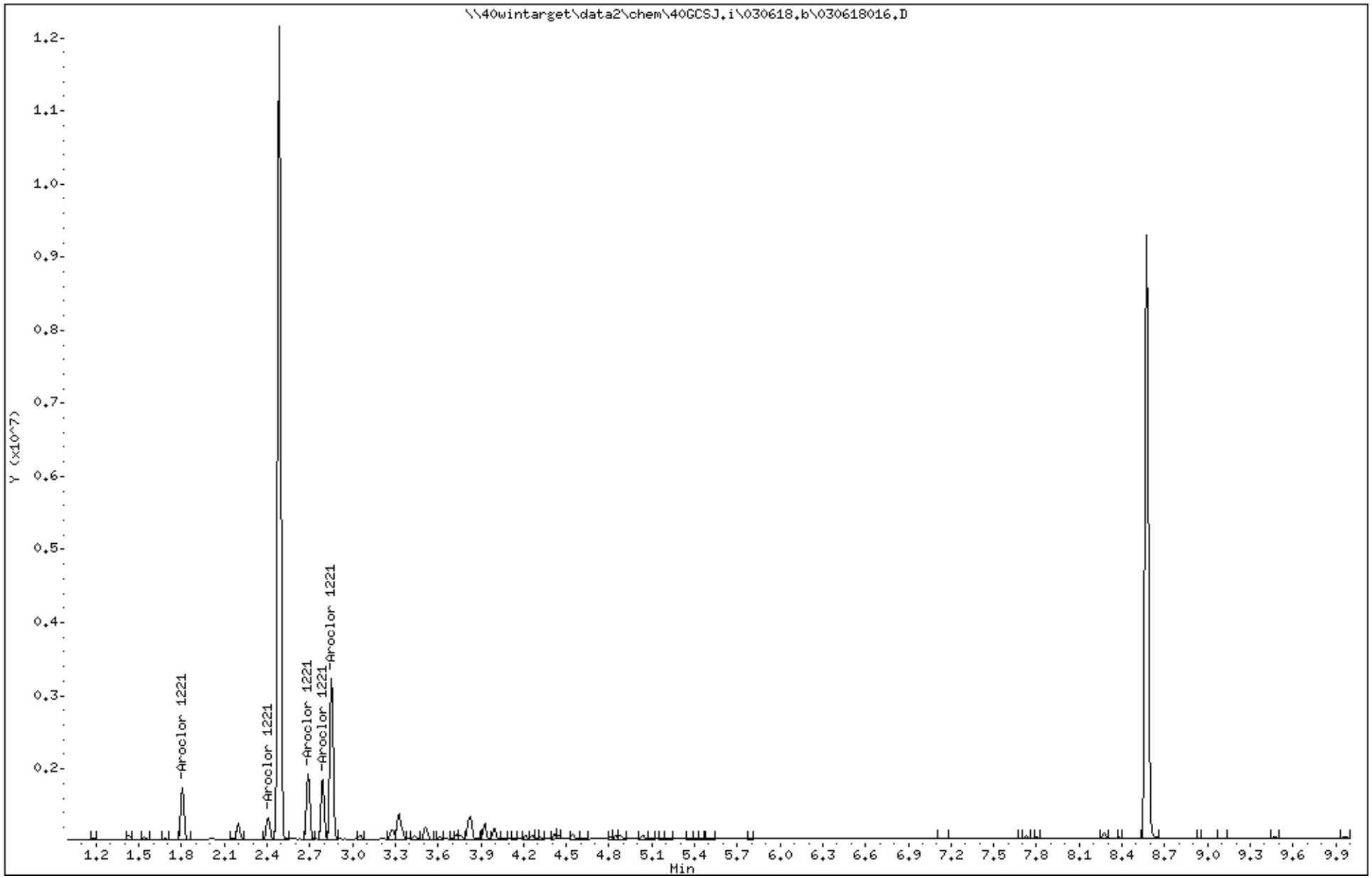
M - Compound response manually integrated.

Review Codes Legend

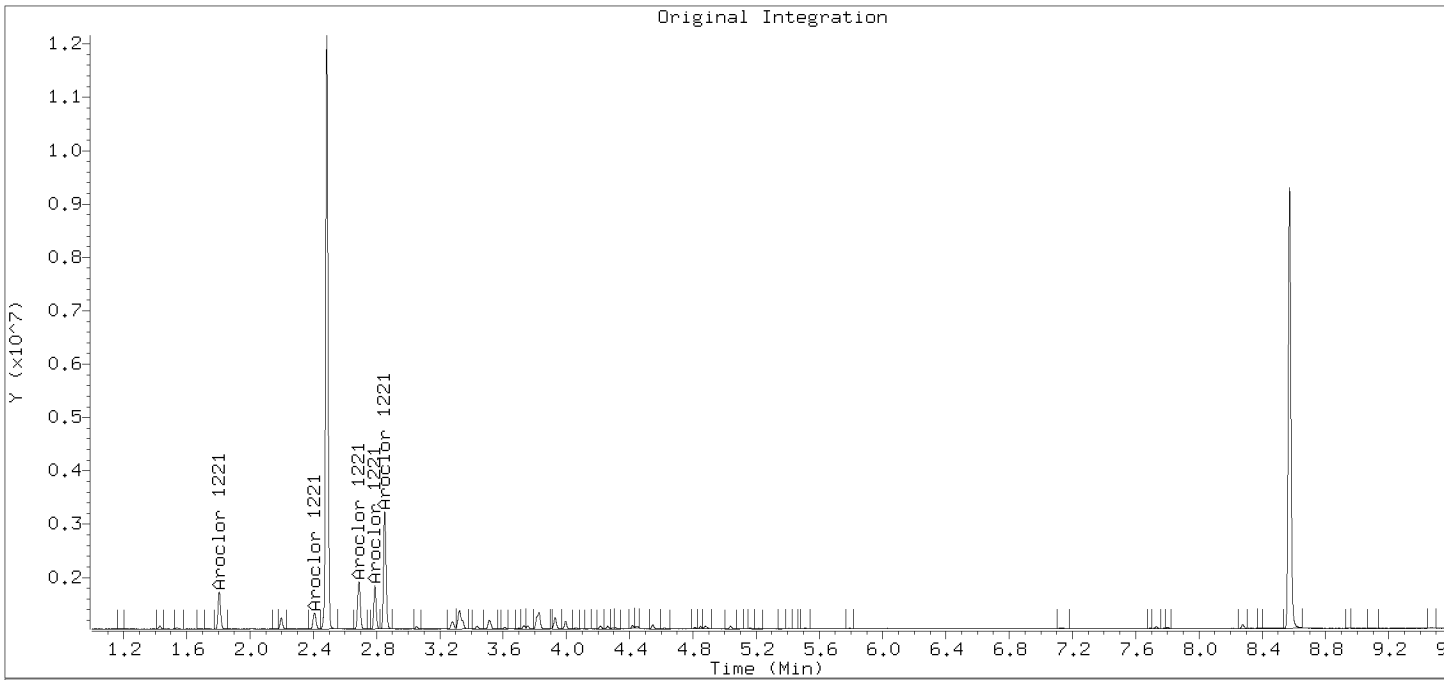
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

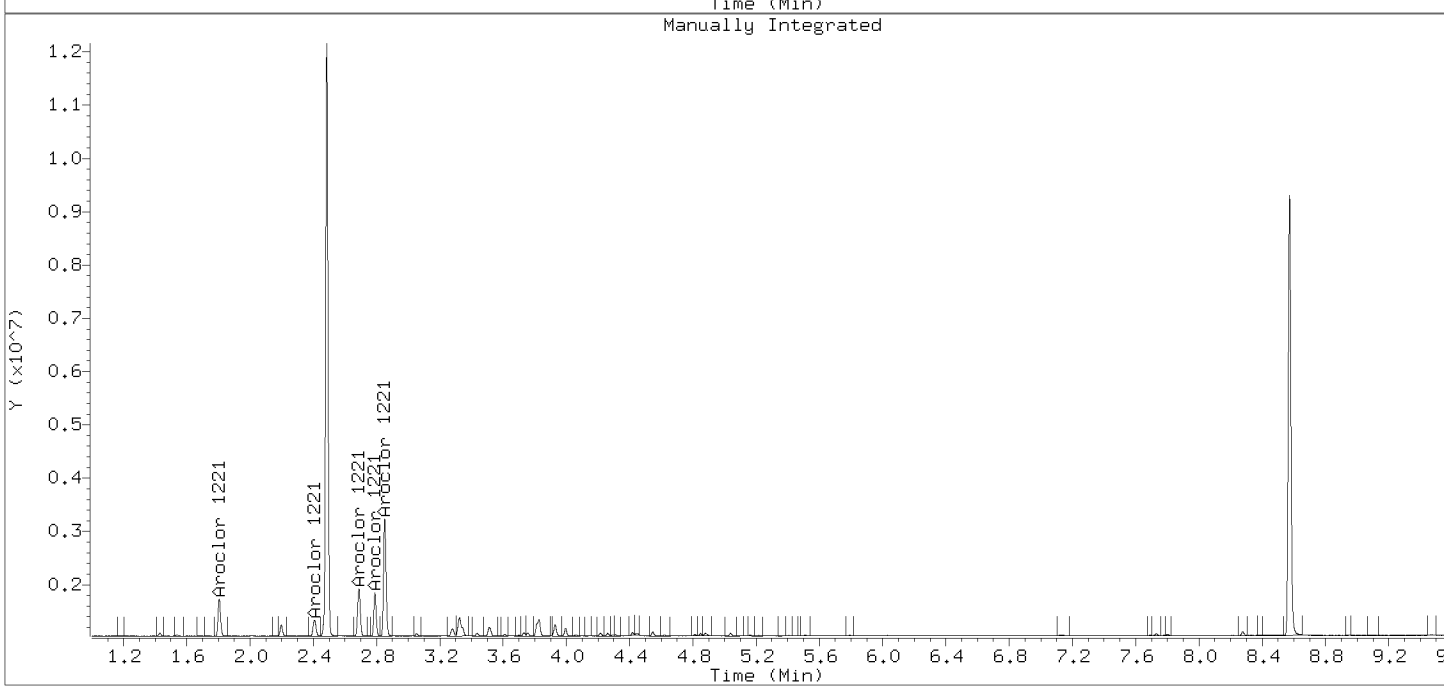
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Date : 06-MAR-2018 12:55
Client ID: 1221-CAL4F
Sample Info: 1221-CAL4F, 188140:1

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

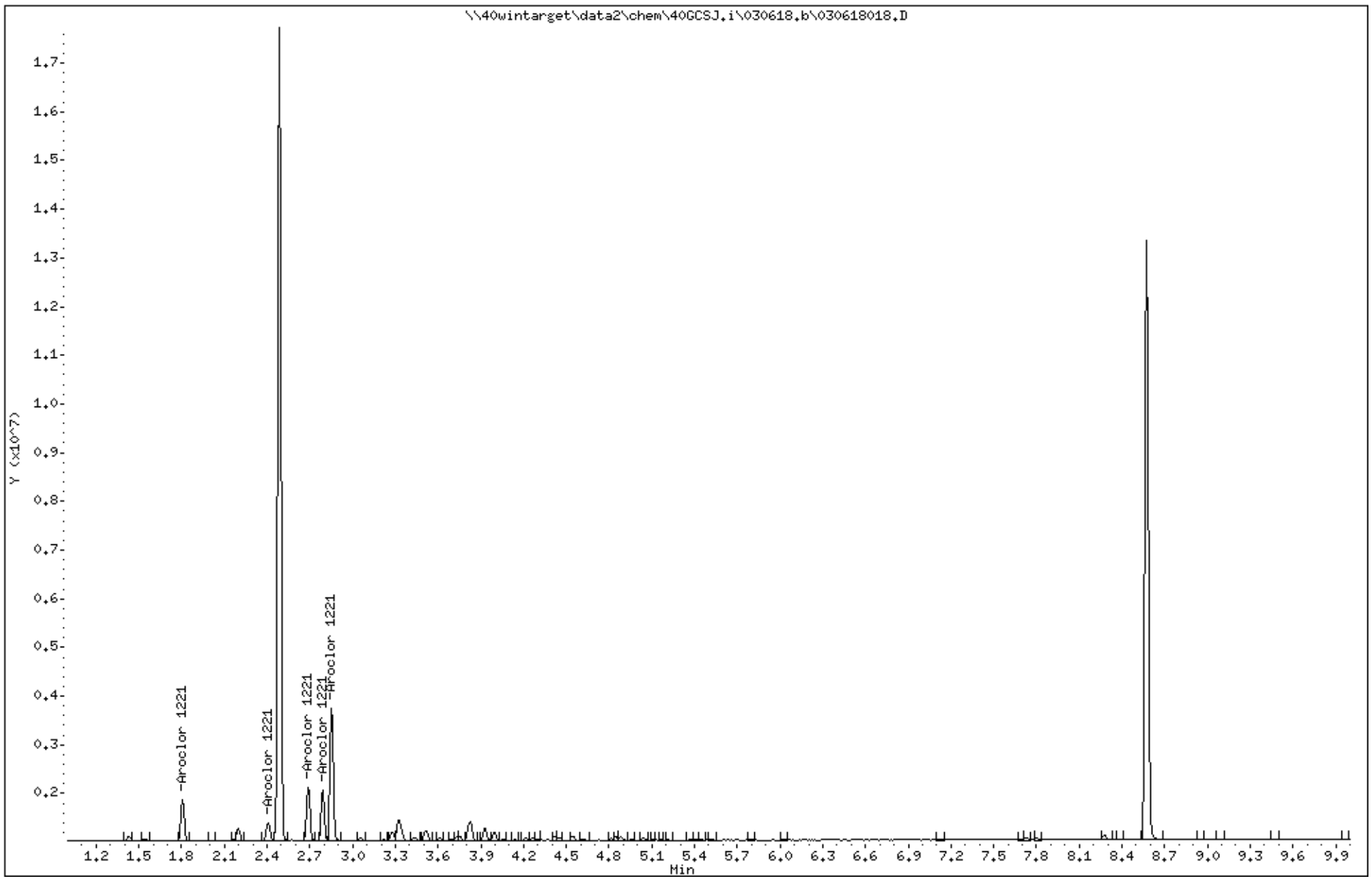
Instrument: 40GCSJ.i

Sample Info: 1221-CAL5F, 188141:1

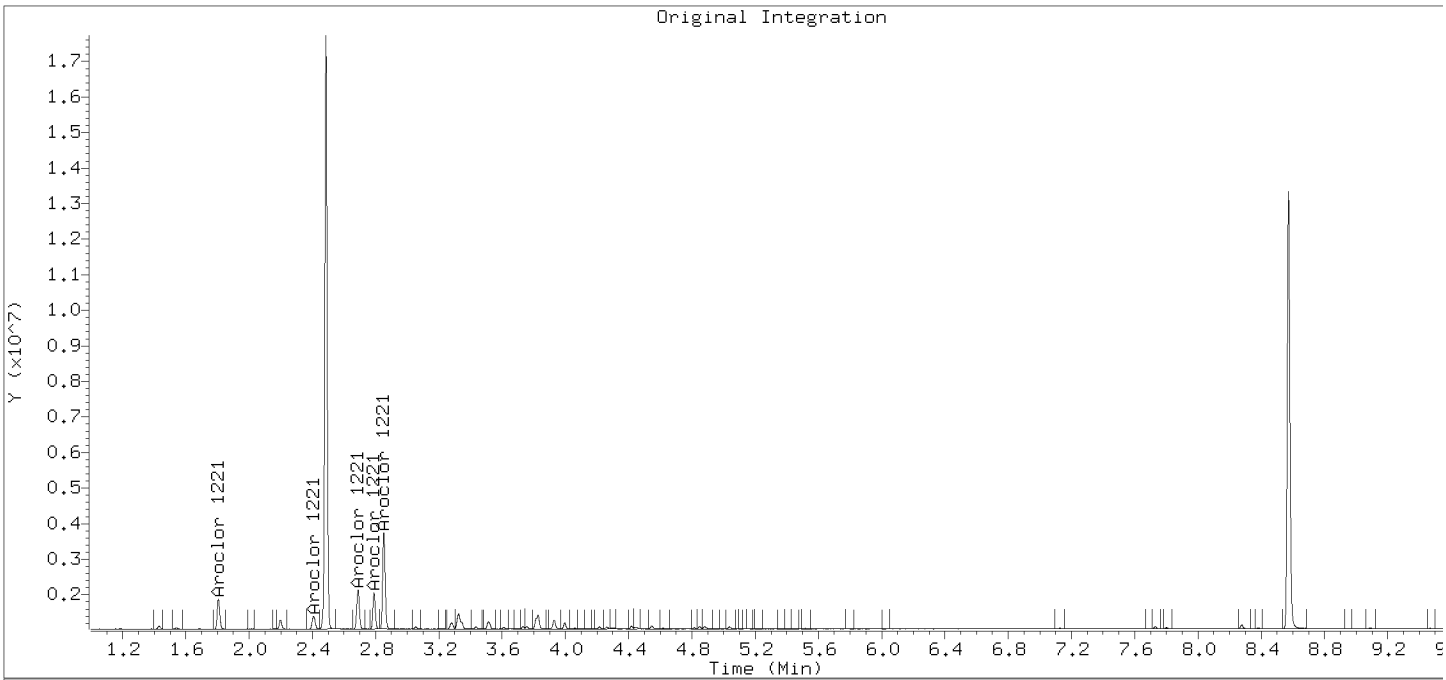
Operator: BLM

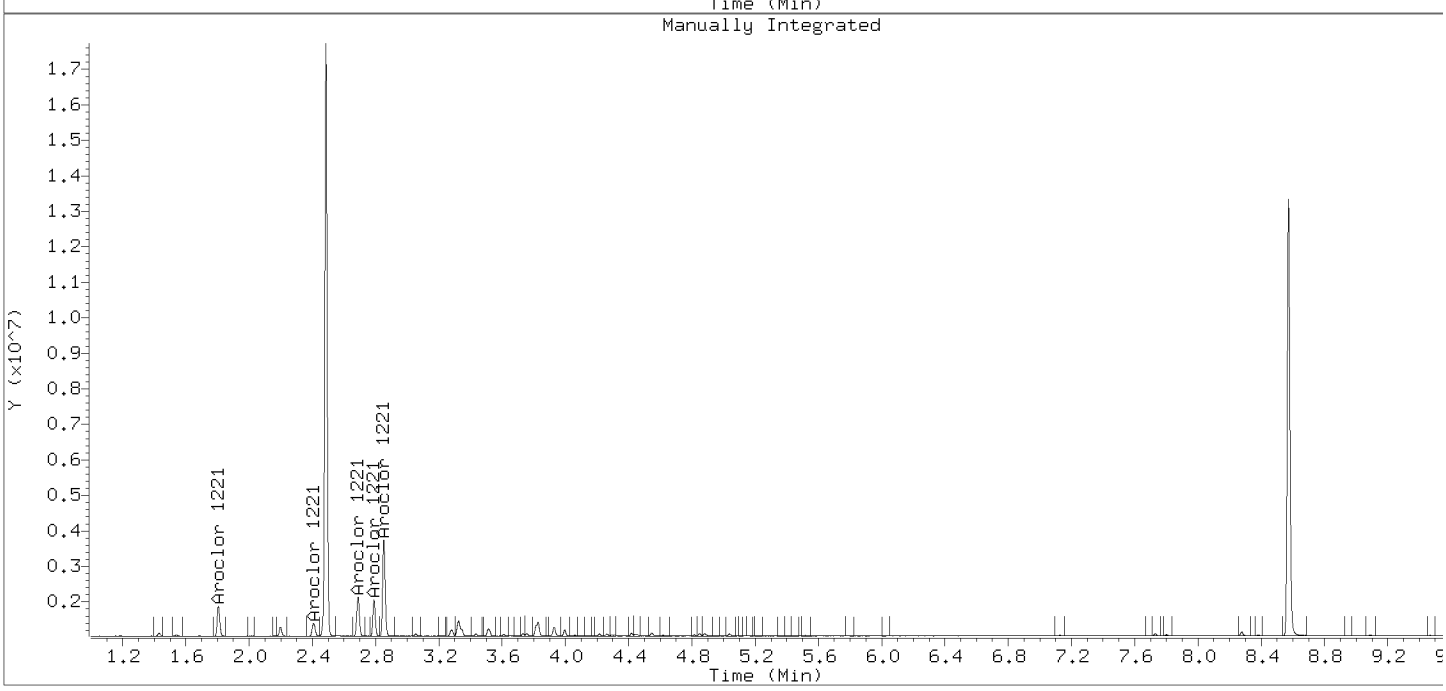
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Lab Smp Id: 1242-CAL1B Client Smp ID: 1242-CAL1B
Inj Date : 06-MAR-2018 13:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 12 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	48353	40712	0.842	0.55		
1.685	15584	12605	0.809	0.18		
2.012	33033	24593	0.745	0.38		
2.403	26701	21656	0.811	0.30		
2.485	1268339	1220330	0.962	14.93		
2.688	45903	34473	0.751	0.53		
2.791	63166	56222	0.890	0.73		
2.851	204981	187245	0.913	2.37		
3.026	22317	19810	0.888	0.25		
3.055	37376	31867	0.853	0.43		
3.318	277256	257375	0.928	3.21	3 Aroclor 1242	BA
3.345	154841	150344	0.971	1.79		
3.435	49043	39609	0.808	0.56		
3.514	273951	193620	0.707	3.17	3 Aroclor 1242	BA
3.733	69544	68947	0.991	0.80		
3.757	45882	42206	0.920	0.53		
3.827	769590	449825	0.584	8.91	3 Aroclor 1242	BA
3.929	328754	270344	0.822	3.80	3 Aroclor 1242	BA
3.996	224743	217453	0.968	2.60	3 Aroclor 1242	BA
4.059	72772	62645	0.861	0.84		
4.135	32124	25139	0.783	0.37		
4.215	184258	174093	0.945	2.13		
4.262	175232	166947	0.953	2.02		
4.295	76283	77062	1.010	0.88		
4.310	94862	88633	0.934	1.09		
4.417	242650	230875	0.951	2.80		
4.453	185260	138108	0.745	2.14		
4.547	310173	288905	0.931	3.59		
4.617	78937	69004	0.874	0.91		
4.726	21360	16230	0.760	0.24		
4.770	22579	18643	0.826	0.26		
4.813	144508	140479	0.972	1.67		
4.848	244505	231221	0.946	2.83		
4.880	333816	245294	0.735	3.86		
4.958	38640	32017	0.829	0.44		
5.039	262014	232176	0.886	3.03		
5.099	55213	47400	0.858	0.63		

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Lab Smp Id: 1242-CAL1B Client Smp ID: 1242-CAL1B
Inj Date : 06-MAR-2018 13:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 12 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	277256	0.10000	0.11	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	273950	0.10000	0.11	0.00- 20.00	98.81	BA
3.826	3.827	-0.001	769589	0.10000	0.11	0.00- 20.00	277.57	BA
3.928	3.929	-0.001	328754	0.10000	0.11	0.00- 20.00	118.57	BA
3.995	3.995	0.000	224742	0.10000	0.11	0.00- 20.00	81.06	BA
Average of Peak Amounts =					0.11000			

QC Flag Legend

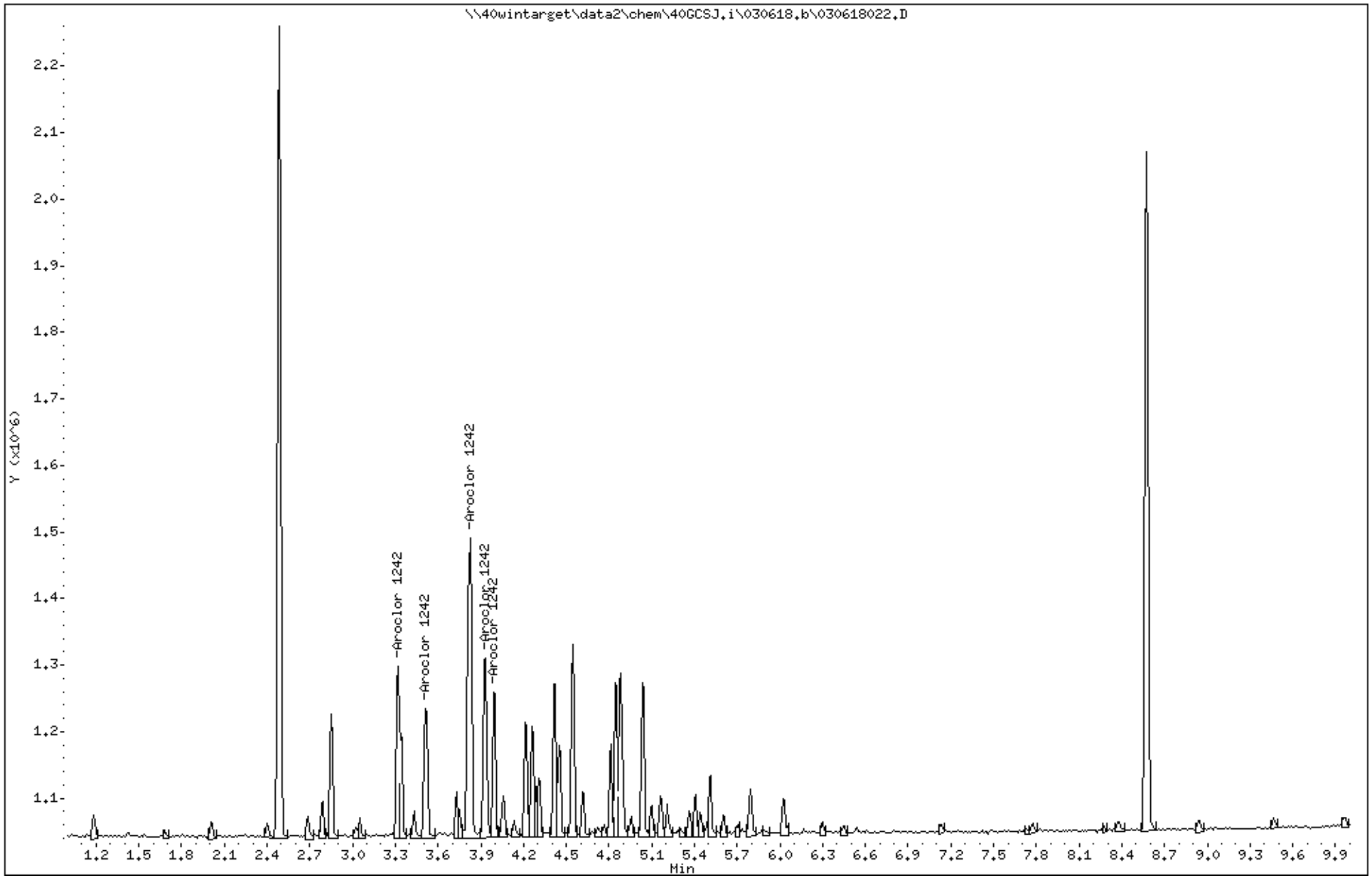
M - Compound response manually integrated.

Review Codes Legend

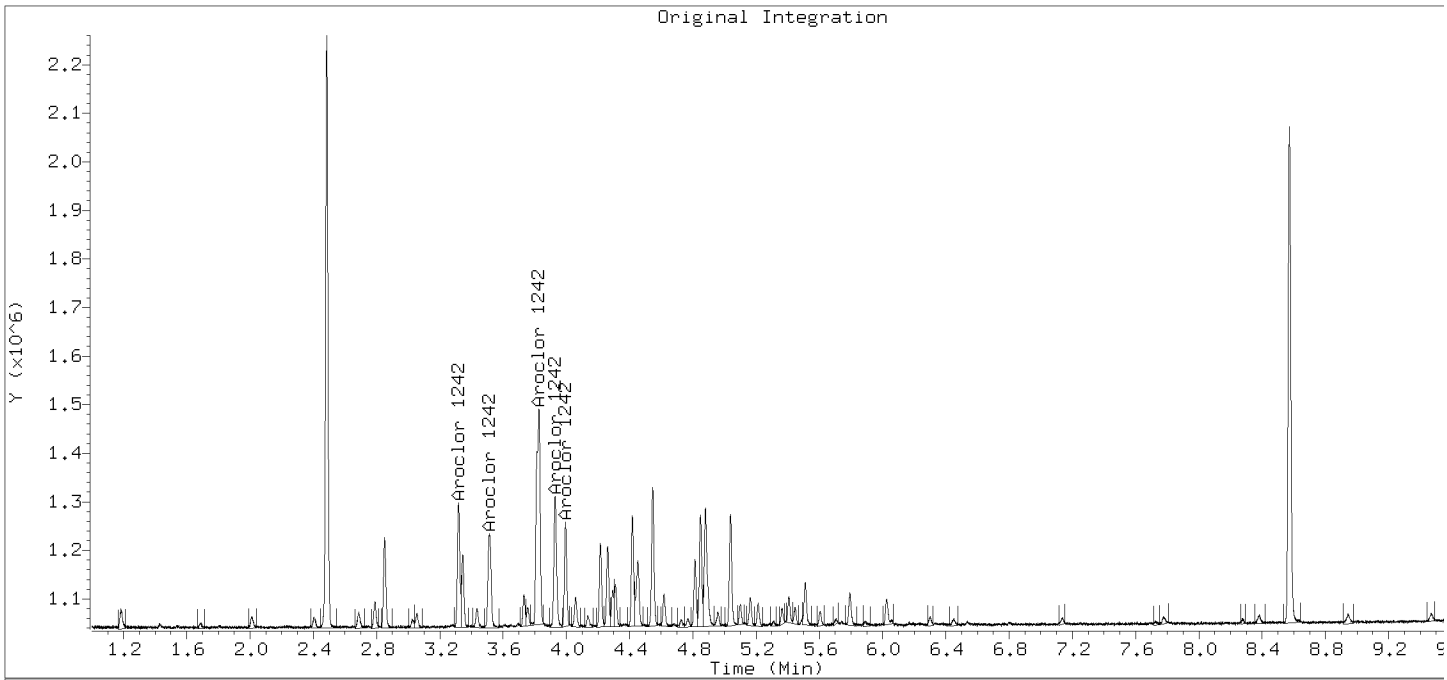
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

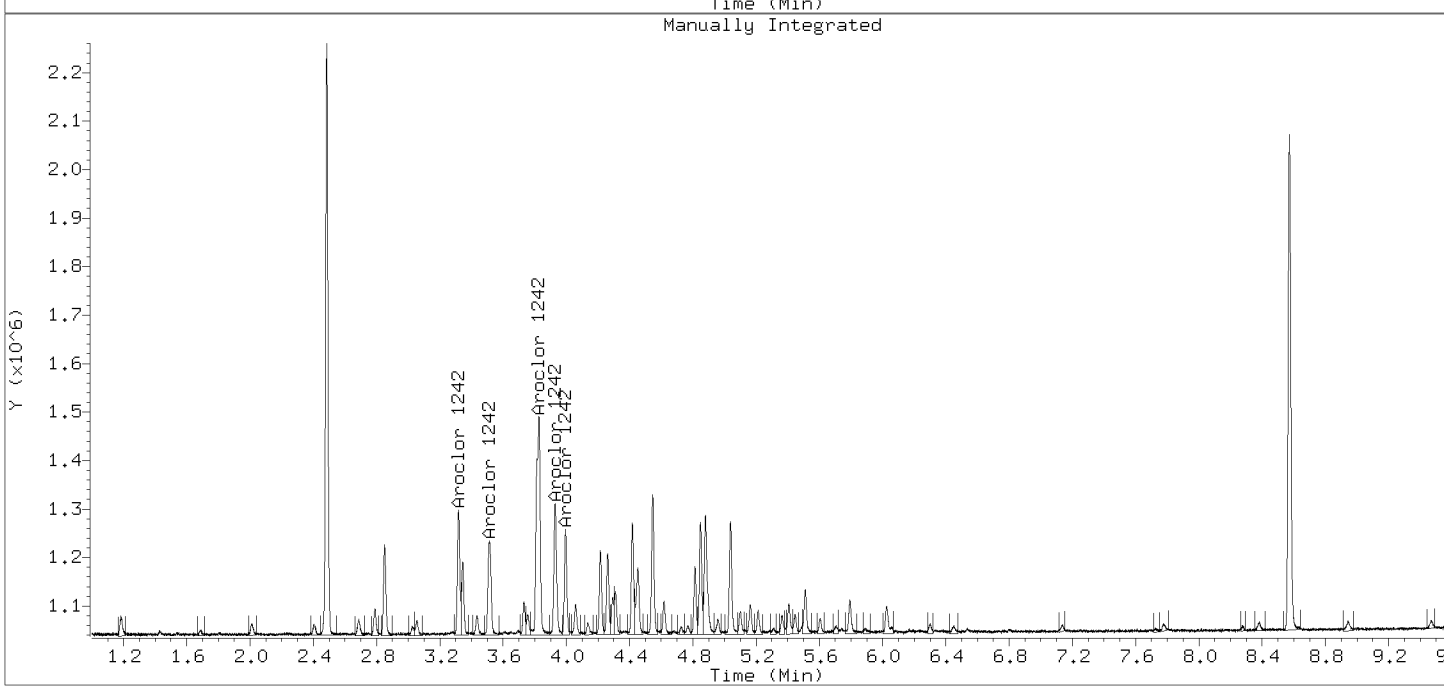
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

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

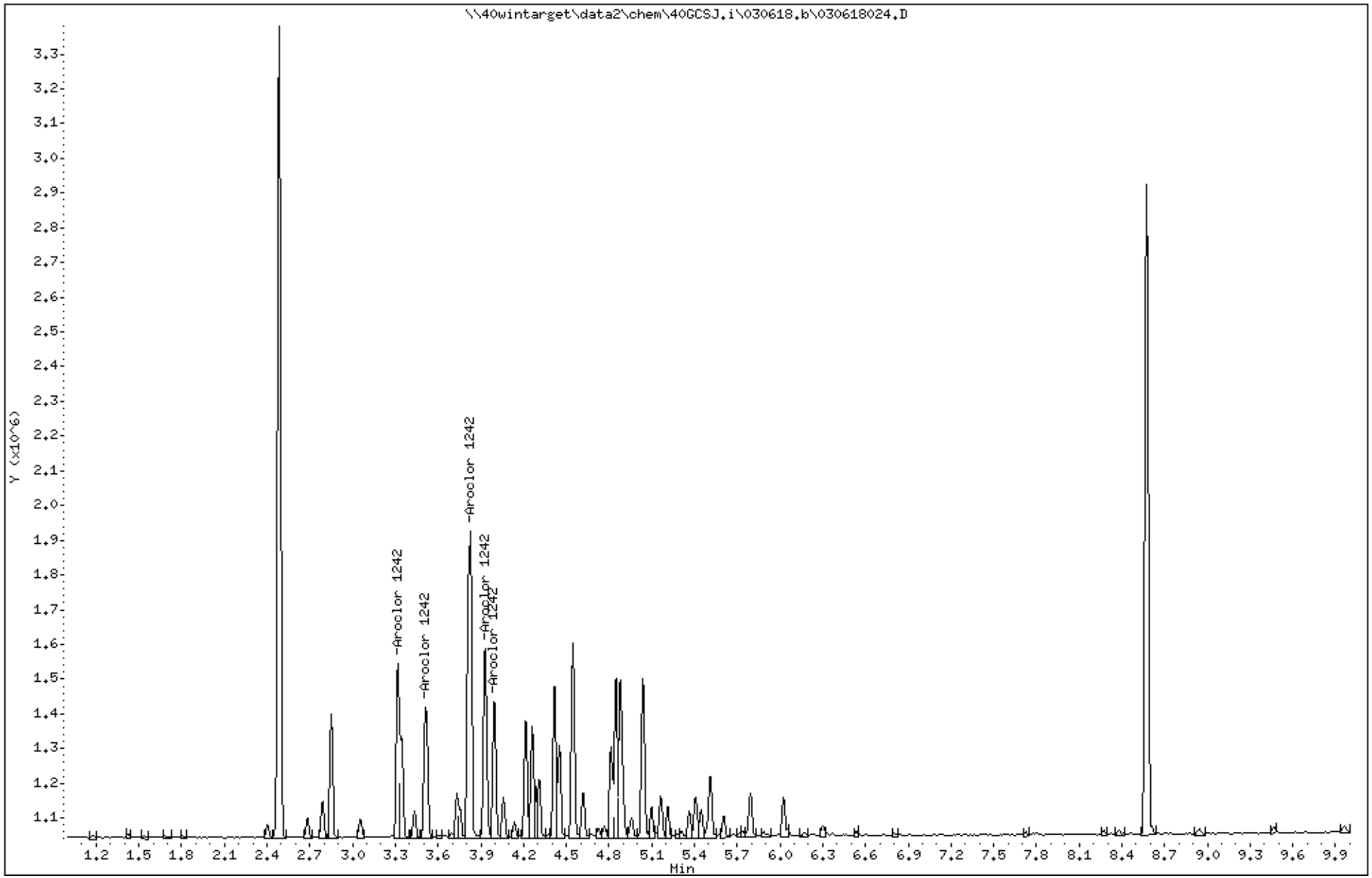
M - Compound response manually integrated.

Review Codes Legend

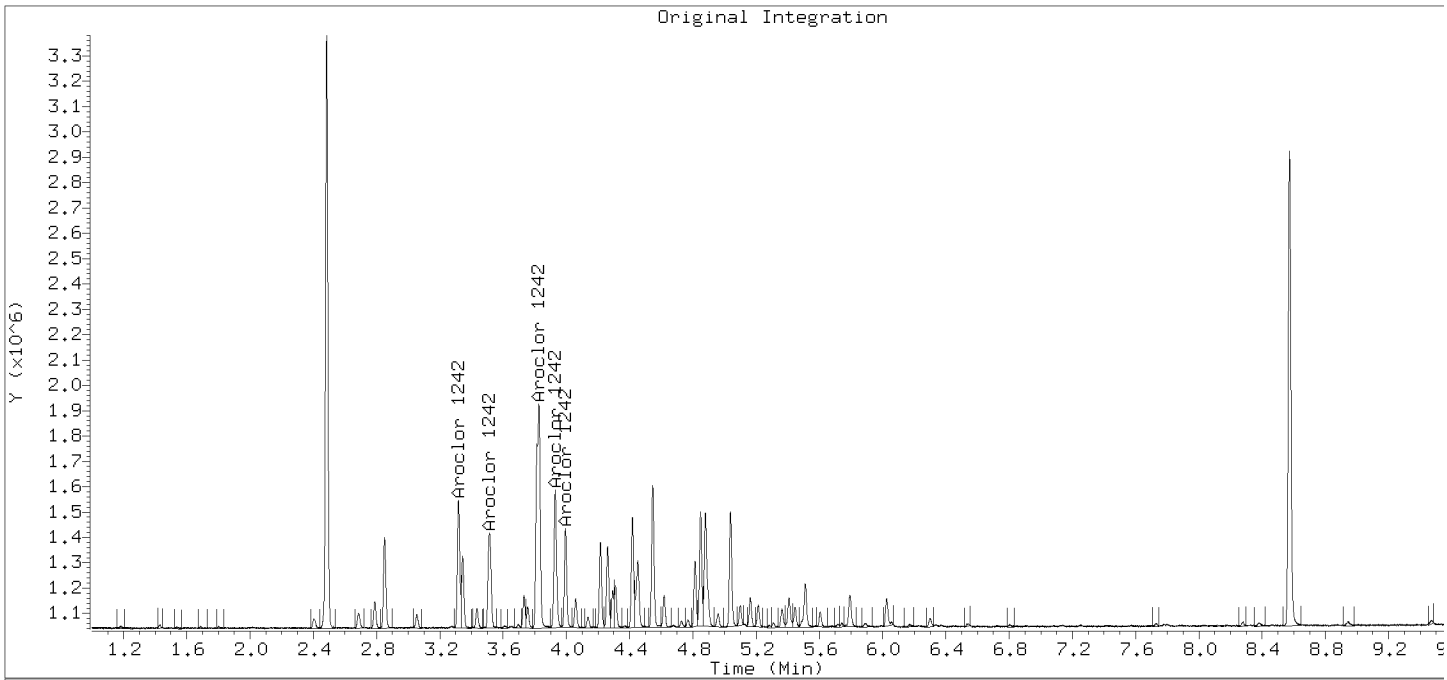
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

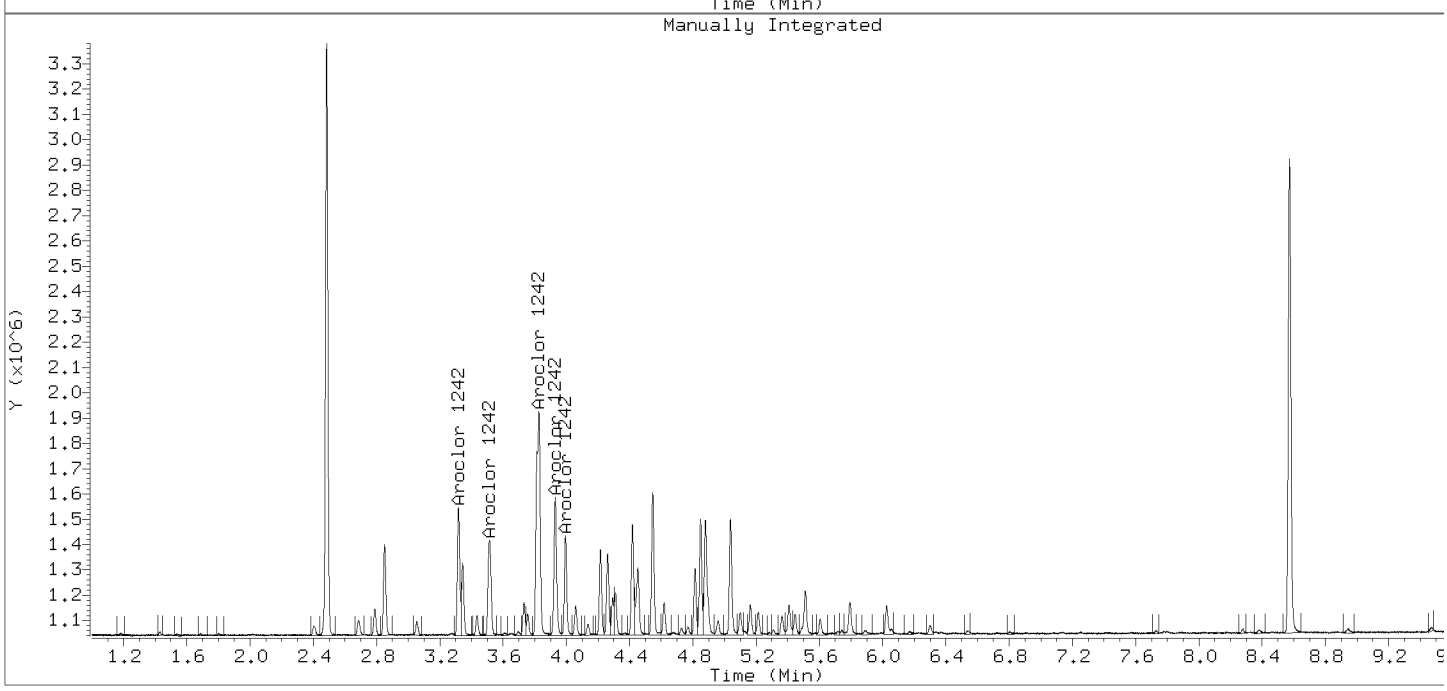
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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

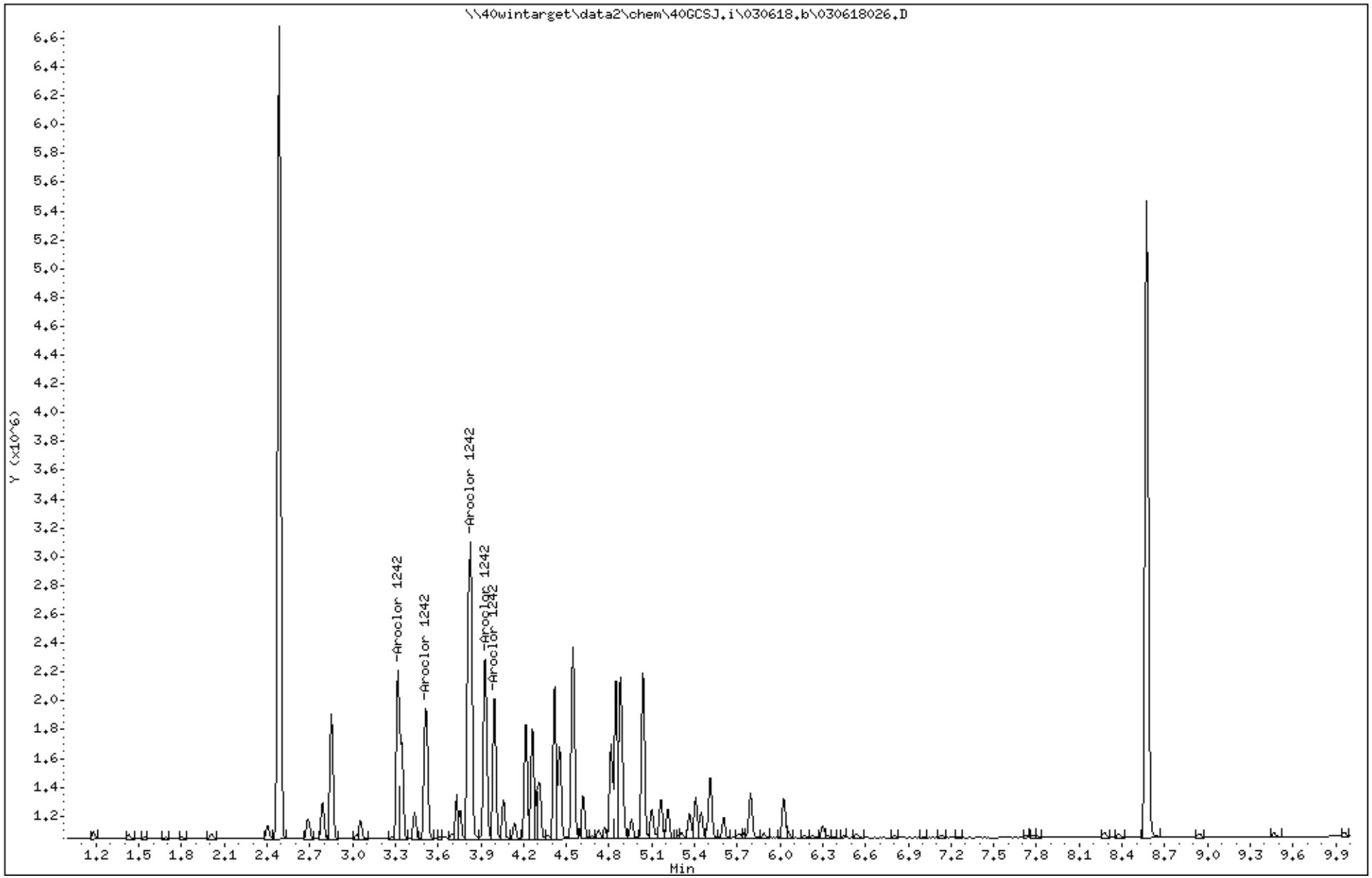
Instrument: 40GCSJ.i

Sample Info: 1242-CAL3B, 185544:1

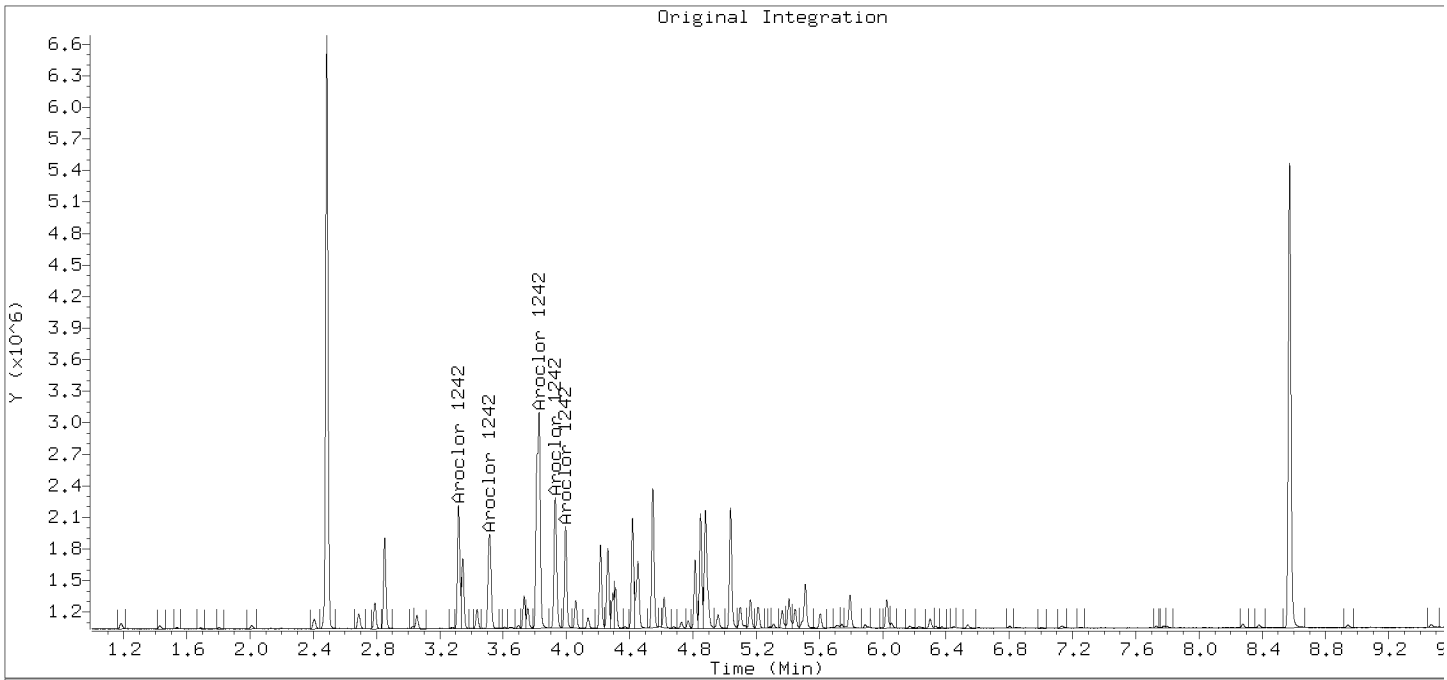
Operator: BLM

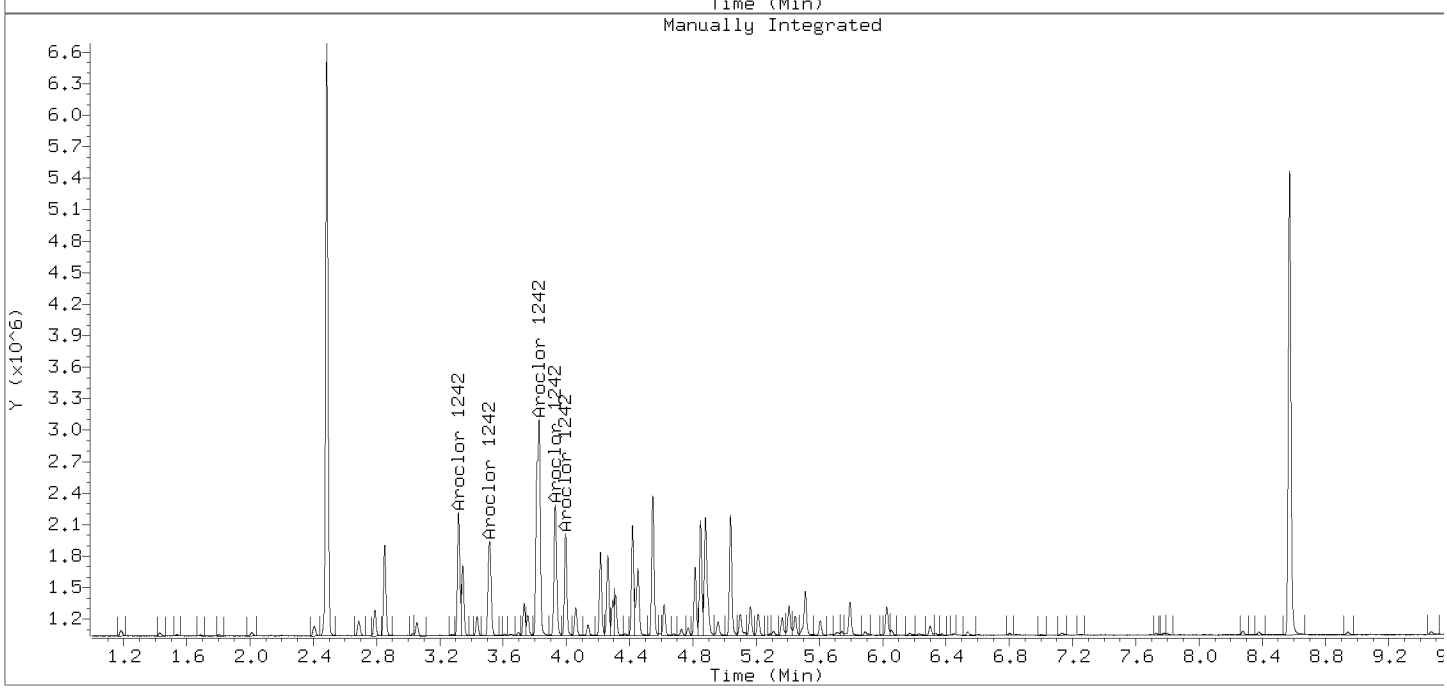
Column phase: ZB-1ms

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

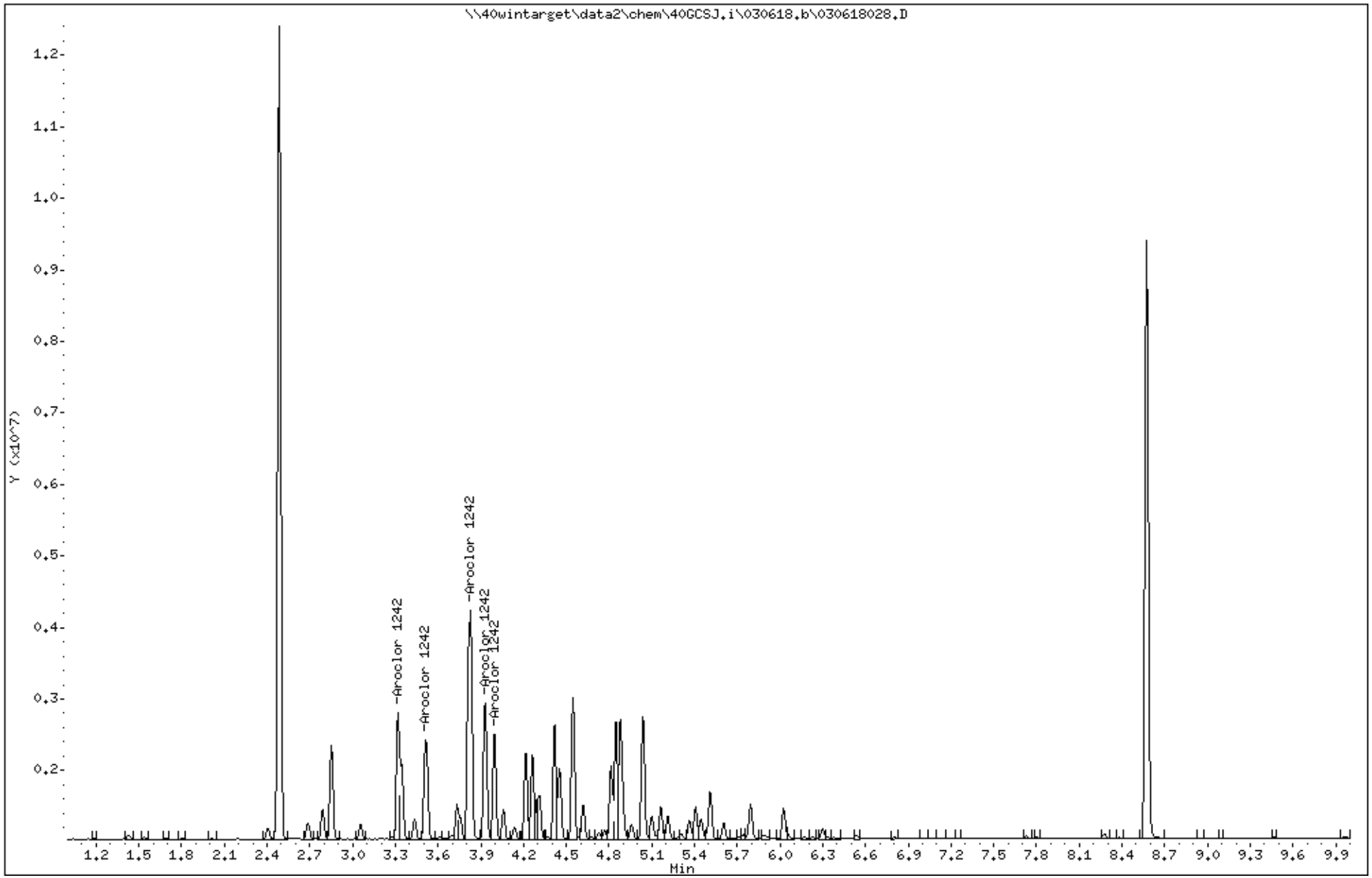
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D
Date : 06-MAR-2018 14:32
Client ID: 1242-CAL4B
Sample Info: 1242-CAL4B, 185545:1

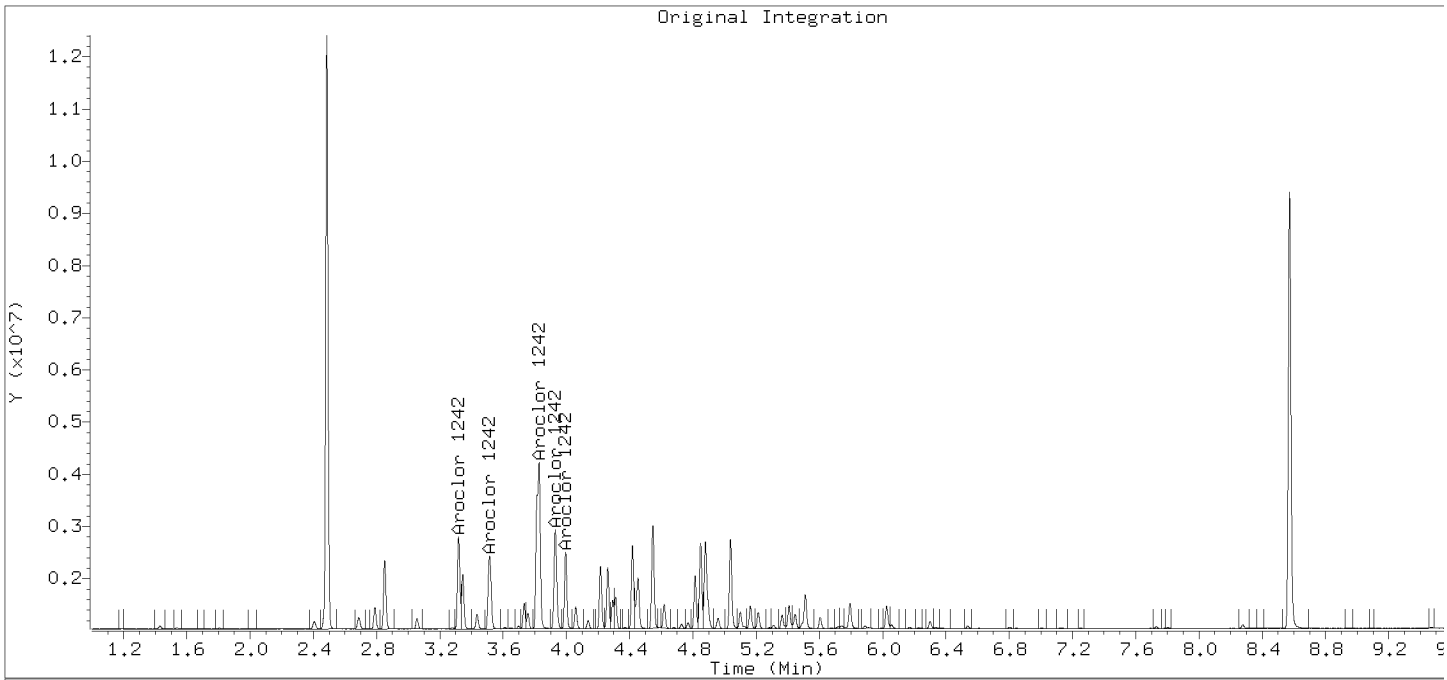
Column phase: ZB-1ms

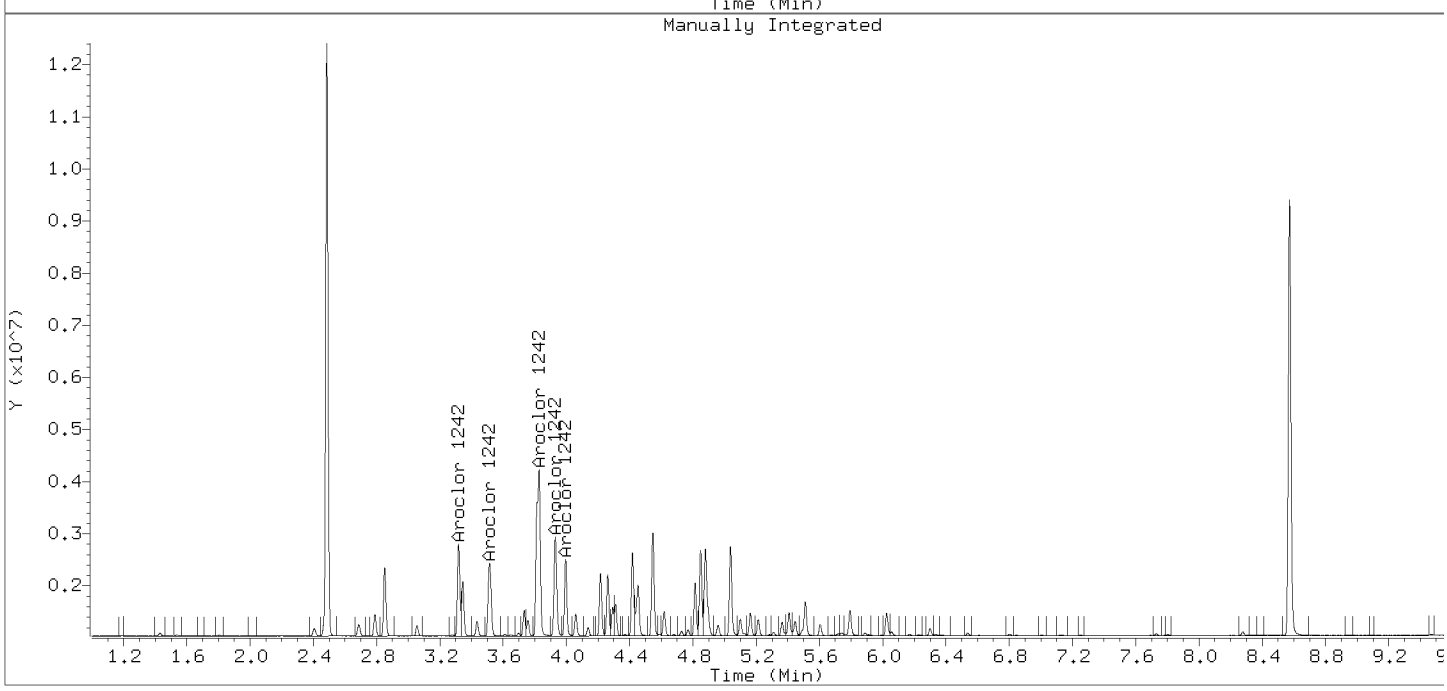
Instrument: 40GCSJ.i

Operator: BLM
Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Lab Smp Id: 1242-CAL5B Client Smp ID: 1242-CAL5B
Inj Date : 06-MAR-2018 14:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:48 Cal File: 030618030.D
Als bottle: 16 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	13142	9158	0.697	0.01		
1.429	100388	88167	0.878	0.12		
1.538	43436	37040	0.853	0.05		
1.802	27170	23817	0.877	0.03		
2.200	13193	7765	0.589	0.01		
2.404	223179	177740	0.796	0.26		
2.485	17637176	17309158	0.981	21.53		
2.687	332628	271512	0.816	0.39		
2.788	576258	556266	0.965	0.69		
2.850	1731132	1639872	0.947	2.07		
3.055	271375	257132	0.948	0.32		
3.199	9596	8183	0.853	0.01		
3.278	40145	29795	0.742	0.04		
3.318	2329240	2178022	0.935	2.79	3 Aroclor 1242	BA
3.344	1365925	1274431	0.933	1.63		
3.434	376796	349333	0.927	0.45		
3.514	2361399	1699901	0.720	2.82	3 Aroclor 1242	BA
3.611	53162	49737	0.936	0.06		
3.648	38548	26960	0.699	0.04		
3.697	65654	64327	0.980	0.07		
3.732	603958	618832	1.025	0.72		
3.756	391796	382124	0.975	0.46		
3.828	6706645	3996192	0.596	8.03	3 Aroclor 1242	BA
3.929	2857802	2355014	0.824	3.42	3 Aroclor 1242	BA
3.994	1922508	1833827	0.954	2.30	3 Aroclor 1242	BA
4.059	555199	530529	0.956	0.66		
4.136	222505	199818	0.898	0.26		
4.215	1575639	1501683	0.953	1.88		
4.261	1524934	1467406	0.962	1.82		
4.293	649073	667869	1.029	0.77		
4.311	810435	768258	0.948	0.97		
4.371	43433	37094	0.854	0.05		
4.417	2107983	1937856	0.919	2.52		
4.452	1647097	1208682	0.734	1.97		
4.546	2757523	2530813	0.918	3.30		
4.617	639793	601712	0.940	0.76		
4.681	44151	33585	0.761	0.05		

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Lab Smp Id: 1242-CAL5B Client Smp ID: 1242-CAL5B
Inj Date : 06-MAR-2018 14:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:48 Cal File: 030618030.D
Als bottle: 16 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	2329239	1.00000	0.92	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	2361398	1.00000	0.94	0.00- 20.00	101.38	BA
3.827	3.827	0.000	6706645	1.00000	0.94	0.00- 20.00	287.93	BA
3.929	3.929	0.000	2857801	1.00000	0.94	0.00- 20.00	122.69	BA
3.994	3.995	-0.001	1922507	1.00000	0.94	0.00- 20.00	82.54	BA
Average of Peak Amounts =					0.93600			

QC Flag Legend

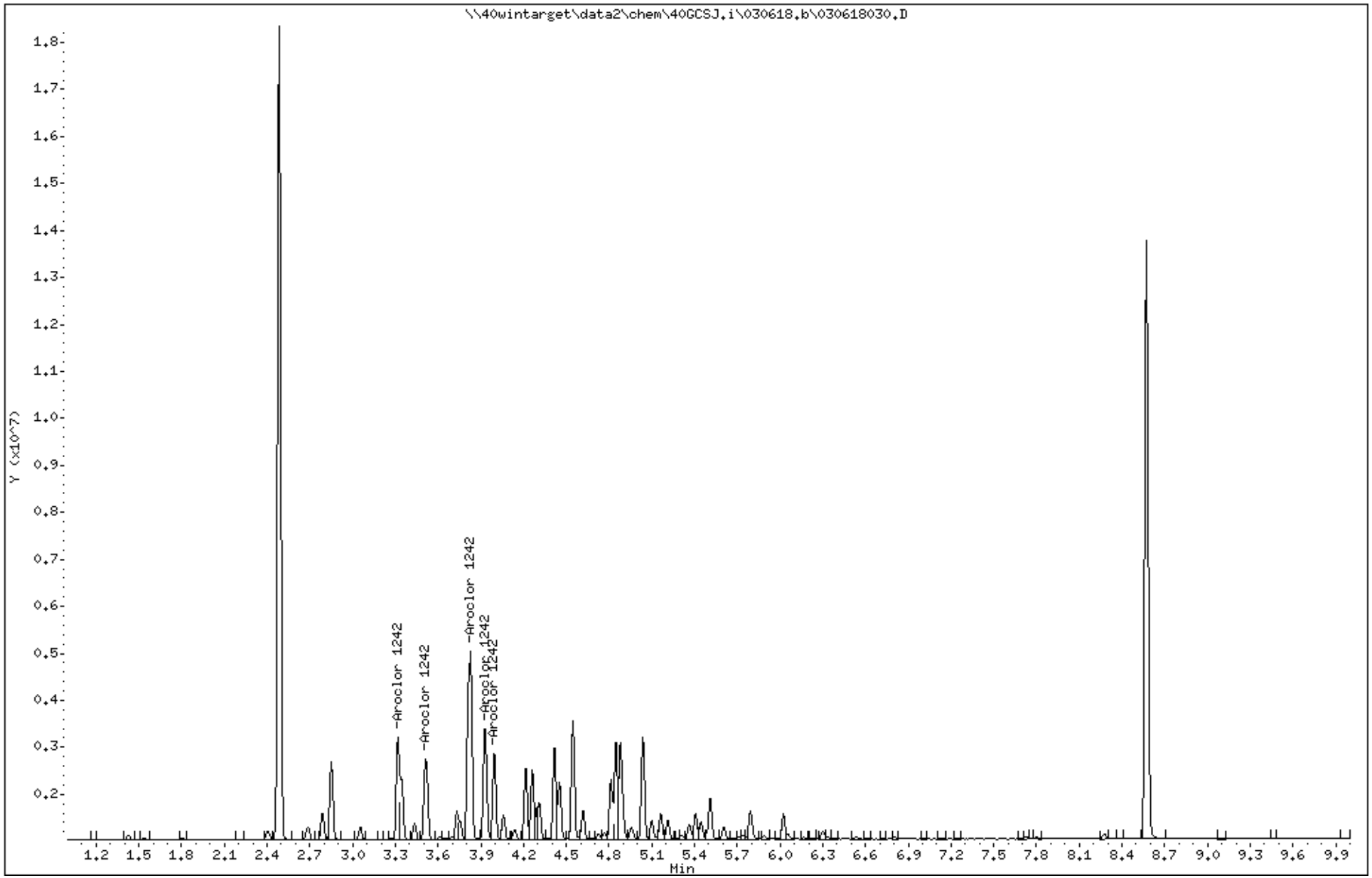
M - Compound response manually integrated.

Review Codes Legend

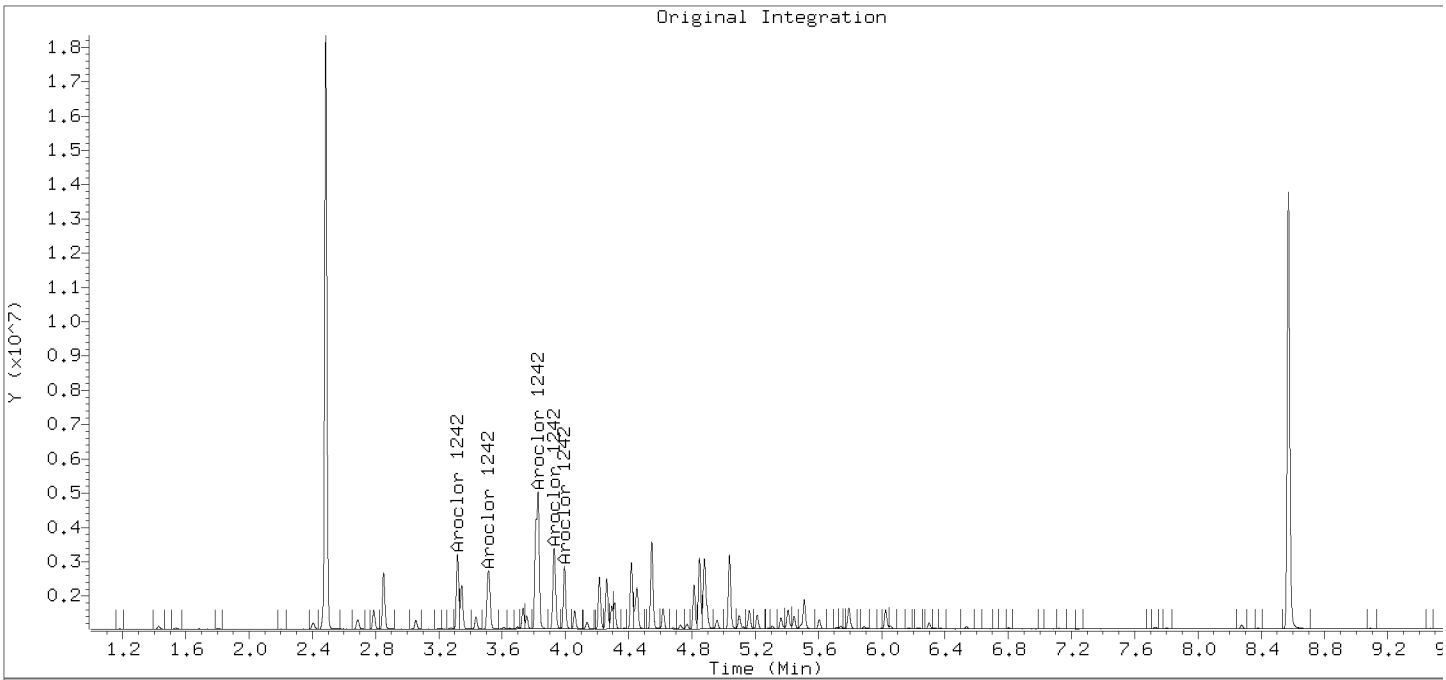
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

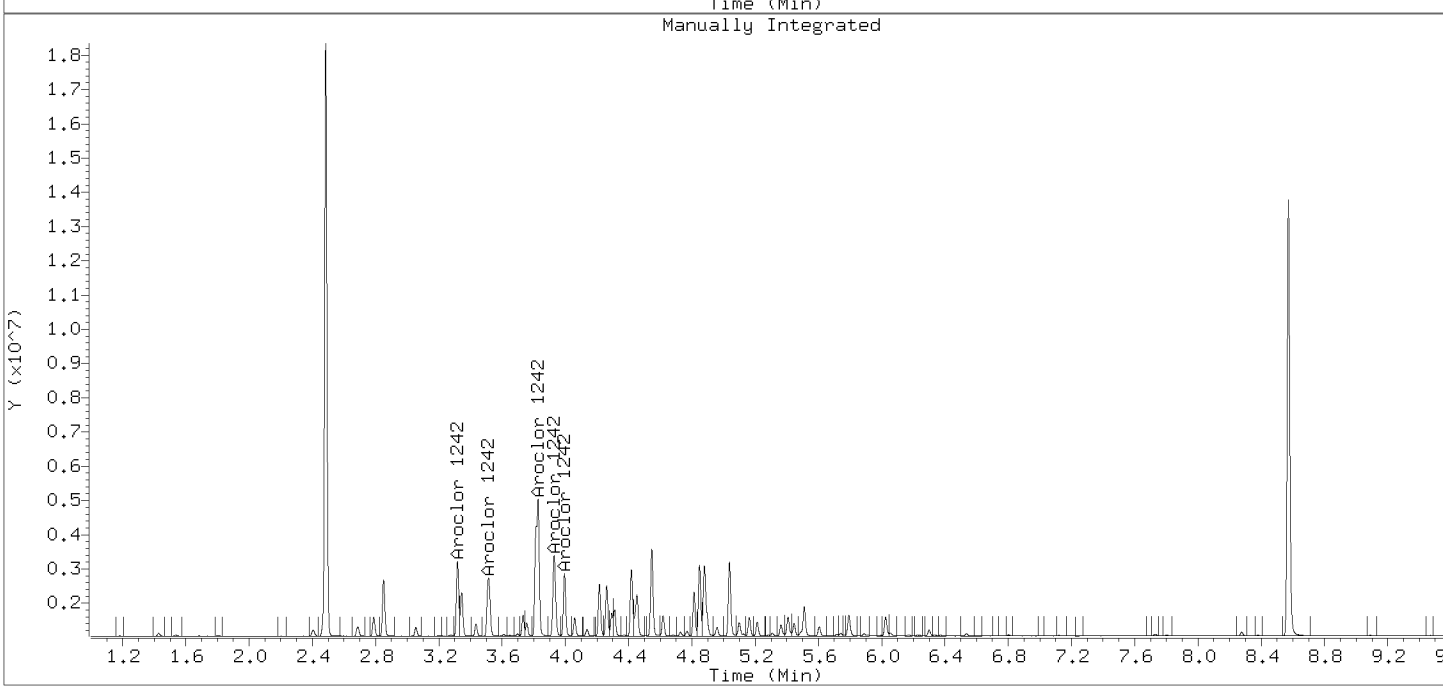
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Lab Smp Id: 1248-CAL1D Client Smp ID: 1248-CAL1D
Inj Date : 06-MAR-2018 15:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:21 Cal File: 030618034.D
Als bottle: 18 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	14305	12931	0.904	0.15		
2.484	1247615	1209145	0.969	13.39		
2.788	24449	24176	0.989	0.25		
2.851	42332	37681	0.890	0.44		
3.054	17847	15627	0.876	0.18		
3.319	154829	149314	0.964	1.63		
3.345	69818	62303	0.892	0.73		
3.434	21759	16384	0.753	0.22		
3.514	129337	91632	0.708	1.36		
3.732	41192	29456	0.715	0.43		
3.815	249582	260696	1.045	2.62		
3.827	243092	265599	1.093	2.56		
3.930	196862	149009	0.757	2.07		
3.994	130100	120464	0.926	1.37		
4.060	81123	71377	0.880	0.85		
4.135	37994	31819	0.837	0.40		
4.215	323817	309946	0.957	3.41		
4.261	252265	240506	0.953	2.65	6 Aroclor 1248	BA
4.293	108819	107853	0.991	1.14		
4.310	114993	111028	0.966	1.21		
4.418	386700	369661	0.956	4.07		
4.452	202370	173038	0.855	2.13		
4.546	444141	405258	0.912	4.67	6 Aroclor 1248	BA
4.618	103930	97669	0.940	1.09		
4.723	15775	14602	0.926	0.16		
4.768	26846	24690	0.920	0.28		
4.814	217596	209298	0.962	2.29	6 Aroclor 1248	BA
4.848	417341	413186	0.990	4.39		
4.879	538491	358710	0.666	5.67	6 Aroclor 1248	BA
4.956	69249	57131	0.825	0.72		
5.038	375736	339065	0.902	3.95	6 Aroclor 1248	BA
5.100	148135	110594	0.747	1.56		
5.163	166243	148041	0.891	1.75		
5.212	121348	109604	0.903	1.27		
5.313	32609	23414	0.718	0.34		
5.363	107678	94673	0.879	1.13		
5.408	174507	147282	0.844	1.83		

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Lab Smp Id: 1248-CAL1D Client Smp ID: 1248-CAL1D
Inj Date : 06-MAR-2018 15:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:21 Cal File: 030618034.D
Als bottle: 18 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	252264	0.10000	0.11	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	444140	0.10000	0.11	0.00- 20.00	176.06	BA
4.814	4.812	0.002	217595	0.10000	0.11	0.00- 20.00	86.26	BA
4.879	4.879	0.000	538491	0.10000	0.11	0.00- 20.00	213.46	BA
5.037	5.038	-0.001	375736	0.10000	0.10	0.00- 20.00	148.95	BA
Average of Peak Amounts =					0.10800			

QC Flag Legend

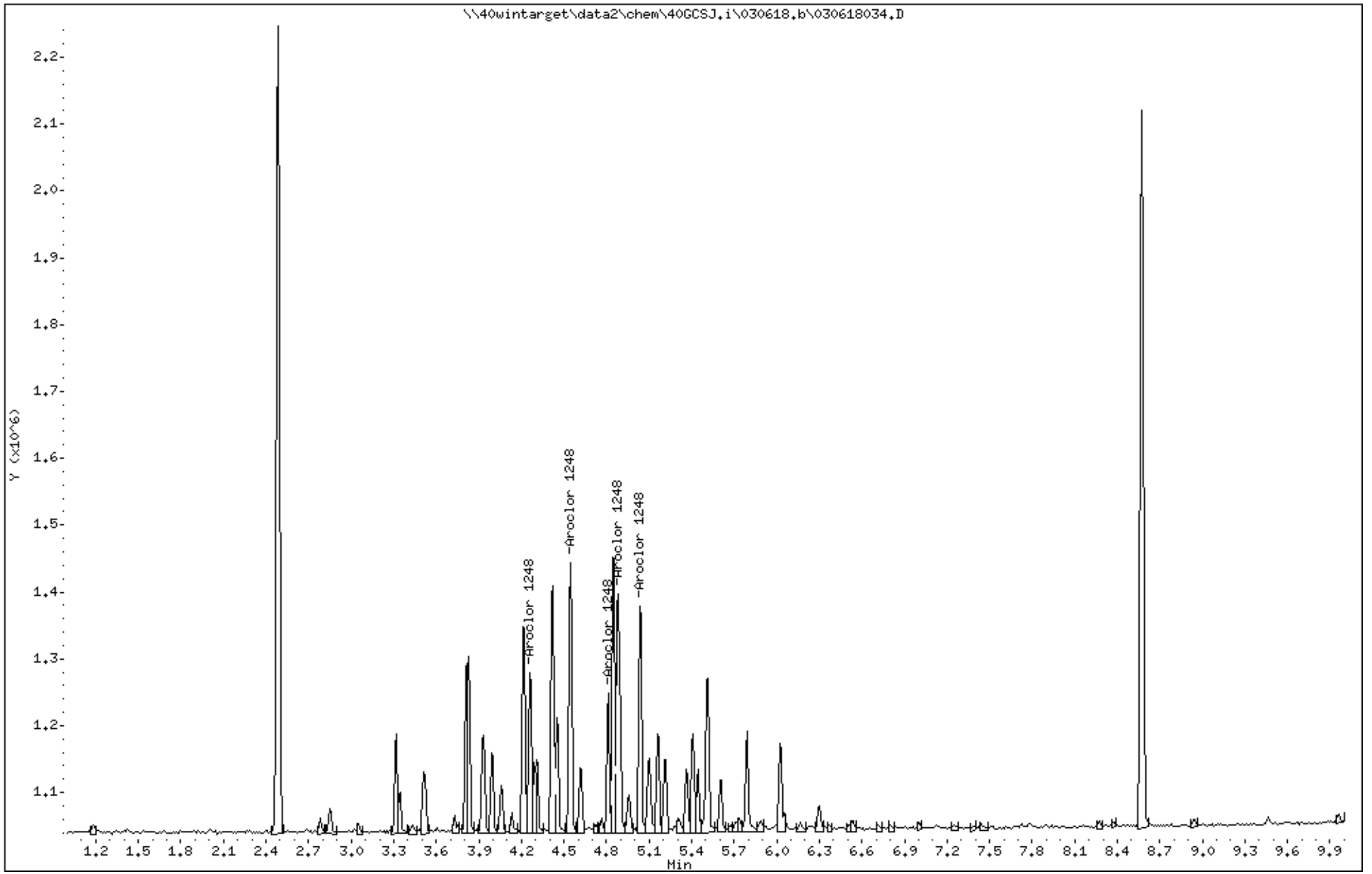
M - Compound response manually integrated.

Review Codes Legend

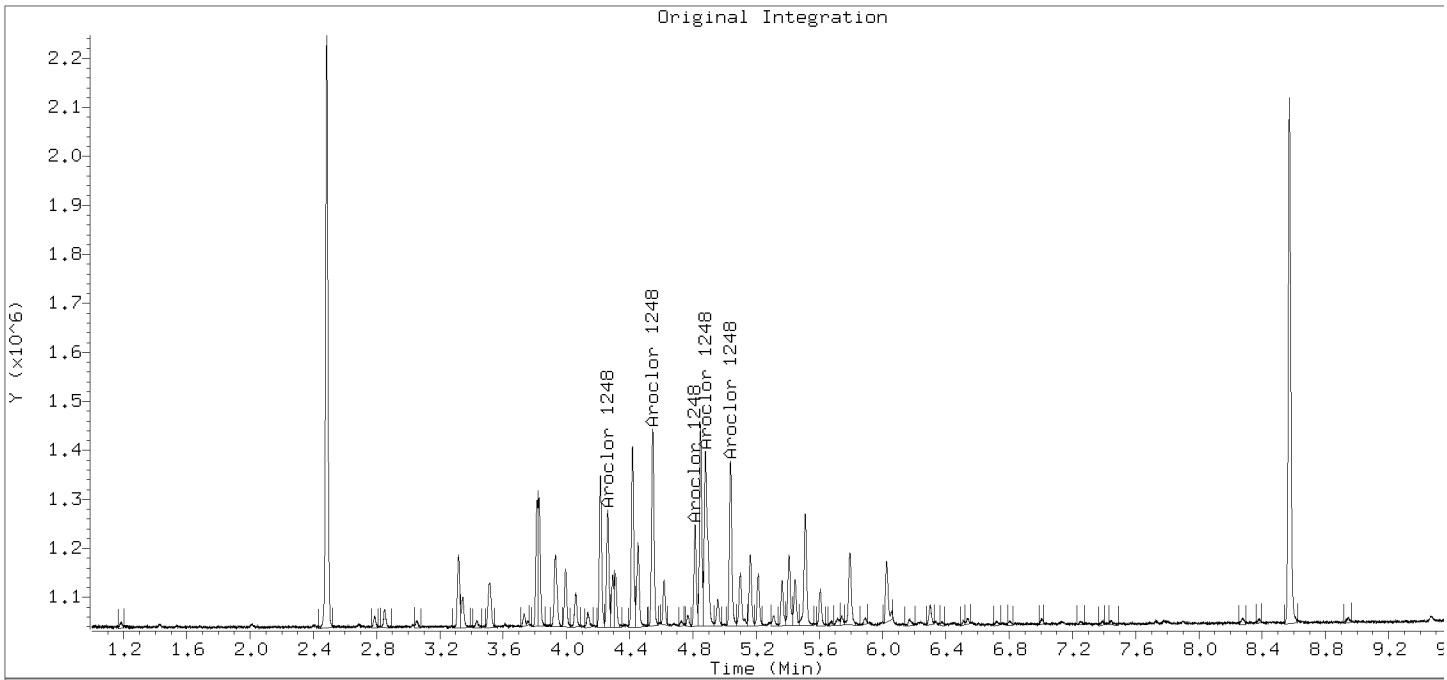
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

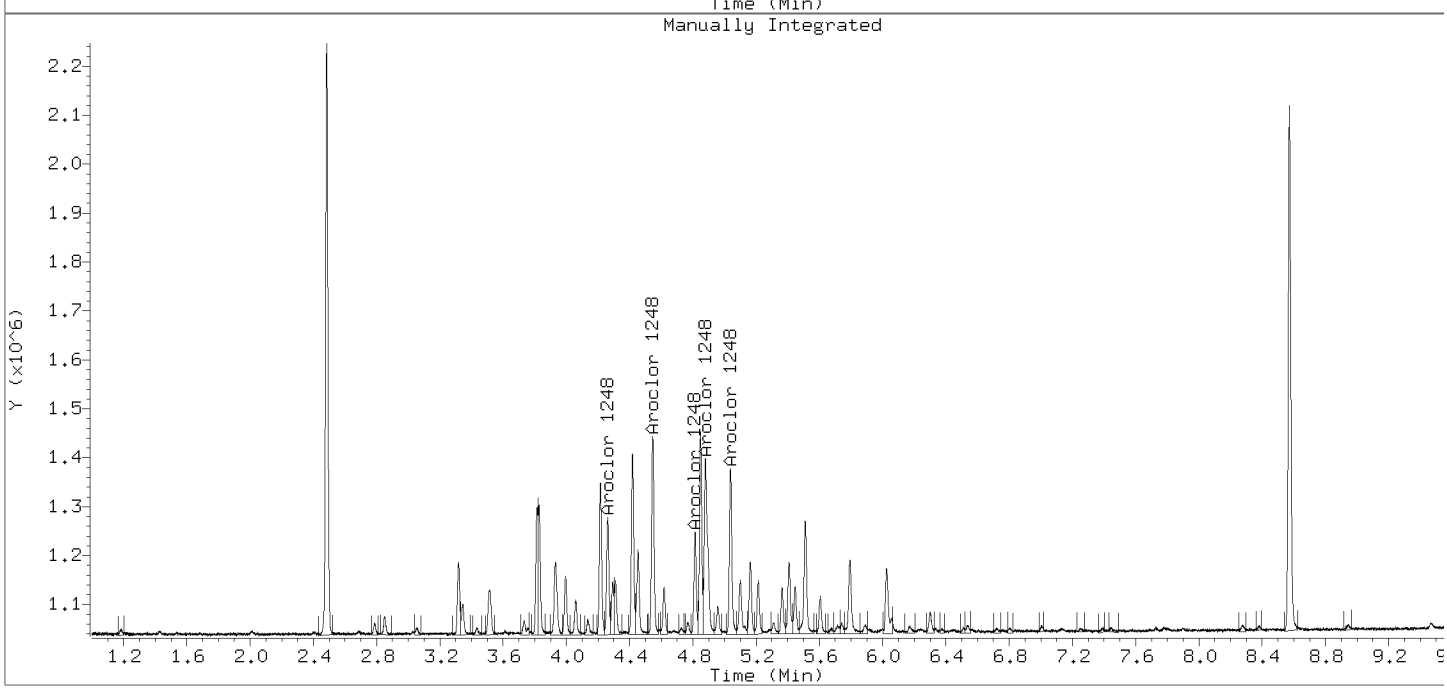
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Lab Smp Id: 1248-CAL2D Client Smp ID: 1248-CAL2D
Inj Date : 06-MAR-2018 15:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:37 Cal File: 030618036.D
Als bottle: 19 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	14828	12598	0.850	0.08		
1.430	17405	15532	0.892	0.09		
1.539	10978	9178	0.836	0.05		
2.484	2410492	2310272	0.958	13.49		
2.687	17007	12868	0.757	0.09		
2.788	48103	47022	0.978	0.26		
2.850	76500	74948	0.980	0.41		
3.054	25960	22998	0.886	0.14		
3.317	298832	283610	0.949	1.62		
3.344	124976	117615	0.941	0.68		
3.435	29128	26666	0.915	0.15		
3.515	253342	181031	0.715	1.37		
3.731	81061	56758	0.700	0.44		
3.815	462892	504630	1.090	2.51		
3.826	513591	533097	1.038	2.79		
3.930	374207	289234	0.773	2.03		
3.994	244564	239466	0.979	1.33		
4.058	144578	133216	0.921	0.78		
4.138	61375	54340	0.885	0.33		
4.215	629384	607757	0.966	3.42		
4.262	495628	473751	0.956	2.69	6 Aroclor 1248	BA
4.292	207266	214773	1.036	1.12		
4.310	218472	204865	0.938	1.18		
4.418	768532	734950	0.956	4.18		
4.453	378840	319389	0.843	2.06		
4.546	893337	815571	0.913	4.86	6 Aroclor 1248	BA
4.619	201356	185248	0.920	1.09		
4.680	15861	10971	0.692	0.08		
4.727	29910	23588	0.789	0.16		
4.768	49430	45109	0.913	0.26		
4.813	420194	408578	0.972	2.28	6 Aroclor 1248	BA
4.849	831772	785146	0.944	4.52		
4.879	1060573	728567	0.687	5.77	6 Aroclor 1248	BA
4.957	136900	106494	0.778	0.74		
5.037	754040	696546	0.924	4.10	6 Aroclor 1248	BA
5.100	272713	215866	0.792	1.48		
5.163	325949	288755	0.886	1.77		

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D Page 2
Report Date: 22-Mar-2018 13:34

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Lab Smp Id: 1248-CAL2D Client Smp ID: 1248-CAL2D
Inj Date : 06-MAR-2018 15:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:37 Cal File: 030618036.D
Als bottle: 19 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	495628	0.20000	0.21	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	893336	0.20000	0.22	0.00- 20.00	180.24	BA
4.813	4.812	0.001	420194	0.20000	0.21	0.00- 20.00	84.78	BA
4.878	4.879	-0.001	1060573	0.20000	0.21	0.00- 20.00	213.99	BA
5.036	5.038	-0.002	754040	0.20000	0.21	0.00- 20.00	152.14	BA
Average of Peak Amounts =					0.21200			

QC Flag Legend

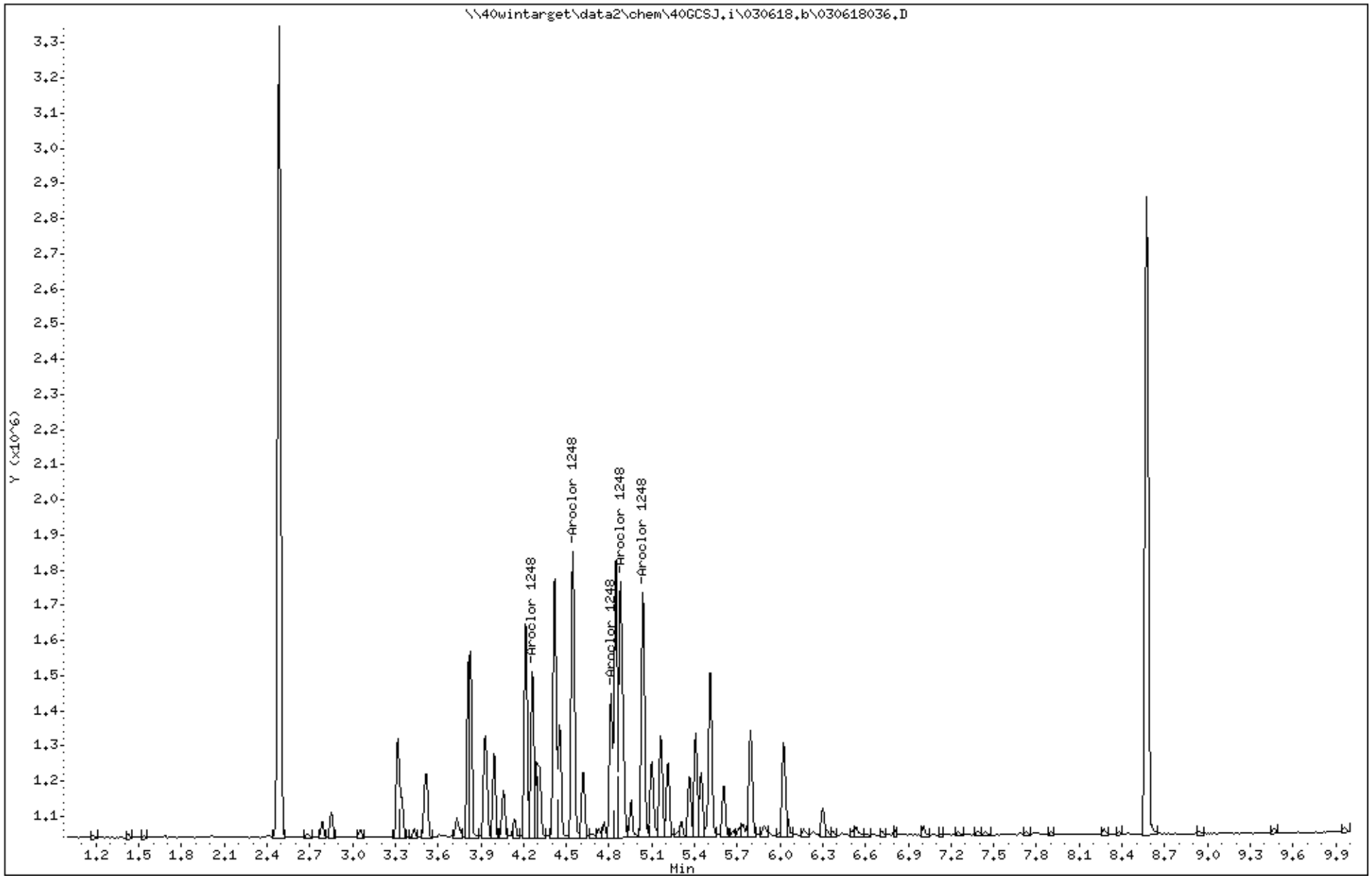
M - Compound response manually integrated.

Review Codes Legend

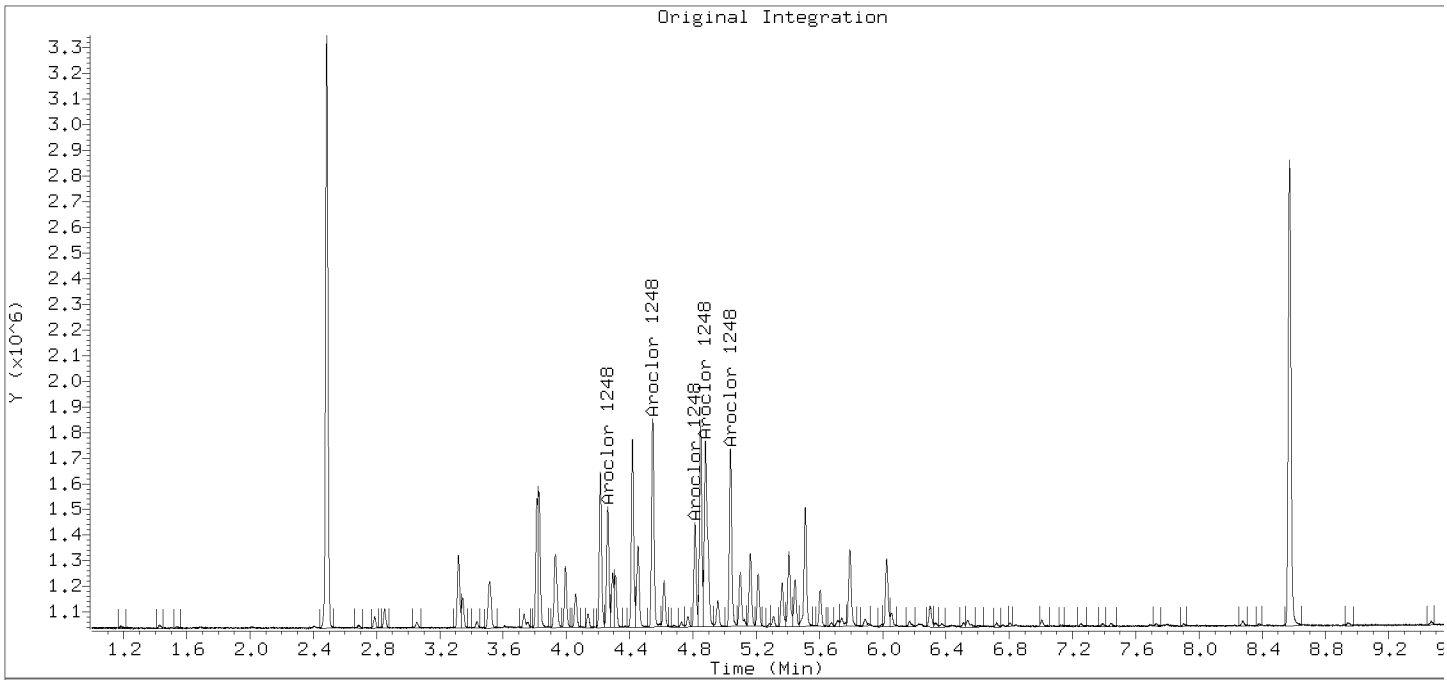
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

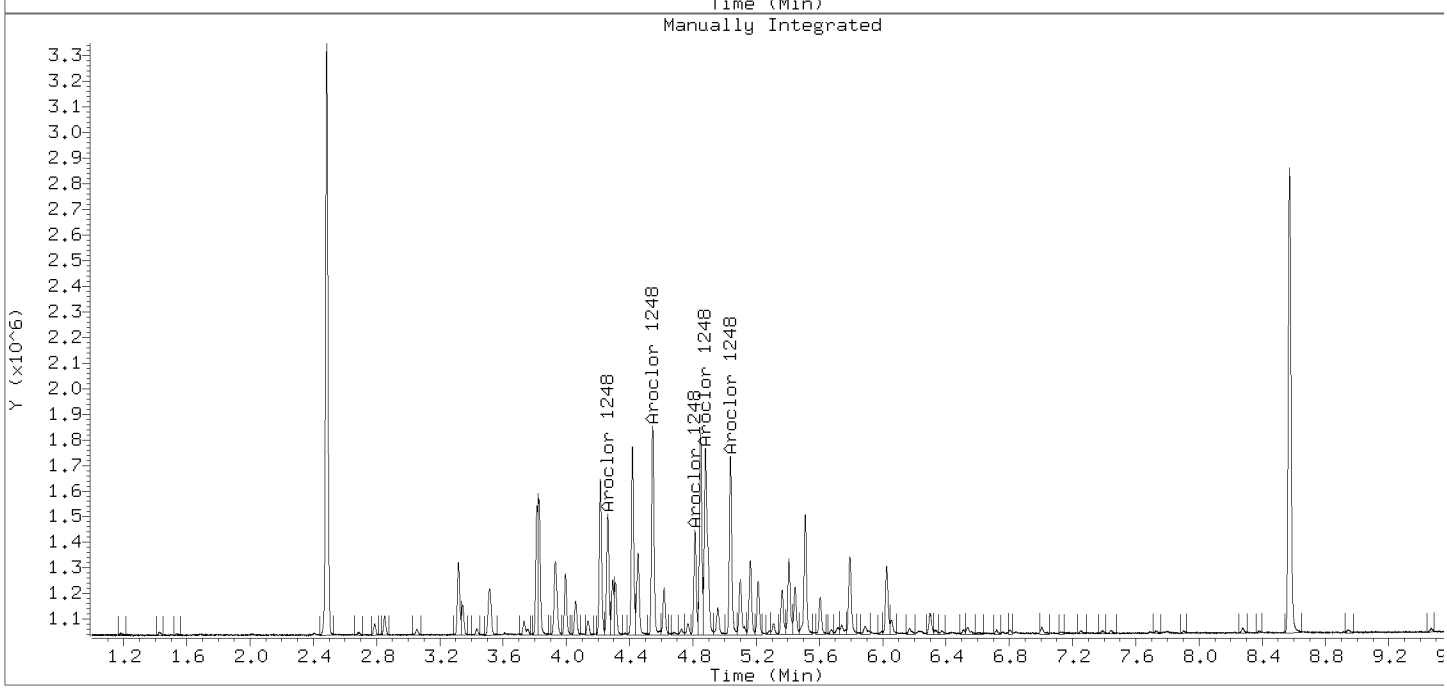
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Date : 06-MAR-2018 15:37
Client ID: 1248-CAL2D
Sample Info: 1248-CAL2D, 185548:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Lab Smp Id: 1248-CAL3D Client Smp ID: 1248-CAL3D
Inj Date : 06-MAR-2018 15:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:53 Cal File: 030618038.D
Als bottle: 20 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	52291	42958	0.822	0.11		
1.429	43894	31713	0.722	0.09		
1.534	22011	15352	0.697	0.05		
1.684	14849	11921	0.803	0.03		
2.012	36627	27328	0.746	0.08		
2.407	26546	19456	0.733	0.06		
2.484	6017126	5772700	0.959	14.16		
2.690	32471	25048	0.771	0.07		
2.787	113251	108295	0.956	0.25		
2.852	188762	171319	0.908	0.42		
3.029	16871	18416	1.092	0.03		
3.055	67710	56713	0.838	0.15		
3.317	703226	686995	0.977	1.60		
3.344	286830	276759	0.965	0.65		
3.435	67890	58817	0.866	0.15		
3.516	596412	432178	0.725	1.35		
3.611	19167	18609	0.971	0.04		
3.647	15129	9511	0.629	0.03		
3.732	135042	128551	0.952	0.30		
3.756	64325	57019	0.886	0.14		
3.813	1062140	1201939	1.132	2.41		
3.826	1285788	1271741	0.989	2.92		
3.930	900477	692801	0.769	2.04		
3.994	605988	570061	0.941	1.37		
4.058	351201	319673	0.910	0.79		
4.137	149029	131722	0.884	0.33		
4.215	1475927	1383740	0.938	3.35		
4.261	1173198	1126600	0.960	2.66	6 Aroclor 1248	BA
4.293	494927	502286	1.015	1.12		
4.310	515717	488015	0.946	1.17		
4.417	1799324	1700045	0.945	4.09		
4.452	888654	777134	0.875	2.02		
4.546	2052388	1889189	0.920	4.66	6 Aroclor 1248	BA
4.588	34383	33944	0.987	0.07		
4.618	476094	438433	0.921	1.08		
4.681	29129	21872	0.751	0.06		
4.727	64061	51195	0.799	0.14		

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Lab Smp Id: 1248-CAL3D Client Smp ID: 1248-CAL3D
Inj Date : 06-MAR-2018 15:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:53 Cal File: 030618038.D
Als bottle: 20 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1173198	0.50000	0.50	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2052387	0.50000	0.49	0.00- 20.00	174.94	BA
4.813	4.812	0.001	1017190	0.50000	0.50	0.00- 20.00	86.70	BA
4.879	4.879	0.000	2527488	0.50000	0.50	0.00- 20.00	215.44	BA
5.037	5.038	-0.001	1794001	0.50000	0.50	0.00- 20.00	152.92	BA
Average of Peak Amounts =					0.49800			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D

Date : 06-MAR-2018 15:53

Client ID: 1248-CAL3D

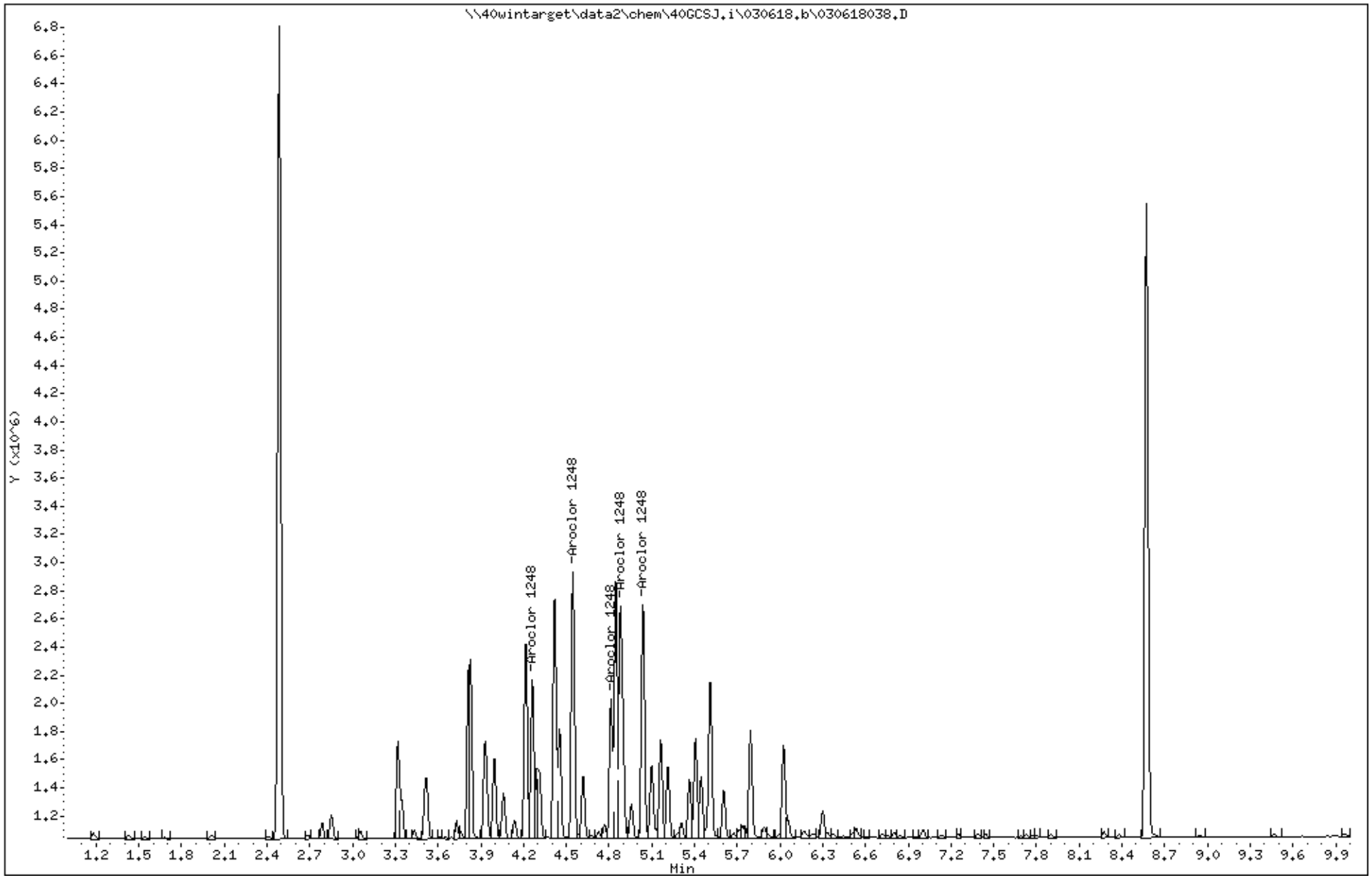
Instrument: 40GCSJ.i

Sample Info: 1248-CAL3D, 185549:1

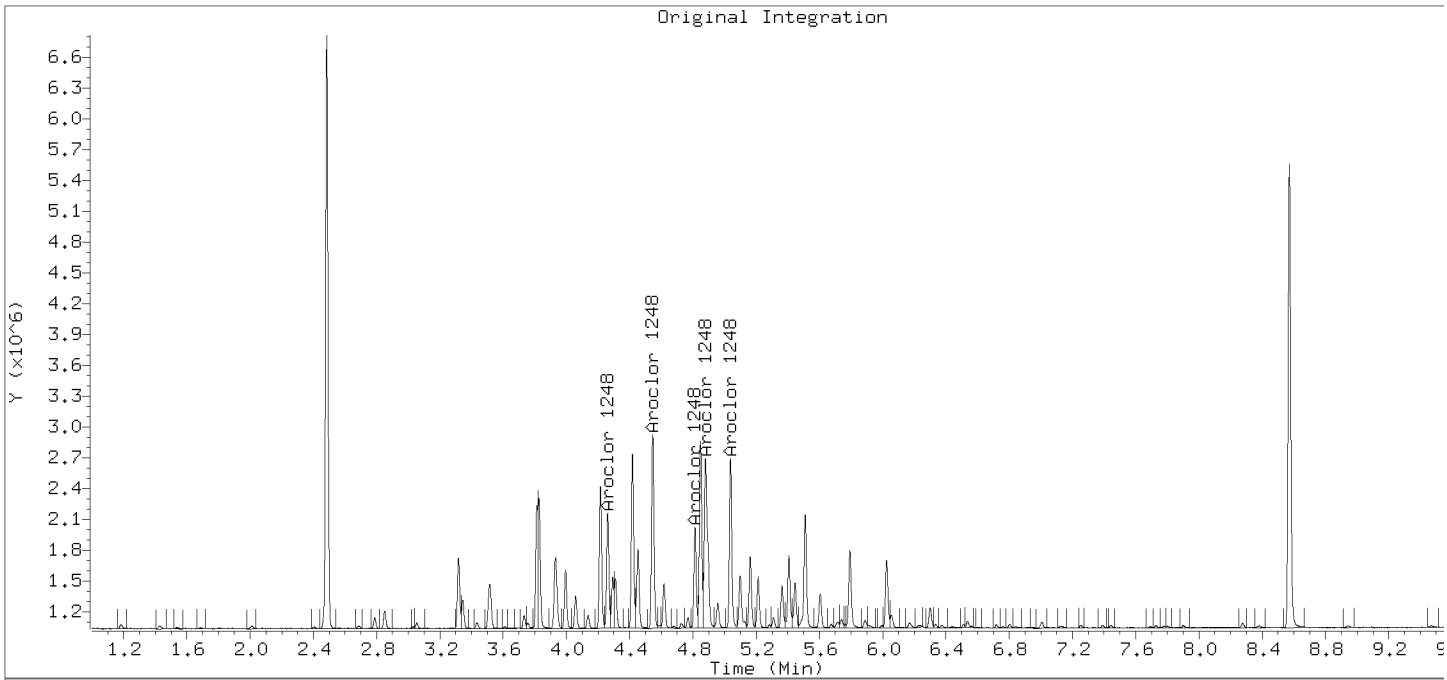
Operator: BLM

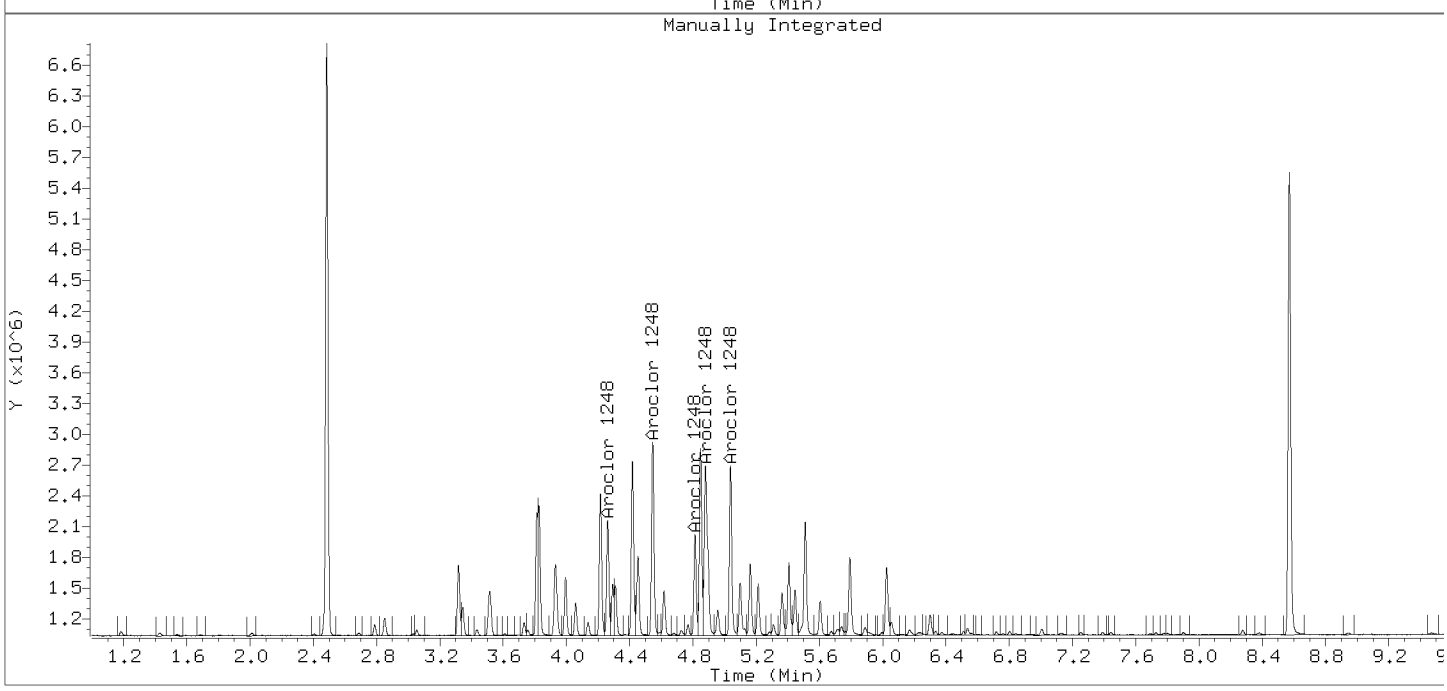
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D
Lab Smp Id: 1248-CAL4D Client Smp ID: 1248-CAL4D
Inj Date : 06-MAR-2018 16:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:09 Cal File: 030618040.D
Als bottle: 21 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	23783	14012	0.589	0.03		
1.430	68772	56288	0.818	0.09		
1.538	27818	21841	0.785	0.03		
2.406	41368	29218	0.706	0.05		
2.485	11662105	11112795	0.953	17.14		
2.688	47215	38573	0.817	0.06		
2.788	203552	191980	0.943	0.29		
2.851	287413	258349	0.899	0.41		
3.055	100338	85256	0.850	0.14		
3.318	1056102	1019716	0.966	1.50		
3.345	441526	421992	0.956	0.63		
3.434	97081	90204	0.929	0.13		
3.515	910659	658598	0.723	1.30		
3.611	32844	31062	0.946	0.04		
3.651	12163	10814	0.889	0.01		
3.695	12227	11029	0.902	0.01		
3.732	195496	195587	1.000	0.27		
3.756	83420	81444	0.976	0.11		
3.814	1567662	1791160	1.143	2.24		
3.827	1917579	1885095	0.983	2.74		
3.931	1340766	1031743	0.770	1.91		
3.994	893318	859435	0.962	1.27		
4.059	507945	474678	0.935	0.72		
4.137	209816	195120	0.930	0.29		
4.216	2174966	1996009	0.918	3.10		
4.262	1747290	1634508	0.935	2.49	6 Aroclor 1248	BA
4.293	719186	757380	1.053	1.02		
4.311	795770	743692	0.935	1.13		
4.418	2683345	2471775	0.921	3.83		
4.453	1336671	1172433	0.877	1.91		
4.546	3077708	2813367	0.914	4.39	6 Aroclor 1248	BA
4.592	50782	48315	0.951	0.07		
4.618	721531	680792	0.944	1.03		
4.682	39778	31109	0.782	0.05		
4.727	90436	74601	0.825	0.12		
4.768	164069	159220	0.970	0.23		
4.814	1529584	1458936	0.954	2.18	6 Aroclor 1248	BA

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D
Lab Smp Id: 1248-CAL4D Client Smp ID: 1248-CAL4D
Inj Date : 06-MAR-2018 16:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:09 Cal File: 030618040.D
Als bottle: 21 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1747289	0.80000	0.74	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	3077707	0.80000	0.74	0.00- 20.00	176.14	BA
4.813	4.812	0.001	1529584	0.80000	0.75	0.00- 20.00	87.54	BA
4.878	4.879	-0.001	3756485	0.80000	0.74	0.00- 20.00	214.99	BA
5.038	5.038	0.000	2708999	0.80000	0.75	0.00- 20.00	155.04	BA
Average of Peak Amounts =					0.74400			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D

Date : 06-MAR-2018 16:09

Client ID: 1248-CAL4D

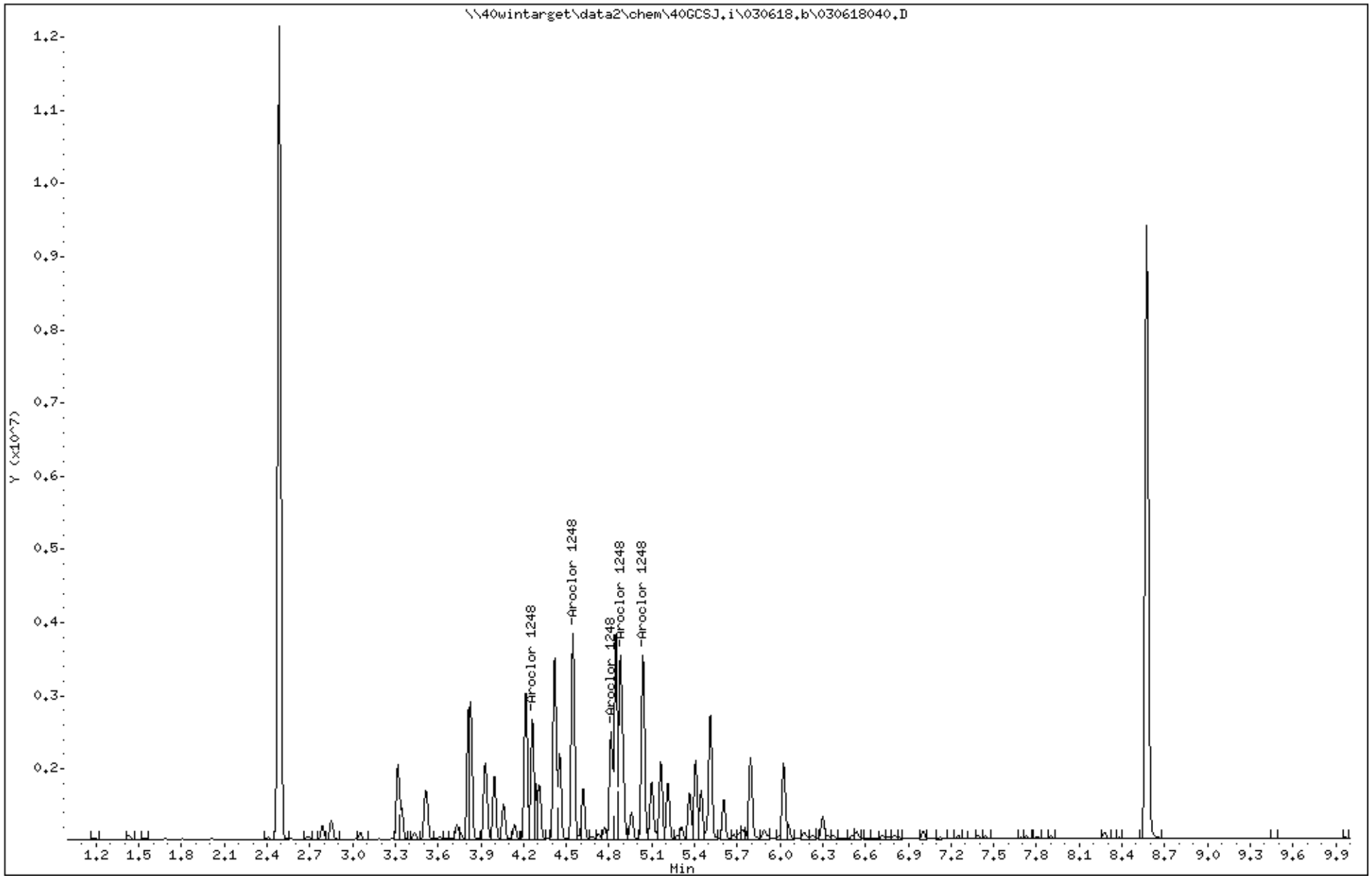
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

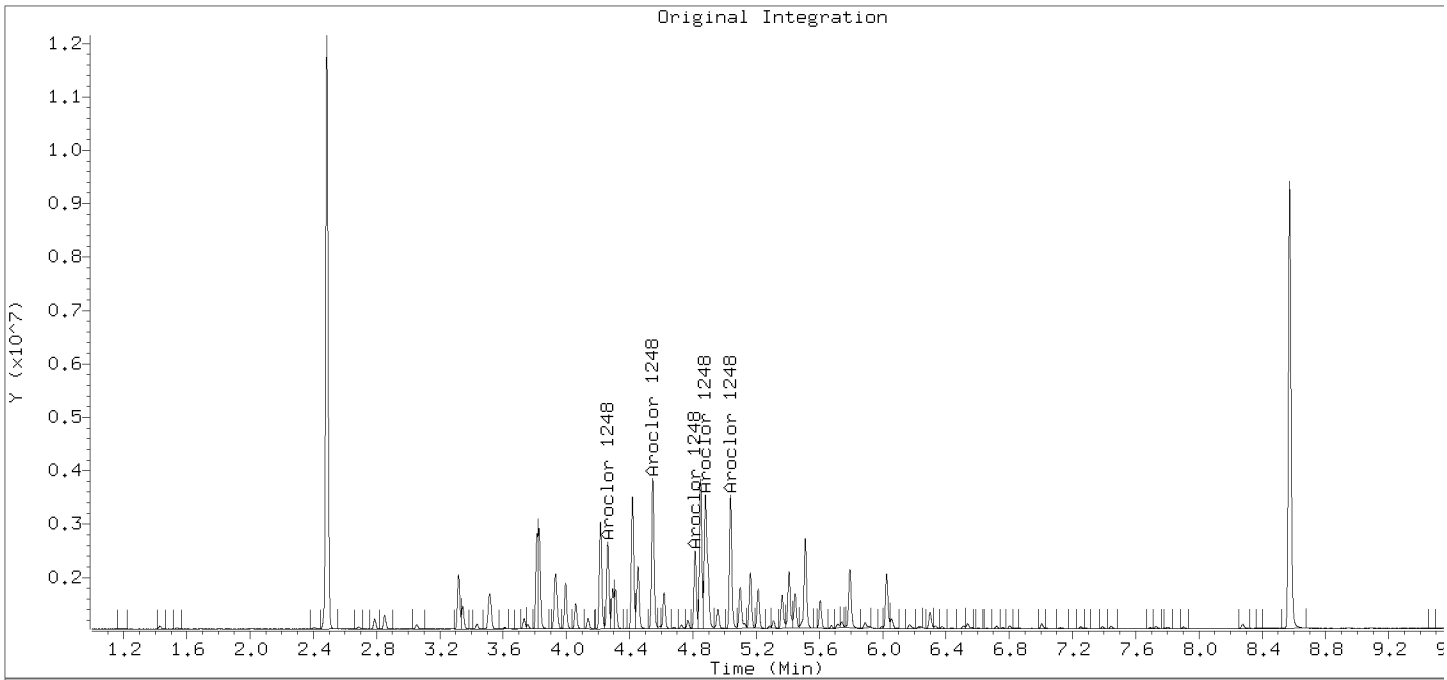
Operator: BLM

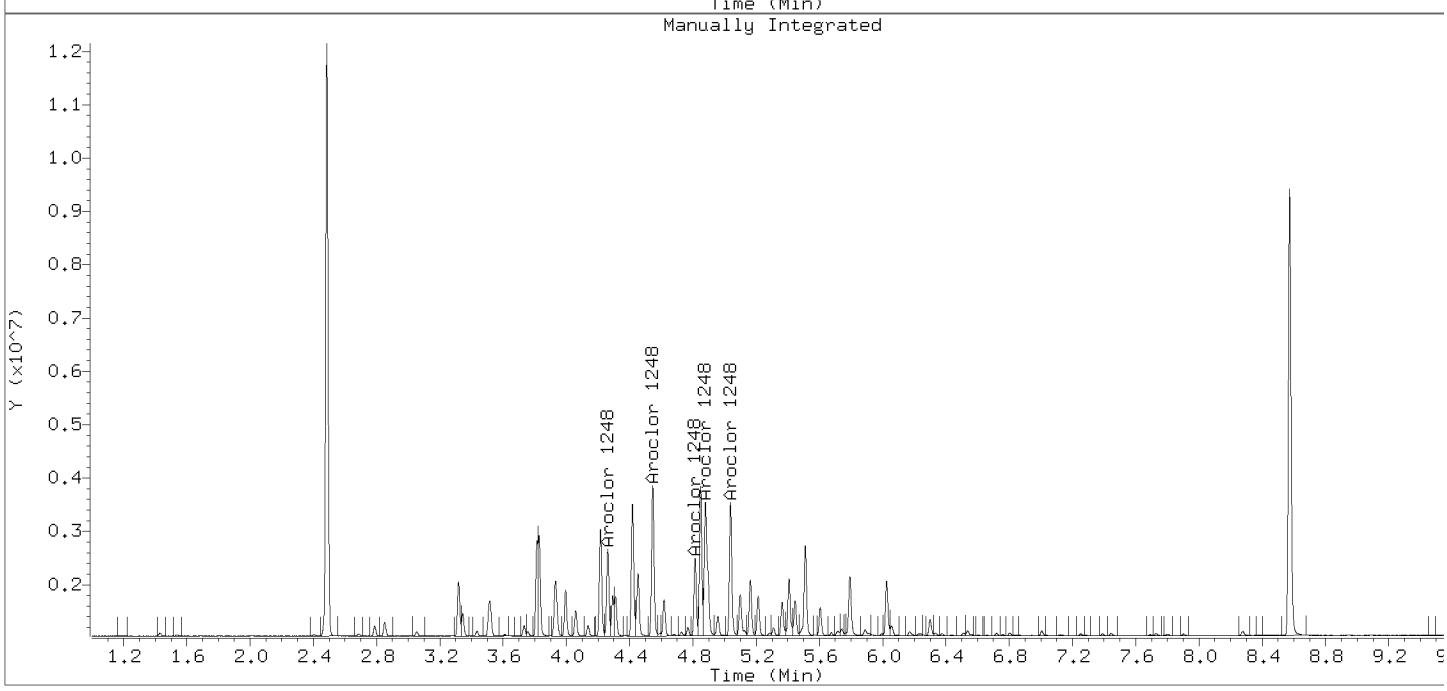
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 06-MAR-2018 16:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:25 Cal File: 030618042.D
Als bottle: 22 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	15397	13334	0.866	0.01		
1.430	101369	87214	0.860	0.10		
1.537	43989	34591	0.786	0.04		
2.406	47903	33430	0.698	0.05		
2.485	17721229	17125552	0.966	19.37		
2.688	56165	47205	0.840	0.05		
2.788	288750	277495	0.961	0.30		
2.851	348759	325290	0.933	0.37		
3.054	123922	115841	0.935	0.13		
3.273	9293	8724	0.939	0.00		
3.318	1341983	1263092	0.941	1.43		
3.344	567538	536022	0.944	0.60		
3.434	126309	115528	0.915	0.13		
3.516	1155877	827361	0.716	1.23		
3.611	47908	47362	0.989	0.05		
3.647	10831	12550	1.159	0.01		
3.696	12947	14220	1.098	0.01		
3.732	246189	245791	0.998	0.26		
3.758	102423	103998	1.015	0.10		
3.814	1931729	2268598	1.174	2.06		
3.826	2479017	2389735	0.964	2.64		
3.931	1695811	1294913	0.764	1.80		
3.995	1133597	1088944	0.961	1.20		
4.059	642924	621662	0.967	0.68		
4.136	260443	245788	0.944	0.27		
4.216	2732694	2586455	0.946	2.91		
4.261	2183583	2056861	0.942	2.32	6 Aroclor 1248	BA
4.293	940491	949013	1.009	1.00		
4.310	984371	940127	0.955	1.05		
4.373	17082	14222	0.833	0.01		
4.418	3371096	3162549	0.938	3.59		
4.453	1703074	1454953	0.854	1.81		
4.546	3891543	3587538	0.922	4.15	6 Aroclor 1248	BA
4.591	55507	60505	1.090	0.05		
4.618	922889	867798	0.940	0.98		
4.679	46691	38089	0.816	0.04		
4.728	116729	92875	0.796	0.12		

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

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 06-MAR-2018 16:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17498,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:25 Cal File: 030618042.D
Als bottle: 22 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	2183582	1.00000	0.93	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	3891542	1.00000	0.94	0.00- 20.00	178.22	BA
4.813	4.812	0.001	1927121	1.00000	0.95	0.00- 20.00	88.26	BA
4.879	4.879	0.000	4748871	1.00000	0.94	0.00- 20.00	217.48	BA
5.037	5.038	-0.001	3440920	1.00000	0.96	0.00- 20.00	157.58	BA
Average of Peak Amounts =					0.94400			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D

Date : 06-MAR-2018 16:25

Client ID: 1248-CAL5D

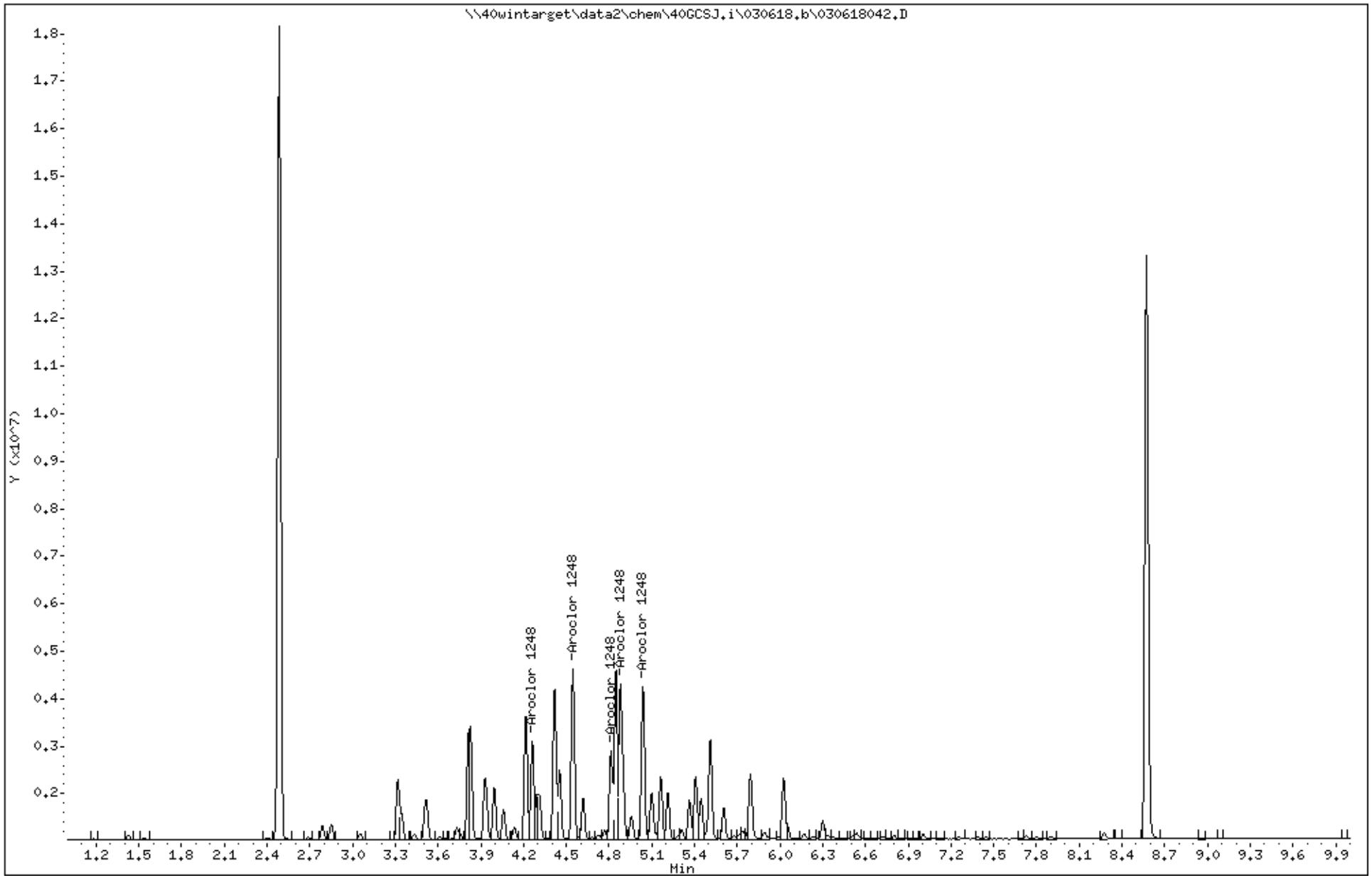
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

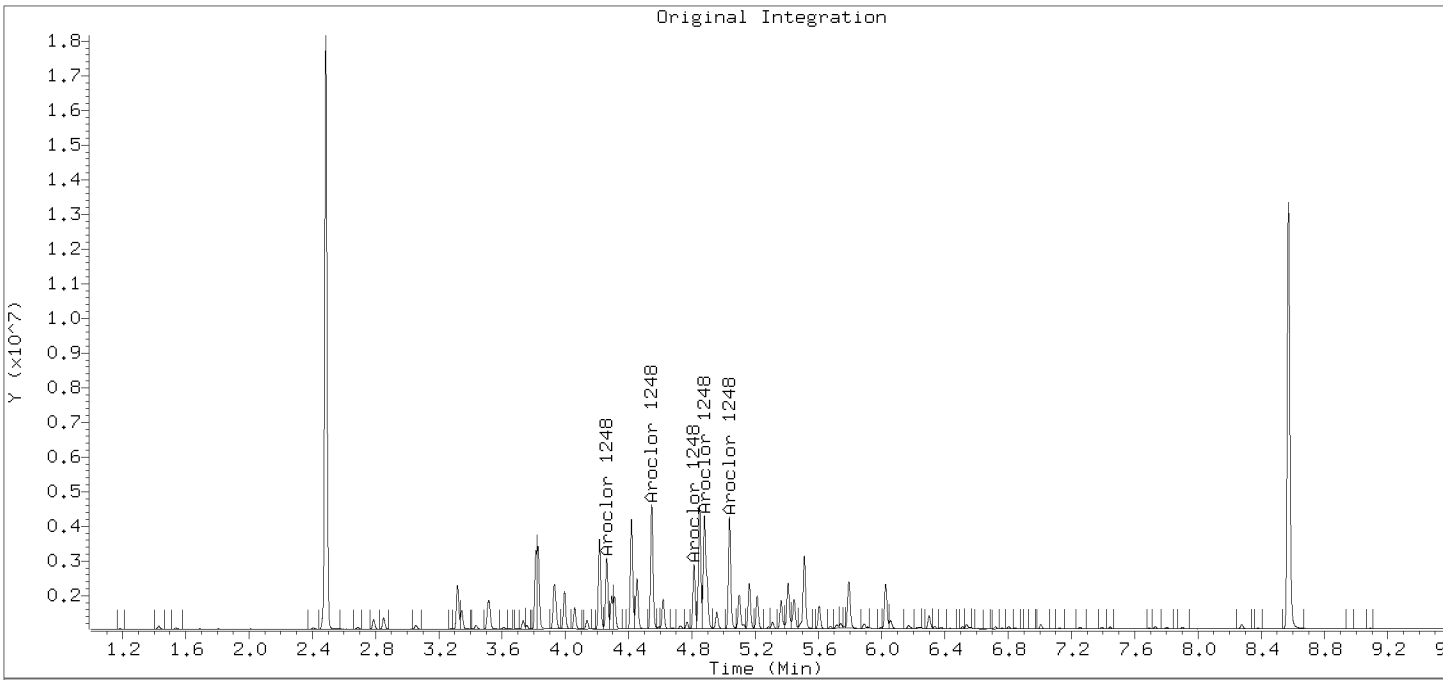
Operator: BLM

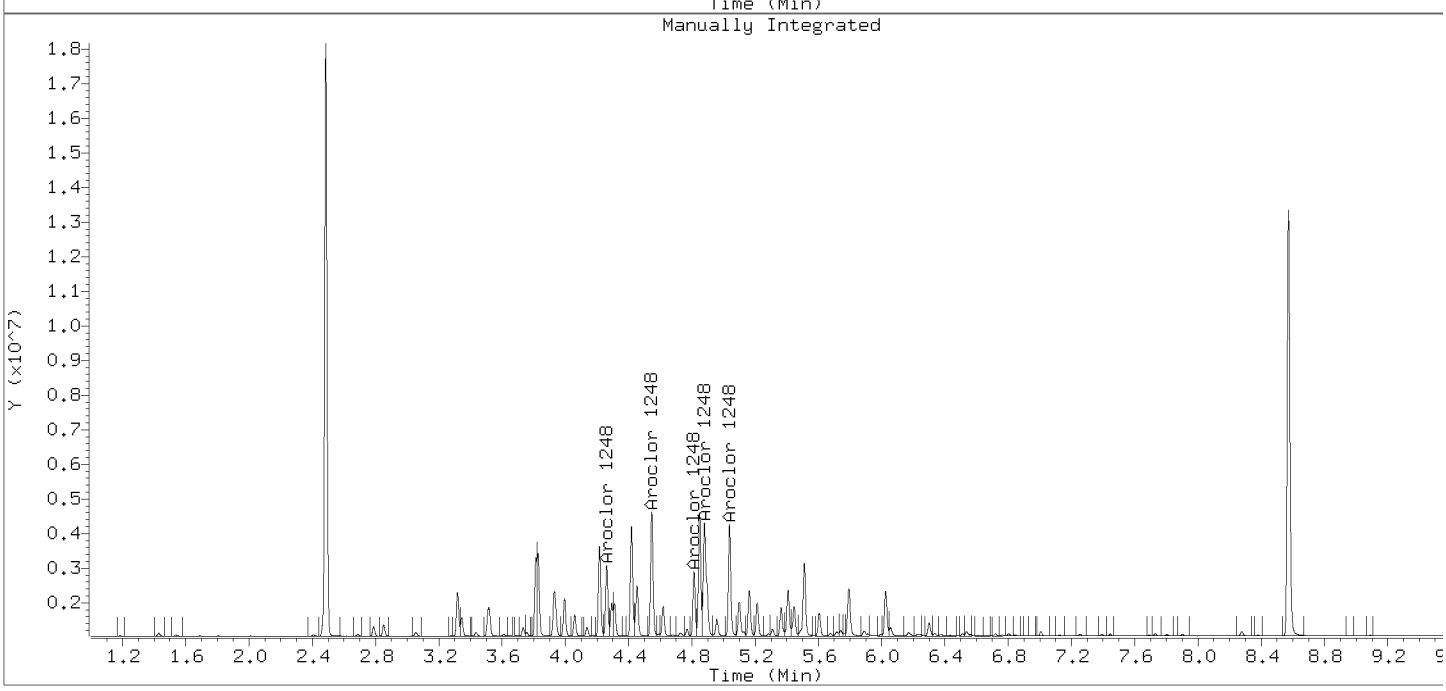
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Lab Smp Id: 1254-CAL1C Client Smp ID: 1254-CAL1C
Inj Date : 06-MAR-2018 16:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal1c, 188135:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:57 Cal File: 030618046.D
Als bottle: 24 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	48987	40093	0.818	0.41		
1.426	12583	10350	0.823	0.10		
1.686	14588	13145	0.901	0.12		
2.011	39185	27090	0.691	0.33		
2.484	1264026	1229666	0.973	11.03		
2.787	25737	23306	0.906	0.21		
3.028	26930	17363	0.645	0.22		
3.814	29490	14918	0.506	0.25		
4.000	27012	19985	0.740	0.22		
4.046	9554	8540	0.894	0.08		
4.215	267608	259554	0.970	2.27		
4.260	70496	69050	0.979	0.59		
4.293	14185	11720	0.826	0.12		
4.418	167997	155970	0.928	1.42		
4.452	20339	17534	0.862	0.17		
4.547	73516	70272	0.956	0.62		
4.615	15012	14316	0.954	0.12		
4.813	63092	62377	0.989	0.53		
4.848	232331	222423	0.957	1.97		
4.895	547413	435444	0.795	4.64		
4.958	89049	77209	0.867	0.75		
5.038	53508	47334	0.885	0.45		
5.101	310238	269708	0.869	2.63		
5.163	578338	533266	0.922	4.91	7 Aroclor 1254	BA
5.213	259231	232363	0.896	2.20		
5.286	13290	15715	1.182	0.11		
5.310	48017	42464	0.884	0.40		
5.363	222324	207379	0.933	1.88		
5.408	461676	411346	0.891	3.91	7 Aroclor 1254	BA
5.446	153810	143804	0.935	1.30		
5.478	60811	58639	0.964	0.51		
5.511	843524	762911	0.904	7.16	7 Aroclor 1254	BA
5.605	121504	105369	0.867	1.03		
5.676	76082	73395	0.965	0.64		
5.712	129494	82303	0.636	1.09		
5.740	72702	60950	0.838	0.61		
5.791	864719	646413	0.748	7.34		

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D Page 2
Report Date: 22-Mar-2018 13:34

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

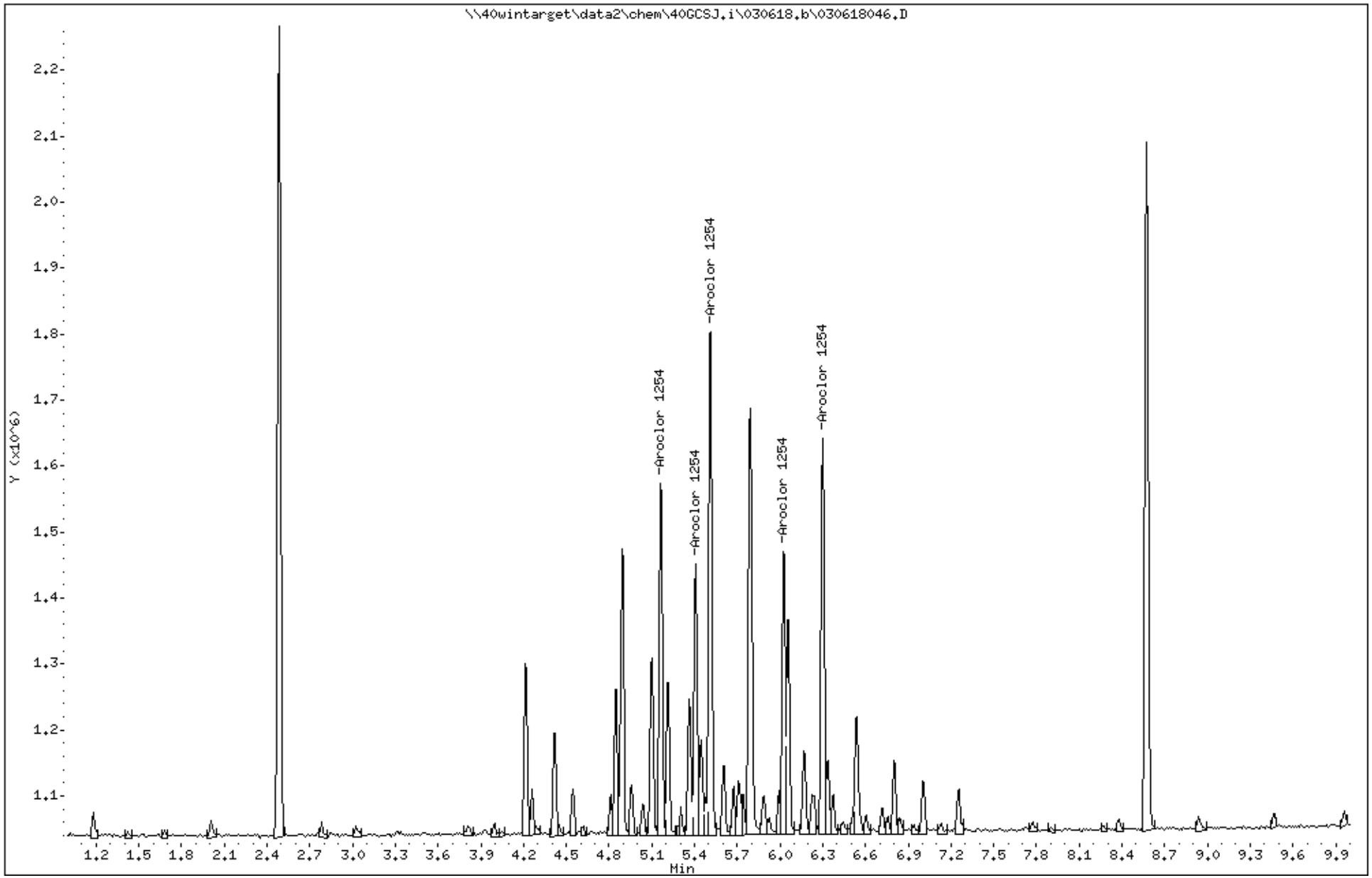
Instrument: 40GCSJ.i

Sample Info: 1254-CAL1C, 188135:1

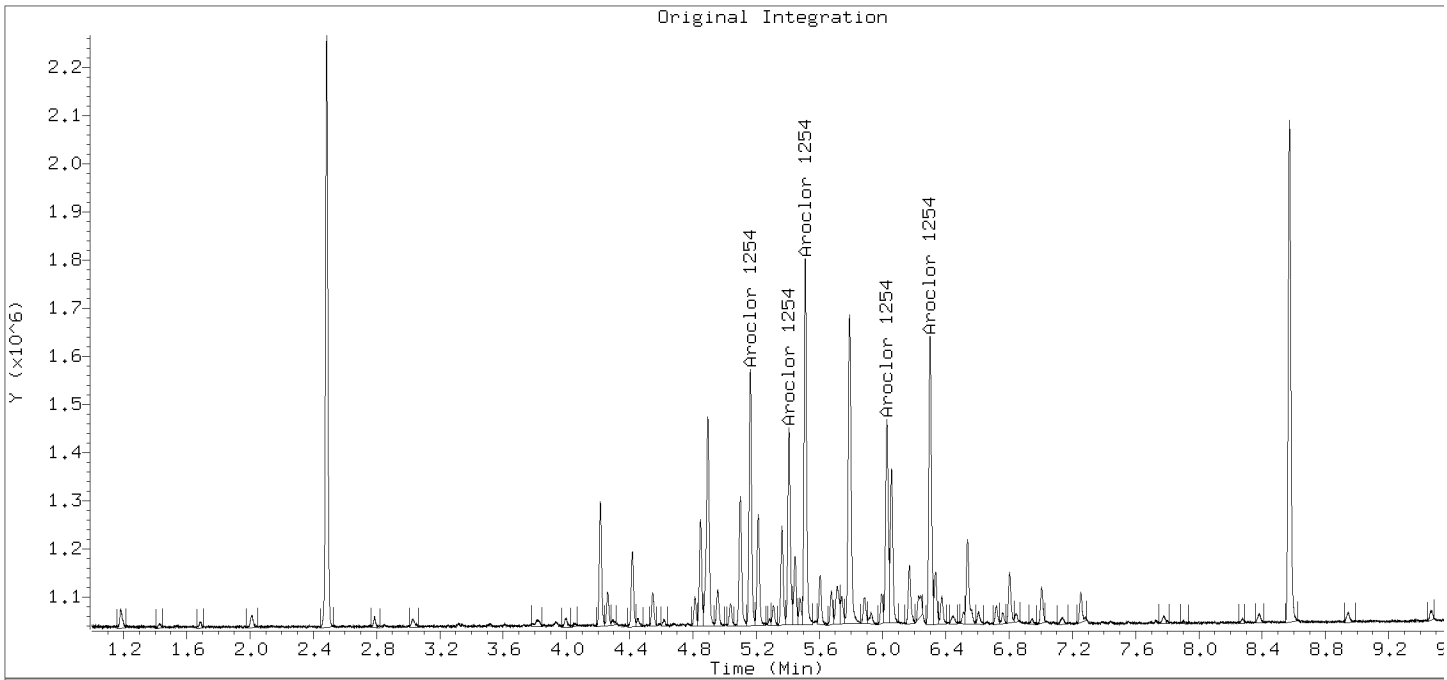
Operator: BLM

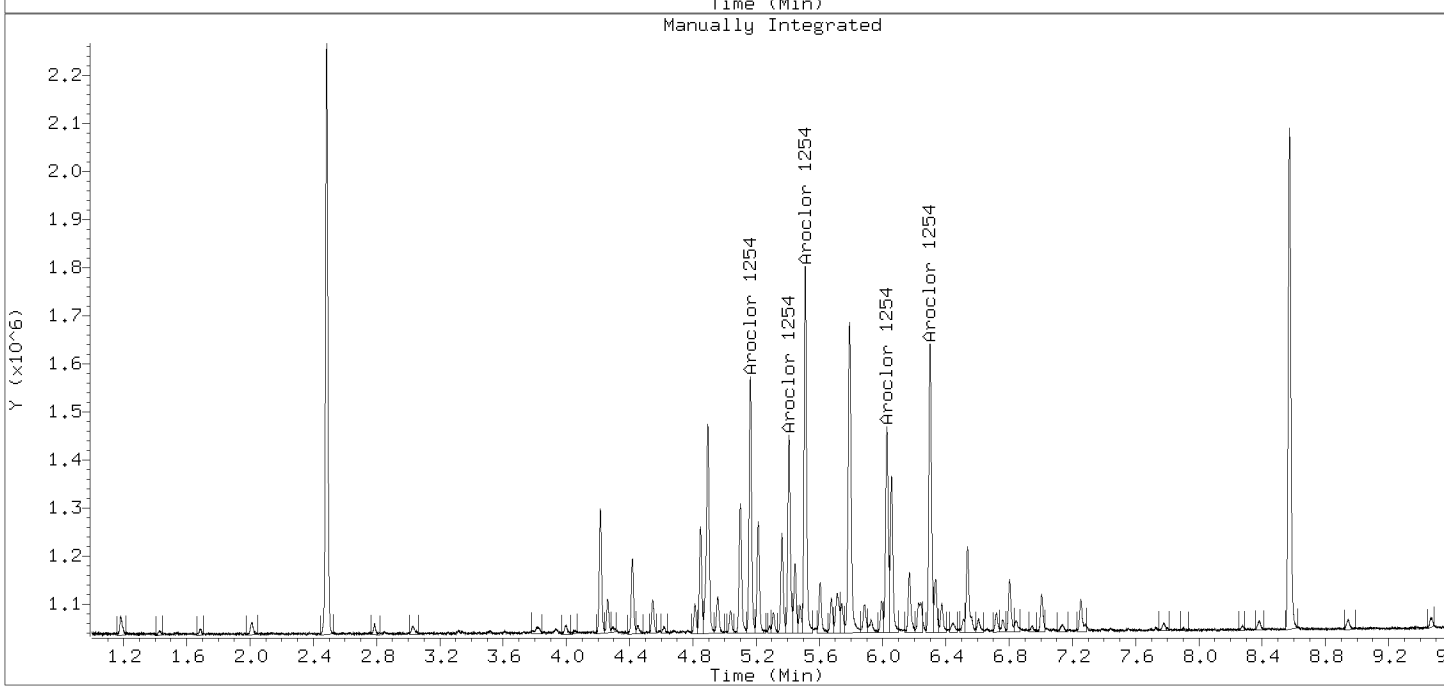
Column phase: ZB-1ms

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

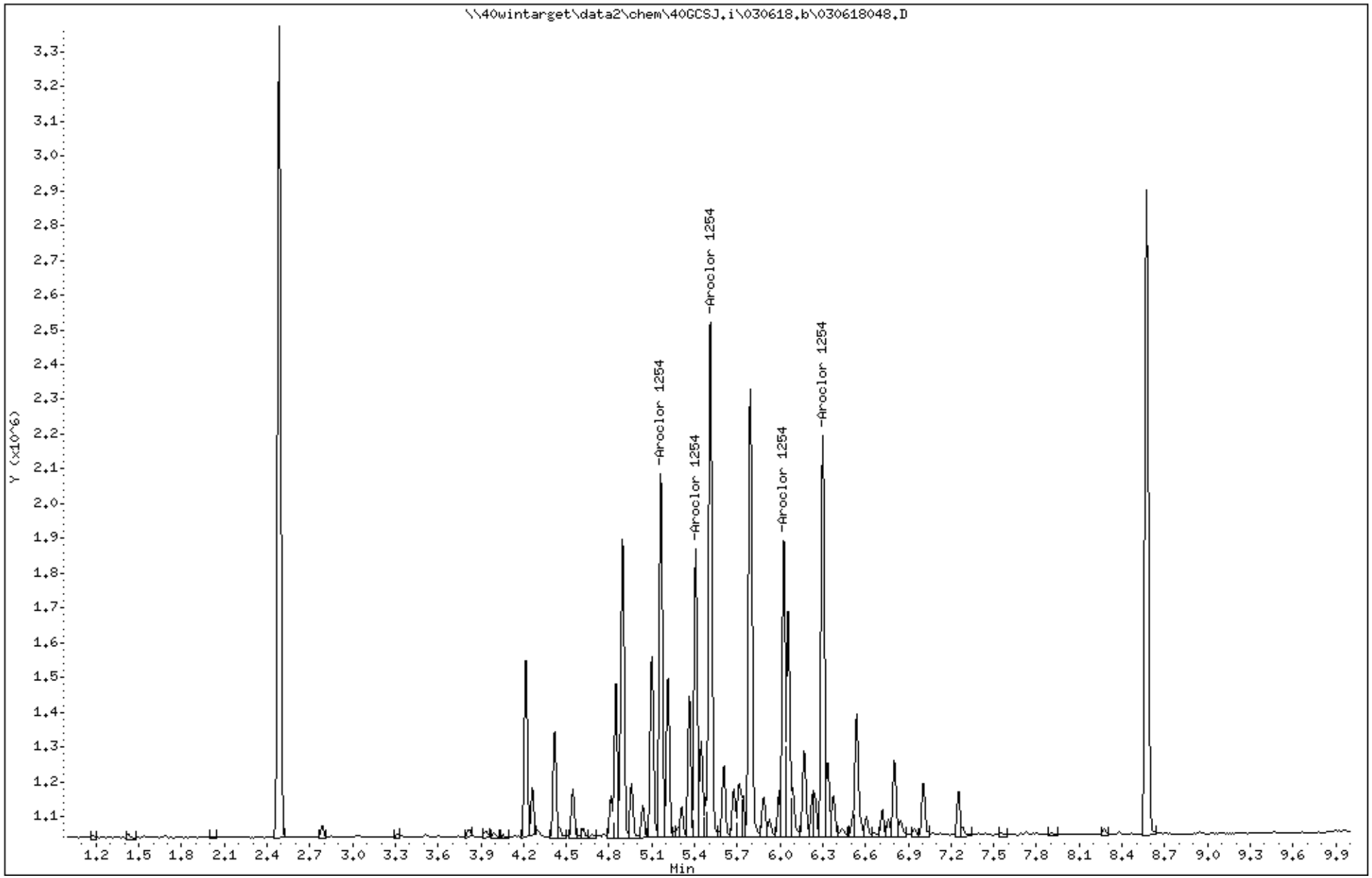
Instrument: 40GCSJ.i

Sample Info: 1254-CAL2C, 185553:1

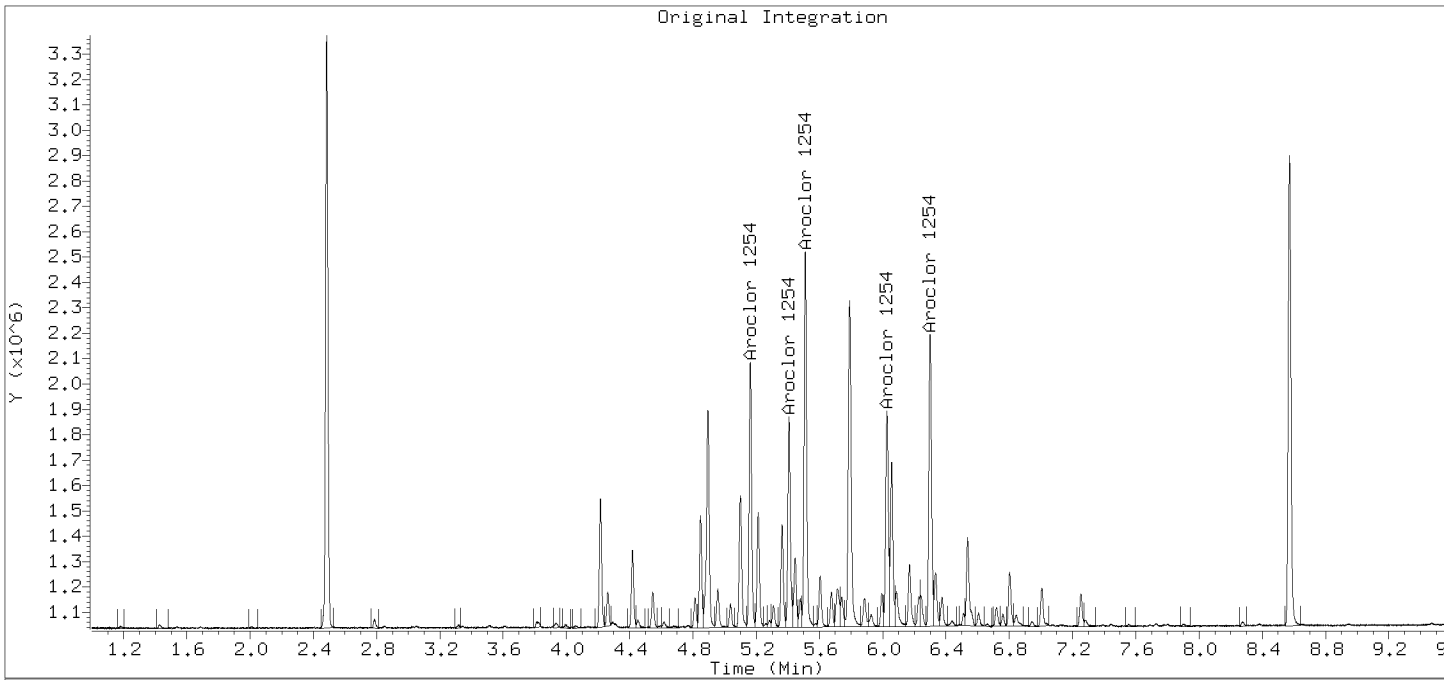
Operator: BLM

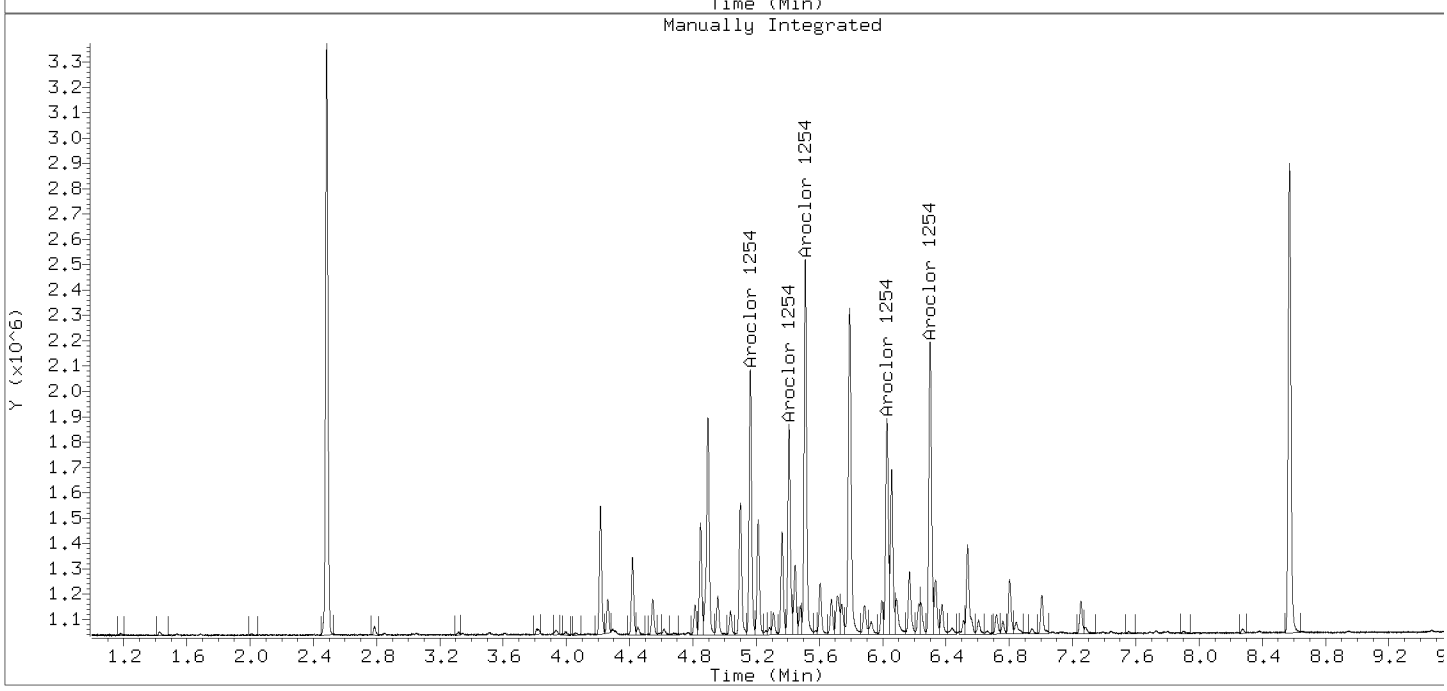
Column phase: ZB-1ms

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

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D
Lab Smp Id: 1254-CAL3C Client Smp ID: 1254-CAL3C
Inj Date : 06-MAR-2018 17:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 26 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	51337	40044	0.780	0.09		
1.429	39957	34317	0.859	0.07		
1.537	17914	13995	0.781	0.03		
1.685	15629	15398	0.985	0.02		
2.011	29599	20853	0.705	0.05		
2.485	6057898	5851038	0.966	12.02		
2.686	9516	7676	0.807	0.01		
2.787	95008	87358	0.919	0.18		
2.851	23819	20877	0.877	0.04		
3.052	13713	14987	1.093	0.02		
3.316	31189	30919	0.991	0.05		
3.344	21096	17017	0.807	0.04		
3.515	29295	21880	0.747	0.05		
3.610	20788	17635	0.848	0.03		
3.728	13013	9960	0.765	0.02		
3.815	75390	52210	0.693	0.14		
3.933	62381	42408	0.680	0.11		
3.996	40445	30149	0.745	0.07		
4.057	24255	18114	0.747	0.04		
4.215	1217908	1150954	0.945	2.32		
4.262	330320	319433	0.967	0.63		
4.292	64830	48630	0.750	0.12		
4.418	748177	726093	0.970	1.42		
4.452	73920	66424	0.899	0.14		
4.545	335088	319422	0.953	0.63		
4.592	16526	15457	0.935	0.03		
4.619	59193	52479	0.887	0.11		
4.685	17734	16983	0.958	0.03		
4.770	20117	19880	0.988	0.03		
4.813	284745	275889	0.969	0.54		
4.849	1084246	1045959	0.965	2.06		
4.895	2405586	1902763	0.791	4.58		
4.957	390371	342893	0.878	0.74		
5.037	238296	218476	0.917	0.45		
5.100	1405616	1219340	0.867	2.68		
5.164	2560293	2304428	0.900	4.88	7 Aroclor 1254	BA
5.213	1173729	1059080	0.902	2.23		

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

Total unknown % area = 73

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D
Lab Smp Id: 1254-CAL3C Client Smp ID: 1254-CAL3C
Inj Date : 06-MAR-2018 17:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 26 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.163	5.162	0.001	2560292	0.50000	0.49	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	2112521	0.50000	0.49	0.00- 20.00	82.51	BA
5.510	5.510	0.000	3811784	0.50000	0.49	0.00- 20.00	148.88	BA
6.026	6.027	-0.001	2413214	0.50000	0.50	0.00- 20.00	94.26	BA
6.299	6.299	0.000	3184409	0.50000	0.49	0.00- 20.00	124.38	BA
Average of Peak Amounts =					0.49200			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D

Date : 06-MAR-2018 17:30

Client ID: 1254-CAL3C

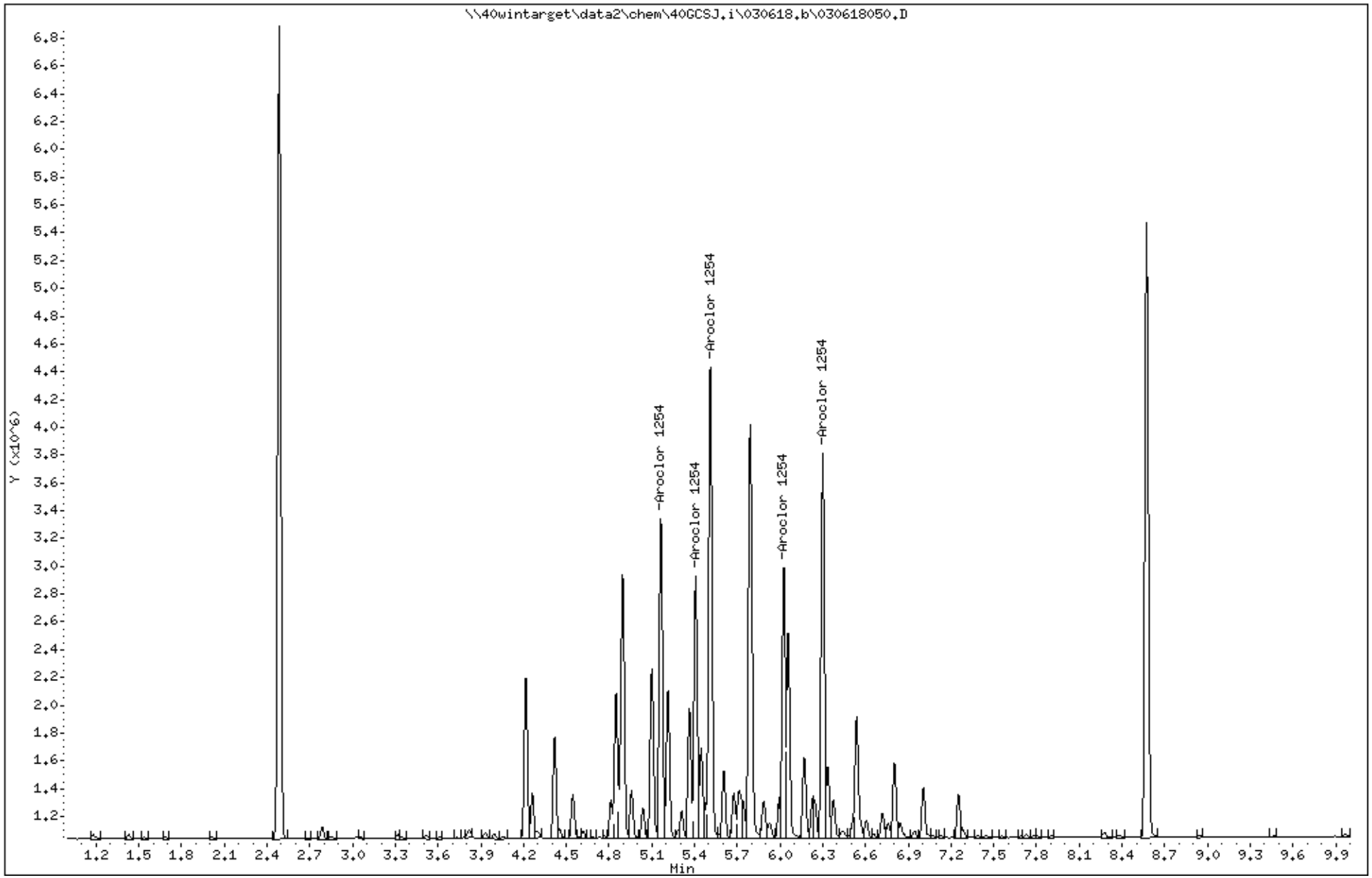
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

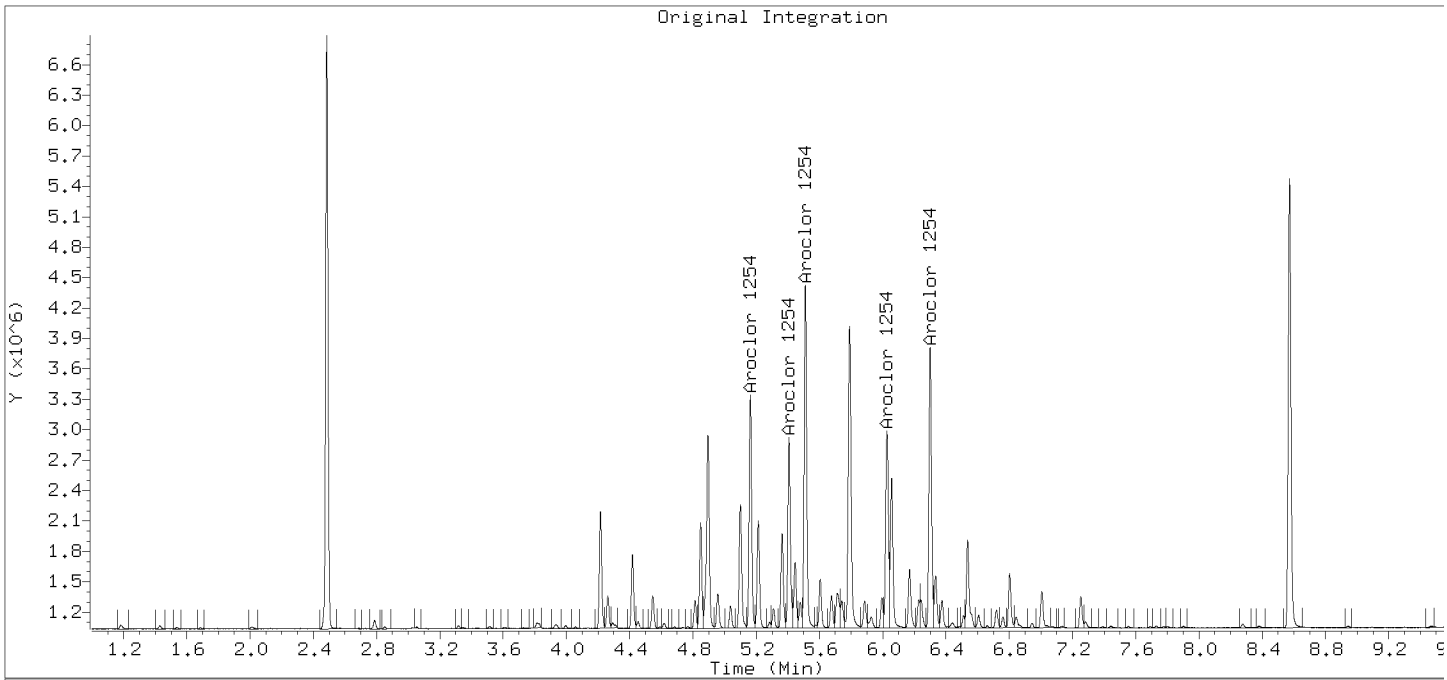
Operator: BLM

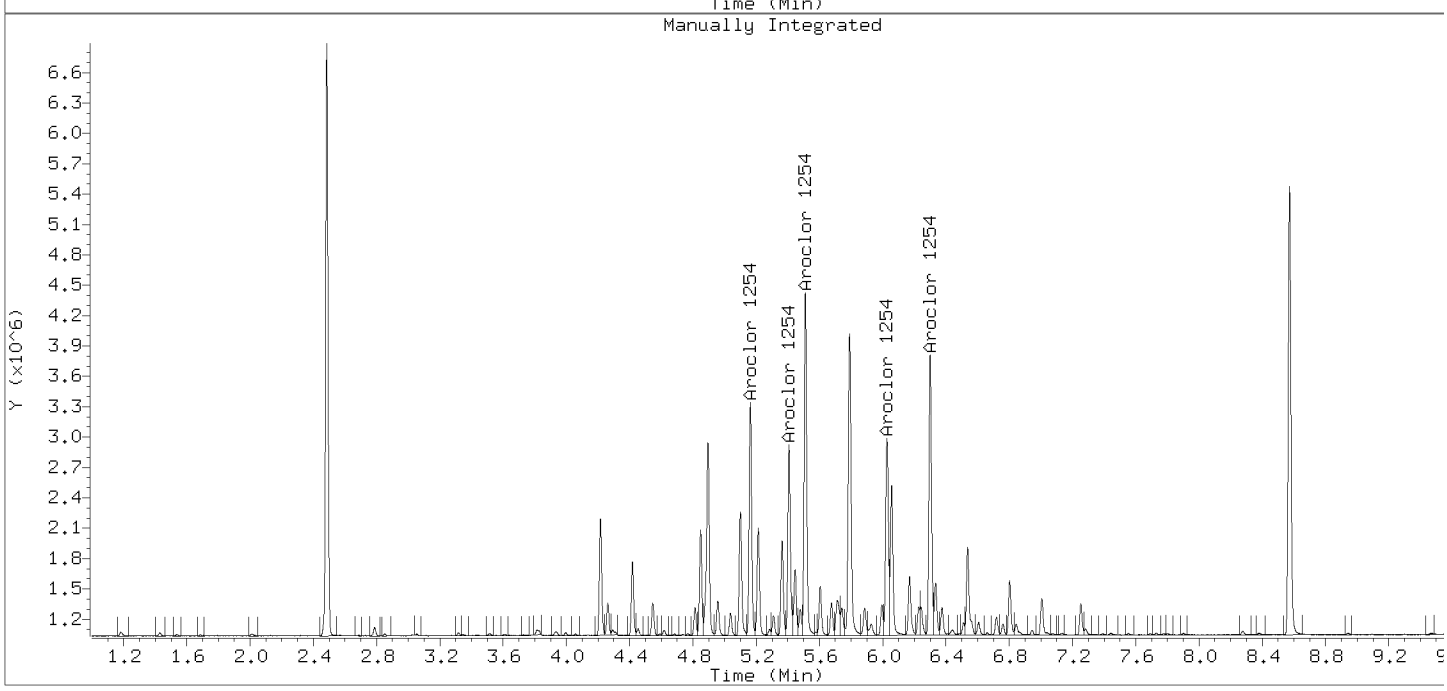
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Lab Smp Id: 1254-CAL4C Client Smp ID: 1254-CAL4C
Inj Date : 06-MAR-2018 17:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:46 Cal File: 030618052.D
Als bottle: 27 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	20338	17643	0.867	0.02		
1.428	65922	60336	0.915	0.07		
1.538	31776	24460	0.770	0.03		
2.485	11777090	11571932	0.983	14.42		
2.787	164077	161759	0.986	0.19		
2.852	35610	28522	0.801	0.04		
3.052	34848	31099	0.892	0.04		
3.318	49721	48315	0.972	0.05		
3.345	27672	27798	1.005	0.03		
3.434	12631	8647	0.685	0.01		
3.512	47159	33510	0.711	0.05		
3.609	31888	32717	1.026	0.03		
3.732	12093	11883	0.983	0.01		
3.757	10828	11345	1.048	0.01		
3.814	107287	73196	0.682	0.12		
3.934	94015	65238	0.694	0.11		
3.996	37751	35743	0.947	0.04		
4.059	25966	21513	0.829	0.03		
4.136	10670	12088	1.133	0.01		
4.215	1826293	1728963	0.947	2.16		
4.262	495863	484615	0.977	0.58		
4.293	82438	62200	0.755	0.09		
4.418	1148007	1108250	0.965	1.35		
4.454	124829	105675	0.847	0.14		
4.545	520797	506348	0.972	0.61		
4.592	22494	21617	0.961	0.02		
4.617	91512	86993	0.951	0.10		
4.682	29611	23905	0.807	0.03		
4.738	13639	11326	0.830	0.01		
4.768	31653	29681	0.938	0.03		
4.813	436264	431646	0.989	0.51		
4.848	1661944	1593892	0.959	1.96		
4.895	3639982	2884202	0.792	4.30		
4.958	608805	546410	0.898	0.72		
5.038	362095	340028	0.939	0.42		
5.100	2123049	1825949	0.860	2.51		
5.163	3886482	3507162	0.902	4.59	7 Aroclor 1254	BA

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Lab Smp Id: 1254-CAL4C Client Smp ID: 1254-CAL4C
Inj Date : 06-MAR-2018 17:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:46 Cal File: 030618052.D
Als bottle: 27 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	3886481	0.80000	0.74	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	3251705	0.80000	0.76	0.00- 20.00	83.67	BA
5.509	5.510	-0.001	5821617	0.80000	0.75	0.00- 20.00	149.79	BA
6.027	6.027	0.000	3710615	0.80000	0.76	0.00- 20.00	95.47	BA
6.299	6.299	0.000	4897867	0.80000	0.75	0.00- 20.00	126.02	BA
Average of Peak Amounts =					0.75200			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D

Date : 06-MAR-2018 17:46

Client ID: 1254-CAL4C

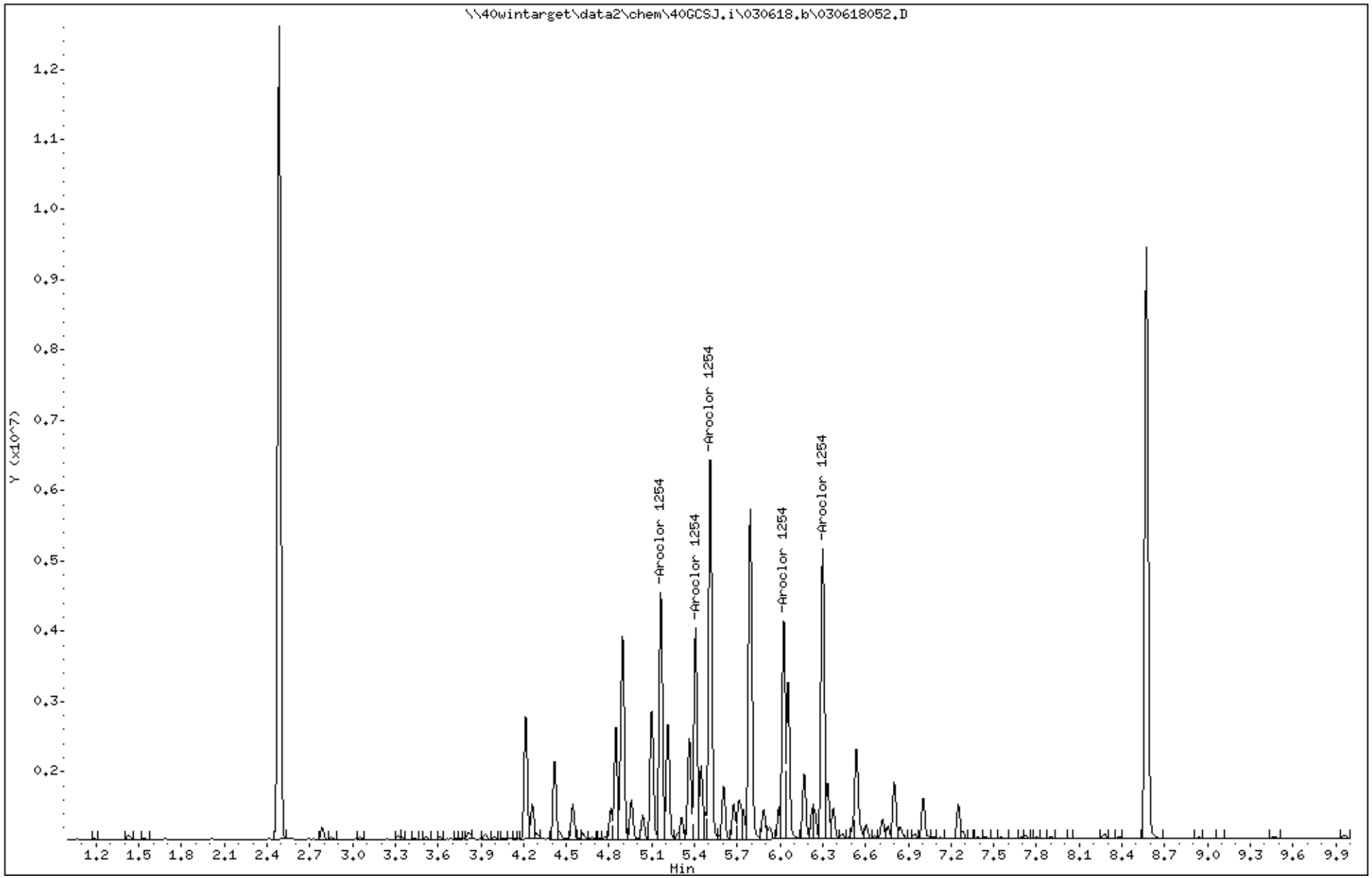
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

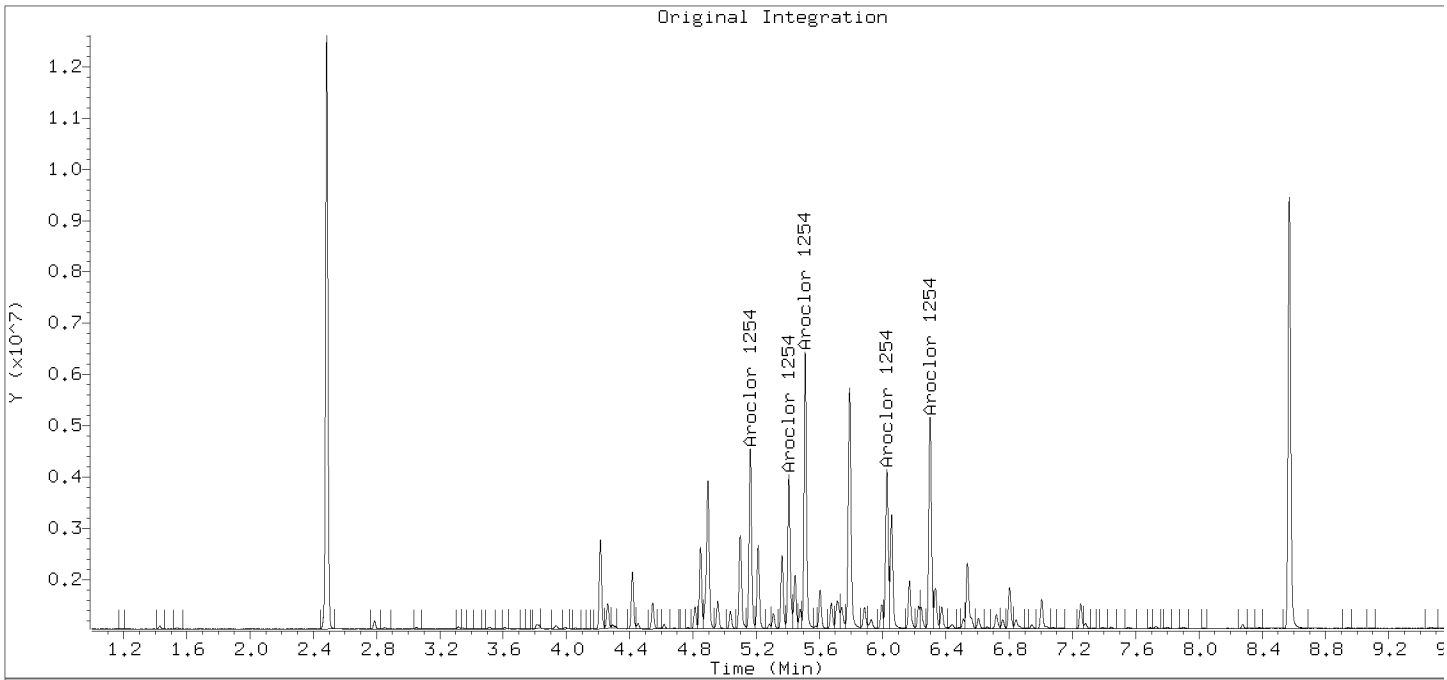
Operator: BLM

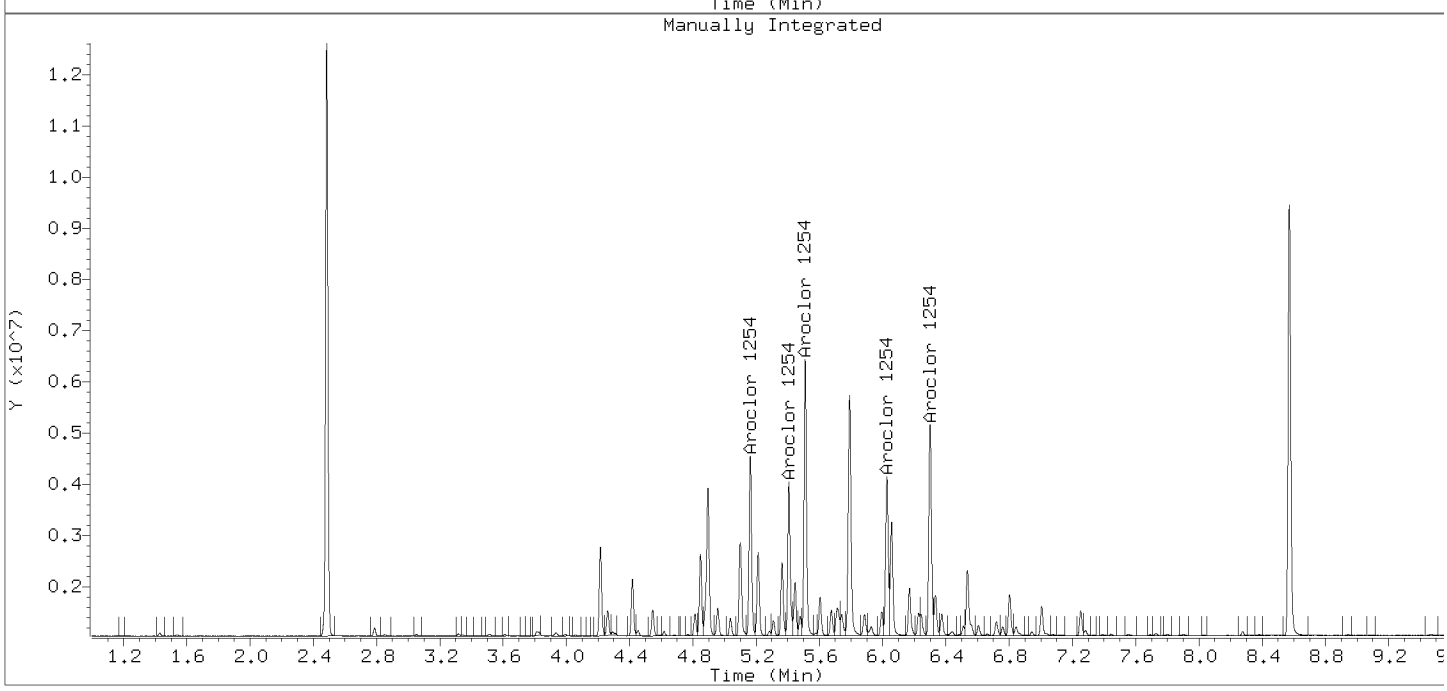
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Lab Smp Id: 1254-CAL5C Client Smp ID: 1254-CAL5C
Inj Date : 06-MAR-2018 18:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:02 Cal File: 030618054.D
Als bottle: 28 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	15243	11962	0.785	0.01		
1.428	96747	89041	0.920	0.08		
1.540	40825	35144	0.861	0.03		
1.682	9327	8894	0.954	0.00		
2.008	10288	9685	0.941	0.00		
2.412	10350	7112	0.687	0.00		
2.485	17725886	17260144	0.974	16.66		
2.787	243100	236365	0.972	0.22		
2.851	36673	32993	0.900	0.03		
3.053	49195	43436	0.883	0.04		
3.319	55642	53004	0.953	0.05		
3.344	37001	30263	0.818	0.03		
3.514	61454	41534	0.676	0.05		
3.611	48883	46459	0.950	0.04		
3.734	9700	13664	1.409	0.00		
3.755	14530	9896	0.681	0.01		
3.814	160653	100699	0.627	0.14		
3.935	113785	77754	0.683	0.10		
3.993	48360	45579	0.942	0.04		
4.058	31144	26153	0.840	0.02		
4.136	14642	14082	0.962	0.01		
4.215	2246411	2105306	0.937	2.04		
4.262	624542	621927	0.996	0.56		
4.292	114086	82473	0.723	0.10		
4.418	1403386	1353229	0.964	1.27		
4.453	133440	127351	0.954	0.12		
4.546	635904	613877	0.965	0.57		
4.594	11699	17033	1.456	0.01		
4.617	92187	94751	1.028	0.08		
4.683	32935	28854	0.876	0.03		
4.735	16261	13245	0.815	0.01		
4.770	37428	36501	0.975	0.03		
4.814	542039	547513	1.010	0.49		
4.848	2045079	1950354	0.954	1.86		
4.896	4464777	3447952	0.772	4.07		
4.957	749670	674930	0.900	0.68		
5.037	447740	427307	0.954	0.40		

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Lab Smp Id: 1254-CAL5C Client Smp ID: 1254-CAL5C
Inj Date : 06-MAR-2018 18:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:02 Cal File: 030618054.D
Als bottle: 28 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.163	5.162	0.001	4761607	1.00000	0.91	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	4016994	1.00000	0.93	0.00- 20.00	84.36	BA
5.510	5.510	0.000	7207530	1.00000	0.93	0.00- 20.00	151.37	BA
6.027	6.027	0.000	4591491	1.00000	0.94	0.00- 20.00	96.43	BA
6.299	6.299	0.000	6047377	1.00000	0.93	0.00- 20.00	127.00	BA
Average of Peak Amounts =					0.92800			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

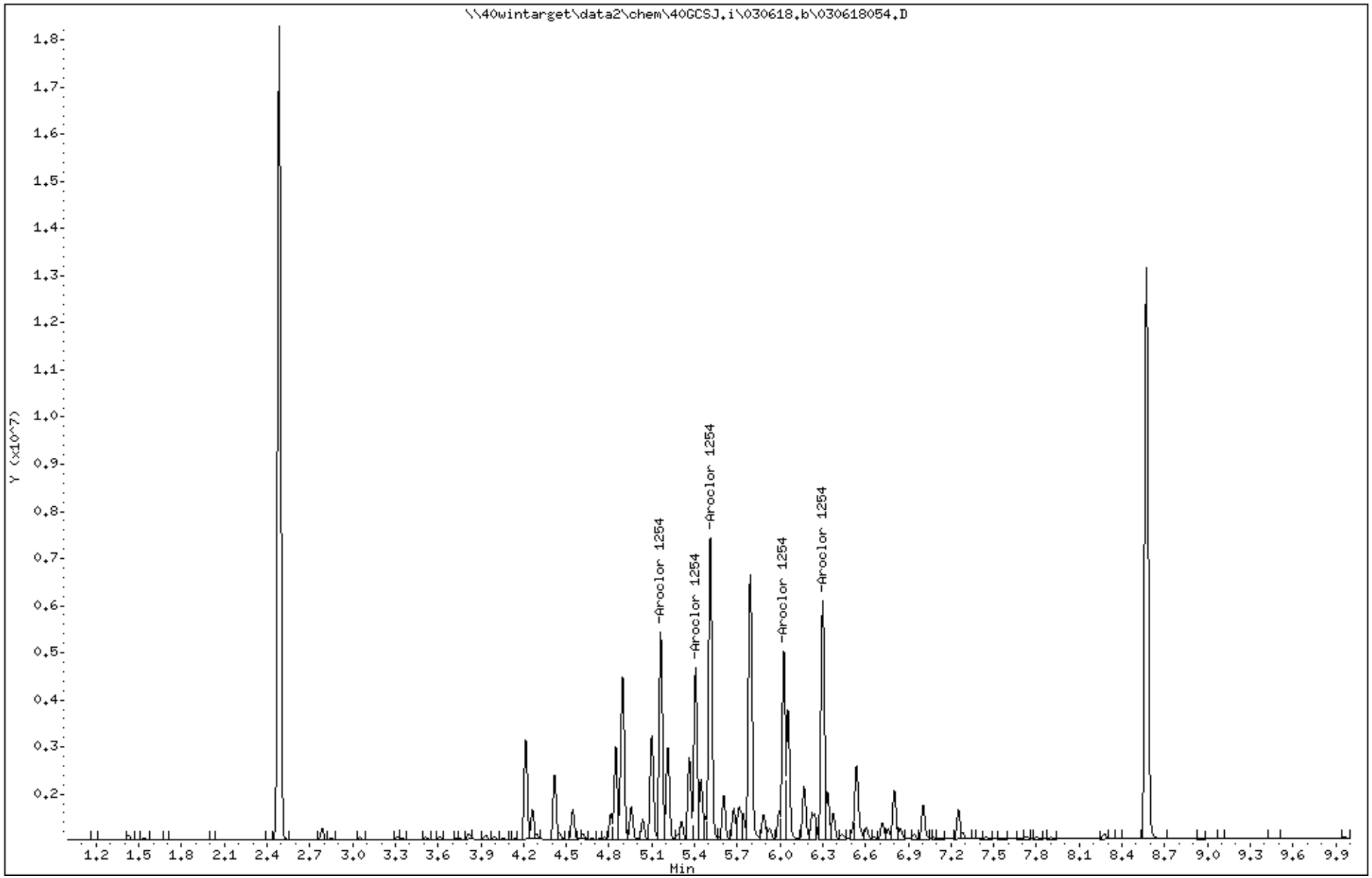
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Date : 06-MAR-2018 18:02
Client ID: 1254-CAL5C
Sample Info: 1254-CAL5C, 185556:1

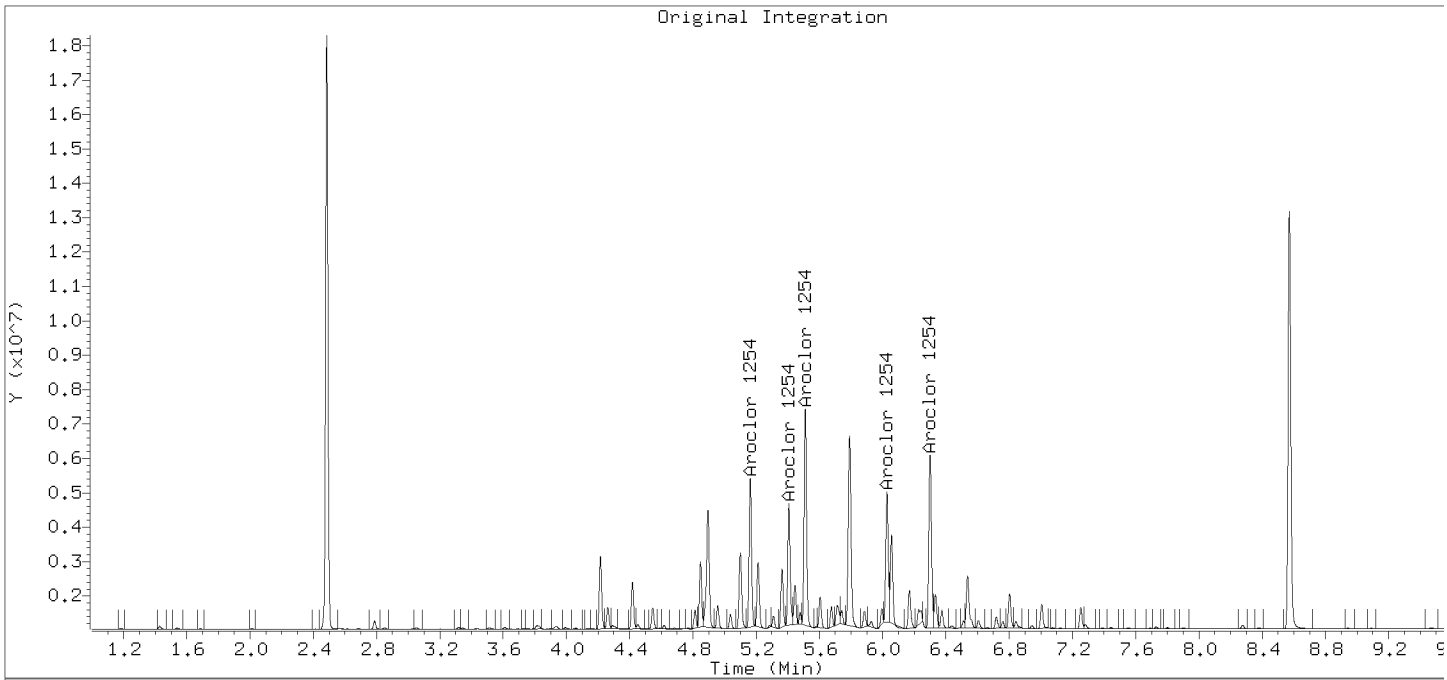
Column phase: ZB-1ms

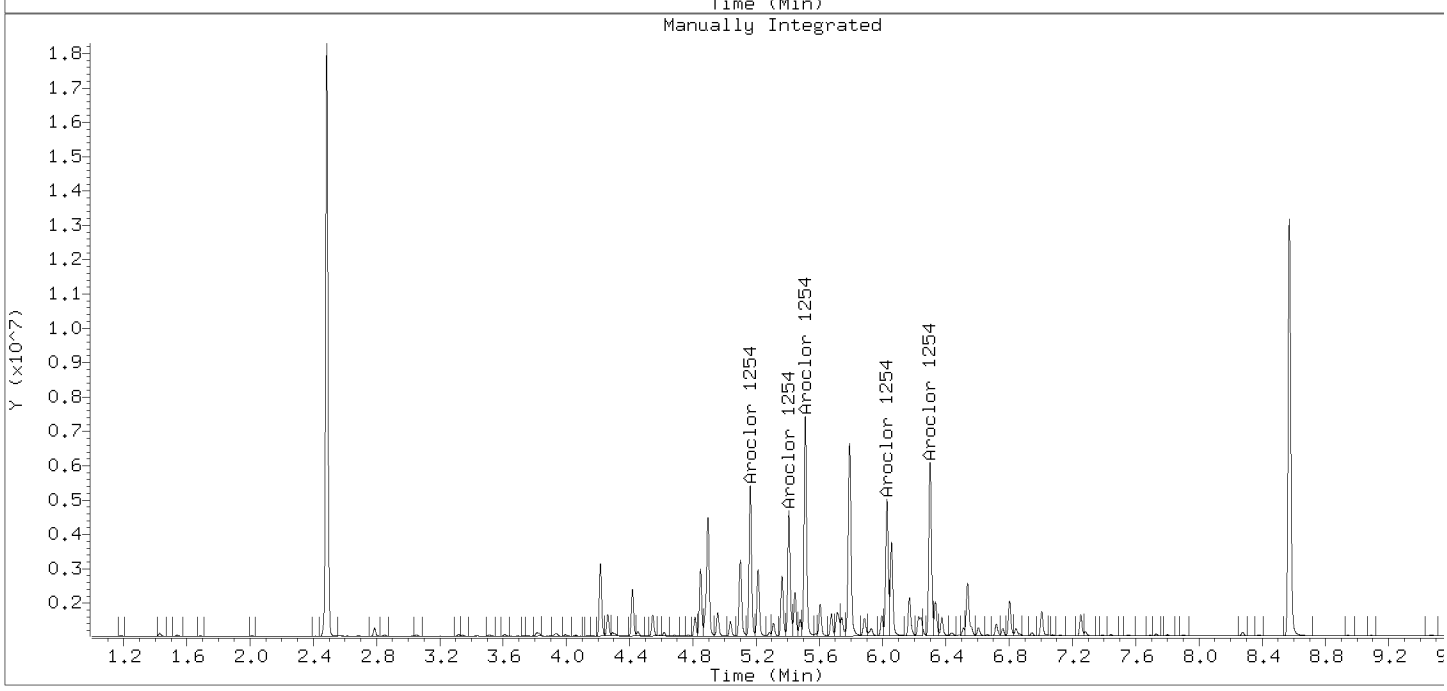
Instrument: 40GCSJ.i

Operator: BLM
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

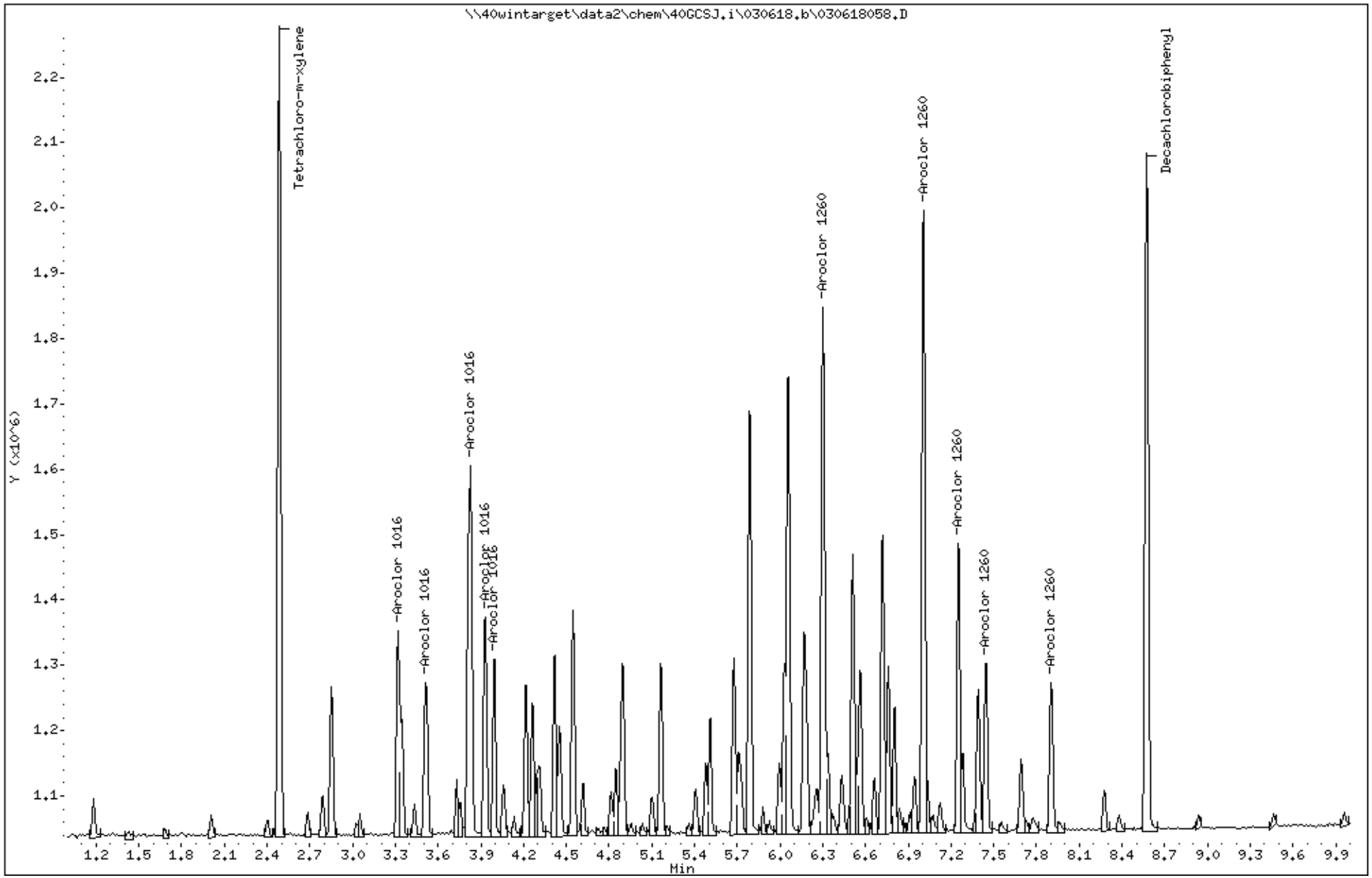
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

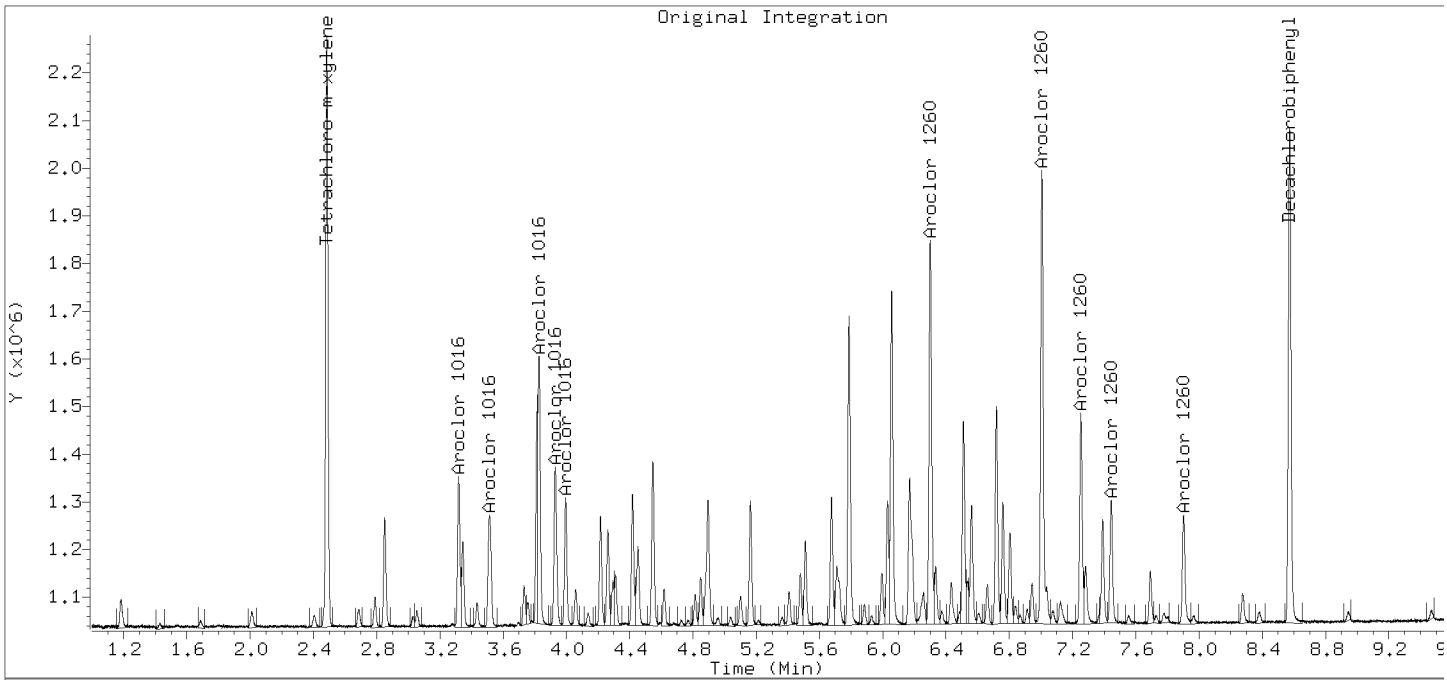
Operator: BLM

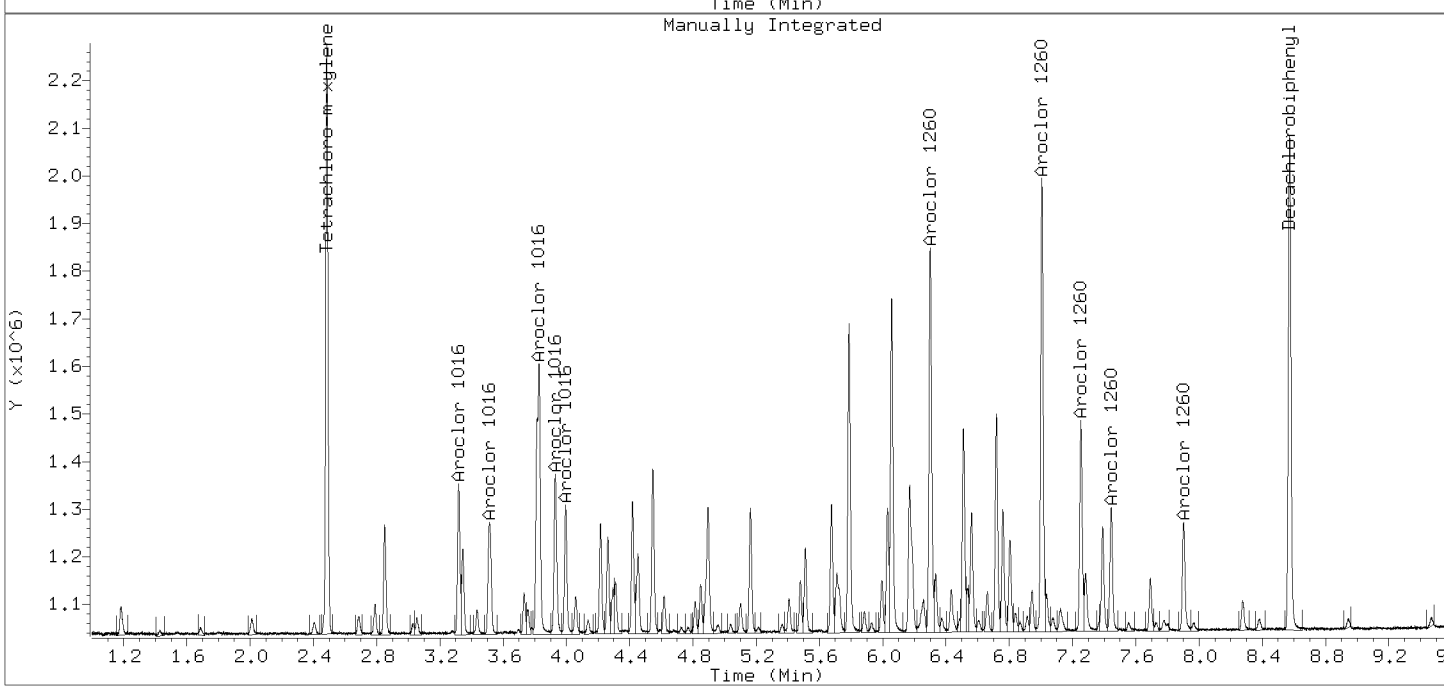
Column phase: ZB-1ms

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

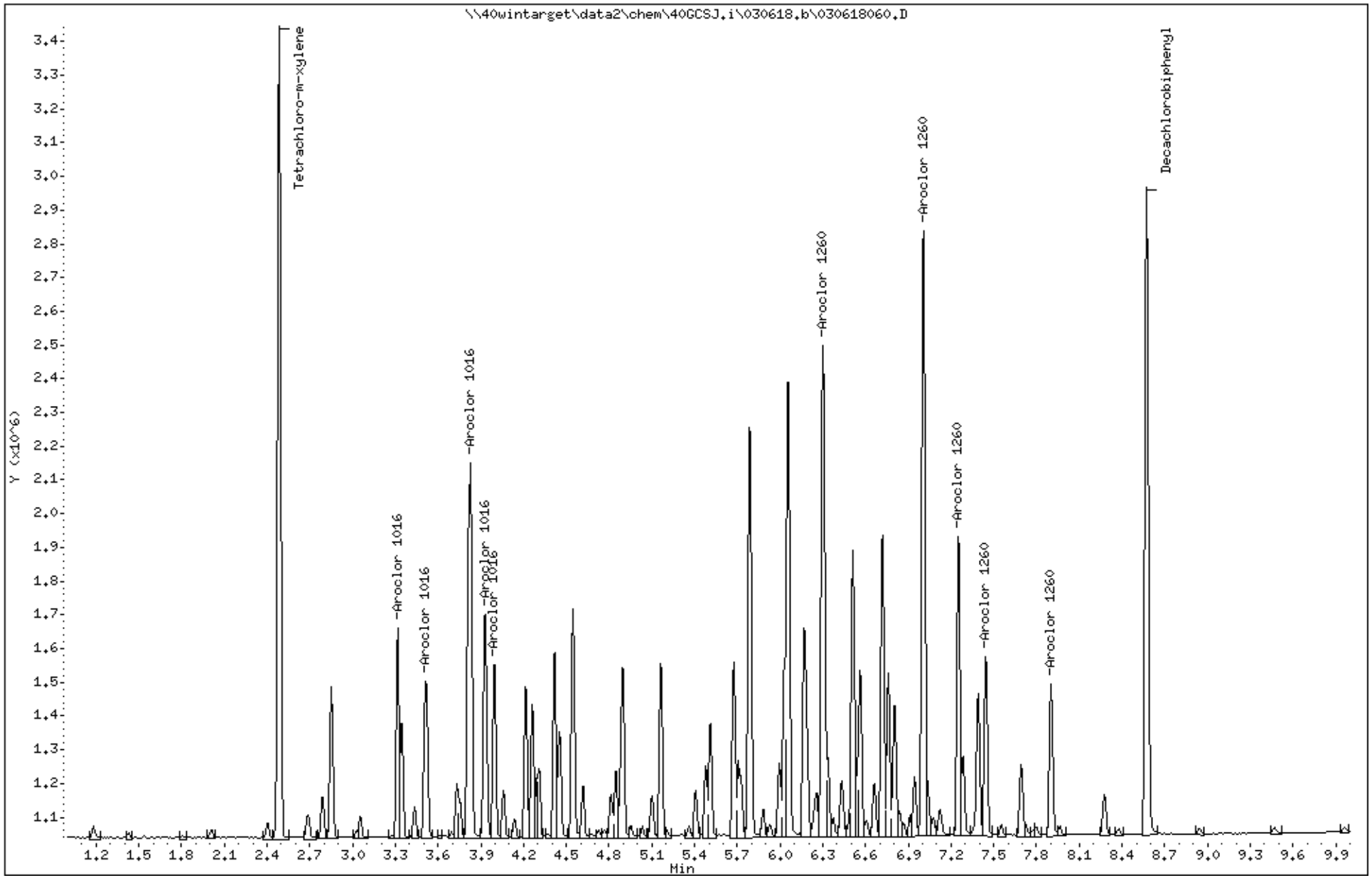
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

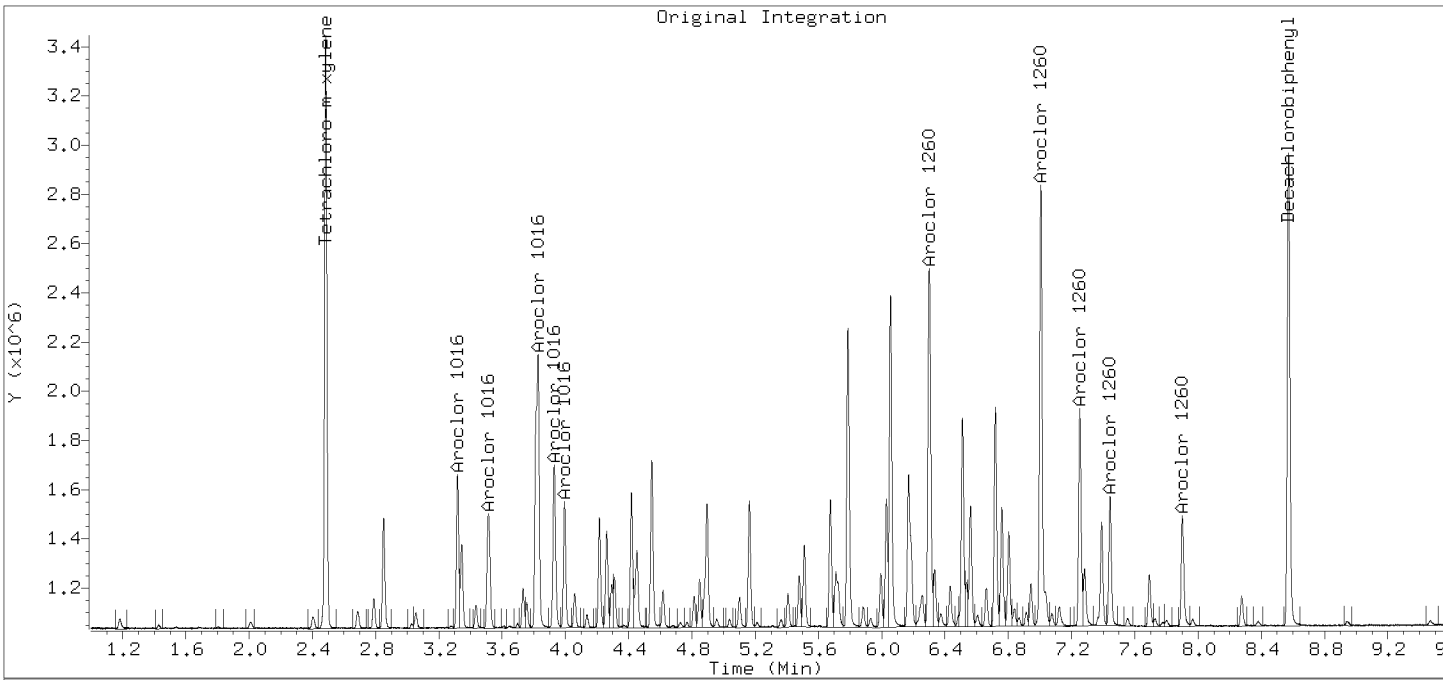
Operator: BLM

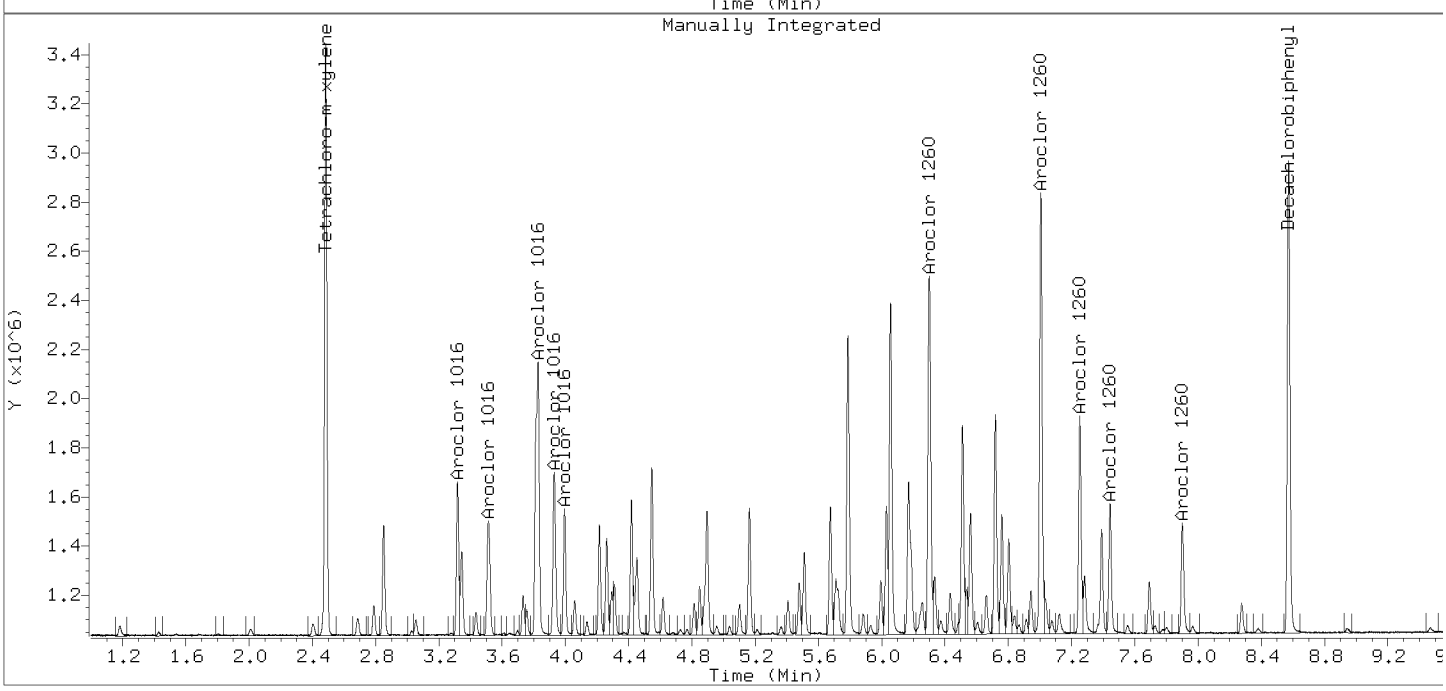
Column phase: ZB-1ms

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.

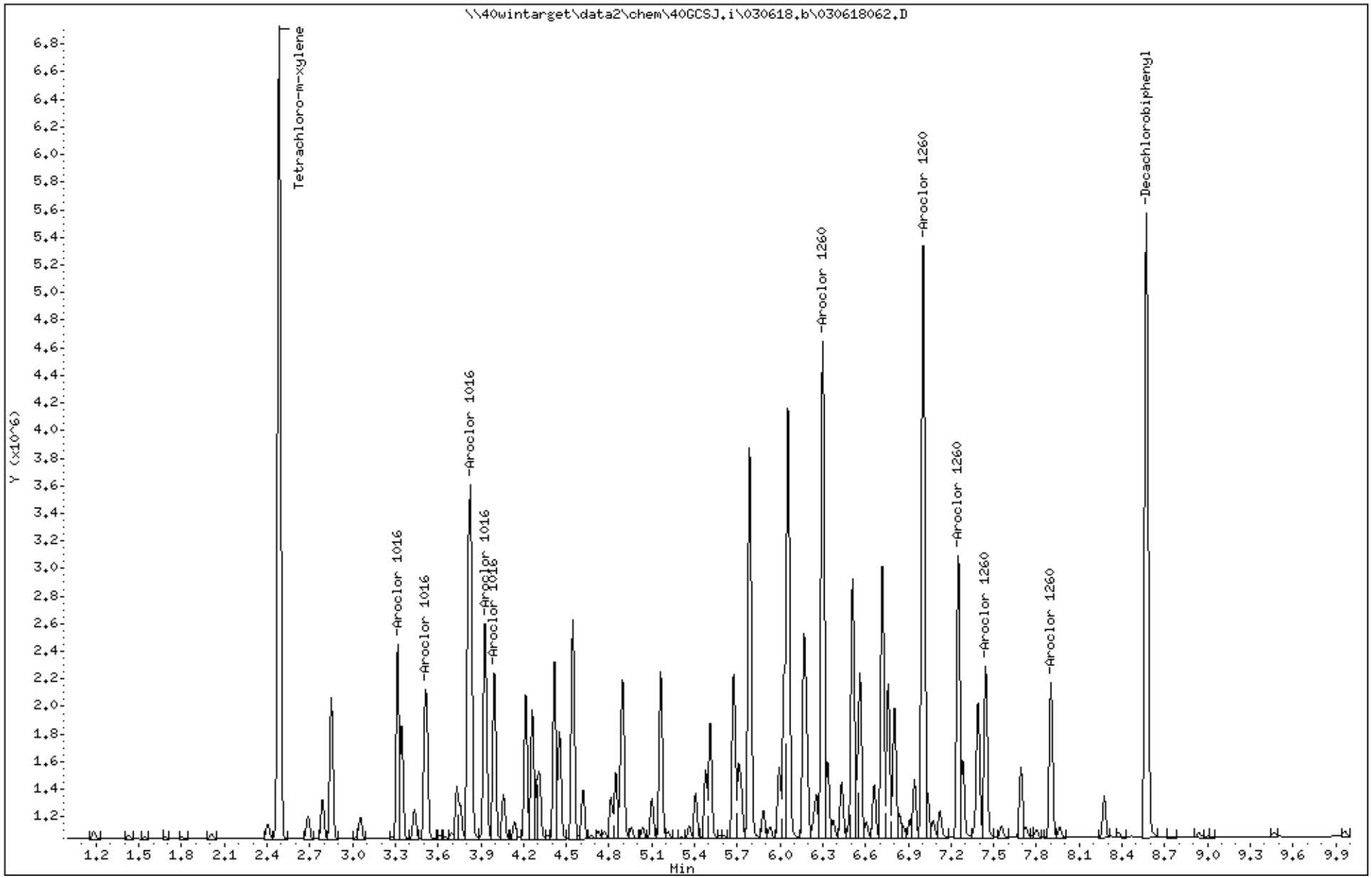
QC Flag Legend

Review Codes Legend

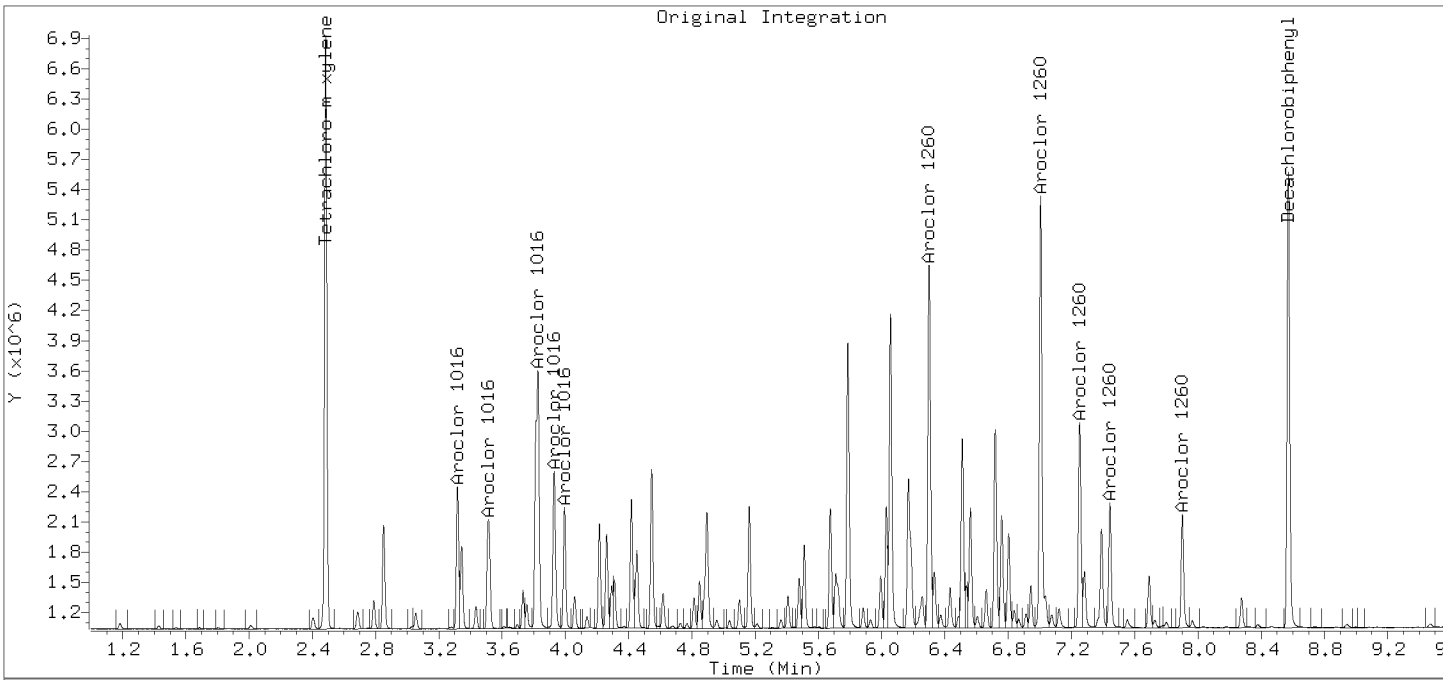
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

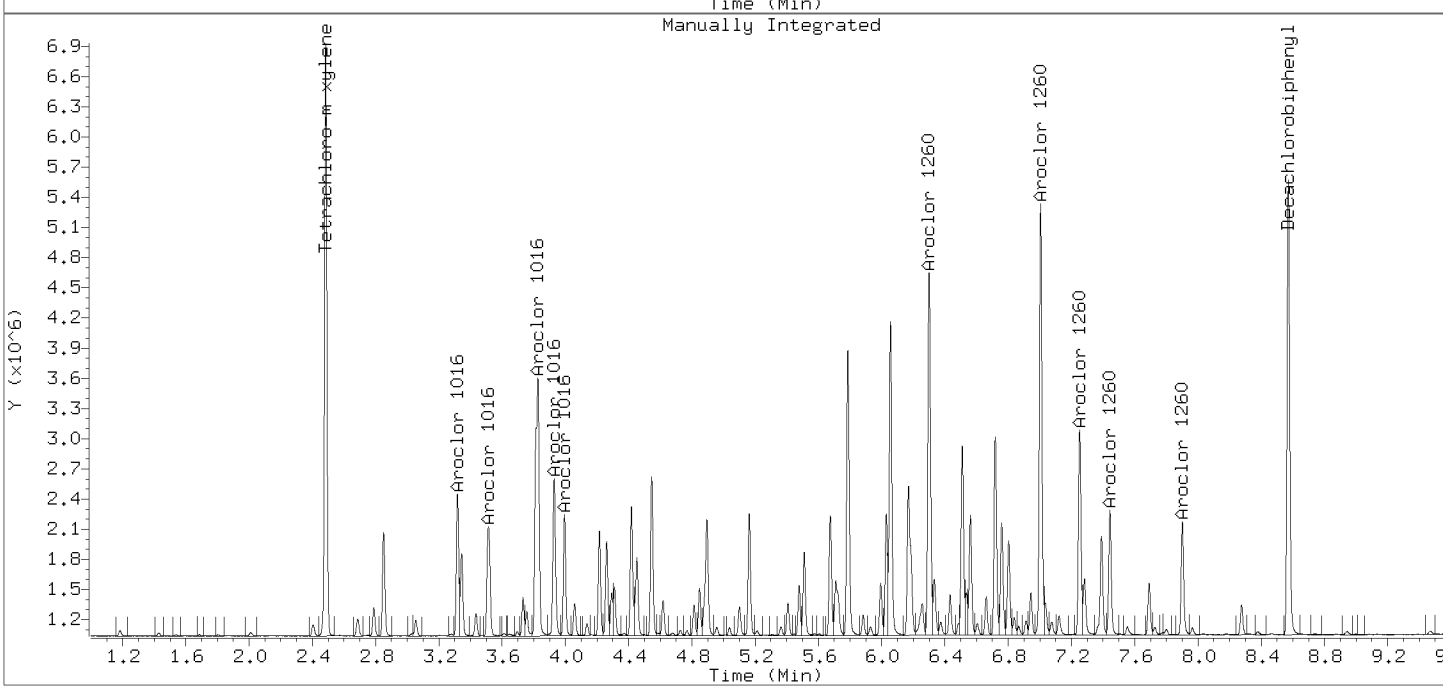
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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

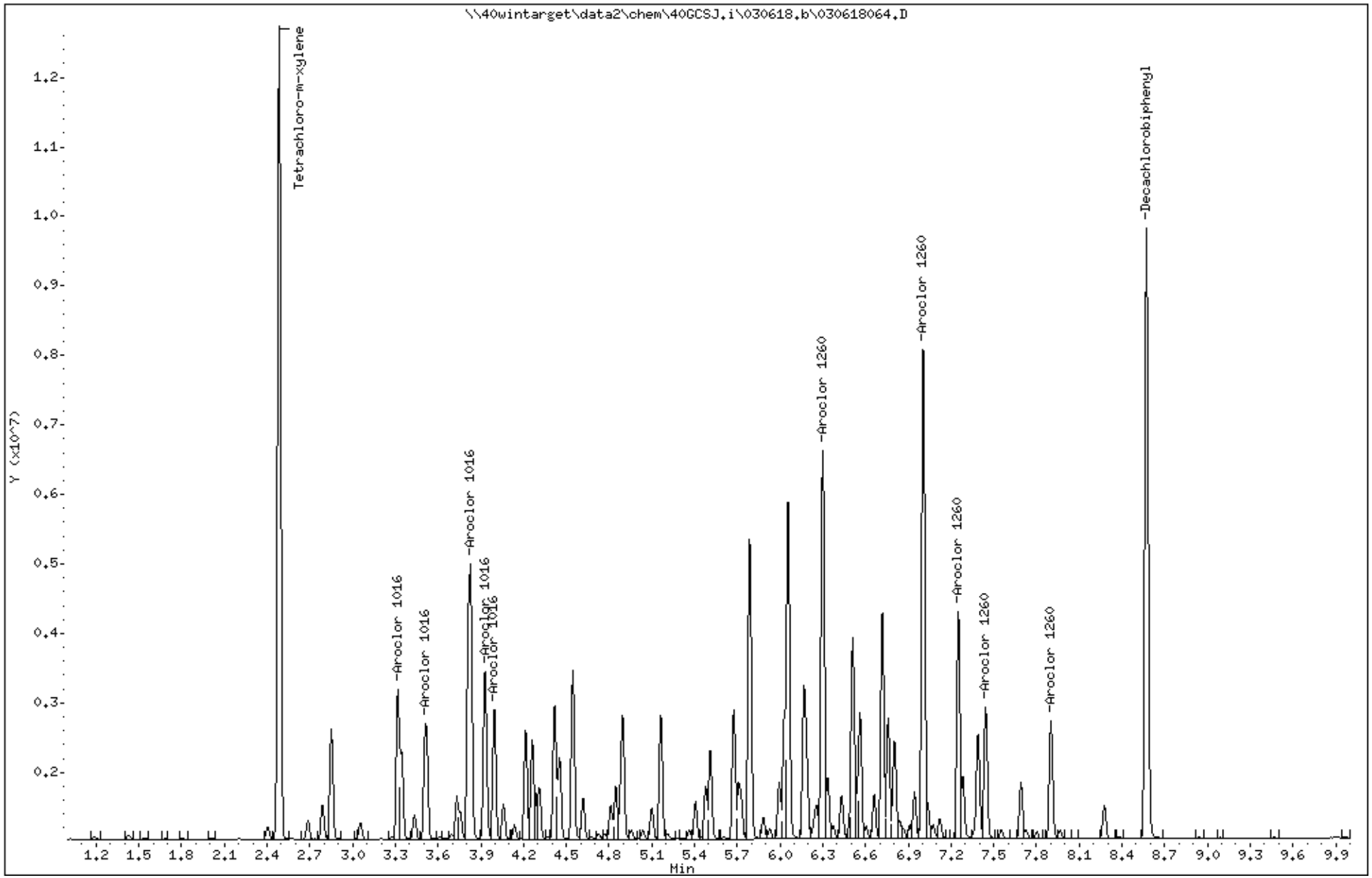
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

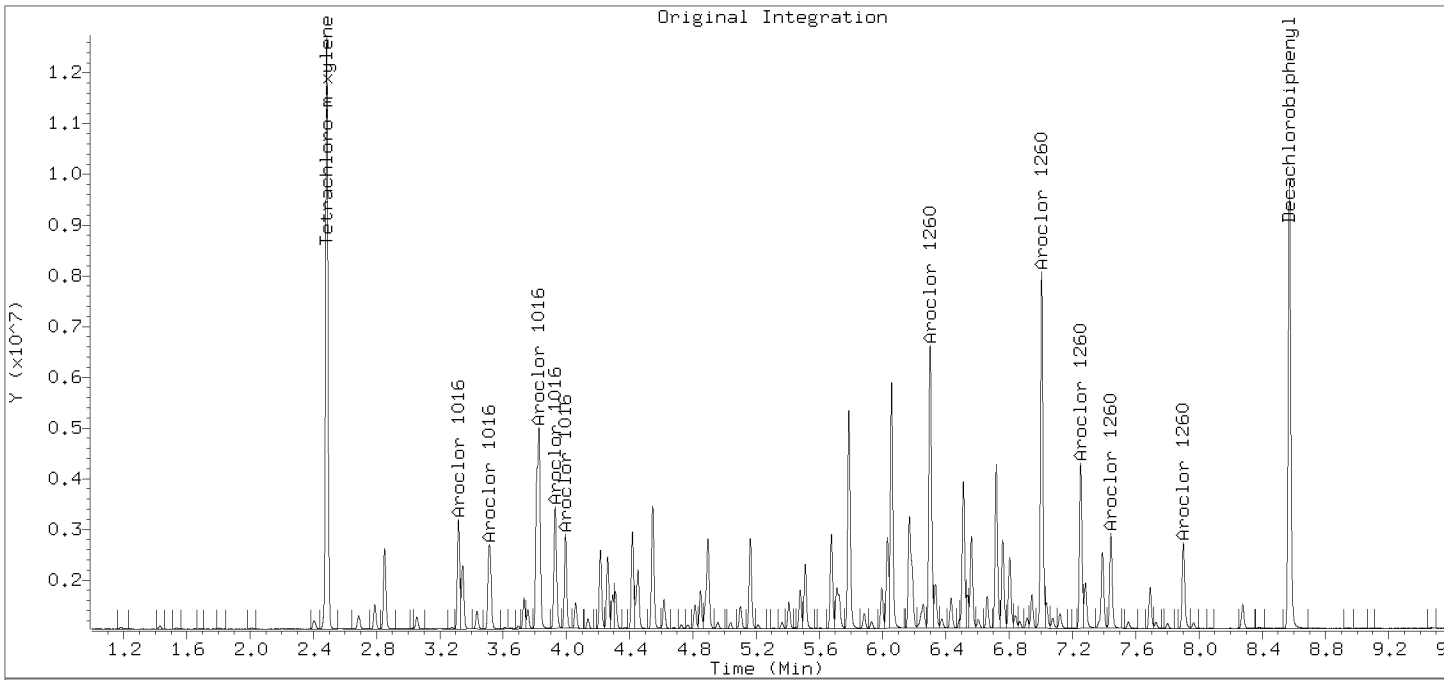
Operator: BLM

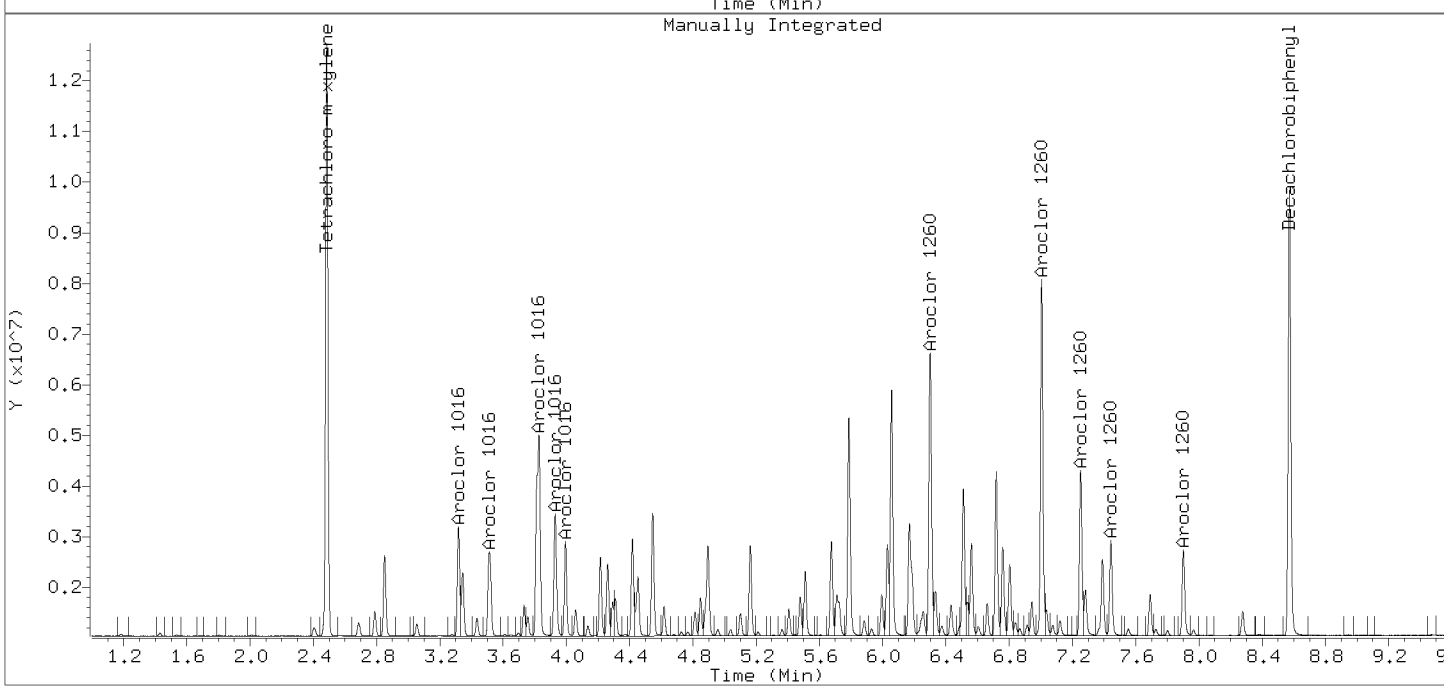
Column phase: ZB-1ms

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

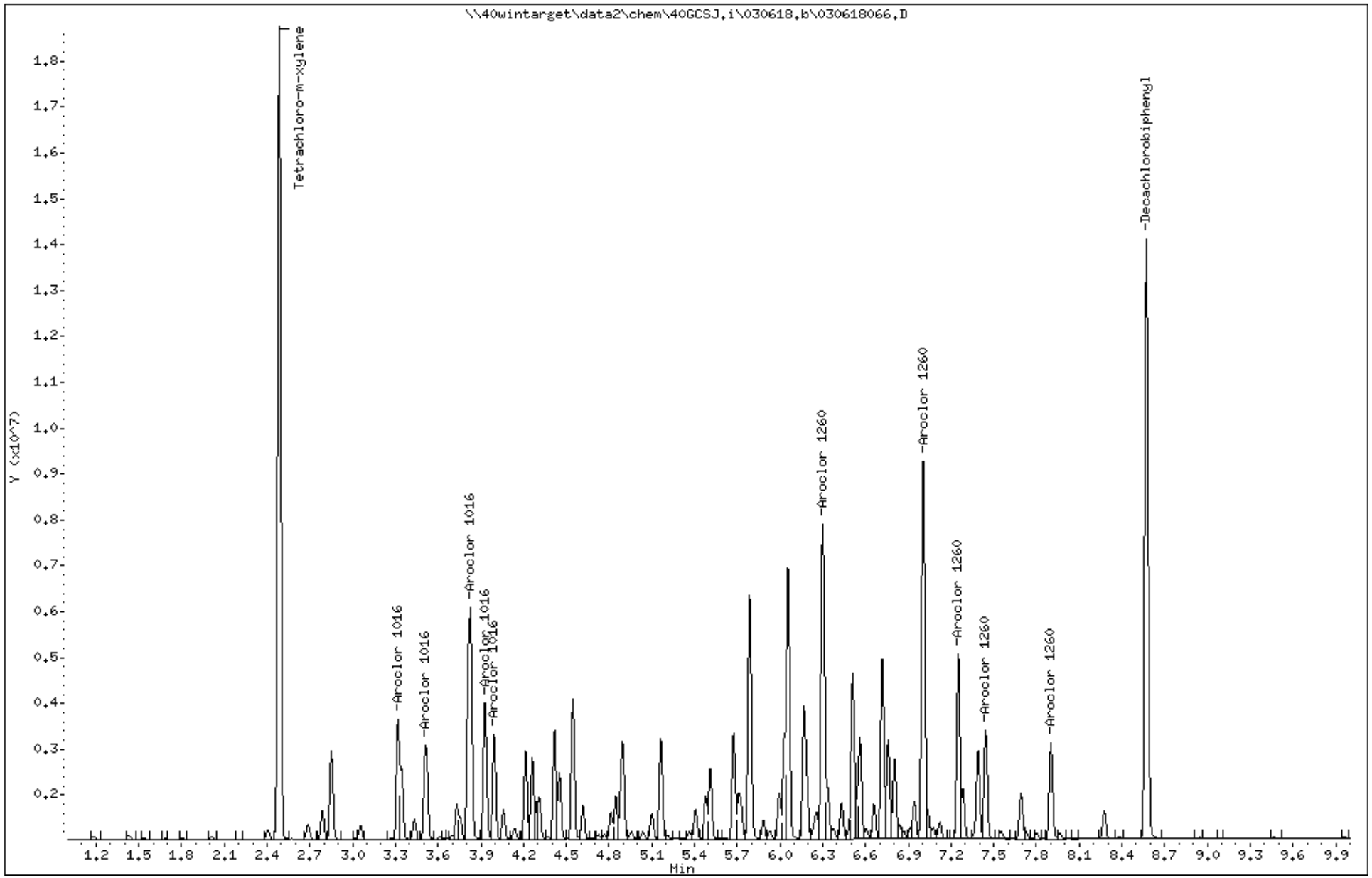
M - Compound response manually integrated.

Review Codes Legend

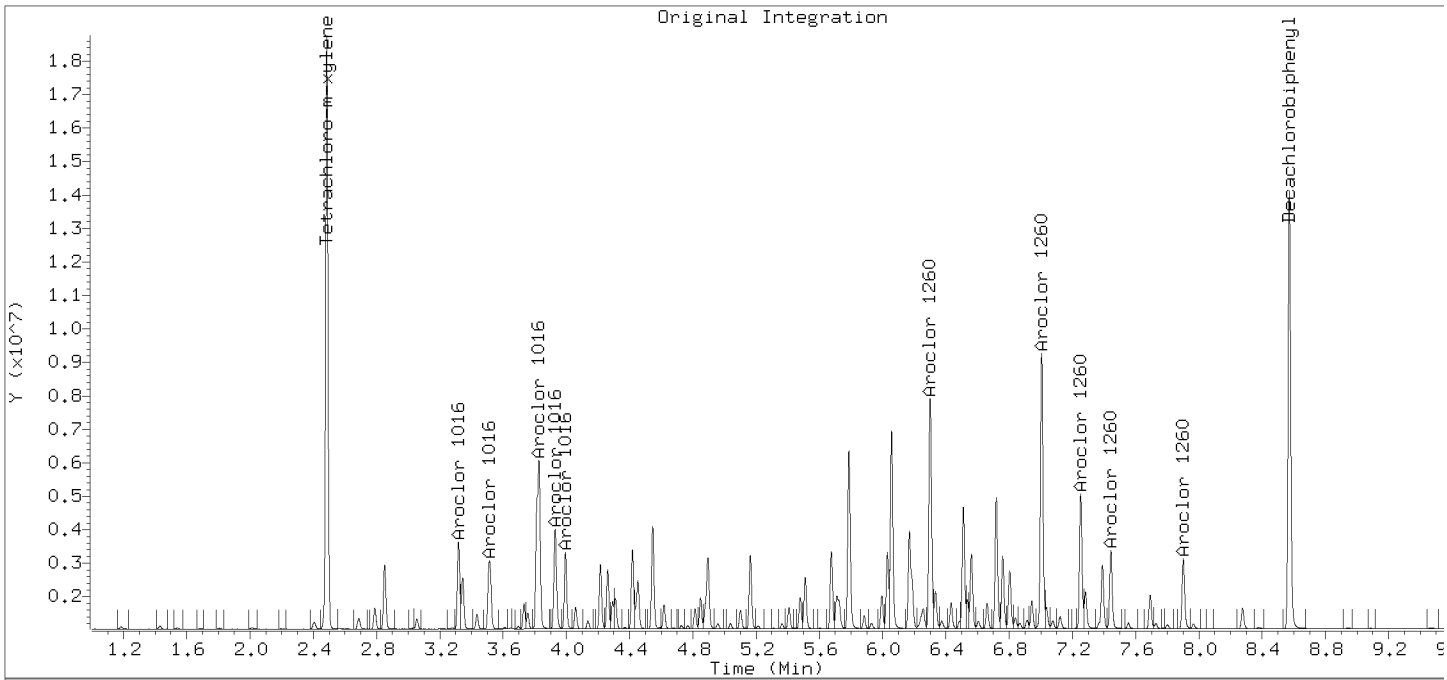
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

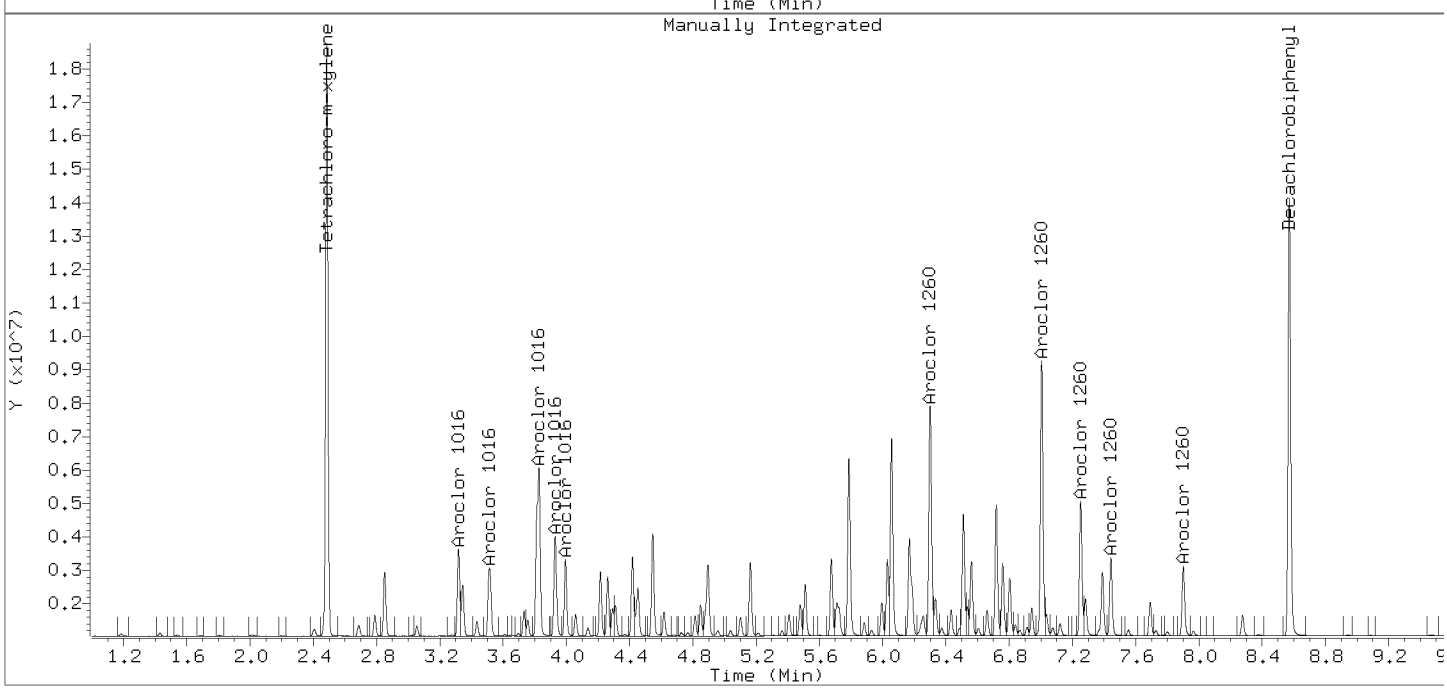
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Date : 06-MAR-2018 19:39
Client ID: 1660-CAL5A
Sample Info: 1660-CAL5A, 185561:1

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.: 40157698

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.: 40157698

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.: 40157698

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.: 40157698

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.: 40157698

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.

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.: 40157698

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.: 40157698

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.

SAMPLE NO.

10896360CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/11/2018 Time: 20:36

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

Lab File ID: 041118.B\041118027.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157698

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	2807096.00	12.2828
Aroclor 1232	2	Averaged	3.513	3.479	3.547	1339782.00	1462730.00	9.1767
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	4218376.00	12.4982
Aroclor 1232	4	Averaged	3.928	3.895	3.963	1606492.00	1808180.00	12.5546
Aroclor 1232	5	Averaged	3.993	3.961	4.029	1091876.00	1197056.00	9.6330
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	112847160.	3.0003
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	123601240.	0.2483

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

SAMPLE NO.

10900691CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/13/2018 Time: 14:33

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

Lab File ID: 041318.B\041318004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157698

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	3554572.00	15.3771
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3552538.00	14.6349
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	10089424.0	13.8532
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	4311960.00	14.0663
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2891374.00	11.0636
Aroclor 1260	1	Averaged	6.299	6.266	6.334	8862352.50	10126960.0	14.2694
Aroclor 1260	2	Averaged	7.004	6.972	7.04	10014373.3	11517452.0	15.0092
Aroclor 1260	3	Averaged	7.25	7.217	7.285	4779803.15	5468054.00	14.3991
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	3406364.00	16.8520
Aroclor 1260	5	Averaged	7.898	7.867	7.935	2638735.95	3028976.00	14.7889
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	127639880.	16.5023
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	141420860.	14.7011

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

SAMPLE NO.

10900696CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/13/2018 Time: 17:43

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

Lab File ID: 041318.B\041318016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157698

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	1047946.00	0.6424
Aroclor 1221	2	Averaged	2.406	2.373	2.441	547842.900	547976.000	0.0243
Aroclor 1221	3	Averaged	2.687	2.654	2.722	1383336.70	1431008.00	3.4461
Aroclor 1221	4	Averaged	2.788	2.755	2.823	1105769.55	1119668.00	1.2569
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3436568.00	5.5652
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	112176180.	2.3879
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	123672060.	0.3057

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

SAMPLE NO.

10901015CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/13/2018 Time: 20:53

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

Lab File ID: 041318.B\041318028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157698

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	2762406.00	10.4952
Aroclor 1232	2	Averaged	3.512	3.479	3.547	1339782.00	1435340.00	7.1324
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	4175178.00	11.3462
Aroclor 1232	4	Averaged	3.928	3.895	3.963	1606492.00	1767726.00	10.0364
Aroclor 1232	5	Averaged	3.993	3.961	4.029	1091876.00	1180628.00	8.1284
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	112726760.	2.8904
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	121487600.	-1.4660

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

SAMPLE NO.

10901018CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/17/2018 Time: 11:55

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

Lab File ID: 041718.B\041718004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157698

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	2412524.00	2.9685
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4175266.00	0.6014
Aroclor 1248	3	Averaged	4.813	4.778	4.846	2030080.20	1966546.00	-3.1296
Aroclor 1248	4	Averaged	4.879	4.845	4.913	5037445.65	5017134.00	-0.4032
Aroclor 1248	5	Averaged	5.037	5.004	5.072	3588546.15	3481140.00	-2.9930
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	107535960.	-1.8474
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	123934180.	0.5183

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

SAMPLE NO.

10901017CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/17/2018 Time: 15:06

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

Lab File ID: 041718.B\041718016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157698

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	5610298.00	7.1640
Aroclor 1254	2	Averaged	5.405	5.374	5.442	4301054.45	4652514.00	8.1715
Aroclor 1254	3	Averaged	5.508	5.476	5.544	7766063.85	8357354.00	7.6138
Aroclor 1254	4	Averaged	6.025	5.993	6.061	4869683.55	5261430.00	8.0446
Aroclor 1254	5	Averaged	6.297	6.265	6.333	6507103.75	7041646.00	8.2147
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	115226100.	5.1717
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	131114480.	6.3420

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

SAMPLE NO.

10901533CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/17/2018 Time: 18:16

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

Lab File ID: 041718.B\041718028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157698

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	3178032.00	3.1550
Aroclor 1016	2	Averaged	3.512	3.478	3.546	3099002.40	3180168.00	2.6191
Aroclor 1016	3	Averaged	3.825	3.792	3.86	8861786.20	9163928.00	3.4095
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3919632.00	3.6878
Aroclor 1016	5	Averaged	3.993	3.96	4.028	2603349.30	2625632.00	0.8559
Aroclor 1260	1	Averaged	6.298	6.266	6.334	8862352.50	9191874.00	3.7182
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	10427812.0	4.1285
Aroclor 1260	3	Averaged	7.25	7.217	7.285	4779803.15	5013410.00	4.8874
Aroclor 1260	4	Averaged	7.441	7.409	7.477	2915110.60	3040470.00	4.3003
Aroclor 1260	5	Averaged	7.899	7.867	7.935	2638735.95	2760336.00	4.6083
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	113220300.	3.3409
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	125783020.	2.0179

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

SAMPLE NO.

10901623CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/18/2018 Time: 13:13

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

Lab File ID: 041818.B\041818004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157698

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	2869804.00	14.7911
Aroclor 1232	2	Averaged	3.512	3.479	3.547	1339782.00	1515160.00	13.0900
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	4278272.00	14.0956
Aroclor 1232	4	Averaged	3.929	3.895	3.963	1606492.00	1832262.00	14.0536
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1199342.00	9.8423
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	114990040.	4.9562
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	130121160.	5.5364

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

SAMPLE NO.

10901622CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/18/2018 Time: 16:24

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

Lab File ID: 041818.B\041818016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157698

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	2641084.00	4.2589
Aroclor 1242	2	Averaged	3.512	3.479	3.547	2520033.45	2622546.00	4.0679
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7489584.00	5.2431
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3222670.00	5.9554
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2158446.00	5.4059
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	111679180.	1.9343
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	122186320.	-0.8993

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.430	40840	33323	0.816	0.23		
1.537	17254	12915	0.749	0.09		
1.688	12270	8463	0.690	0.07		
1.804	537154	469858	0.875	3.07	1 Aroclor 1221	BA
2.158	11282	10928	0.969	0.06		
2.198	158378	141258	0.892	0.90		
2.407	279229	204848	0.734	1.60	1 Aroclor 1221	BA
2.485	5973454	5698500	0.954	34.47	$ 2 Tetrachloro-m-xylene	BA
2.688	723322	608616	0.841	4.14	1 Aroclor 1221	BA
2.789	557097	532699	0.956	3.19	1 Aroclor 1221	BA
2.851	1723482	1520837	0.882	9.87	1 Aroclor 1221	BA
3.053	42842	31274	0.730	0.24		
3.281	125722	92702	0.737	0.72		
3.324	409120	233739	0.571	2.34		
3.433	41957	33921	0.808	0.24		
3.514	152248	110173	0.724	0.87		
3.609	20491	17352	0.847	0.11		
3.693	13172	11957	0.908	0.07		
3.731	39776	40682	1.023	0.22		
3.755	38316	38664	1.009	0.21		
3.827	333479	205587	0.616	1.91		
3.930	166253	139975	0.842	0.95		
3.994	101078	94563	0.936	0.57		
4.058	16842	14008	0.832	0.09		
4.214	43249	38654	0.894	0.24		
4.260	30501	31686	1.039	0.17		
4.291	19839	13076	0.659	0.11		
4.418	34788	38094	1.095	0.19		
4.447	27970	19186	0.686	0.16		
4.544	57594	51561	0.895	0.33		
4.616	16740	13977	0.835	0.09		
4.815	23044	20925	0.908	0.13		
4.847	36853	34664	0.941	0.21		
4.879	53269	36786	0.691	0.30		
5.037	34294	32438	0.946	0.19		
5.103	10234	8648	0.845	0.05		
5.408	11500	8513	0.740	0.06		

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

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO		REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8				
2.484	2.484	0.000	5973454	0.05000	0.048			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.804	1.804	0.000	537154	0.50000	0.52	0.00- 20.00	100.00	(M)	BA
2.407	2.407	0.000	279229	0.50000	0.51	0.00- 20.00	51.98		BA
2.688	2.688	0.000	723321	0.50000	0.52	0.00- 20.00	134.66		BA
2.789	2.789	0.000	557097	0.50000	0.50	0.00- 20.00	103.71		BA
2.851	2.851	0.000	1723482	0.50000	0.53	0.00- 20.00	320.85		BA
Average of Peak Amounts =					0.51600				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.571	8.571	0.000	5321926	0.05000	0.048				

QC Flag Legend

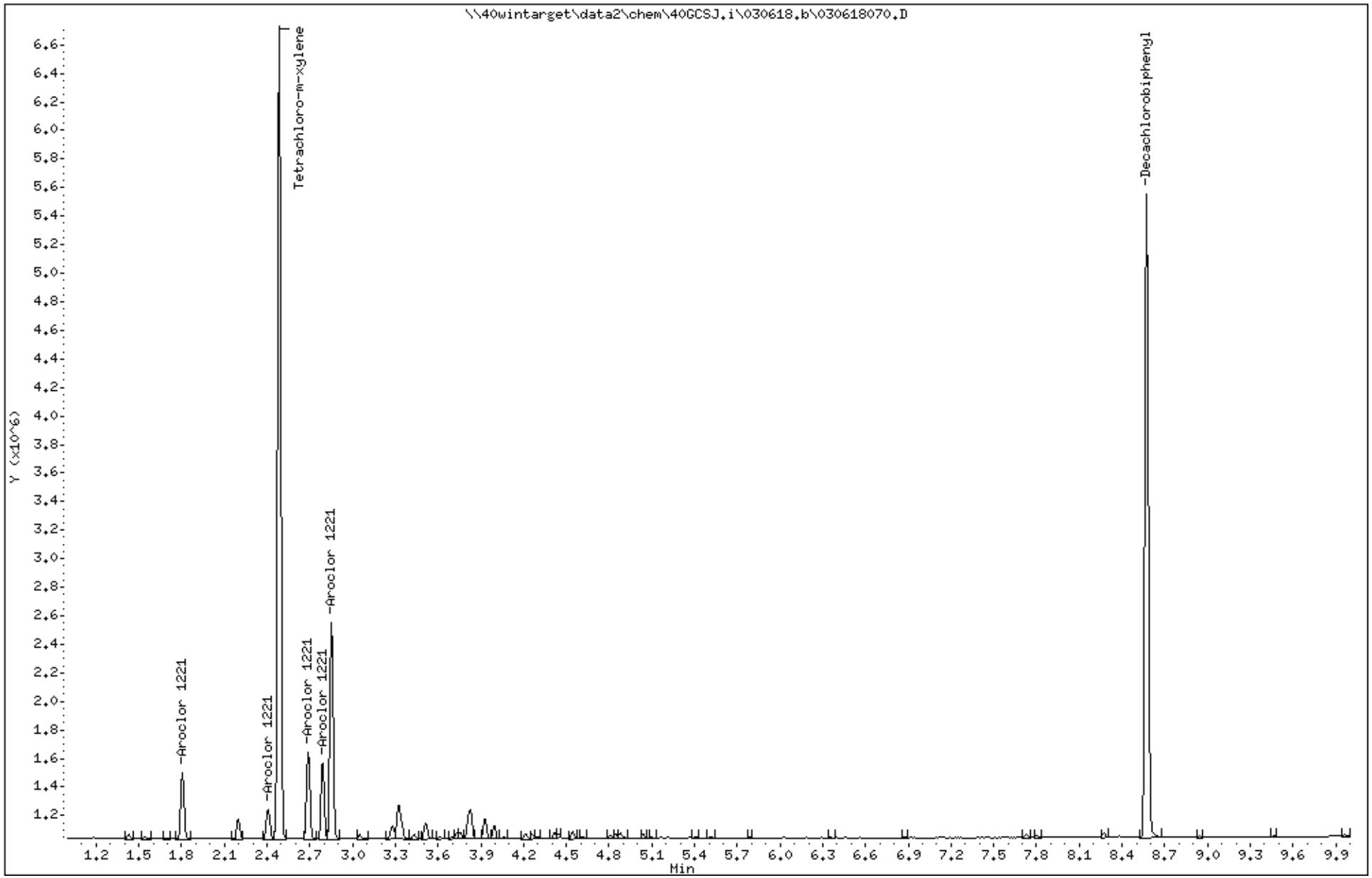
M - Compound response manually integrated.

Review Codes Legend

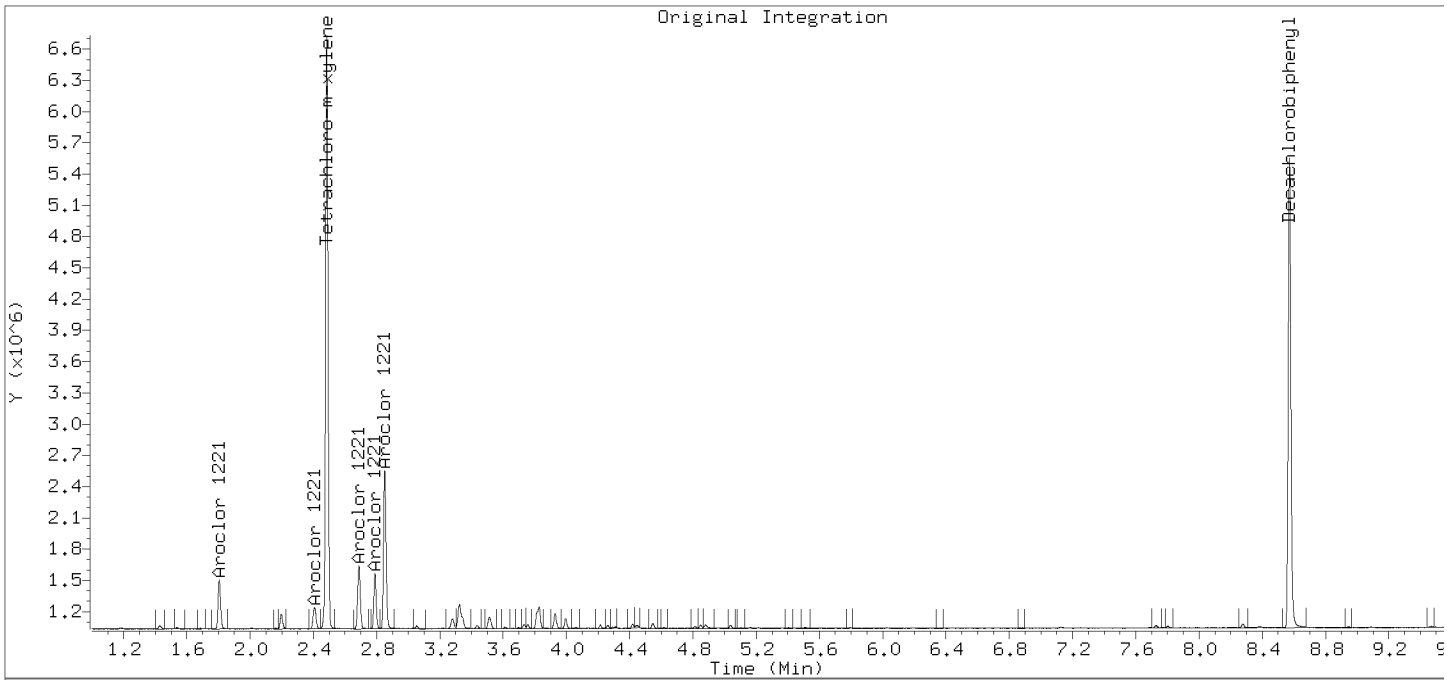
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

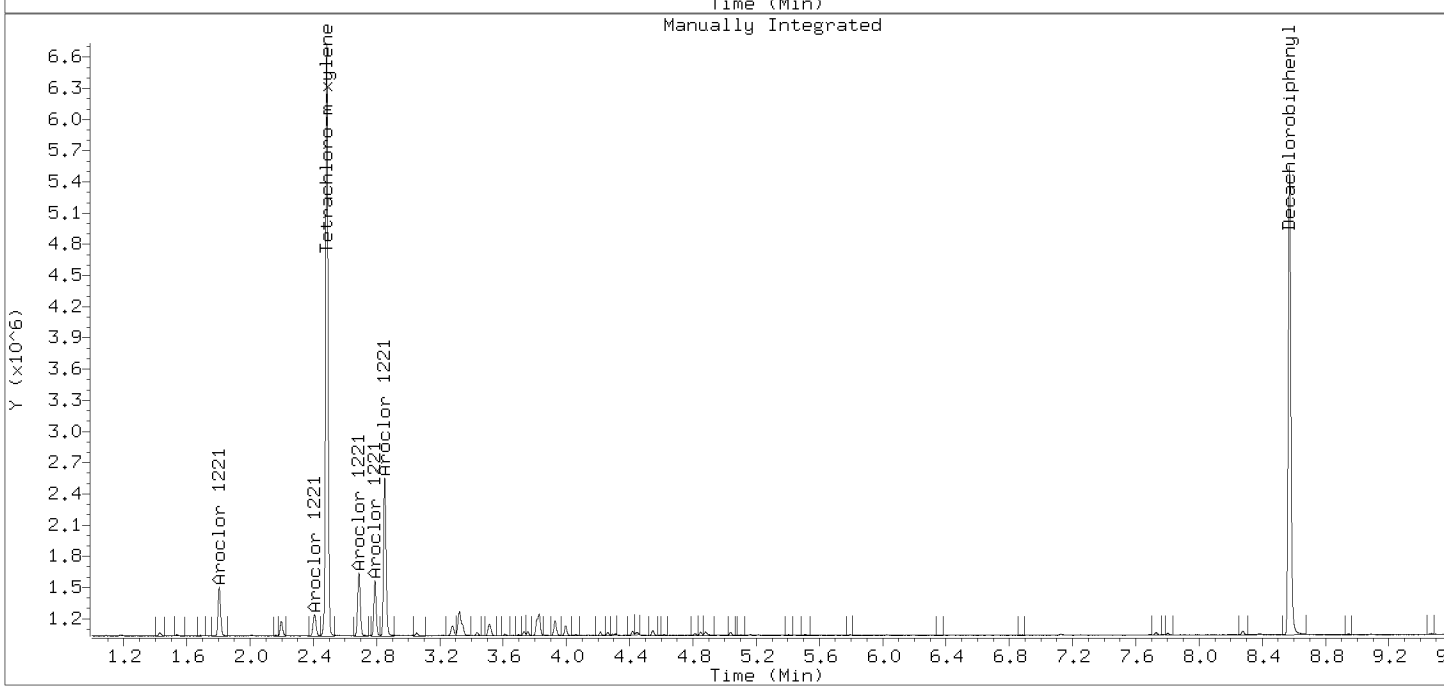
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	14288	12968	0.908	0.03		
1.428	37134	32784	0.883	0.09		
1.539	20685	13744	0.664	0.05		
1.806	19059	17804	0.934	0.05		
2.404	134346	103552	0.771	0.35		
2.485	5873636	5676099	0.966	16.03	$ 2 Tetrachloro-m-xylene	
2.686	193190	158466	0.820	0.51		
2.788	283870	272236	0.959	0.75		
2.850	999209	952371	0.953	2.66		
3.054	145787	130280	0.894	0.38		
3.279	24447	19522	0.799	0.06		
3.317	1287474	1200238	0.932	3.43	3 Aroclor 1242	BA
3.344	730459	693075	0.949	1.94		
3.435	207883	189325	0.911	0.55		
3.513	1293863	944289	0.730	3.44	3 Aroclor 1242	BA
3.612	22860	18377	0.804	0.06		
3.647	23439	16349	0.698	0.06		
3.696	36476	35506	0.973	0.09		
3.731	322838	319621	0.990	0.86		
3.756	213073	205263	0.963	0.56		
3.826	3581222	2097110	0.586	9.54	3 Aroclor 1242	BA
3.928	1554671	1293077	0.832	4.14	3 Aroclor 1242	BA
3.994	1041253	986439	0.947	2.77	3 Aroclor 1242	BA
4.058	279247	251769	0.902	0.74		
4.136	113510	101678	0.896	0.30		
4.215	824770	788034	0.955	2.19		
4.261	781405	765245	0.979	2.08		
4.292	312524	328346	1.051	0.83		
4.311	404517	367665	0.909	1.07		
4.372	27372	22538	0.823	0.07		
4.417	1118646	1040424	0.930	2.98		
4.452	854457	630460	0.738	2.27		
4.545	1421692	1283823	0.903	3.78		
4.618	334338	302865	0.906	0.89		
4.679	28007	18667	0.667	0.07		
4.728	68438	58015	0.848	0.18		
4.768	73081	69415	0.950	0.19		

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

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5873636	0.05000	0.048			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1287474	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1293862	0.50000	0.51	0.00- 20.00	100.50	BA
3.825	3.827	-0.002	3581221	0.50000	0.50	0.00- 20.00	278.16	BA
3.928	3.929	-0.001	1554671	0.50000	0.51	0.00- 20.00	120.75	BA
3.993	3.995	-0.002	1041252	0.50000	0.51	0.00- 20.00	80.88	BA
Average of Peak Amounts =					0.50800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5034013	0.05000	0.046			

QC Flag Legend

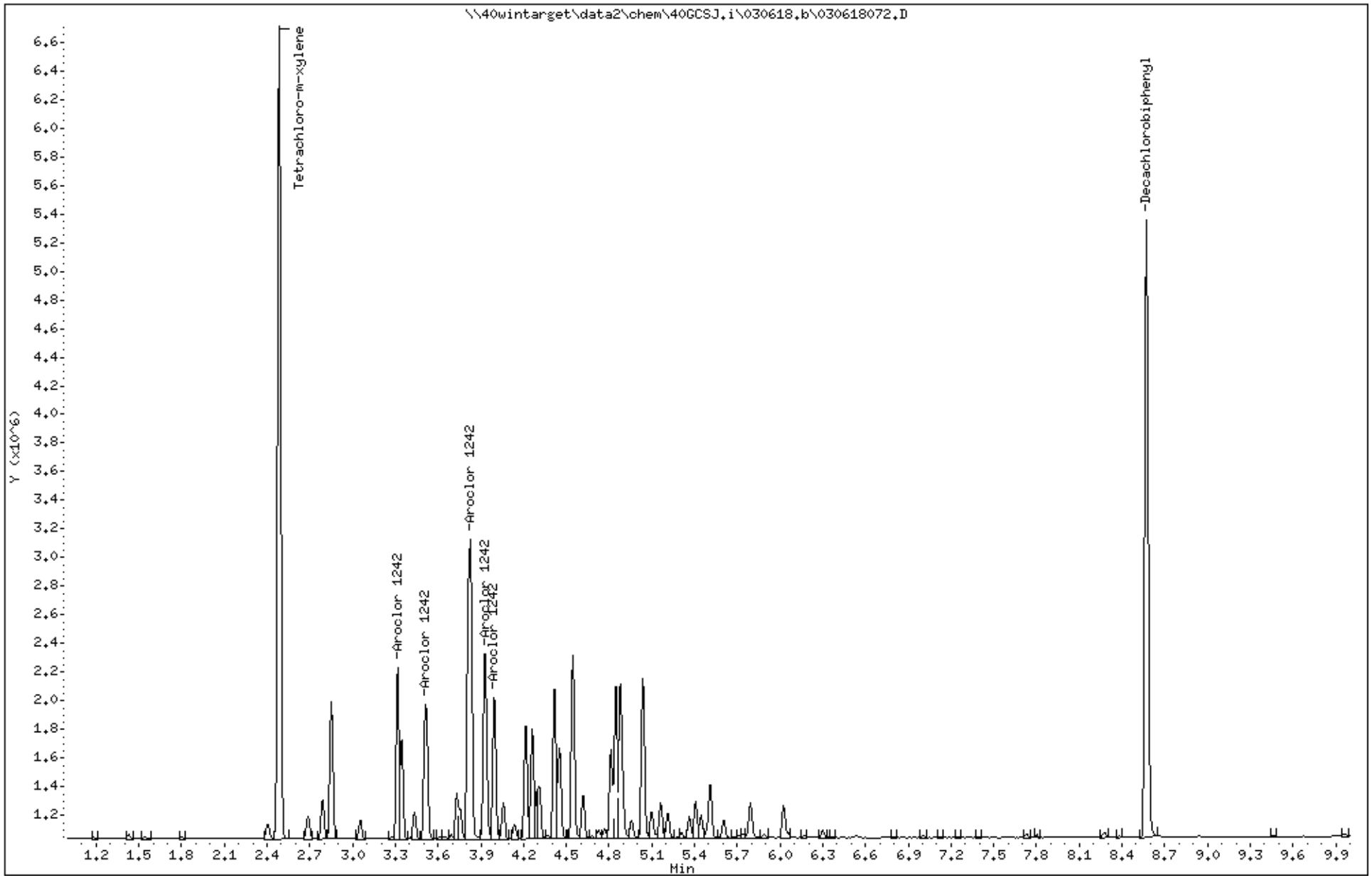
M - Compound response manually integrated.

Review Codes Legend

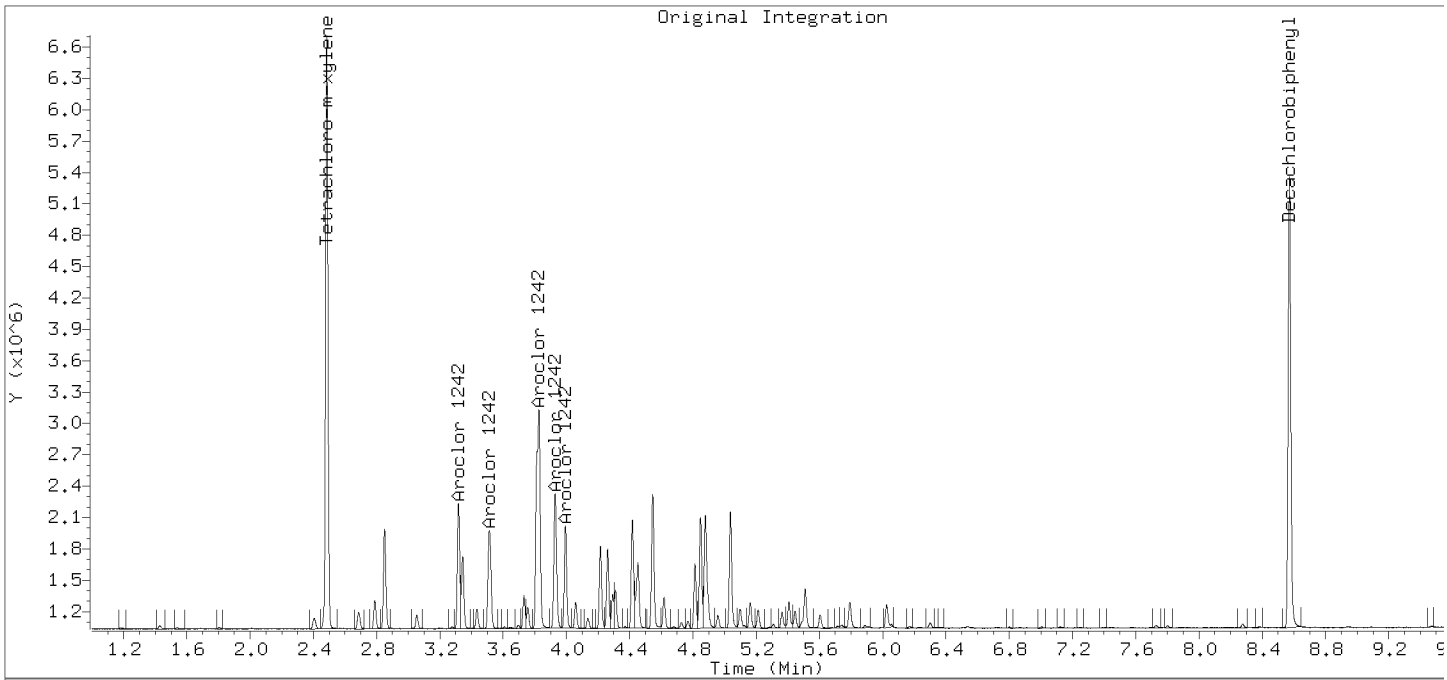
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

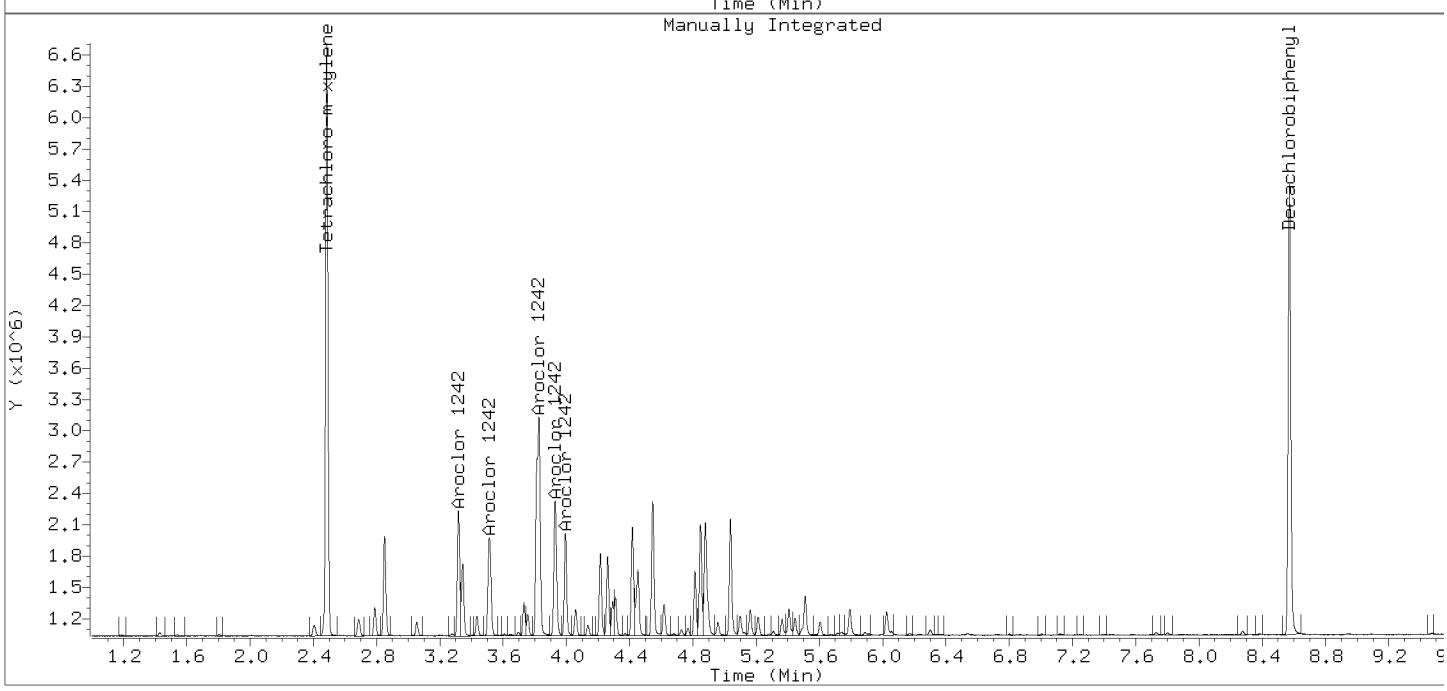
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

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

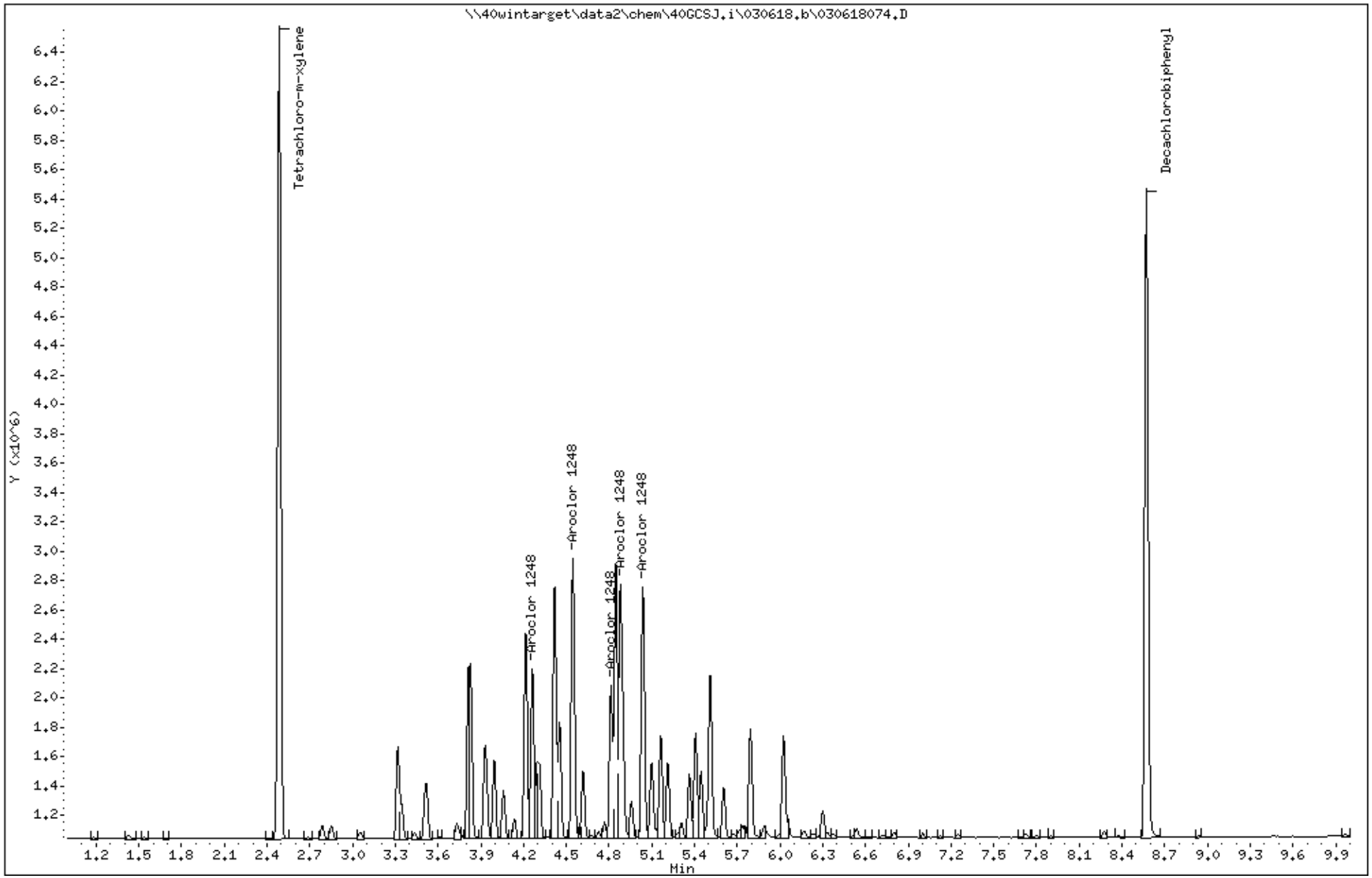
M - Compound response manually integrated.

Review Codes Legend

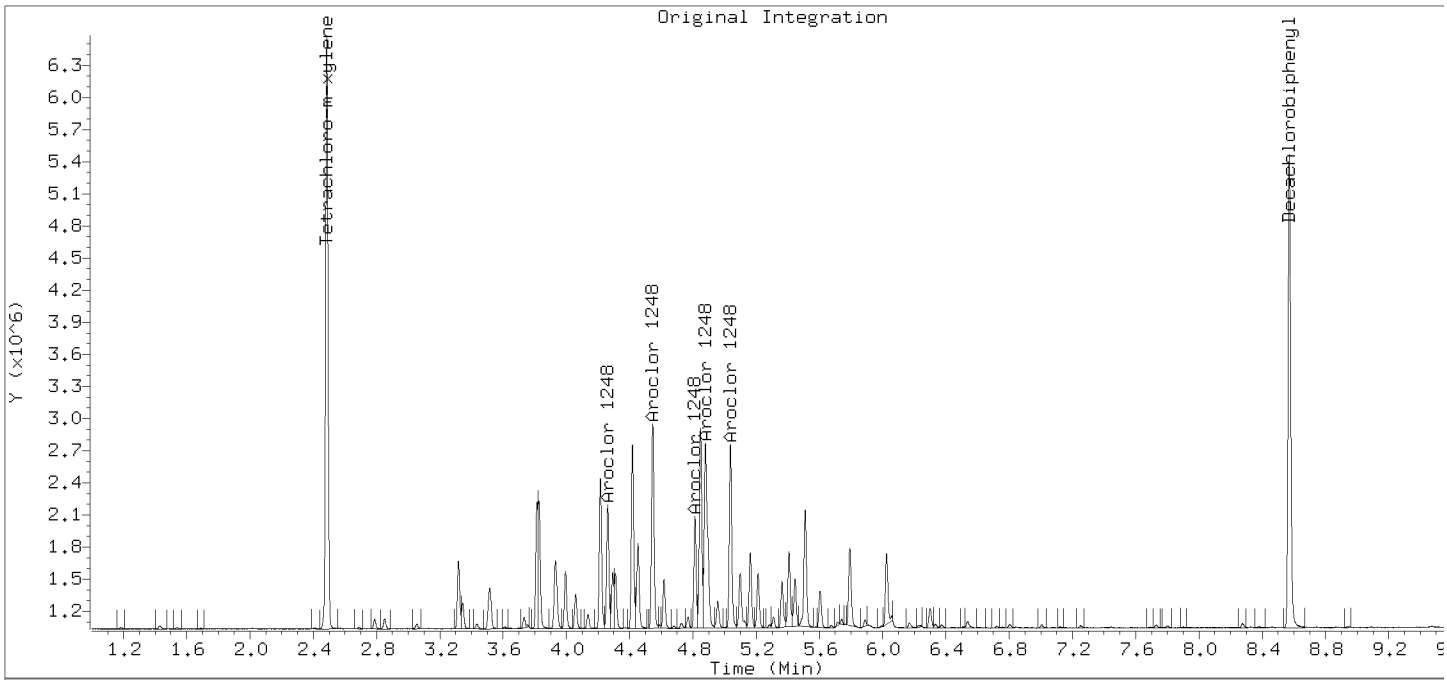
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

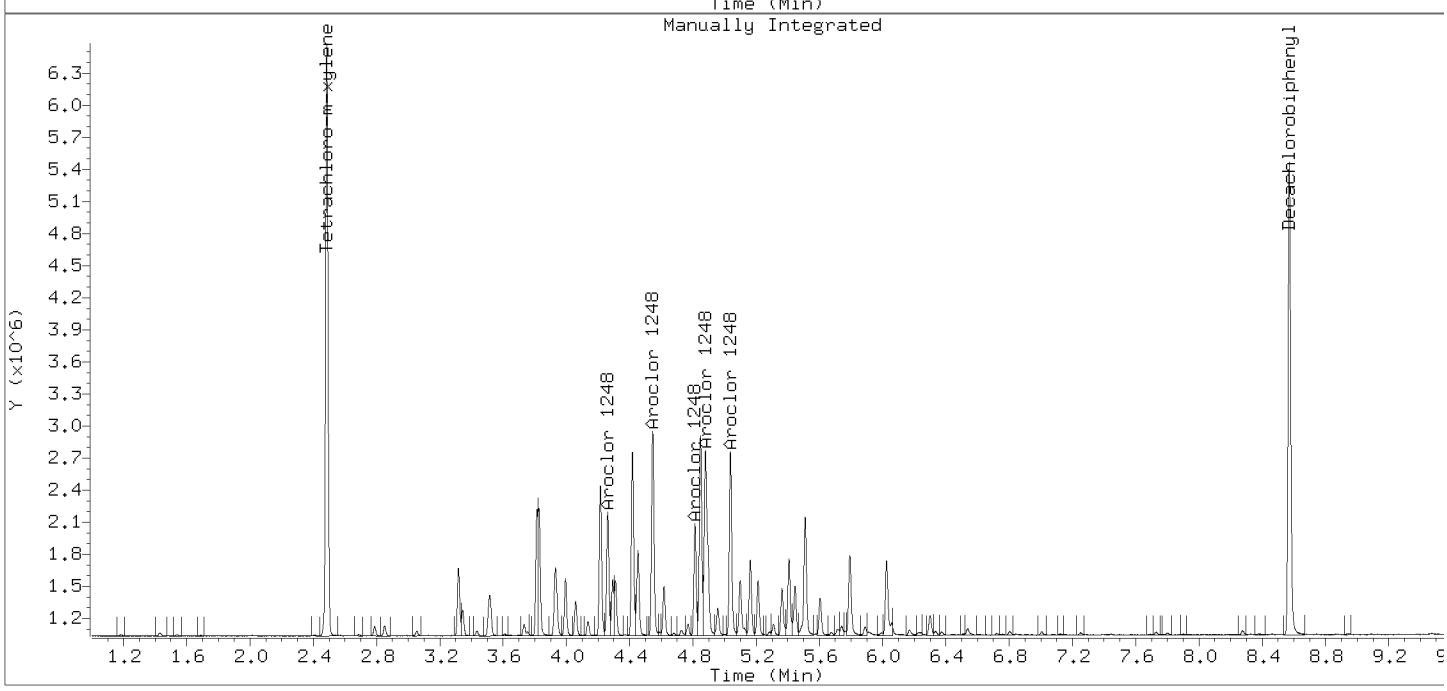
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Date : 06-MAR-2018 20:44
Client ID: 1248-ICV
Sample Info: 1248-ICV, 185563:1

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

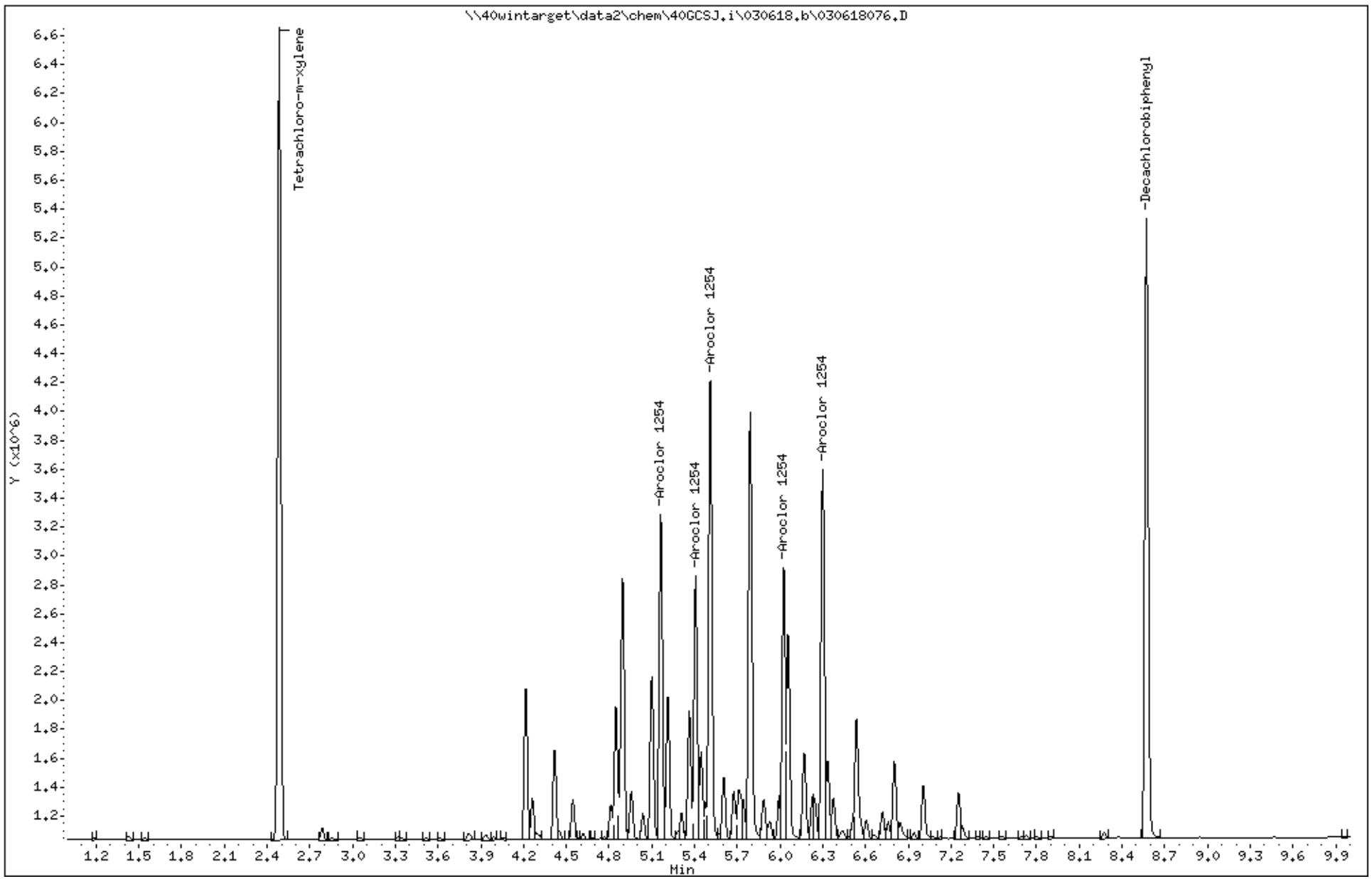
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

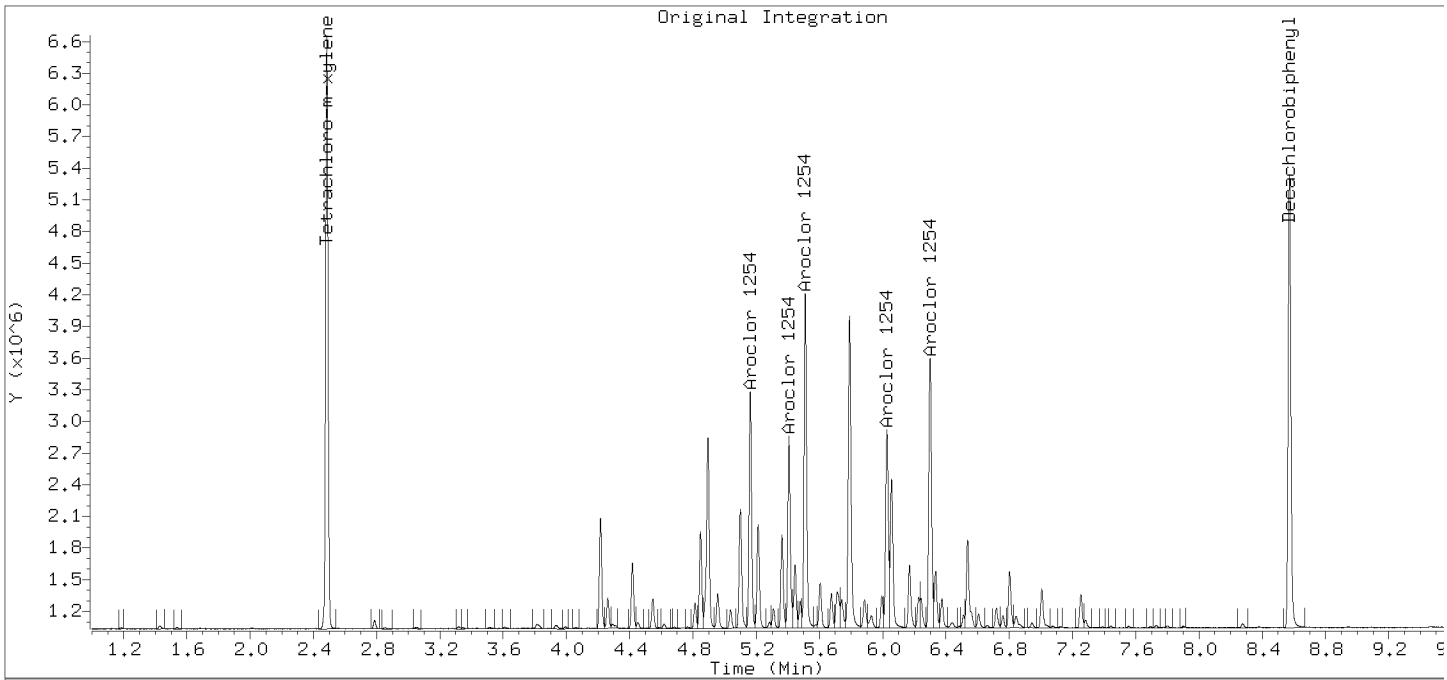
Operator: BLM

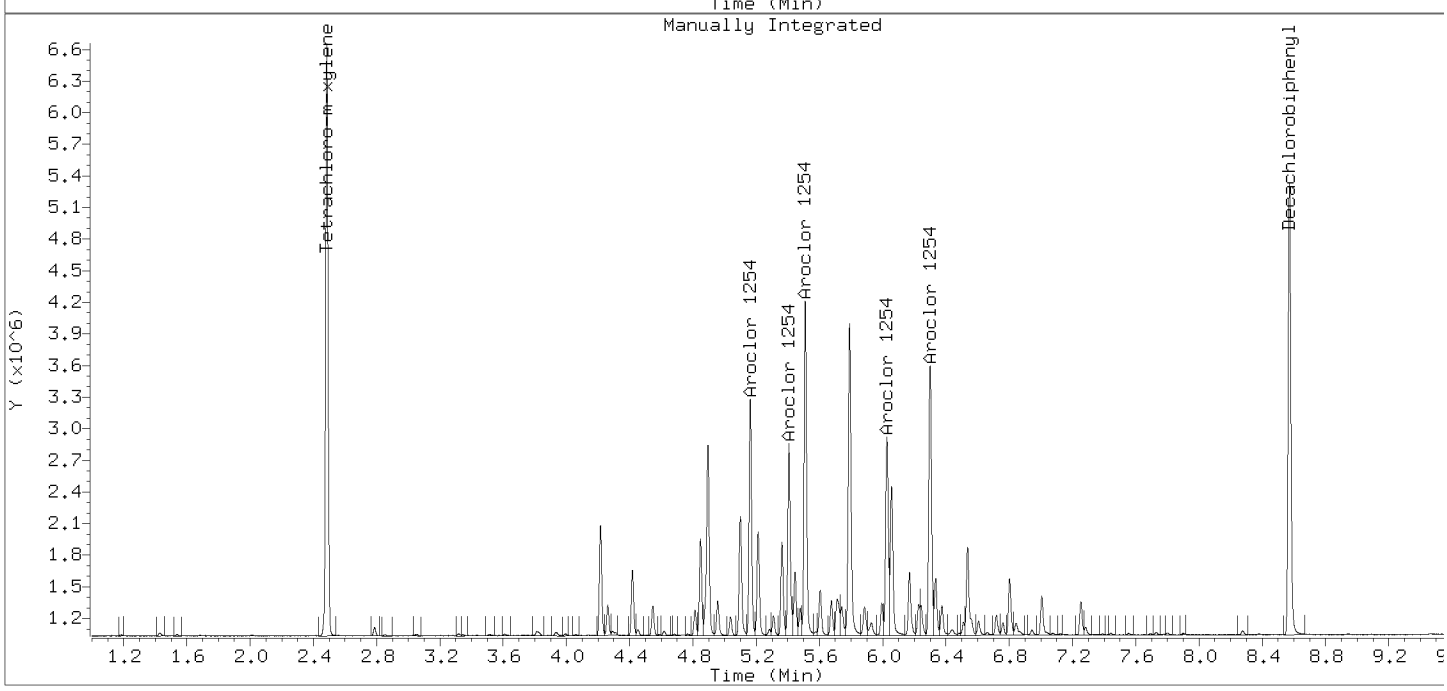
Column phase: ZB-1ms

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	

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.

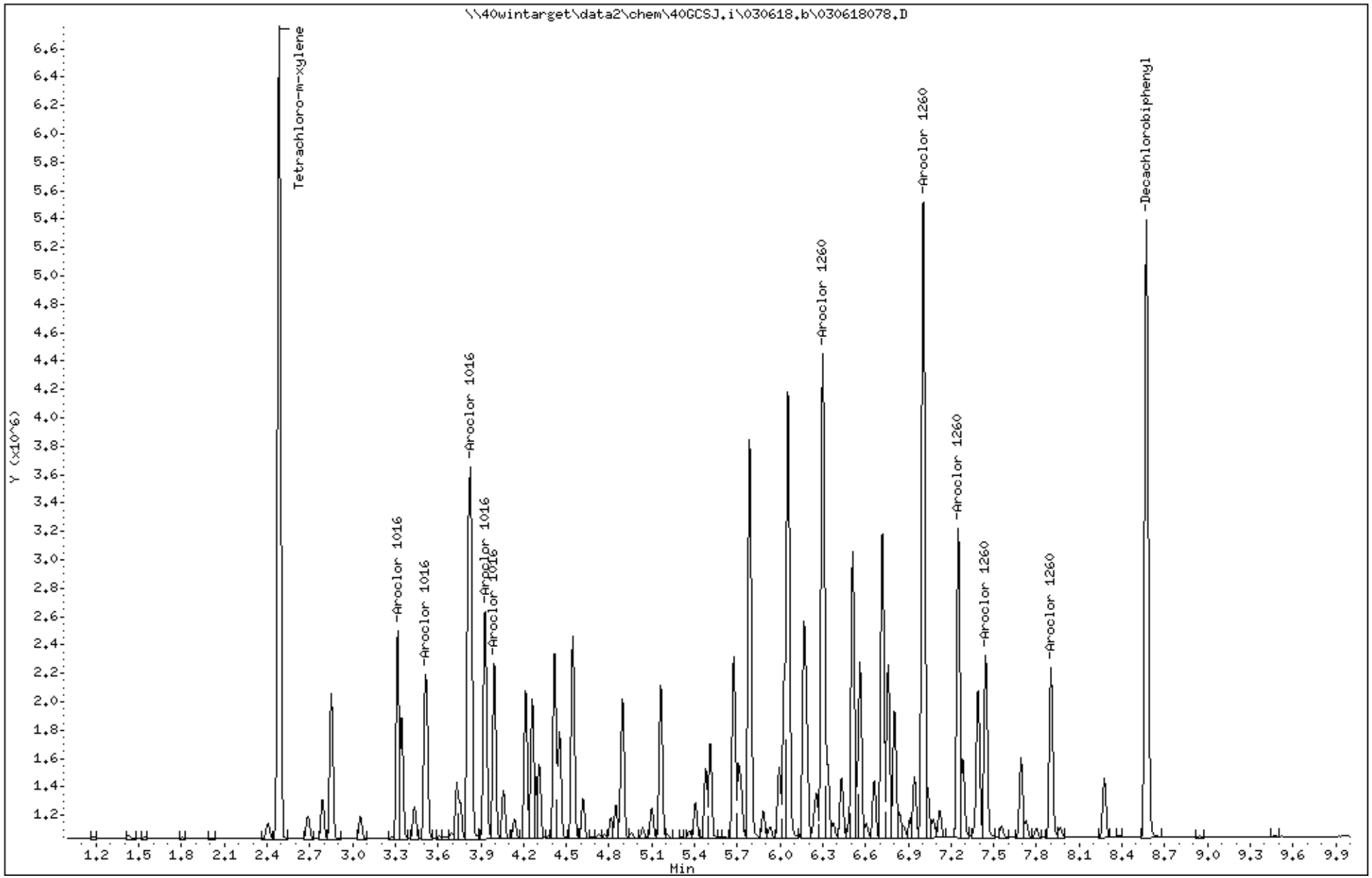
QC Flag Legend

Review Codes Legend

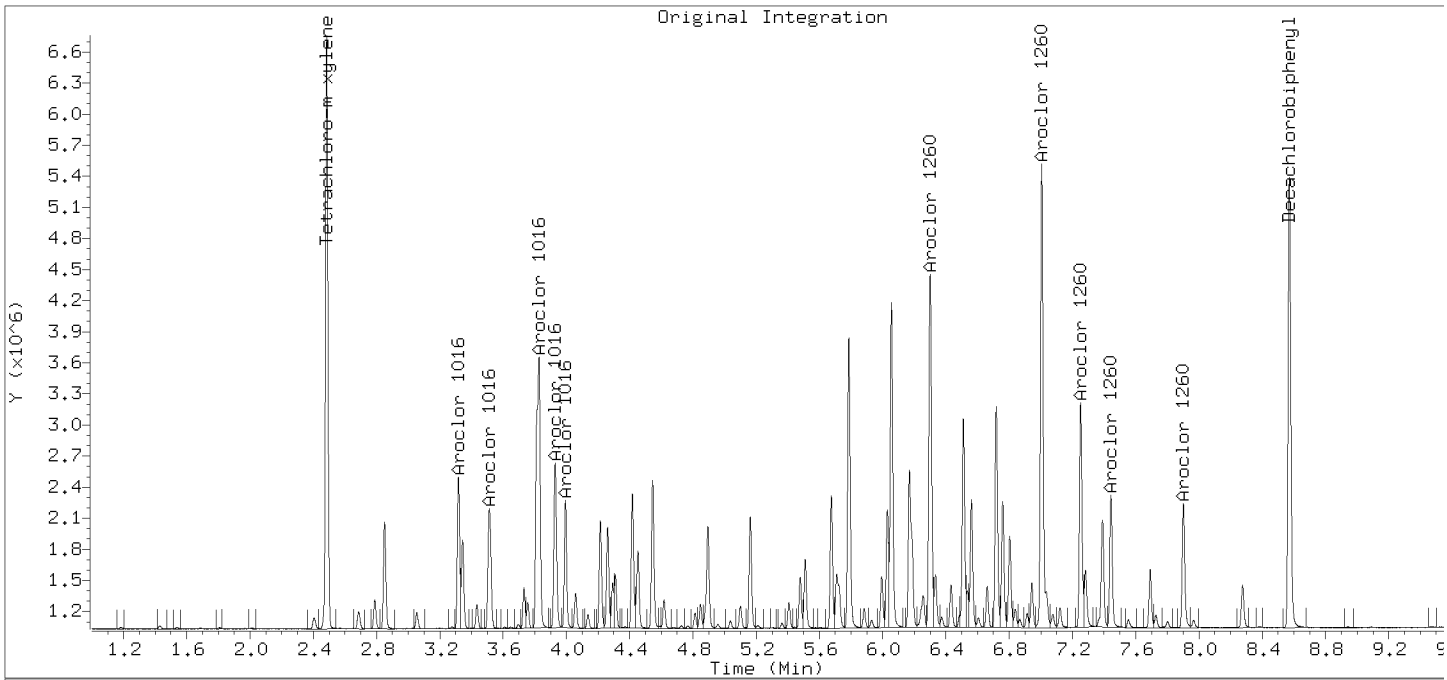
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

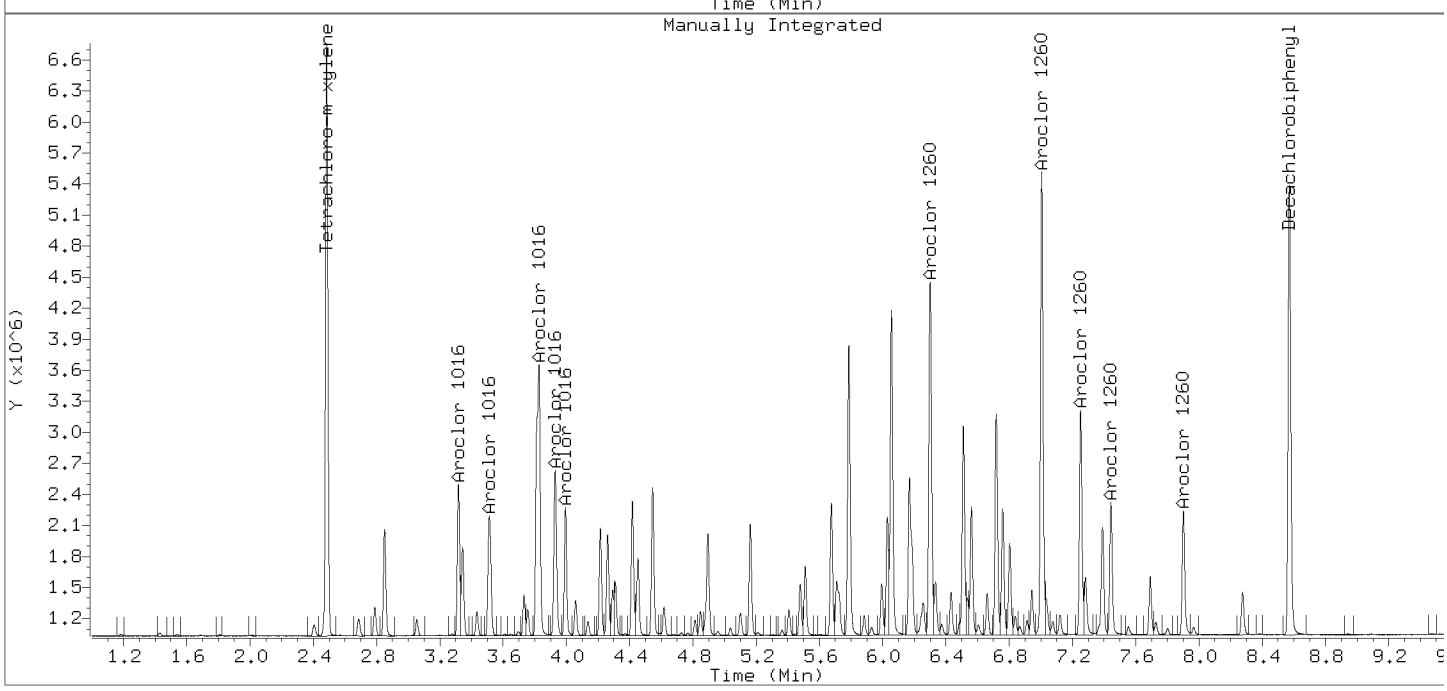
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

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\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	

Data File: ...wintarget\data2\chem\40GCSJ.i\041118.b\041118004.D Page 3
Report Date: 13-Apr-2018 11:31

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

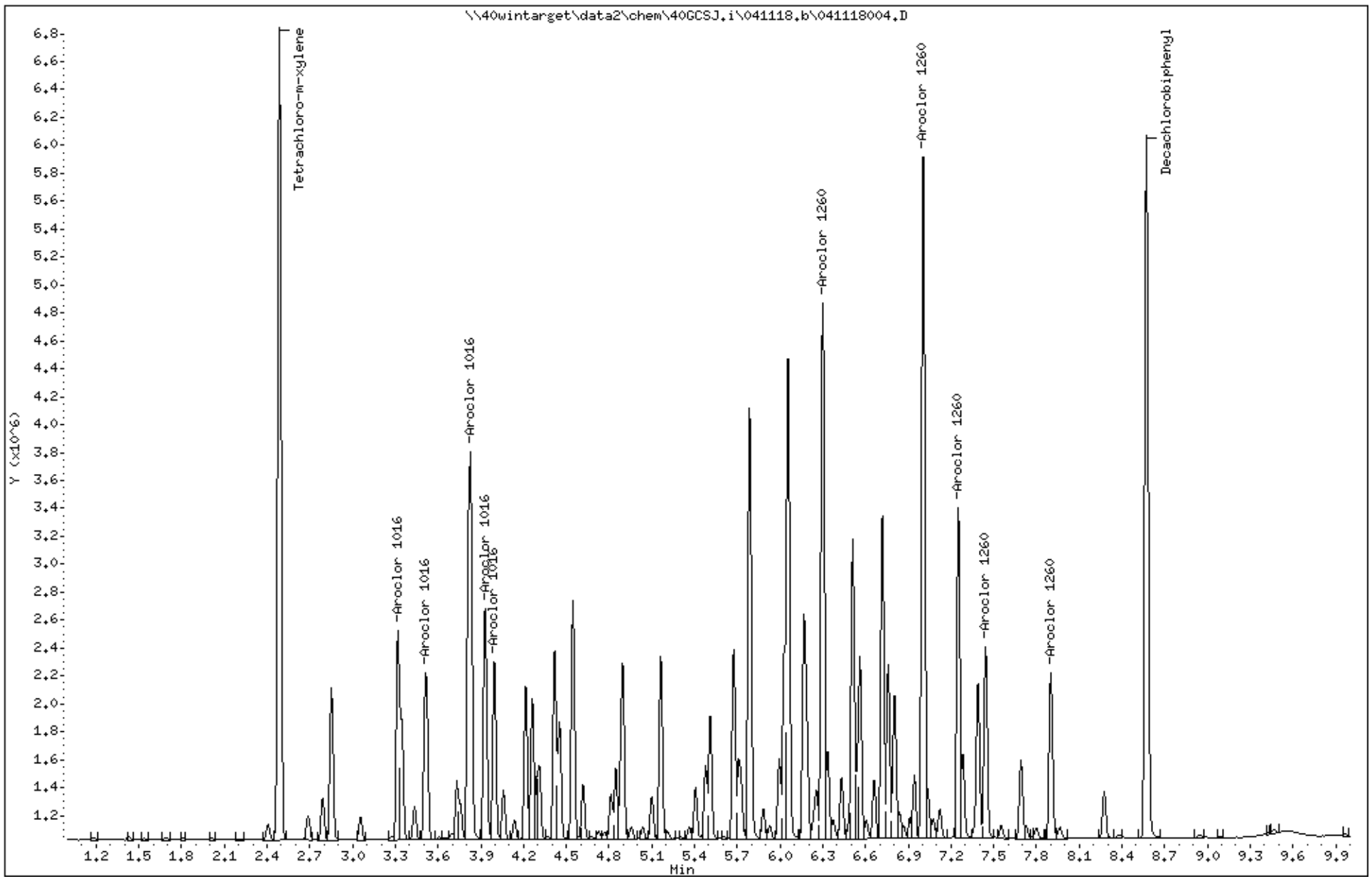
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

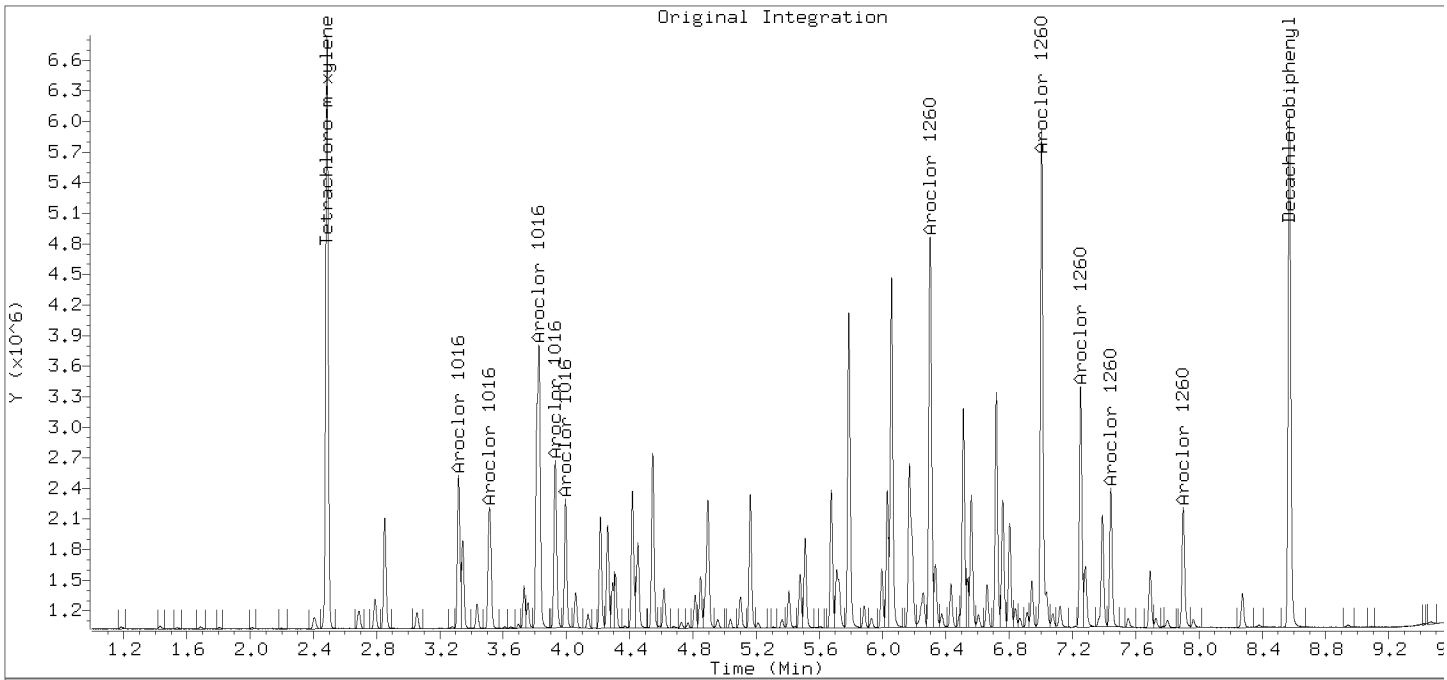
Operator: BLM

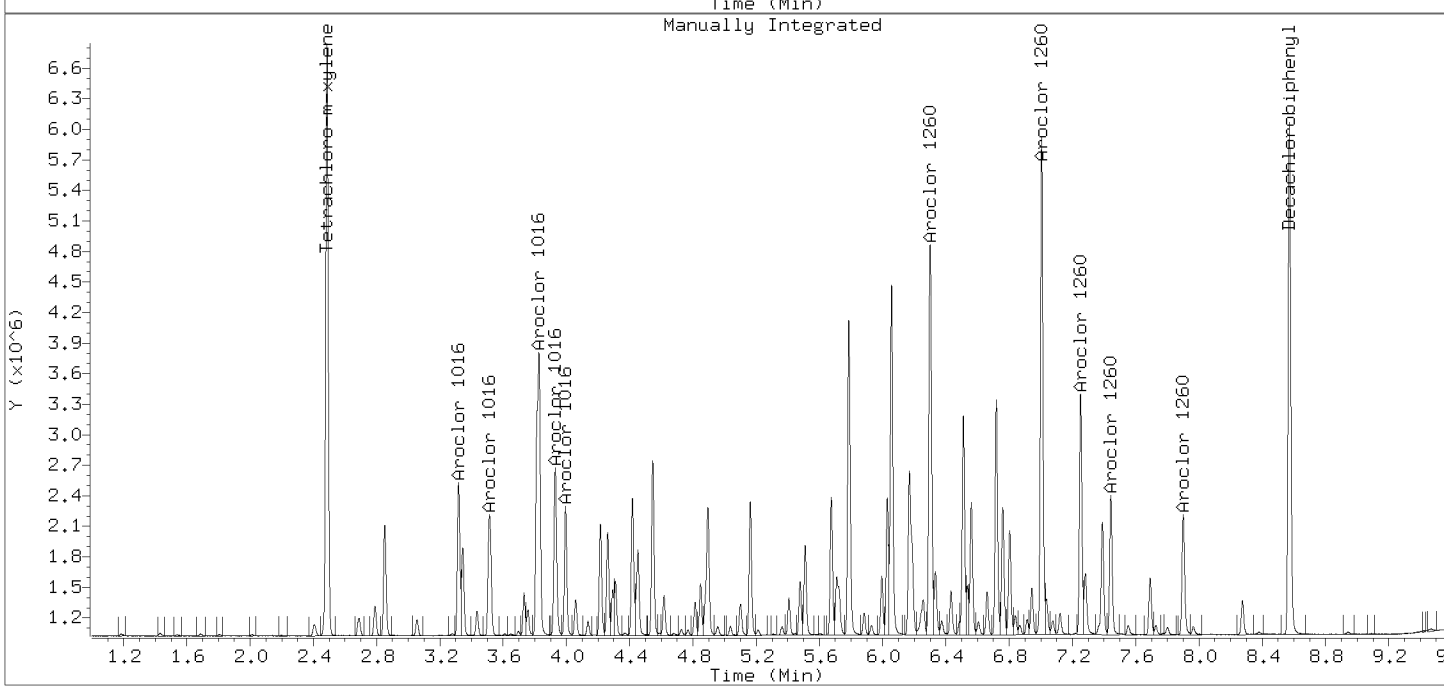
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\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	

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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

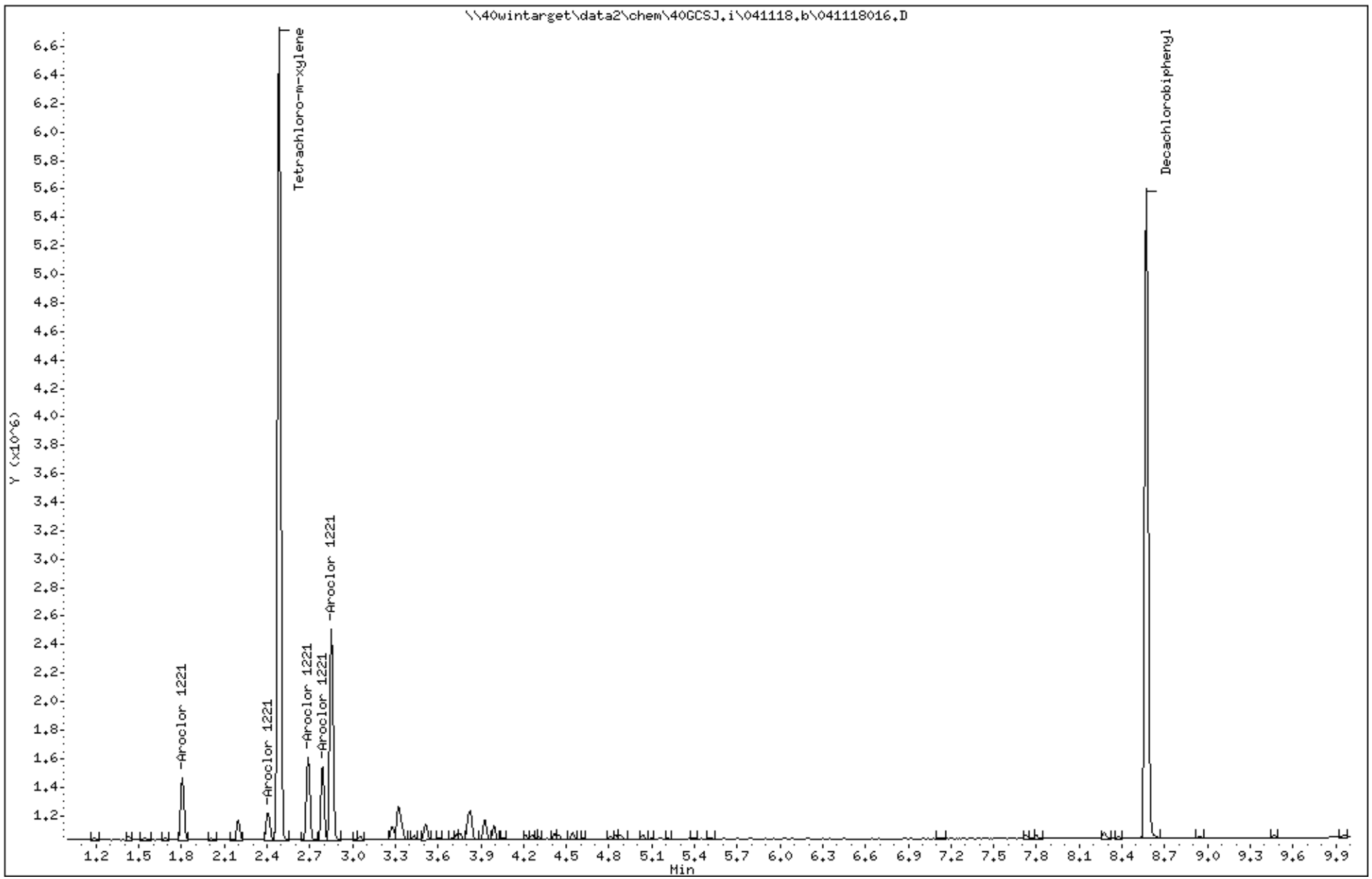
M - Compound response manually integrated.

Review Codes Legend

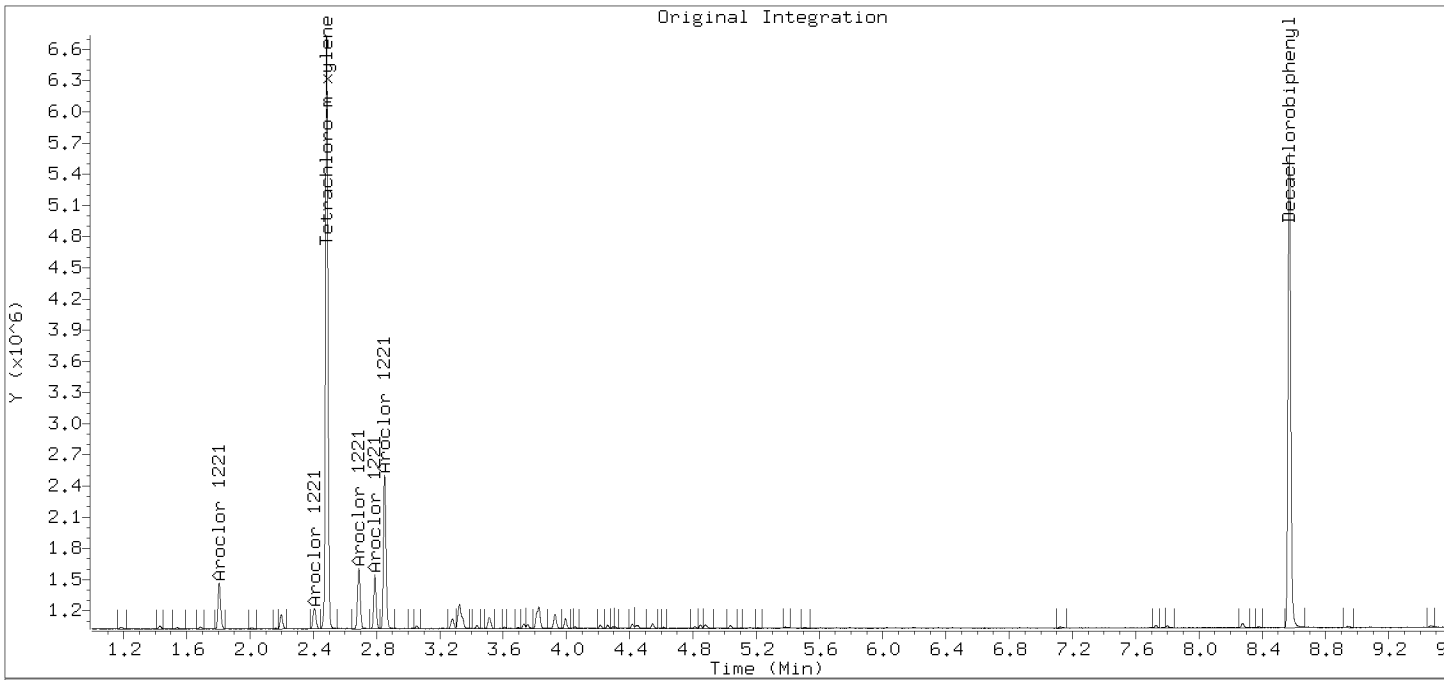
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

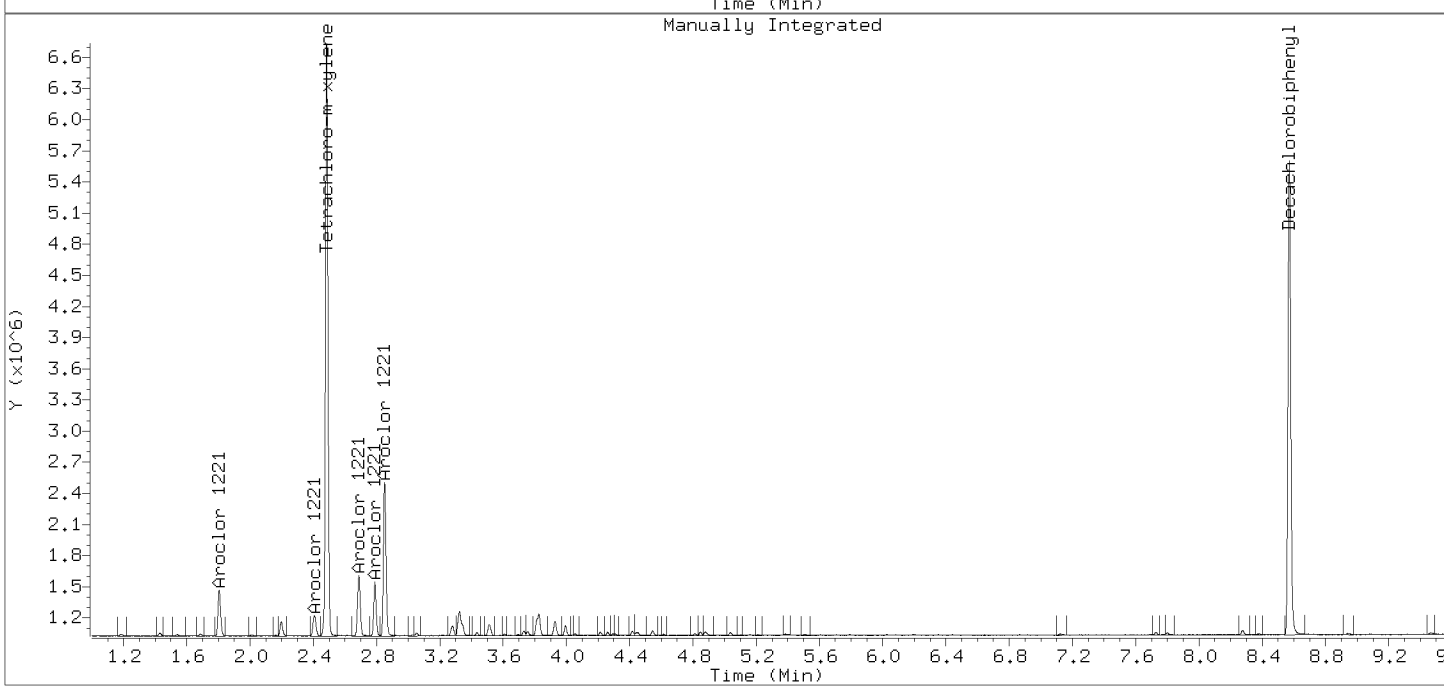
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118016.D
Date : 11-APR-2018 17:42
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118027.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 11-APR-2018 20:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
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: 27 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
1.184	27497	22635	0.823	0.09		
1.430	41386	31374	0.758	0.14		
1.538	15987	13792	0.863	0.05		
1.689	25363	18024	0.711	0.08		
1.805	317444	258723	0.815	1.09		
2.011	18158	14077	0.775	0.06		
2.198	97995	81023	0.827	0.33		
2.407	206400	151456	0.734	0.70		
2.485	6180062	5691798	0.921	21.64	$ 2 Tetrachloro-m-xylene	
2.688	470854	373368	0.793	1.61		
2.790	433486	391414	0.903	1.48		
2.851	1403549	1225473	0.873	4.82	4 Aroclor 1232	BA
3.055	88173	77597	0.880	0.30		
3.279	78317	56373	0.720	0.26		
3.318	811021	705759	0.870	2.78		
3.344	433329	393468	0.908	1.48		
3.435	127970	112800	0.881	0.43		
3.513	731366	523541	0.716	2.51	4 Aroclor 1232	BA
3.610	22598	19250	0.852	0.07		
3.698	26738	24025	0.899	0.09		
3.731	195334	193452	0.990	0.67		
3.756	139884	126794	0.906	0.48		
3.826	2109188	1239883	0.588	7.24	4 Aroclor 1232	BA
3.928	904091	755424	0.836	3.10	4 Aroclor 1232	BA
3.994	598528	563558	0.942	2.05	4 Aroclor 1232	BA
4.058	162451	141359	0.870	0.55		
4.136	65646	57828	0.881	0.22		
4.216	429512	395640	0.921	1.47		
4.262	415948	392025	0.942	1.42		
4.294	174141	181166	1.040	0.59		
4.309	221227	196281	0.887	0.76		
4.369	21940	16774	0.765	0.07		
4.417	578470	556165	0.961	1.98		
4.452	485337	333526	0.687	1.66		
4.546	748168	683318	0.913	2.57		
4.617	179441	164181	0.915	0.61		
4.677	17864	11427	0.640	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.726	40049	33952	0.848	0.13	
4.767	43325	39208	0.905	0.14	
4.813	344198	329322	0.957	1.18	
4.847	604640	575483	0.952	2.07	
4.879	776609	584592	0.753	2.66	
4.957	87741	62949	0.717	0.30	
5.037	657120	616375	0.938	2.25	
5.097	122468	91238	0.745	0.42	
5.162	142641	123277	0.864	0.49	
5.212	108003	89161	0.826	0.37	
5.311	29612	20802	0.702	0.10	
5.363	95837	71963	0.751	0.32	
5.406	151175	126081	0.834	0.51	
5.446	92964	81322	0.875	0.31	
5.488	27633	37650	1.362	0.09	
5.508	230151	182070	0.791	0.79	
5.604	83793	65715	0.784	0.28	
5.672	17587	13558	0.771	0.06	
5.707	26423	16857	0.638	0.09	
5.738	18350	18876	1.029	0.06	
5.792	176709	127155	0.720	0.60	
5.886	30440	16146	0.530	0.10	
6.026	135437	115347	0.852	0.46	
6.055	37851	32652	0.863	0.13	
6.170	19364	12572	0.649	0.06	
6.299	41067	36478	0.888	0.14	
6.509	14986	12351	0.824	0.05	
6.538	9638	11178	1.160	0.03	
6.559	10627	8739	0.822	0.03	
6.718	17446	14080	0.807	0.05	
6.757	10179	8408	0.826	0.03	
7.004	23058	21946	0.952	0.07	
7.124	21467	12909	0.601	0.07	
7.252	15449	13026	0.843	0.05	
7.729	24900	22864	0.918	0.08	
7.800	16658	16894	1.014	0.05	
8.277	61914	47465	0.767	0.21	
8.377	18863	12724	0.675	0.06	
8.571	5642358	4729660	0.838	19.39	$ 12 Decachlorobiphenyl
8.938	19980	11323	0.567	0.06	
9.464	26902	15156	0.563	0.09	
9.961	18275	14437	0.790	0.06	
	29098746	24688732		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118027.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 11-APR-2018 20:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
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: 27 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	6180062	0.05000	0.050			
4 Aroclor 1232					CAS #: 1114-16-5			
2.851	2.851	0.000	1403548	0.50000	0.56	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	731365	0.50000	0.54	0.00- 20.00	52.11	BA
3.826	3.827	-0.001	2109188	0.50000	0.56	0.00- 20.00	150.28	BA
3.928	3.929	-0.001	904090	0.50000	0.56	0.00- 20.00	64.41	BA
3.993	3.995	-0.002	598528	0.50000	0.55	0.00- 20.00	42.64	BA
Average of Peak Amounts =					0.55400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5642358	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.

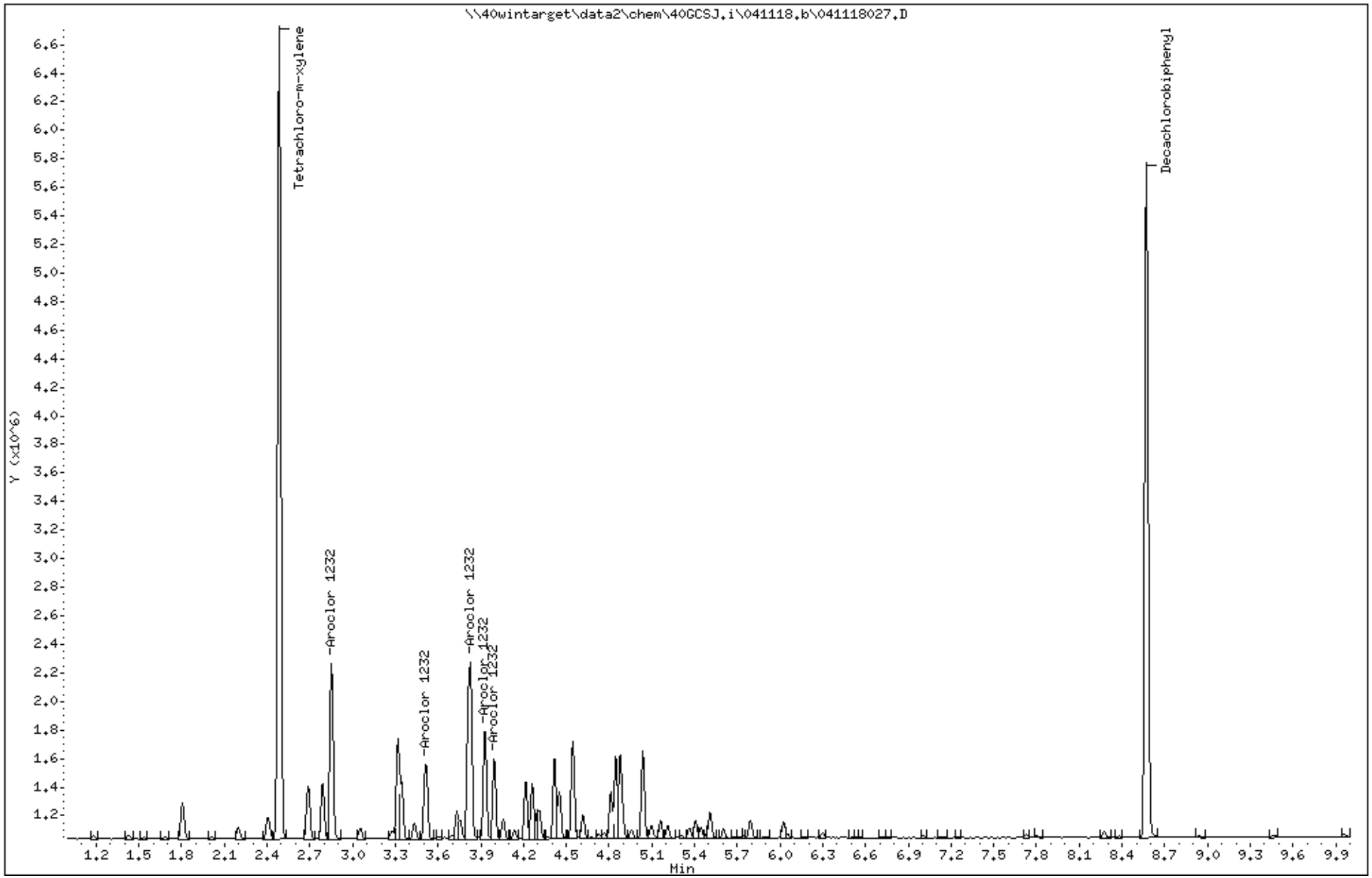
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118027.D
Date : 11-APR-2018 20:36
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

Instrument: 40GCSJ.i

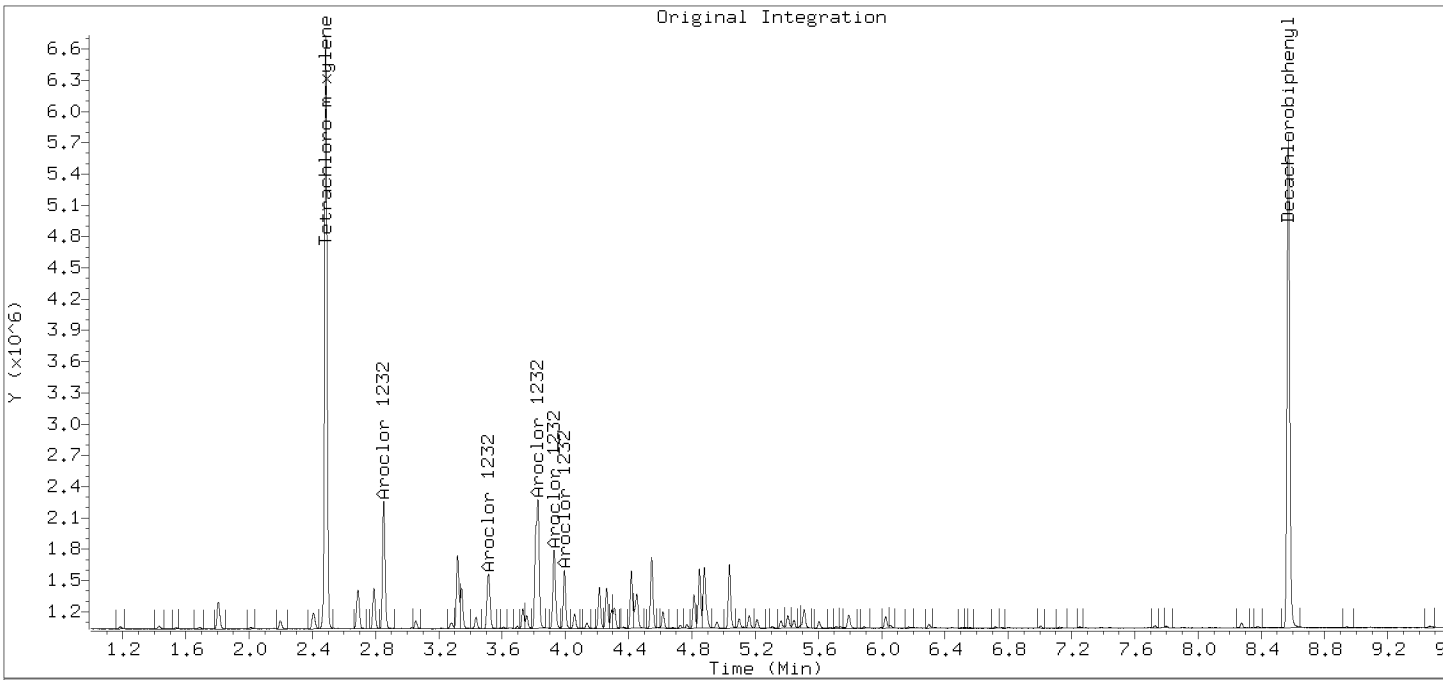
Operator: BLM

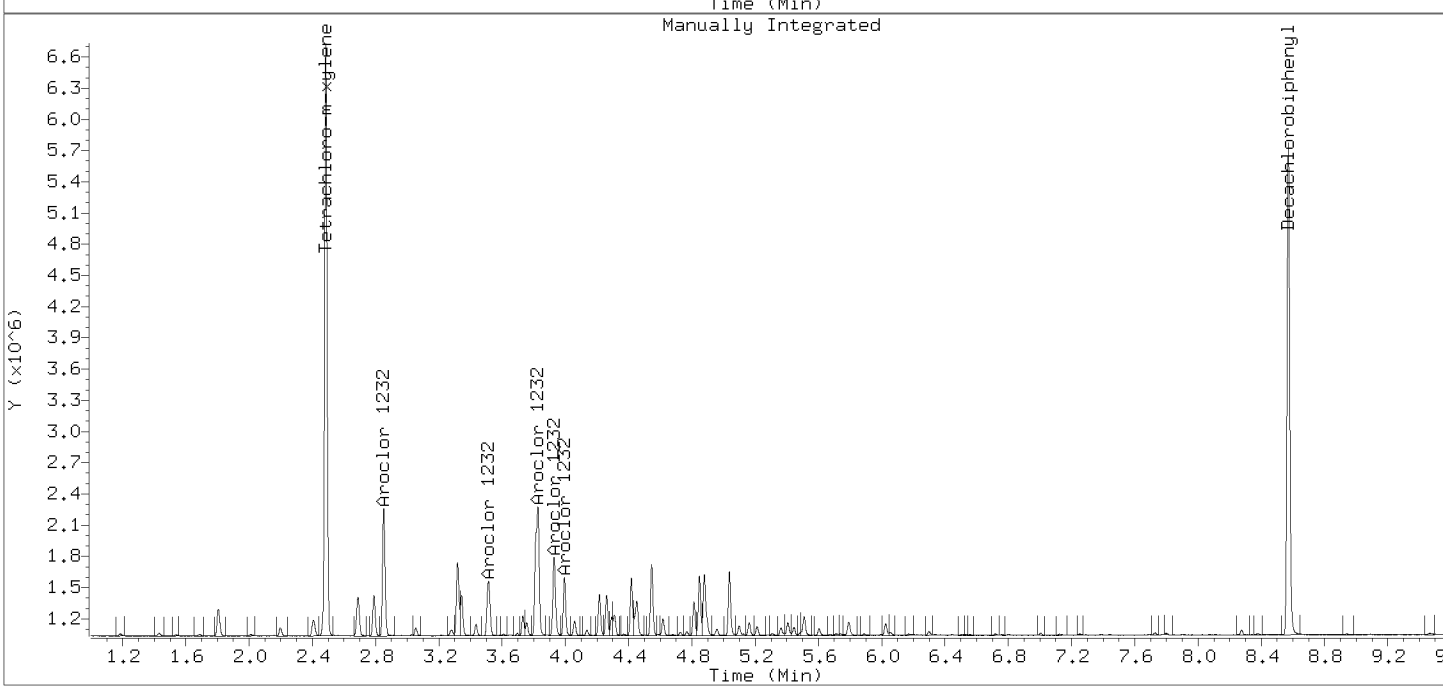
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118027.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 11-APR-2018 20:36 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1393814	1403548	BA
Aroclor 1232	1393814	1403548	BA
Aroclor 1232	1393814	1403548	BA
Aroclor 1232	1393814	1403548	BA
Aroclor 1232	1393814	1403548	BA
Tetrachloro-m-xylene	6180062	6180062	
Decachlorobiphenyl	5642358	5642358	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 13-APR-2018 14:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.189	21465	14887	0.694	0.02		
1.430	42547	30875	0.726	0.04		
1.541	17974	15307	0.852	0.01		
1.689	21939	17922	0.817	0.02		
1.804	15165	13683	0.902	0.01		
2.406	163409	122386	0.749	0.16		
2.486	7071044	6156850	0.871	7.69	$ 2 Tetrachloro-m-xylene	
2.687	237750	183348	0.771	0.24		
2.790	356812	311092	0.872	0.36		
2.852	1295544	1131134	0.873	1.31		
3.055	197481	170508	0.863	0.20		
3.281	31867	21628	0.679	0.03		
3.318	1777287	1580741	0.889	1.80	5 Aroclor 1016	BA
3.344	1028017	929609	0.904	1.04		
3.435	294933	249717	0.847	0.29		
3.513	1776270	1240703	0.698	1.80	5 Aroclor 1016	BA
3.612	24279	20090	0.827	0.02		
3.649	33890	20932	0.618	0.03		
3.695	48768	46839	0.960	0.04		
3.732	451262	443426	0.983	0.45		
3.756	297224	281932	0.949	0.30		
3.826	5044713	2915111	0.578	5.12	5 Aroclor 1016	BA
3.929	2155981	1729240	0.802	2.18	5 Aroclor 1016	BA
3.994	1445687	1307776	0.905	1.46	5 Aroclor 1016	BA
4.058	425641	378027	0.888	0.43		
4.137	164371	150964	0.918	0.16		
4.215	1285071	1184350	0.922	1.30		
4.262	1157332	1070866	0.925	1.17		
4.292	475516	488267	1.027	0.48		
4.310	609616	558240	0.916	0.61		
4.368	40261	27033	0.671	0.04		
4.417	1595703	1459303	0.915	1.62		
4.452	1155234	895189	0.775	1.17		
4.546	2043760	1793596	0.878	2.07		
4.618	461224	413748	0.897	0.46		
4.678	29560	23530	0.796	0.03		
4.728	75815	60917	0.803	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.769	66635	60821	0.913	0.06	
4.813	364155	349806	0.961	0.36	
4.848	568299	533341	0.938	0.57	
4.894	1842263	1355954	0.736	1.87	
4.957	118607	94303	0.795	0.12	
5.038	105766	92739	0.877	0.10	
5.100	390649	338322	0.866	0.39	
5.162	1522519	1408129	0.925	1.54	
5.212	71689	57261	0.799	0.07	
5.305	20489	15487	0.756	0.02	
5.363	103256	93340	0.904	0.10	
5.407	437107	376920	0.862	0.44	
5.478	613510	576637	0.940	0.62	
5.510	1048727	946671	0.903	1.06	
5.606	20484	17190	0.839	0.02	
5.675	1556509	1440812	0.926	1.58	
5.709	1120408	632949	0.565	1.13	
5.786	3817180	3243361	0.850	3.87	
5.883	260822	238095	0.913	0.26	
5.928	124621	101126	0.811	0.12	
5.993	646059	607233	0.940	0.65	
6.029	1446339	1379153	0.954	1.46	
6.055	4203355	3546425	0.844	4.26	
6.169	2758951	1680564	0.609	2.80	
6.255	634625	369739	0.583	0.64	
6.299	5063480	4126997	0.815	5.14	8 Aroclor 1260
6.334	756627	648095	0.857	0.76	
6.373	189442	147511	0.779	0.19	
6.431	533781	463281	0.868	0.54	
6.486	107270	141240	1.317	0.10	
6.510	2544287	2199236	0.864	2.58	
6.534	451886	494480	1.094	0.45	
6.560	1586982	1375320	0.867	1.61	
6.605	162823	131678	0.809	0.16	
6.660	498077	467811	0.939	0.50	
6.718	2702437	2455900	0.909	2.74	
6.759	1524415	1327984	0.871	1.54	
6.803	1232216	1087129	0.882	1.25	
6.838	240198	199105	0.829	0.24	
6.868	121736	101627	0.835	0.12	
6.912	175294	161923	0.924	0.17	
6.942	534659	496252	0.928	0.54	
7.004	5758727	4958375	0.861	5.84	8 Aroclor 1260
7.035	403142	387360	0.961	0.40	
7.074	184894	144282	0.780	0.18	
7.119	265228	228158	0.860	0.26	
7.222	13381	12758	0.953	0.01	
7.251	2734027	2396985	0.877	2.77	8 Aroclor 1260
7.281	820489	659833	0.804	0.83	
7.389	1425190	1149698	0.807	1.44	
7.443	1703183	1432583	0.841	1.72	8 Aroclor 1260
7.551	117817	92437	0.785	0.11	
7.689	687512	621568	0.904	0.69	
7.726	117116	97309	0.831	0.11	
7.801	97116	77850	0.802	0.09	
7.899	1514488	1278627	0.844	1.53	8 Aroclor 1260
7.965	113517	82532	0.727	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.275	414964	357085	0.861	0.42	
8.376	12475	10001	0.802	0.01	
8.570	6381995	5470069	0.857	6.48	$ 12 Decachlorobiphenyl
8.938	11394	10346	0.908	0.01	
9.466	24676	14704	0.596	0.02	
	98460375	82524273		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 13-APR-2018 14:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 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	7071043	0.05000	0.057			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	1777286	0.50000	0.58	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1776269	0.50000	0.57	0.00- 20.00	99.94	BA
3.826	3.826	0.000	5044712	0.50000	0.57	0.00- 20.00	283.84	BA
3.928	3.929	-0.001	2155980	0.50000	0.57	0.00- 20.00	121.31	BA
3.994	3.994	0.000	1445687	0.50000	0.56	0.00- 20.00	81.34	BA
Average of Peak Amounts =					0.57000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	5063480	0.50000	0.57	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	5758726	0.50000	0.58	0.00- 20.00	113.73	CO
7.250	7.251	-0.001	2734027	0.50000	0.57	0.00- 20.00	54.00	CO
7.442	7.443	-0.001	1703182	0.50000	0.58	0.00- 20.00	33.64	CO
7.898	7.901	-0.003	1514488	0.50000	0.57	0.00- 20.00	29.91	CO
Average of Peak Amounts =					0.57400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	6381994	0.05000	0.058			

QC Flag Legend

M - Compound response manually integrated.

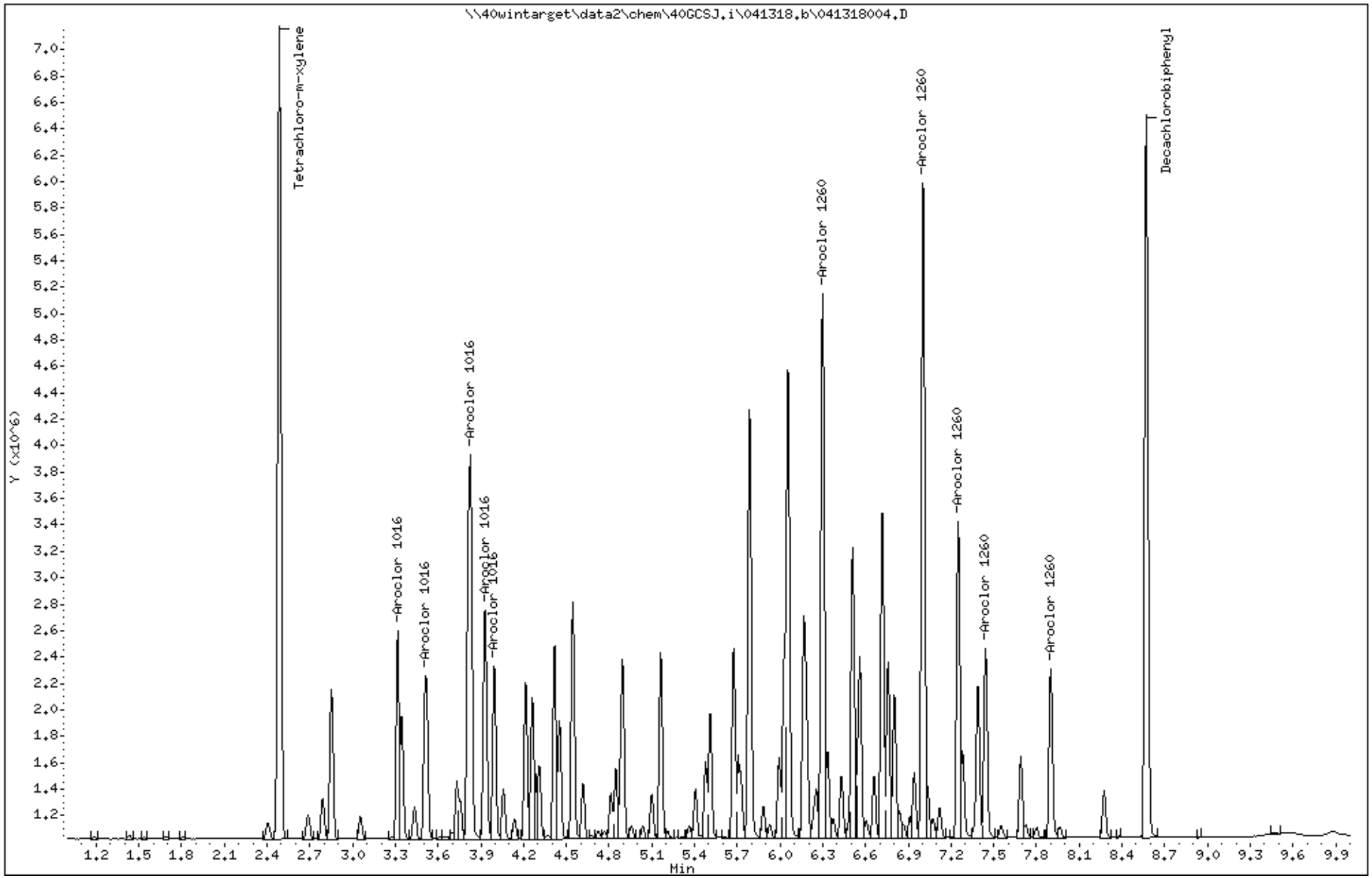
QC Flag Legend

Review Codes Legend

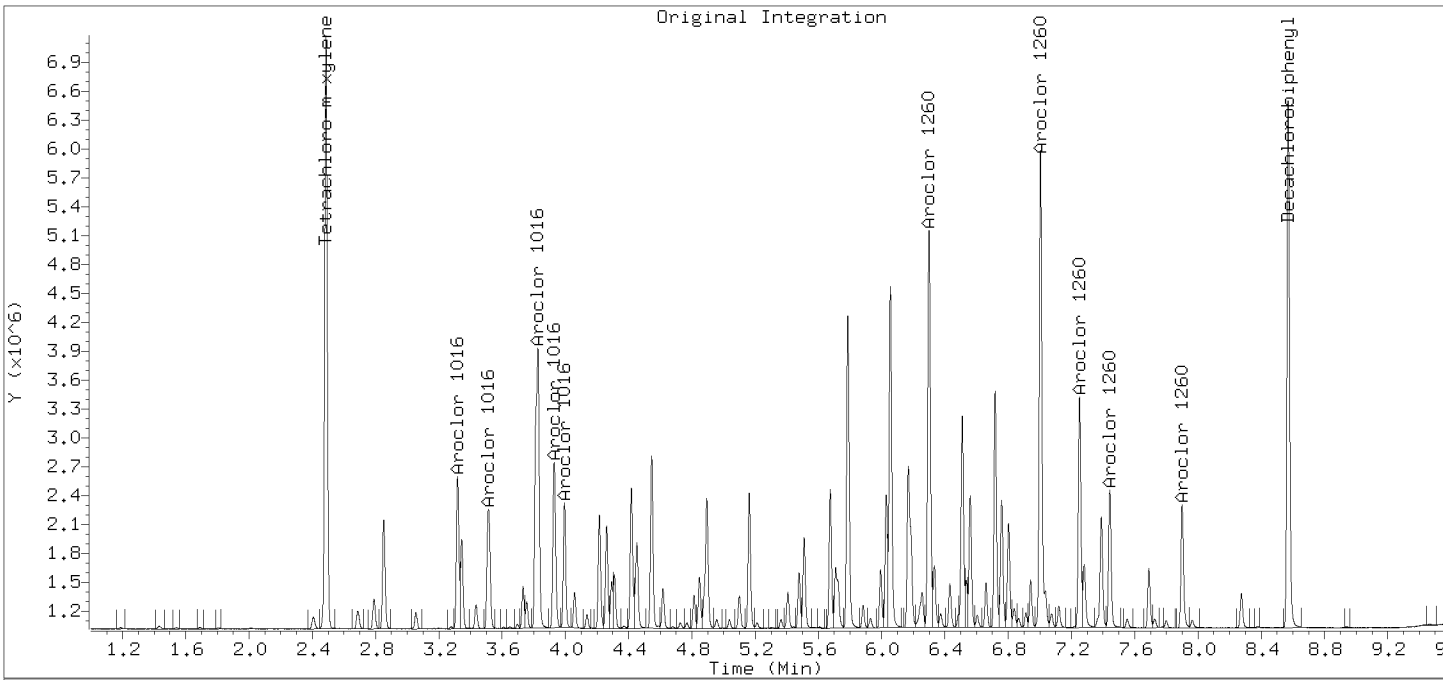
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

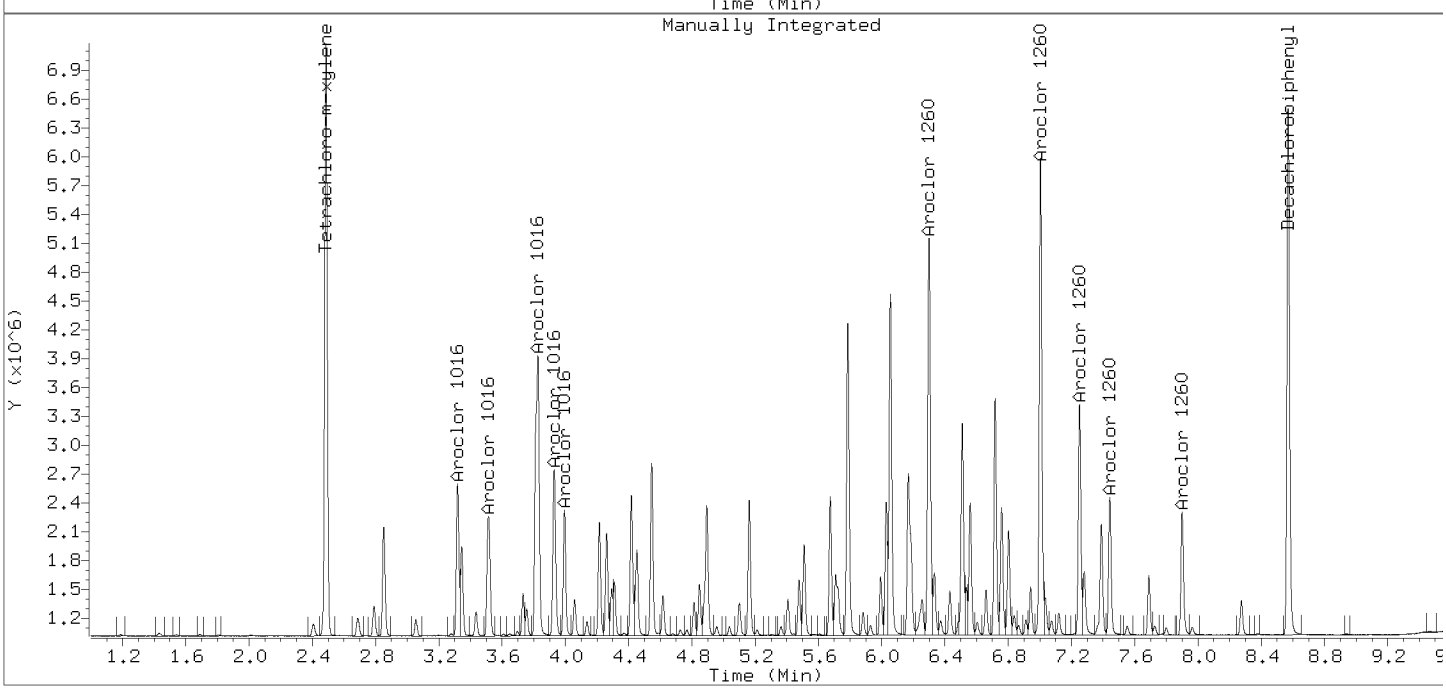
Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318004.D
Date : 13-APR-2018 14:33
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318004.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 13-APR-2018 14:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1767207	1777286	BA
Aroclor 1016	1767207	1777286	BA
Aroclor 1016	1767207	1777286	BA
Aroclor 1016	1767207	1777286	BA
Aroclor 1016	1767207	1777286	BA
Aroclor 1260	5039721	5063480	CO
Aroclor 1260	5039721	5063480	CO
Aroclor 1260	5039721	5063480	CO
Aroclor 1260	5039721	5063480	CO
Aroclor 1260	5039721	5063480	CO
Tetrachloro-m-xylene	7071043	7071043	
Decachlorobiphenyl	6381994	6381994	

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 13-APR-2018 17:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.429	35572	31950	0.898	0.19		
1.536	20305	13291	0.655	0.11		
1.683	11489	12119	1.055	0.06		
1.805	523973	433855	0.828	2.92	1 Aroclor 1221	BA
2.012	15126	12373	0.818	0.08		
2.197	170980	137777	0.806	0.95		
2.406	273988	196115	0.716	1.53	1 Aroclor 1221	BA
2.484	6183603	5679394	0.918	34.76	$ 2 Tetrachloro-m-xylene	BA
2.688	715504	580104	0.811	4.00	1 Aroclor 1221	BA
2.789	559835	505932	0.904	3.13	1 Aroclor 1221	BA
2.851	1718284	1500887	0.873	9.60	1 Aroclor 1221	BA
3.051	34459	28740	0.834	0.19		
3.278	125100	93208	0.745	0.69		
3.324	410492	229191	0.558	2.29		
3.434	36964	32464	0.878	0.20		
3.512	148129	108351	0.731	0.82		
3.608	20428	17820	0.872	0.11		
3.694	12339	10697	0.867	0.06		
3.731	43504	42912	0.986	0.24		
3.756	43720	38872	0.889	0.24		
3.826	340241	206410	0.607	1.90		
3.929	163179	137719	0.844	0.91		
3.994	97147	91329	0.940	0.54		
4.056	24621	17302	0.703	0.13		
4.213	41460	36173	0.872	0.23		
4.262	30742	31254	1.017	0.17		
4.295	15830	10118	0.639	0.08		
4.417	39642	39762	1.003	0.22		
4.445	33993	24275	0.714	0.19		
4.544	55694	48859	0.877	0.31		
4.616	16331	13476	0.825	0.09		
4.812	20567	21022	1.022	0.11		
4.849	35095	33221	0.947	0.19		
4.880	51731	36270	0.701	0.28		
5.037	32328	31494	0.974	0.18		
5.097	9329	8768	0.940	0.05		
5.160	9498	8086	0.851	0.05		

Data File: ...wintarget\data2\chem\40GCSJ.i\041318.b\041318016.D Page 2
Report Date: 19-Apr-2018 09:10

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.510	16409	12160	0.741	0.09	
6.021	13204	8003	0.606	0.07	
7.728	27168	23417	0.862	0.15	
7.800	28355	18827	0.664	0.15	
8.272	57850	44742	0.773	0.32	
8.374	12651	10359	0.819	0.07	
8.570	5608809	4686397	0.836	31.35	$ 12 Decachlorobiphenyl
	17885669	15305495		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 13-APR-2018 17:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:09 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 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	6183603	0.05000	0.050			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.804	1.804	0.000	523973	0.50000	0.50	0.00- 20.00	100.00	(M)	BA
2.406	2.407	-0.001	273988	0.50000	0.50	0.00- 20.00	52.29		BA
2.687	2.688	-0.001	715504	0.50000	0.52	0.00- 20.00	136.55		BA
2.788	2.789	-0.001	559834	0.50000	0.51	0.00- 20.00	106.84		BA
2.851	2.851	0.000	1718284	0.50000	0.53	0.00- 20.00	327.93		BA
Average of Peak Amounts =					0.51200				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.569	8.571	-0.002	5608809	0.05000	0.051				

QC Flag Legend

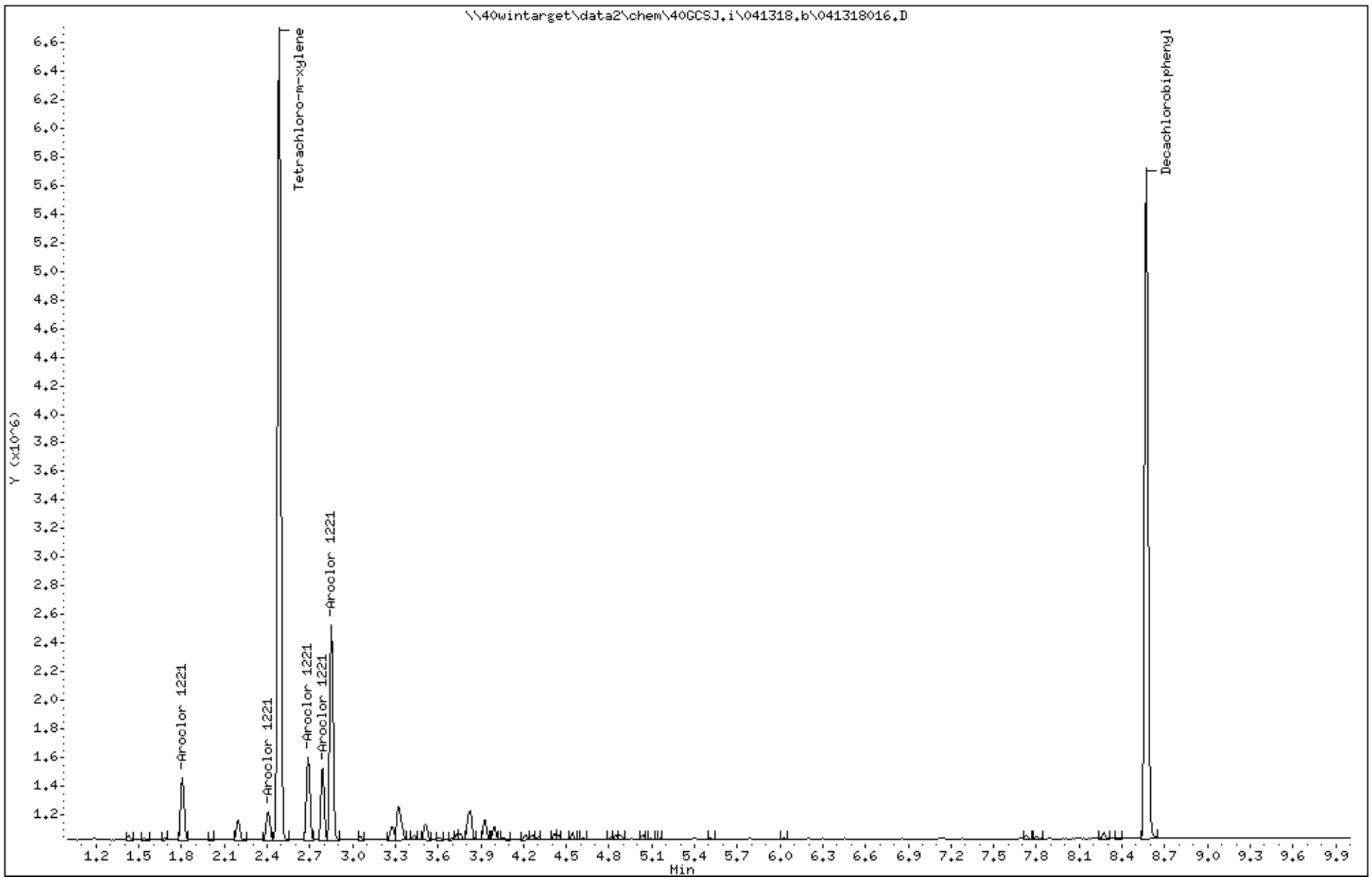
M - Compound response manually integrated.

Review Codes Legend

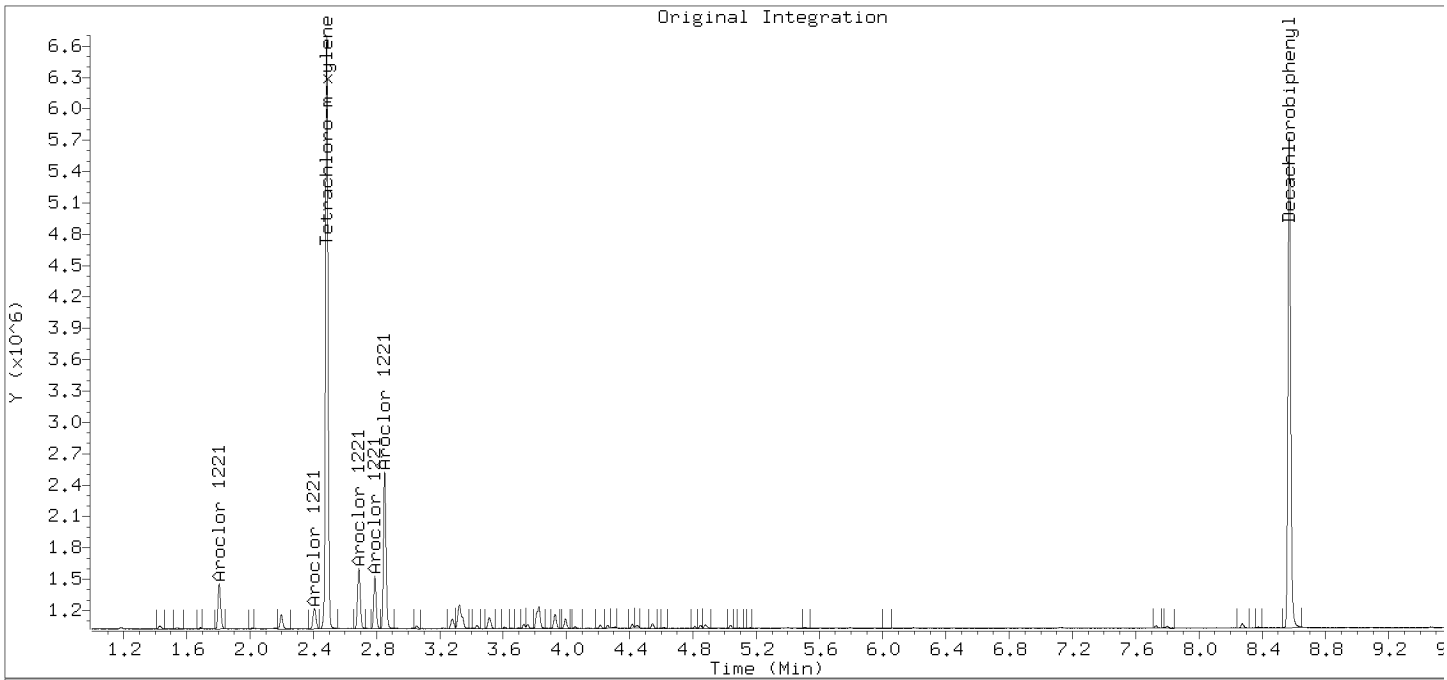
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

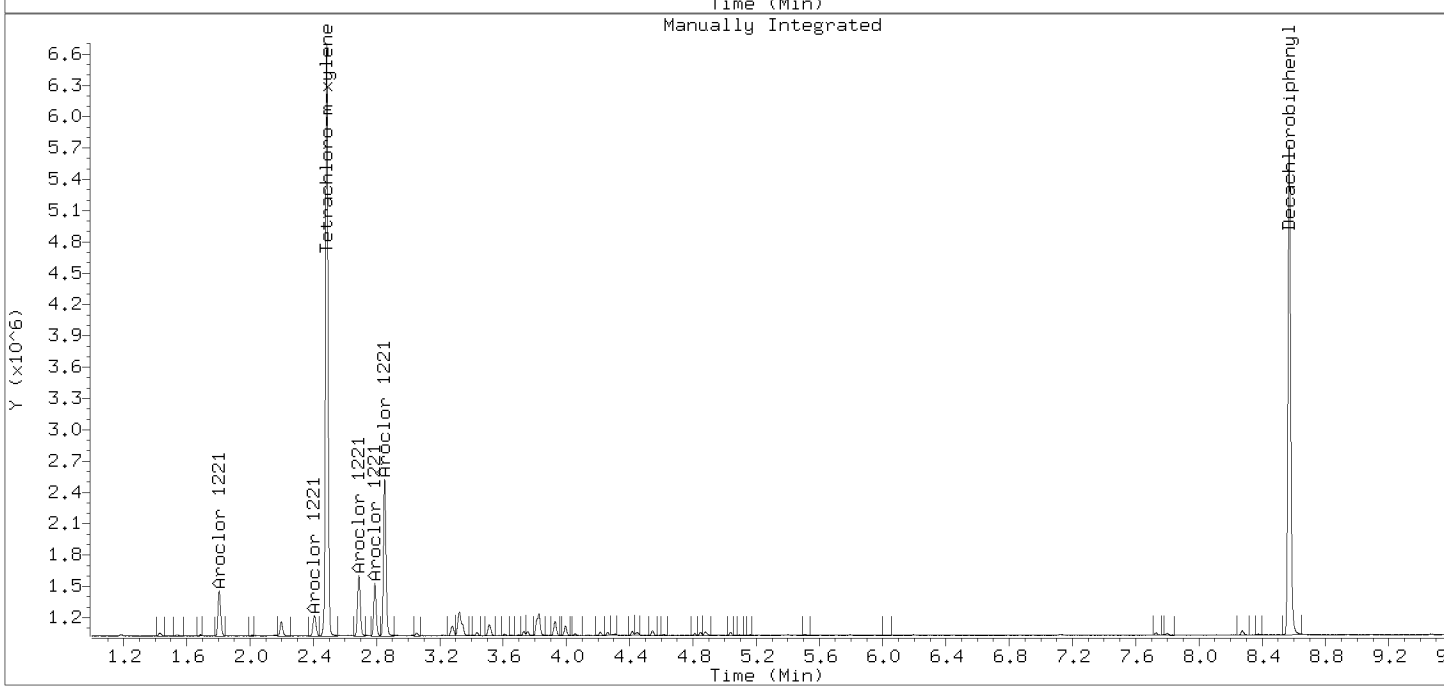
Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318016.D
Date : 13-APR-2018 17:43
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318016.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 13-APR-2018 17:43 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	515543	523973	BA
Aroclor 1221	515543	523973	BA
Aroclor 1221	515543	523973	BA
Aroclor 1221	515543	523973	BA
Aroclor 1221	515543	523973	BA
Tetrachloro-m-xylene	6156681	6183603	BA
Decachlorobiphenyl	5608809	5608809	

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 13-APR-2018 20:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 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: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	23661	17932	0.758	0.08		
1.429	38489	27439	0.713	0.13		
1.535	18649	14351	0.770	0.06		
1.686	37093	30941	0.834	0.12		
1.805	315222	245450	0.779	1.09		
2.196	101804	74837	0.735	0.35		
2.407	210536	149046	0.708	0.73		
2.485	6074380	5393976	0.888	21.63	$ 2 Tetrachloro-m-xylene	
2.688	461144	359629	0.780	1.60		
2.789	424148	381141	0.899	1.47		
2.851	1381203	1195746	0.866	4.81	4 Aroclor 1232	BA
3.053	94421	76148	0.806	0.32		
3.281	78688	58579	0.744	0.27		
3.319	796604	689108	0.865	2.77		
3.344	420880	383626	0.911	1.46		
3.435	125025	107826	0.862	0.43		
3.512	717670	512208	0.714	2.50	4 Aroclor 1232	BA
3.607	22523	19986	0.887	0.07		
3.644	16912	11123	0.658	0.05		
3.697	27088	23708	0.875	0.09		
3.730	189587	184516	0.973	0.66		
3.755	153387	123514	0.805	0.53		
3.826	2087589	1216132	0.583	7.28	4 Aroclor 1232	BA
3.929	883864	740216	0.837	3.08	4 Aroclor 1232	BA
3.994	590315	554411	0.939	2.05	4 Aroclor 1232	BA
4.058	162217	138815	0.856	0.56		
4.136	65396	53342	0.816	0.22		
4.214	422456	391611	0.927	1.47		
4.260	412138	389518	0.945	1.43		
4.292	180191	177563	0.985	0.62		
4.310	211344	197819	0.936	0.73		
4.372	23491	16340	0.696	0.08		
4.417	581066	534952	0.921	2.02		
4.451	470544	329295	0.700	1.64		
4.545	735726	683026	0.928	2.56		
4.617	176394	158267	0.897	0.61		
4.675	18143	12024	0.663	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.726	38886	33251	0.855	0.13	
4.767	43016	36894	0.858	0.15	
4.812	336592	311443	0.925	1.17	
4.847	597362	564793	0.945	2.08	
4.878	764108	588613	0.770	2.66	
4.958	79798	65152	0.816	0.27	
5.037	642048	576891	0.899	2.24	
5.097	117618	88502	0.752	0.41	
5.163	139543	123785	0.887	0.48	
5.212	97513	89303	0.916	0.34	
5.310	25155	21364	0.849	0.08	
5.362	92752	72508	0.782	0.32	
5.407	147710	118225	0.800	0.51	
5.445	92102	79633	0.865	0.32	
5.509	247885	183143	0.739	0.86	
5.605	72846	61702	0.847	0.25	
5.672	15256	12887	0.845	0.05	
5.739	25184	17189	0.683	0.08	
5.791	165318	130607	0.790	0.57	
5.889	25263	14380	0.569	0.08	
6.023	128058	112034	0.875	0.44	
6.053	29840	28169	0.944	0.10	
6.298	43181	35766	0.828	0.15	
6.510	11295	12453	1.103	0.03	
6.717	16426	13919	0.847	0.05	
6.758	10632	9461	0.890	0.03	
6.802	9708	10688	1.101	0.03	
7.003	24779	22663	0.915	0.08	
7.122	20710	12560	0.606	0.07	
7.250	13411	14258	1.063	0.04	
7.441	10310	8900	0.863	0.03	
7.681	10475	6837	0.653	0.03	
7.729	30601	24872	0.813	0.10	
7.765	10878	7077	0.651	0.03	
7.798	26740	19237	0.719	0.09	
7.901	10305	8975	0.871	0.03	
8.273	56509	47263	0.836	0.19	
8.375	16676	11392	0.683	0.05	
8.569	5636339	4749490	0.843	19.66	$ 12 Decachlorobiphenyl
8.943	14264	9872	0.692	0.04	
9.958	14957	9238	0.618	0.05	
	28662043	24039550		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 13-APR-2018 20:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 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: 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	6074380	0.05000	0.049			
4 Aroclor 1232					CAS #: 1114-16-5			
2.851	2.851	0.000	1381203	0.50000	0.55	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	717670	0.50000	0.54	0.00- 20.00	51.96	BA
3.826	3.827	-0.001	2087589	0.50000	0.56	0.00- 20.00	151.14	BA
3.928	3.929	-0.001	883863	0.50000	0.55	0.00- 20.00	63.99	BA
3.993	3.995	-0.002	590314	0.50000	0.54	0.00- 20.00	42.74	BA
Average of Peak Amounts =					0.54800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5636338	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\041318.b\041318028.D

Date : 13-APR-2018 20:53

Client ID: 1232-CCV

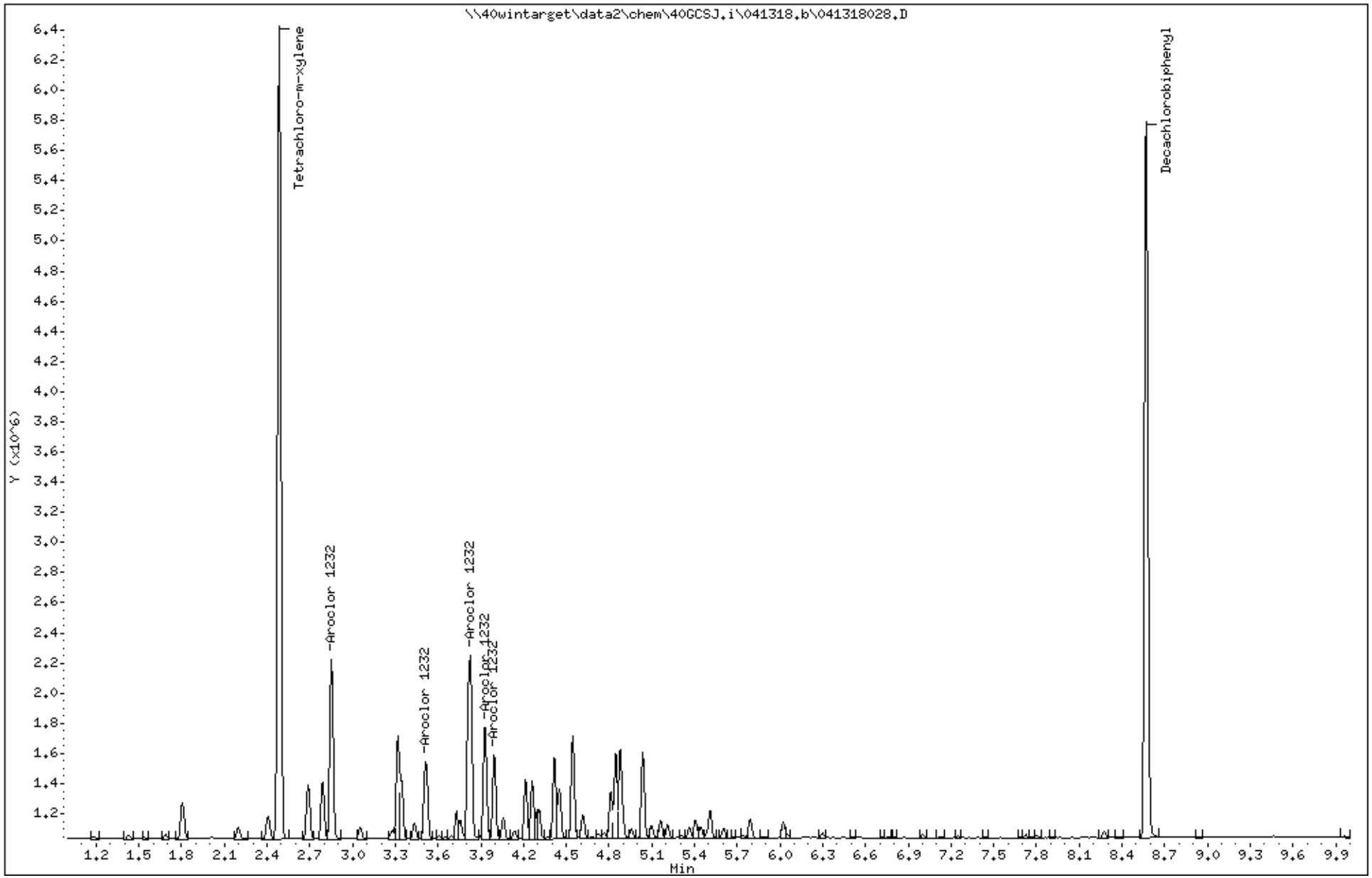
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

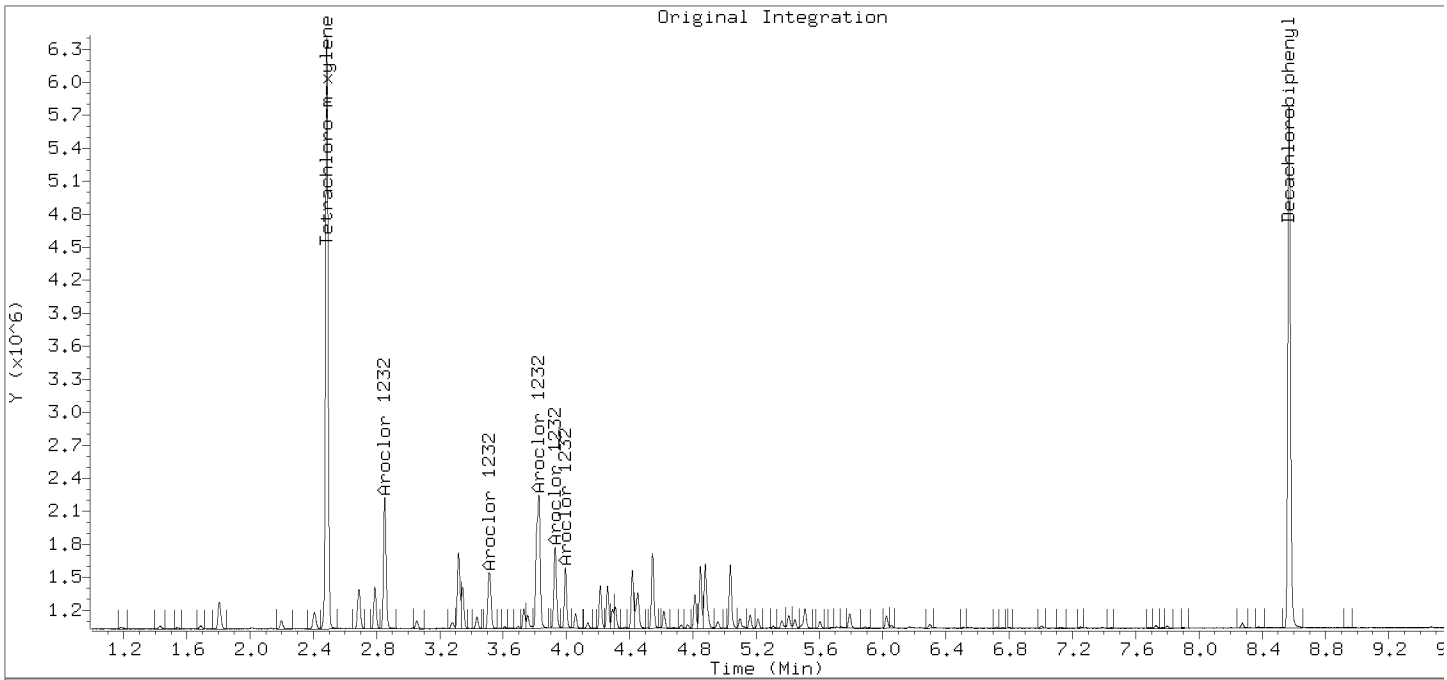
Operator: BLM

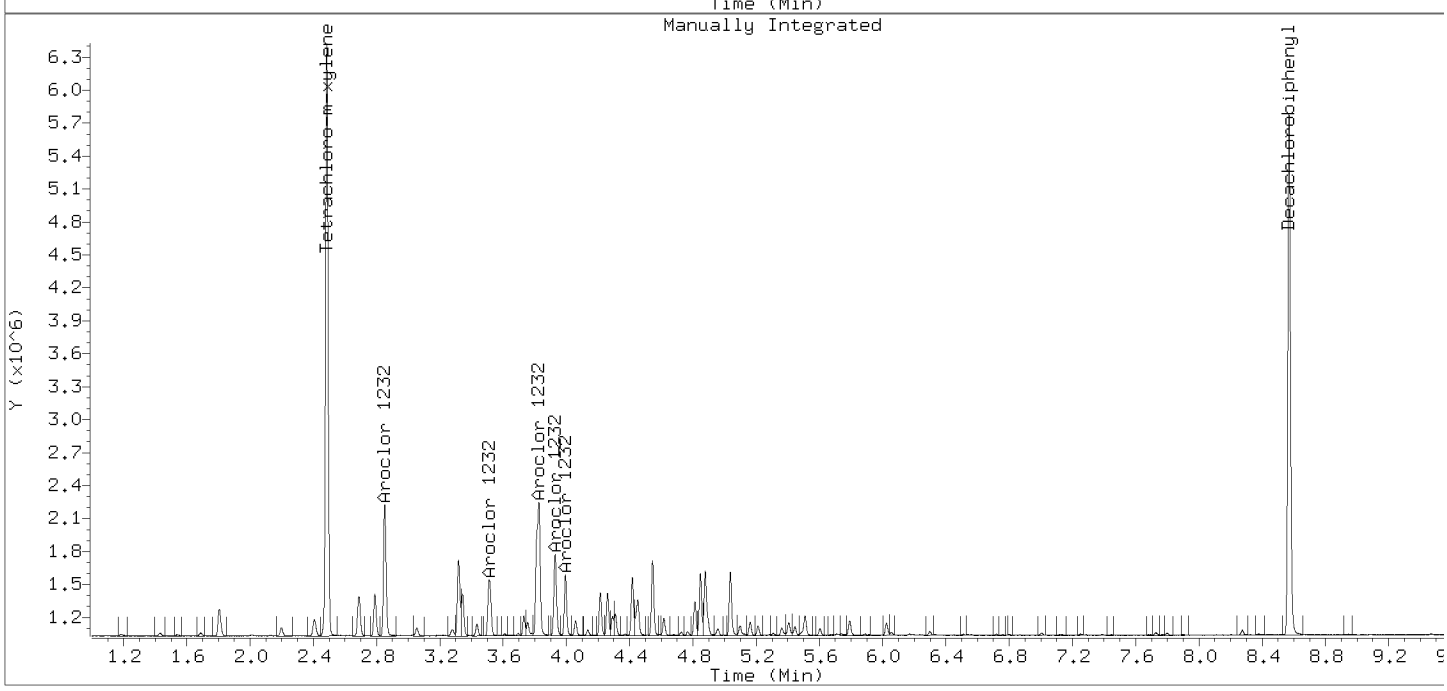
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318028.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 13-APR-2018 20:53 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1365474	1381203	BA
Aroclor 1232	1365474	1381203	BA
Aroclor 1232	1365474	1381203	BA
Aroclor 1232	1365474	1381203	BA
Aroclor 1232	1365474	1381203	BA
Tetrachloro-m-xylene	6074380	6074380	
Decachlorobiphenyl	5636338	5636338	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 17-APR-2018 11:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 09:58 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
1.429	43569	31529	0.724	0.09		
1.541	18585	13149	0.708	0.04		
1.684	16489	11178	0.678	0.03		
2.400	29459	18640	0.633	0.06		
2.485	6196709	5658637	0.913	14.42	$ 2 Tetrachloro-m-xylene	
2.689	36952	27034	0.732	0.08		
2.789	118158	104351	0.883	0.26		
2.851	191638	169661	0.885	0.43		
3.054	65244	55556	0.852	0.14		
3.317	725853	690295	0.951	1.63		
3.344	309007	281786	0.912	0.69		
3.434	69039	60183	0.872	0.15		
3.515	611684	439221	0.718	1.38		
3.611	16993	17367	1.022	0.03		
3.732	133344	129229	0.969	0.30		
3.756	59199	55501	0.938	0.13		
3.814	1021605	1186655	1.162	2.30		
3.826	1330794	1243183	0.934	3.00		
3.931	901160	681698	0.756	2.03		
3.994	583814	540813	0.926	1.31		
4.060	364232	328437	0.902	0.82		
4.137	147485	133742	0.907	0.33		
4.215	1520286	1410084	0.928	3.43		
4.261	1206263	1125830	0.933	2.72	6 Aroclor 1248	BA
4.293	502385	502715	1.001	1.13		
4.309	534783	500101	0.935	1.20		
4.418	1832381	1691891	0.923	4.13		
4.453	916105	775236	0.846	2.06		
4.545	2087634	1902408	0.911	4.71	6 Aroclor 1248	BA
4.590	37049	37197	1.004	0.08		
4.618	484995	452551	0.933	1.09		
4.678	30702	21718	0.707	0.06		
4.729	60740	49522	0.815	0.13		
4.768	113293	102301	0.903	0.25		
4.813	983273	953536	0.970	2.22	6 Aroclor 1248	BA
4.848	1928661	1753521	0.909	4.35		
4.879	2508567	1587016	0.633	5.66	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.957	319974	254016	0.794	0.72	
5.038	1740570	1577075	0.906	3.93	6 Aroclor 1248
5.099	673834	534241	0.793	1.52	
5.163	779011	700619	0.899	1.75	
5.213	562628	497255	0.884	1.27	
5.284	47069	37192	0.790	0.10	
5.310	128253	106821	0.833	0.28	
5.363	481427	411742	0.855	1.08	
5.407	825067	685571	0.831	1.86	
5.446	499964	432975	0.866	1.12	
5.510	1362034	1100889	0.808	3.07	
5.604	394254	332857	0.844	0.89	
5.674	48277	41756	0.865	0.10	
5.718	86751	60037	0.692	0.19	
5.741	119486	83426	0.698	0.26	
5.793	885069	685724	0.775	1.99	
5.889	128996	75195	0.583	0.29	
5.994	30583	29325	0.959	0.06	
6.025	708618	624549	0.881	1.60	
6.056	181309	136156	0.751	0.40	
6.171	93584	54689	0.584	0.21	
6.300	235137	191444	0.814	0.53	
6.335	53915	38755	0.719	0.12	
6.375	38523	29486	0.765	0.08	
6.432	18955	12994	0.686	0.04	
6.511	39720	39543	0.996	0.08	
6.538	95085	62900	0.662	0.21	
6.609	14818	13108	0.885	0.03	
6.718	38995	36129	0.927	0.08	
6.760	22090	19177	0.868	0.04	
6.805	40614	33292	0.820	0.09	
6.844	26412	14138	0.535	0.05	
7.006	85528	62014	0.725	0.19	
7.124	33322	20241	0.607	0.07	
7.253	31139	24231	0.778	0.07	
7.388	36011	26824	0.745	0.08	
7.445	32293	29789	0.922	0.07	
7.693	21203	18547	0.875	0.04	
7.728	36379	32093	0.882	0.08	
7.799	29045	24383	0.839	0.06	
7.901	31208	22515	0.721	0.07	
8.277	70977	57034	0.804	0.16	
8.572	5376799	4439626	0.826	12.14	$ 12 Decachlorobiphenyl
9.474	10613	7956	0.750	0.02	
9.875	18357	10987	0.599	0.04	
	44272026	38472788		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 17-APR-2018 11:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 09:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6196709	0.05000	0.050			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1206262	0.50000	0.51	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2087633	0.50000	0.50	0.00- 20.00	173.07	BA
4.813	4.812	0.001	983273	0.50000	0.48	0.00- 20.00	81.51	BA
4.879	4.879	0.000	2508567	0.50000	0.50	0.00- 20.00	207.96	BA
5.037	5.038	-0.001	1740570	0.50000	0.48	0.00- 20.00	144.29	BA
Average of Peak Amounts =					0.49400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5376798	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\041718.b\041718004.D

Date : 17-APR-2018 11:55

Client ID: 1248-CCV

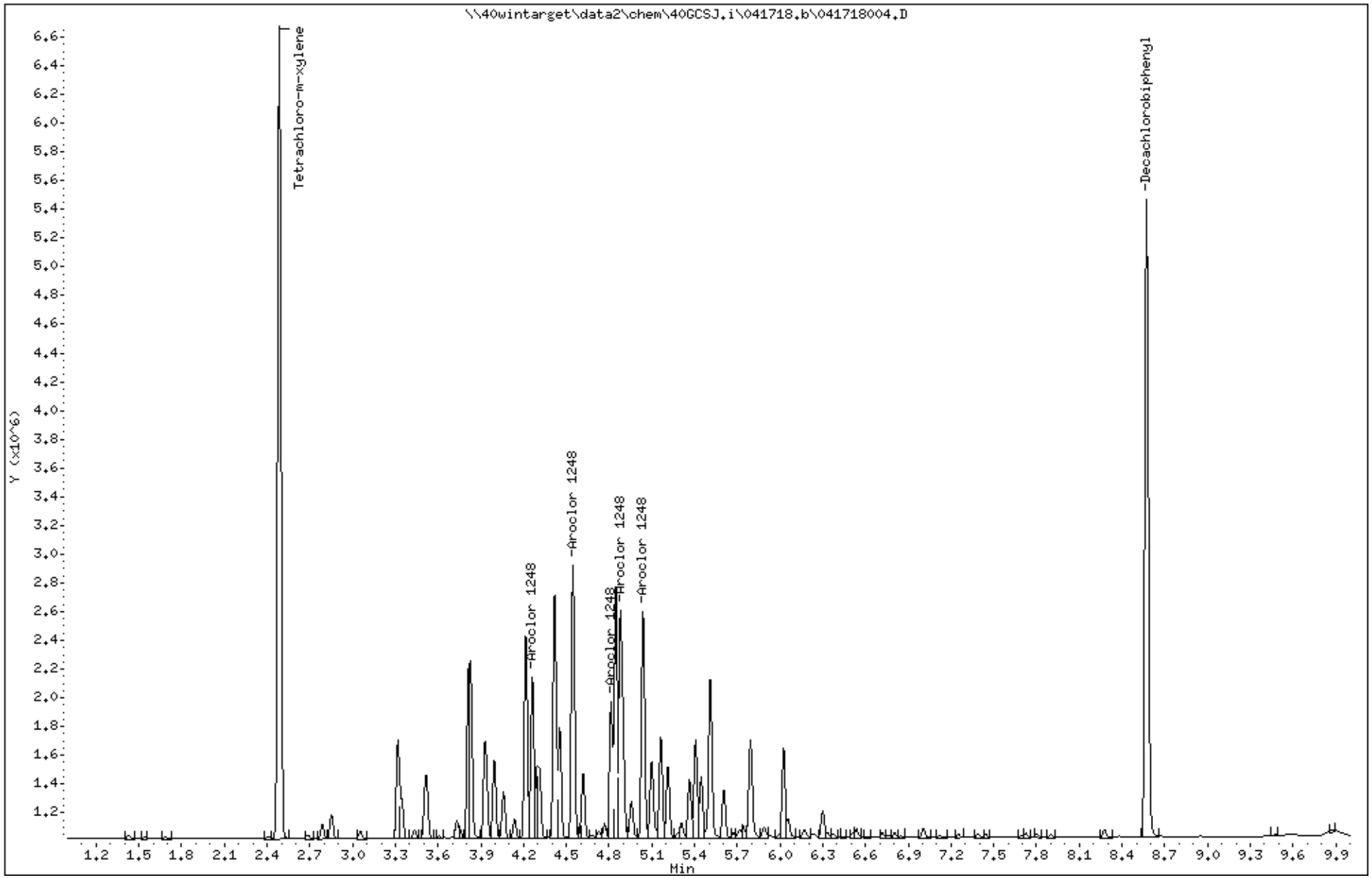
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

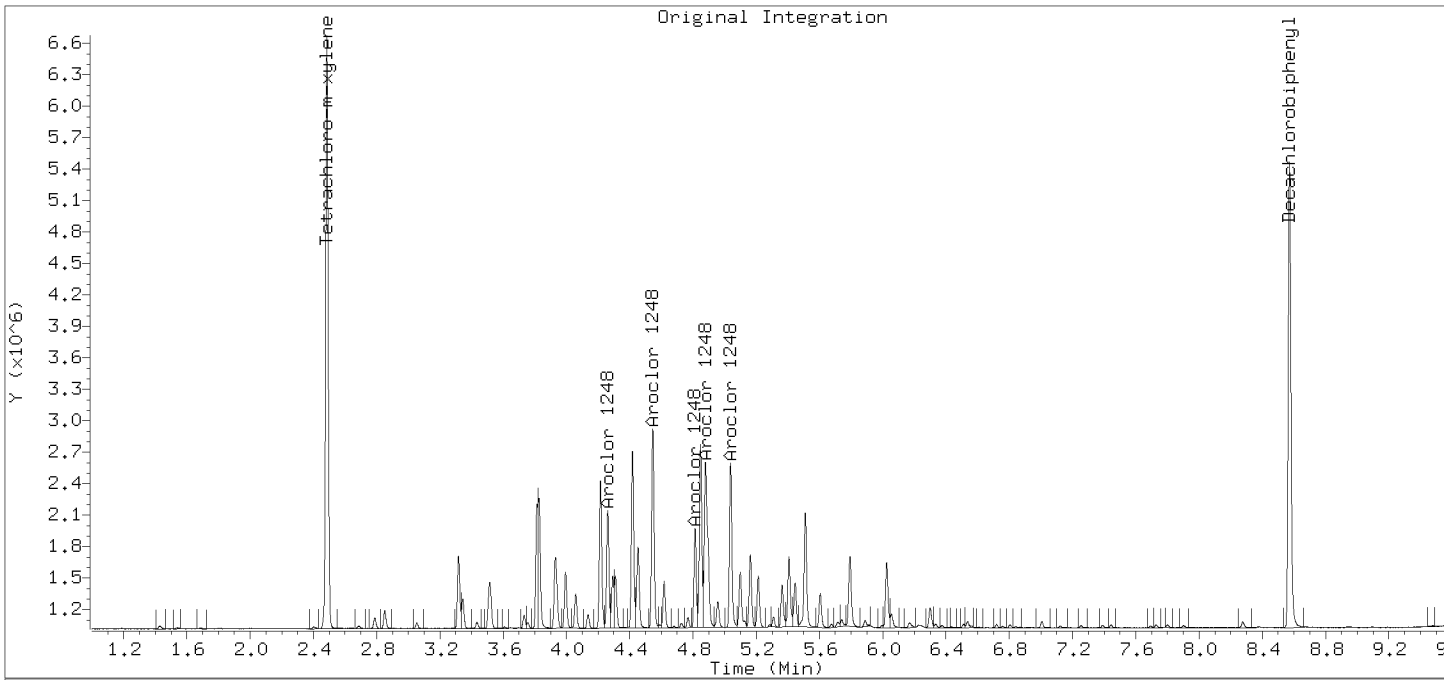
Operator: BLM

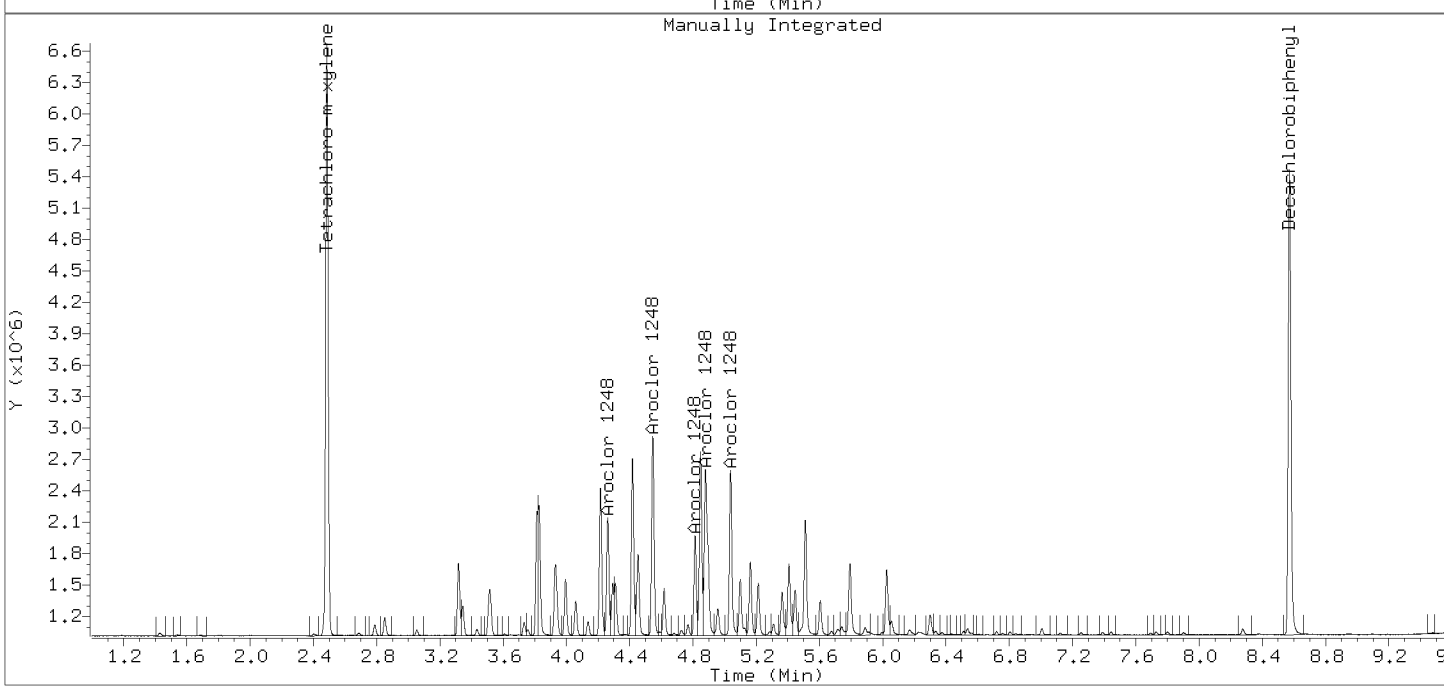
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718004.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 17-APR-2018 11:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1193496	1206262	BA
Aroclor 1248	1193496	1206262	BA
Aroclor 1248	1193496	1206262	BA
Aroclor 1248	1193496	1206262	BA
Aroclor 1248	1193496	1206262	BA
Tetrachloro-m-xylene	6196709	6196709	
Decachlorobiphenyl	5376798	5376798	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 17-APR-2018 15:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 09:58 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
1.184	25329	18742	0.740	0.04		
1.430	41554	31302	0.753	0.07		
1.537	19250	13652	0.709	0.03		
1.685	14594	12343	0.846	0.02		
2.011	16667	12707	0.762	0.02		
2.484	6555724	6018062	0.918	11.93	$ 2 Tetrachloro-m-xylene	
2.788	95198	87183	0.916	0.16		
2.854	24485	20202	0.825	0.04		
3.053	25375	18332	0.722	0.04		
3.317	33730	29113	0.863	0.05		
3.343	16752	17038	1.017	0.02		
3.513	34403	22358	0.650	0.06		
3.610	24347	18459	0.758	0.04		
3.727	12045	11215	0.931	0.02		
3.778	16549	14611	0.883	0.02		
3.814	114681	62525	0.545	0.20		
3.931	63471	45643	0.719	0.11		
3.992	32924	28279	0.859	0.05		
4.056	34080	22001	0.646	0.05		
4.135	9853	8960	0.909	0.01		
4.214	1334242	1240796	0.930	2.33		
4.261	356544	345386	0.969	0.62		
4.292	65167	48158	0.739	0.11		
4.416	824008	792112	0.961	1.44		
4.452	87187	77559	0.890	0.15		
4.545	372307	339951	0.913	0.65		
4.591	17830	17496	0.981	0.03		
4.616	65017	59898	0.921	0.11		
4.682	21227	16215	0.764	0.03		
4.769	18810	20709	1.101	0.03		
4.812	306460	297447	0.971	0.53		
4.847	1190793	1132982	0.951	2.08		
4.893	2607866	2095475	0.804	4.56		
4.957	420598	383288	0.911	0.73		
5.037	254345	234246	0.921	0.44		
5.099	1528152	1323724	0.866	2.67		
5.162	2805150	2563410	0.914	4.90	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.211	1285094	1166123	0.907	2.24	
5.283	64830	62916	0.970	0.11	
5.308	232264	209698	0.903	0.40	
5.362	1118048	1023091	0.915	1.95	
5.406	2326257	2095060	0.901	4.06	7 Aroclor 1254
5.445	798226	726107	0.910	1.39	
5.477	285181	275534	0.966	0.49	
5.509	4178678	3700064	0.885	7.31	7 Aroclor 1254
5.576	33543	35359	1.054	0.05	
5.604	584036	511320	0.875	1.02	
5.675	381293	348466	0.914	0.66	
5.713	573980	380955	0.664	1.00	
5.741	361640	295795	0.818	0.63	
5.790	4217232	3197006	0.758	7.37	
5.883	366064	285191	0.779	0.64	
5.927	198674	125385	0.631	0.34	
5.993	350037	335083	0.957	0.61	
6.025	2630715	2204444	0.838	4.60	7 Aroclor 1254
6.056	1920282	1540368	0.802	3.35	
6.169	759205	641007	0.844	1.32	
6.225	309714	313277	1.012	0.54	
6.240	351226	303271	0.863	0.61	
6.298	3520824	2884245	0.819	6.15	7 Aroclor 1254
6.332	630172	558819	0.887	1.10	
6.373	356530	302505	0.848	0.62	
6.436	90910	54574	0.600	0.15	
6.484	19470	17834	0.916	0.03	
6.510	128380	134501	1.048	0.22	
6.536	1191963	950336	0.797	2.08	
6.605	171966	139869	0.813	0.30	
6.660	30177	26093	0.865	0.05	
6.717	235416	199227	0.846	0.41	
6.757	138125	124258	0.900	0.24	
6.802	653431	567298	0.868	1.14	
6.842	180929	116713	0.645	0.31	
6.943	62848	54008	0.859	0.10	
7.004	473969	389952	0.823	0.82	
7.075	21069	16795	0.797	0.03	
7.119	21758	12507	0.575	0.03	
7.252	356540	316104	0.887	0.62	
7.389	21545	16514	0.766	0.03	
7.441	30664	23898	0.779	0.05	
7.551	28066	17035	0.607	0.04	
7.689	14732	16006	1.087	0.02	
7.727	32671	24124	0.738	0.05	
7.800	30573	20709	0.677	0.05	
7.900	24093	22346	0.928	0.04	
8.275	62025	48726	0.786	0.10	
8.376	21321	12037	0.565	0.03	
8.571	5761306	4798735	0.833	10.07	$ 12 Decachlorobiphenyl
8.938	9657	6178	0.640	0.01	
9.082	10292	7292	0.709	0.01	
9.464	13077	8631	0.660	0.02	
	57157432	49164968		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 17-APR-2018 15:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 09:58 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	6555724	0.05000	0.053			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2805149	0.50000	0.54	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	2326257	0.50000	0.54	0.00- 20.00	82.93	BA
5.508	5.510	-0.002	4178677	0.50000	0.54	0.00- 20.00	148.96	BA
6.025	6.027	-0.002	2630715	0.50000	0.54	0.00- 20.00	93.78	BA
6.297	6.299	-0.002	3520823	0.50000	0.54	0.00- 20.00	125.51	BA
Average of Peak Amounts =					0.54000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5761305	0.05000	0.052			

QC Flag Legend

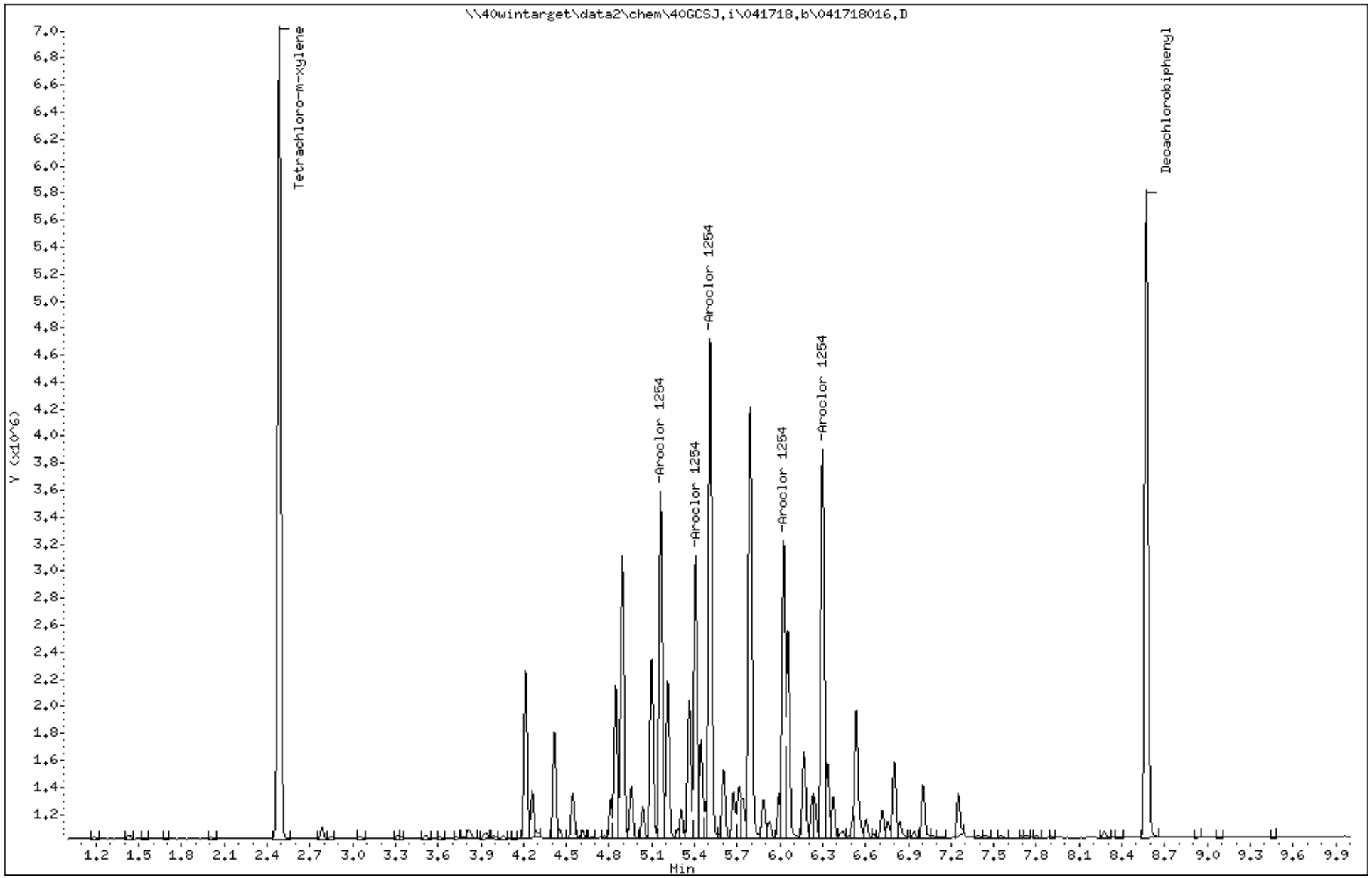
M - Compound response manually integrated.

Review Codes Legend

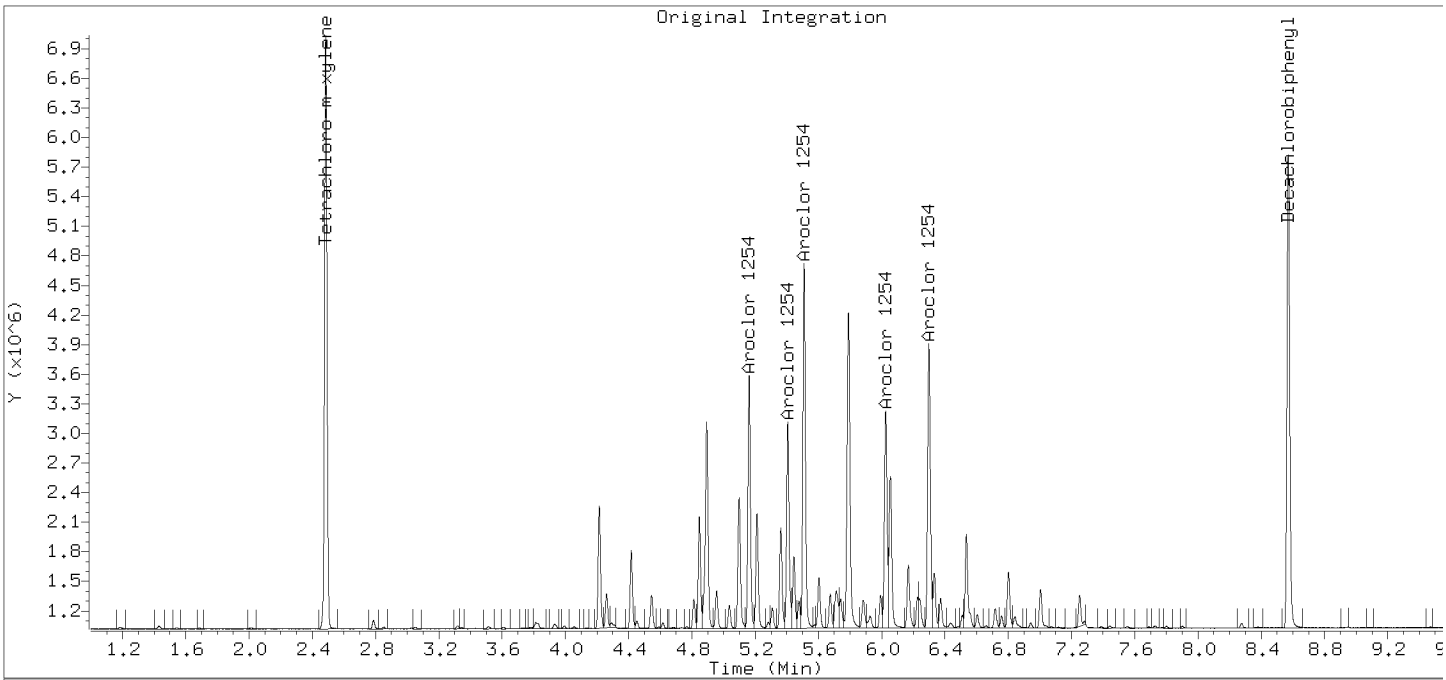
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

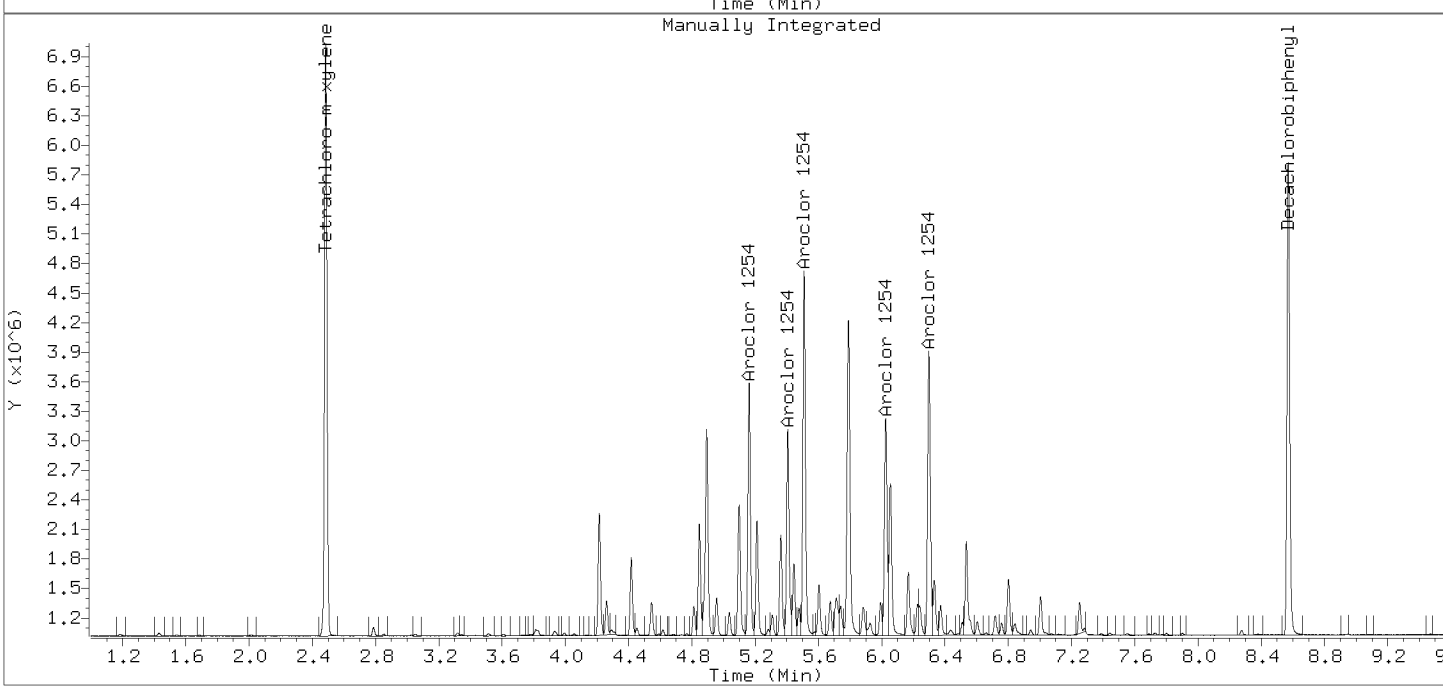
Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718016.D
Date : 17-APR-2018 15:06
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718016.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 17-APR-2018 15:06 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2801954	2805149	BA
Aroclor 1254	2801954	2805149	BA
Aroclor 1254	2801954	2805149	BA
Aroclor 1254	2801954	2805149	BA
Aroclor 1254	2801954	2805149	BA
Tetrachloro-m-xylene	6555724	6555724	
Decachlorobiphenyl	5761305	5761305	

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718028.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 17-APR-2018 18:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	37649	28392	0.754	0.04		
1.430	44963	33511	0.745	0.05		
1.535	16386	14135	0.863	0.01		
1.684	10642	8763	0.823	0.01		
1.804	20197	14759	0.731	0.02		
2.011	24120	16772	0.695	0.02		
2.195	9292	8052	0.867	0.01		
2.404	145475	112442	0.773	0.16		
2.484	6289151	5903749	0.939	7.63	$ 2 Tetrachloro-m-xylene	
2.686	214567	175173	0.816	0.24		
2.788	320946	289141	0.901	0.36		
2.850	1168411	1065334	0.912	1.32		
3.028	10497	12375	1.179	0.01		
3.053	170598	155350	0.911	0.19		
3.275	27973	20922	0.748	0.03		
3.318	1589016	1473962	0.928	1.80	5 Aroclor 1016	BA
3.343	913553	844666	0.925	1.03		
3.434	251811	232175	0.922	0.28		
3.513	1590084	1140827	0.717	1.80	5 Aroclor 1016	BA
3.607	24372	20650	0.847	0.02		
3.647	27687	19135	0.691	0.03		
3.696	47831	43298	0.905	0.05		
3.732	407179	397983	0.977	0.46		
3.755	270005	256946	0.952	0.30		
3.825	4581965	2691502	0.587	5.19	5 Aroclor 1016	BA
3.929	1959817	1575403	0.804	2.22	5 Aroclor 1016	BA
3.993	1312816	1259570	0.959	1.48	5 Aroclor 1016	BA
4.058	384943	339961	0.883	0.43		
4.135	147658	129959	0.880	0.16		
4.214	1140287	1078066	0.945	1.29		
4.261	1030643	981818	0.953	1.16		
4.292	419390	437632	1.043	0.47		
4.310	544635	497598	0.914	0.61		
4.371	41785	26123	0.625	0.04		
4.417	1428800	1315029	0.920	1.61		
4.451	1048061	793428	0.757	1.18		
4.545	1805197	1645411	0.911	2.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.590	25489	25550	1.002	0.02	
4.617	407013	366140	0.900	0.46	
4.680	28120	20997	0.747	0.03	
4.727	66949	56237	0.840	0.07	
4.769	58569	53373	0.911	0.06	
4.812	336204	319116	0.949	0.38	
4.846	518064	484459	0.935	0.58	
4.894	1643534	1222866	0.744	1.86	
4.955	107178	83615	0.780	0.12	
5.037	97679	85892	0.879	0.11	
5.100	347740	297357	0.855	0.39	
5.162	1357439	1252952	0.923	1.53	
5.212	65035	50234	0.772	0.07	
5.250	14796	9012	0.609	0.01	
5.309	20773	14565	0.701	0.02	
5.362	93582	85864	0.918	0.10	
5.407	383844	343252	0.894	0.43	
5.445	16157	16523	1.023	0.01	
5.477	536670	514810	0.959	0.60	
5.509	956044	867562	0.907	1.08	
5.603	22155	14785	0.667	0.02	
5.675	1378708	1272704	0.923	1.56	
5.709	990123	546981	0.552	1.12	
5.786	3404269	2826669	0.830	3.85	
5.881	230711	207763	0.901	0.26	
5.928	108281	89930	0.831	0.12	
5.993	577456	545662	0.945	0.65	
6.029	1304549	1269693	0.973	1.47	
6.055	3787255	3221406	0.851	4.29	
6.169	2421155	1553761	0.642	2.74	
6.255	542630	317800	0.586	0.61	
6.299	4595937	3613609	0.786	5.21	8 Aroclor 1260
6.333	659685	600207	0.910	0.74	
6.373	166005	128637	0.775	0.18	
6.431	469695	406251	0.865	0.53	
6.490	108185	128630	1.189	0.12	
6.509	2245275	1931630	0.860	2.54	
6.534	404017	469557	1.162	0.45	
6.559	1410643	1230649	0.872	1.59	
6.604	154373	124091	0.804	0.17	
6.660	436698	390412	0.894	0.49	
6.717	2401395	2134333	0.889	2.72	
6.758	1343450	1192041	0.887	1.52	
6.802	1121449	1001930	0.893	1.27	
6.838	206216	172520	0.837	0.23	
6.866	105271	91681	0.871	0.11	
6.912	154567	137753	0.891	0.17	
6.942	478327	437869	0.915	0.54	
7.003	5213906	4722191	0.906	5.91	8 Aroclor 1260
7.034	358110	337633	0.943	0.40	
7.074	156821	129039	0.823	0.17	
7.120	228166	200551	0.879	0.25	
7.250	2506706	2276808	0.908	2.84	8 Aroclor 1260
7.280	725835	580074	0.799	0.82	
7.388	1256346	1049856	0.836	1.42	
7.442	1520236	1316107	0.866	1.72	8 Aroclor 1260
7.552	112382	87017	0.774	0.12	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.690	611278	540807	0.885	0.69	
7.725	95414	78575	0.824	0.10	
7.800	78278	62798	0.802	0.08	
7.900	1380169	1130433	0.819	1.56	8 Aroclor 1260
7.963	101476	78021	0.769	0.11	
8.273	354204	313339	0.885	0.40	
8.378	19207	14980	0.780	0.02	
8.569	5661016	4836216	0.854	6.41	$ 12 Decachlorobiphenyl
8.940	13300	10723	0.806	0.01	
9.469	13132	9853	0.750	0.01	
9.955	13295	9722	0.731	0.01	
	88207040	75074085		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718028.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 17-APR-2018 18:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6289151	0.05000	0.051			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1589016	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	1590084	0.50000	0.51	0.00- 20.00	100.07	BA
3.825	3.826	-0.001	4581964	0.50000	0.52	0.00- 20.00	288.35	BA
3.928	3.929	-0.001	1959816	0.50000	0.52	0.00- 20.00	123.34	BA
3.993	3.994	-0.001	1312816	0.50000	0.50	0.00- 20.00	82.62	BA
Average of Peak Amounts =					0.51400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	4595937	0.50000	0.52	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	5213906	0.50000	0.52	0.00- 20.00	113.45	BA
7.250	7.251	-0.001	2506705	0.50000	0.52	0.00- 20.00	54.54	BA
7.441	7.443	-0.002	1520235	0.50000	0.52	0.00- 20.00	33.08	BA
7.899	7.901	-0.002	1380168	0.50000	0.52	0.00- 20.00	30.03	BA
Average of Peak Amounts =					0.52000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5661015	0.05000	0.052			

QC Flag Legend

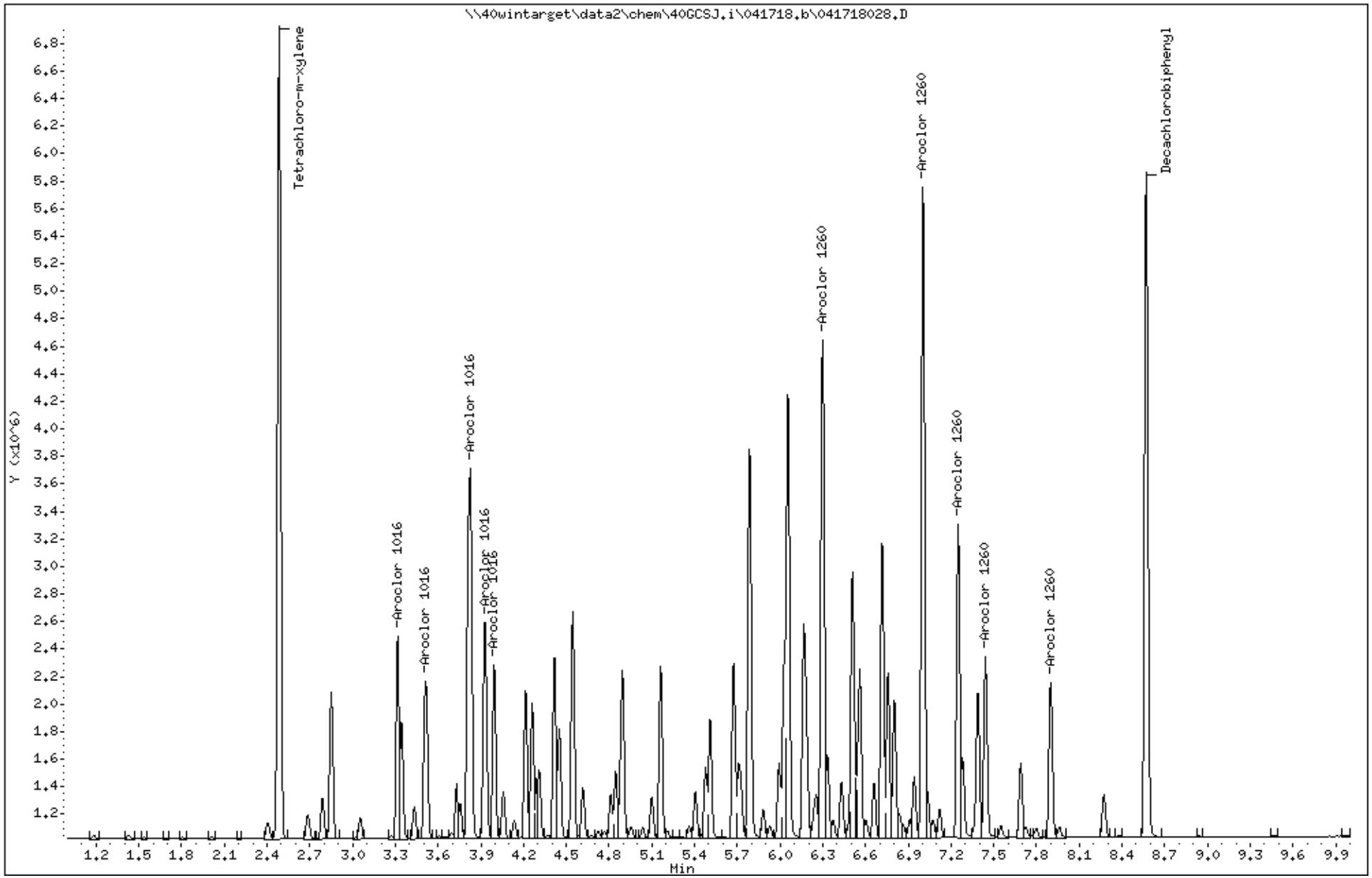
M - Compound response manually integrated.

Review Codes Legend

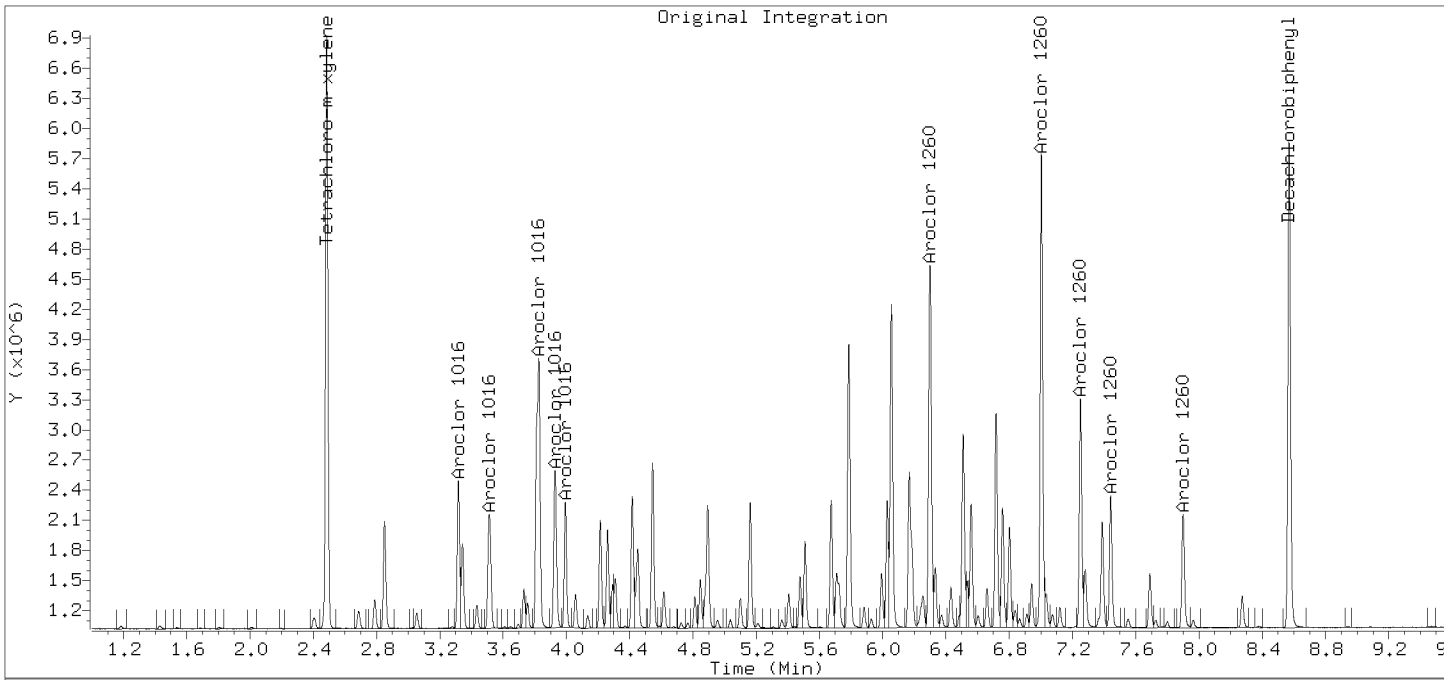
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

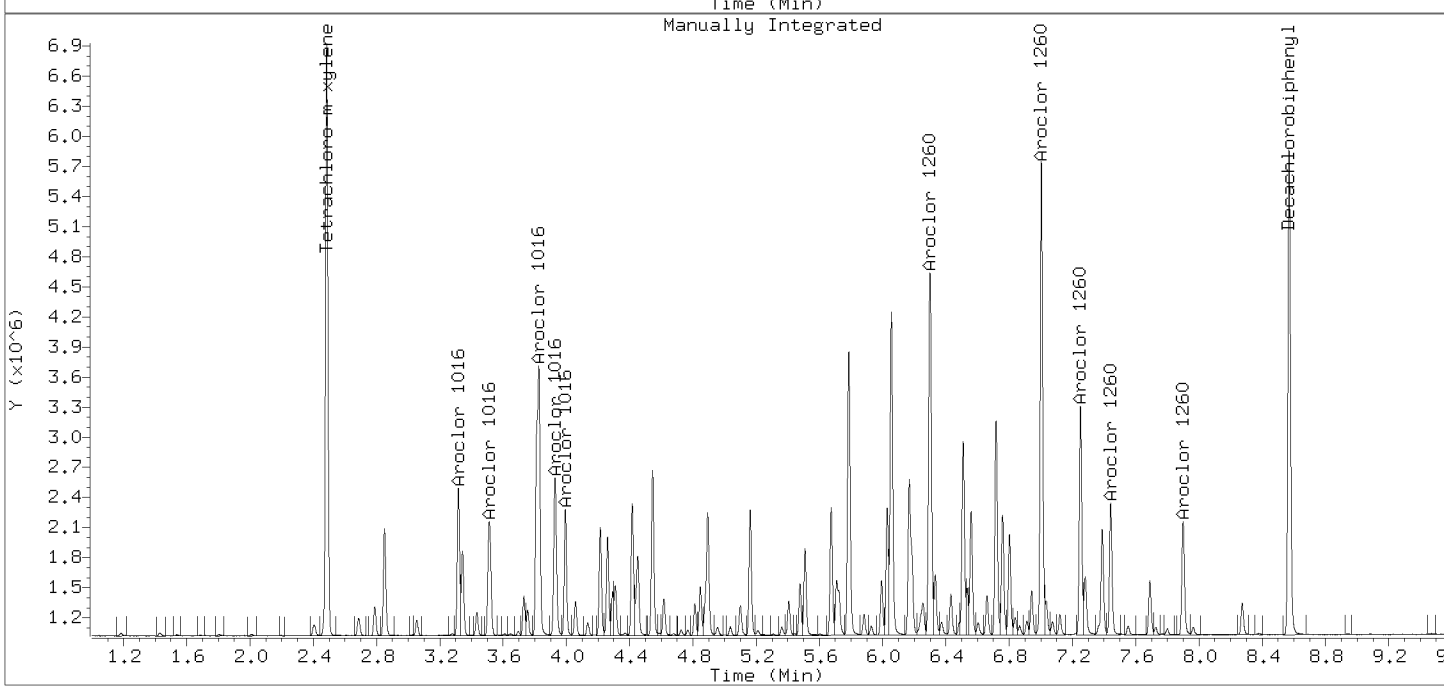
Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718028.D
Date : 17-APR-2018 18:16
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718028.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 17-APR-2018 18:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1577325	1589016	BA
Aroclor 1016	1577325	1589016	BA
Aroclor 1016	1577325	1589016	BA
Aroclor 1016	1577325	1589016	BA
Aroclor 1016	1577325	1589016	BA
Aroclor 1260	4576269	4595937	BA
Aroclor 1260	4576269	4595937	BA
Aroclor 1260	4576269	4595937	BA
Aroclor 1260	4576269	4595937	BA
Aroclor 1260	4576269	4595937	BA
Tetrachloro-m-xylene	6289151	6289151	
Decachlorobiphenyl	5661015	5661015	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 18-APR-2018 13:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 19-Apr-2018 10:59 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
1.189	10001	8322	0.832	0.03		
1.430	41888	31549	0.753	0.14		
1.541	21389	15442	0.722	0.07		
1.689	17370	12875	0.741	0.05		
1.805	335657	270590	0.806	1.12		
1.866	9590	5337	0.557	0.03		
2.199	89986	77570	0.862	0.30		
2.409	216539	156812	0.724	0.72		
2.485	6506058	5886146	0.905	22.11	$ 2 Tetrachloro-m-xylene	
2.688	480018	386394	0.805	1.60		
2.790	446566	404704	0.906	1.49		
2.851	1434902	1248466	0.870	4.79	4 Aroclor 1232	BA
3.055	94475	83712	0.886	0.31		
3.281	77644	56158	0.723	0.25		
3.318	821584	723157	0.880	2.74		
3.344	459816	404825	0.880	1.53		
3.434	129758	116663	0.899	0.43		
3.513	757580	542221	0.716	2.53	4 Aroclor 1232	BA
3.607	23026	19215	0.835	0.07		
3.696	26708	23609	0.884	0.08		
3.732	200392	195068	0.973	0.66		
3.756	135114	126483	0.936	0.45		
3.826	2139137	1237403	0.578	7.15	4 Aroclor 1232	BA
3.930	916132	759724	0.829	3.06	4 Aroclor 1232	BA
3.994	599671	563614	0.940	2.00	4 Aroclor 1232	BA
4.058	164100	141937	0.865	0.54		
4.136	64082	57036	0.890	0.21		
4.215	446417	407078	0.912	1.49		
4.261	429933	411225	0.956	1.43		
4.293	184141	189283	1.028	0.61		
4.310	225070	208518	0.926	0.75		
4.372	16653	14620	0.878	0.05		
4.417	591608	563887	0.953	1.97		
4.452	492313	344276	0.699	1.64		
4.546	767581	703380	0.916	2.56		
4.617	187121	168379	0.900	0.62		
4.678	15570	14867	0.955	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.728	44720	34463	0.771	0.14	
4.767	42305	38971	0.921	0.14	
4.813	346025	327789	0.947	1.15	
4.847	600202	562355	0.937	2.00	
4.879	776881	578269	0.744	2.59	
4.959	88048	67702	0.769	0.29	
5.037	649636	588689	0.906	2.17	
5.099	112369	96647	0.860	0.37	
5.161	147328	128989	0.876	0.49	
5.213	108099	90086	0.833	0.36	
5.309	28778	22914	0.796	0.09	
5.364	86544	75973	0.878	0.28	
5.407	154791	124251	0.803	0.51	
5.445	100327	82682	0.824	0.33	
5.510	263794	192812	0.731	0.88	
5.603	78708	64685	0.822	0.26	
5.672	15364	14521	0.945	0.05	
5.717	21100	14285	0.677	0.07	
5.738	18919	17960	0.949	0.06	
5.791	173321	122830	0.709	0.57	
5.884	17937	15240	0.850	0.05	
6.025	123977	105356	0.850	0.41	
6.055	42735	33234	0.778	0.14	
6.166	12358	12915	1.045	0.04	
6.191	17532	12434	0.709	0.05	
6.301	40362	35011	0.867	0.13	
6.508	12558	12430	0.990	0.04	
6.719	17504	13582	0.776	0.05	
6.805	14295	10207	0.714	0.04	
7.004	30663	23423	0.764	0.10	
7.127	10636	10589	0.996	0.03	
7.249	19410	13217	0.681	0.06	
7.729	28291	27077	0.957	0.09	
7.802	27986	25710	0.919	0.09	
8.276	57750	47029	0.814	0.19	
8.373	12808	11126	0.869	0.04	
8.571	5749503	4629789	0.805	19.22	$ 12 Decachlorobiphenyl
9.086	10182	8878	0.872	0.03	
9.811	15818	16985	1.074	0.05	
9.820	10603	22013	2.076	0.03	
9.852	55010	39060	0.710	0.18	
9.880	153076	43304	0.283	0.51	
	29913844	24996027		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 18-APR-2018 13:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 19-Apr-2018 10:59 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	6506058	0.05000	0.053			
4 Aroclor 1232					CAS #: 1114-16-5			
2.851	2.851	0.000	1434902	0.50000	0.57	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	757580	0.50000	0.56	0.00- 20.00	52.80	BA
3.826	3.827	-0.001	2139136	0.50000	0.57	0.00- 20.00	149.08	BA
3.929	3.929	0.000	916131	0.50000	0.57	0.00- 20.00	63.85	BA
3.994	3.995	-0.001	599671	0.50000	0.55	0.00- 20.00	41.79	BA
Average of Peak Amounts =					0.56400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5749502	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.

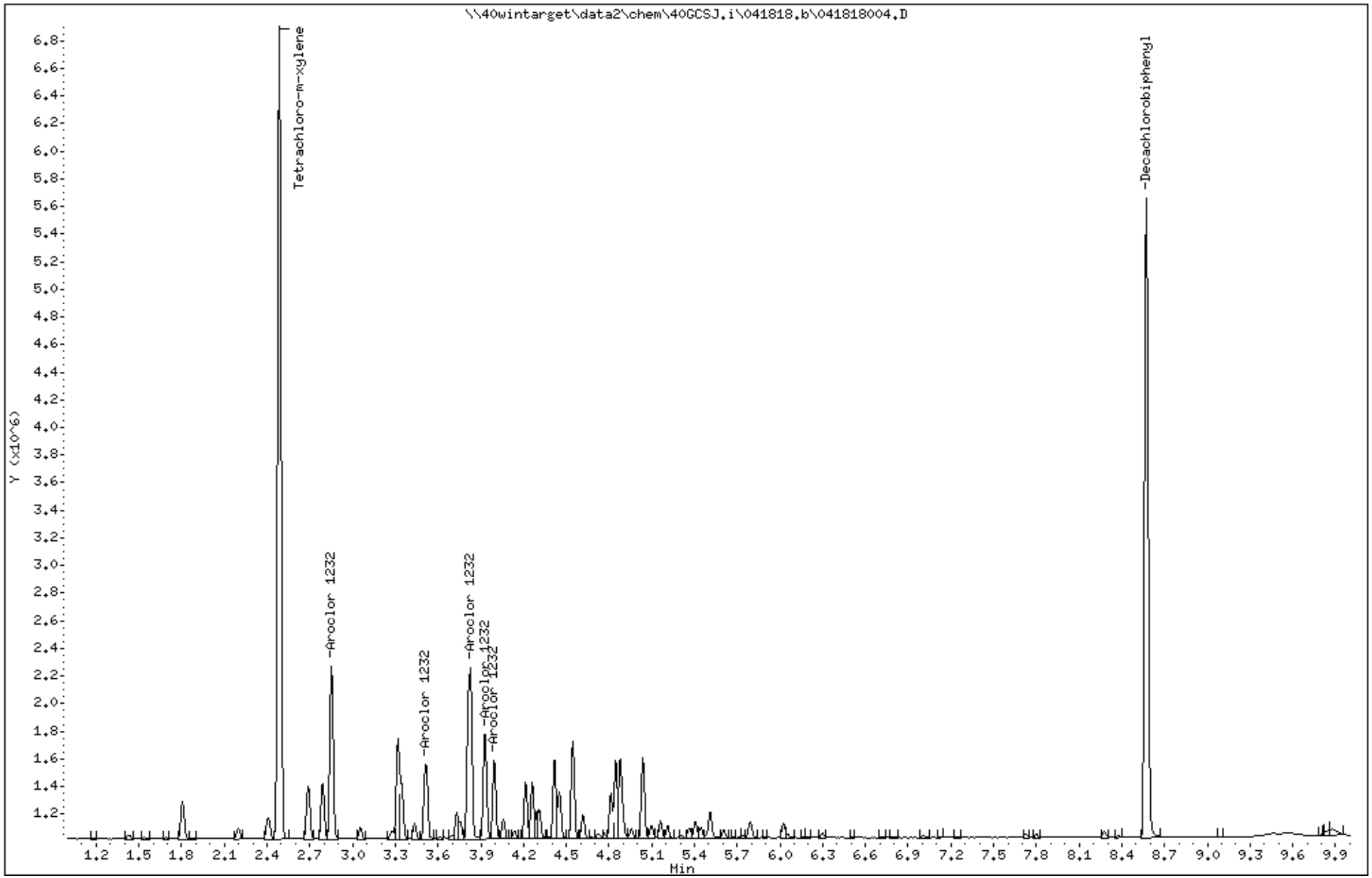
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818004.D
Date : 18-APR-2018 13:13
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

Instrument: 40GCSJ.i

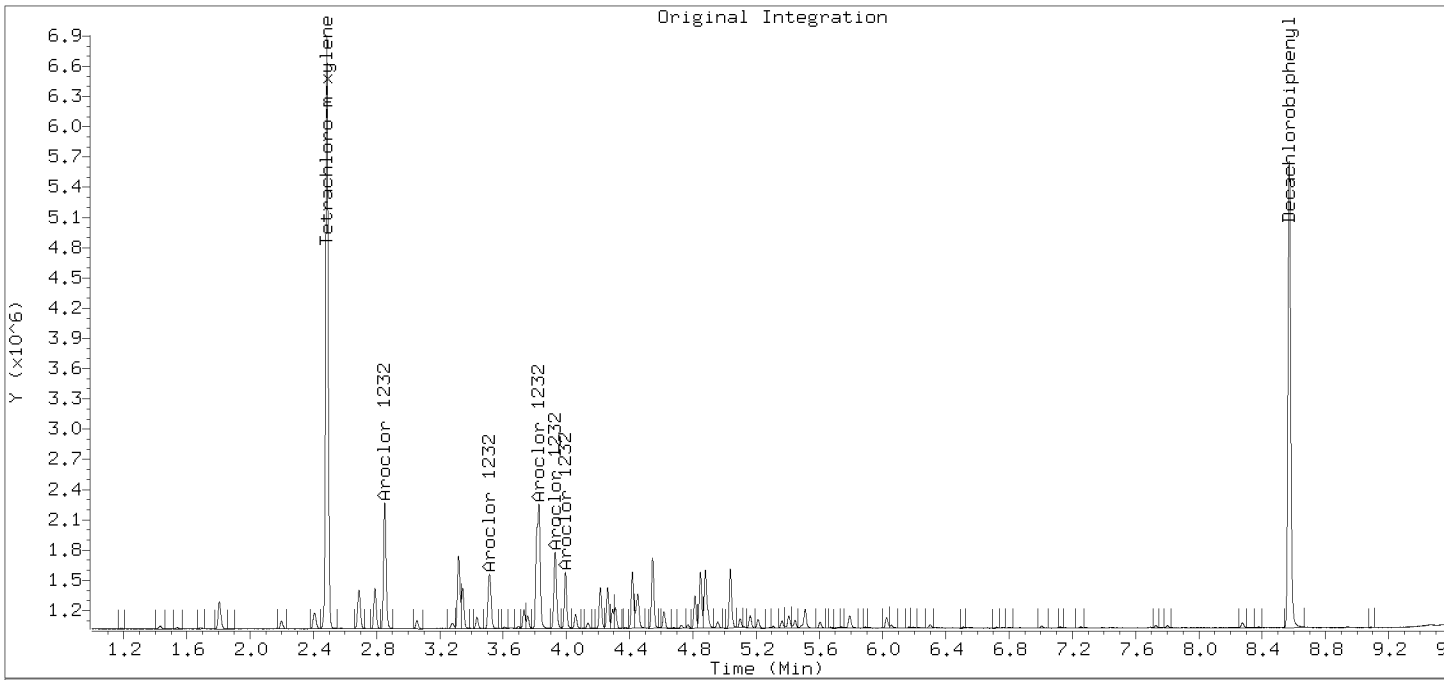
Operator: BLM

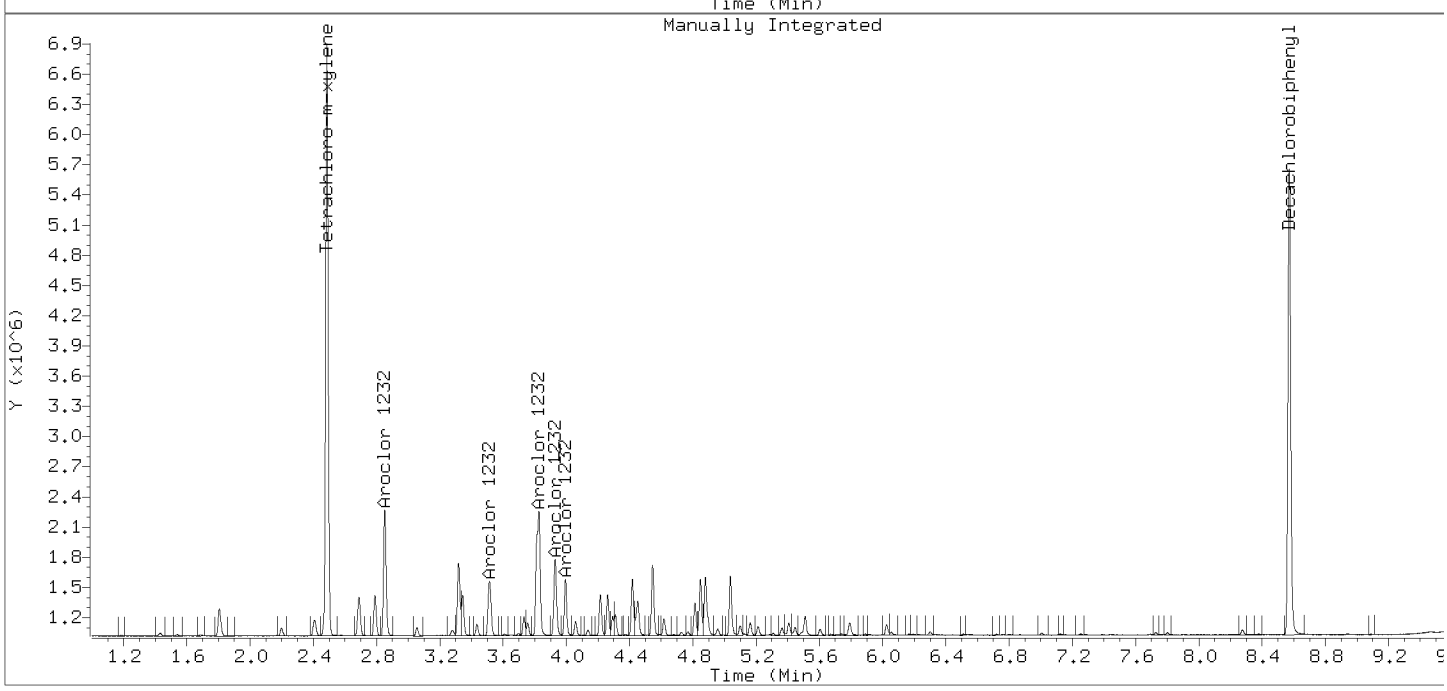
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818004.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 18-APR-2018 13:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1423002	1434902	BA
Aroclor 1232	1423002	1434902	BA
Aroclor 1232	1423002	1434902	BA
Aroclor 1232	1423002	1434902	BA
Aroclor 1232	1423002	1434902	BA
Tetrachloro-m-xylene	6506058	6506058	
Decachlorobiphenyl	5749502	5749502	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 18-APR-2018 16:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 19-Apr-2018 10:59 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
1.184	49404	35064	0.710	0.12		
1.429	32788	28490	0.869	0.08		
1.538	23259	15353	0.660	0.05		
1.686	24024	14183	0.590	0.05		
1.807	18349	13182	0.718	0.04		
2.012	25026	20312	0.812	0.06		
2.405	122454	91006	0.743	0.30		
2.484	6109316	5607440	0.918	15.44	$ 2 Tetrachloro-m-xylene	
2.687	178429	145342	0.815	0.44		
2.789	279354	253649	0.908	0.68		
2.851	975432	877662	0.900	2.40		
3.028	15306	14376	0.939	0.03		
3.054	142724	128904	0.903	0.35		
3.279	23616	18110	0.767	0.05		
3.318	1320543	1219768	0.924	3.25	3 Aroclor 1242	BA
3.344	760416	694731	0.914	1.87		
3.433	216050	185613	0.859	0.53		
3.512	1311273	940994	0.718	3.23	3 Aroclor 1242	BA
3.607	24544	20828	0.849	0.06		
3.646	23719	16211	0.683	0.05		
3.694	38358	37090	0.967	0.09		
3.731	330867	323809	0.979	0.81		
3.755	224359	206872	0.922	0.55		
3.826	3744792	2151803	0.575	9.24	3 Aroclor 1242	BA
3.929	1611336	1330822	0.826	3.97	3 Aroclor 1242	BA
3.994	1079224	1012852	0.939	2.66	3 Aroclor 1242	BA
4.058	325369	287555	0.884	0.80		
4.136	127536	109402	0.858	0.31		
4.215	888681	820047	0.923	2.19		
4.261	852292	816606	0.958	2.10		
4.292	354408	359848	1.015	0.87		
4.309	443035	405577	0.915	1.09		
4.369	28119	21439	0.762	0.06		
4.416	1177036	1091468	0.927	2.90		
4.452	918365	673262	0.733	2.26		
4.545	1541100	1365226	0.886	3.80		
4.617	347821	316651	0.910	0.85		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.679	29602	19620	0.663	0.07	
4.726	76485	63244	0.827	0.18	
4.768	86113	78466	0.911	0.21	
4.813	711262	669652	0.941	1.75	
4.848	1216834	1138517	0.936	3.00	
4.879	1599785	1163552	0.727	3.94	
4.958	181274	139061	0.767	0.44	
5.038	1301877	1153256	0.886	3.21	
5.099	288194	211421	0.734	0.71	
5.162	330137	278765	0.844	0.81	
5.212	248481	218837	0.881	0.61	
5.281	24013	20091	0.837	0.05	
5.308	60620	47021	0.776	0.14	
5.363	214948	179276	0.834	0.53	
5.406	354415	294240	0.830	0.87	
5.445	227548	193339	0.850	0.56	
5.511	586203	439144	0.749	1.44	
5.604	174824	147236	0.842	0.43	
5.717	47039	30045	0.639	0.11	
5.740	62157	41684	0.671	0.15	
5.792	410781	314105	0.765	1.01	
5.888	64971	38033	0.585	0.16	
6.025	386797	267358	0.691	0.95	
6.170	25804	20736	0.804	0.06	
6.195	21714	16468	0.758	0.05	
6.227	29971	17752	0.592	0.07	
6.298	114662	91743	0.800	0.28	
6.335	27630	22814	0.826	0.06	
6.374	20493	15705	0.766	0.05	
6.449	19635	12021	0.612	0.04	
6.536	45934	33955	0.739	0.11	
6.803	26234	21495	0.819	0.06	
7.251	9642	9635	0.999	0.02	
7.728	29219	24652	0.844	0.07	
7.768	16321	12093	0.741	0.04	
7.802	23685	19758	0.834	0.05	
8.277	52330	43055	0.823	0.12	
8.374	12926	10402	0.805	0.03	
8.571	5583959	4593045	0.823	13.77	$ 12 Decachlorobiphenyl
8.940	26269	13655	0.520	0.06	
9.467	26659	15049	0.565	0.06	
9.961	18294	12887	0.704	0.04	
	40524464	33824430		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 18-APR-2018 16:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 19-Apr-2018 10:59 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	6109316	0.05000	0.050			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1320542	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1311273	0.50000	0.52	0.00- 20.00	99.30	BA
3.825	3.827	-0.002	3744792	0.50000	0.53	0.00- 20.00	283.58	BA
3.928	3.929	-0.001	1611335	0.50000	0.53	0.00- 20.00	122.02	BA
3.993	3.995	-0.002	1079223	0.50000	0.53	0.00- 20.00	81.73	BA
Average of Peak Amounts =					0.52600			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5583959	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\041818.b\041818016.D

Date : 18-APR-2018 16:24

Client ID: 1242-CCV

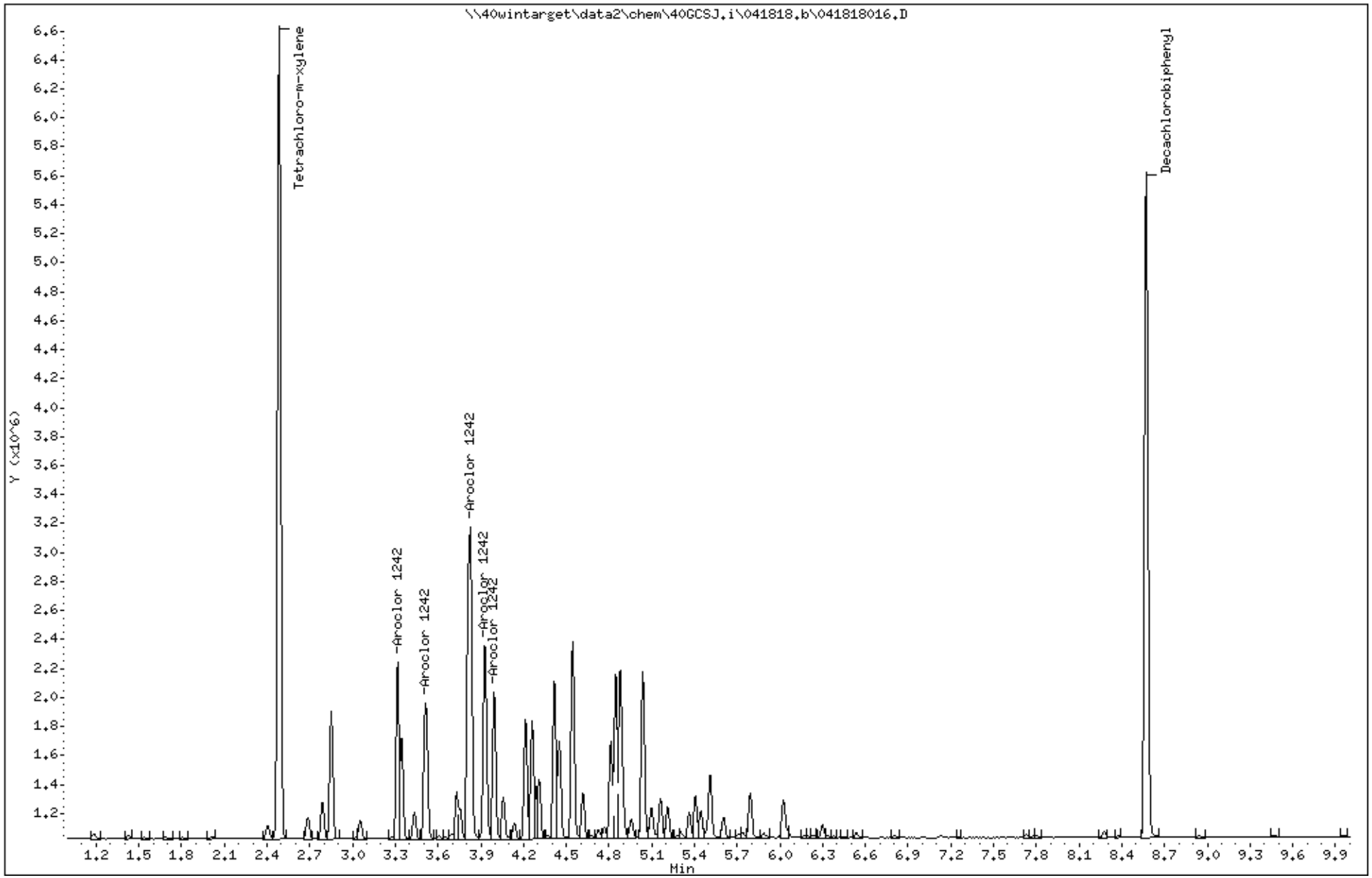
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

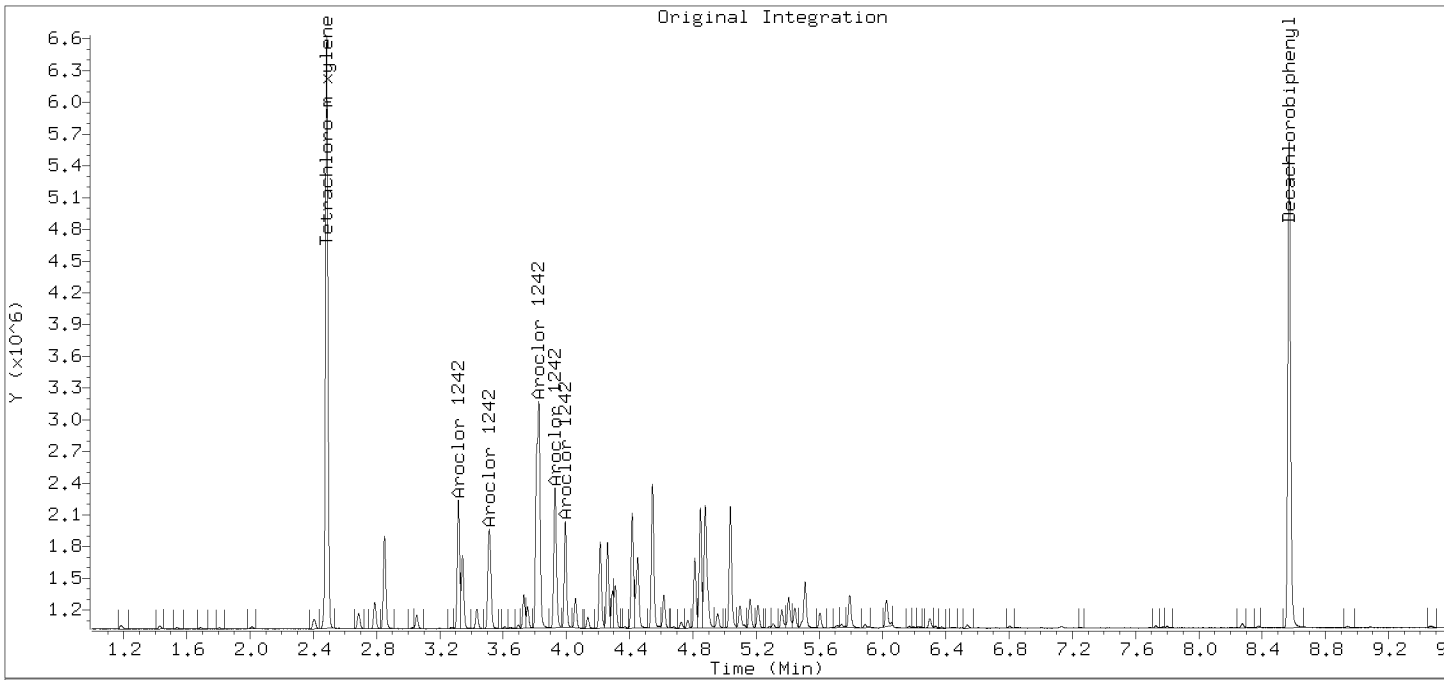
Operator: BLM

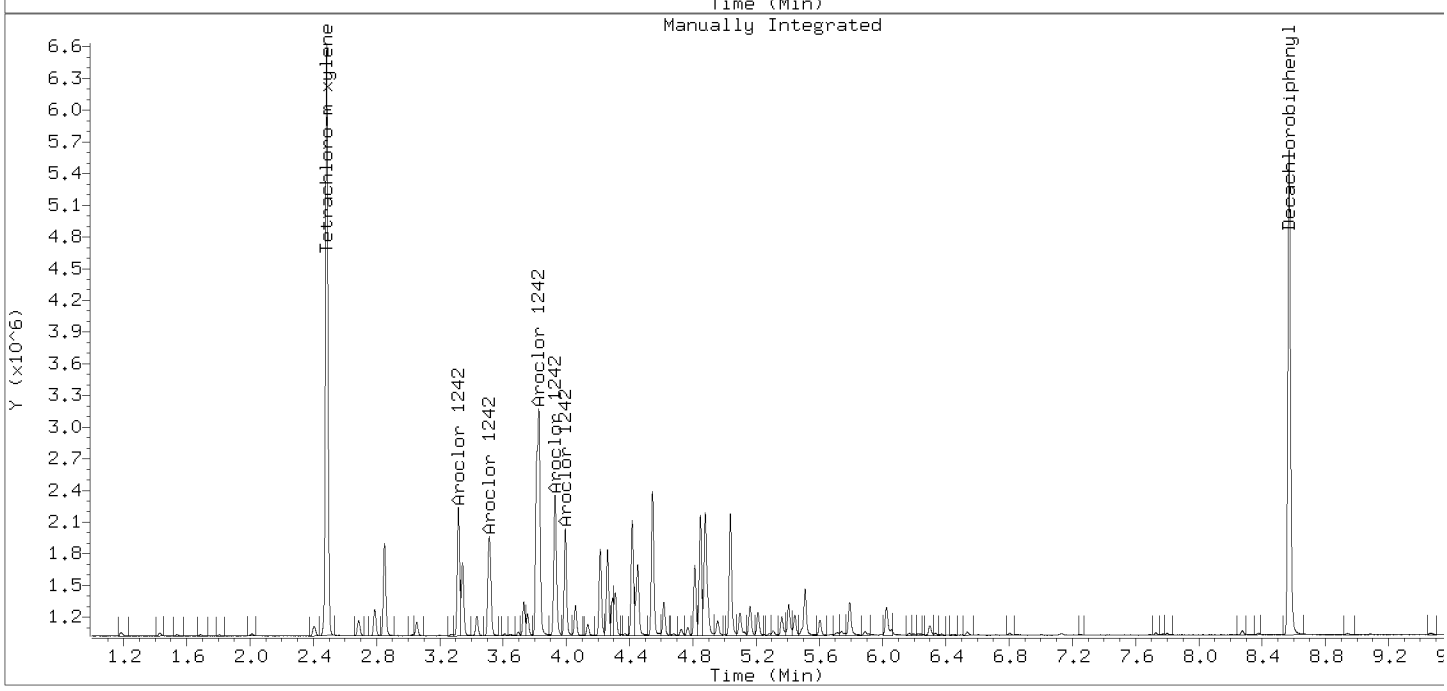
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 18-APR-2018 16:24 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1315082	1320542	BA
Aroclor 1242	1315082	1320542	BA
Aroclor 1242	1315082	1320542	BA
Aroclor 1242	1315082	1320542	BA
Aroclor 1242	1315082	1320542	BA
Tetrachloro-m-xylene	6109316	6109316	
Decachlorobiphenyl	5583959	5583959	

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.: 40157698

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).

---

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).

---

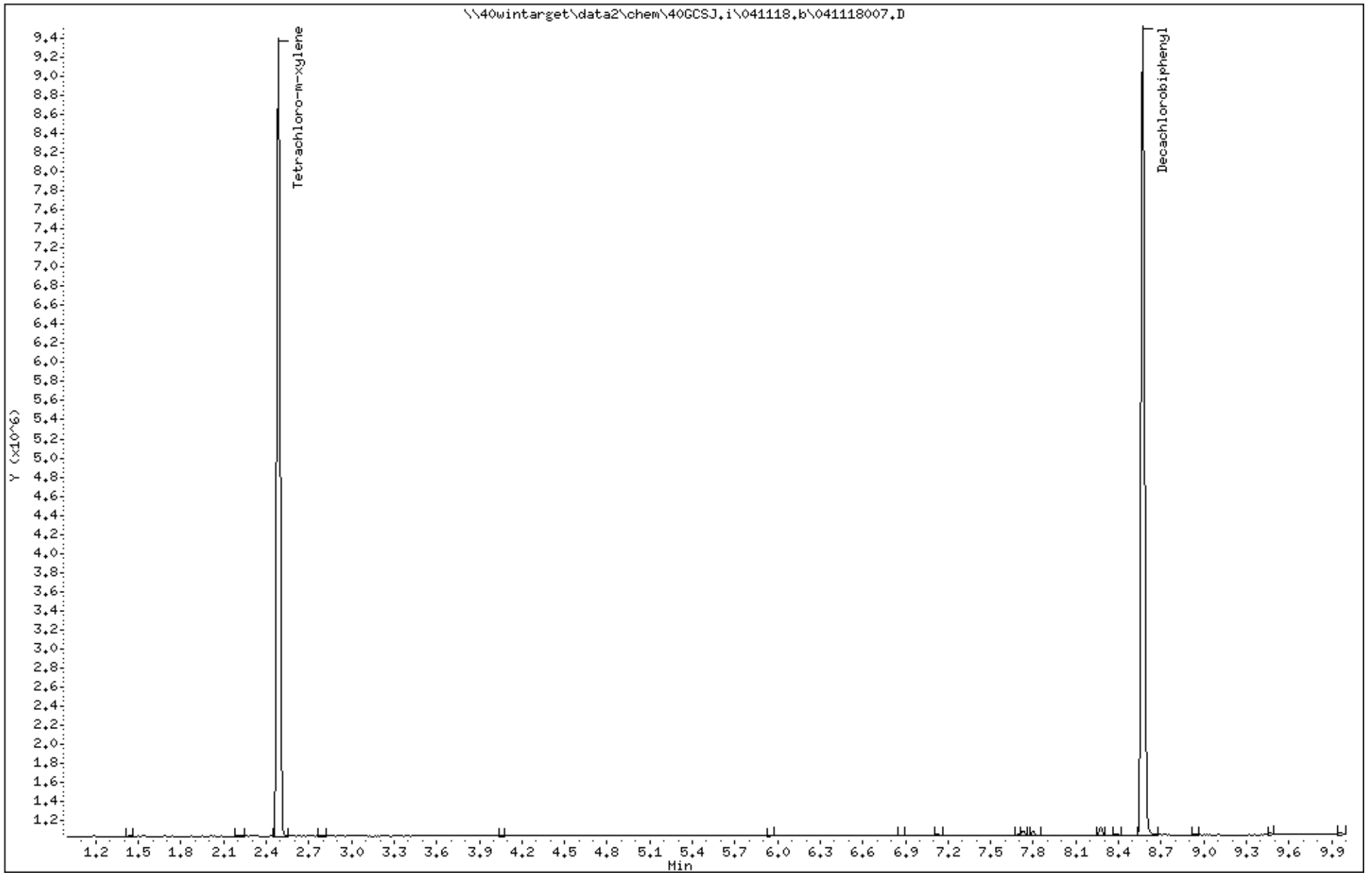
8 Aroclor 1260 CAS #: 11096-82-5

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.: 40157698

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

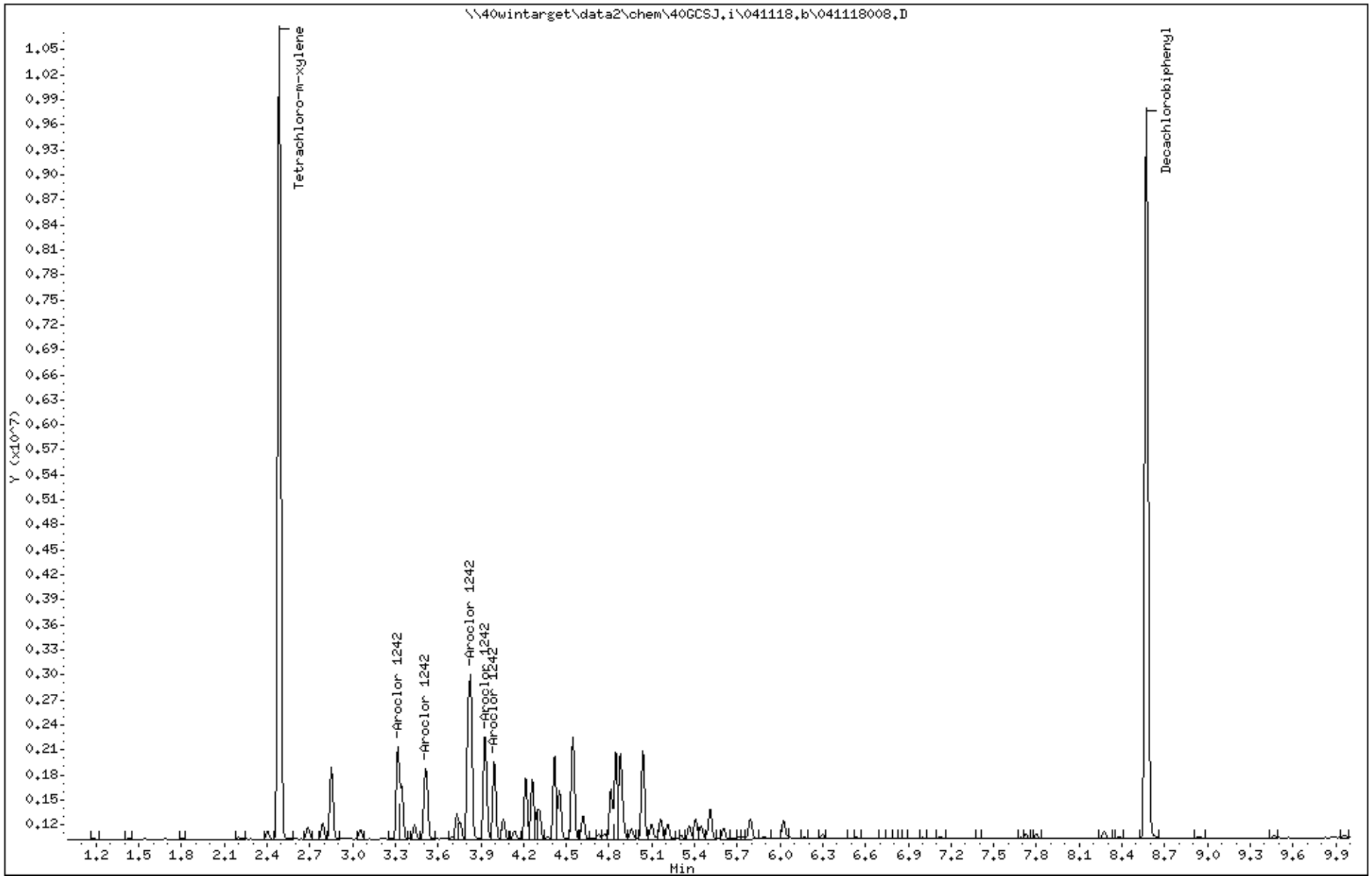
Sample Info: 1671064,

Volume Injected (uL): 1.0

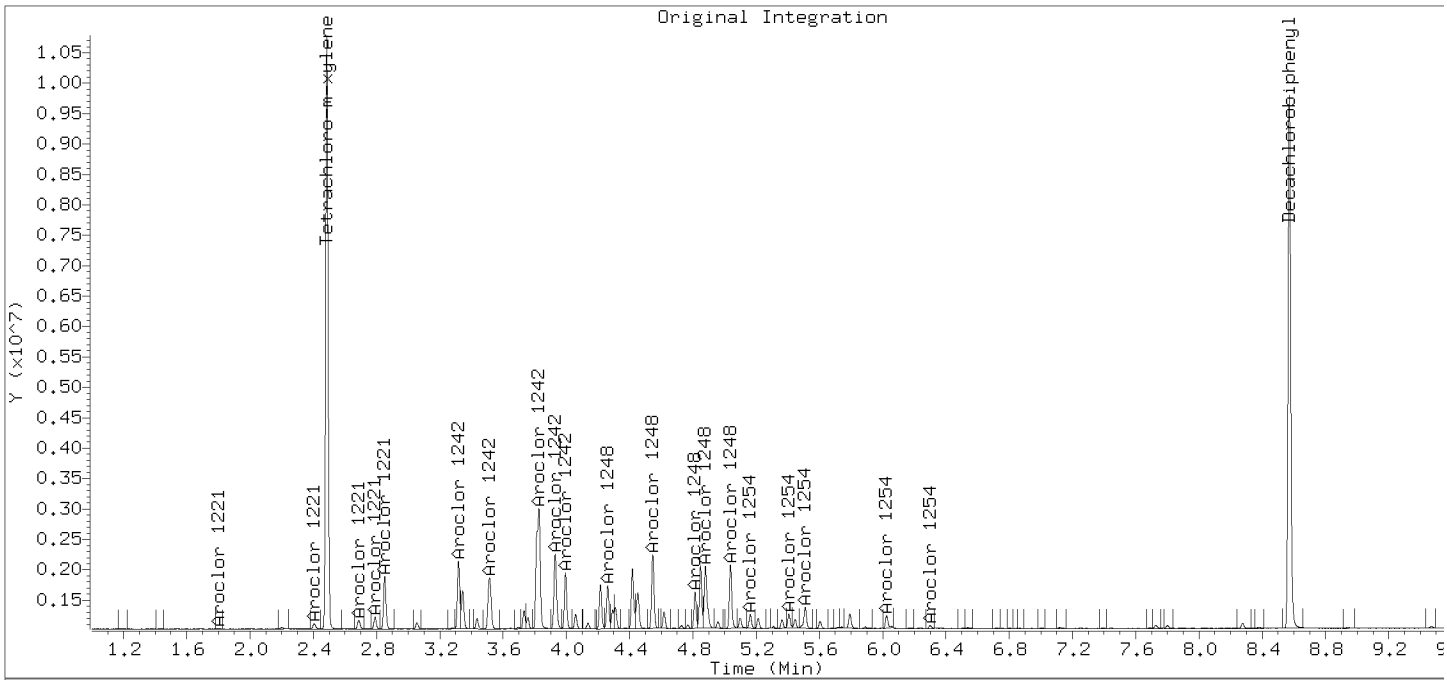
Operator: BLM

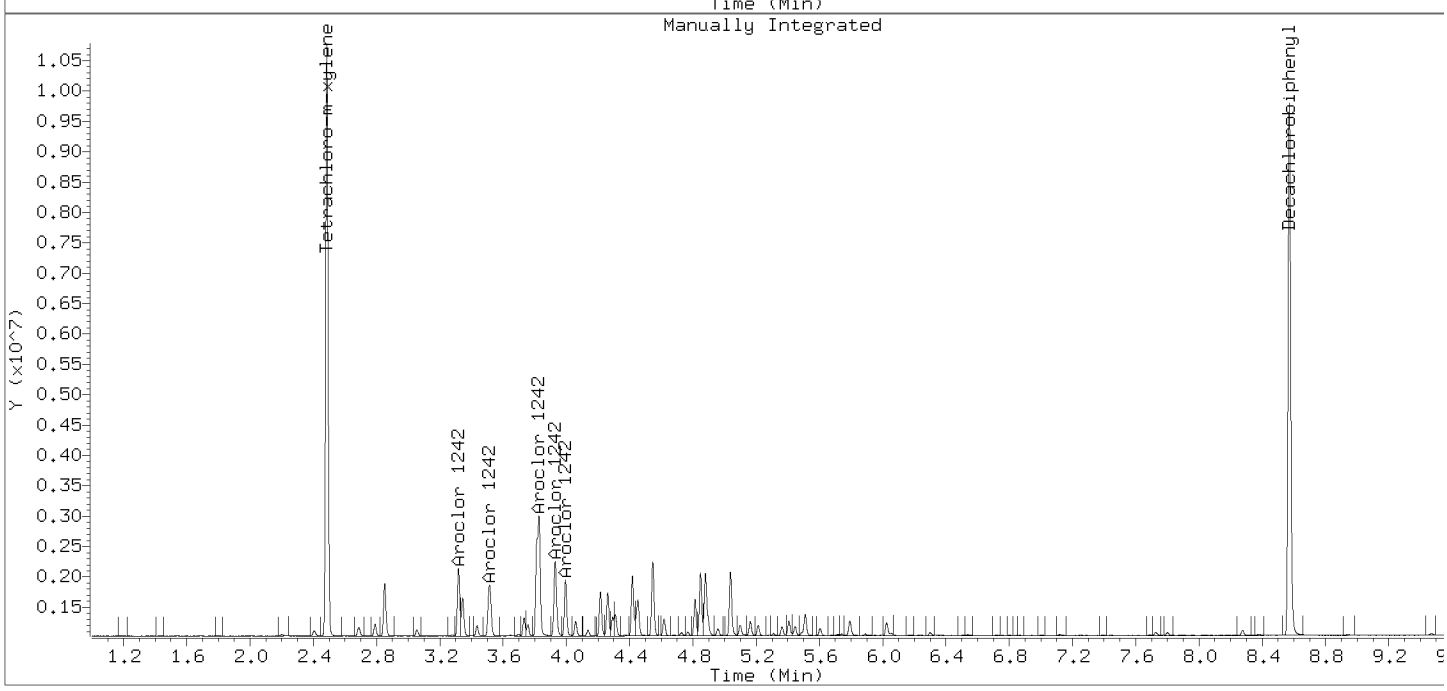
Column phase: ZB-1ms

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.

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.: 40157698

Date Extracted: 04/12/2018 07:14

Lab Sample ID: 1672269

Date Analyzed: 04/13/2018 15:52

Lab File ID: 041318.B\041318009.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\041318.b\041318009.D
Lab Smp Id: 1672269 Client Smp ID: MB
Inj Date : 13-APR-2018 15:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1672269,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 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	18148	13389	0.738	0.08		
1.692	9763	9946	1.019	0.04		
2.015	10609	6945	0.655	0.05		
2.203	30507	18311	0.600	0.14		
2.486	9861612	8979180	0.911	47.16	$ 2 Tetrachloro-m-xylene	
2.788	18127	14372	0.793	0.08		
7.121	26818	18734	0.699	0.12		
7.694	14889	10943	0.735	0.07		
7.726	59581	49301	0.827	0.28		
7.799	52728	40031	0.759	0.25		
8.274	104455	84113	0.805	0.49		
8.382	14721	12845	0.873	0.07		
8.571	10686677	8977331	0.840	51.17	$ 12 Decachlorobiphenyl	
	20908637	18235441		100.000		

Total unknown % area = 1.7

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318009.D
Lab Smp Id: 1672269 Client Smp ID: MB
Inj Date : 13-APR-2018 15:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1672269,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 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		
2.486	2.484	0.002	9861612	0.07998	40			
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

8.571	8.571	0.000	10686676	0.09754		49		

Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318009.D

Date : 13-APR-2018 15:52

Client ID: MB

Instrument: 40GCSJ.i

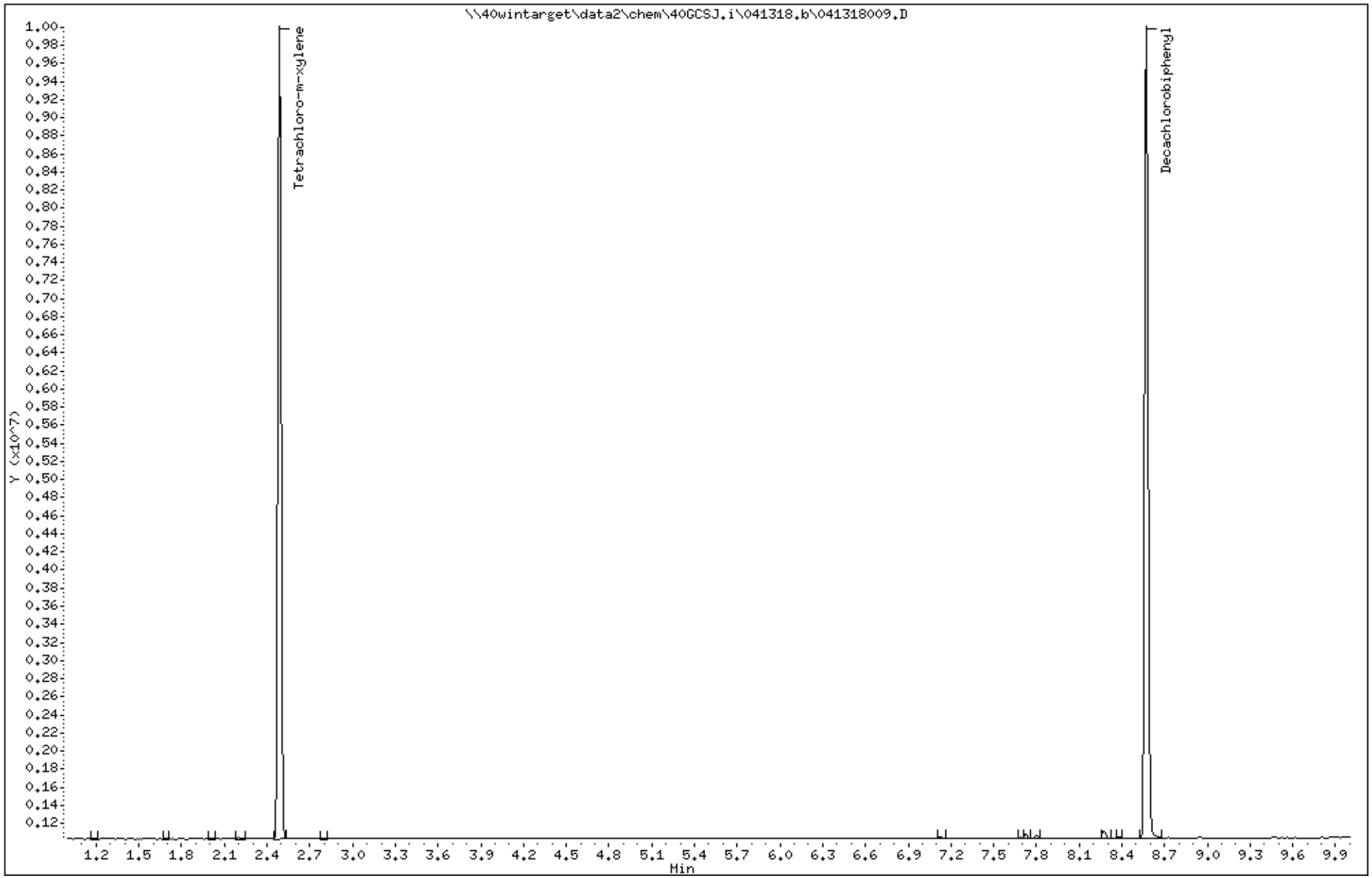
Sample Info: 1672269,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-APR-2018 15:52 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1672269

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	9861612	9861612	
Decachlorobiphenyl	10686676	10686676	

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.: 40157698

Date Extracted: 04/12/2018 07:14

Lab Sample ID: 1672270

Date Analyzed: 04/13/2018 16:08

Lab File ID: 041318.B\041318010.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)	236	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318010.D
Lab Smp Id: 1672270 Client Smp ID: MBLCS
Inj Date : 13-APR-2018 16:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1672270,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 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
1.423	10572	8000	0.757	0.02		
1.540	9966	9758	0.979	0.02		
1.686	11908	10870	0.913	0.02		
1.805	18755	13748	0.733	0.04		
2.198	43148	28173	0.653	0.09		
2.407	113099	85145	0.753	0.24		
2.485	9892402	9340343	0.944	21.70	$ 2 Tetrachloro-m-xylene	
2.687	175725	138701	0.789	0.38		
2.790	209547	190836	0.911	0.45		
2.851	934439	834618	0.893	2.04		
3.056	121289	105765	0.872	0.26		
3.277	24040	17955	0.747	0.05		
3.318	1191792	1098198	0.921	2.61	3 Aroclor 1242	BA
3.344	677980	629741	0.929	1.48		
3.435	197898	166319	0.840	0.43		
3.514	1175225	841173	0.716	2.57	3 Aroclor 1242	BA
3.644	23403	15574	0.665	0.05		
3.694	37080	33581	0.906	0.08		
3.732	305033	298511	0.979	0.66		
3.756	206830	192390	0.930	0.45		
3.827	3402898	1957359	0.575	7.46	3 Aroclor 1242	BA
3.929	1461018	1206628	0.826	3.20	3 Aroclor 1242	BA
3.995	961730	905910	0.942	2.10	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.059	267825	236523	0.883	0.58	
4.135	109651	94636	0.863	0.24	
4.215	792449	749446	0.946	1.73	
4.262	751140	700792	0.933	1.64	
4.292	306566	317605	1.036	0.67	
4.310	386990	341481	0.882	0.84	
4.373	30166	21278	0.705	0.06	
4.417	1041700	972308	0.933	2.28	
4.452	821986	596826	0.726	1.80	
4.546	1342247	1220990	0.910	2.94	
4.618	312236	277252	0.888	0.68	
4.682	24208	18586	0.768	0.05	
4.728	69194	55693	0.805	0.15	
4.767	74393	67787	0.911	0.16	
4.813	610680	575934	0.943	1.33	
4.848	1083171	1021987	0.944	2.37	
4.879	1396066	1009232	0.723	3.06	
4.958	159206	122508	0.769	0.34	
5.037	1147970	1041191	0.907	2.51	
5.099	239155	181024	0.757	0.52	
5.162	271186	241335	0.890	0.59	
5.213	205206	168834	0.823	0.45	
5.281	23818	17424	0.732	0.05	
5.307	50164	39268	0.783	0.11	
5.363	174044	144551	0.831	0.38	
5.406	285033	240095	0.842	0.62	
5.446	181896	153980	0.847	0.39	
5.510	468401	351826	0.751	1.02	
5.604	143894	120147	0.835	0.31	
5.675	19968	14556	0.729	0.04	
5.716	24370	22425	0.920	0.05	
5.742	45006	34541	0.767	0.09	
5.792	305613	238010	0.779	0.67	
5.888	53324	28825	0.541	0.11	
6.024	249461	207541	0.832	0.54	
6.055	62758	42049	0.670	0.13	
6.169	25241	17955	0.711	0.05	
6.239	13055	11150	0.854	0.02	
6.300	64649	51976	0.804	0.14	
6.331	19369	13044	0.673	0.04	
6.509	13627	10795	0.792	0.02	
6.534	25749	17920	0.696	0.05	
6.718	12248	9737	0.795	0.02	
6.802	10986	11310	1.030	0.02	
6.867	9525	8248	0.866	0.02	
6.942	9791	6988	0.714	0.02	
7.005	21450	15488	0.722	0.04	
7.123	16463	15645	0.950	0.03	
7.389	10237	8324	0.813	0.02	
7.694	16255	13518	0.832	0.03	
7.726	57942	47171	0.814	0.12	
7.801	48258	39780	0.824	0.10	
8.275	103753	87609	0.844	0.22	
8.375	16971	11243	0.662	0.03	
8.571	10354003	8902285	0.860	23.11	$ 12 Decachlorobiphenyl
	45586488	39117968		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318010.D
Lab Smp Id: 1672270 Client Smp ID: MBLCS
Inj Date : 13-APR-2018 16:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1672270,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 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	9892401	0.08023	40			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1191791	0.47047	240	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1175224	0.46635	230	0.00- 20.00	98.61	BA
3.826	3.827	-0.001	3402897	0.47817	240	0.00- 20.00	285.53	BA
3.929	3.929	0.000	1461017	0.48036	240	0.00- 20.00	122.59	BA
3.994	3.995	-0.001	961729	0.46965	230	0.00- 20.00	80.70	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	10354003	0.09451	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\041318.b\041318010.D

Date : 13-APR-2018 16:08

Client ID: MBLCS

Instrument: 40GCSJ.i

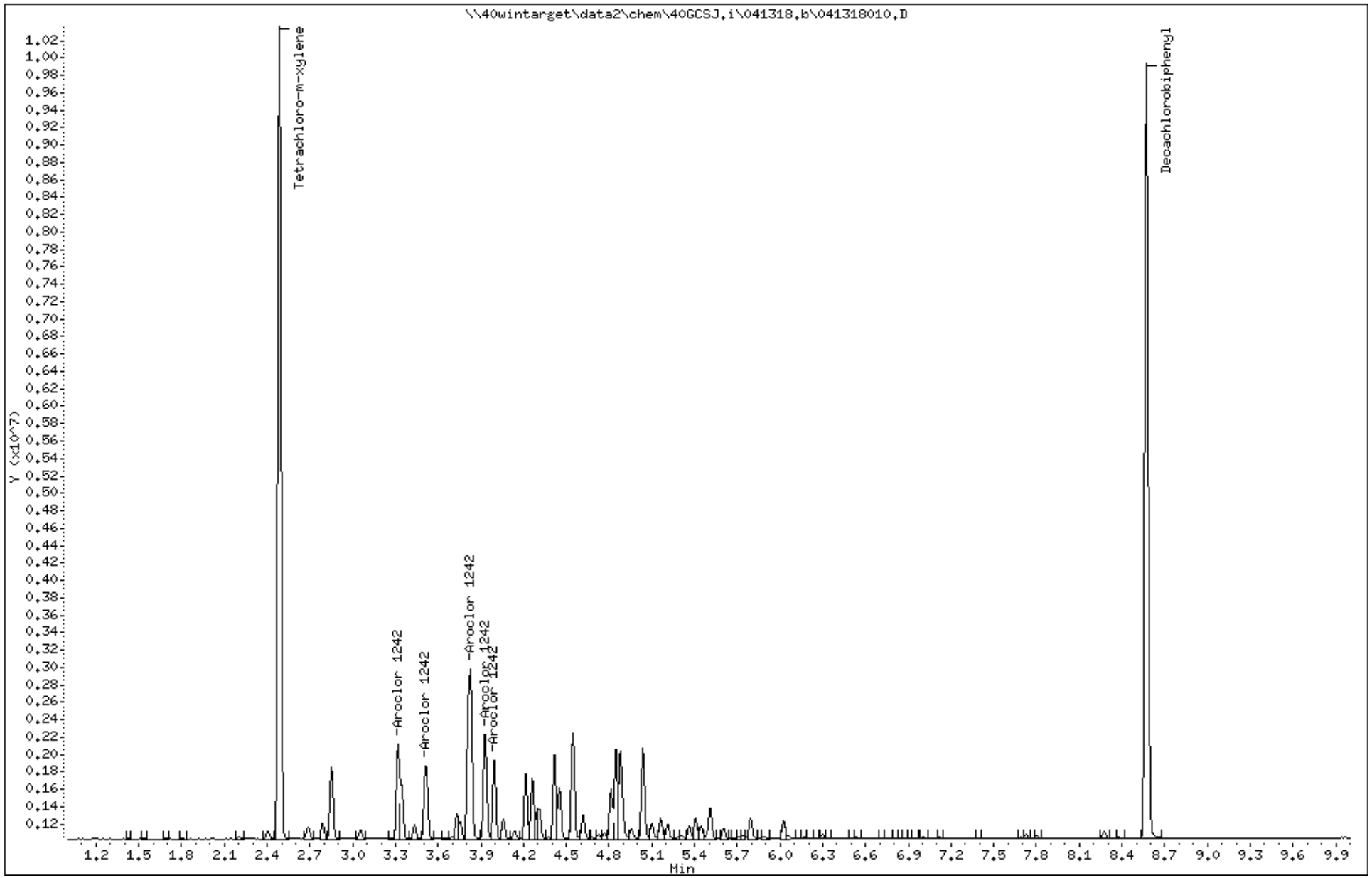
Sample Info: 1672270,

Volume Injected (uL): 1.0

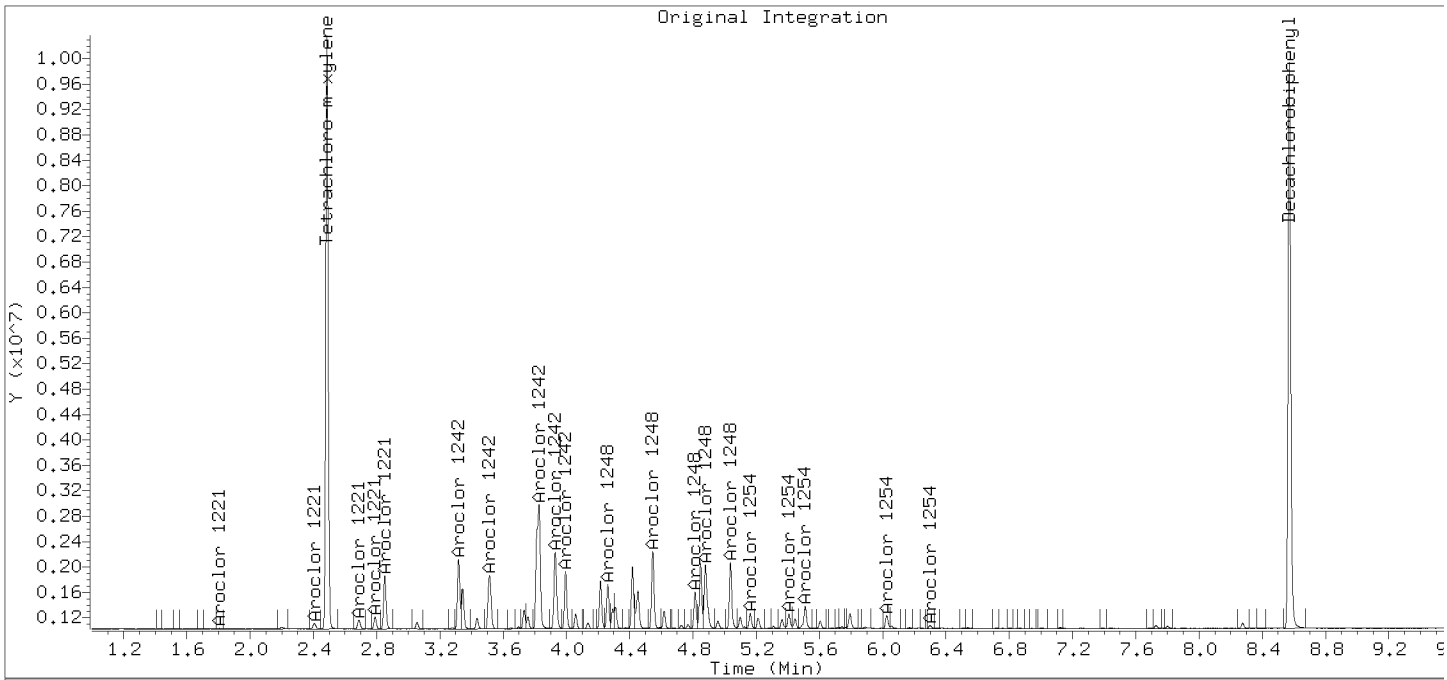
Operator: BLM

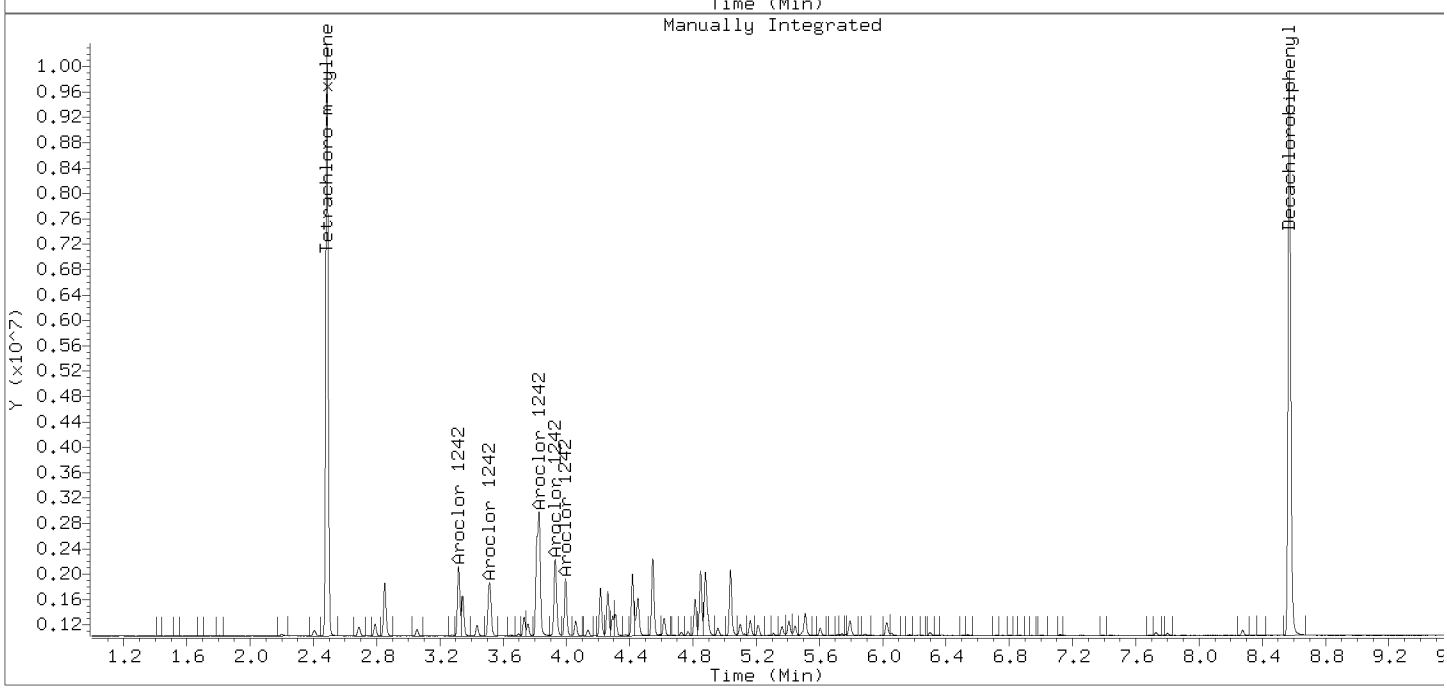
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b/041318010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 13-APR-2018 16:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1672270





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1187007	0	
Aroclor 1016	1187007	0	
Aroclor 1016	1187007	0	
Aroclor 1016	1187007	0	
Aroclor 1016	1187007	0	
Aroclor 1221	18754	0	
Aroclor 1221	18754	0	
Aroclor 1221	18754	0	
Aroclor 1221	18754	0	
Aroclor 1221	18754	0	
Aroclor 1232	923968	0	
Aroclor 1232	923968	0	
Aroclor 1232	923968	0	
Aroclor 1232	923968	0	

Aroclor 1232	923968	0	
Aroclor 1242	1187007	1191791	BA
Aroclor 1242	1187007	1191791	BA
Aroclor 1242	1187007	1191791	BA
Aroclor 1242	1187007	1191791	BA
Aroclor 1242	1187007	1191791	BA
Aroclor 1248	742811	0	
Aroclor 1248	742811	0	
Aroclor 1248	742811	0	
Aroclor 1248	742811	0	
Aroclor 1248	742811	0	
Aroclor 1254	254508	0	
Aroclor 1254	254508	0	
Aroclor 1254	254508	0	
Aroclor 1254	254508	0	
Aroclor 1254	254508	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9892401	9892401	
Decachlorobiphenyl	10354003	10354003	

==========

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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/12/2018 07:14
Lab Sample ID: 1672272
Date Analyzed: 04/13/2018 20:06
Lab File ID: 041318.B\041318025.D
Initial wt/vol: 10.0077 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)	112	
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	289	
12672-29-6	PCB-1248 (Aroclor 1248)	323	
11097-69-1	PCB-1254 (Aroclor 1254)	128	
11096-82-5	PCB-1260 (Aroclor 1260)	49.3	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318025.D
Lab Smp Id: 1672272 Client Smp ID: ND5-170615-01-LMB-0
Inj Date : 13-APR-2018 20:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1672272,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25 QC Sample: MS
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	10.008	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.029	15862	10038	0.633	0.01		
1.183	16849	11725	0.696	0.02		
1.536	10565	9089	0.860	0.01		
1.807	25937	18742	0.723	0.03	1 Aroclor 1221	BA
2.200	43166	23904	0.554	0.05		
2.409	235627	169777	0.721	0.28	1 Aroclor 1221	BA
2.485	10468785	9750640	0.931	12.62	$ 2 Tetrachloro-m-xylene	BA
2.687	195413	149957	0.767	0.23	1 Aroclor 1221	BA
2.789	237973	207406	0.872	0.28	1 Aroclor 1221	BA
2.851	1019574	905081	0.888	1.22	1 Aroclor 1221	BA
3.055	233102	211756	0.908	0.28		
3.277	26879	20766	0.773	0.03		
3.318	1332010	1194773	0.897	1.60	3 Aroclor 1242	BA
3.345	810379	753467	0.930	0.97		
3.405	13416	12048	0.898	0.01		
3.434	413908	382799	0.925	0.49		
3.515	1460859	1049756	0.719	1.76	3 Aroclor 1242	BA
3.646	60749	46111	0.759	0.07		
3.697	37497	35207	0.939	0.04		
3.732	599996	582317	0.971	0.72		
3.756	293870	276676	0.941	0.35		
3.827	4383674	2463884	0.562	5.28	3 Aroclor 1242	BA
3.929	1758703	1363456	0.775	2.12	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.994	1210845	1146099	0.947	1.46	3 Aroclor 1242
4.058	358412	319943	0.893	0.43	
4.136	136164	112484	0.826	0.16	
4.214	2296968	2068864	0.901	2.77	
4.261	2265862	2108274	0.930	2.73	6 Aroclor 1248
4.292	2499437	1777630	0.711	3.01	
4.371	32996	24954	0.756	0.03	
4.417	1425468	1308684	0.918	1.71	
4.451	1219792	941075	0.772	1.47	
4.546	2459258	2222291	0.904	2.96	6 Aroclor 1248
4.587	209998	199629	0.951	0.25	
4.616	422532	378973	0.897	0.50	
4.680	180367	154673	0.858	0.21	
4.735	271110	194997	0.719	0.32	
4.767	354577	330015	0.931	0.42	
4.813	1258562	1177906	0.936	1.51	6 Aroclor 1248
4.847	1596969	1521081	0.952	1.92	
4.879	2989258	1710307	0.572	3.60	6 Aroclor 1248
4.956	743150	642401	0.864	0.89	
5.037	1650059	1467577	0.889	1.99	6 Aroclor 1248
5.100	1192268	987408	0.828	1.43	
5.160	1539506	1290825	0.838	1.85	7 Aroclor 1254
5.211	1156809	1027987	0.889	1.39	
5.283	159081	152827	0.961	0.19	
5.307	284082	231475	0.815	0.34	
5.363	499353	453589	0.908	0.60	
5.406	1029233	907244	0.881	1.24	7 Aroclor 1254
5.446	752118	619049	0.823	0.90	
5.484	120732	148682	1.232	0.14	
5.509	1891254	1559295	0.824	2.28	7 Aroclor 1254
5.576	169297	156621	0.925	0.20	
5.602	293864	252354	0.859	0.35	
5.675	594352	560105	0.942	0.71	
5.710	287410	227821	0.793	0.34	
5.742	482057	379575	0.787	0.58	
5.790	2216871	1673479	0.755	2.67	
5.884	238318	184105	0.773	0.28	
5.931	267267	214458	0.802	0.32	
5.993	555801	502545	0.904	0.67	
6.025	896500	772538	0.862	1.08	7 Aroclor 1254
6.055	1271156	1076584	0.847	1.53	
6.167	292278	171436	0.587	0.35	
6.232	106879	120544	1.128	0.12	
6.240	202522	159154	0.786	0.24	
6.301	2052759	1654443	0.806	2.47	7 Aroclor 1254
6.331	169651	154167	0.909	0.20	
6.371	86945	68565	0.789	0.10	
6.430	315901	266418	0.843	0.38	
6.509	1044446	943757	0.904	1.25	
6.534	320487	301092	0.939	0.38	
6.559	186685	166233	0.890	0.22	
6.603	52180	43663	0.837	0.06	
6.659	37720	34608	0.917	0.04	
6.717	200756	172206	0.858	0.24	
6.758	261500	235466	0.900	0.31	
6.800	253660	238180	0.939	0.30	
6.838	157421	120708	0.767	0.18	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.912	41746	42151	1.010	0.05	
6.942	141365	129749	0.918	0.17	
7.004	658055	591822	0.899	0.79	8 Aroclor 1260
7.035	72013	77273	1.073	0.08	
7.075	22724	14407	0.634	0.02	
7.124	44548	26000	0.584	0.05	
7.250	319547	280778	0.879	0.38	8 Aroclor 1260
7.280	132191	103211	0.781	0.15	
7.338	12072	10281	0.852	0.01	
7.388	453590	385999	0.851	0.54	
7.442	414555	364400	0.879	0.50	8 Aroclor 1260
7.550	15347	14947	0.974	0.01	
7.689	119702	109051	0.911	0.14	
7.726	123691	108199	0.875	0.14	
7.798	75640	57032	0.754	0.09	
7.899	316631	264284	0.835	0.38	8 Aroclor 1260
7.960	43901	27712	0.631	0.05	
8.052	25263	19002	0.752	0.03	
8.273	365525	326356	0.893	0.44	
8.379	22522	16330	0.725	0.02	
8.570	10499341	9301737	0.886	13.15	$ 12 Decachlorobiphenyl
8.941	10698	8326	0.778	0.01	
9.166	54924	43164	0.786	0.06	
	82901289	70008649		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318025.D
Lab Smp Id: 1672272 Client Smp ID: ND5-170615-01-LMB-0
Inj Date : 13-APR-2018 20:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1672272,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25 QC Sample: MS
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	10.008	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.806	1.804	0.002	25936	0.02491	12	0.00- 20.00	100.00(M)	BA
2.408	2.407	0.001	235627	0.43010	210	0.00- 20.00	908.49	BA
2.686	2.688	-0.002	195413	0.14126	70	0.00- 20.00	753.44	BA
2.788	2.789	-0.001	237973	0.21521	110	0.00- 20.00	917.54	BA
2.850	2.851	-0.001	1019574	0.31319	160	0.00- 20.00	3931.12	BA
Average of Peak Concentrations =					110			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10468784	0.08491	42		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1332010	0.52582	260	0.00- 20.00	100.00(M)	BA
3.515	3.513	0.002	1460859	0.57970	290	0.00- 20.00	109.67	BA
3.826	3.827	-0.001	4383673	0.61599	310	0.00- 20.00	329.10	BA
3.929	3.929	0.000	1758703	0.57823	290	0.00- 20.00	132.03	BA
3.993	3.995	-0.002	1210844	0.59131	300	0.00- 20.00	90.90	BA
Average of Peak Concentrations =					290			

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	2265862	0.96709	480	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2459257	0.59255	300	0.00- 20.00	108.54	BA
4.812	4.812	0.000	1258561	0.61996	310	0.00- 20.00	55.54	BA
4.878	4.879	-0.001	2989258	0.59341	300	0.00- 20.00	131.93	BA
5.036	5.038	-0.002	1650059	0.45981	230	0.00- 20.00	72.82	BA
Average of Peak Concentrations =					320			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1539505	0.29407	150	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	1029233	0.23930	120	0.00- 20.00	66.85	CO
5.509	5.510	-0.001	1891253	0.24353	120	0.00- 20.00	122.85	CO
6.025	6.027	-0.002	896500	0.18410	92	0.00- 20.00	58.23	CO
6.300	6.299	0.001	2052758	0.31546	160	0.00- 20.00	133.34	CO
Average of Peak Concentrations =					130			
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	658054	0.06571	33	0.00- 20.00	35.52	CO
7.249	7.251	-0.002	319547	0.06685	33	0.00- 20.00	15.57	CO
7.442	7.443	-0.001	414555	0.14221	71	0.00- 20.00	20.20	CO
7.898	7.901	-0.003	316630	0.11999	60	0.00- 20.00	15.42	CO
Average of Peak Concentrations =					49			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10499340	0.09583	48			

QC Flag Legend

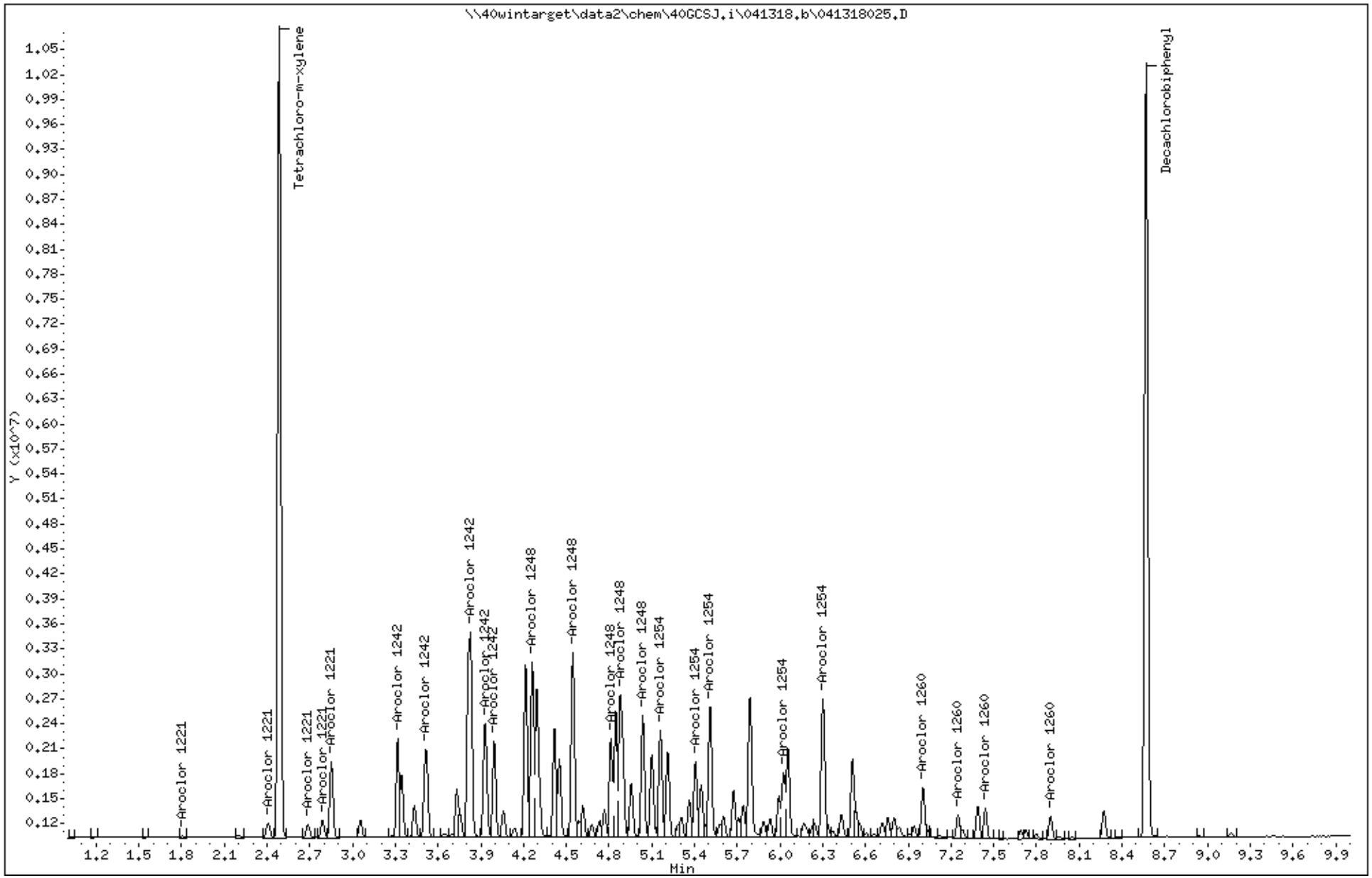
M - Compound response manually integrated.

Review Codes Legend

BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
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\041318.b\041318025.D
Date : 13-APR-2018 20:06
Client ID: ND5-170615-01-LMB-0
Sample Info: 1672272,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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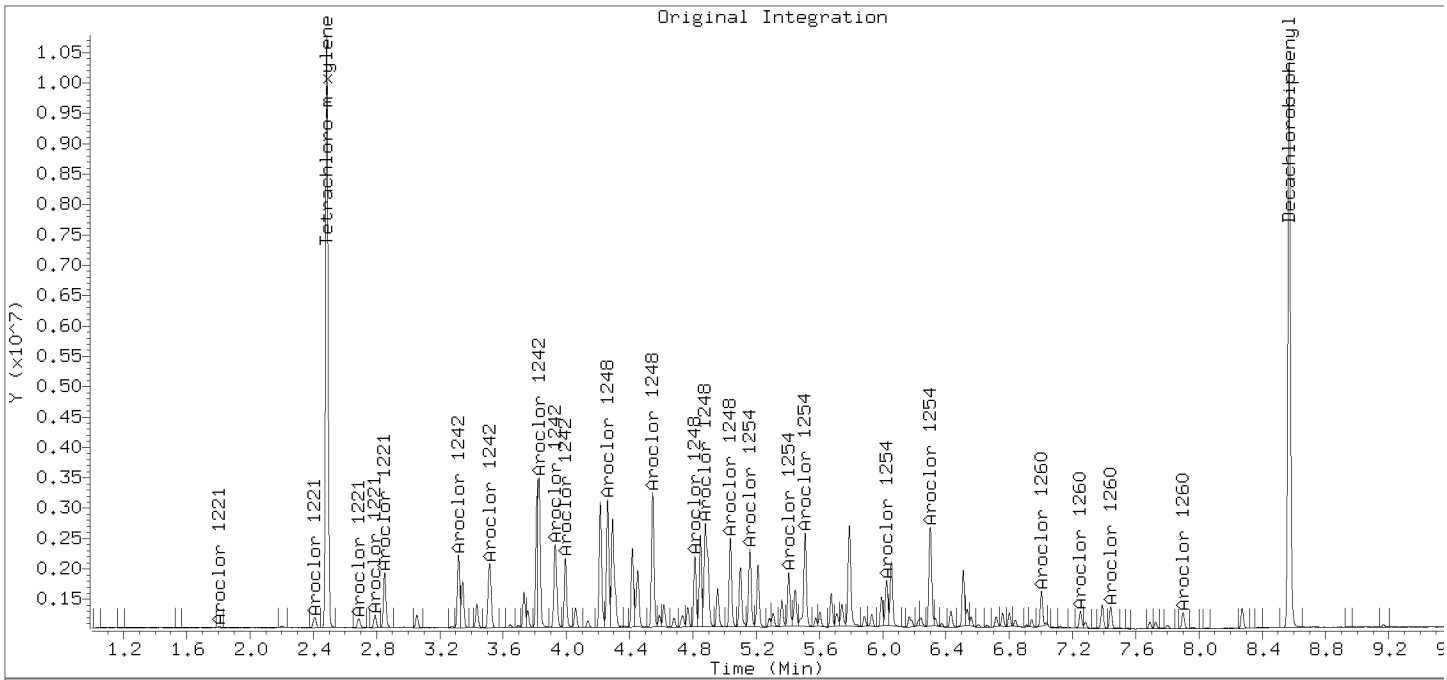
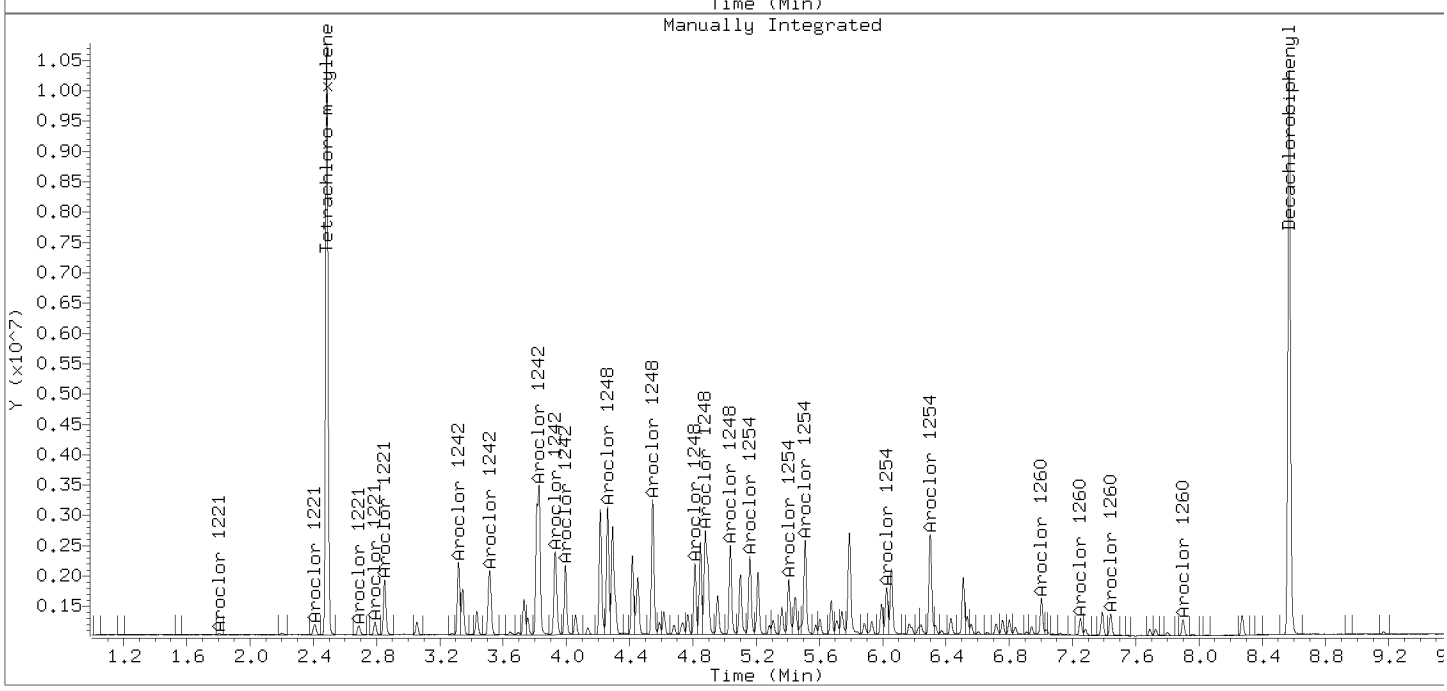
Injection Date: 13-APR-2018 20:06 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1672272





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1325456	0	
Aroclor 1016	1325456	0	
Aroclor 1016	1325456	0	
Aroclor 1016	1325456	0	
Aroclor 1016	1325456	0	
Aroclor 1221	18549	25936	BA
Aroclor 1221	18549	25936	BA
Aroclor 1221	18549	25936	BA
Aroclor 1221	18549	25936	BA
Aroclor 1221	18549	25936	BA
Aroclor 1232	1007073	0	
Aroclor 1232	1007073	0	
Aroclor 1232	1007073	0	
Aroclor 1232	1007073	0	

Aroclor 1232	1007073	0	
Aroclor 1242	1325456	1332010	BA
Aroclor 1242	1325456	1332010	BA
Aroclor 1242	1325456	1332010	BA
Aroclor 1242	1325456	1332010	BA
Aroclor 1242	1325456	1332010	BA
Aroclor 1248	2243335	2265862	BA
Aroclor 1248	2243335	2265862	BA
Aroclor 1248	2243335	2265862	BA
Aroclor 1248	2243335	2265862	BA
Aroclor 1248	2243335	2265862	BA
Aroclor 1254	1482205	1539505	CO
Aroclor 1254	1482205	1539505	CO
Aroclor 1254	1482205	1539505	CO
Aroclor 1254	1482205	1539505	CO
Aroclor 1254	1482205	1539505	CO
Aroclor 1260	1992936	0	CO
Aroclor 1260	1992936	0	CO
Aroclor 1260	1992936	0	CO
Aroclor 1260	1992936	0	CO
Aroclor 1260	1992936	0	CO
Tetrachloro-m-xylene	10444704	10468784	BA
Decachlorobiphenyl	10499340	10499340	

==========

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: 09/29/2017 10:00

Matrix: Tissue SDG No.: 40157698

Date Extracted: 04/12/2018 07:14

Lab Sample ID: 1672273

Date Analyzed: 04/13/2018 20:22

Lab File ID: 041318.B\041318026.D

Initial wt/vol: 10.0262 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)	29.9	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)	157	
11097-69-1	PCB-1254 (Aroclor 1254)	92.8	
11096-82-5	PCB-1260 (Aroclor 1260)	42.4	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318026.D
Lab Smp Id: 1672273 Client Smp ID: ND5-170615-01-LMB-0
Inj Date : 13-APR-2018 20:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1672273,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26 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	10.026	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	20905	11652	0.557	0.03		
1.426	9672	8722	0.902	0.01		
1.537	11702	9782	0.836	0.02		
1.802	11692	9303	0.796	0.02	1 Aroclor 1221	BA
2.009	12134	8863	0.730	0.02		
2.199	65454	29049	0.444	0.12		
2.411	123151	92526	0.751	0.22	1 Aroclor 1221	BA
2.485	10243310	9649945	0.942	19.54	$ 2 Tetrachloro-m-xylene	BA
2.681	13292	9694	0.729	0.02	1 Aroclor 1221	BA
2.788	38255	27806	0.727	0.07	1 Aroclor 1221	BA
2.850	63710	45545	0.715	0.11	1 Aroclor 1221	BA
2.971	19265	12126	0.629	0.03		
3.053	125229	106084	0.847	0.23		
3.317	96180	89556	0.931	0.17		
3.344	116365	106554	0.916	0.21		
3.401	14814	13374	0.903	0.02		
3.434	230511	209144	0.907	0.42		
3.519	235333	210335	0.894	0.43		
3.644	43747	35646	0.815	0.08		
3.731	272645	263859	0.968	0.50		
3.756	84921	79922	0.941	0.15		
3.813	823835	495303	0.601	1.52		
3.938	223428	177379	0.794	0.41		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.994	193387	175194	0.906	0.35	
4.059	96862	81283	0.839	0.17	
4.138	24053	17370	0.722	0.04	
4.214	1466275	1319734	0.900	2.72	
4.261	1459721	1370073	0.939	2.70	6 Aroclor 1248
4.292	1678657	1394159	0.831	3.11	
4.348	26941	18946	0.703	0.04	
4.417	323506	298795	0.924	0.60	
4.451	357711	316094	0.884	0.66	
4.545	1084177	995105	0.918	2.01	6 Aroclor 1248
4.589	182101	166792	0.916	0.33	
4.617	96961	84260	0.869	0.17	
4.681	146427	127471	0.871	0.27	
4.736	187331	154950	0.827	0.34	
4.767	283446	264189	0.932	0.52	
4.811	578552	553443	0.957	1.07	6 Aroclor 1248
4.847	438058	413844	0.945	0.81	
4.893	1478830	805207	0.544	2.74	6 Aroclor 1248
4.956	542075	471780	0.870	1.00	
5.036	406609	350044	0.861	0.75	6 Aroclor 1248
5.101	879403	774822	0.881	1.63	
5.160	1156312	1003448	0.868	2.14	7 Aroclor 1254
5.211	873601	761204	0.871	1.62	
5.283	133723	127189	0.951	0.24	
5.308	217253	181589	0.836	0.40	
5.361	314365	267310	0.850	0.58	
5.406	660909	606611	0.918	1.22	7 Aroclor 1254
5.448	511099	416700	0.815	0.94	
5.481	112111	103157	0.920	0.20	
5.509	1312088	1163659	0.887	2.43	7 Aroclor 1254
5.575	146438	133396	0.911	0.27	
5.603	139343	118480	0.850	0.25	
5.675	513217	474001	0.924	0.95	
5.708	230254	188325	0.818	0.42	
5.741	388668	312601	0.804	0.72	
5.788	1679202	1322939	0.788	3.11	
5.838	61145	50458	0.825	0.11	
5.885	186997	140827	0.753	0.34	
5.930	225099	184065	0.818	0.41	
5.993	471773	428781	0.909	0.87	
6.024	569988	505380	0.887	1.05	7 Aroclor 1254
6.054	1063630	914556	0.860	1.97	
6.168	248088	146215	0.589	0.46	
6.242	257518	131909	0.512	0.47	
6.301	1757452	1445079	0.822	3.26	7 Aroclor 1254
6.332	143301	127470	0.890	0.26	
6.370	73540	54748	0.744	0.13	
6.431	274703	227181	0.827	0.50	
6.509	904332	825573	0.913	1.67	
6.535	269821	254692	0.944	0.50	
6.559	152871	139683	0.914	0.28	
6.604	47348	37608	0.794	0.08	
6.660	34734	31198	0.898	0.06	
6.717	171350	149715	0.874	0.31	
6.757	225456	197407	0.876	0.41	
6.801	216746	196005	0.904	0.40	
6.837	134951	105620	0.783	0.25	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.912	39852	38065	0.955	0.07	
6.941	124380	110284	0.887	0.23	
7.004	557583	512473	0.919	1.03	8 Aroclor 1260
7.033	72816	69000	0.948	0.13	
7.119	36752	23187	0.631	0.06	
7.250	277163	242844	0.876	0.51	8 Aroclor 1260
7.280	118266	93504	0.791	0.21	
7.331	16209	12439	0.767	0.03	
7.388	395125	334585	0.847	0.73	
7.441	362319	304872	0.841	0.67	8 Aroclor 1260
7.550	12452	13841	1.112	0.02	
7.581	11427	11262	0.986	0.02	
7.638	9151	6411	0.701	0.01	
7.690	106351	93860	0.883	0.19	
7.724	109482	93890	0.858	0.20	
7.799	67790	48228	0.711	0.12	
7.899	269663	237148	0.879	0.50	8 Aroclor 1260
7.962	36643	23795	0.649	0.06	
8.052	20830	17290	0.830	0.03	
8.273	326052	287184	0.881	0.60	
8.375	10838	10582	0.976	0.02	
8.570	10127555	8894560	0.878	18.79	$ 12 Decachlorobiphenyl
9.167	50020	40394	0.808	0.09	
9.461	9902	8007	0.809	0.01	
9.950	9348	7926	0.848	0.01	
	53888026	46866134		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318026.D
Lab Smp Id: 1672273 Client Smp ID: ND5-170615-01-LMB-0
Inj Date : 13-APR-2018 20:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1672273,
Misc Info : 17670,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041318.b\pcba030618.m
Meth Date : 19-Apr-2018 09:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26 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	10.026	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.802	1.804	-0.002	11692	0.01123	5.6	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	123150	0.22479	110	0.00- 20.00	1053.28	BA
2.680	2.688	-0.008	13291	0.00961	4.8	0.00- 20.00	113.68	BA
2.788	2.789	-0.001	38255	0.03460	17	0.00- 20.00	327.19	BA
2.849	2.851	-0.002	63709	0.01957	9.8	0.00- 20.00	544.89	BA
Average of Peak Concentrations =					30			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10243309	0.08308	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	1459720	0.62302	310	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1084177	0.26123	130	0.00- 20.00	74.27	BA
4.811	4.812	-0.001	578552	0.28499	140	0.00- 20.00	39.63	BA
4.892	4.879	0.013	1478829	0.29357	150	0.00- 20.00	101.31	BA
5.035	5.038	-0.003	406608	0.11331	56	0.00- 20.00	27.86	BA
Average of Peak Concentrations =					160			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1156312	0.22087	110	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	660909	0.15366	77	0.00- 20.00	57.16	BA
5.508	5.510	-0.002	1312088	0.16895	84	0.00- 20.00	113.47	BA
6.024	6.027	-0.003	569988	0.11705	58	0.00- 20.00	49.29	BA
6.301	6.299	0.002	1757452	0.27008	130	0.00- 20.00	151.99	BA
Average of Peak Concentrations =					93			
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	557583	0.05568	28	0.00- 20.00	31.73	BA
7.249	7.251	-0.002	277162	0.05799	29	0.00- 20.00	15.77	BA
7.440	7.443	-0.003	362318	0.12429	62	0.00- 20.00	20.62	BA
7.898	7.901	-0.003	269663	0.10219	51	0.00- 20.00	15.34	BA
Average of Peak Concentrations =					42			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10127554	0.09244	46			

QC Flag Legend

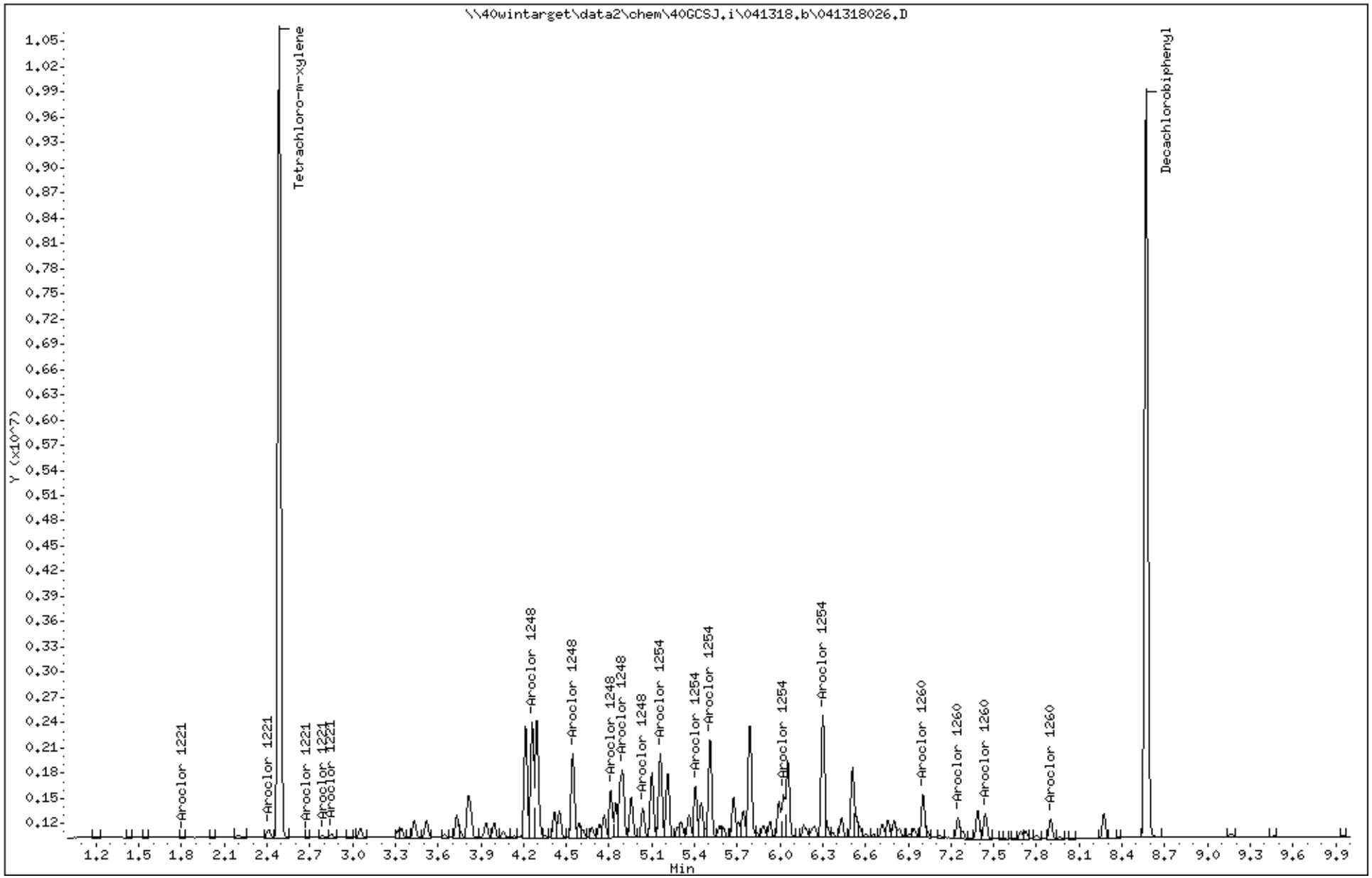
M - Compound response manually integrated.

Review Codes Legend

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

:

Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318026.D
Date : 13-APR-2018 20:22
Client ID: ND5-170615-01-LMB-0
Instrument: 40GCSJ.i
Sample Info: 1672273,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



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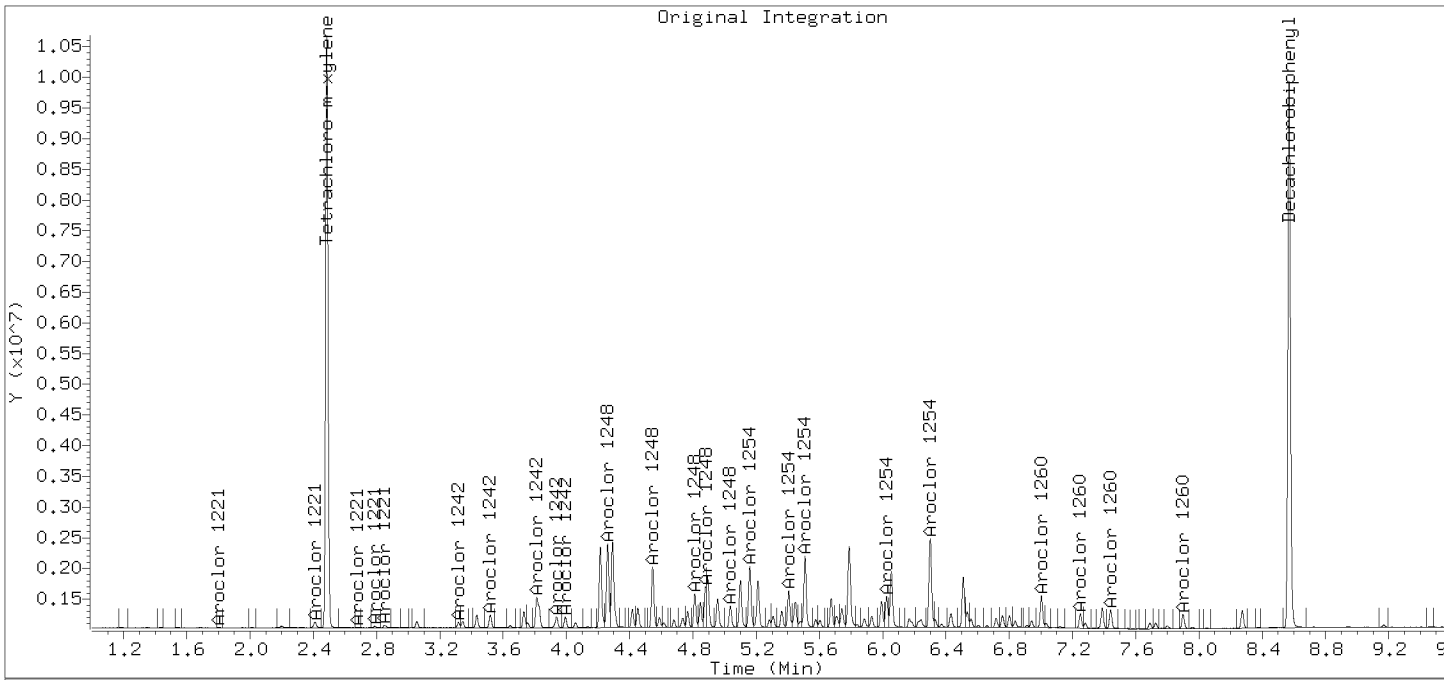
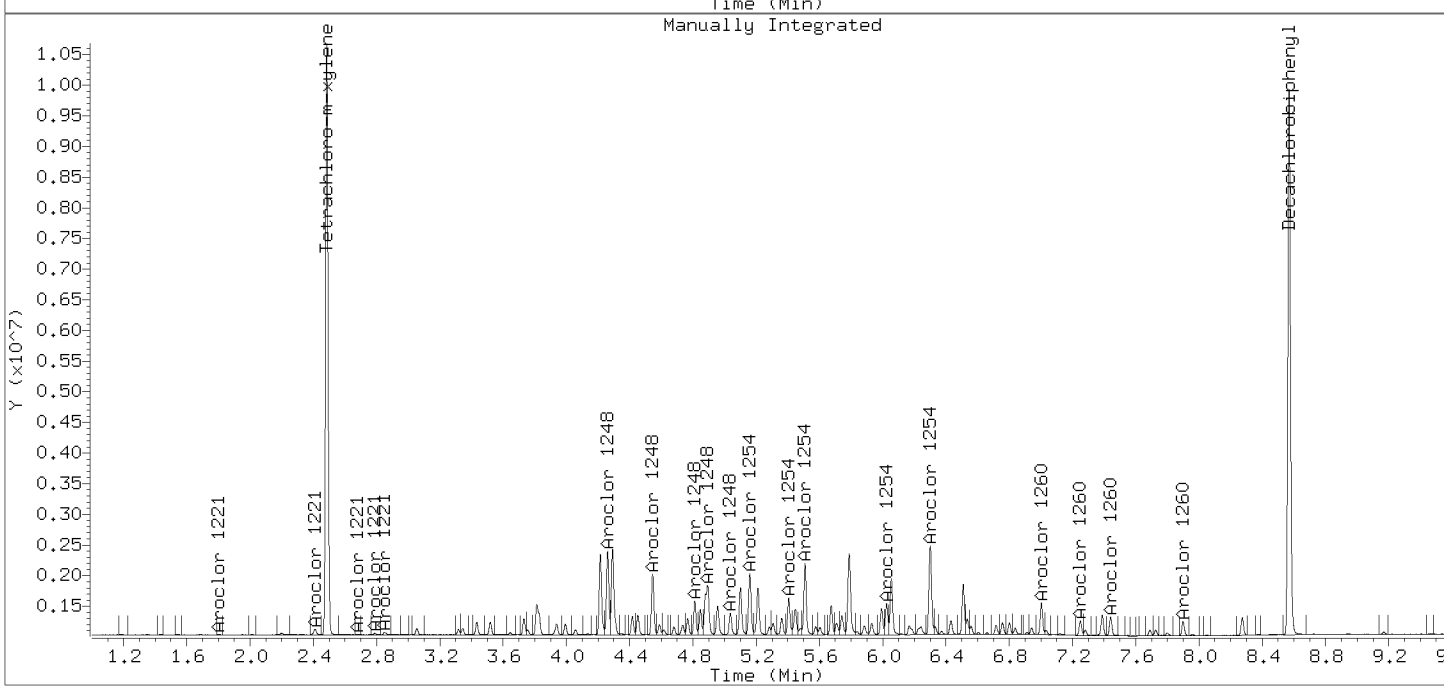
Injection Date: 13-APR-2018 20:22 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1672273





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	92771	0	
Aroclor 1016	92771	0	
Aroclor 1016	92771	0	
Aroclor 1016	92771	0	
Aroclor 1016	92771	0	
Aroclor 1221	9854	11692	BA
Aroclor 1221	9854	11692	BA
Aroclor 1221	9854	11692	BA
Aroclor 1221	9854	11692	BA
Aroclor 1221	9854	11692	BA
Aroclor 1232	58203	0	
Aroclor 1232	58203	0	
Aroclor 1232	58203	0	
Aroclor 1232	58203	0	

Aroclor 1232	58203	0	
Aroclor 1242	92771	0	
Aroclor 1242	92771	0	
Aroclor 1242	92771	0	
Aroclor 1242	92771	0	
Aroclor 1242	92771	0	
Aroclor 1248	1446514	1459720	BA
Aroclor 1248	1446514	1459720	BA
Aroclor 1248	1446514	1459720	BA
Aroclor 1248	1446514	1459720	BA
Aroclor 1248	1446514	1459720	BA
Aroclor 1254	1140069	1156312	BA
Aroclor 1254	1140069	1156312	BA
Aroclor 1254	1140069	1156312	BA
Aroclor 1254	1140069	1156312	BA
Aroclor 1254	1140069	1156312	BA
Aroclor 1260	1741179	0	BA
Aroclor 1260	1741179	0	BA
Aroclor 1260	1741179	0	BA
Aroclor 1260	1741179	0	BA
Aroclor 1260	1741179	0	BA
Tetrachloro-m-xylene	10231768	10243309	BA
Decachlorobiphenyl	10127554	10127554	

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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.: 40157698

Date Extracted: 04/13/2018 07:19

Lab Sample ID: 1673128

Date Analyzed: 04/17/2018 12:59

Lab File ID: 041718.B\041718008.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\041718.b\041718008.D
Lab Smp Id: 1673128 Client Smp ID: MB
Inj Date : 17-APR-2018 12:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1673128,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 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
1.186	26246	14146	0.539	0.14		
2.013	9839	9328	0.948	0.05		
2.199	21878	15563	0.711	0.11		
2.485	8953550	8237496	0.920	48.00	$ 2 Tetrachloro-m-xylene	
2.788	20695	16508	0.798	0.11		
2.862	14809	12384	0.836	0.07		
4.295	9551	6676	0.699	0.05		
6.866	11554	9964	0.862	0.06		
7.123	24553	19644	0.800	0.13		
7.695	15442	12634	0.818	0.08		
7.729	54699	43963	0.804	0.29		
7.802	49100	40741	0.830	0.26		
8.277	91874	76371	0.831	0.49		
8.572	9348365	7744901	0.828	50.16	$ 12 Decachlorobiphenyl	
	18652155	16260319		100.000		

Total unknown % area = 1.8

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718008.D
Lab Smp Id: 1673128 Client Smp ID: MB
Inj Date : 17-APR-2018 12:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1673128,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 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	8953549	0.07262	36			
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

8.571	8.571	0.000	9348364	0.08533		43		

Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718008.D

Date : 17-APR-2018 12:59

Client ID: MB

Instrument: 40GCSJ.i

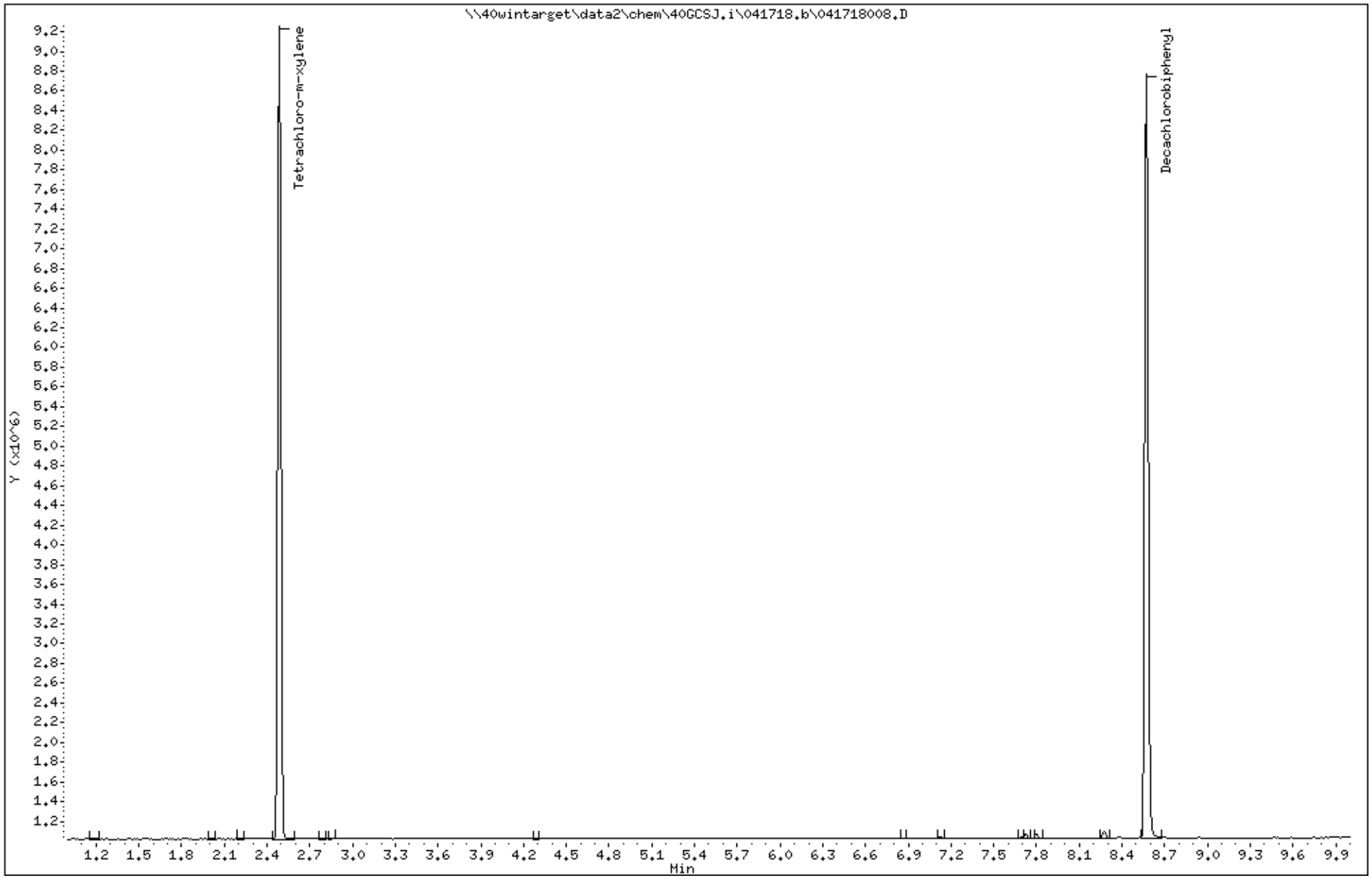
Sample Info: 1673128,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 12:59 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1673128

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	8953549	8953549	
Decachlorobiphenyl	9348364	9348364	

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.: 40157698

Date Extracted: 04/13/2018 07:19

Lab Sample ID: 1673129

Date Analyzed: 04/17/2018 13:15

Lab File ID: 041718.B\041718009.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)	207	
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\041718.b\041718009.D
Lab Smp Id: 1673129 Client Smp ID: MBLCS
Inj Date : 17-APR-2018 13:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1673129,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 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
1.428	11981	8027	0.670	0.02		
1.534	12564	6942	0.553	0.03		
1.805	14141	11251	0.796	0.03		
2.200	24005	15135	0.630	0.05		
2.405	101024	75894	0.751	0.24		
2.485	9328378	8834589	0.947	23.32	$ 2 Tetrachloro-m-xylene	
2.688	153313	119698	0.781	0.37		
2.790	183079	167636	0.916	0.45		
2.851	817745	734807	0.899	2.01		
2.920	12207	8448	0.692	0.03		
3.055	107245	96349	0.898	0.26		
3.281	20935	16212	0.774	0.05		
3.318	1051450	973511	0.926	2.59	3 Aroclor 1242	BA
3.345	605341	559058	0.924	1.49		
3.434	169575	149541	0.882	0.41		
3.514	1040309	752617	0.723	2.56	3 Aroclor 1242	BA
3.695	30727	29929	0.974	0.07		
3.732	268879	258753	0.962	0.66		
3.756	180273	168593	0.935	0.44		
3.826	2961247	1695049	0.572	7.30	3 Aroclor 1242	BA
3.929	1275931	1034338	0.811	3.14	3 Aroclor 1242	BA
3.994	832257	785251	0.944	2.05	3 Aroclor 1242	BA
4.058	238494	211462	0.887	0.58		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.137	96847	85453	0.882	0.23	
4.215	702174	653428	0.931	1.73	
4.261	660358	629691	0.954	1.62	
4.293	257121	280829	1.092	0.63	
4.311	349898	303514	0.867	0.86	
4.368	24561	19819	0.807	0.06	
4.417	925270	865676	0.936	2.28	
4.453	702757	519783	0.740	1.73	
4.546	1188397	1049874	0.883	2.93	
4.619	274603	243845	0.888	0.67	
4.680	18512	16876	0.912	0.04	
4.728	58804	48976	0.833	0.14	
4.769	66570	59969	0.901	0.16	
4.815	516694	495527	0.959	1.27	
4.849	933752	856773	0.918	2.30	
4.879	1196088	860459	0.719	2.94	
4.959	142959	105743	0.740	0.35	
5.037	976488	881878	0.903	2.40	
5.099	216127	157119	0.727	0.53	
5.163	236906	206946	0.874	0.58	
5.212	180610	147330	0.816	0.44	
5.276	16615	13754	0.828	0.04	
5.311	44227	34917	0.789	0.10	
5.364	147233	124475	0.845	0.36	
5.407	254123	209096	0.823	0.62	
5.448	158122	131513	0.832	0.38	
5.511	413571	298558	0.722	1.01	
5.606	127718	103972	0.814	0.31	
5.672	16582	14330	0.864	0.04	
5.718	20377	19499	0.957	0.05	
5.742	43746	27739	0.634	0.10	
5.792	260677	196603	0.754	0.64	
5.892	40957	24568	0.600	0.10	
6.024	211076	178551	0.846	0.52	
6.057	55618	35831	0.644	0.13	
6.171	18882	14713	0.779	0.04	
6.298	51384	43770	0.852	0.12	
6.510	10130	11443	1.130	0.02	
6.535	20810	16695	0.802	0.05	
6.716	10157	11611	1.143	0.02	
7.004	13025	12826	0.985	0.03	
7.122	24390	16609	0.681	0.06	
7.691	17431	13937	0.800	0.04	
7.728	55274	45492	0.823	0.13	
7.804	49088	38627	0.787	0.12	
8.275	87031	75664	0.869	0.21	
8.572	9210006	7699308	0.836	22.70	$ 12 Decachlorobiphenyl
9.471	10433	7179	0.688	0.02	
	40555275	34623878		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718009.D
Lab Smp Id: 1673129 Client Smp ID: MBLCS
Inj Date : 17-APR-2018 13:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1673129,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 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			
2.484	2.484	0.000	9328377	0.07566	38			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1051449	0.41507	210	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1040308	0.41282	210	0.00- 20.00	98.94	BA
3.826	3.827	-0.001	2961246	0.41611	210	0.00- 20.00	281.63	BA
3.928	3.929	-0.001	1275931	0.41950	210	0.00- 20.00	121.35	BA
3.994	3.995	-0.001	832256	0.40643	200	0.00- 20.00	79.15	BA
Average of Peak Concentrations =					210			

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	9210006	0.08406	42	

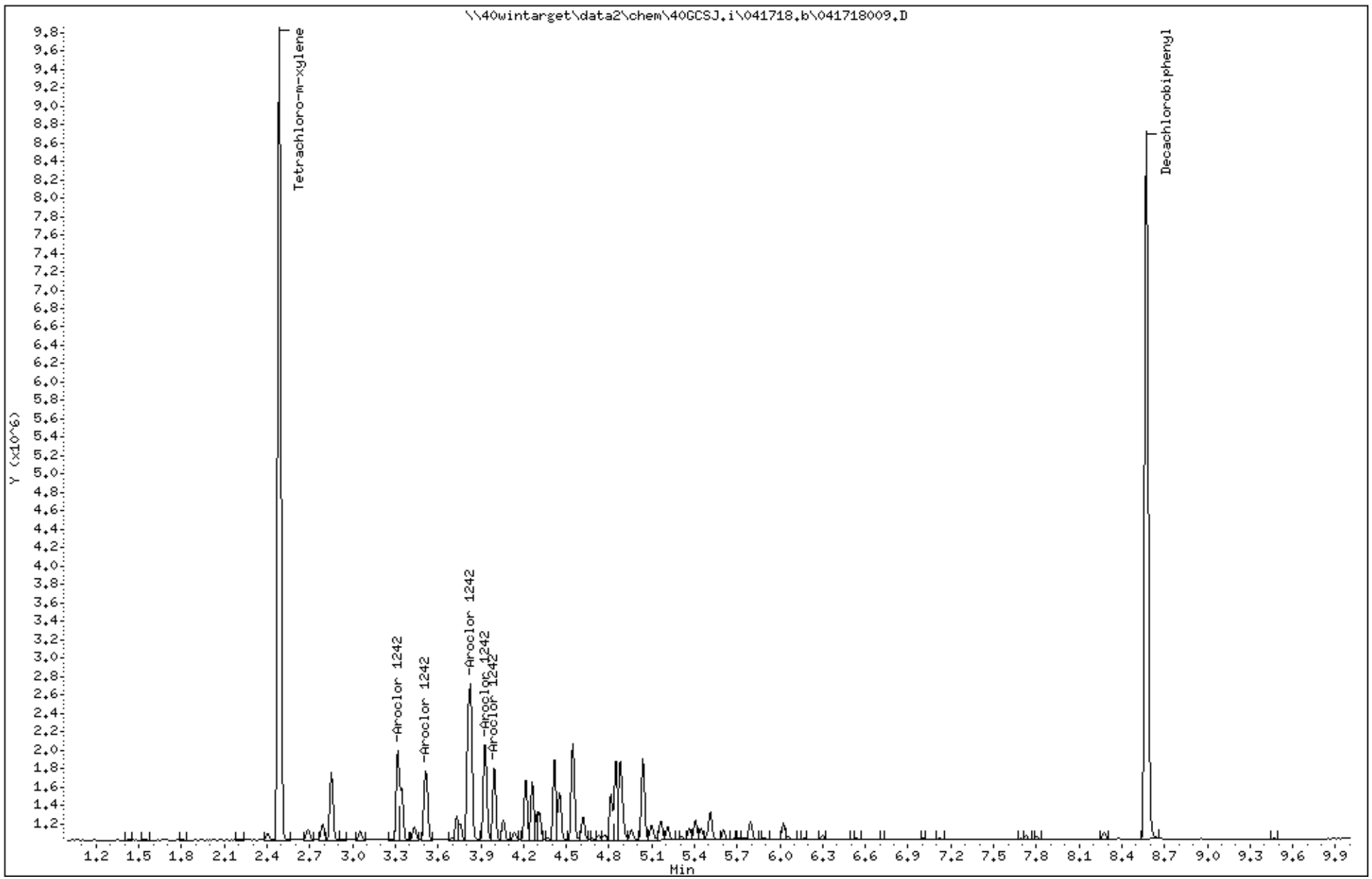
QC Flag Legend

M - Compound response manually integrated.

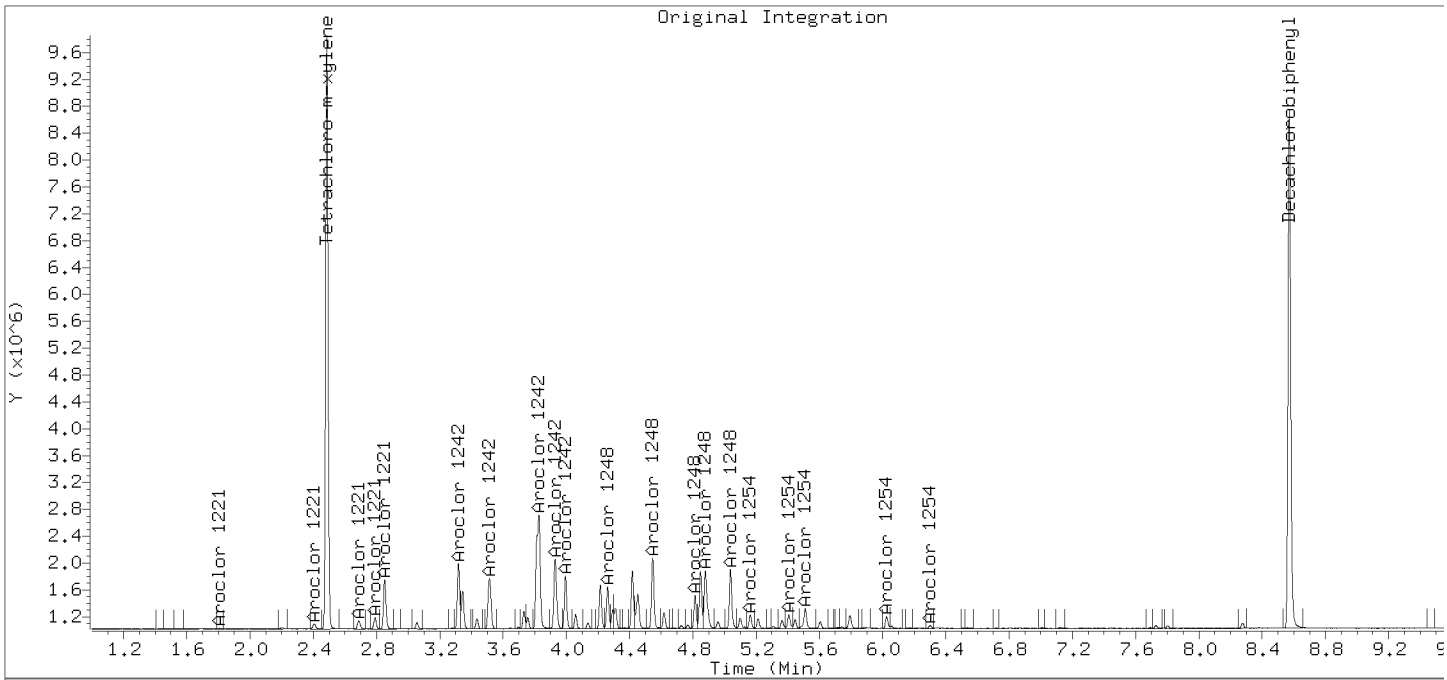
Review Codes Legend

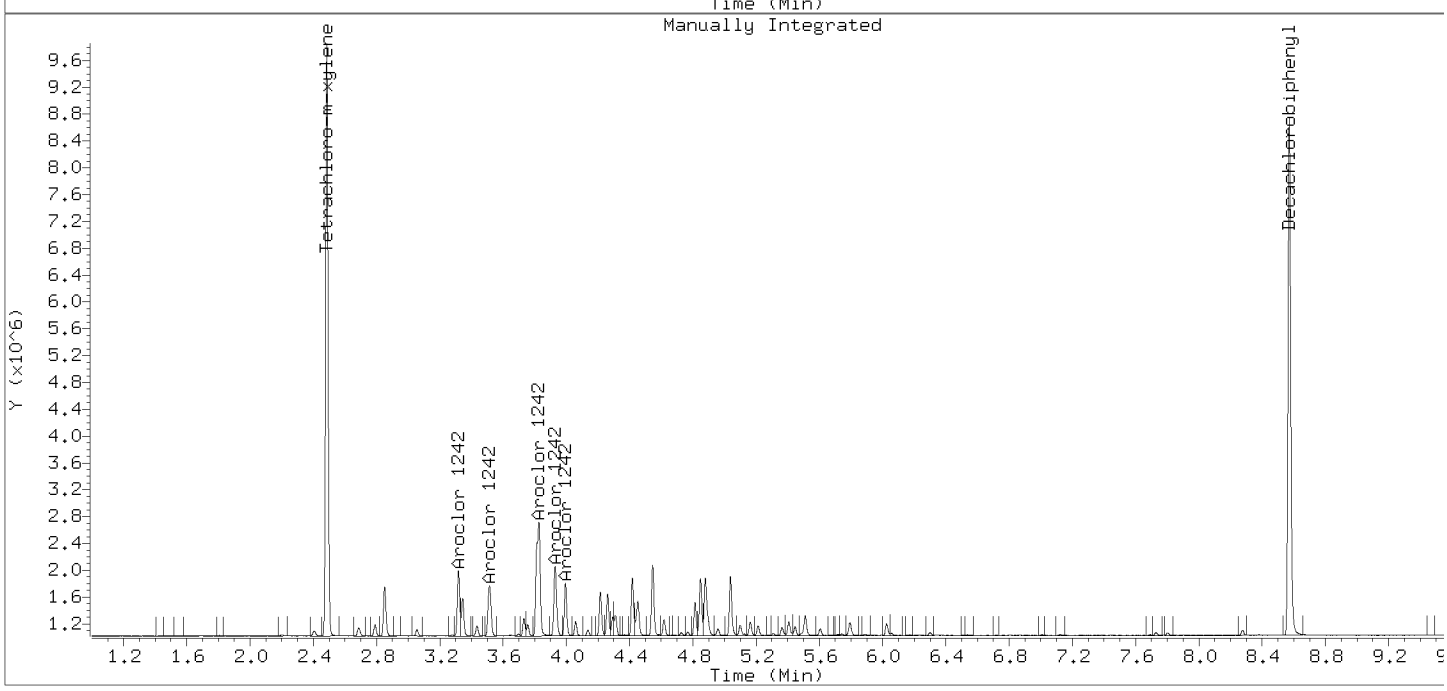
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718009.D
Date : 17-APR-2018 13:15
Client ID: MBLCS
Instrument: 40GCSJ.i
Sample Info: 1673129,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 13:15 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1673129





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1043967	0	
Aroclor 1016	1043967	0	
Aroclor 1016	1043967	0	
Aroclor 1016	1043967	0	
Aroclor 1016	1043967	0	
Aroclor 1221	14141	0	
Aroclor 1221	14141	0	
Aroclor 1221	14141	0	
Aroclor 1221	14141	0	
Aroclor 1221	14141	0	
Aroclor 1232	817744	0	
Aroclor 1232	817744	0	
Aroclor 1232	817744	0	
Aroclor 1232	817744	0	

Aroclor 1232	817744	0	
Aroclor 1242	1043967	1051449	BA
Aroclor 1242	1043967	1051449	BA
Aroclor 1242	1043967	1051449	BA
Aroclor 1242	1043967	1051449	BA
Aroclor 1242	1043967	1051449	BA
Aroclor 1248	649963	0	
Aroclor 1248	649963	0	
Aroclor 1248	649963	0	
Aroclor 1248	649963	0	
Aroclor 1248	649963	0	
Aroclor 1254	227748	0	
Aroclor 1254	227748	0	
Aroclor 1254	227748	0	
Aroclor 1254	227748	0	
Aroclor 1254	227748	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9328377	9328377	
Decachlorobiphenyl	9210006	9210006	

==========

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: 09/29/2017 10:00
Matrix: Tissue SDG No.: 40157698
Date Extracted: 04/13/2018 07:19
Lab Sample ID: 1673132
Date Analyzed: 04/17/2018 15:37
Lab File ID: 041718.B\041718018.D
Initial wt/vol: 10.0019 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)	301	
11097-69-1	PCB-1254 (Aroclor 1254)	303	
11096-82-5	PCB-1260 (Aroclor 1260)	141	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718018.D
Lab Smp Id: 1673132 Client Smp ID: TD4-170615-01-SMB-0
Inj Date : 17-APR-2018 15:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1673132 x2,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18 QC Sample: FIELDDUP
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * 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	10.002	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.027	11117	5905	0.531	0.02		
1.686	10441	10800	1.034	0.01		
2.410	29134	22921	0.787	0.05		
2.484	5588946	5309106	0.950	10.86	$ 2 Tetrachloro-m-xylene	
2.786	13795	13376	0.970	0.02		
2.848	29221	23775	0.814	0.05		
2.971	13333	11468	0.860	0.02		
3.055	50061	46565	0.930	0.09		
3.318	45754	44992	0.983	0.08		
3.342	63393	56202	0.887	0.11		
3.434	80820	73502	0.909	0.15		
3.517	115557	98499	0.852	0.21		
3.643	14916	13874	0.930	0.02		
3.732	112348	109441	0.974	0.20		
3.756	58748	48173	0.820	0.10		
3.826	494290	274036	0.554	0.92		
3.938	150967	115231	0.763	0.28		
3.992	129679	117992	0.910	0.24		
4.056	74613	59869	0.802	0.13		
4.136	23480	16591	0.707	0.04		
4.214	940302	849347	0.903	1.75		
4.260	976473	927550	0.950	1.82	6 Aroclor 1248	BA
4.292	1305328	1052282	0.806	2.43		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	356642	331497	0.929	0.66	
4.452	316018	278844	0.882	0.58	
4.545	750710	697457	0.929	1.40	6 Aroclor 1248
4.588	117785	108082	0.918	0.21	
4.616	86793	76405	0.880	0.16	
4.680	116438	105162	0.903	0.21	
4.735	166199	125746	0.757	0.31	
4.767	212854	198219	0.931	0.39	
4.813	770088	753608	0.979	1.43	6 Aroclor 1248
4.847	476072	455996	0.958	0.88	
4.879	1797563	1063607	0.592	3.35	6 Aroclor 1248
4.956	386328	323215	0.837	0.72	
5.037	621255	576543	0.928	1.15	6 Aroclor 1248
5.101	811300	730194	0.900	1.51	
5.161	1605405	1398638	0.871	2.99	7 Aroclor 1254
5.211	1444634	1271777	0.880	2.69	
5.282	173141	152871	0.883	0.32	
5.307	279640	238096	0.851	0.52	
5.363	473305	424950	0.898	0.88	
5.406	1084423	966391	0.891	2.02	7 Aroclor 1254
5.447	971796	794718	0.818	1.81	
5.478	132767	123130	0.927	0.24	
5.509	1562608	1371894	0.878	2.91	7 Aroclor 1254
5.578	126516	113696	0.899	0.23	
5.604	220867	190024	0.860	0.41	
5.674	638054	609101	0.955	1.19	
5.709	355159	265217	0.747	0.66	
5.741	488791	363356	0.743	0.91	
5.789	2904772	2233746	0.769	5.41	
5.885	296716	224578	0.757	0.55	
5.930	340908	276383	0.811	0.63	
5.993	701502	663510	0.946	1.30	
6.025	1306038	1135345	0.869	2.43	7 Aroclor 1254
6.055	2168749	1831086	0.844	4.04	
6.168	539342	372024	0.690	1.00	
6.226	214892	229658	1.069	0.40	
6.241	321672	255416	0.794	0.60	
6.299	3181361	2572313	0.809	5.93	7 Aroclor 1254
6.332	336715	305522	0.907	0.62	
6.373	157962	132248	0.837	0.29	
6.432	466531	395959	0.849	0.87	
6.509	1083242	997071	0.920	2.02	
6.535	607764	565109	0.930	1.13	
6.559	300593	270688	0.901	0.56	
6.604	130396	107551	0.825	0.24	
6.659	65576	59590	0.909	0.12	
6.718	339023	294022	0.867	0.63	
6.758	400904	356815	0.890	0.74	
6.801	473263	427568	0.903	0.88	
6.840	253081	197724	0.781	0.47	
6.911	55693	52865	0.949	0.10	
6.942	253358	227420	0.898	0.47	
7.004	1182110	1087350	0.920	2.20	8 Aroclor 1260
7.035	112303	102386	0.912	0.20	
7.074	21262	20786	0.978	0.03	
7.118	39739	32464	0.817	0.07	
7.252	534899	465454	0.870	0.99	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.282	173980	145413	0.836	0.32	
7.338	11169	9322	0.835	0.02	
7.389	509968	434145	0.851	0.95	
7.442	495292	425509	0.859	0.92	8 Aroclor 1260
7.552	27648	27324	0.988	0.05	
7.690	136391	128272	0.940	0.25	
7.727	116666	97679	0.837	0.21	
7.802	79884	50361	0.630	0.14	
7.900	430546	364559	0.847	0.80	8 Aroclor 1260
7.960	52191	32993	0.632	0.09	
8.049	71104	57791	0.813	0.13	
8.274	343213	296728	0.865	0.64	
8.378	19308	10657	0.552	0.03	
8.452	10954	8025	0.733	0.02	
8.570	5412176	4743676	0.876	10.09	$ 12 Decachlorobiphenyl
8.725	13424	13948	1.039	0.02	
9.167	35571	29643	0.833	0.06	
	53605719	46178627		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718018.D
Lab Smp Id: 1673132 Client Smp ID: TD4-170615-01-SMB-0
Inj Date : 17-APR-2018 15:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1673132 x2,
Misc Info : 17685,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041718.b\pcba030618.m
Meth Date : 19-Apr-2018 10:45 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18 QC Sample: FIELDDUP
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * 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	10.002	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5588946	0.04533	45			
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	976473	0.41677	420	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	750710	0.18088	180	0.00- 20.00	76.88	BA
4.812	4.812	0.000	770088	0.37934	380	0.00- 20.00	78.86	BA
4.878	4.879	-0.001	1797563	0.35684	360	0.00- 20.00	184.09	BA
5.036	5.038	-0.002	621254	0.17312	170	0.00- 20.00	63.62	BA
Average of Peak Concentrations =					300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1605405	0.30665	310	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1084422	0.25213	250	0.00- 20.00	67.55	BA
5.509	5.510	-0.001	1562608	0.20121	200	0.00- 20.00	97.33	BA
6.024	6.027	-0.003	1306037	0.26820	270	0.00- 20.00	81.35	BA
6.299	6.299	0.000	3181361	0.48891	490	0.00- 20.00	198.17	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	1182109	0.11804	120	0.00- 20.00	37.16	BA
7.251	7.251	0.000	534898	0.11191	110	0.00- 20.00	16.81	BA
7.441	7.443	-0.002	495291	0.16990	170	0.00- 20.00	15.57	BA
7.899	7.901	-0.002	430545	0.16316	160	0.00- 20.00	13.53	BA
Average of Peak Concentrations =					140			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5412176	0.04940	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\041718.b\041718018.D

Date : 17-APR-2018 15:37

Client ID: TD4-170615-01-SMB-0

Instrument: 40GCSJ.i

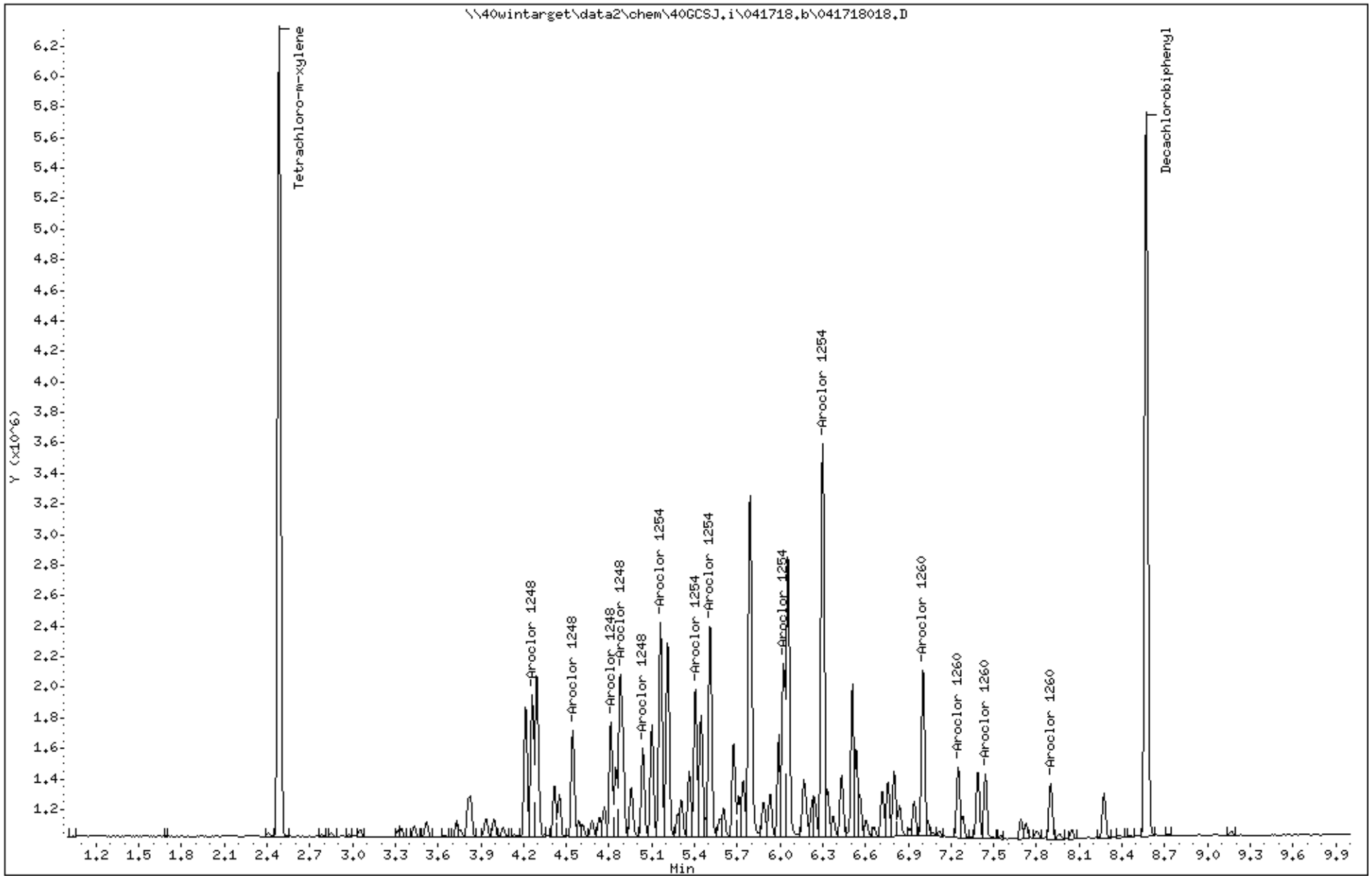
Sample Info: 1673132 x2,

Volume Injected (uL): 1.0

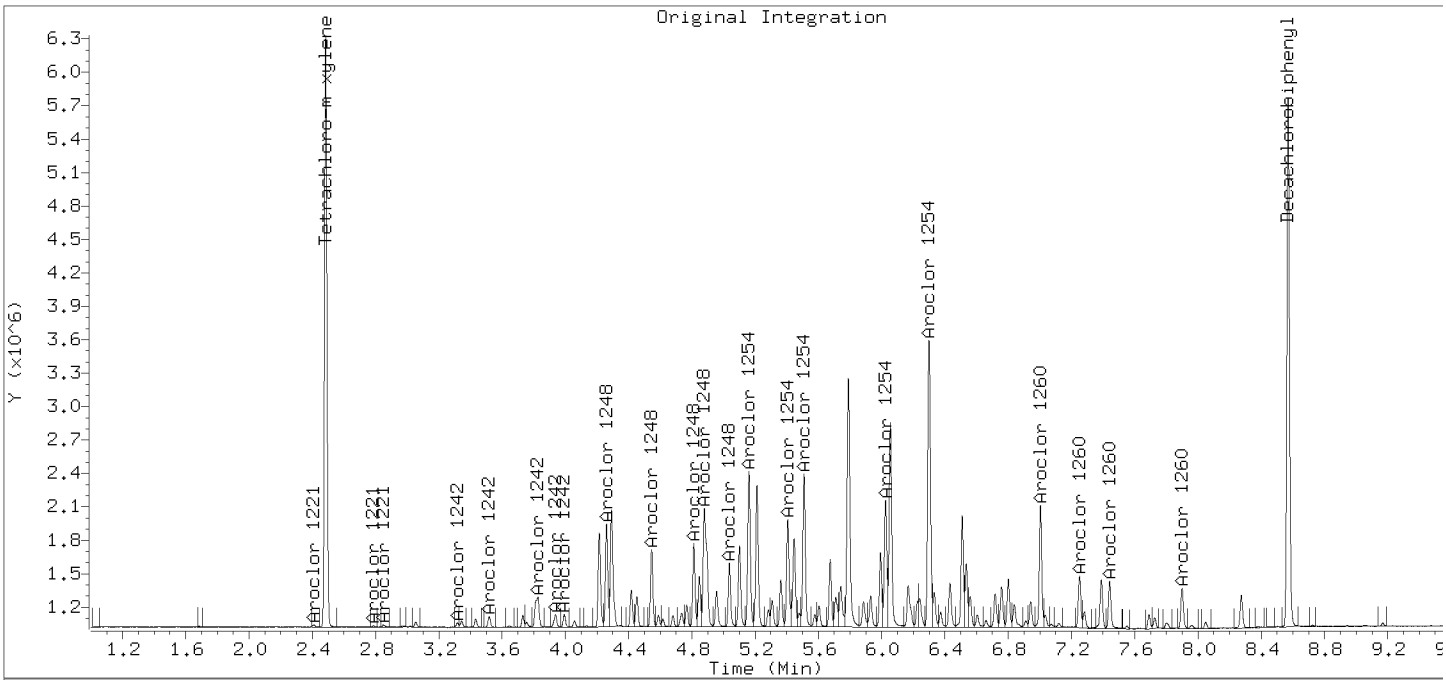
Operator: BLM

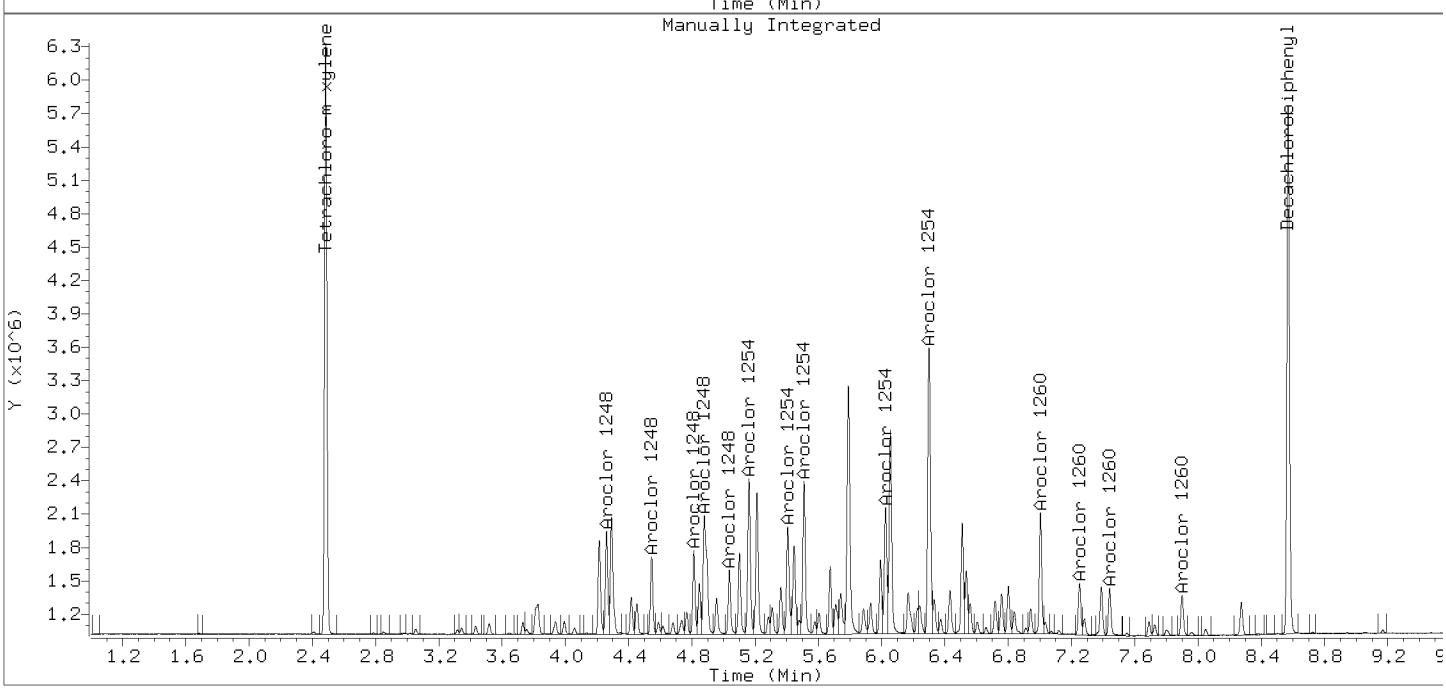
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 15:37 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1673132





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	45753	0	
Aroclor 1016	45753	0	
Aroclor 1016	45753	0	
Aroclor 1016	45753	0	
Aroclor 1016	45753	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	29220	0	
Aroclor 1232	29220	0	
Aroclor 1232	29220	0	
Aroclor 1232	29220	0	

Aroclor 1232	29220	0	
Aroclor 1242	45753	0	
Aroclor 1242	45753	0	
Aroclor 1242	45753	0	
Aroclor 1242	45753	0	
Aroclor 1242	45753	0	
Aroclor 1248	960426	976473	BA
Aroclor 1248	960426	976473	BA
Aroclor 1248	960426	976473	BA
Aroclor 1248	960426	976473	BA
Aroclor 1248	960426	976473	BA
Aroclor 1254	1597846	1605405	BA
Aroclor 1254	1597846	1605405	BA
Aroclor 1254	1597846	1605405	BA
Aroclor 1254	1597846	1605405	BA
Aroclor 1254	1597846	1605405	BA
Aroclor 1260	3184412	0	BA
Aroclor 1260	3184412	0	BA
Aroclor 1260	3184412	0	BA
Aroclor 1260	3184412	0	BA
Aroclor 1260	3184412	0	BA
Tetrachloro-m-xylene	5588946	5588946	
Decachlorobiphenyl	5412176	5412176	

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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

40157698

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.**

Prep Log Report

Batch Information: OEXT 285844 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	04/12/2018 07:14:37:812
Spiked By	AMC	Spiked By Date/Time	04/12/2018 07:14:38:635	Witnessed By	ETB	Witnessed By Date/Time	04/12/2018 07:14:39:332
Instrument	40BAL2	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	193584	Hexane	192551	Sodium Sulfate	193164	Florisil	186910
3620B Date/Initials	4/13/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	4/13/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/19/2018 09:50	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	**1672269**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1672270**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40157492006**	9.9656	5	3		193230 (.25)	
8082A TNYP	PS	**40157492007**	9.9904	5	3		193230 (.25)	
8082A TNYP	PS	**40157492008**	10.0007	5	3		193230 (.25)	
8082A TNYP	PS	**40157492009**	10.0355	5	3		193230 (.25)	
8082A TNYP	PS	**40157492010**	9.9951	5	3		193230 (.25)	
8082A TNYP	PS	**40157492011**	9.9652	5	3		193230 (.25)	
8082A TNYP	PS	**40157492016**	9.9995	5	3		193230 (.25)	
8082A TNYP	DUP	**1672271**	9.9727	5	3		193230 (.25)	
8082A TNYP	PS	**40157698008**	9.9712	5	3		193230 (.25)	
8082A TNYP	PS	**40157698009**	9.9904	5	3		193230 (.25)	
8082A TNYP	PS	**40157698010**	9.9685	5	3		193230 (.25)	
8082A TNYP	RQS	**40157698011**	10.0296	5	3		193230 (.25)	
8082A TNYP	MS	**1672272**	10.0077	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1672273**	10.0262	5	3		193230 (.25)	

Prep Log Report

40157698

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	**40157703001**	10.0274	5	3		193230 (.25)	
8082A TNYP	PS	**40157703005**	9.9805	5	3		193230 (.25)	
8082A TNYP	PS	**40157830013**	9.9973	5	3		193230 (.25)	

Standard Notes:

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

Prep Log Report

Batch Information: OEXT 285995 PCB-B

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

Prep Method	Pace Lipid	Analysis Method	Pace Lipid	Extracted By	AMC	Extracted Date/Time	04/13/2018 07:19:51:890
Spiked By	AMC	Spiked By Date/Time	04/13/2018 07:19:52:730	Witnessed By	ETB	Witnessed By Date/Time	04/13/2018 07:19:53:539
Instrument	40BAL2	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	193857	Hexane	192551	Sodium Sulfate	193893	Florisil	186910
3620B Date/Initials	4/17/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	4/17/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/19/2018 10:45	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	**1673128**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1673129**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40157492018**	10.0099	5	3		193230 (.25)	
8082A TNYP	RQS	**40157492019**	10.218	5	3		193230 (.25)	
8082A TNYP	MS	**1673130**	9.9947	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1673131**	10.0257	5	3		193230 (.25)	
8082A TNYP	PS	**40157492020**	9.9954	5	3		193230 (.25)	
8082A TNYP	PS	**40157698001**	9.9916	5	3		193230 (.25)	
8082A TNYP	DUP	**1673132**	10.0019	5	3		193230 (.25)	
8082A TNYP	PS	**40157698002**	10.005	5	3		193230 (.25)	
8082A TNYP	PS	**40157698003**	10.0159	5	3		193230 (.25)	
8082A TNYP	PS	**40157698004**	9.9832	5	3		193230 (.25)	
8082A TNYP	PS	**40157698005**	10	5	3		193230 (.25)	
8082A TNYP	RQS	**40157830003**	10.0351	5	3		193230 (.25)	
8082A TNYP	DUP	**1673133**	9.9747	5	3		193230 (.25)	
8082A TNYP	PS	**40157830008**	9.972	5	3		193230 (.25)	

Prep Log Report

40157698

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	**40157830009**	9.9763	5	3		193230 (.25)	
8082A TNYP	PS	**40157830010**	9.9958	5	3		193230 (.25)	
8082A TNYP	PS	**40157830011**	10.0128	5	3		193230 (.25)	
8082A TNYP	PS	**40157830012**	10.0055	5	3		193230 (.25)	
8082A TNYP	PS	**40157830019**	10.0288	5	3		193230 (.25)	

Standard Notes:

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

PROJECT 40GCSI 041118 Screener

Notebook No. 4418

Continued from Page —

```
Sequence Name: C:\msdchem\1\sequence\041118.s
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     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           ---5----
     Method             SCREEN2014
12) Sample         12  40167698-013 x2
     Datafile           ---5----
     Method             SCREEN2014
13) RearSamp       13  40167698-014 x2
     Datafile           ---5----
     Method             SCREEN2014
14) Sample         14  40167698-015 —
     Datafile           ---5----
     Method             SCREEN2014
15) RearSamp       15  40167698-016 x3
     Datafile           ---5----
     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
```

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\041318.s
      Comment:
     Operator:
    Data Path: C:\MSDCHEM\1\DATA\041318\
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  1672269MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1672270LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  40157492-006 —
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  40157492-007 x 3
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40157492-008 —
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40157492-009 x 2
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40157492-010 x 5
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40157492-011 x 5
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40157492-016 —
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  1672271DUP —
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40157698-008 x 2
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40157698-009 x 2
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40157698-010 x 15
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40157698-011 ~~x 2~~ —
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  1672272MS —
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  1672273DUP —
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40157703-001 x 2
     Datafile           --------

  Last Modified: Fri Apr 13 10:06:18 2018
```

GE BIOTA

BLM 4/13/18

Page: 1

BLM 4/18/18

Continued on Page 53

Read and Understood By

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

Signed: [signature] Date: 4-18-18

```
     Method              SCREEN2014
20)  Sample        20    40157703-005
     Datafile            --------
     Method              SCREEN2014
21)  RearSamp      21    40157830-013 ×2
     Datafile            --------
     Method              SCREEN2014
22)  Sample        22    HEXANE
     Datafile            --------
     Method              SCREEN2014
```

Last Modified: Fri Apr 13 10:06:18 2018 Page: 2

BLM 4/18/18

Continued on Page —

Read and Understood By

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

Signed: Jim O'Connor Date: 4-18-18

PROJECT 40GCSI Screener 04/17/18

Notebook No. 4418

Continued from Page —

```
   Sequence Name: C:\msdchem\1\sequence\041718.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\041718\
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  1673128MB
      Datafile         --------
      Method           SCREEN2014
 4) Sample          4  1673129LCS
      Datafile         --------
      Method           SCREEN2014
 5) RearSamp        5  40157492-018 x2
      Datafile         --------
      Method           SCREEN2014
 6) Sample          6  40157492-019 —
      Datafile         --------
      Method           SCREEN2014
 7) RearSamp        7  1673130MS —
      Datafile         --------
      Method           SCREEN2014
 8) Sample          8  1673131DUP —
      Datafile         --------
      Method           SCREEN2014
 9) RearSamp        9  40157492-020 —
      Datafile         --------
      Method           SCREEN2014
10) Sample         10  40157698-001 x2
      Datafile         --------
      Method           SCREEN2014
11) RearSamp       11  1673132DUP x2
      Datafile         --------
      Method           SCREEN2014
12) Sample         12  40157698-002 x5
      Datafile         --------
      Method           SCREEN2014
13) RearSamp       13  40157698-003 x2
      Datafile         --------
      Method           SCREEN2014
14) Sample         14  40157698-004 x3
      Datafile         --------
      Method           SCREEN2014
15) RearSamp       15  40157698-005 x4
      Datafile         --------
      Method           SCREEN2014
16) Sample         16  40157830-003 x3
      Datafile         --------
      Method           SCREEN2014
17) RearSamp       17  1673133DUP x3
      Datafile         --------
      Method           SCREEN2014
18) Sample         18  40157830-008 x3
      Datafile         --------
      Method           SCREEN2014
19) RearSamp       19  40157830-009 x3
      Datafile         --------

   Last Modified: Tue Apr 17 09:26:57 2018                Page:  1
```

GE BIOTA

BLM 4/18/18

Continued on Page 55

Read and Understood By

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

Signed: Jim O'Connor Date: 4-18-18

```
     Method          SCREEN2014
20) Sample       20  40157830-010 x2
     Datafile        --------
     Method          SCREEN2014
21) RearSamp     21  40157830-011 —
     Datafile        --------
     Method          SCREEN2014
22) Sample       22  40157830-012 —
     Datafile        --------
     Method          SCREEN2014
23) RearSamp     23  40157830-019 —
     Datafile        --------
     Method          SCREEN2014
24) Sample       24  HEXANE
     Datafile        --------
     Method          SCREEN2014
```

Last Modified: Tue Apr 17 09:26:57 2018 Page: 2

BLM 4/18/18

Continued on Page —

Read and Understood By

Signed: [signature] Date: 4/18/18 Signed: Jim O'Conn Date: 4-18-18

```
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

BLM 3/7/18

Continued on Page 5

Read and Understood By

Bryan Mayl — Signed — 3/7/18 — Date

Signed — 3/7/18 — Date

```
      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
```

BLM 3/7/18

Continued on Page 6

Read and Understood By

Bryan Meyer — 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
```

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\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

```
      Sequence Name: C:\msdchem\1\sequence\041318.s
            Comment:
           Operator: BLM
          Data Path: C:\MSDCHEM\1\DATA\041318\
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          041318001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041318002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041318003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 ok
     Datafile          041318004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 ok
     Datafile          041318005
     Method            GEBIOTA2017
 6) Sample          6  40157492005 x3,,17661,BIOTA
     Datafile          041318006
     Method            GEBIOTA2017
 7) Sample          7  40157694004 x2,,17661,BIOTA
     Datafile          041318007
     Method            GEBIOTA2017
 8) Sample          8  40157694006 x4,,17661,BIOTA
     Datafile          041318008
     Method            GEBIOTA2017
 9) Sample          9  1672269,,17670,BIOTA
     Datafile          041318009
     Method            GEBIOTA2017
10) Sample         10  1672270,,17670,BIOTA
     Datafile          041318010
     Method            GEBIOTA2017
11) Sample         11  40157492006,,17670,BIOTA
     Datafile          041318011
     Method            GEBIOTA2017
12) Sample         12  40157492007 x3,,17670,BIOTA
     Datafile          041318012
     Method            GEBIOTA2017
13) Sample         13  40157492008,,17670,BIOTA RS
     Datafile          041318013
     Method            GEBIOTA2017
14) Sample         14  40157492009 x2,,17670,BIOTA
     Datafile          041318014
     Method            GEBIOTA2017
15) Sample         15  40157492010 x5,,17670,BIOTA
     Datafile          041318015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 ok
     Datafile          041318016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 ok
     Datafile          041318017
     Method            GEBIOTA2017
18) Sample         18  40157492011 x5,,17670,BIOTA
     Datafile          041318018
     Method            GEBIOTA2017
19) Sample         19  40157492016,,17670,BIOTA
     Datafile          041318019

   Last Modified: Fri Apr 13 13:43:18 2018                Page:  1
```

BLM 4/18/18

Continued on Page 55

Read and Understood By

Bryan Mayl — Signed — 4/18/18 — Date

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

```
      Method              GEBIOTA2017
20)  Sample        20     1672271,,17670,BIOTA
      Datafile            041318020
      Method              GEBIOTA2017
21)  Sample        21     40157698008 x2,,17670,BIOTA
      Datafile            041318021
      Method              GEBIOTA2017
22)  Sample        22     40157698009 x2,,17670,BIOTA
      Datafile            041318022
      Method              GEBIOTA2017
23)  Sample        23     40157698010 x15,,17670,BIOTA
      Datafile            041318023
      Method              GEBIOTA2017
24)  Sample        24     40157698011,,17670,BIOTA
      Datafile            041318024
      Method              GEBIOTA2017
25)  Sample        25     1672272,,17670,BIOTA
      Datafile            041318025
      Method              GEBIOTA2017
26)  Sample        26     1672273,,17670,BIOTA
      Datafile            041318026
      Method              GEBIOTA2017
27)  Sample        27     40157703001 x2,,17670,BIOTA
      Datafile            041318027
      Method              GEBIOTA2017
28)  Sample        28     1232-CCV,185539:1,17498,AR123 OL
      Datafile            041318028
      Method              GEBIOTA2017
29)  Sample        29     1232-CCV,185539:1,17498,AR123 OL
      Datafile            041318029
      Method              GEBIOTA2017
30)  Sample        30     40157703005,,17670,BIOTA
      Datafile            041318030
      Method              GEBIOTA2017
31)  Sample        31     40157830013 x2,,17670,BIOTA RS
      Datafile            041318031
      Method              GEBIOTA2017
32)  Sample        32     1242-CCV,185544:1,17498,AR124 OL
      Datafile            041318032
      Method              GEBIOTA2017
33)  Sample        33     1242-CCV,185544:1,17498,AR124 OL
      Datafile            041318033
      Method              GEBIOTA2017
```

GCSV Batch 17670 Screened 40GCSI 4/13/18

Last Modified: Fri Apr 13 13:43:18 2018 Page: 2

BLM 4/18/18

Continued on Page —

Read and Understood By

Signed 4/18/18 Date

Signed Jim O'Conn 4-18-18 Date

```
   Sequence Name: C:\msdchem\1\sequence\041718.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\041718\
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          041718001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041718002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041718003
     Method            GEBIOTA2017
 4) Sample          4  1248-CCV,185549:1,17498,AR124 OK
     Datafile          041718004
     Method            GEBIOTA2017
 5) Sample          5  1248-CCV,185549:1,17498,AR124 OK
     Datafile          041718005
     Method            GEBIOTA2017
 6) Sample          6  40157492008 x2,,17670,BIOTA
     Datafile          041718006
     Method            GEBIOTA2017
 7) Sample          7  40157830013 x3,,17670,BIOTA
     Datafile          041718007
     Method            GEBIOTA2017
 8) Sample          8  1673128,,17685,BIOTA
     Datafile          041718008
     Method            GEBIOTA2017
 9) Sample          9  1673129,,17685,BIOTA
     Datafile          041718009
     Method            GEBIOTA2017
10) Sample         10  40157492018 x2,,17685,BIOTA
     Datafile          041718010
     Method            GEBIOTA2017
11) Sample         11  40157492019,,17685,BIOTA
     Datafile          041718011
     Method            GEBIOTA2017
12) Sample         12  1673130,,17685,BIOTA
     Datafile          041718012
     Method            GEBIOTA2017
13) Sample         13  1673131,,17685,BIOTA
     Datafile          041718013
     Method            GEBIOTA2017
14) Sample         14  40157492020,,17685,BIOTA RS
     Datafile          041718014
     Method            GEBIOTA2017
15) Sample         15  40157698001 x2,,17685,BIOTA
     Datafile          041718015
     Method            GEBIOTA2017
16) Sample         16  1254-CCV,185554:1,17498,AR125 OK
     Datafile          041718016
     Method            GEBIOTA2017
17) Sample         17  1254-CCV,185554:1,17498,AR125 OK
     Datafile          041718017
     Method            GEBIOTA2017
18) Sample         18  1673132 x2,,17685,BIOTA
     Datafile          041718018
     Method            GEBIOTA2017
19) Sample         19  40157698002 x5,,17685,BIOTA
     Datafile          041718019

   Last Modified: Tue Apr 17 10:57:32 2018                Page:  1
```

BLM 4/18/18

Continued on Page 57

Read and Understood By

Bryan Meyer — Signed — 4/18/18 — Date

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

```
     Method              GEBIOTA2017
20) Sample        20  40157698003 x2,,17685,BIOTA RS
     Datafile            041718020
     Method              GEBIOTA2017
21) Sample        21  40157698004 x3,,17685,BIOTA
     Datafile            041718021
     Method              GEBIOTA2017
22) Sample        22  40157698005 x4,,17685,BIOTA
     Datafile            041718022
     Method              GEBIOTA2017
23) Sample        23  40157830003 x3,,17685,BIOTA
     Datafile            041718023
     Method              GEBIOTA2017
24) Sample        24  1673133 x3,,17685,BIOTA
     Datafile            041718024
     Method              GEBIOTA2017
25) Sample        25  40157830008 x3,,17685,BIOTA
     Datafile            041718025
     Method              GEBIOTA2017
26) Sample        26  40157830009 x3,,17685,BIOTA
     Datafile            041718026
     Method              GEBIOTA2017
27) Sample        27  40157830010 x2,,17685,BIOTA
     Datafile            041718027
     Method              GEBIOTA2017
28) Sample        28  1660-CCV,185559:1,17498,AR166 OK
     Datafile            041718028
     Method              GEBIOTA2017
29) Sample        29  1660-CCV,185559:1,17498,AR166 OK
     Datafile            041718029
     Method              GEBIOTA2017
30) Sample        30  40157830011,,17685,BIOTA
     Datafile            041718030
     Method              GEBIOTA2017
31) Sample        31  40157830012,,17685,BIOTA
     Datafile            041718031
     Method              GEBIOTA2017
32) Sample        32  40157830019,,17685,BIOTA RS
     Datafile            041718032
     Method              GEBIOTA2017
33) Sample        33  1221-CCV,185538:1,17498,AR122 OK
     Datafile            041718033
     Method              GEBIOTA2017
34) Sample        34  1221-CCV,185538:1,17498,AR122 OK
     Datafile            041718034
     Method              GEBIOTA2017
```

GCSV Batch 17685 Screened 40GCSI 04/17/18

Last Modified: Tue Apr 17 10:57:32 2018 Page: 2

BLM 4/18/18

Continued on Page —

Read and Understood By

Bryan Meagher 4/18/18 Signed Date

Jim O'Connor 4-18-18 Signed Date

```
Sequence Name: C:\msdchem\1\sequence\041818.s
      Comment:
     Operator: BLM
    Data Path: C:\MSDCHEM\1\DATA\041818\
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           041818001
    Method             GEBIOTA2017
 2) Sample          2  HEXANE
    Datafile           041818002
    Method             GEBIOTA2017
 3) Sample          3  HEXANE
    Datafile           041818003
    Method             GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 ok
    Datafile           041818004
    Method             GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 ok
    Datafile           041818005
    Method             GEBIOTA2017
 6) Sample          6  40157492020 x2,,17685,BIOTA
    Datafile           041818006
    Method             GEBIOTA2017
 7) Sample          7  40157698003 x3,,17685,BIOTA
    Datafile           041818007
    Method             GEBIOTA2017
 8) Sample          8  40157830019 x2,,17685,BIOTA
    Datafile           041818008
    Method             GEBIOTA2017
 9) Sample          9  1674422,,17695,BIOTA
    Datafile           041818009
    Method             GEBIOTA2017
10) Sample         10  1674423,,17695,BIOTA
    Datafile           041818010
    Method             GEBIOTA2017
11) Sample         11  40157489007 x5,,17695,BIOTA
    Datafile           041818011
    Method             GEBIOTA2017
12) Sample         12  40157830016 x3,,17695,BIOTA
    Datafile           041818012
    Method             GEBIOTA2017
13) Sample         13  1674424 x3,,17695,BIOTA
    Datafile           041818013
    Method             GEBIOTA2017
14) Sample         14  40157830017 x4,,17695,BIOTA
    Datafile           041818014
    Method             GEBIOTA2017
15) Sample         15  40157830018 x5,,17695,BIOTA
    Datafile           041818015
    Method             GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 ok
    Datafile           041818016
    Method             GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 ok
    Datafile           041818017
    Method             GEBIOTA2017
18) Sample         18  40157932001,,17695,BIOTA
    Datafile           041818018
    Method             GEBIOTA2017
19) Sample         19  40157932002,,17695,BIOTA
    Datafile           041818019

  Last Modified: Wed Apr 18 12:24:47 2018                Page:  1
```

BLM 4/19/18

Continued on Page 59

Read and Understood By

Bryan Mayell — Signed — 4/19/18 — Date

Jim O'Connor — Signed — 4-19-18 — Date

```
      Method                GEBIOTA2017
20) Sample          20  40157932003,,17695,BIOTA
     Datafile           041818020
     Method             GEBIOTA2017
21) Sample          21  1674425,,17695,BIOTA RS
     Datafile           041818021
     Method             GEBIOTA2017
22) Sample          22  1674426,,17695,BIOTA RS
     Datafile           041818022
     Method             GEBIOTA2017
23) Sample          23  40157932004,,17695,BIOTA
     Datafile           041818023
     Method             GEBIOTA2017
24) Sample          24  40157932005,,17695,BIOTA
     Datafile           041818024
     Method             GEBIOTA2017
25) Sample          25  40157932006,,17695,BIOTA
     Datafile           041818025
     Method             GEBIOTA2017
26) Sample          26  40157932007,,17695,BIOTA
     Datafile           041818026
     Method             GEBIOTA2017
27) Sample          27  40157932008,,17695,BIOTA
     Datafile           041818027
     Method             GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 OK
     Datafile           041818028
     Method             GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 OK
     Datafile           041818029
     Method             GEBIOTA2017
30) Sample          30  40157932009,,17695,BIOTA
     Datafile           041818030
     Method             GEBIOTA2017
31) Sample          31  40157932010,,17695,BIOTA
     Datafile           041818031
     Method             GEBIOTA2017
32) Sample          32  40157932011,,17695,BIOTA
     Datafile           041818032
     Method             GEBIOTA2017
33) Sample          33  1254-CCV,185554:1,17498,AR125 OK
     Datafile           041818033
     Method             GEBIOTA2017
34) Sample          34  1254-CCV,185554:1,17498,AR125 OK
     Datafile           041818034
     Method             GEBIOTA2017
```

GCSV Batch 17695 HBN: 286371 Screened
40GCSI 4/18/18

Last Modified: Wed Apr 18 12:24:47 2018 Page: 2

BLM 4/19/18

Continued on Page —

Read and Understood By

Signed 4/19/18 Date Signed 4-19-18 Date

Standard Log Report

Standards Log Information for Standard #193893

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	04/12/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA - unbaked drum

Compound Name and Concentration for Standard #193893

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 #193857

WORKING STANDARD

Created By:	ETB	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/12/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	10/12/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #193857

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

Composed of Information for Standard #193857

Composed of Standard Seq	Volume	Units
192551	2000	mL
190945	2000	mL

Standard Log Report

Standards Log Information for Standard #193584

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/10/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By ETB

Compound Name and Concentration for Standard #193584

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

Composed of Information for Standard #193584

Composed of Standard Seq	Volume	Units
192551	2000	mL
190944	2000	mL

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 #193230

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	1000 mL	**Lot ID:**	GCSV
Create Date:	04/05/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	10/05/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	8081-SS

Notes:

Pest/PCB Surrogate Spike 40GCSC.i\040618SurrCHK.b\A406068 TCMX-91.42% DCB-91.66%

Compound Name and Concentration for Standard #193230

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Decachlorobiphenyl (S)	2 ug/mL
Tetrachloro-m-xylene (S)	2 ug/mL		

Composed of Information for Standard #193230

Composed of Standard Seq	Volume	Units
190942	999	mL
172034	1	mL

Standard Log Report

Standards Log Information for Standard #193164

STOCK STANDARD

Created By:	DLH	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/05/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	10/02/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/5/18

Compound Name and Concentration for Standard #193164

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 #192551

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405817
Create Date:	03/28/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	03/22/2019	**Manufacturer Lot ID:**	0000191733	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 3/28/18

Compound Name and Concentration for Standard #192551

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #192096

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	03/22/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/22/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	AR1242-SPK

Notes:

Ar1242 Spike @20ug/mL 40GCS9.i\032318spk.b\A323018 100% Recovery

Compound Name and Concentration for Standard #192096

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	PCB-1242 (Aroclor 1242)	20 ug/mL

Composed of Information for Standard #192096

Composed of Standard Seq	Volume	Units
179368	196	mL
81343	1	mL
81342	1	mL
81341	1	mL
81340	1	mL

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

Standard Log Report

Standards Log Information for Standard #190945

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 #190945

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 #190944

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 #190944

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 #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 #190942

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	03/08/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190942

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #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 #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

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

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL1

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188135

Composed of Standard Seq	Volume	Units
188129	100	uL
185530	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL1

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188134

Composed of Standard Seq	Volume	Units
188129	100	uL
185529	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL1

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.1 ug/mL	PCB-1242 (Aroclor 1242)	.1 ug/mL
PCB-1242 (Aroclor 1242)-6	.1 ug/mL	PCB-1242 (Aroclor 1242)-7	.1 ug/mL
PCB-1242 (Aroclor 1242)-8	.1 ug/mL	PCB-1242 (Aroclor 1242)-9	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188132

Composed of Standard Seq	Volume	Units
188129	100	uL
185528	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #188129

Composed of Standard Seq	Volume	Units
185958	1	mL
184640	19	mL

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405706
Create Date:	01/12/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	01/11/2020	**Manufacturer Lot ID:**	174228	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

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

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

Created By:	BLM	**Volume of Standard:**	1 mL	**Lot ID:**	405693
Create Date:	01/02/2018	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	11/30/2023	**Manufacturer Lot ID:**	A0130424	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-ICV

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185565

Composed of Standard Seq	Volume	Units
185537	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-ICV

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185564

Composed of Standard Seq	Volume	Units
185536	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-ICV

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185563

Composed of Standard Seq	Volume	Units
185535	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-ICV

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185562

Composed of Standard Seq	Volume	Units
185534	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL5

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	1 ug/mL	PCB-1260 (Aroclor 1260)	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185561

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL4

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.8 ug/mL	PCB-1260 (Aroclor 1260)	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185560

Composed of Standard Seq	Volume	Units
185533	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

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

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL3

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185554

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL2

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185553

Composed of Standard Seq	Volume	Units
185530	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL5

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185551

Composed of Standard Seq	Volume	Units
185529	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL4

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185550

Composed of Standard Seq	Volume	Units
185529	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL3

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185549

Composed of Standard Seq	Volume	Units
185529	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL2

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185548

Composed of Standard Seq	Volume	Units
185529	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL5

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	1 ug/mL	PCB-1242 (Aroclor 1242)	1 ug/mL
PCB-1242 (Aroclor 1242)-6	1 ug/mL	PCB-1242 (Aroclor 1242)-7	1 ug/mL
PCB-1242 (Aroclor 1242)-8	1 ug/mL	PCB-1242 (Aroclor 1242)-9	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185546

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL4

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.8 ug/mL	PCB-1242 (Aroclor 1242)	.8 ug/mL
PCB-1242 (Aroclor 1242)-6	.8 ug/mL	PCB-1242 (Aroclor 1242)-7	.8 ug/mL
PCB-1242 (Aroclor 1242)-8	.8 ug/mL	PCB-1242 (Aroclor 1242)-9	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185545

Composed of Standard Seq	Volume	Units
185528	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL3

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	PCB-1242 (Aroclor 1242)	.5 ug/mL
PCB-1242 (Aroclor 1242)-6	.5 ug/mL	PCB-1242 (Aroclor 1242)-7	.5 ug/mL
PCB-1242 (Aroclor 1242)-8	.5 ug/mL	PCB-1242 (Aroclor 1242)-9	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185544

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL2

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.2 ug/mL	PCB-1242 (Aroclor 1242)	.2 ug/mL
PCB-1242 (Aroclor 1242)-6	.2 ug/mL	PCB-1242 (Aroclor 1242)-7	.2 ug/mL
PCB-1242 (Aroclor 1242)-8	.2 ug/mL	PCB-1242 (Aroclor 1242)-9	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185543

Composed of Standard Seq	Volume	Units
185528	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-CAL3

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1232 (Aroclor 1232)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185539

Composed of Standard Seq	Volume	Units
185527	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL3

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	PCB-1221 (Aroclor 1221)-1	.5 ug/mL
PCB-1221 (Aroclor 1221)-2	.5 ug/mL	PCB-1221 (Aroclor 1221)-3	.5 ug/mL
PCB-1221 (Aroclor 1221)-4	.5 ug/mL	PCB-1232 (Aroclor 1232)-5	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185538

Composed of Standard Seq	Volume	Units
185526	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185537

Composed of Standard Seq	Volume	Units
184640	9	mL
175600	1	mL

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

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

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		

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

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Rev 0 **Page**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	226760	Ambient or Less	Hexane	15-Apr-2024	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.3P	1003 +/- 10.66	mg/L

403271
REC.04/22/14 BY CA
Exp. __/__/__ By -
Open __/__/__ By

Certified By: Amanda Ross

Amanda Ross

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

405341
REC. 06/23/17 BY MRN
Exp. --/--/-- By --

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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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 2781200)		+/- 31.9602	µg/mL	Unstressed
	Purity ----%			+/- 41.7506	µg/mL	Stressed

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

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

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

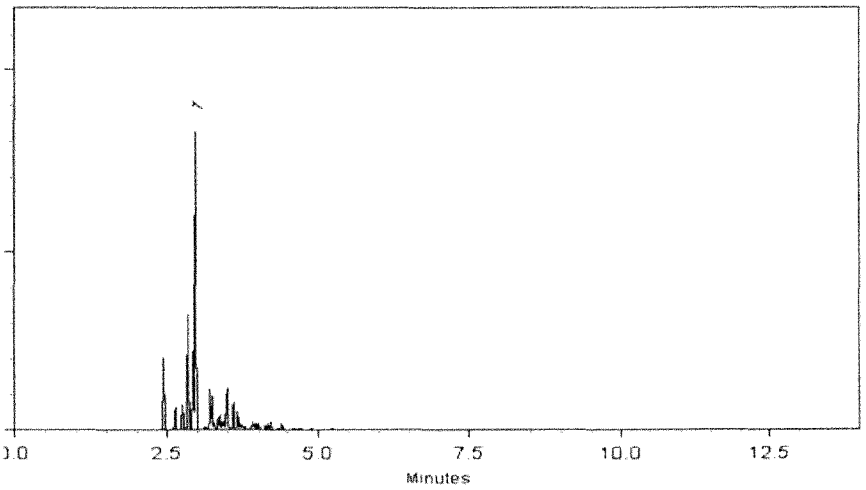
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

Date Mixed: 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

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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)

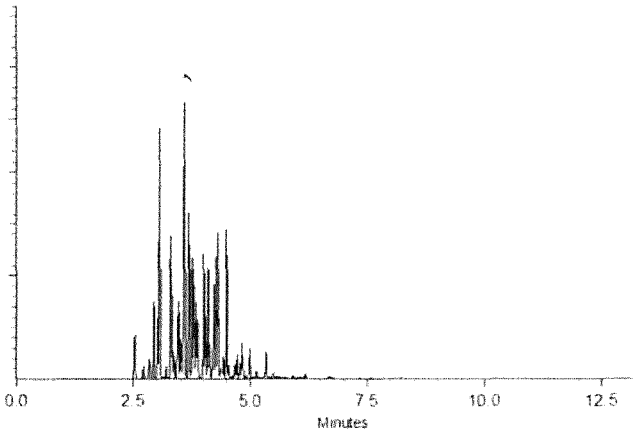
Carrier Gas:
helium-constant pressure 20 psi.

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)

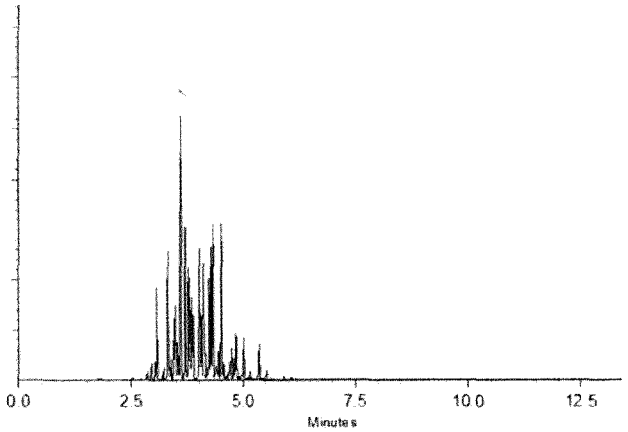
Carrier Gas:
helium-constant pressure 20 psi.

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)

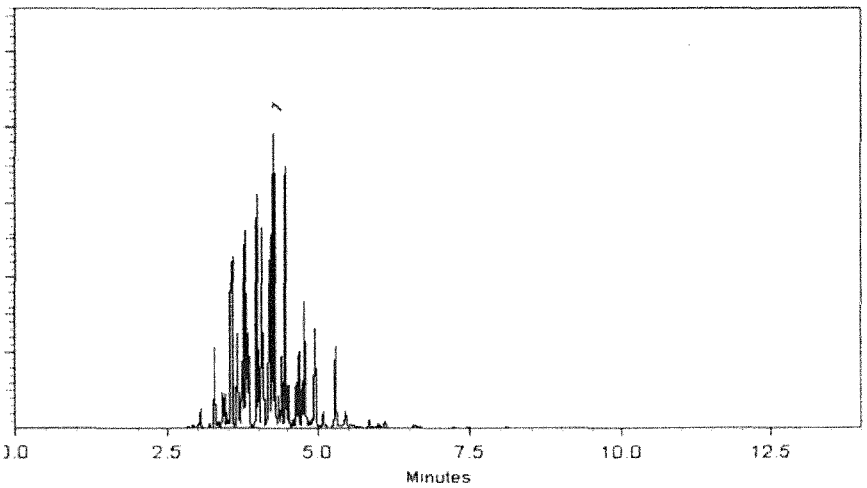
Carrier Gas:
helium-constant pressure 20 psi.

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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254		1,005.6 µg/mL	+/- 5.9014	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8715	µg/mL	Unstressed
	Purity ----%			+/- 41.6347	µg/mL	Stressed

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

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __

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

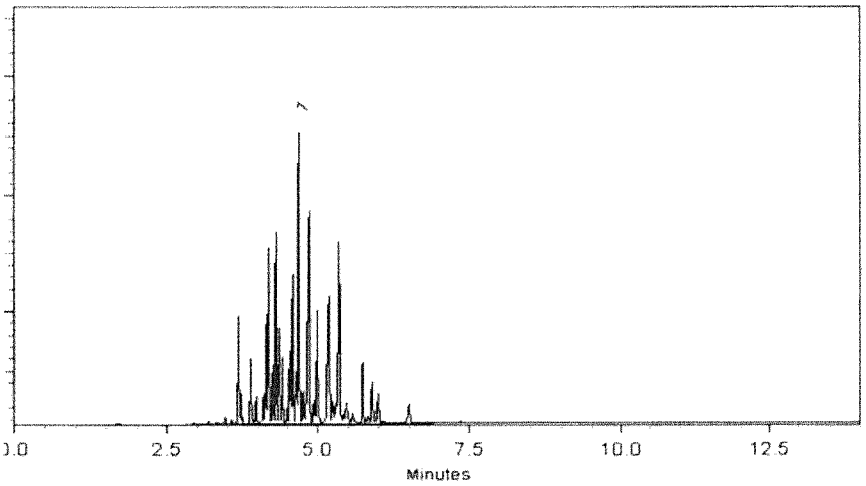
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,002.0 µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot W-125-04)		+/- 31.7498	µg/mL	Unstressed
	Purity ----%			+/- 41.4799	µg/mL	Stressed
2	Aroclor 1260		1,002.2 µg/mL	+/- 5.8403	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot W-129-06)		+/- 31.7561	µg/mL	Unstressed
	Purity ----%			+/- 41.4881	µg/mL	Stressed

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

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

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

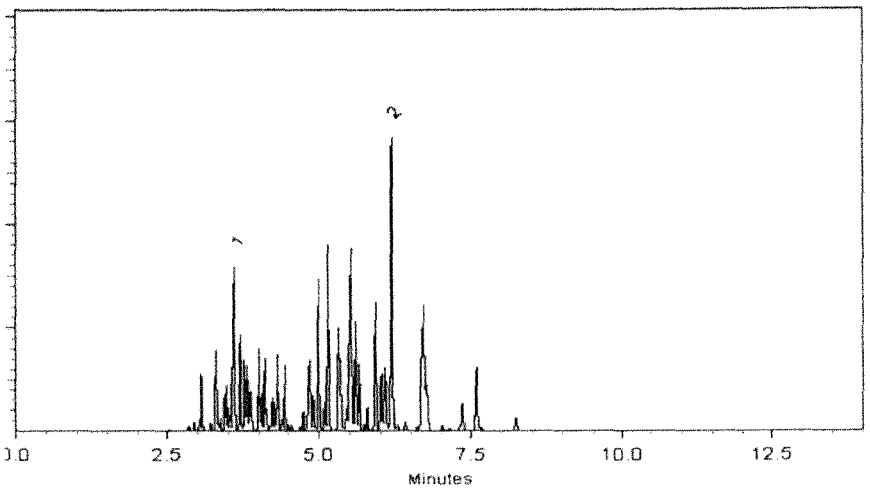
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

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

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	302979	Ambient or Less	Hexane	20-Mar-2027	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1010 +/- 7.38	mg/L

405384
REC.07/13/17 BY BDS
Exp. __/__/__ By --
Open / / By

Certified By: _____
Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030276-15	296389	≤ Ambient	Hexane	14-Jan-2020	Aroclor 1248 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1248	12672-29-6	100	276.3.1P	1008 +/- 4.47	mg/L

405385
REC. 07/13/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Katrina Emelianoff

Manufacture Date 9-Jan-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

o2si smart solutions®

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Phone: 866.272.0932
Fax: 866.509.5146
www.o2si.com

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

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 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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Date Received: _____

Certificate of Analysis

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.

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** 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)

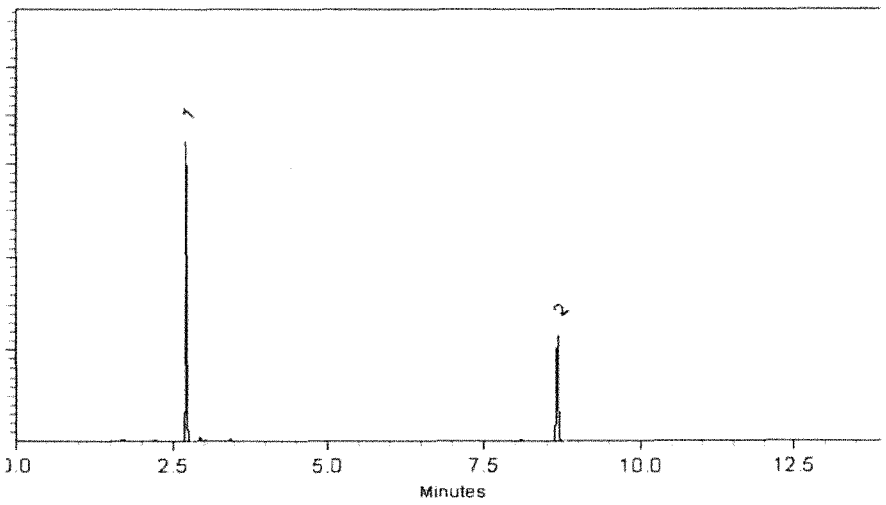
Carrier Gas:
helium-constant pressure 20 psi.

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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Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.31	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.97	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0481	AU
UV Absorbance @ 350 nm		0.010	0.0014	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

o2si smart solutions®

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ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
Gen. / / By

J.T.Baker® | avantor™

Material No.: 3375-09
Batch No.: 0000177456
Manufactured Date: 2017/05/23
Retest Date: 2022/05/22

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (Na_2SO_4)	>= 99.0 %	99.2
ACS - Insoluble Matter	<= 0.01 %	< 0.01
ACS - Loss on Ignition	<= 0.5 %	0.1
ACS - pH of 5% Solution at 25°C	5.2 - 9.2	6.0
ACS - Chloride (Cl)	<= 0.001 %	< 0.001
ACS - Phosphate (PO_4)	<= 0.001 %	< 0.001
ACS - Calcium (Ca)	<= 0.01 %	< 0.01
ACS - Iron (Fe)	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.005 %	< 0.005
ACS - Potassium (K)	<= 0.01 %	< 0.01
ACS - Extraction-Concentration Suitability *	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Nitrogen Compounds (as N)	<= 5 ppm	< 5

For Laboratory, Research or Manufacturing Use
* Result obtained on a sample dried at 400°C for one hour (ACS method)

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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

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

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

J.T.Baker | avantor

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

Certificate of Analysis

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0130424

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : November 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

405693
REC.01/02/18 BY BLM
Exp: --/--/-- By --
Open / / By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.2 µg/mL	+/- 1.1725	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3751	µg/mL	Unstressed
	Purity 98%			+/- 8.3288	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3848	µg/mL	Unstressed
	Purity 99%			+/- 8.3415	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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

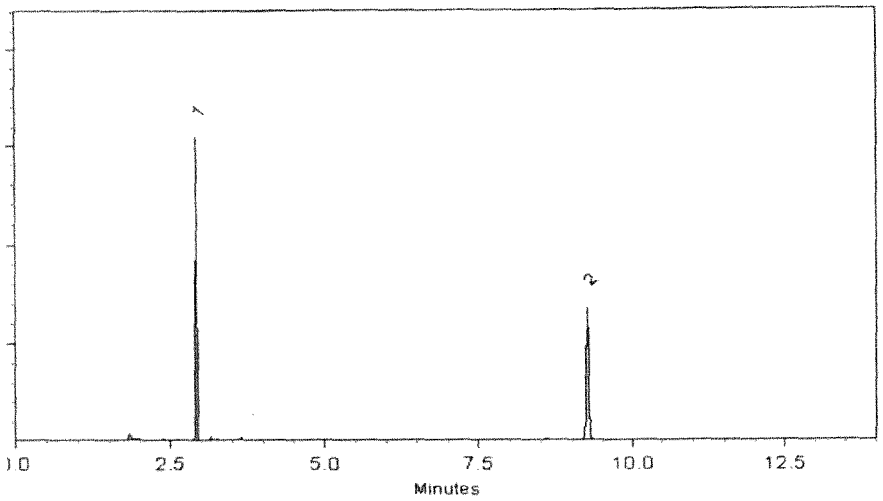
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

Date Mixed: 31-Aug-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Sep-2017

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

o2si smart solutions®

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

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Charleston, South Carolina 29407
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Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 1 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
020986-02 -02-SS	297165	≤ -10 °C	P/T Methanol	16-Jan-2020	Dichlorofluoromethane (Freon 21) Gas Solution, Second Source, 2000 mg/L, 2 x 0.6 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
dichlorofluoromethane (Freon 21)	75-43-4	99	986.158.2.2.1S	2008 +/- 20.85 mg/L

405766
REC. 02/26/18 BY SMT
Exp. --/--/-- By --
Open / / By

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system that is accredited to ISO 17034 and ISO/IEC 17025.

Second Source standards are prepared according to NELAC

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

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

J.T.Baker | avantor

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

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

Certificate of Analysis

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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SAMPLE NO.

TD4-170615-01-SMB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.41		%	1	04/17/2018 06:57

SAMPLE NO.

ND5-170615-01-SMB-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.33		%	1	04/17/2018 06:57

SAMPLE NO.

ND5-170615-01-SMB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.36		%	1	04/17/2018 06:58

SAMPLE NO.

ND5-170615-01-SMB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.50		%	1	04/17/2018 06:58

SAMPLE NO.

ND5-170615-01-SMB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.48		%	1	04/17/2018 06:58

SAMPLE NO.

ND5-170615-01-SMB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.52		%	1	04/11/2018 07:18

SAMPLE NO.

ND5-170615-01-SMB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.30		%	1	04/11/2018 07:18

SAMPLE NO.

ND5-170615-01-LMB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.21		%	1	04/13/2018 06:30

SAMPLE NO.

ND5-170615-01-LMB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.50		%	1	04/13/2018 06:30

SAMPLE NO.

ND5-170615-01-LMB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.64		%	1	04/13/2018 06:30

SAMPLE NO.

ND5-170615-01-LMB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.26		%	1	04/13/2018 06:30

SAMPLE NO.

ND3-170615-01-SMB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.25		%	1	04/11/2018 07:19

SAMPLE NO.

ND3-170615-01-SMB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.18		%	1	04/11/2018 07:19

SAMPLE NO.

ND3-170615-01-SMB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.48		%	1	04/11/2018 07:19

SAMPLE NO.

ND3-170615-01-SMB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.37		%	1	04/11/2018 07:19

SAMPLE NO.

ND3-170615-01-SMB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157698016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.40		%	1	04/11/2018 07:20

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 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

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 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	1673137	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 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	1674431	C
Lipid									<0.030	U

SAMPLE NO.

1671713DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 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

SAMPLE NO.

1673139DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.32	0.30	9

SAMPLE NO.

1673141DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.26	0.20	28

SAMPLE NO.

1674434DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.36	0.29	22

SAMPLE NO.

1674435DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.41	0.36	10

SAMPLE NO.

1674436DUP

FORM VI INORGANIC-3
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157698 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.45	0.47	4

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	

Prep Log Report

Batch Information: OEXT 285997 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	05/03/2018 10:33				

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	**1673137**	Y	-0.02000	04/13/2018 06:30:57		10	5	1	0.9297	0.9293	M	1672269
LIPID	BLANK	**1673138**	Y	-0.05500	04/13/2018 06:30:57		10	5	1	0.9258	0.9247	M	1672270
LIPID	PS	**40157492006**	Y	0.3362	04/13/2018 06:30:57		9.9656	5	1	0.928	0.9347	M	
LIPID	PS	**40157492007**	Y	0.3954	04/13/2018 06:30:57		9.9904	5	1	0.9311	0.939	M	
LIPID	PS	**40157492008**	Y	0.3350	04/13/2018 06:30:57		10.0007	5	1	0.9292	0.9359	M	
LIPID	PS	**40157492009**	Y	0.2840	04/13/2018 06:30:57		10.0355	5	1	0.9237	0.9294	M	
LIPID	PS	**40157492010**	Y	0.9355	04/13/2018 06:30:57		9.9951	5	1	0.9274	0.9461	M	
LIPID	PS	**40157492011**	Y	0.9935	04/13/2018 06:30:57		9.9652	5	1	0.9279	0.9477	M	
LIPID	PS	**40157492016**	Y	0.3250	04/13/2018 06:30:57		9.9995	5	1	0.9298	0.9363	M	
LIPID	DUP	**1673139**	Y	0.2958	04/13/2018 06:30:57		9.9727	5	1	0.9281	0.934	M	1672271
LIPID	PS	**40157698008**	Y	0.2106	04/13/2018 06:30:57		9.9712	5	1	0.9286	0.9328	M	
LIPID	PS	**40157698009**	Y	0.4955	04/13/2018 06:30:57		9.9904	5	1	0.9238	0.9337	M	
LIPID	PS	**40157698010**	Y	0.6420	04/13/2018 06:30:57		9.9685	5	1	0.9304	0.9432	M	
LIPID	RQS	**40157698011**	Y	0.2642	04/13/2018 06:30:57		10.0296	5	1	0.9298	0.9351	M	
LIPID	DUP	**1673141**	Y	0.1995	04/13/2018 06:30:57		10.0262	5	1	0.933	0.937	M	1672273
LIPID	PS	**40157703001**	Y	0.4139	04/13/2018 06:30:57		10.0274	5	1	0.9301	0.9384	M	
LIPID	PS	**40157703005**	Y	0.8166	04/13/2018 06:30:57		9.9805	5	1	0.9286	0.9449	M	
LIPID	PS	**40157830013**	Y	0.9052	04/13/2018 06:30:57		9.9973	5	1	0.9221	0.9402	M	
LIPID	MS	**1683130**	Y	0.2548	04/13/2018 06:30:57		10.0077	5	1	.9262	0.9313	M	

Prep Log Report

Batch Information: OEXT 286205 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	ETB	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/03/2018 10:36				

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	**1674431**	Y	0.01000	04/17/2018 06:56:14		10	5	1	0.9284	0.9286	M	1673128
LIPID	BLANK	**1674432**	Y	-0.01000	04/17/2018 06:56:24		10	5	1	0.9257	0.9255	M	1673129
LIPID	PS	**40157492018**	Y	1.099	04/17/2018 06:56:34		10.0099	5	1	0.9262	0.9482	M	
LIPID	RQS	**40157492019**	Y	0.3621	04/17/2018 06:56:46		10.218	5	1	0.9234	0.9308	M	
LIPID	DUP	**1674434**	Y	0.2893	04/17/2018 06:57:09		10.0257	5	1	0.9276	0.9334	M	1673131
LIPID	PS	**40157492020**	Y	1.426	04/17/2018 06:57:20		9.9954	5	1	0.9298	0.9583	M	
LIPID	PS	**40157698001**	Y	0.4053	04/17/2018 06:57:33		9.9916	5	1	0.9266	0.9347	M	
LIPID	DUP	**1674435**	Y	0.3649	04/17/2018 06:57:43		10.0019	5	1	0.9252	0.9325	M	1673132
LIPID	PS	**40157698002**	Y	0.3348	04/17/2018 06:57:54		10.005	5	1	0.9277	0.9344	M	
LIPID	PS	**40157698003**	Y	0.3594	04/17/2018 06:58:05		10.0159	5	1	0.9278	0.935	M	
LIPID	PS	**40157698004**	Y	0.4958	04/17/2018 06:58:18		9.9832	5	1	0.9263	0.9362	M	
LIPID	PS	**40157698005**	Y	0.4750	04/17/2018 06:58:30		10	5	1	0.9262	0.9357	M	
LIPID	RQS	**40157830003**	Y	0.4534	04/17/2018 06:58:42		10.0351	5	1	0.9257	0.9348	M	
LIPID	DUP	**1674436**	Y	0.4712	04/17/2018 06:59:08		9.9747	5	1	0.9263	0.9357	M	1673133
LIPID	PS	**40157830008**	Y	1.394	04/17/2018 06:59:19		9.972	5	1	0.9267	0.9545	M	
LIPID	PS	**40157830009**	Y	1.950	04/17/2018 06:59:29		9.9763	5	1	0.9278	0.9667	M	
LIPID	PS	**40157830010**	Y	0.4802	04/17/2018 06:59:41		9.9958	5	1	0.9261	0.9357	M	
LIPID	PS	**40157830011**	Y	0.3745	04/17/2018 06:59:52		10.0128	5	1	0.9287	0.9362	M	
LIPID	PS	**40157830012**	Y	0.4148	04/17/2018 07:00:02		10.0055	5	1	0.9279	0.9362	M	

Prep Log Report

40157698

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	**40157830019**	Y	1.017	04/17/2018 07:00:13		10.0288	5	1	0.9275	0.9479	M	
LIPID	MS	**1683145**	Y	0.3102	04/17/2018 07:00:13		9.9947	5	1	.9323	0.9385	M	1673130

40157698

Client Name: GE
Project #: 40157698
Sample Type: Fish
Date/Time Removed to Thaw: 04-02-18
Date/Time Prepped: 04-03-18
Prepped by: CWN + JL + RM
Location Thawed: 40FRG21 / Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
1	A	F	Y	661.7	Y	M	140.8	Left / Both	Y	9AG	1	Y	139.2	C	
2	A	F	Y	317.3	Y	M	71.5	Left / Both	Y	9AG	1	Y	69.9	C	
3	A	F	Y	376.3	Y	F	84.7	Left / Both	Y	9AG	1	Y	83.6	C	
4	A	F	Y	431.8	Y	M	100.8	Left / Both	Y	9AG	1	Y	97.4	C	
5	A	F	Y	488.5	Y	M	111.0	Left / Both	Y	9AG	1	Y	106.3	C	
6	A	F	Y	721.6	Y	M	139.1	Left / Both	Y	9AG	1	Y	133.1	C	
7	A	F	Y	333.5	Y	M	73.5	Left / Both	Y	9AG	1	Y	72.5	C	
8	A	F	Y	392.4	Y	F	85.0	Left / Both	Y	9AG	1	Y	79.6	C	
9	A	F	Y	427.8	Y	F	90.2	Left / Both	Y	9AG	1	Y	88.3	C	
10	A	F	Y	511.9	Y	M	113.8	Left / Both	Y	9AG	1	Y	112.5	C	
11	A	F	Y	1057.0	Y	F	198.0	Left / Both	Y	9AG	1	Y	194.4	C	
12	A	F	Y	337.0	Y	F	70.5	Left / Both	Y	9AG	1	Y	69.8	C	
13	A	F	Y	376.0	Y	F	83.1	Left / Both	Y	9AG	1	Y	81.8	C	
14	A	F	Y	647.3	Y	F	131.2	Left / Both	Y	9AG	1	Y	129.2	C	
15	A	F	Y	341.2	Y	F	72.2	Left / Both	Y	9AG	1	Y	69.3	C	
16	A	F	Y	467.9	Y	M	104.4	Left / Both	Y	9AG	1	Y	102.5	C	
								Left / Both							
								Left / Both							
					CWN	04-03-18		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-8-036-D4AB
32AG	32 oz Amber Glass	

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

Date 4/27/18