Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40157830

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

May 07, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 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.: 40157830

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.: 40157830

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40157830001	**TD5-170619-01-BB-13**	Tissue	06/19/17 13:39	10/03/17 14:25
40157830002	**TD5-170619-01-BB-12**	Tissue	06/19/17 13:37	10/03/17 14:25
40157830003	**TD5-170619-01-BB-11**	Tissue	06/19/17 13:35	10/03/17 14:25
40157830004	**TD5-170619-01-BB-10**	Tissue	06/19/17 13:33	10/03/17 14:25
40157830005	**TD4-170619-01-SMB-08**	Tissue	06/19/17 13:45	10/03/17 14:25
40157830006	**TD4-170619-01-SMB-07**	Tissue	06/19/17 13:43	10/03/17 14:25
40157830007	**TD4-170619-01-SMB-06**	Tissue	06/19/17 13:41	10/03/17 14:25
40157830008	**TD2-170619-01-BB-09**	Tissue	06/19/17 13:53	10/03/17 14:25
40157830009	**TD2-170619-01-BB-08**	Tissue	06/19/17 13:51	10/03/17 14:25
40157830010	**TD2-170619-01-BB-07**	Tissue	06/19/17 13:50	10/03/17 14:25
40157830011	**TD2-170619-01-BB-06**	Tissue	06/19/17 13:48	10/03/17 14:25
40157830012	**TD2-170619-01-BB-05**	Tissue	06/19/17 13:46	10/03/17 14:25
40157830013	**TD1-170619-01-YB-03**	Tissue	06/19/17 14:10	10/03/17 14:25
40157830014	**TD1-170619-01-SMB-10**	Tissue	06/19/17 14:08	10/03/17 14:25
40157830015	**TD1-170619-01-SMB-09**	Tissue	06/19/17 14:06	10/03/17 14:25
40157830016	**TD1-170619-01-SMB-08**	Tissue	06/19/17 14:04	10/03/17 14:25
40157830017	**TD1-170619-01-SMB-07**	Tissue	06/19/17 14:03	10/03/17 14:25
40157830018	**TD1-170619-01-SMB-06**	Tissue	06/19/17 14:02	10/03/17 14:25
40157830019	**TD1-170619-01-BB-04**	Tissue	06/19/17 14:09	10/03/17 14:25

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40157830001	TD5-170619-01-BB-13	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157830002	TD5-170619-01-BB-12	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157830003	TD5-170619-01-BB-11	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830004	TD5-170619-01-BB-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157830005	TD4-170619-01-SMB-08	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830006	TD4-170619-01-SMB-07	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830007	TD4-170619-01-SMB-06	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830008	TD2-170619-01-BB-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830009	TD2-170619-01-BB-08	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830010	TD2-170619-01-BB-07	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830011	TD2-170619-01-BB-06	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830012	TD2-170619-01-BB-05	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830013	TD1-170619-01-YB-03	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157830014	**TD1-170619-01-SMB-10**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830015	**TD1-170619-01-SMB-09**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830016	**TD1-170619-01-SMB-08**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830017	**TD1-170619-01-SMB-07**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830018	**TD1-170619-01-SMB-06**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40157830019	**TD1-170619-01-BB-04**	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.: 40157830

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 07, 2018

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

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

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

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

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

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

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

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

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

QC Batch: 285341

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157703018

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

- MS (Lab ID: 1669844)
  - PCB-1242 (Aroclor 1242)

QC Batch: 285569

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

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

- MS (Lab ID: 1671101)
  - PCB-1242 (Aroclor 1242)

QC Batch: 286202

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157932003

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

- MS (Lab ID: 1674425)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 07, 2018

QC Batch: 286202

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157932003

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

- PCB-1242 (Aroclor 1242)

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

Additional Comments:

Analyte Comments:

QC Batch: 285844

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

- TD1-170619-01-YB-03 (Lab ID: 40157830013)
  - PCB-1016 (Aroclor 1016)

QC Batch: 285995

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

- TD1-170619-01-BB-04 (Lab ID: 40157830019)
  - PCB-1016 (Aroclor 1016)

QC Batch: 286202

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

- DUP (Lab ID: 1674426)
  - PCB-1016 (Aroclor 1016)
- MS (Lab ID: 1674425)
  - PCB-1016 (Aroclor 1016)

2q: The duplicate acceptance criteria for sample results when at least one result is <5x the reporting limit is the difference between the results is <2x the reporting limit. The sample and duplicate precision do not exceed project criteria.

- DUP (Lab ID: 1674426)
  - PCB-1248 (Aroclor 1248)
  - PCB-1254 (Aroclor 1254)
  - PCB-1260 (Aroclor 1260)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Method: **Pace Gender Typing**
Description: Fish Gender Typing
Client: General Electric
Date: May 07, 2018

General Information:
19 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.: 40157830

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 07, 2018

General Information:
19 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.: 40157830

Sample: TD5-170619-01-BB-13 **Lab ID: 40157830001** Collected: 06/19/17 13:39 Received: 10/03/17 14:25 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	04/06/18 07:14	04/10/18 20:58	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 20:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 20:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 20:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**463**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 20:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**293**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 20:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**78.0J**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 20:58	11096-82-5	
PCB, Total	**834**	ug/kg	100	22.8	2	04/06/18 07:14	04/10/18 20:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	60-140		2	04/06/18 07:14	04/10/18 20:58	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		2	04/06/18 07:14	04/10/18 20:58	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/02/18 14:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.54**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD5-170619-01-BB-12 **Lab ID: 40157830002** Collected: 06/19/17 13:37 Received: 10/03/17 14:25 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	04/06/18 07:14	04/10/18 21:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	04/06/18 07:14	04/10/18 21:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/06/18 07:14	04/10/18 21:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/06/18 07:14	04/10/18 21:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**337**	ug/kg	50.0	11.4	1	04/06/18 07:14	04/10/18 21:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**187**	ug/kg	50.0	11.4	1	04/06/18 07:14	04/10/18 21:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**40.9J**	ug/kg	50.0	11.4	1	04/06/18 07:14	04/10/18 21:14	11096-82-5	
PCB, Total	**564**	ug/kg	50.0	11.4	1	04/06/18 07:14	04/10/18 21:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		1	04/06/18 07:14	04/10/18 21:14	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	04/06/18 07:14	04/10/18 21:14	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/02/18 14:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.86**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD5-170619-01-BB-11 **Lab ID: 40157830003** Collected: 06/19/17 13:35 Received: 10/03/17 14:25 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.1**	ug/kg	149	34.1	3	04/13/18 07:19	04/17/18 16:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.1**	ug/kg	149	34.1	3	04/13/18 07:19	04/17/18 16:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.1**	ug/kg	149	34.1	3	04/13/18 07:19	04/17/18 16:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.1**	ug/kg	149	34.1	3	04/13/18 07:19	04/17/18 16:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**605**	ug/kg	149	34.1	3	04/13/18 07:19	04/17/18 16:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**440**	ug/kg	149	34.1	3	04/13/18 07:19	04/17/18 16:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**145J**	ug/kg	149	34.1	3	04/13/18 07:19	04/17/18 16:56	11096-82-5	
PCB, Total	**1190**	ug/kg	149	34.1	3	04/13/18 07:19	04/17/18 16:56	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	60-140		3	04/13/18 07:19	04/17/18 16:56	877-09-8	
Decachlorobiphenyl (S)	104	%	60-140		3	04/13/18 07:19	04/17/18 16:56	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/02/18 14:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.45**	%	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.: 40157830

Sample: TD5-170619-01-BB-10 **Lab ID: 40157830004** Collected: 06/19/17 13:33 Received: 10/03/17 14:25 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	04/06/18 07:14	04/10/18 21:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.6**	ug/kg	200	45.6	4	04/06/18 07:14	04/10/18 21:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.6**	ug/kg	200	45.6	4	04/06/18 07:14	04/10/18 21:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.6**	ug/kg	200	45.6	4	04/06/18 07:14	04/10/18 21:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**736**	ug/kg	200	45.6	4	04/06/18 07:14	04/10/18 21:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**528**	ug/kg	200	45.6	4	04/06/18 07:14	04/10/18 21:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**198J**	ug/kg	200	45.6	4	04/06/18 07:14	04/10/18 21:30	11096-82-5	
PCB, Total	**1460**	ug/kg	200	45.6	4	04/06/18 07:14	04/10/18 21:30	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	60-140		4	04/06/18 07:14	04/10/18 21:30	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		4	04/06/18 07:14	04/10/18 21:30	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/02/18 14:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.33**	%	0.030	0.030	1		04/09/18 06:25		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD4-170619-01-SMB-08 **Lab ID: 40157830005** Collected: 06/19/17 13:45 Received: 10/03/17 14:25 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	99.9	22.8	2	04/10/18 07:13	04/11/18 19:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**49.4J**	ug/kg	99.9	22.8	2	04/10/18 07:13	04/11/18 19:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.9	22.8	2	04/10/18 07:13	04/11/18 19:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.9	22.8	2	04/10/18 07:13	04/11/18 19:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**426**	ug/kg	99.9	22.8	2	04/10/18 07:13	04/11/18 19:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**371**	ug/kg	99.9	22.8	2	04/10/18 07:13	04/11/18 19:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**163**	ug/kg	99.9	22.8	2	04/10/18 07:13	04/11/18 19:17	11096-82-5	
PCB, Total	**1010**	ug/kg	99.9	22.8	2	04/10/18 07:13	04/11/18 19:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		2	04/10/18 07:13	04/11/18 19:17	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		2	04/10/18 07:13	04/11/18 19:17	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/02/18 14:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		04/11/18 07:20		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD4-170619-01-SMB-07 **Lab ID: 40157830006** Collected: 06/19/17 13:43 Received: 10/03/17 14:25 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	04/10/18 07:13	04/11/18 19:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**35.0J**	ug/kg	49.9	11.4	1	04/10/18 07:13	04/11/18 19:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/10/18 07:13	04/11/18 19:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/10/18 07:13	04/11/18 19:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**249**	ug/kg	49.9	11.4	1	04/10/18 07:13	04/11/18 19:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**196**	ug/kg	49.9	11.4	1	04/10/18 07:13	04/11/18 19:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**58.4**	ug/kg	49.9	11.4	1	04/10/18 07:13	04/11/18 19:33	11096-82-5	
PCB, Total	**538**	ug/kg	49.9	11.4	1	04/10/18 07:13	04/11/18 19:33	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	60-140		1	04/10/18 07:13	04/11/18 19:33	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		1	04/10/18 07:13	04/11/18 19:33	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/02/18 14:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.59**	%	0.030	0.030	1		04/11/18 07:20		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD4-170619-01-SMB-06 **Lab ID: 40157830007** Collected: 06/19/17 13:41 Received: 10/03/17 14:25 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)	**<45.5**	ug/kg	199	45.5	4	04/10/18 07:13	04/11/18 19:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.5**	ug/kg	199	45.5	4	04/10/18 07:13	04/11/18 19:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.5**	ug/kg	199	45.5	4	04/10/18 07:13	04/11/18 19:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.5**	ug/kg	199	45.5	4	04/10/18 07:13	04/11/18 19:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**538**	ug/kg	199	45.5	4	04/10/18 07:13	04/11/18 19:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**734**	ug/kg	199	45.5	4	04/10/18 07:13	04/11/18 19:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**698**	ug/kg	199	45.5	4	04/10/18 07:13	04/11/18 19:49	11096-82-5	
PCB, Total	**1970**	ug/kg	199	45.5	4	04/10/18 07:13	04/11/18 19:49	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		4	04/10/18 07:13	04/11/18 19:49	877-09-8	
Decachlorobiphenyl (S)	108	%	60-140		4	04/10/18 07:13	04/11/18 19:49	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/02/18 14:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.46**	%	0.030	0.030	1		04/11/18 07:20		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD2-170619-01-BB-09 **Lab ID: 40157830008** Collected: 06/19/17 13:53 Received: 10/03/17 14:25 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 17:28	12674-11-2	
PCB-1221 (Aroclor 1221)	**110J**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:28	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.3**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:28	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.3**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:28	53469-21-9	
PCB-1248 (Aroclor 1248)	**609**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:28	12672-29-6	
PCB-1254 (Aroclor 1254)	**273**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:28	11097-69-1	
PCB-1260 (Aroclor 1260)	**62.1J**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:28	11096-82-5	
PCB, Total	**1050**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:28	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		3	04/13/18 07:19	04/17/18 17:28	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		3	04/13/18 07:19	04/17/18 17:28	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/02/18 14:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.4**	%	0.030	0.030	1		04/17/18 06:59		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD2-170619-01-BB-08 **Lab ID: 40157830009** Collected: 06/19/17 13:51 Received: 10/03/17 14:25 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 17:44	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.3**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:44	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.3**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:44	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.3**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:44	53469-21-9	
PCB-1248 (Aroclor 1248)	**1010**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**527**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:44	11097-69-1	
PCB-1260 (Aroclor 1260)	**112J**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:44	11096-82-5	
PCB, Total	**1650**	ug/kg	150	34.3	3	04/13/18 07:19	04/17/18 17:44	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		3	04/13/18 07:19	04/17/18 17:44	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		3	04/13/18 07:19	04/17/18 17:44	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/02/18 14:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.0**	%	0.030	0.030	1		04/17/18 06:59		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD2-170619-01-BB-07 **Lab ID: 40157830010** Collected: 06/19/17 13:50 Received: 10/03/17 14:25 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 18:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**136**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 18:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 18:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 18:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**271**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 18:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**134**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 18:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**33.6J**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 18:00	11096-82-5	
PCB, Total	**574**	ug/kg	100	22.8	2	04/13/18 07:19	04/17/18 18:00	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	60-140		2	04/13/18 07:19	04/17/18 18:00	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		2	04/13/18 07:19	04/17/18 18:00	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/02/18 14:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.48**	%	0.030	0.030	1		04/17/18 06:59		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD2-170619-01-BB-06 **Lab ID: 40157830011** Collected: 06/19/17 13:48 Received: 10/03/17 14:25 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	04/13/18 07:19	04/17/18 18:47	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	04/13/18 07:19	04/17/18 18:47	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/13/18 07:19	04/17/18 18:47	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/13/18 07:19	04/17/18 18:47	53469-21-9	
PCB-1248 (Aroclor 1248)	**176**	ug/kg	49.9	11.4	1	04/13/18 07:19	04/17/18 18:47	12672-29-6	
PCB-1254 (Aroclor 1254)	**107**	ug/kg	49.9	11.4	1	04/13/18 07:19	04/17/18 18:47	11097-69-1	
PCB-1260 (Aroclor 1260)	**29.7J**	ug/kg	49.9	11.4	1	04/13/18 07:19	04/17/18 18:47	11096-82-5	
PCB, Total	**312**	ug/kg	49.9	11.4	1	04/13/18 07:19	04/17/18 18:47	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		1	04/13/18 07:19	04/17/18 18:47	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	04/13/18 07:19	04/17/18 18:47	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/02/18 14:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.37**	%	0.030	0.030	1		04/17/18 06:59		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD2-170619-01-BB-05 **Lab ID: 40157830012** Collected: 06/19/17 13:46 Received: 10/03/17 14:25 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	04/13/18 07:19	04/17/18 19:03	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	04/13/18 07:19	04/17/18 19:03	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/13/18 07:19	04/17/18 19:03	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/13/18 07:19	04/17/18 19:03	53469-21-9	
PCB-1248 (Aroclor 1248)	**248**	ug/kg	50.0	11.4	1	04/13/18 07:19	04/17/18 19:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**155**	ug/kg	50.0	11.4	1	04/13/18 07:19	04/17/18 19:03	11097-69-1	
PCB-1260 (Aroclor 1260)	**44.2J**	ug/kg	50.0	11.4	1	04/13/18 07:19	04/17/18 19:03	11096-82-5	
PCB, Total	**447**	ug/kg	50.0	11.4	1	04/13/18 07:19	04/17/18 19:03	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		1	04/13/18 07:19	04/17/18 19:03	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		1	04/13/18 07:19	04/17/18 19:03	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/02/18 14:52		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.41**	%	0.030	0.030	1		04/17/18 07:00		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD1-170619-01-YB-03 **Lab ID: 40157830013** Collected: 06/19/17 14:10 Received: 10/03/17 14:25 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	04/12/18 07:14	04/17/18 12:43	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<34.2**	ug/kg	150	34.2	3	04/12/18 07:14	04/17/18 12:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	04/12/18 07:14	04/17/18 12:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	04/12/18 07:14	04/17/18 12:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**773**	ug/kg	150	34.2	3	04/12/18 07:14	04/17/18 12:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**405**	ug/kg	150	34.2	3	04/12/18 07:14	04/17/18 12:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**54.3J**	ug/kg	150	34.2	3	04/12/18 07:14	04/17/18 12:43	11096-82-5	
PCB, Total	**1230**	ug/kg	150	34.2	3	04/12/18 07:14	04/17/18 12:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		3	04/12/18 07:14	04/17/18 12:43	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		3	04/12/18 07:14	04/17/18 12:43	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/02/18 14:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.91**	%	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.: 40157830

Sample: TD1-170619-01-SMB-10 **Lab ID: 40157830014** Collected: 06/19/17 14:08 Received: 10/03/17 14:25 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<56.9**	ug/kg	249	56.9	5	04/10/18 07:13	04/11/18 20:05	12674-11-2	
PCB-1221 (Aroclor 1221)	**<56.9**	ug/kg	249	56.9	5	04/10/18 07:13	04/11/18 20:05	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.9**	ug/kg	249	56.9	5	04/10/18 07:13	04/11/18 20:05	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.9**	ug/kg	249	56.9	5	04/10/18 07:13	04/11/18 20:05	53469-21-9	
PCB-1248 (Aroclor 1248)	**1750**	ug/kg	249	56.9	5	04/10/18 07:13	04/11/18 20:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**1360**	ug/kg	249	56.9	5	04/10/18 07:13	04/11/18 20:05	11097-69-1	
PCB-1260 (Aroclor 1260)	**353**	ug/kg	249	56.9	5	04/10/18 07:13	04/11/18 20:05	11096-82-5	
PCB, Total	**3460**	ug/kg	249	56.9	5	04/10/18 07:13	04/11/18 20:05	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		5	04/10/18 07:13	04/11/18 20:05	877-09-8	
Decachlorobiphenyl (S)	111	%	60-140		5	04/10/18 07:13	04/11/18 20:05	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/02/18 14:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.49**	%	0.030	0.030	1		04/11/18 07:20		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD1-170619-01-SMB-09 **Lab ID: 40157830015** Collected: 06/19/17 14:06 Received: 10/03/17 14:25 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)	**<45.5**	ug/kg	200	45.5	4	04/10/18 07:13	04/11/18 20:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.5**	ug/kg	200	45.5	4	04/10/18 07:13	04/11/18 20:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.5**	ug/kg	200	45.5	4	04/10/18 07:13	04/11/18 20:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.5**	ug/kg	200	45.5	4	04/10/18 07:13	04/11/18 20:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**1060**	ug/kg	200	45.5	4	04/10/18 07:13	04/11/18 20:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**809**	ug/kg	200	45.5	4	04/10/18 07:13	04/11/18 20:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**213**	ug/kg	200	45.5	4	04/10/18 07:13	04/11/18 20:21	11096-82-5	
PCB, Total	**2080**	ug/kg	200	45.5	4	04/10/18 07:13	04/11/18 20:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	60-140		4	04/10/18 07:13	04/11/18 20:21	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		4	04/10/18 07:13	04/11/18 20:21	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/02/18 14:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.51**	%	0.030	0.030	1		04/11/18 07:20		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD1-170619-01-SMB-08 **Lab ID: 40157830016** Collected: 06/19/17 14:04 Received: 10/03/17 14:25 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	04/17/18 07:09	04/18/18 15:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.2**	ug/kg	150	34.2	3	04/17/18 07:09	04/18/18 15:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	04/17/18 07:09	04/18/18 15:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	04/17/18 07:09	04/18/18 15:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**764**	ug/kg	150	34.2	3	04/17/18 07:09	04/18/18 15:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**579**	ug/kg	150	34.2	3	04/17/18 07:09	04/18/18 15:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**113J**	ug/kg	150	34.2	3	04/17/18 07:09	04/18/18 15:20	11096-82-5	
PCB, Total	**1460**	ug/kg	150	34.2	3	04/17/18 07:09	04/18/18 15:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		3	04/17/18 07:09	04/18/18 15:20	877-09-8	
Decachlorobiphenyl (S)	104	%	60-140		3	04/17/18 07:09	04/18/18 15:20	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/02/18 14:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.48**	%	0.030	0.030	1		04/18/18 07:46		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD1-170619-01-SMB-07 **Lab ID: 40157830017** Collected: 06/19/17 14:03 Received: 10/03/17 14:25 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	04/17/18 07:09	04/18/18 15:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.6**	ug/kg	200	45.6	4	04/17/18 07:09	04/18/18 15:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.6**	ug/kg	200	45.6	4	04/17/18 07:09	04/18/18 15:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.6**	ug/kg	200	45.6	4	04/17/18 07:09	04/18/18 15:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**798**	ug/kg	200	45.6	4	04/17/18 07:09	04/18/18 15:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**539**	ug/kg	200	45.6	4	04/17/18 07:09	04/18/18 15:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**106J**	ug/kg	200	45.6	4	04/17/18 07:09	04/18/18 15:52	11096-82-5	
PCB, Total	**1440**	ug/kg	200	45.6	4	04/17/18 07:09	04/18/18 15:52	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		4	04/17/18 07:09	04/18/18 15:52	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		4	04/17/18 07:09	04/18/18 15:52	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/02/18 14:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.27**	%	0.030	0.030	1		04/18/18 07:47		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD1-170619-01-SMB-06 **Lab ID: 40157830018** Collected: 06/19/17 14:02 Received: 10/03/17 14:25 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	04/17/18 07:09	04/18/18 16:08	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.0**	ug/kg	250	57.0	5	04/17/18 07:09	04/18/18 16:08	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.0**	ug/kg	250	57.0	5	04/17/18 07:09	04/18/18 16:08	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.0**	ug/kg	250	57.0	5	04/17/18 07:09	04/18/18 16:08	53469-21-9	
PCB-1248 (Aroclor 1248)	**1920**	ug/kg	250	57.0	5	04/17/18 07:09	04/18/18 16:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**1390**	ug/kg	250	57.0	5	04/17/18 07:09	04/18/18 16:08	11097-69-1	
PCB-1260 (Aroclor 1260)	**213J**	ug/kg	250	57.0	5	04/17/18 07:09	04/18/18 16:08	11096-82-5	
PCB, Total	**3520**	ug/kg	250	57.0	5	04/17/18 07:09	04/18/18 16:08	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		5	04/17/18 07:09	04/18/18 16:08	877-09-8	
Decachlorobiphenyl (S)	107	%	60-140		5	04/17/18 07:09	04/18/18 16:08	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		04/02/18 14:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.83**	%	0.030	0.030	1		04/18/18 07:47		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Sample: TD1-170619-01-BB-04 **Lab ID: 40157830019** Collected: 06/19/17 14:09 Received: 10/03/17 14:25 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.7**	ug/kg	99.7	22.7	2	04/13/18 07:19	04/18/18 14:17	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<22.7**	ug/kg	99.7	22.7	2	04/13/18 07:19	04/18/18 14:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.7**	ug/kg	99.7	22.7	2	04/13/18 07:19	04/18/18 14:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.7**	ug/kg	99.7	22.7	2	04/13/18 07:19	04/18/18 14:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**466**	ug/kg	99.7	22.7	2	04/13/18 07:19	04/18/18 14:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**215**	ug/kg	99.7	22.7	2	04/13/18 07:19	04/18/18 14:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**44.0J**	ug/kg	99.7	22.7	2	04/13/18 07:19	04/18/18 14:17	11096-82-5	
PCB, Total	**724**	ug/kg	99.7	22.7	2	04/13/18 07:19	04/18/18 14:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		2	04/13/18 07:19	04/18/18 14:17	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		2	04/13/18 07:19	04/18/18 14:17	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		04/02/18 14:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		04/17/18 07:00		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

QC Batch: 285341 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157830001, 40157830002, 40157830004

METHOD BLANK: 1669842 | Matrix: Tissue
Associated Lab Samples: 40157830001, 40157830002, 40157830004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/10/18 14:22	
Decachlorobiphenyl (S)	%	87	60-140		04/10/18 14:22	
Tetrachloro-m-xylene (S)	%	72	60-140		04/10/18 14:22	

LABORATORY CONTROL SAMPLE: 1669843

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	224	90	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)	%			85	60-140	

MATRIX SPIKE SAMPLE: 1669844

Parameter	Units	40157703018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<114		<114			
PCB-1221 (Aroclor 1221)	ug/kg	255J		355J			
PCB-1232 (Aroclor 1232)	ug/kg	<114		<114			
PCB-1242 (Aroclor 1242)	ug/kg	<114	249	465J	186	70-130	M6
PCB-1248 (Aroclor 1248)	ug/kg	1520		1650			
PCB-1254 (Aroclor 1254)	ug/kg	1230		1240			
PCB-1260 (Aroclor 1260)	ug/kg	449J		450J			
Decachlorobiphenyl (S)	%				103	60-140	
Tetrachloro-m-xylene (S)	%				88	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

SAMPLE DUPLICATE: 1669845

Parameter	Units	40157703018 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<114	<114		40	
PCB-1221 (Aroclor 1221)	ug/kg	255J	280J		40	
PCB-1232 (Aroclor 1232)	ug/kg	<114	<114		40	
PCB-1242 (Aroclor 1242)	ug/kg	<114	<114		40	
PCB-1248 (Aroclor 1248)	ug/kg	1520	1600	5	40	
PCB-1254 (Aroclor 1254)	ug/kg	1230	1270	3	40	
PCB-1260 (Aroclor 1260)	ug/kg	449J	460J		40	
Decachlorobiphenyl (S)	%	102	106	4		
Tetrachloro-m-xylene (S)	%	84	92	9		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

QC Batch: 285569 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157830005, 40157830006, 40157830007, 40157830014, 40157830015

METHOD BLANK: 1671063 | Matrix: Tissue
Associated Lab Samples: 40157830005, 40157830006, 40157830007, 40157830014, 40157830015

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.: 40157830

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.: 40157830

QC Batch: 285844 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157830013

METHOD BLANK: 1672269 | Matrix: Tissue
Associated Lab Samples: 40157830013

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.: 40157830

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.: 40157830

QC Batch: 285995 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157830003, 40157830008, 40157830009, 40157830010, 40157830011, 40157830012, 40157830019

METHOD BLANK: 1673128 | Matrix: Tissue
Associated Lab Samples: 40157830003, 40157830008, 40157830009, 40157830010, 40157830011, 40157830012, 40157830019

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.: 40157830

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.: 40157830

QC Batch: 286202 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157830016, 40157830017, 40157830018

METHOD BLANK: 1674422 | Matrix: Tissue
Associated Lab Samples: 40157830016, 40157830017, 40157830018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/18/18 14:33	
Decachlorobiphenyl (S)	%	89	60-140		04/18/18 14:33	
Tetrachloro-m-xylene (S)	%	77	60-140		04/18/18 14:33	

LABORATORY CONTROL SAMPLE: 1674423

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	247	99	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			97	60-140	
Tetrachloro-m-xylene (S)	%			84	60-140	

MATRIX SPIKE SAMPLE: 1674425

Parameter	Units	40157932003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4		<22.8			1q
PCB-1221 (Aroclor 1221)	ug/kg	<11.4		<22.8			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<22.8			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	251	328	131	70-130	M1
PCB-1248 (Aroclor 1248)	ug/kg	193		426			
PCB-1254 (Aroclor 1254)	ug/kg	123		198			
PCB-1260 (Aroclor 1260)	ug/kg	59.4		91.9J			
Decachlorobiphenyl (S)	%				98	60-140	
Tetrachloro-m-xylene (S)	%				93	60-140	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

SAMPLE DUPLICATE: 1674424

Parameter	Units	40157830016 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<34.2	<34.2		40	
PCB-1221 (Aroclor 1221)	ug/kg	<34.2	<34.2		40	
PCB-1232 (Aroclor 1232)	ug/kg	<34.2	<34.2		40	
PCB-1242 (Aroclor 1242)	ug/kg	<34.2	<34.2		40	
PCB-1248 (Aroclor 1248)	ug/kg	764	797	4	40	
PCB-1254 (Aroclor 1254)	ug/kg	579	607	5	40	
PCB-1260 (Aroclor 1260)	ug/kg	113J	120J		40	
Decachlorobiphenyl (S)	%	104	100	5		
Tetrachloro-m-xylene (S)	%	91	90	1		

SAMPLE DUPLICATE: 1674426

Parameter	Units	40157932003 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<22.7		40	1q
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<22.7		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<22.7		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<22.7		40	
PCB-1248 (Aroclor 1248)	ug/kg	193	328	52	40	2q
PCB-1254 (Aroclor 1254)	ug/kg	123	212	53	40	2q
PCB-1260 (Aroclor 1260)	ug/kg	59.4	108	58	40	2q
Decachlorobiphenyl (S)	%	90	102	13		
Tetrachloro-m-xylene (S)	%	91	98	8		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

QC Batch: 285344 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157830001, 40157830002, 40157830004

METHOD BLANK: 1669846 | Matrix: Tissue
Associated Lab Samples: 40157830001, 40157830002, 40157830004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/09/18 06:25	

MATRIX SPIKE SAMPLE: 1682606

Parameter	Units	40157703018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	1.1		1.1			

SAMPLE DUPLICATE: 1669849

Parameter	Units	40157703018 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.1	1.0	0	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

QC Batch: 285708 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157830005, 40157830006, 40157830007, 40157830014, 40157830015

METHOD BLANK: 1671710 | Matrix: Tissue
Associated Lab Samples: 40157830005, 40157830006, 40157830007, 40157830014, 40157830015

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

MATRIX SPIKE SAMPLE: 1682838

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

SAMPLE DUPLICATE: 1671713

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

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

QC Batch: 285997 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157830013

METHOD BLANK: 1673137 | Matrix: Tissue
Associated Lab Samples: 40157830013

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.: 40157830

QC Batch: 286205 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40157830003, 40157830008, 40157830009, 40157830010, 40157830011, 40157830012, 40157830019

METHOD BLANK: 1674431 Matrix: Tissue
Associated Lab Samples: 40157830003, 40157830008, 40157830009, 40157830010, 40157830011, 40157830012, 40157830019

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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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

QC Batch: 286328 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40157830016, 40157830017, 40157830018

METHOD BLANK: 1674924 Matrix: Tissue
Associated Lab Samples: 40157830016, 40157830017, 40157830018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/18/18 07:45	

MATRIX SPIKE SAMPLE: 1683154

Parameter	Units	40157932003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.92		1.0			

SAMPLE DUPLICATE: 1674926

Parameter	Units	40157830016 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.48	0.52	8	40	

SAMPLE DUPLICATE: 1674928

Parameter	Units	40157932003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.92	1.1	21	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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QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

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.
2q	The duplicate acceptance criteria for sample results when at least one result is <5x the reporting limit is the difference between the results is <2x the reporting limit. The sample and duplicate precision do not exceed project criteria.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157830001	TD5-170619-01-BB-13	EPA 3541	285341	EPA 8082A Mod	285493
40157830002	TD5-170619-01-BB-12	EPA 3541	285341	EPA 8082A Mod	285493
40157830003	TD5-170619-01-BB-11	EPA 3541	285995	EPA 8082A Mod	286227
40157830004	TD5-170619-01-BB-10	EPA 3541	285341	EPA 8082A Mod	285493
40157830005	TD4-170619-01-SMB-08	EPA 3541	285569	EPA 8082A Mod	285728
40157830006	TD4-170619-01-SMB-07	EPA 3541	285569	EPA 8082A Mod	285728
40157830007	TD4-170619-01-SMB-06	EPA 3541	285569	EPA 8082A Mod	285728
40157830008	TD2-170619-01-BB-09	EPA 3541	285995	EPA 8082A Mod	286227
40157830009	TD2-170619-01-BB-08	EPA 3541	285995	EPA 8082A Mod	286227
40157830010	TD2-170619-01-BB-07	EPA 3541	285995	EPA 8082A Mod	286227
40157830011	TD2-170619-01-BB-06	EPA 3541	285995	EPA 8082A Mod	286227
40157830012	TD2-170619-01-BB-05	EPA 3541	285995	EPA 8082A Mod	286227
40157830013	TD1-170619-01-YB-03	EPA 3541	285844	EPA 8082A Mod	286018
40157830014	TD1-170619-01-SMB-10	EPA 3541	285569	EPA 8082A Mod	285728
40157830015	TD1-170619-01-SMB-09	EPA 3541	285569	EPA 8082A Mod	285728
40157830016	TD1-170619-01-SMB-08	EPA 3541	286202	EPA 8082A Mod	286371
40157830017	TD1-170619-01-SMB-07	EPA 3541	286202	EPA 8082A Mod	286371
40157830018	TD1-170619-01-SMB-06	EPA 3541	286202	EPA 8082A Mod	286371
40157830019	TD1-170619-01-BB-04	EPA 3541	285995	EPA 8082A Mod	286227
40157830001	TD5-170619-01-BB-13	Pace Gender Typing	284930		
40157830002	TD5-170619-01-BB-12	Pace Gender Typing	284930		
40157830003	TD5-170619-01-BB-11	Pace Gender Typing	284930		
40157830004	TD5-170619-01-BB-10	Pace Gender Typing	284930		
40157830005	TD4-170619-01-SMB-08	Pace Gender Typing	284930		
40157830006	TD4-170619-01-SMB-07	Pace Gender Typing	284930		
40157830007	TD4-170619-01-SMB-06	Pace Gender Typing	284930		
40157830008	TD2-170619-01-BB-09	Pace Gender Typing	284930		
40157830009	TD2-170619-01-BB-08	Pace Gender Typing	284930		
40157830010	TD2-170619-01-BB-07	Pace Gender Typing	284930		
40157830011	TD2-170619-01-BB-06	Pace Gender Typing	284930		
40157830012	TD2-170619-01-BB-05	Pace Gender Typing	284930		
40157830013	TD1-170619-01-YB-03	Pace Gender Typing	284930		
40157830014	TD1-170619-01-SMB-10	Pace Gender Typing	284930		
40157830015	TD1-170619-01-SMB-09	Pace Gender Typing	284930		
40157830016	TD1-170619-01-SMB-08	Pace Gender Typing	284930		
40157830017	TD1-170619-01-SMB-07	Pace Gender Typing	284930		
40157830018	TD1-170619-01-SMB-06	Pace Gender Typing	284930		
40157830019	TD1-170619-01-BB-04	Pace Gender Typing	284930		
40157830001	TD5-170619-01-BB-13	Pace Lipid	285344		
40157830002	TD5-170619-01-BB-12	Pace Lipid	285344		
40157830003	TD5-170619-01-BB-11	Pace Lipid	286205		
40157830004	TD5-170619-01-BB-10	Pace Lipid	285344		

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157830005	**TD4-170619-01-SMB-08**	Pace Lipid	285708		
40157830006	**TD4-170619-01-SMB-07**	Pace Lipid	285708		
40157830007	**TD4-170619-01-SMB-06**	Pace Lipid	285708		
40157830008	**TD2-170619-01-BB-09**	Pace Lipid	286205		
40157830009	**TD2-170619-01-BB-08**	Pace Lipid	286205		
40157830010	**TD2-170619-01-BB-07**	Pace Lipid	286205		
40157830011	**TD2-170619-01-BB-06**	Pace Lipid	286205		
40157830012	**TD2-170619-01-BB-05**	Pace Lipid	286205		
40157830013	**TD1-170619-01-YB-03**	Pace Lipid	285997		
40157830014	**TD1-170619-01-SMB-10**	Pace Lipid	285708		
40157830015	**TD1-170619-01-SMB-09**	Pace Lipid	285708		
40157830016	**TD1-170619-01-SMB-08**	Pace Lipid	286328		
40157830017	**TD1-170619-01-SMB-07**	Pace Lipid	286328		
40157830018	**TD1-170619-01-SMB-06**	Pace Lipid	286328		
40157830019	**TD1-170619-01-BB-04**	Pace Lipid	286205		

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40157830

583

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170619-T11-01
Sample Custodian: JER
Lab: Pace - Green Bay

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

ok 10/3/17 KW

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	TD5-170619-01	TD5-170619-01-BB-13	6/19/2017	13:39	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	1-ziplock A
002	TD5-170619-01	TD5-170619-01-BB-12	6/19/2017	13:37	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
003	TD5-170619-01	TD5-170619-01-BB-11	6/19/2017	13:35	✔	1	F	FLRC	☐	☐	☐	✔	✔	✔	
004	TD5-170619-01	TD5-170619-01-BB-10	6/19/2017	13:33	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
005	TD4-170619-01	TD4-170619-01-SMB-08	6/19/2017	13:45	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
006	TD4-170619-01	TD4-170619-01-SMB-07	6/19/2017	13:43	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
007	TD4-170619-01	TD4-170619-01-SMB-06	6/19/2017	13:41	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
008	TD2-170619-01	TD2-170619-01-BB-09	6/19/2017	13:53	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
009	TD2-170619-01	TD2-170619-01-BB-08	6/19/2017	13:51	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
010	TD2-170619-01	TD2-170619-01-BB-07	6/19/2017	13:50	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature J. R	Signature [illegible]	Signature [illegible] VIA FED EX	Signature	Signature Susan K. Wylie	Signature
Print Name Jim Ryan	Print Name A. BITTNER	Print Name A. BITTNER	Print Name	Print Name Susan K. Wylie	Print Name
Company Anchor QEA	Company PACE Temp: -0.4 C	Company PACE	Company Fed Ex	Company Pace	Company
Date/Time 6/20/17 8:00	Date/Time 6/20/17 08:00	Date/Time 10/2/17 16:00	Date/Time 10/3/17 1020	Date/Time 10/3/17 1020	Date/Time

Date Printed: 6/19/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 1 of 2**

40157830

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170619-T11-01
Sample Custodian: JER
Lab: Pace - Green Bay

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

OK 10/3/17 SKW

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
011	TD2-170619-01	TD2-170619-01-BB-06	6/19/2017	13:48	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziploc A
012	TD2-170619-01	TD2-170619-01-BB-05	6/19/2017	13:46	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	TD1-170619-01	TD1-170619-01-YB-03	6/19/2017	14:10	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	TD1-170619-01	TD1-170619-01-SMB-10	6/19/2017	14:08	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	TD1-170619-01	TD1-170619-01-SMB-09	6/19/2017	14:06	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
016	TD1-170619-01	TD1-170619-01-SMB-08	6/19/2017	14:04	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
017	TD1-170619-01	TD1-170619-01-SMB-07	6/19/2017	14:03	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
018	TD1-170619-01	TD1-170619-01-SMB-06	6/19/2017	14:02	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
019	TD1-170619-01	TD1-170619-01-BB-04	6/19/2017	14:09	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [illegible]	Signature [illegible]	Signature [illegible] VIA FED EX	Signature	Signature [illegible]	Signature
Print Name Jim Ryan	Print Name A. Bittner	Print Name A. Bittner	Print Name	Print Name Susan K. Wylie	Print Name
Company Anchor QEA	Company PACE Temp: -0.4 C	Company PACE	Company Fed Ex	Company PACE	Company
Date/Time 6/20/17 8:00	Date/Time 6/20/17 08:00	Date/Time 10/2/17 16:00	Date/Time 10/3/17 1020	Date/Time 10/3/17 1020	Date/Time

Date Printed: 6/19/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 2 of 2**

Pace Analytical

Sample Condition Upon Receipt

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

Project #: WO#: 40157830

40157830

Client Name: General Electric

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

Tracking #: 4099 9470 4700

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

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

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

Cooler Temperature Uncorr: 2.1,0,0 /Corr: 2.1,0,0 **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: 10-3-17
Initials: SKW

				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:

Tracking # 4099 9470 4696
4099 9470 4685
4099 9470 4711

10-3-17 SKW

Project Manager Review: A for TN **Date:** 10-3-17

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40157830
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 2°C. Following homogenization, tissue samples were kept frozen at less than -10°C until time of preparation for analysis.

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

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

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

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

D. Spikes:
1. **Lab Control Spike (LCS):** The control spikes were fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Batch QC was analyzed with this SDG and one portion of each parent sample was fortified with Aroclor 1242. The QAPP specified accuracy criteria were met with the following exceptions. MS 1669844 required a 1:10 dilution to bring a non-fortified Aroclor within instrument calibration range. Spike levels are below the lowest calibration level when dilution factors are greater than five; therefore, the accuracy criteria for the MS are not applicable. The “M6” data qualifier was applied to MS 1669844 on the final report. MS 1671101 required a 1:5 dilution to bring a non-fortified Aroclor within instrument calibration range, and MS 1674425 required a 1:2 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were not met; the “M1” data qualifier was applied to MS 1671101 and MS 1674425 on the final report.

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

F. Sample Duplicate: Samples TD5-170619-01-BB-11 and TD1-170619-01-SMB-08 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
TD5-170619-01-BB-13	To bring Aroclors within instrument calibration range
TD5-170619-01-BB-11	To bring Aroclors within instrument calibration range
TD5-170619-01-BB-10	To bring Aroclors within instrument calibration range
TD4-170619-01-SMB-08	To bring Aroclors within instrument calibration range
TD4-170619-01-SMB-06	To bring Aroclors within instrument calibration range
TD2-170619-01-BB-09	To bring Aroclors within instrument calibration range
TD2-170619-01-BB-08	To bring Aroclors within instrument calibration range
TD2-170619-01-BB-07	To bring Aroclors within instrument calibration range

Sample ID	Reason for dilution
TD1-170619-01-YB-03	To bring Aroclors within instrument calibration range
TD1-170619-01-SMB-10	To bring Aroclors within instrument calibration range
TD1-170619-01-SMB-09	To bring Aroclors within instrument calibration range
TD1-170619-01-SMB-08	To bring Aroclors within instrument calibration range
TD1-170619-01-SMB-07	To bring Aroclors within instrument calibration range
TD1-170619-01-SMB-06	To bring Aroclors within instrument calibration range
TD1-170619-01-BB-04	To bring Aroclors within instrument calibration range

H. **Reanalysis:** Samples TD1-170619-01-YB-03 and TD1-170619-01-BB-04 were initially analyzed straight or diluted based on screener data. Upon analysis, the samples were found to require reanalysis at different dilutions to bring individual Aroclor peaks within instrument calibration range. The samples were 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.: 40157830 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1669842	1669842BLANK	87	72
1669843	1669843LCS	94	85
40157830001	TD5-170619-01-BB-13	91	82
40157830002	TD5-170619-01-BB-12	89	90
40157830004	TD5-170619-01-BB-10	98	82

	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.: 40157830 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1671063	1671063BLANK	91	74
1671064	1671064LCS	94	84
40157830005	TD4-170619-01-SMB-08	98	93
40157830006	TD4-170619-01-SMB-07	98	98
40157830007	TD4-170619-01-SMB-06	108	86
40157830014	TD1-170619-01-SMB-10	111	91
40157830015	TD1-170619-01-SMB-09	103	82

	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.: 40157830 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1672269	1672269BLANK	98	80
1672270	1672270LCS	95	80
40157830013	TD1-170619-01-YB-03	100	89

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

* Values outside of QC Limits

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157830 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1673128	1673128BLANK	85	73
1673129	1673129LCS	84	76
1673133	1673133DUP	104	95
40157830003	TD5-170619-01-BB-11	104	94
40157830008	TD2-170619-01-BB-09	103	95
40157830009	TD2-170619-01-BB-08	101	95
40157830010	TD2-170619-01-BB-07	96	81
40157830011	TD2-170619-01-BB-06	94	88
40157830012	TD2-170619-01-BB-05	91	84
40157830019	TD1-170619-01-BB-04	95	90

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

* Values outside of QC Limits

PCB - FORM II SVOA-5
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40157830 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1674422	1674422BLANK	89	77
1674423	1674423LCS	97	84
1674424	1674424DUP	100	90
40157830016	TD1-170619-01-SMB-08	104	91
40157830017	TD1-170619-01-SMB-07	103	88
40157830018	TD1-170619-01-SMB-06	107	92

	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: 04/06/2018

Instrument: 40GCSJ

Lab File ID: 041018.B\041018009.D

Lab Sample ID: 1669843LCS

Date Analyzed (1): 04/10/2018

LCS Lot No: 192096

SDG No.: 40157830

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	224	90	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: 04/10/2018

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.: 40157830

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.

05/16/2018 8:28

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.: 40157830

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.: 40157830

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.

05/16/2018 8:30

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/17/2018

Instrument: 40GCSJ

Lab File ID: 041818.B\041818010.D

Lab Sample ID: 1674423LCS

Date Analyzed (1): 04/18/2018

LCS Lot No: 192096

SDG No.: 40157830

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	247	99	70-130

Spike Recovery: 0 out of 1 outside limits.

05/16/2018 8:30

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/06/2018

Instrument: 40GCSJ

Parent Sample ID: 40157703018

Matrix Spike - Sample No: 1669844MS

Date Analyzed (1): 04/10/2018

Lab File ID: 041018.B\041018030.D

SDG No.: 40157830

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	249	<114	465J	186	70-130

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/10/2018

Instrument: 40GCSJ

Parent Sample ID: 40157488006

Matrix Spike - Sample No: 1671101MS

Date Analyzed (1): 04/11/2018

Lab File ID: 041118.B\041118010.D

SDG No.: 40157830

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: 40157698011

Matrix Spike - Sample No: 1672272MS

Date Analyzed (1): 04/13/2018

Lab File ID: 041318.B\041318025.D

SDG No.: 40157830

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.: 40157830

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 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/17/2018

Instrument: 40GCSJ

Parent Sample ID: 40157932003

Matrix Spike - Sample No: 1674425MS

Date Analyzed (1): 04/19/2018

Lab File ID: 041918.B\041918006.D

SDG No.: 40157830

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	251	<11.4	328	131	70-130

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/06/2018

Instrument 40GCSJ

Lab Sample ID: 40157703018

Duplicate Sample No: 40157703018DUP

Date Analyzed: 04/10/2018

Lab File ID: 041018.B\041018031.D

SDG No.: 40157830

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<114	<114		0-40
PCB-1221 (Aroclor 1221)	255J	280J		0-40
PCB-1232 (Aroclor 1232)	<114	<114		0-40
PCB-1242 (Aroclor 1242)	<114	<114		0-40
PCB-1248 (Aroclor 1248)	1520	1600	5	0-40
PCB-1254 (Aroclor 1254)	1230	1270	3	0-40
PCB-1260 (Aroclor 1260)	449J	460J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/10/2018

Instrument 40GCSJ

Lab Sample ID: 40157488006

Duplicate Sample No: 40157488006DUP

Date Analyzed: 04/11/2018

Lab File ID: 041118.B\041118011.D

SDG No.: 40157830

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.: 40157830

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: 40157698011

Duplicate Sample No: 40157698011DUP

Date Analyzed: 04/13/2018

Lab File ID: 041318.B\041318026.D

SDG No.: 40157830

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.: 40157830

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: 40157698001

Duplicate Sample No: 40157698001DUP

Date Analyzed: 04/17/2018

Lab File ID: 041718.B\041718018.D

SDG No.: 40157830

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.

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: TD5-170619-01-BB-11

Duplicate Sample No: 40157830003DUP

Date Analyzed: 04/17/2018

Lab File ID: 041718.B\041718024.D

SDG No.: 40157830

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-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/17/2018

Instrument 40GCSJ

Lab Sample ID: 40157932003

Duplicate Sample No: 40157932003DUP

Date Analyzed: 04/19/2018

Lab File ID: 041918.B\041918007.D

SDG No.: 40157830

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<22.7		0-40
PCB-1221 (Aroclor 1221)	<11.4	<22.7		0-40
PCB-1232 (Aroclor 1232)	<11.4	<22.7		0-40
PCB-1242 (Aroclor 1242)	<11.4	<22.7		0-40
PCB-1248 (Aroclor 1248)	193	328	52	0-40
PCB-1254 (Aroclor 1254)	123	212	53	0-40
PCB-1260 (Aroclor 1260)	59.4	108	58	0-40

RPD: 3 out of 3 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/17/2018

Instrument 40GCSJ

Lab Sample ID: TD1-170619-01-SMB-08

Duplicate Sample No: 40157830016DUP

Date Analyzed: 04/18/2018

Lab File ID: 041818.B\041818013.D

SDG No.: 40157830

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<34.2	<34.2		0-40
PCB-1221 (Aroclor 1221)	<34.2	<34.2		0-40
PCB-1232 (Aroclor 1232)	<34.2	<34.2		0-40
PCB-1242 (Aroclor 1242)	<34.2	<34.2		0-40
PCB-1248 (Aroclor 1248)	764	797	4	0-40
PCB-1254 (Aroclor 1254)	579	607	5	0-40
PCB-1260 (Aroclor 1260)	113J	120J		0-40

RPD: 0 out of 2 outside limits.

SAMPLE NO.

1669842BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157830 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1669842

Lab File ID: 041018.B\041018008.D Date Analyzed: 04/10/2018 Time:14:22

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1669843LCS	1669843	041018.B\041018009.D	04/10/2018 14:38
1669845DUP	1669845	041018.B\041018031.D	04/10/2018 20:27
TD5-170619-01-BB-13	40157830001	041018.B\041018033.D	04/10/2018 20:58
TD5-170619-01-BB-12	40157830002	041018.B\041018034.D	04/10/2018 21:14
TD5-170619-01-BB-10	40157830004	041018.B\041018035.D	04/10/2018 21:30

SAMPLE NO.

1671063BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157830 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
TD4-170619-01-SMB-08	40157830005	041118.B\041118022.D	04/11/2018 19:17
TD4-170619-01-SMB-07	40157830006	041118.B\041118023.D	04/11/2018 19:33
TD4-170619-01-SMB-06	40157830007	041118.B\041118024.D	04/11/2018 19:49
TD1-170619-01-SMB-10	40157830014	041118.B\041118025.D	04/11/2018 20:05
TD1-170619-01-SMB-09	40157830015	041118.B\041118026.D	04/11/2018 20:21

SAMPLE NO.

1672269BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157830 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
1672273DUP	1672273	041318.B\041318026.D	04/13/2018 20:22
TD1-170619-01-YB-03	40157830013	041718.B\041718007.D	04/17/2018 12:43

SAMPLE NO.

1673128BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157830 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
1673132DUP	1673132	041718.B\041718018.D	04/17/2018 15:37
TD5-170619-01-BB-11	40157830003	041718.B\041718023.D	04/17/2018 16:56
1673133DUP	1673133	041718.B\041718024.D	04/17/2018 17:12
TD2-170619-01-BB-09	40157830008	041718.B\041718025.D	04/17/2018 17:28
TD2-170619-01-BB-08	40157830009	041718.B\041718026.D	04/17/2018 17:44
TD2-170619-01-BB-07	40157830010	041718.B\041718027.D	04/17/2018 18:00
TD2-170619-01-BB-06	40157830011	041718.B\041718030.D	04/17/2018 18:47
TD2-170619-01-BB-05	40157830012	041718.B\041718031.D	04/17/2018 19:03
TD1-170619-01-BB-04	40157830019	041818.B\041818008.D	04/18/2018 14:17

SAMPLE NO.

1674422BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157830 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1674422

Lab File ID: 041818.B\041818009.D Date Analyzed: 04/18/2018 Time:14:33

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1674423LCS	1674423	041818.B\041818010.D	04/18/2018 14:49
TD1-170619-01-SMB-08	40157830016	041818.B\041818012.D	04/18/2018 15:20
1674424DUP	1674424	041818.B\041818013.D	04/18/2018 15:36
TD1-170619-01-SMB-07	40157830017	041818.B\041818014.D	04/18/2018 15:52
TD1-170619-01-SMB-06	40157830018	041818.B\041818015.D	04/18/2018 16:08
1674426DUP	1674426	041918.B\041918007.D	04/19/2018 14:55

SAMPLE NO.

TD5-170619-01-BB-13

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157830001
Date Analyzed: 04/10/2018 20:58
Lab File ID: 041018.B\041018033.D
Initial wt/vol: 9.9827 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)	463	
11097-69-1	PCB-1254 (Aroclor 1254)	293	
11096-82-5	PCB-1260 (Aroclor 1260)	78.0	J
1336-36-3	PCB, Total	834	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018033.D
Lab Smp Id: 40157830001 Client Smp ID: TD5-170619-01-BB-13
Inj Date : 10-APR-2018 20:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830001 x2,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.983	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.412	27132	22665	0.835	0.05		
2.485	5072701	4716668	0.930	10.09	$ 2 Tetrachloro-m-xylene	
2.787	18279	16532	0.904	0.03		
2.852	30943	23201	0.750	0.05		
2.977	13261	12574	0.948	0.02		
3.021	15220	15583	1.024	0.02		
3.053	14514	12957	0.893	0.02		
3.317	59284	53076	0.895	0.11		
3.343	25865	23806	0.920	0.04		
3.434	80241	66918	0.834	0.15		
3.519	111352	94289	0.847	0.21		
3.644	37924	33242	0.877	0.07		
3.732	207023	169793	0.820	0.39		
3.827	958606	706038	0.737	1.81		
3.927	62811	32866	0.523	0.11		
3.995	138950	122324	0.880	0.26		
4.058	59039	47565	0.806	0.11		
4.137	22105	14085	0.637	0.04		
4.215	585587	464297	0.793	1.11		
4.261	1015792	988397	0.973	1.92	6 Aroclor 1248	BA
4.292	2896988	2443736	0.844	5.49		
4.417	569752	536163	0.941	1.08		
4.452	274676	240451	0.875	0.52		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.545	1315538	1229476	0.935	2.49	6 Aroclor 1248
4.588	243618	215054	0.883	0.46	
4.617	103503	85152	0.823	0.19	
4.680	136211	117366	0.862	0.25	
4.737	152616	122104	0.800	0.28	
4.768	405159	371332	0.917	0.76	
4.813	1471537	1350219	0.918	2.79	6 Aroclor 1248
4.846	289082	272782	0.944	0.54	
4.878	2967829	1807225	0.609	5.62	6 Aroclor 1248
4.956	425945	348132	0.817	0.80	
5.037	887997	807304	0.909	1.68	6 Aroclor 1248
5.101	1318752	1125560	0.854	2.50	
5.158	932767	777821	0.834	1.76	7 Aroclor 1254
5.212	1050537	861258	0.820	1.99	
5.283	233513	225608	0.966	0.44	
5.307	384415	321222	0.836	0.72	
5.362	468318	417807	0.892	0.88	
5.406	1190836	1031993	0.867	2.25	7 Aroclor 1254
5.446	884445	735692	0.832	1.67	
5.477	161019	146038	0.907	0.30	
5.509	2236790	1939901	0.867	4.24	7 Aroclor 1254
5.576	100620	88647	0.881	0.19	
5.603	322811	269086	0.834	0.61	
5.674	757534	709116	0.936	1.43	
5.710	377131	313179	0.830	0.71	
5.741	540795	402726	0.745	1.02	
5.790	2923166	2296319	0.786	5.54	
5.884	353022	245600	0.696	0.66	
5.930	282915	219009	0.774	0.53	
5.992	566624	528407	0.933	1.07	
6.024	1487048	1249505	0.840	2.82	7 Aroclor 1254
6.054	779341	612751	0.786	1.47	
6.168	430241	258264	0.600	0.81	
6.227	138600	169336	1.222	0.26	
6.242	280981	212655	0.757	0.53	
6.301	2684547	2116911	0.789	5.09	7 Aroclor 1254
6.331	259924	232539	0.895	0.49	
6.372	130883	104299	0.797	0.24	
6.431	305238	252139	0.826	0.57	
6.509	772878	708565	0.917	1.46	
6.534	668790	462097	0.691	1.26	
6.603	90896	73238	0.806	0.17	
6.659	48719	40956	0.841	0.09	
6.717	244813	216286	0.883	0.46	
6.757	291284	260785	0.895	0.55	
6.800	359233	312571	0.870	0.68	
6.839	162130	117554	0.725	0.30	
6.912	31697	30315	0.956	0.06	
6.941	144016	132057	0.917	0.27	
7.003	631675	592753	0.938	1.19	8 Aroclor 1260
7.032	73823	68257	0.925	0.14	
7.072	12167	12498	1.027	0.02	
7.121	40787	27510	0.674	0.07	
7.249	358141	323872	0.904	0.67	8 Aroclor 1260
7.280	122998	97655	0.794	0.23	
7.388	276918	228529	0.825	0.52	
7.441	272056	235608	0.866	0.51	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.548	18485	17905	0.969	0.03	
7.690	86077	75043	0.872	0.16	
7.726	83818	66200	0.790	0.15	
7.803	61624	31784	0.516	0.11	
7.899	211384	183739	0.869	0.40	8 Aroclor 1260
7.961	29143	20448	0.702	0.05	
8.049	59172	51235	0.866	0.11	
8.273	188016	164377	0.874	0.35	
8.380	20508	14118	0.688	0.03	
8.569	4981901	4291639	0.861	9.45	$ 12 Decachlorobiphenyl
8.723	11209	10061	0.898	0.02	
9.167	44972	30983	0.689	0.08	
9.466	25175	13170	0.523	0.04	
9.961	10943	9355	0.855	0.02	
	52715345	44367923		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018033.D
Lab Smp Id: 40157830001 Client Smp ID: TD5-170619-01-BB-13
Inj Date : 10-APR-2018 20:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830001 x2,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.983	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.485	2.484	0.001	5072701	0.04114	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			
4.260	4.261	-0.001	1015791	0.43355	430	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1315538	0.31697	320	0.00- 20.00	129.51	BA
4.812	4.812	0.000	1471537	0.72487	730	0.00- 20.00	144.87	BA
4.877	4.879	-0.002	2967828	0.58915	590	0.00- 20.00	292.17	BA
5.036	5.038	-0.002	887996	0.24745	250	0.00- 20.00	87.42	BA
Average of Peak Concentrations =					460			
7 Aroclor 1254					CAS #: 11097-69-1			
5.157	5.162	-0.005	932766	0.17817	180	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1190836	0.27687	280	0.00- 20.00	127.67	BA
5.509	5.510	-0.001	2236790	0.28802	290	0.00- 20.00	239.80	BA
6.023	6.027	-0.004	1487047	0.30537	300	0.00- 20.00	159.42	BA
6.300	6.299	0.001	2684546	0.41256	410	0.00- 20.00	287.80	BA
Average of Peak Concentrations =					290			
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	631674	0.06308	63	0.00- 20.00	23.53	BA
7.249	7.251	-0.002	358141	0.07493	75	0.00- 20.00	13.34	BA
7.441	7.443	-0.002	272056	0.09333	93	0.00- 20.00	10.13	BA
7.898	7.901	-0.003	211383	0.08011	80	0.00- 20.00	7.87	BA
Average of Peak Concentrations =					78			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	4981901	0.04547	46			

QC Flag Legend

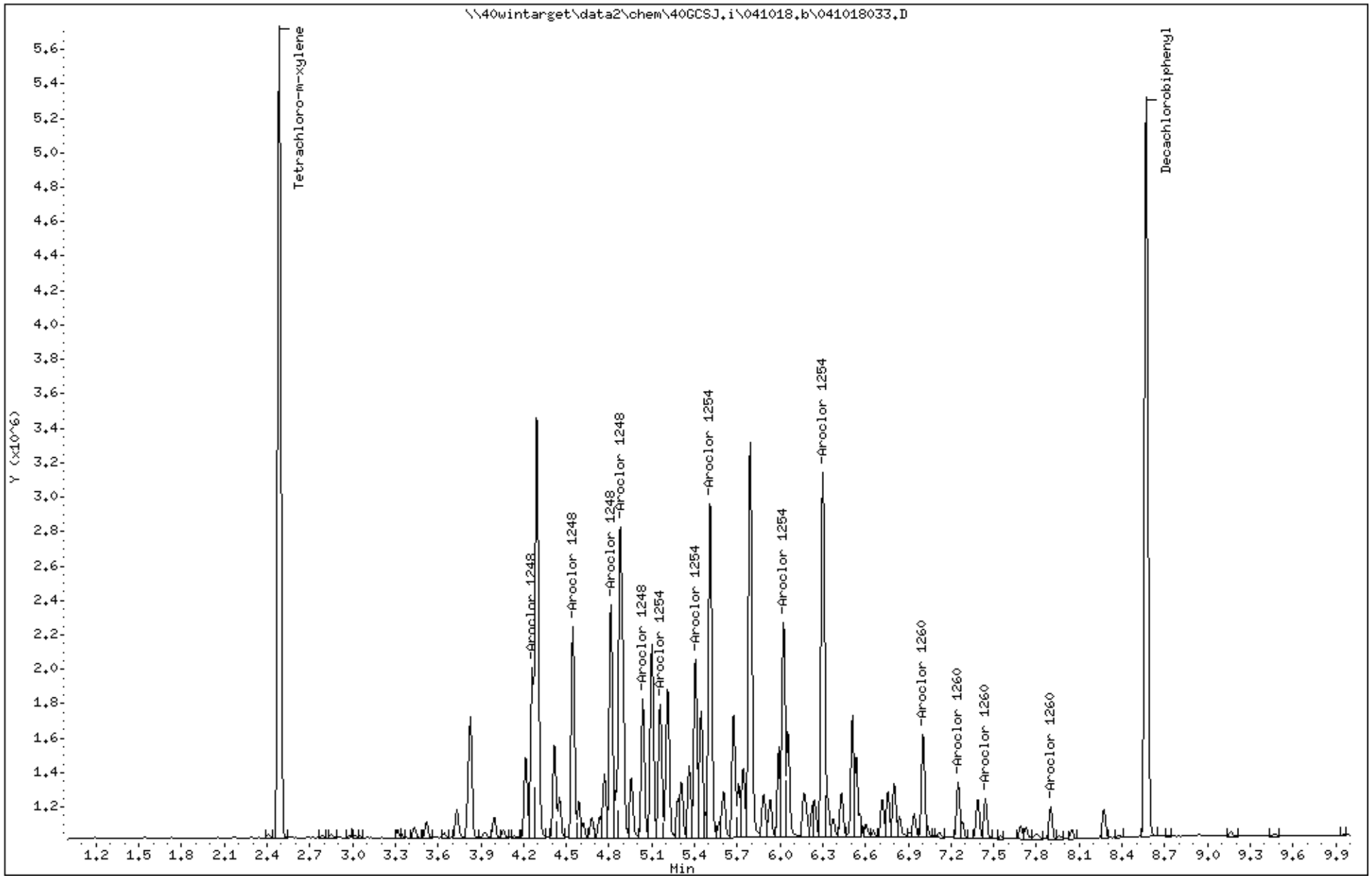
M - Compound response manually integrated.

Review Codes Legend

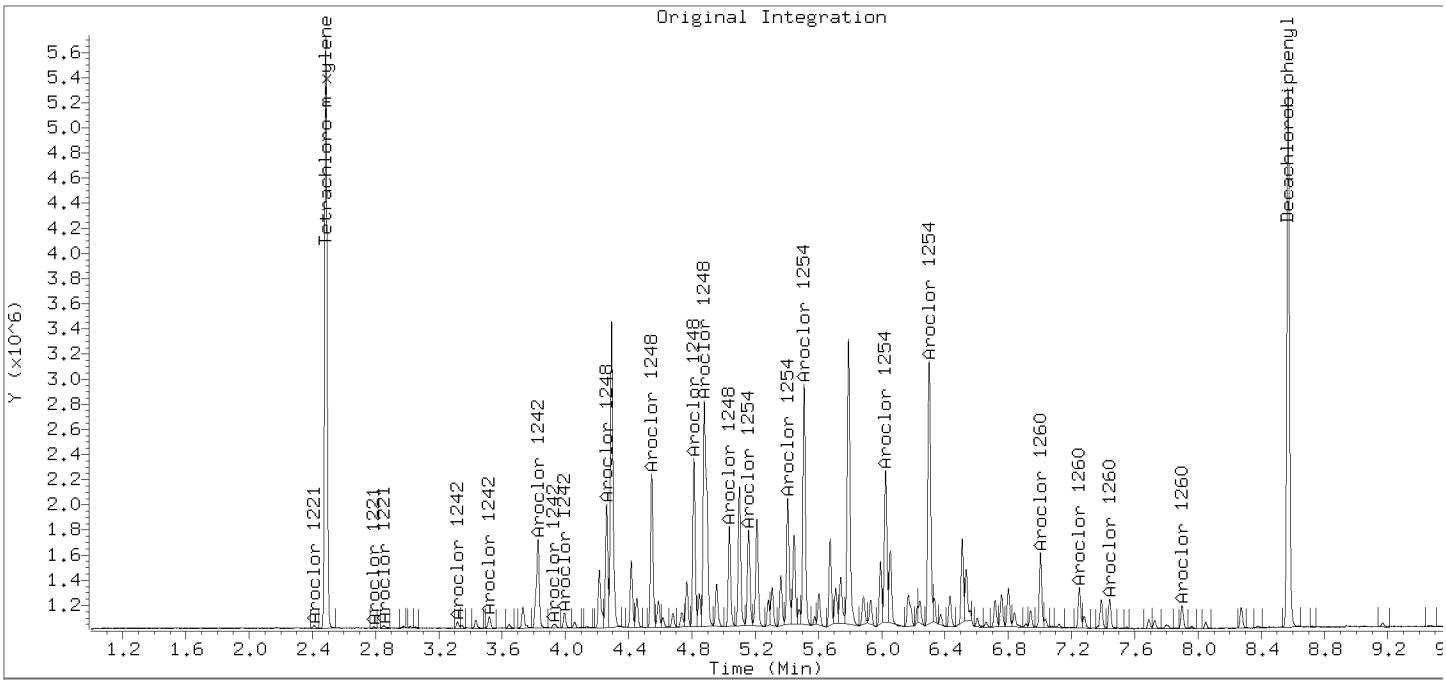
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

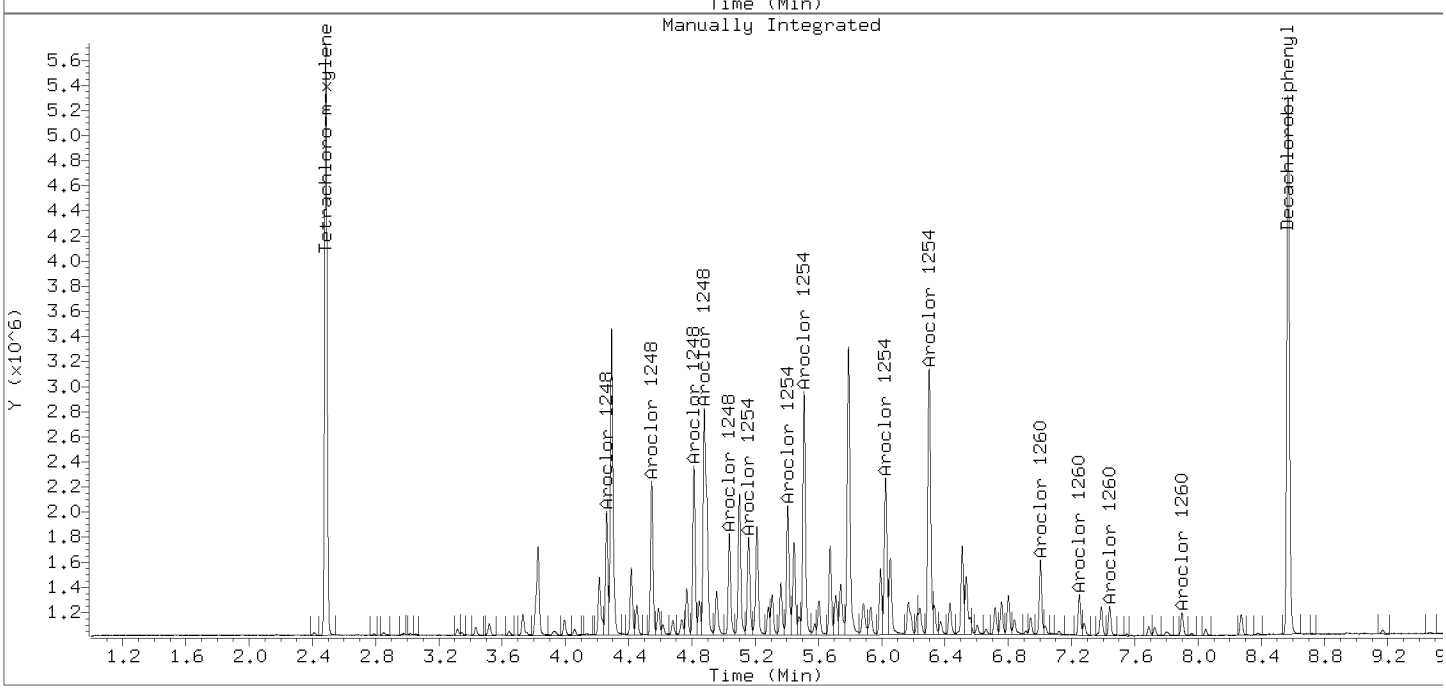
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018033.D
Date : 10-APR-2018 20:58
Client ID: TD5-170619-01-BB-13
Sample Info: 40157830001 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018033.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 20:58 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	59284	0	
Aroclor 1016	59284	0	
Aroclor 1016	59284	0	
Aroclor 1016	59284	0	
Aroclor 1016	59284	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	30943	0	
Aroclor 1232	30943	0	
Aroclor 1232	30943	0	
Aroclor 1232	30943	0	

Aroclor 1232	30943	0	
Aroclor 1242	59284	0	
Aroclor 1242	59284	0	
Aroclor 1242	59284	0	
Aroclor 1242	59284	0	
Aroclor 1242	59284	0	
Aroclor 1248	1002383	1015791	BA
Aroclor 1248	1002383	1015791	BA
Aroclor 1248	1002383	1015791	BA
Aroclor 1248	1002383	1015791	BA
Aroclor 1248	1002383	1015791	BA
Aroclor 1254	873678	932766	BA
Aroclor 1254	873678	932766	BA
Aroclor 1254	873678	932766	BA
Aroclor 1254	873678	932766	BA
Aroclor 1254	873678	932766	BA
Aroclor 1260	2591409	0	BA
Aroclor 1260	2591409	0	BA
Aroclor 1260	2591409	0	BA
Aroclor 1260	2591409	0	BA
Aroclor 1260	2591409	0	BA
Tetrachloro-m-xylene	5072701	5072701	
Decachlorobiphenyl	4981901	4981901	

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SAMPLE NO.

TD5-170619-01-BB-12

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/03/2017 14:25

Matrix: Tissue SDG No.: 40157830

Date Extracted: 04/06/2018 07:14

Lab Sample ID: 40157830002

Date Analyzed: 04/10/2018 21:14

Lab File ID: 041018.B\041018034.D

Initial wt/vol: 9.9911 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)	337	
11097-69-1	PCB-1254 (Aroclor 1254)	187	
11096-82-5	PCB-1260 (Aroclor 1260)	40.9	J
1336-36-3	PCB, Total	564	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018034.D
Lab Smp Id: 40157830002 Client Smp ID: TD5-170619-01-BB-12
Inj Date : 10-APR-2018 21:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830002,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34
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	9.991	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.073	12881	10880	0.845	0.01		
1.106	9519	7819	0.821	0.01		
1.539	11060	9460	0.855	0.01		
2.166	9242	7069	0.765	0.01		
2.196	34233	20163	0.589	0.04		
2.318	11001	8672	0.788	0.01		
2.411	48355	36396	0.753	0.06		
2.484	11068318	10691969	0.966	14.59	$ 2 Tetrachloro-m-xylene	
2.789	28156	23685	0.841	0.03		
2.850	48376	39157	0.809	0.06		
2.973	55604	34592	0.622	0.07		
3.017	44383	45568	1.027	0.05		
3.055	33228	30528	0.919	0.04		
3.317	132630	116084	0.875	0.16		
3.433	140557	133414	0.949	0.17		
3.518	250961	228269	0.910	0.31		
3.645	61284	54431	0.888	0.07		
3.692	10394	8234	0.792	0.01		
3.731	399876	329353	0.824	0.50		
3.826	2232340	1553983	0.696	2.83		
3.931	208808	128189	0.614	0.26		
3.993	365700	329429	0.901	0.46		
4.058	131070	114639	0.875	0.16		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.135	30472	26036	0.854	0.03	
4.214	1569500	1383931	0.882	1.99	
4.260	1909374	1772868	0.929	2.42	6 Aroclor 1248
4.292	3185209	2646176	0.831	4.04	
4.346	59230	38736	0.654	0.07	
4.416	1099995	1019215	0.927	1.39	
4.451	634106	566576	0.894	0.80	
4.545	2104268	1866404	0.887	2.67	6 Aroclor 1248
4.587	230613	206473	0.895	0.29	
4.617	198508	169988	0.856	0.25	
4.678	160136	131003	0.818	0.20	
4.735	186188	146350	0.786	0.23	
4.767	496854	452235	0.910	0.63	
4.812	1755436	1620179	0.923	2.22	6 Aroclor 1248
4.846	651591	619057	0.950	0.82	
4.878	3752785	2455598	0.654	4.76	6 Aroclor 1248
4.955	498626	399988	0.802	0.63	
5.036	1550838	1383484	0.892	1.96	6 Aroclor 1248
5.101	1427081	1201302	0.842	1.81	
5.160	1549964	1284075	0.828	1.96	7 Aroclor 1254
5.211	1569595	1318361	0.840	1.99	
5.282	245692	229817	0.935	0.31	
5.306	486323	395695	0.814	0.61	
5.361	690579	614335	0.890	0.87	
5.406	1544805	1349512	0.874	1.96	7 Aroclor 1254
5.446	1265070	1063628	0.841	1.60	
5.477	186951	180392	0.965	0.23	
5.508	2864830	2435907	0.850	3.63	7 Aroclor 1254
5.575	102560	92992	0.907	0.13	
5.603	446938	360537	0.807	0.56	
5.674	752191	680216	0.904	0.95	
5.708	423989	332663	0.785	0.53	
5.740	591017	435028	0.736	0.75	
5.790	3342808	2573344	0.770	4.24	
5.884	400976	279636	0.697	0.50	
5.929	324859	225245	0.693	0.41	
5.992	606079	550166	0.908	0.76	
6.024	1833736	1553266	0.847	2.32	7 Aroclor 1254
6.054	1400679	1132461	0.809	1.77	
6.168	565556	356467	0.630	0.71	
6.226	178539	213671	1.197	0.22	
6.240	345806	259188	0.750	0.43	
6.298	3040411	2436424	0.801	3.86	7 Aroclor 1254
6.332	349519	314439	0.900	0.44	
6.372	200186	145931	0.729	0.25	
6.431	351749	257472	0.732	0.44	
6.482	34265	34989	1.021	0.04	
6.508	808595	740580	0.916	1.02	
6.533	645801	558459	0.865	0.82	
6.558	207180	183569	0.886	0.26	
6.603	130399	88921	0.682	0.16	
6.659	80812	59915	0.741	0.10	
6.718	316710	253183	0.799	0.40	
6.757	337641	280516	0.831	0.42	
6.800	429837	377323	0.878	0.54	
6.839	209745	133102	0.635	0.26	
6.912	40772	36815	0.903	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.941	227496	200200	0.880	0.28	
7.003	697681	632256	0.906	0.88	8 Aroclor 1260
7.032	79667	73766	0.926	0.10	
7.072	27119	15403	0.568	0.03	
7.121	63898	35872	0.561	0.08	
7.249	394895	342677	0.868	0.50	8 Aroclor 1260
7.280	153258	115187	0.752	0.19	
7.338	21677	16619	0.767	0.02	
7.387	259283	225744	0.871	0.32	
7.441	272173	236991	0.871	0.34	8 Aroclor 1260
7.550	17115	17874	1.044	0.02	
7.579	11498	11722	1.020	0.01	
7.622	15182	8581	0.565	0.01	
7.651	8420	9210	1.094	0.01	
7.688	88347	75084	0.850	0.11	
7.725	114961	79348	0.690	0.14	
7.809	83218	47799	0.574	0.10	
7.898	213433	185586	0.870	0.27	8 Aroclor 1260
7.960	42102	21364	0.507	0.05	
8.048	110406	97956	0.887	0.14	
8.174	11956	7942	0.664	0.01	
8.273	218676	199741	0.913	0.27	
8.379	10134	11118	1.097	0.01	
8.569	9761078	8710222	0.892	12.39	$ 12 Decachlorobiphenyl
8.725	14600	12768	0.875	0.01	
8.992	10652	7239	0.680	0.01	
9.053	14382	11324	0.787	0.01	
9.167	48704	37617	0.772	0.06	
	78743959	67333032		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018034.D
Lab Smp Id: 40157830002 Client Smp ID: TD5-170619-01-BB-12
Inj Date : 10-APR-2018 21:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830002,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34
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	9.991	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.483	2.484	-0.001	11068318	0.08977	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			
4.259	4.261	-0.002	1909373	0.81494	410	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2104267	0.50701	250	0.00- 20.00	110.21	BA
4.811	4.812	-0.001	1755435	0.86471	430	0.00- 20.00	91.94	BA
4.877	4.879	-0.002	3752784	0.74498	370	0.00- 20.00	196.55	BA
5.036	5.038	-0.002	1550837	0.43216	220	0.00- 20.00	81.22	BA
Average of Peak Concentrations =					340			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1549963	0.29606	150	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1544805	0.35917	180	0.00- 20.00	99.67	BA
5.507	5.510	-0.003	2864829	0.36889	180	0.00- 20.00	184.83	BA
6.023	6.027	-0.004	1833736	0.37656	190	0.00- 20.00	118.31	BA
6.298	6.299	-0.001	3040410	0.46724	230	0.00- 20.00	196.16	BA
Average of Peak Concentrations =					190			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.002	7.006	-0.004	697680	0.06967	35	0.00- 20.00	22.95	BA
7.248	7.251	-0.003	394895	0.08262	41	0.00- 20.00	12.99	BA
7.440	7.443	-0.003	272172	0.09337	47	0.00- 20.00	8.95	BA
7.897	7.901	-0.004	213432	0.08088	40	0.00- 20.00	7.02	BA
Average of Peak Concentrations =					41			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9761077	0.08909	44			

QC Flag Legend

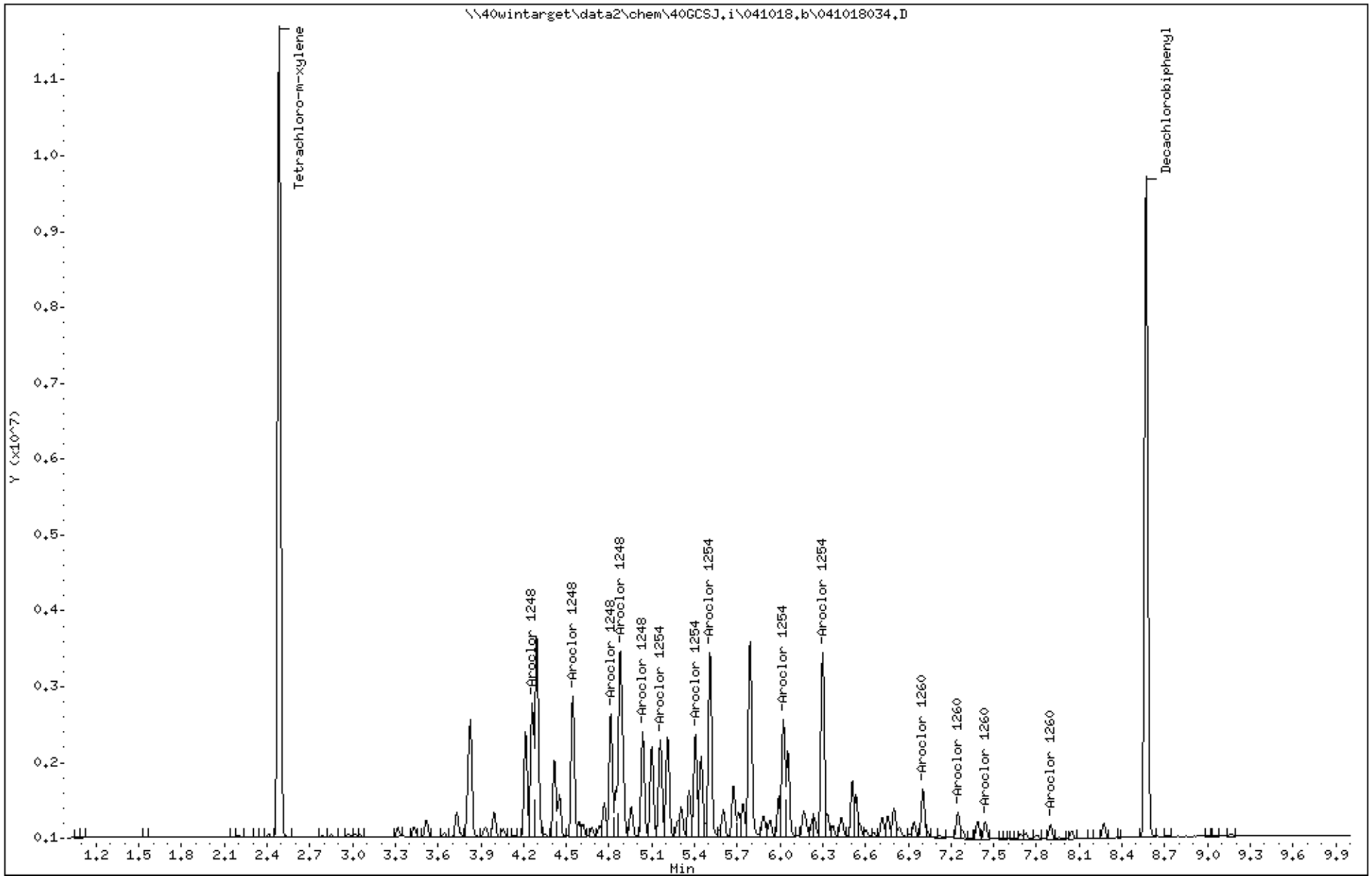
M - Compound response manually integrated.

Review Codes Legend

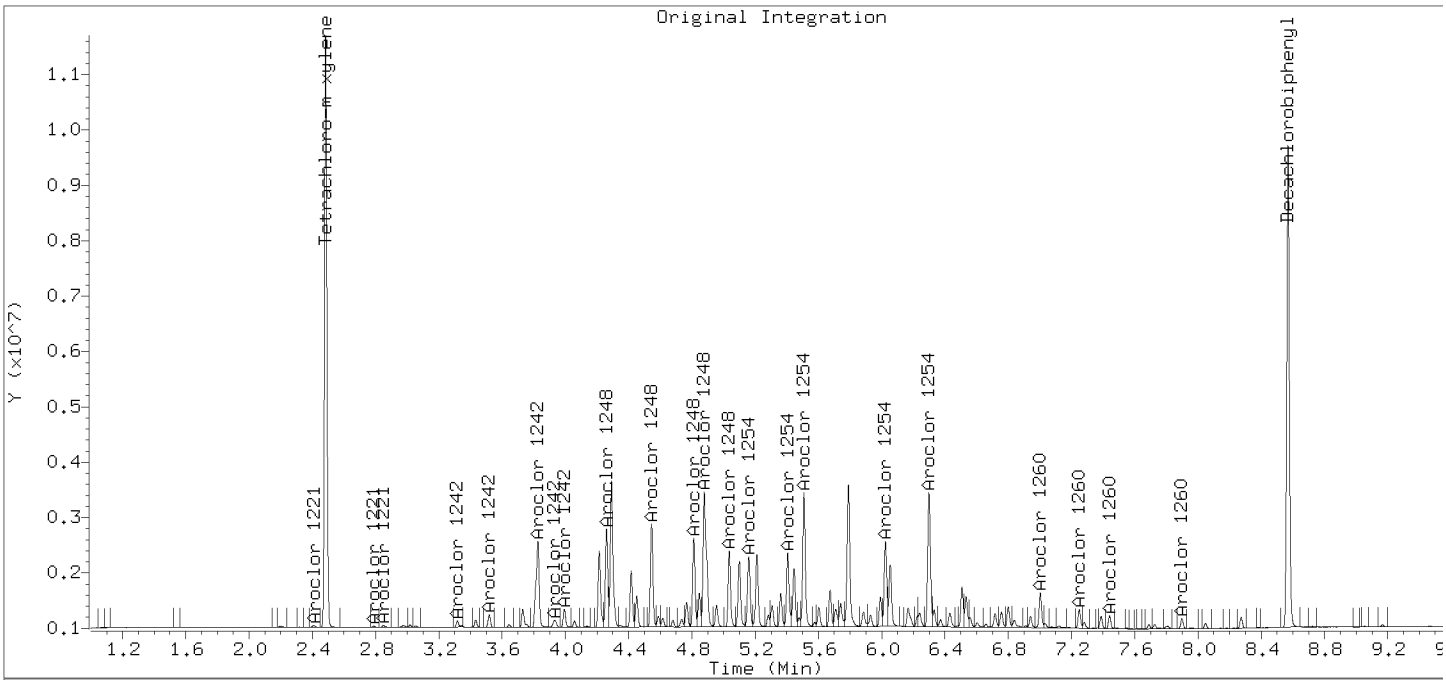
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

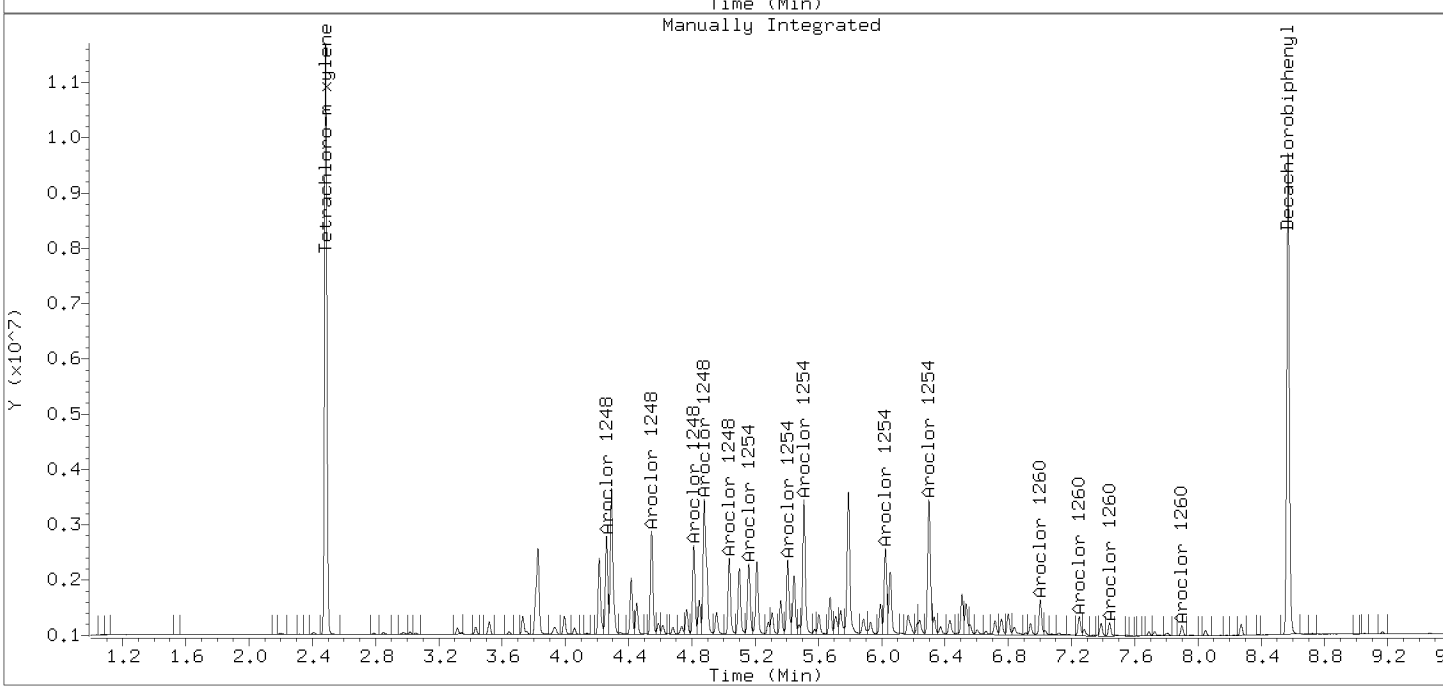
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018034.D
Date : 10-APR-2018 21:14
Client ID: TD5-170619-01-BB-12
Sample Info: 40157830002,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018034.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 21:14 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	132630	0	
Aroclor 1016	132630	0	
Aroclor 1016	132630	0	
Aroclor 1016	132630	0	
Aroclor 1016	132630	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	48376	0	
Aroclor 1232	48376	0	
Aroclor 1232	48376	0	
Aroclor 1232	48376	0	

Aroclor 1232	48376	0	
Aroclor 1242	132630	0	
Aroclor 1242	132630	0	
Aroclor 1242	132630	0	
Aroclor 1242	132630	0	
Aroclor 1242	132630	0	
Aroclor 1248	1892541	1909373	BA
Aroclor 1248	1892541	1909373	BA
Aroclor 1248	1892541	1909373	BA
Aroclor 1248	1892541	1909373	BA
Aroclor 1248	1892541	1909373	BA
Aroclor 1254	1501135	1549963	BA
Aroclor 1254	1501135	1549963	BA
Aroclor 1254	1501135	1549963	BA
Aroclor 1254	1501135	1549963	BA
Aroclor 1254	1501135	1549963	BA
Aroclor 1260	2994428	0	BA
Aroclor 1260	2994428	0	BA
Aroclor 1260	2994428	0	BA
Aroclor 1260	2994428	0	BA
Aroclor 1260	2994428	0	BA
Tetrachloro-m-xylene	11068318	11068318	
Decachlorobiphenyl	9761077	9761077	

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SAMPLE NO.

TD5-170619-01-BB-11

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/13/2018 07:19
Lab Sample ID: 40157830003
Date Analyzed: 04/17/2018 16:56
Lab File ID: 041718.B\041718023.D
Initial wt/vol: 10.0351 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)	605	
11097-69-1	PCB-1254 (Aroclor 1254)	440	
11096-82-5	PCB-1260 (Aroclor 1260)	145	J
1336-36-3	PCB, Total	1190	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718023.D
Lab Smp Id: 40157830003 Client Smp ID: TD5-170619-01-BB-11
Inj Date : 17-APR-2018 16:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830003 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: 23
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	10.035	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.685	10820	8501	0.786	0.02			
2.409	21432	12351	0.576	0.04		1 Aroclor 1221	
2.485	3857690	3522465	0.913	8.39	$	2 Tetrachloro-m-xylene	
2.789	16963	12919	0.762	0.03		1 Aroclor 1221	
2.850	35441	24069	0.679	0.07		1 Aroclor 1221	
2.976	15876	11827	0.745	0.03			
3.022	9431	9293	0.985	0.01			
3.319	36872	33076	0.897	0.07			
3.343	24039	21020	0.874	0.04			
3.434	31928	28684	0.898	0.06			
3.519	70511	66827	0.948	0.14			
3.642	18380	14482	0.788	0.03			
3.731	101898	84553	0.830	0.21			
3.827	493265	358415	0.727	1.01			
3.928	44322	26152	0.590	0.09			
3.994	88050	80319	0.912	0.18			
4.052	51046	37671	0.738	0.10			
4.129	9972	8975	0.900	0.02			
4.216	403978	320157	0.793	0.83			
4.261	819283	807817	0.986	1.68		6 Aroclor 1248	BA
4.292	2642821	2235384	0.846	5.44			
4.346	35717	25834	0.723	0.07			
4.417	413757	392242	0.948	0.85			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	228935	207192	0.905	0.47	
4.546	1170327	1114051	0.952	2.41	6 Aroclor 1248
4.589	261138	240147	0.920	0.53	
4.617	79846	68810	0.862	0.16	
4.679	146725	130024	0.886	0.30	
4.737	154576	135283	0.875	0.31	
4.767	480937	451811	0.939	0.99	
4.813	1209212	1131437	0.936	2.49	6 Aroclor 1248
4.848	169060	167698	0.992	0.34	
4.879	2624994	1509697	0.575	5.41	6 Aroclor 1248
4.955	400556	325402	0.812	0.82	
5.037	991468	907463	0.915	2.04	6 Aroclor 1248
5.101	1378867	1225215	0.889	2.84	
5.159	938942	808266	0.861	1.93	7 Aroclor 1254
5.211	1029586	868033	0.843	2.12	
5.284	229812	231076	1.006	0.47	
5.307	465552	395879	0.850	0.95	
5.363	440102	383737	0.872	0.90	
5.406	1247960	1082758	0.868	2.57	7 Aroclor 1254
5.446	803538	678175	0.844	1.65	
5.478	157614	146123	0.927	0.32	
5.509	2200459	1928697	0.876	4.53	7 Aroclor 1254
5.577	95694	89324	0.933	0.19	
5.603	308363	260582	0.845	0.63	
5.674	781797	739502	0.946	1.61	
5.709	391708	332818	0.850	0.80	
5.741	551840	427839	0.775	1.13	
5.791	2808788	2170590	0.773	5.78	
5.885	352911	268042	0.760	0.72	
5.930	340081	263699	0.775	0.70	
5.993	621515	590001	0.949	1.28	
6.024	1480347	1267838	0.856	3.05	7 Aroclor 1254
6.056	734783	622253	0.847	1.51	
6.168	476379	307273	0.645	0.98	
6.227	160375	183151	1.142	0.33	
6.242	279824	230442	0.824	0.57	
6.301	2703063	2231856	0.826	5.57	7 Aroclor 1254
6.332	257527	237118	0.921	0.53	
6.373	138385	117748	0.851	0.28	
6.431	319817	265117	0.829	0.65	
6.510	727073	642897	0.884	1.49	
6.536	481247	440973	0.916	0.99	
6.559	176058	158353	0.899	0.36	
6.604	89487	76506	0.855	0.18	
6.661	52307	48551	0.928	0.10	
6.717	262774	230902	0.879	0.54	
6.759	311512	281257	0.903	0.64	
6.800	370900	319261	0.861	0.76	
6.839	165079	119415	0.723	0.34	
6.912	37220	33116	0.890	0.07	
6.942	146352	138764	0.948	0.30	
7.004	763738	685770	0.898	1.57	8 Aroclor 1260
7.034	72892	68892	0.945	0.15	
7.074	11793	14186	1.203	0.02	
7.121	37312	30261	0.811	0.07	
7.251	401231	360563	0.899	0.82	8 Aroclor 1260
7.281	131449	112011	0.852	0.27	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.389	275143	246415	0.896	0.56	
7.442	331934	291585	0.878	0.68	8 Aroclor 1260
7.555	23966	19997	0.834	0.04	
7.616	13973	10863	0.777	0.02	
7.691	89356	88217	0.987	0.18	
7.727	76385	66760	0.874	0.15	
7.803	54791	36238	0.661	0.11	
7.899	302541	264711	0.875	0.62	8 Aroclor 1260
7.964	34311	22180	0.646	0.07	
8.050	71853	57267	0.797	0.14	
8.274	238550	208532	0.874	0.49	
8.375	13028	8744	0.671	0.02	
8.448	9335	7133	0.764	0.01	
8.571	3813962	3200991	0.839	7.86	$ 12 Decachlorobiphenyl
8.724	10837	9569	0.883	0.02	
9.047	14666	8577	0.585	0.03	
9.169	32368	25206	0.779	0.06	
	48512317	41219863		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718023.D
Lab Smp Id: 40157830003 Client Smp ID: TD5-170619-01-BB-11
Inj Date : 17-APR-2018 16:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830003 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: 23
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	10.035	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		
2.485	2.484	0.001	3857689	0.03129	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	819282	0.34968	520	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1170326	0.28199	420	0.00- 20.00	142.85	BA
4.812	4.812	0.000	1209212	0.59565	890	0.00- 20.00	147.59	BA
4.878	4.879	-0.001	2624994	0.52110	780	0.00- 20.00	320.40	BA
5.036	5.038	-0.002	991468	0.27629	410	0.00- 20.00	121.02	BA
Average of Peak Concentrations =					600			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	938942	0.17935	270	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1247960	0.29015	430	0.00- 20.00	132.91	BA
5.509	5.510	-0.001	2200458	0.28334	420	0.00- 20.00	234.36	BA
6.024	6.027	-0.003	1480346	0.30399	450	0.00- 20.00	157.66	BA
6.300	6.299	0.001	2703062	0.41540	620	0.00- 20.00	287.88	BA
Average of Peak Concentrations =					440			
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	763738	0.07626	110	0.00- 20.00	28.25	BA
7.250	7.251	-0.001	401230	0.08394	120	0.00- 20.00	14.84	BA
7.442	7.443	-0.001	331933	0.11387	170	0.00- 20.00	12.28	BA
7.898	7.901	-0.003	302541	0.11465	170	0.00- 20.00	11.19	BA
Average of Peak Concentrations =					140			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	3813961	0.03481	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\041718023.D

Date : 17-APR-2018 16:56

Client ID: TD5-170619-01-BB-11

Instrument: 40GCSJ.i

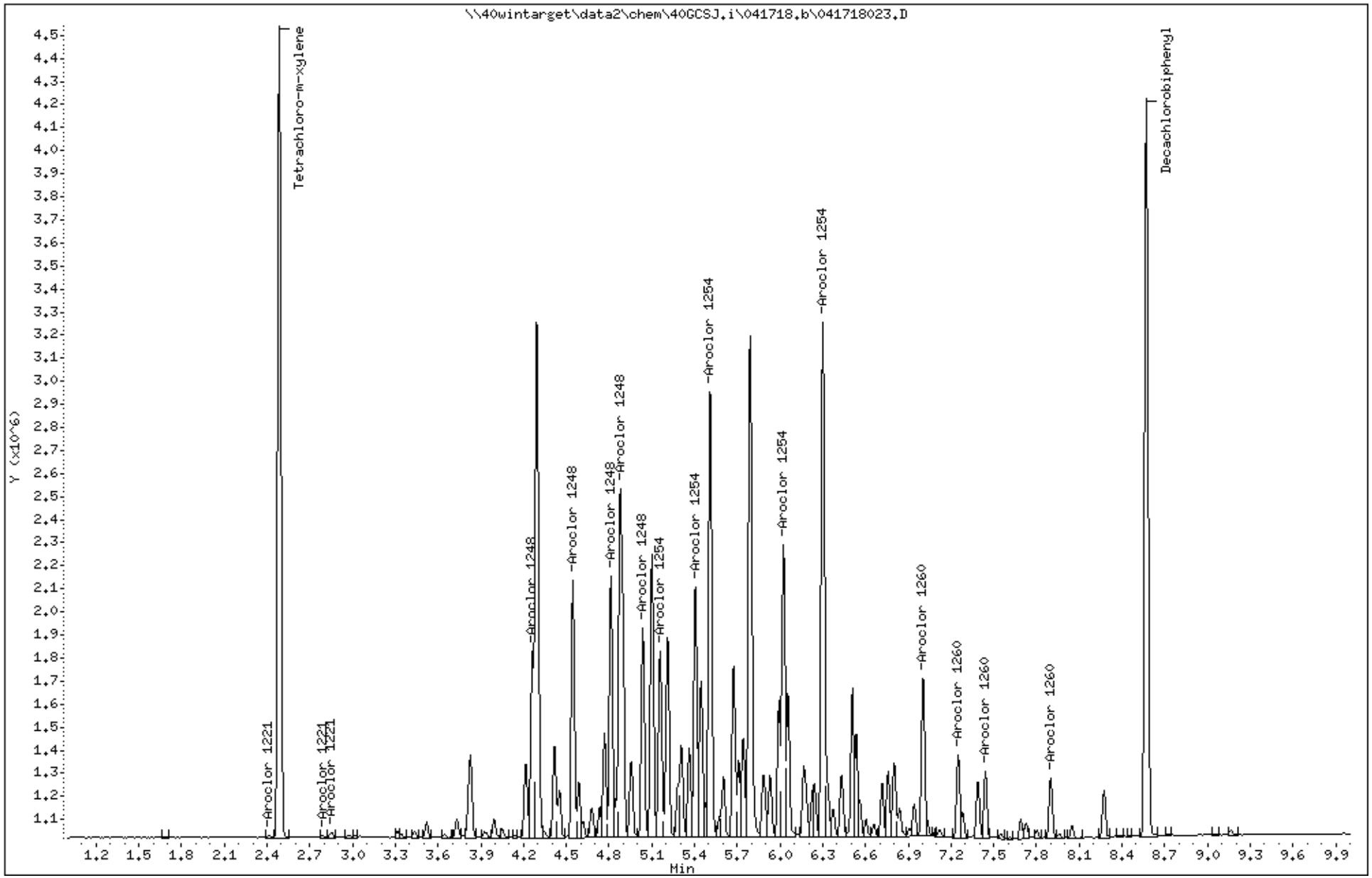
Sample Info: 40157830003 x3,

Volume Injected (uL): 1.0

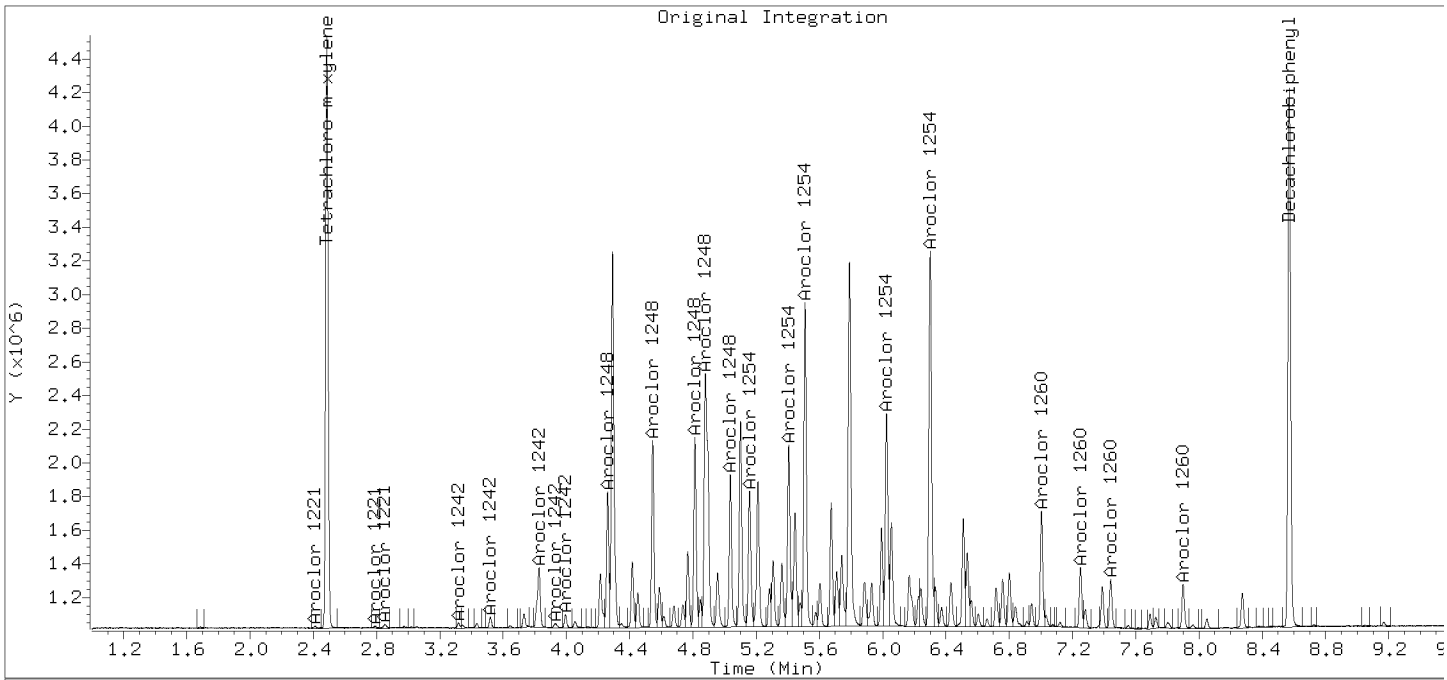
Operator: BLM

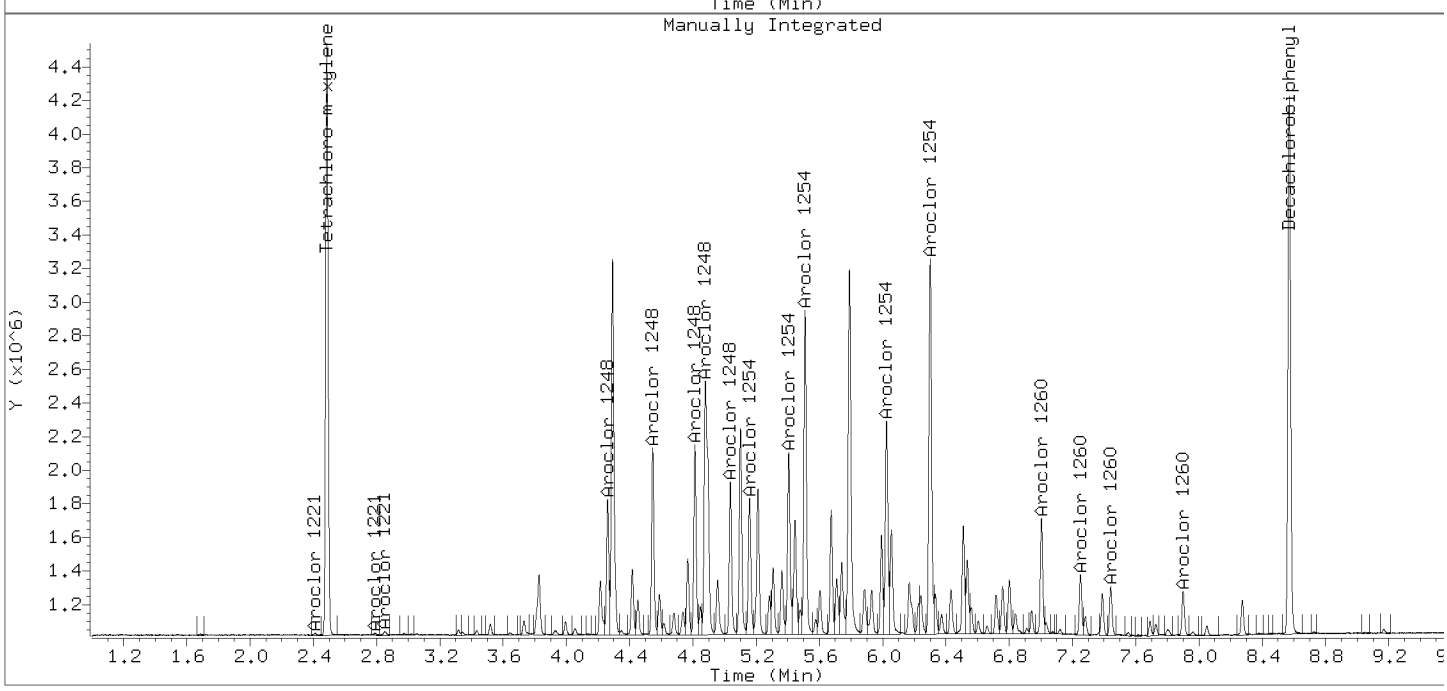
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 16:56 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	36872	0	
Aroclor 1016	36872	0	
Aroclor 1016	36872	0	
Aroclor 1016	36872	0	
Aroclor 1016	36872	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	35440	0	
Aroclor 1232	35440	0	
Aroclor 1232	35440	0	
Aroclor 1232	35440	0	

Aroclor 1232	35440	0	
Aroclor 1242	36872	0	
Aroclor 1242	36872	0	
Aroclor 1242	36872	0	
Aroclor 1242	36872	0	
Aroclor 1242	36872	0	
Aroclor 1248	815211	819282	BA
Aroclor 1248	815211	819282	BA
Aroclor 1248	815211	819282	BA
Aroclor 1248	815211	819282	BA
Aroclor 1248	815211	819282	BA
Aroclor 1254	927250	938942	BA
Aroclor 1254	927250	938942	BA
Aroclor 1254	927250	938942	BA
Aroclor 1254	927250	938942	BA
Aroclor 1254	927250	938942	BA
Aroclor 1260	2692779	0	BA
Aroclor 1260	2692779	0	BA
Aroclor 1260	2692779	0	BA
Aroclor 1260	2692779	0	BA
Aroclor 1260	2692779	0	BA
Tetrachloro-m-xylene	3857689	3857689	
Decachlorobiphenyl	3813961	3813961	

==========

SAMPLE NO.

TD5-170619-01-BB-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/06/2018 07:14
Lab Sample ID: 40157830004
Date Analyzed: 04/10/2018 21:30
Lab File ID: 041018.B\041018035.D
Initial wt/vol: 10.008 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)	<45.6	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	736	
11097-69-1	PCB-1254 (Aroclor 1254)	528	
11096-82-5	PCB-1260 (Aroclor 1260)	198	J
1336-36-3	PCB, Total	1460	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018035.D
Lab Smp Id: 40157830004 Client Smp ID: TD5-170619-01-BB-10
Inj Date : 10-APR-2018 21:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830004 x4,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35
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	10.008	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.484	2521551	2315650	0.918	5.97	$ 2 Tetrachloro-m-xylene	
3.315	9529	8881	0.932	0.02	5 Aroclor 1016	BA
3.431	15567	11421	0.734	0.03		
3.517	24881	24005	0.965	0.05	5 Aroclor 1016	BA
3.642	12038	10256	0.852	0.02		
3.731	73835	62492	0.846	0.17		
3.826	454825	331284	0.728	1.07	5 Aroclor 1016	BA
3.928	29034	19912	0.686	0.06	5 Aroclor 1016	BA
3.995	62054	55413	0.893	0.14	5 Aroclor 1016	BA
4.057	18032	13404	0.743	0.04		
4.214	277428	219888	0.793	0.65		
4.261	523073	510434	0.976	1.23	6 Aroclor 1248	BA
4.291	2381544	2003749	0.841	5.63		
4.417	269478	244904	0.909	0.63		
4.451	122411	108896	0.890	0.28		
4.545	956251	895810	0.937	2.26	6 Aroclor 1248	BA
4.589	253915	199678	0.786	0.60		
4.679	86994	74381	0.855	0.20		
4.735	132472	120354	0.909	0.31		
4.767	494820	448706	0.907	1.17		
4.812	1244004	1158586	0.931	2.94	6 Aroclor 1248	BA
4.846	169722	156722	0.923	0.40		
4.877	2451135	1486898	0.607	5.80	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.954	291241	226536	0.778	0.68	
5.036	1036541	934703	0.902	2.45	6 Aroclor 1248
5.101	1218600	1062699	0.872	2.88	
5.158	793829	686494	0.865	1.87	7 Aroclor 1254
5.211	926050	765403	0.827	2.19	
5.283	210985	208547	0.988	0.49	
5.307	461499	368602	0.799	1.09	
5.362	342233	297331	0.869	0.81	
5.405	1086388	945711	0.871	2.57	7 Aroclor 1254
5.446	752463	615315	0.818	1.78	
5.479	133436	124944	0.936	0.31	
5.508	1923080	1665782	0.866	4.55	7 Aroclor 1254
5.575	89168	79787	0.895	0.21	
5.603	212153	176151	0.830	0.50	
5.675	742613	687901	0.926	1.75	
5.708	356950	285880	0.801	0.84	
5.740	525630	388821	0.740	1.24	
5.790	2680809	2062079	0.769	6.75	
5.884	365603	250336	0.685	0.86	
5.931	293850	236179	0.804	0.69	
5.991	591748	544058	0.919	1.40	
6.024	1412117	1187991	0.841	3.34	7 Aroclor 1254
6.053	678172	553950	0.817	1.60	
6.167	457577	304421	0.665	1.08	
6.225	165069	180404	1.093	0.39	
6.241	250311	204966	0.819	0.59	
6.300	2461377	2005361	0.815	5.82	7 Aroclor 1254
6.331	249189	228788	0.918	0.59	
6.372	139235	112535	0.808	0.32	
6.430	310658	260935	0.840	0.73	
6.509	693399	638839	0.921	1.64	
6.534	453121	401706	0.887	1.07	
6.558	171761	159617	0.929	0.40	
6.604	96362	77749	0.807	0.22	
6.659	53778	48079	0.894	0.12	
6.716	249344	214433	0.860	0.59	
6.757	289604	259172	0.895	0.68	
6.800	366804	329025	0.897	0.86	
6.838	164251	115758	0.705	0.38	
6.912	33274	32112	0.965	0.07	
6.941	174931	159382	0.911	0.41	
7.004	812302	702424	0.865	1.92	8 Aroclor 1260
7.034	64917	67835	1.045	0.15	
7.070	14863	14894	1.002	0.03	
7.122	32070	27961	0.872	0.07	
7.249	397276	360984	0.909	0.94	8 Aroclor 1260
7.281	128080	101640	0.794	0.30	
7.389	301432	257400	0.854	0.71	
7.441	335717	299952	0.893	0.79	8 Aroclor 1260
7.550	27043	22024	0.814	0.06	
7.689	94077	79056	0.840	0.22	
7.727	77452	64296	0.830	0.18	
7.802	60153	35958	0.598	0.14	
7.899	310371	266103	0.857	0.73	8 Aroclor 1260
7.964	30447	23244	0.763	0.07	
8.049	94665	77077	0.814	0.22	
8.272	227112	201877	0.889	0.53	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.570	2675686	2296713	0.858	6.33	$ 12 Decachlorobiphenyl
8.727	21259	11276	0.530	0.05	
9.052	10125	7643	0.755	0.02	
9.165	20165	18014	0.893	0.04	
9.279	9586	5746	0.599	0.02	
	42234594	35512323		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018035.D
Lab Smp Id: 40157830004 Client Smp ID: TD5-170619-01-BB-10
Inj Date : 10-APR-2018 21:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830004 x4,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35
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	10.008	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		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	2521551	0.02045	41			
3 Aroclor 1242						CAS #: 53469-21-9		
Operator disabled compound identification.								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	523072	0.22325	450	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	956250	0.23040	460	0.00- 20.00	182.81	BA
4.811	4.812	-0.001	1244003	0.61279	1200	0.00- 20.00	237.83	BA
4.877	4.879	-0.002	2451134	0.48658	970	0.00- 20.00	468.60	BA
5.036	5.038	-0.002	1036541	0.28885	580	0.00- 20.00	198.16	BA
Average of Peak Concentrations =					740			
7 Aroclor 1254					CAS #: 11097-69-1			
5.157	5.162	-0.005	793829	0.15163	300	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1086387	0.25259	500	0.00- 20.00	136.85	BA
5.508	5.510	-0.002	1923079	0.24763	490	0.00- 20.00	242.25	BA
6.024	6.027	-0.003	1412117	0.28998	580	0.00- 20.00	177.89	BA
6.300	6.299	0.001	2461376	0.37826	760	0.00- 20.00	310.06	BA
Average of Peak Concentrations =					530			
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	812302	0.08111	160	0.00- 20.00	35.59	CO
7.249	7.251	-0.002	397276	0.08312	170	0.00- 20.00	16.14	CO
7.440	7.443	-0.003	335716	0.11516	230	0.00- 20.00	13.64	CO
7.899	7.901	-0.002	310371	0.11762	240	0.00- 20.00	12.61	CO
Average of Peak Concentrations =					200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2675685	0.02442	49			

QC Flag Legend

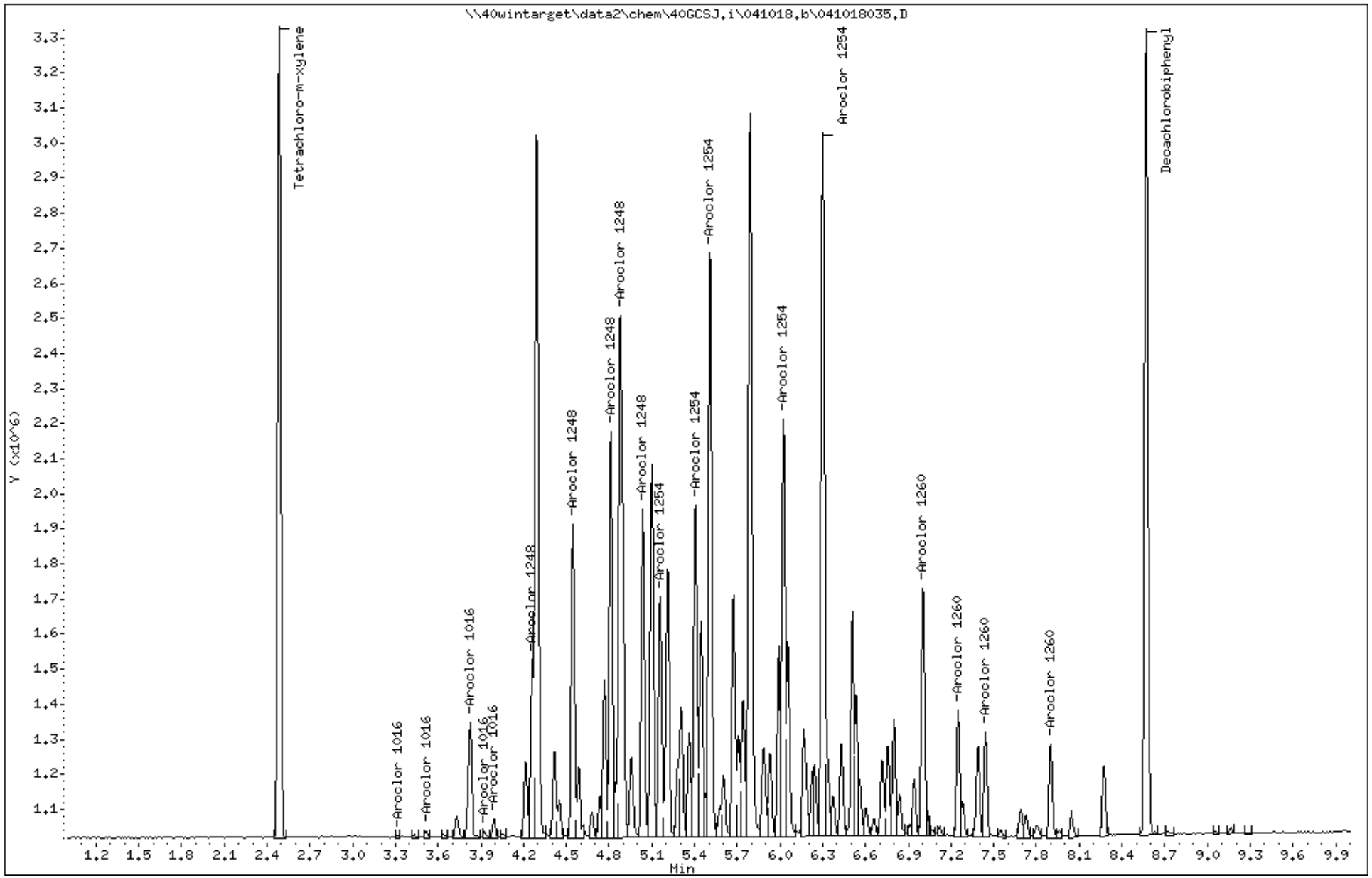
M - Compound response manually integrated.

Review Codes Legend

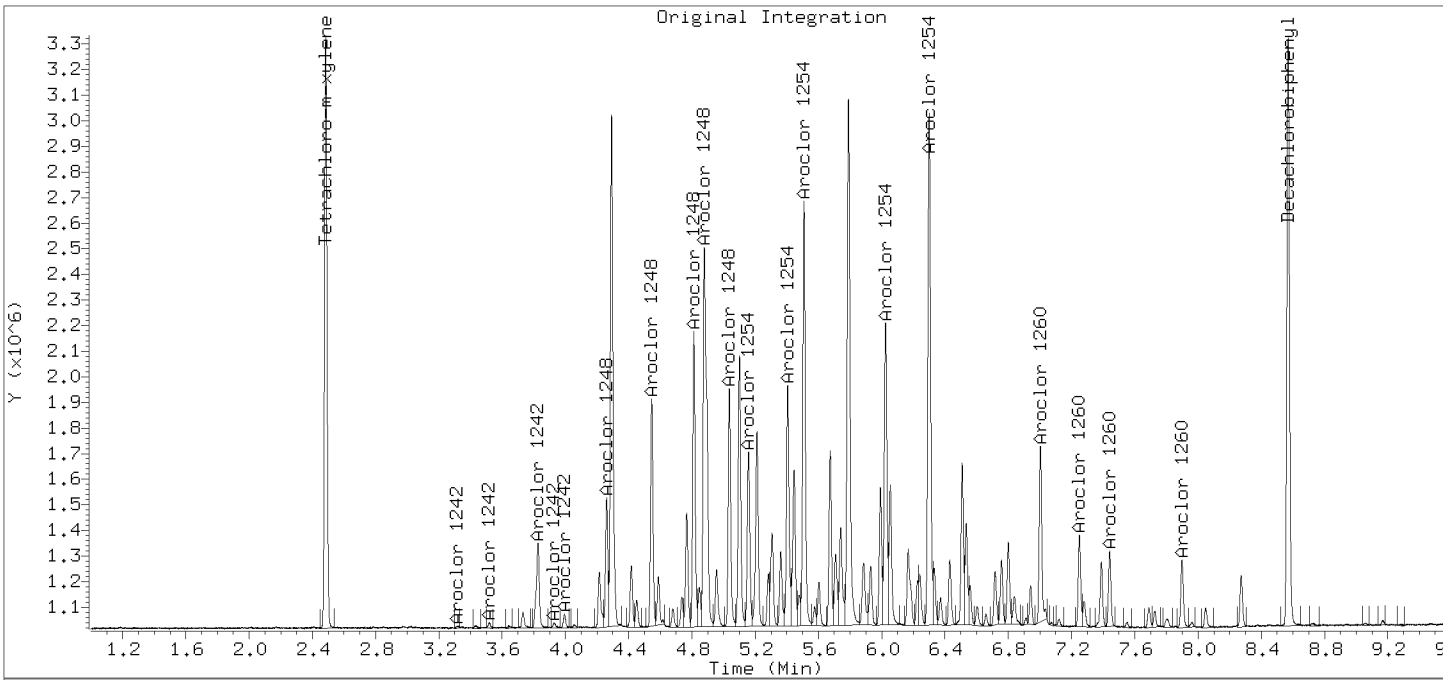
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

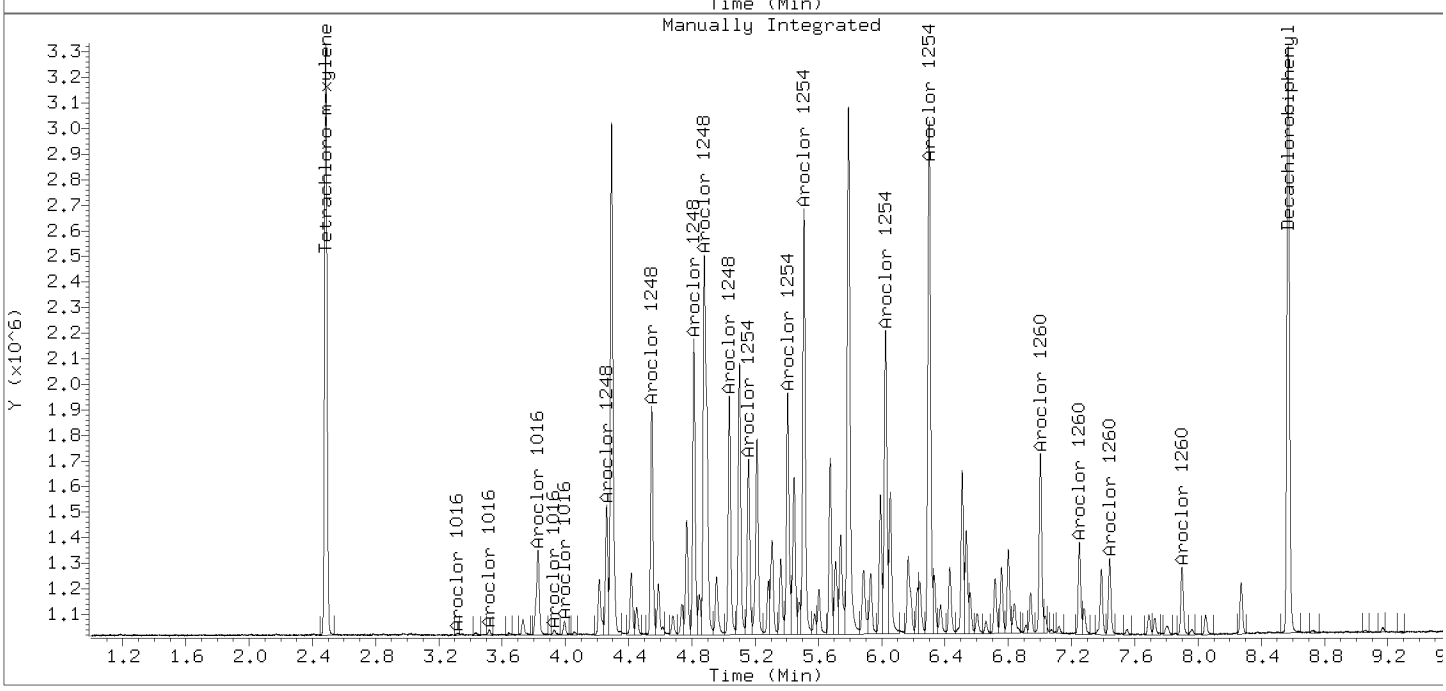
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018035.D
Date : 10-APR-2018 21:30
Client ID: TD5-170619-01-BB-10
Sample Info: 40157830004 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018035.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 21:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830004





Manually Integrated Compounds

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

Aroclor 1232	0	0	
Aroclor 1242	9528	0	
Aroclor 1242	9528	0	
Aroclor 1242	9528	0	
Aroclor 1242	9528	0	
Aroclor 1242	9528	0	
Aroclor 1248	512109	523072	BA
Aroclor 1248	512109	523072	BA
Aroclor 1248	512109	523072	BA
Aroclor 1248	512109	523072	BA
Aroclor 1248	512109	523072	BA
Aroclor 1254	779919	793829	BA
Aroclor 1254	779919	793829	BA
Aroclor 1254	779919	793829	BA
Aroclor 1254	779919	793829	BA
Aroclor 1254	779919	793829	BA
Aroclor 1260	2441001	0	CO
Aroclor 1260	2441001	0	CO
Aroclor 1260	2441001	0	CO
Aroclor 1260	2441001	0	CO
Aroclor 1260	2441001	0	CO
Tetrachloro-m-xylene	2521551	2521551	
Decachlorobiphenyl	2675685	2675685	

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SAMPLE NO.

TD4-170619-01-SMB-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/03/2017 14:25

Matrix: Tissue SDG No.: 40157830

Date Extracted: 04/10/2018 07:13

Lab Sample ID: 40157830005

Date Analyzed: 04/11/2018 19:17

Lab File ID: 041118.B\041118022.D

Initial wt/vol: 10.0055 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)	49.4	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)	426	
11097-69-1	PCB-1254 (Aroclor 1254)	371	
11096-82-5	PCB-1260 (Aroclor 1260)	163	
1336-36-3	PCB, Total	1010	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118022.D
Lab Smp Id: 40157830005 Client Smp ID: TD4-170619-01-SMB-0
Inj Date : 11-APR-2018 19:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830005 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: 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	10.006	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.410	69409	49420	0.712	0.10	1 Aroclor 1221	BA
2.485	5743794	5443278	0.948	9.47	$ 2 Tetrachloro-m-xylene	BA
2.683	18792	10684	0.569	0.02	1 Aroclor 1221	BA
2.789	39321	34012	0.865	0.06	1 Aroclor 1221	BA
2.849	71543	53999	0.755	0.11	1 Aroclor 1221	BA
3.019	23011	23841	1.036	0.03		
3.055	70751	61667	0.872	0.11		
3.317	121301	110126	0.908	0.19		
3.345	99043	87007	0.878	0.15		
3.434	105381	95824	0.909	0.16		
3.518	153246	133736	0.873	0.24		
3.645	24525	19411	0.791	0.03		
3.732	203407	200581	0.986	0.31		
3.754	95543	90565	0.948	0.14		
3.826	843295	473441	0.561	1.32		
3.938	168271	120998	0.719	0.26		
3.994	165154	148215	0.897	0.25		
4.059	85744	71707	0.836	0.13		
4.138	30608	19534	0.638	0.04		
4.214	1378721	1256388	0.911	2.16		
4.261	1334988	1272771	0.953	2.09	6 Aroclor 1248	BA
4.291	1698704	1410648	0.830	2.66		
4.416	518378	488297	0.942	0.81		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	449772	398808	0.887	0.70	
4.545	1018359	919638	0.903	1.59	6 Aroclor 1248
4.588	124441	118234	0.950	0.19	
4.617	120012	103825	0.865	0.18	
4.681	128085	109400	0.854	0.20	
4.735	171877	119374	0.695	0.26	
4.766	268892	255841	0.951	0.42	
4.813	1181295	1123808	0.951	1.85	6 Aroclor 1248
4.847	838535	782929	0.934	1.31	
4.878	2418197	1497062	0.619	3.78	6 Aroclor 1248
4.957	448985	386839	0.862	0.70	
5.037	910933	826344	0.907	1.42	6 Aroclor 1248
5.101	916323	796718	0.869	1.43	
5.161	2016646	1720539	0.853	3.15	7 Aroclor 1254
5.212	1838738	1668340	0.907	2.88	
5.284	174670	161199	0.923	0.27	
5.309	285066	231405	0.812	0.44	
5.362	628023	571139	0.909	0.98	
5.406	1290335	1135013	0.880	2.02	7 Aroclor 1254
5.446	1166015	959532	0.823	1.82	
5.479	136362	127967	0.938	0.21	
5.510	2002290	1726100	0.862	3.13	7 Aroclor 1254
5.577	118210	103990	0.880	0.18	
5.604	272660	238608	0.875	0.42	
5.675	575070	532621	0.926	0.90	
5.712	372362	275578	0.740	0.58	
5.740	572130	418259	0.731	0.89	
5.791	3674643	2839436	0.773	5.75	
5.887	348965	249702	0.716	0.54	
5.931	302957	237736	0.785	0.47	
5.993	718860	656019	0.913	1.12	
6.024	1638589	1467750	0.896	2.56	7 Aroclor 1254
6.055	2765994	2394587	0.866	4.33	
6.168	557478	393245	0.705	0.87	
6.225	258556	273006	1.056	0.40	
6.241	349389	291384	0.834	0.54	
6.299	3749550	3017383	0.805	5.87	7 Aroclor 1254
6.333	412420	367224	0.890	0.64	
6.372	174498	135520	0.777	0.27	
6.433	410021	331885	0.809	0.64	
6.509	1119549	1008737	0.901	1.75	
6.535	707724	662686	0.936	1.10	
6.559	346587	308540	0.890	0.54	
6.604	177895	144413	0.812	0.27	
6.659	77355	64112	0.829	0.12	
6.717	331673	282687	0.852	0.51	
6.757	385355	328360	0.852	0.60	
6.802	602659	541226	0.898	0.94	
6.840	251082	196661	0.783	0.39	
6.912	51482	47631	0.925	0.08	
6.943	265676	243269	0.916	0.41	
7.003	1376936	1253456	0.910	2.15	8 Aroclor 1260
7.035	124386	118372	0.952	0.19	
7.075	21818	21964	1.007	0.03	
7.121	44587	34788	0.780	0.06	
7.251	649681	584229	0.899	1.01	8 Aroclor 1260
7.281	230095	184255	0.801	0.36	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.339	23016	17986	0.781	0.03	
7.389	551874	451691	0.818	0.86	
7.441	574475	497886	0.867	0.90	8 Aroclor 1260
7.551	45759	39982	0.874	0.07	
7.689	162652	144004	0.885	0.25	
7.726	158413	117660	0.743	0.24	
7.804	97866	51964	0.531	0.15	
7.863	13031	13233	1.016	0.02	
7.899	479371	414767	0.865	0.75	8 Aroclor 1260
7.961	58444	36796	0.630	0.09	
8.049	63291	51887	0.820	0.09	
8.274	382222	349544	0.915	0.59	
8.454	16144	11272	0.698	0.02	
8.570	5387413	4596417	0.853	8.44	$ 12 Decachlorobiphenyl
8.639	14811	12895	0.871	0.02	
8.722	17584	14410	0.820	0.02	
9.055	20949	12746	0.608	0.03	
9.168	81553	70220	0.861	0.12	
9.470	25018	14053	0.562	0.03	
9.963	21942	13374	0.610	0.03	
	63829501	54598310		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118022.D
Lab Smp Id: 40157830005 Client Smp ID: TD4-170619-01-SMB-0
Inj Date : 11-APR-2018 19:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830005 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: 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	10.006	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.409	2.407	0.002	69408	0.12669	130	0.00- 20.00	0.00	BA
2.682	2.688	-0.006	18792	0.01358	14	0.00- 20.00	0.00	BA
2.788	2.789	-0.001	39320	0.03556	36	0.00- 20.00	0.00	BA
2.848	2.851	-0.003	71543	0.02198	22	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					49			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5743794	0.04659	46		(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	1334988	0.56978	570	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1018358	0.24537	240	0.00- 20.00	76.28	BA
4.812	4.812	0.000	1181295	0.58190	580	0.00- 20.00	88.49	BA
4.877	4.879	-0.002	2418197	0.48004	480	0.00- 20.00	181.14	BA
5.036	5.038	-0.002	910933	0.25384	250	0.00- 20.00	68.24	BA
Average of Peak Concentrations =					420			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2016646	0.38521	380	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1290335	0.30000	300	0.00- 20.00	63.98	BA
5.509	5.510	-0.001	2002290	0.25783	260	0.00- 20.00	99.29	BA
6.024	6.027	-0.003	1638588	0.33649	340	0.00- 20.00	81.25	BA
6.299	6.299	0.000	3749550	0.57622	580	0.00- 20.00	185.93	BA
Average of Peak Concentrations =					370			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	1376935	0.13750	140	0.00- 20.00	36.72	BA
7.250	7.251	-0.001	649681	0.13592	140	0.00- 20.00	17.33	BA
7.441	7.443	-0.002	574475	0.19707	200	0.00- 20.00	15.32	BA
7.899	7.901	-0.002	479370	0.18167	180	0.00- 20.00	12.78	BA
Average of Peak Concentrations =					160			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5387412	0.04917	49			

QC Flag Legend

M - Compound response manually integrated.

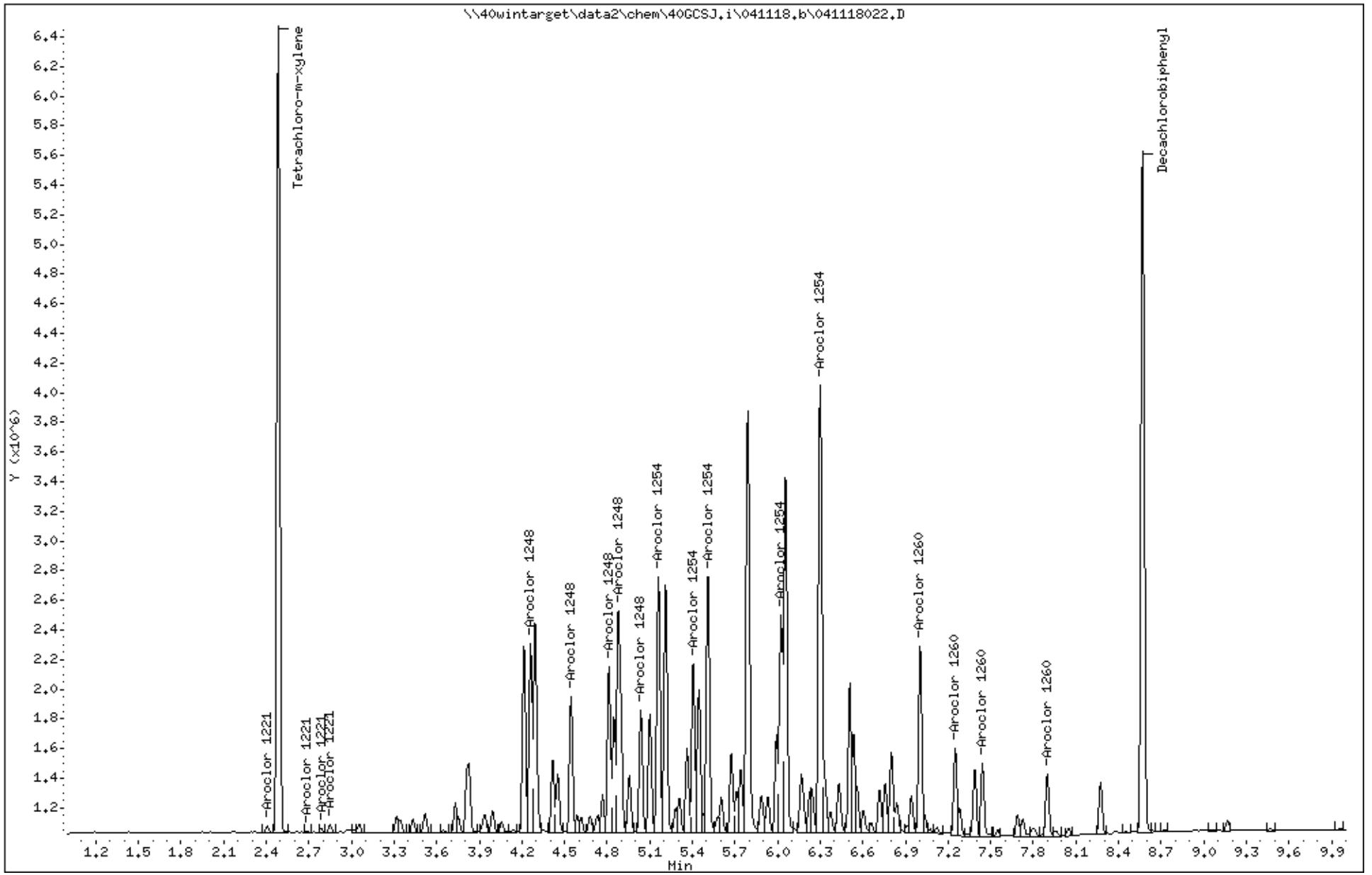
Review Codes Legend

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

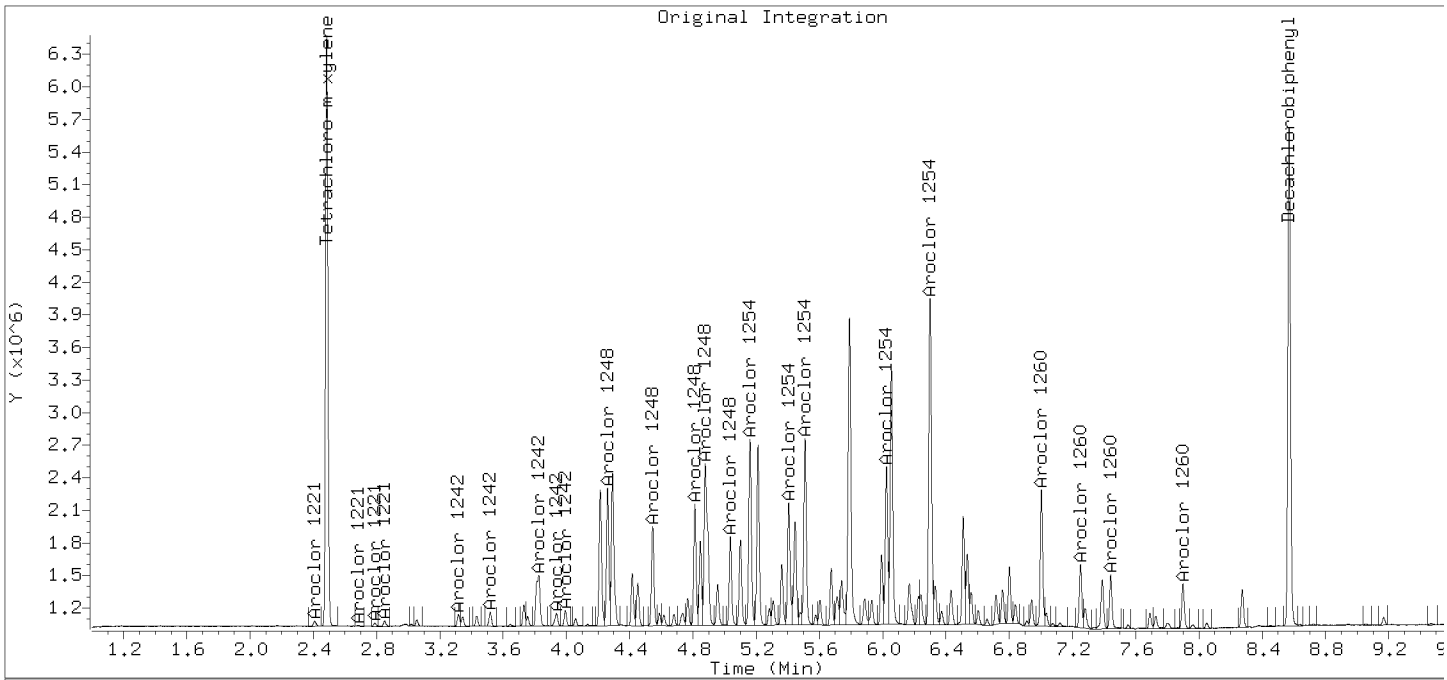
:

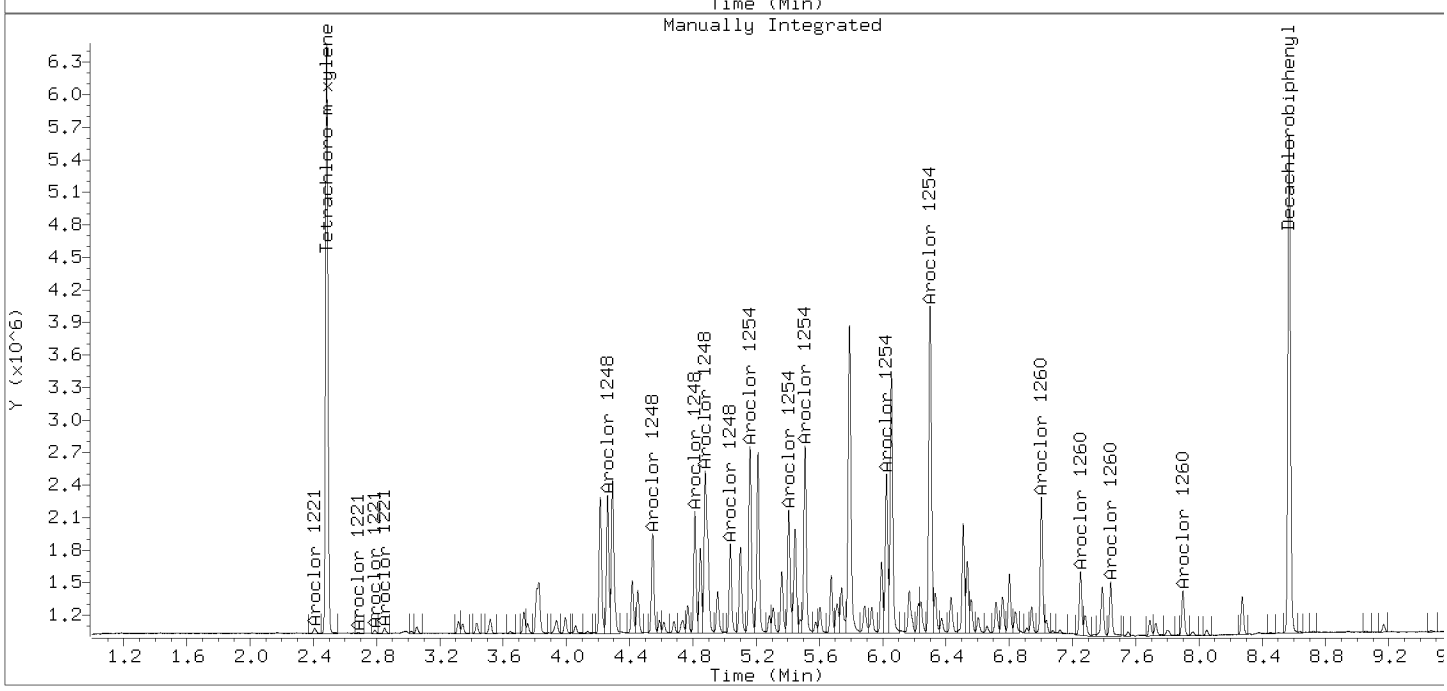
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118022.D
Date : 11-APR-2018 19:17
Client ID: TD4-170619-01-SMB-0
Sample Info: 40157830005 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 19:17 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	119983	0	
Aroclor 1016	119983	0	
Aroclor 1016	119983	0	
Aroclor 1016	119983	0	
Aroclor 1016	119983	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	66401	0	
Aroclor 1232	66401	0	
Aroclor 1232	66401	0	
Aroclor 1232	66401	0	

Aroclor 1232	66401	0	
Aroclor 1242	119983	0	
Aroclor 1242	119983	0	
Aroclor 1242	119983	0	
Aroclor 1242	119983	0	
Aroclor 1242	119983	0	
Aroclor 1248	1319185	1334988	BA
Aroclor 1248	1319185	1334988	BA
Aroclor 1248	1319185	1334988	BA
Aroclor 1248	1319185	1334988	BA
Aroclor 1248	1319185	1334988	BA
Aroclor 1254	1986253	2016646	BA
Aroclor 1254	1986253	2016646	BA
Aroclor 1254	1986253	2016646	BA
Aroclor 1254	1986253	2016646	BA
Aroclor 1254	1986253	2016646	BA
Aroclor 1260	3707720	0	BA
Aroclor 1260	3707720	0	BA
Aroclor 1260	3707720	0	BA
Aroclor 1260	3707720	0	BA
Aroclor 1260	3707720	0	BA
Tetrachloro-m-xylene	5726415	5743794	BA
Decachlorobiphenyl	5387412	5387412	

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SAMPLE NO.

TD4-170619-01-SMB-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/10/2018 07:13
Lab Sample ID: 40157830006
Date Analyzed: 04/11/2018 19:33
Lab File ID: 041118.B\041118023.D
Initial wt/vol: 10.0158 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	35.0	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)	249	
11097-69-1	PCB-1254 (Aroclor 1254)	196	
11096-82-5	PCB-1260 (Aroclor 1260)	58.4	
1336-36-3	PCB, Total	538	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118023.D
Lab Smp Id: 40157830006 Client Smp ID: TD4-170619-01-SMB-0
Inj Date : 11-APR-2018 19:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830006,
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: 23
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	10.016	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.171	13052	12659	0.970	0.01		
2.200	41258	23444	0.568	0.05		
2.293	59205	38063	0.643	0.07		
2.410	112201	83151	0.741	0.14	1 Aroclor 1221	BA
2.485	12036779	11469854	0.953	16.02	$ 2 Tetrachloro-m-xylene	BA
2.684	16036	9857	0.615	0.02	1 Aroclor 1221	BA
2.788	43902	35918	0.818	0.05	1 Aroclor 1221	BA
2.852	79726	66037	0.828	0.10	1 Aroclor 1221	BA
2.972	66022	36311	0.550	0.08		
3.019	34675	31970	0.922	0.04		
3.056	168509	151549	0.899	0.21		
3.318	138342	130430	0.943	0.17		
3.344	158823	144458	0.910	0.20		
3.400	25194	20567	0.816	0.03		
3.433	200453	181364	0.905	0.25		
3.518	260964	226698	0.869	0.33		
3.644	36372	24992	0.687	0.04		
3.693	19856	19758	0.995	0.02		
3.731	172705	177346	1.027	0.22		
3.755	101516	97549	0.961	0.13		
3.826	1080102	645728	0.598	1.38		
3.938	262977	186503	0.709	0.33		
3.994	268029	247780	0.924	0.34		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.058	127937	114305	0.893	0.16	
4.138	35684	31485	0.882	0.04	
4.214	1353269	1246746	0.921	1.73	
4.261	1496676	1413591	0.944	1.91	6 Aroclor 1248
4.292	1863466	1500246	0.805	2.38	
4.417	782357	740879	0.947	1.00	
4.452	645026	590094	0.915	0.82	
4.545	1402952	1294441	0.923	1.79	6 Aroclor 1248
4.587	130499	121031	0.927	0.16	
4.617	193969	164997	0.851	0.24	
4.681	132145	116898	0.885	0.16	
4.734	207598	145471	0.701	0.26	
4.767	305574	282398	0.924	0.39	
4.812	1254889	1184219	0.944	1.60	6 Aroclor 1248
4.848	847071	810201	0.956	1.08	
4.878	2803917	1791512	0.639	3.59	6 Aroclor 1248
4.956	514180	430420	0.837	0.65	
5.036	1216114	1110640	0.913	1.55	6 Aroclor 1248
5.101	995679	858956	0.863	1.27	
5.161	2034680	1738026	0.854	2.60	7 Aroclor 1254
5.211	1801546	1565607	0.869	2.30	
5.282	204338	190051	0.930	0.26	
5.308	347891	282690	0.813	0.44	
5.362	742100	658047	0.887	0.95	
5.406	1504888	1299966	0.864	1.92	7 Aroclor 1254
5.446	1408828	1172828	0.832	1.80	
5.478	149295	145434	0.974	0.19	
5.509	2372247	2055544	0.866	3.04	7 Aroclor 1254
5.577	129426	114837	0.887	0.16	
5.603	388153	330196	0.851	0.49	
5.673	580913	530512	0.913	0.74	
5.710	383944	283950	0.740	0.49	
5.740	572566	419885	0.733	0.73	
5.790	3544785	2759178	0.778	4.54	
5.886	363369	257061	0.707	0.46	
5.931	311236	242019	0.778	0.39	
5.992	675069	631167	0.935	0.86	
6.023	1815430	1566046	0.863	2.32	7 Aroclor 1254
6.055	2385874	2002653	0.839	3.05	
6.119	34147	24697	0.723	0.04	
6.168	583486	429495	0.736	0.74	
6.226	236791	262868	1.110	0.30	
6.241	349930	280019	0.800	0.44	
6.299	3562007	2897072	0.813	4.56	7 Aroclor 1254
6.333	420255	369294	0.879	0.53	
6.372	199037	153228	0.770	0.25	
6.431	377375	299785	0.794	0.48	
6.509	923508	824645	0.893	1.18	
6.535	753055	673764	0.895	0.96	
6.560	285539	269443	0.944	0.36	
6.604	136645	113409	0.830	0.17	
6.659	67958	59166	0.871	0.08	
6.717	316017	271963	0.861	0.40	
6.758	342038	291673	0.853	0.43	
6.800	542954	501399	0.923	0.69	
6.838	216122	169685	0.785	0.27	
6.910	37622	39185	1.042	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.941	372846	334512	0.897	0.47	
7.004	1049654	962317	0.917	1.34	8 Aroclor 1260
7.034	94645	87883	0.929	0.12	
7.073	14645	14665	1.001	0.01	
7.122	29721	27152	0.914	0.03	
7.250	541021	488683	0.903	0.69	8 Aroclor 1260
7.280	185221	151939	0.820	0.23	
7.334	18657	16229	0.870	0.02	
7.389	370410	309196	0.835	0.47	
7.441	387126	329863	0.852	0.49	8 Aroclor 1260
7.552	31757	26716	0.841	0.04	
7.619	22528	13774	0.611	0.02	
7.690	116718	105147	0.901	0.14	
7.726	108456	91075	0.840	0.13	
7.809	112592	76128	0.676	0.14	
7.899	308489	270628	0.877	0.39	8 Aroclor 1260
7.959	45046	28519	0.633	0.05	
8.048	202630	175856	0.868	0.25	
8.274	278050	238588	0.858	0.35	
8.381	25249	16901	0.669	0.03	
8.570	10750498	9674828	0.900	13.77	$ 12 Decachlorobiphenyl
8.724	34739	23915	0.688	0.04	
9.055	25966	21112	0.813	0.03	
9.170	60959	52768	0.866	0.07	
9.463	9739	9327	0.958	0.01	
9.957	14927	13795	0.924	0.01	
	78019050	67748519		100.000	

Total unknown % area = 42

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118023.D
Lab Smp Id: 40157830006 Client Smp ID: TD4-170619-01-SMB-0
Inj Date : 11-APR-2018 19:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830006,
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: 23
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	10.016	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	112200	0.20480	100	0.00- 20.00	0.00	BA
2.683	2.688	-0.005	16035	0.01159	5.8	0.00- 20.00	0.00	BA
2.787	2.789	-0.002	43901	0.03970	20	0.00- 20.00	0.00	BA
2.851	2.851	0.000	79725	0.02449	12	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					35			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	12036778	0.09763	49		(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	1496676	0.63879	320	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1402952	0.33804	170	0.00- 20.00	93.74	BA
4.812	4.812	0.000	1254889	0.61815	310	0.00- 20.00	83.85	BA
4.878	4.879	-0.001	2803916	0.55661	280	0.00- 20.00	187.34	BA
5.036	5.038	-0.002	1216114	0.33889	170	0.00- 20.00	81.25	BA
Average of Peak Concentrations =					250			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2034679	0.38865	190	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1504887	0.34989	170	0.00- 20.00	73.96	BA
5.508	5.510	-0.002	2372246	0.30546	150	0.00- 20.00	116.59	BA
6.023	6.027	-0.004	1815429	0.37280	190	0.00- 20.00	89.22	BA
6.298	6.299	-0.001	3562006	0.54740	270	0.00- 20.00	175.06	BA
Average of Peak Concentrations =					200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	1049653	0.10481	52	0.00- 20.00	29.47	BA
7.250	7.251	-0.001	541020	0.11319	56	0.00- 20.00	15.19	BA
7.441	7.443	-0.002	387126	0.13280	66	0.00- 20.00	10.87	BA
7.898	7.901	-0.003	308488	0.11691	58	0.00- 20.00	8.66	BA
Average of Peak Concentrations =					58			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10750497	0.09812	49			

QC Flag Legend

M - Compound response manually integrated.

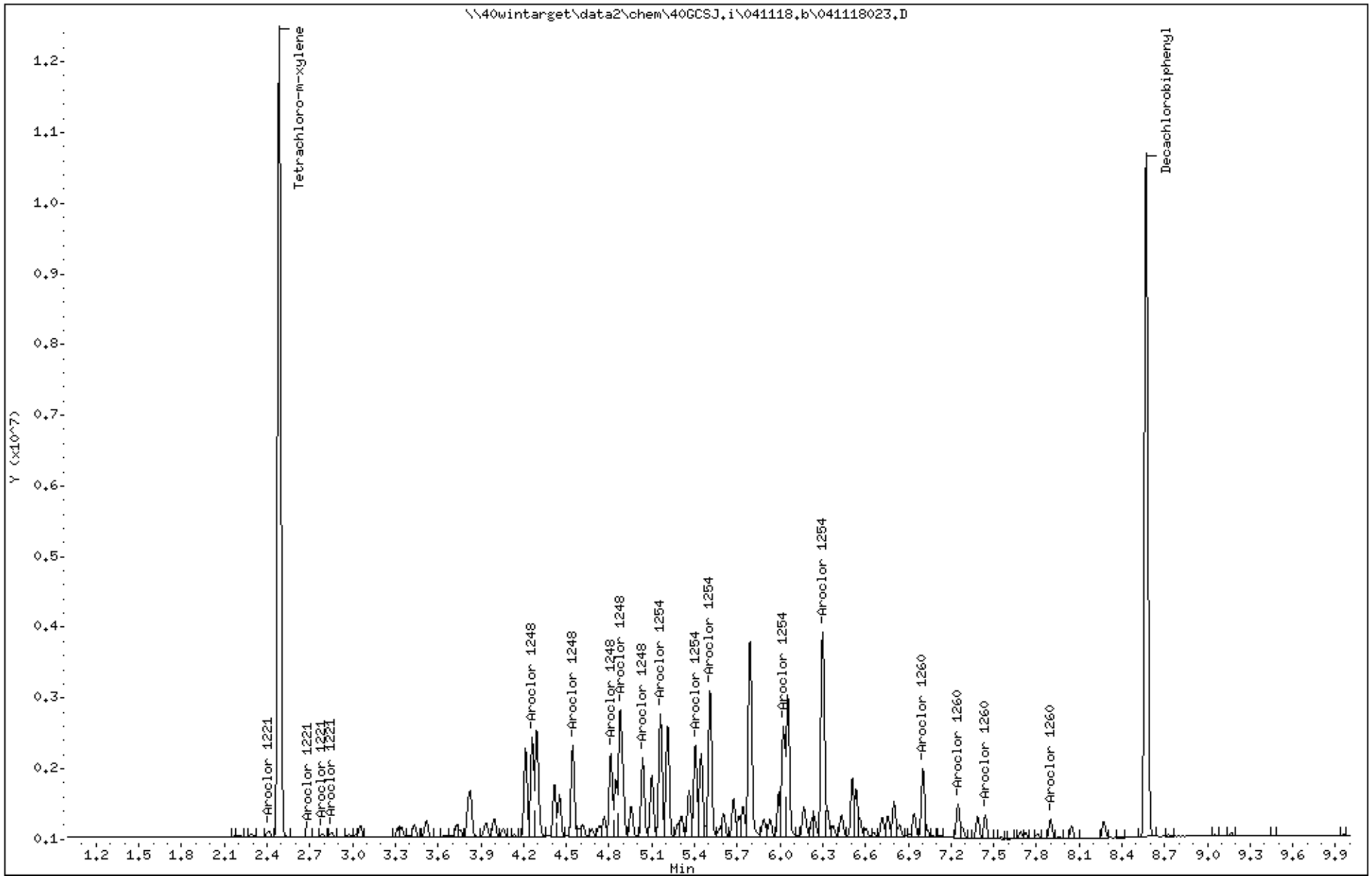
Review Codes Legend

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

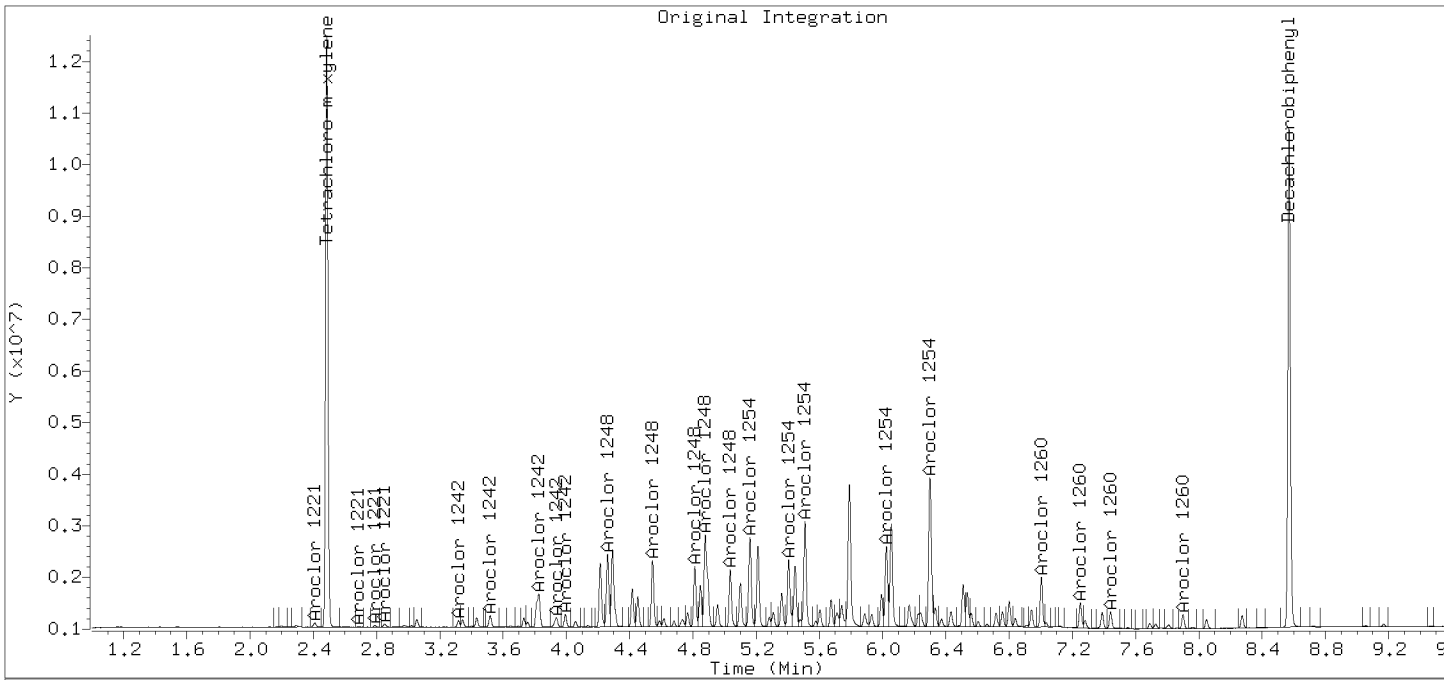
:

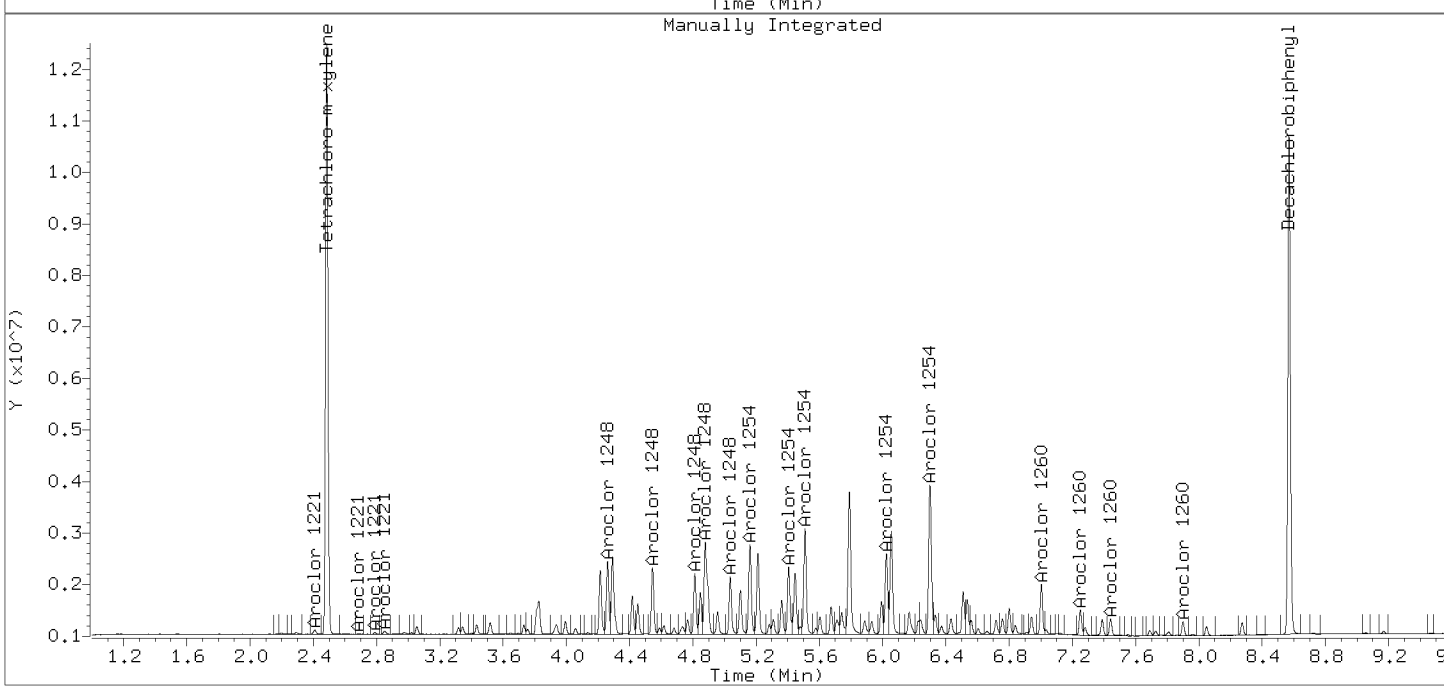
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118023.D
Date : 11-APR-2018 19:33
Client ID: TD4-170619-01-SMB-0
Sample Info: 40157830006,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 19:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	138342	0	
Aroclor 1016	138342	0	
Aroclor 1016	138342	0	
Aroclor 1016	138342	0	
Aroclor 1016	138342	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	74540	0	
Aroclor 1232	74540	0	
Aroclor 1232	74540	0	
Aroclor 1232	74540	0	

Aroclor 1232	74540	0	
Aroclor 1242	138342	0	
Aroclor 1242	138342	0	
Aroclor 1242	138342	0	
Aroclor 1242	138342	0	
Aroclor 1242	138342	0	
Aroclor 1248	1478337	1496676	BA
Aroclor 1248	1478337	1496676	BA
Aroclor 1248	1478337	1496676	BA
Aroclor 1248	1478337	1496676	BA
Aroclor 1248	1478337	1496676	BA
Aroclor 1254	2010061	2034679	BA
Aroclor 1254	2010061	2034679	BA
Aroclor 1254	2010061	2034679	BA
Aroclor 1254	2010061	2034679	BA
Aroclor 1254	2010061	2034679	BA
Aroclor 1260	3537661	0	BA
Aroclor 1260	3537661	0	BA
Aroclor 1260	3537661	0	BA
Aroclor 1260	3537661	0	BA
Aroclor 1260	3537661	0	BA
Tetrachloro-m-xylene	12024294	12036778	BA
Decachlorobiphenyl	10750497	10750497	

==========

SAMPLE NO.

TD4-170619-01-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: 10/03/2017 14:25

Matrix: Tissue SDG No.: 40157830

Date Extracted: 04/10/2018 07:13

Lab Sample ID: 40157830007

Date Analyzed: 04/11/2018 19:49

Lab File ID: 041118.B\041118024.D

Initial wt/vol: 10.0318 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)	<45.5	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.5	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.5	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.5	U
12672-29-6	PCB-1248 (Aroclor 1248)	538	
11097-69-1	PCB-1254 (Aroclor 1254)	734	
11096-82-5	PCB-1260 (Aroclor 1260)	698	
1336-36-3	PCB, Total	1970	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118024.D
Lab Smp Id: 40157830007 Client Smp ID: TD4-170619-01-SMB-0
Inj Date : 11-APR-2018 19:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830007 x4,
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: 24
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	10.032	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.407	15288	12632	0.826	0.02		1 Aroclor 1221	
2.485	2658688	2481261	0.933	3.93	$	2 Tetrachloro-m-xylene	
2.790	10672	10179	0.954	0.01		1 Aroclor 1221	
2.853	15549	13404	0.862	0.02		1 Aroclor 1221	
3.054	25228	18089	0.717	0.03			
3.317	33928	29463	0.868	0.05		5 Aroclor 1016	BA
3.346	32320	28210	0.873	0.04			
3.436	32306	26983	0.835	0.04			
3.519	50349	45550	0.905	0.07		5 Aroclor 1016	BA
3.731	85627	82747	0.966	0.12			
3.755	35027	34587	0.987	0.05			
3.826	340499	201851	0.593	0.50		5 Aroclor 1016	BA
3.939	77342	56039	0.725	0.11		5 Aroclor 1016	BA
3.993	70602	65394	0.926	0.10		5 Aroclor 1016	BA
4.058	36126	31705	0.878	0.05			
4.135	11424	9501	0.832	0.01			
4.215	796730	722922	0.907	1.17			
4.260	738451	716913	0.971	1.09		6 Aroclor 1248	BA
4.292	1256248	1030120	0.820	1.85			
4.417	251576	233445	0.928	0.37			
4.452	229207	210925	0.920	0.33			
4.546	633826	594578	0.938	0.93		6 Aroclor 1248	BA
4.587	164465	152488	0.927	0.24			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.619	58563	48609	0.830	0.08	
4.681	168853	156656	0.928	0.24	
4.737	254459	219188	0.861	0.37	
4.768	292438	276747	0.946	0.43	
4.812	766368	730550	0.953	1.13	6 Aroclor 1248
4.848	363205	339678	0.935	0.53	
4.879	1846402	995349	0.539	2.73	6 Aroclor 1248
4.957	553568	492241	0.889	0.81	
5.037	494401	450694	0.912	0.73	6 Aroclor 1248
5.102	1355222	1211756	0.894	2.00	
5.161	2337059	1922245	0.823	3.45	7 Aroclor 1254
5.211	2108928	1846013	0.875	3.11	
5.284	275038	270441	0.983	0.40	
5.306	465153	389406	0.837	0.68	
5.362	636878	578085	0.908	0.94	
5.407	1516573	1348558	0.889	2.24	7 Aroclor 1254
5.446	1186810	988265	0.833	1.75	
5.478	195361	180190	0.922	0.28	
5.509	2102548	1811446	0.862	3.11	7 Aroclor 1254
5.577	268795	244692	0.910	0.39	
5.603	266198	232093	0.872	0.39	
5.674	1253883	1167821	0.931	1.85	
5.710	583685	465654	0.798	0.86	
5.742	853769	658186	0.771	1.26	
5.789	4527965	3544363	0.783	6.69	
5.885	464520	371594	0.800	0.68	
5.931	605168	530130	0.876	0.89	
5.993	1347757	1237919	0.919	1.99	
6.025	1965821	1670775	0.850	2.90	7 Aroclor 1254
6.055	3594725	3078866	0.856	5.31	
6.168	846730	584053	0.690	1.25	
6.227	379138	379121	1.000	0.56	
6.241	497979	408482	0.820	0.73	
6.301	5212377	4146392	0.795	8.24	8 Aroclor 1260
6.332	538373	494256	0.918	0.79	
6.373	234839	202790	0.864	0.34	
6.432	819687	717794	0.876	1.21	
6.508	2037706	1786177	0.877	3.01	
6.535	857678	821512	0.958	1.26	
6.561	618098	535312	0.866	0.91	
6.604	213990	185983	0.869	0.31	
6.658	115728	104972	0.907	0.17	
6.717	588144	520262	0.885	0.86	
6.758	726007	644765	0.888	1.07	
6.801	878695	807532	0.919	1.29	
6.839	425376	324301	0.762	0.62	
6.912	113058	108535	0.960	0.16	
6.942	389155	356884	0.917	0.57	
7.003	2290100	2016422	0.880	3.38	8 Aroclor 1260
7.034	207820	192638	0.927	0.30	
7.074	48297	44602	0.923	0.07	
7.120	66765	53455	0.801	0.09	
7.251	1063575	964370	0.907	1.57	8 Aroclor 1260
7.281	320971	280731	0.875	0.47	
7.389	1034773	883023	0.853	1.53	
7.442	1047245	953656	0.911	1.54	8 Aroclor 1260
7.552	70207	60163	0.857	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.689	300660	270966	0.901	0.44	
7.727	194361	162896	0.838	0.28	
7.758	14872	13650	0.918	0.02	
7.800	121574	84825	0.698	0.17	
7.864	14969	13287	0.888	0.02	
7.899	926900	820998	0.886	1.37	8 Aroclor 1260
7.963	94894	64530	0.680	0.14	
8.047	110696	93532	0.845	0.16	
8.164	14012	11435	0.816	0.02	
8.244	12202	13526	1.109	0.01	
8.274	672070	587905	0.875	0.99	
8.383	19884	11761	0.591	0.02	
8.454	20797	14705	0.707	0.03	
8.502	10668	9296	0.871	0.01	
8.570	2954501	2392077	0.810	4.37	$ 12 Decachlorobiphenyl
8.632	12958	10697	0.826	0.01	
8.727	19227	15964	0.830	0.02	
9.056	16146	14847	0.920	0.02	
9.168	64594	50924	0.788	0.09	
9.222	12307	8063	0.655	0.01	
9.461	19605	10051	0.513	0.02	
9.960	22141	13204	0.596	0.03	
	67604135	57534518		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118024.D
Lab Smp Id: 40157830007 Client Smp ID: TD4-170619-01-SMB-0
Inj Date : 11-APR-2018 19:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830007 x4,
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: 24
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	10.032	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	2658687	0.02156		43		

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	738451	0.31518	630	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	633825	0.15272	300	0.00- 20.00	85.83	BA
4.812	4.812	0.000	766368	0.37751	750	0.00- 20.00	103.78	BA
4.879	4.879	0.000	1846401	0.36654	730	0.00- 20.00	250.04	BA
5.036	5.038	-0.002	494400	0.13777	270	0.00- 20.00	66.95	BA
			Average of Peak Concentrations =		540			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2337058	0.44641	890	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1516573	0.35260	700	0.00- 20.00	64.89	BA
5.509	5.510	-0.001	2102547	0.27074	540	0.00- 20.00	89.97	BA
6.024	6.027	-0.003	1965820	0.40369	800	0.00- 20.00	84.12	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		730			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	5212377	0.58815	1200	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	2290099	0.22868	460	0.00- 20.00	43.94	BA
7.250	7.251	-0.001	1063574	0.22251	440	0.00- 20.00	20.40	BA
7.441	7.443	-0.002	1047244	0.35925	720	0.00- 20.00	20.09	BA
7.899	7.901	-0.002	926900	0.35127	700	0.00- 20.00	17.78	BA
			Average of Peak Concentrations =		700			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2954501	0.02697	54			

QC Flag Legend

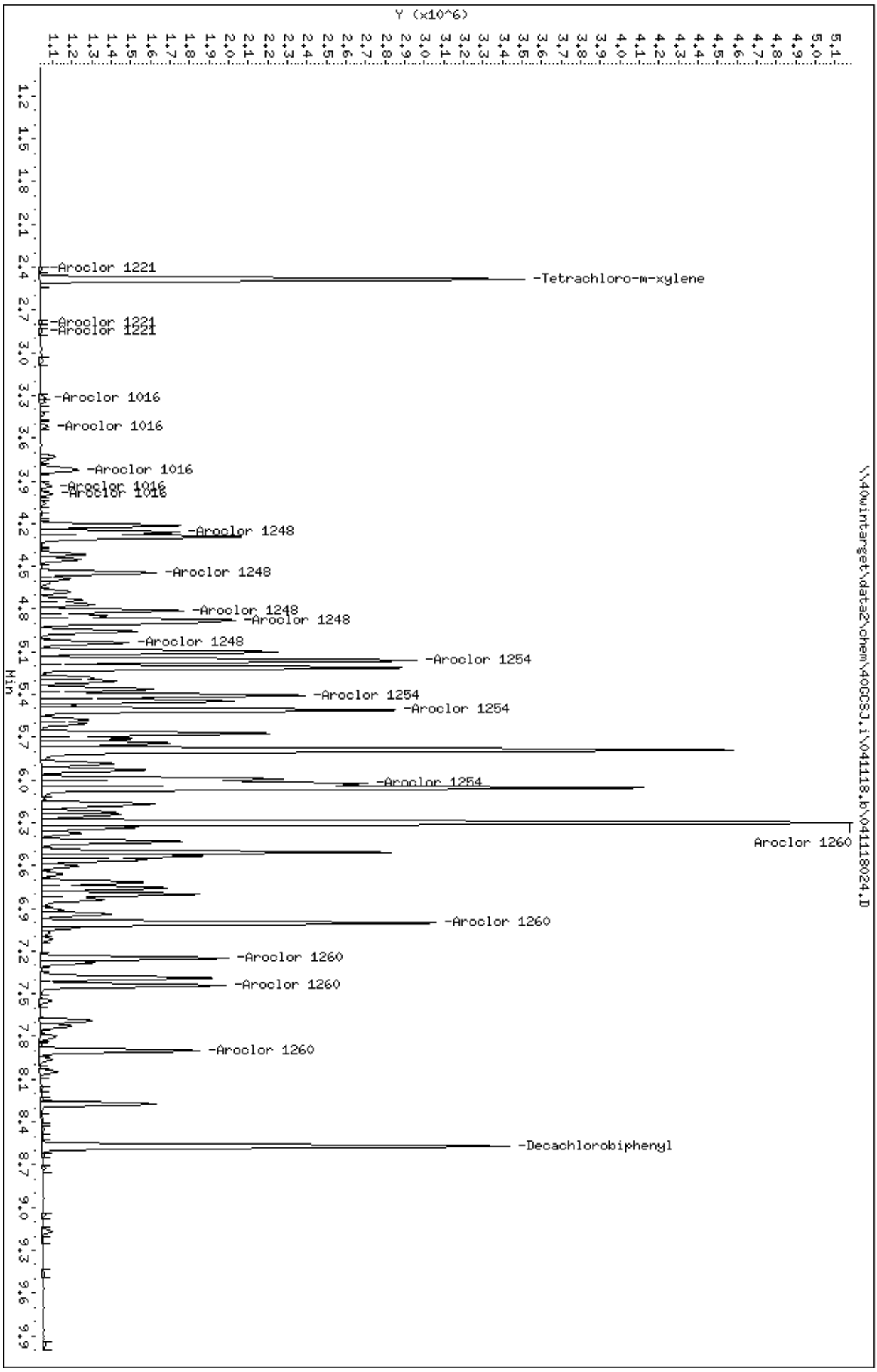
M - Compound response manually integrated.

Review Codes Legend

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

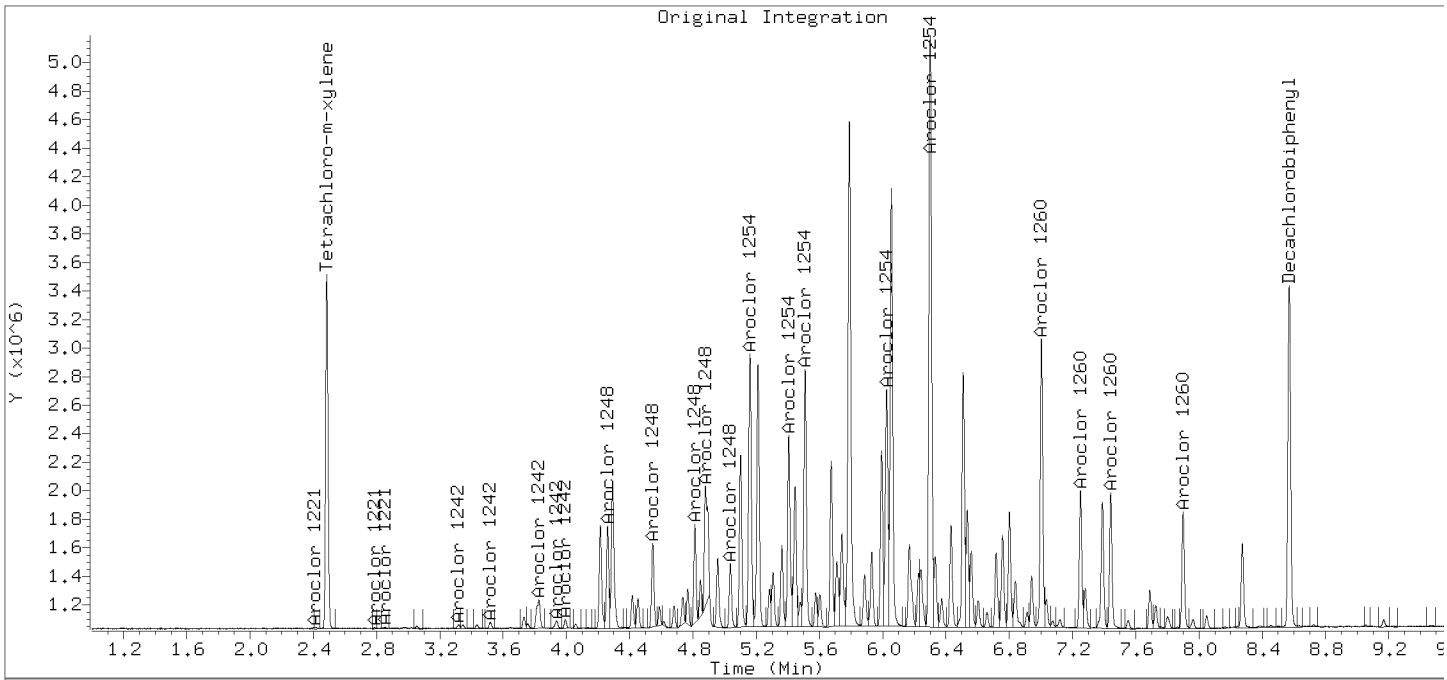
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118024.D
Date : 11-APR-2018 19:49
Client ID: TD4-170619-01-SMB-0
Sample Info: 40157830007 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

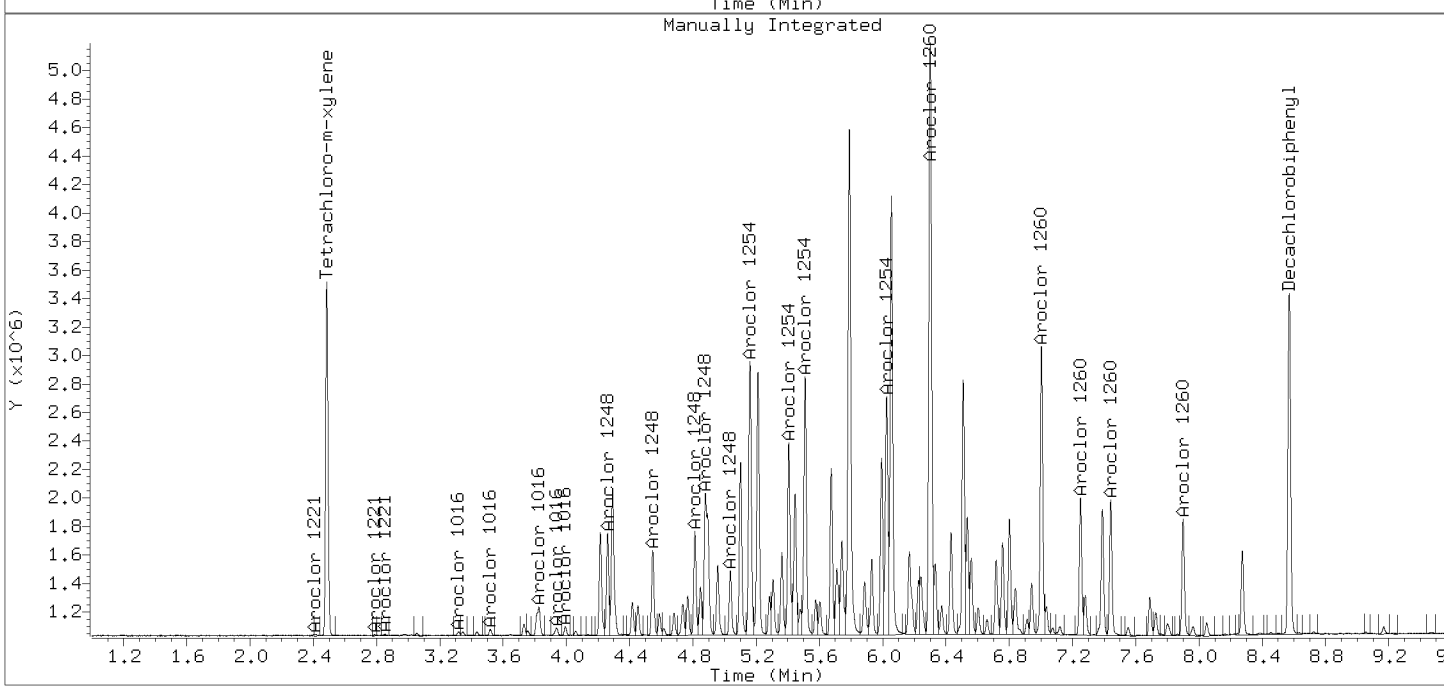
Instrument: 40GCSJ.i
Operator: BLM
Column diameter: 0.18



Page 6

Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 19:49 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830007





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	15549	0	
Aroclor 1232	15549	0	
Aroclor 1232	15549	0	
Aroclor 1232	15549	0	

Aroclor 1232	15549	0	
Aroclor 1242	33927	0	
Aroclor 1242	33927	0	
Aroclor 1242	33927	0	
Aroclor 1242	33927	0	
Aroclor 1242	33927	0	
Aroclor 1248	734406	738451	BA
Aroclor 1248	734406	738451	BA
Aroclor 1248	734406	738451	BA
Aroclor 1248	734406	738451	BA
Aroclor 1248	734406	738451	BA
Aroclor 1254	2304267	2337058	BA
Aroclor 1254	2304267	2337058	BA
Aroclor 1254	2304267	2337058	BA
Aroclor 1254	2304267	2337058	BA
Aroclor 1254	2304267	2337058	BA
Aroclor 1260	5197425	5212377	BA
Aroclor 1260	5197425	5212377	BA
Aroclor 1260	5197425	5212377	BA
Aroclor 1260	5197425	5212377	BA
Aroclor 1260	5197425	5212377	BA
Tetrachloro-m-xylene	2658687	2658687	
Decachlorobiphenyl	2954501	2954501	

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SAMPLE NO.

TD2-170619-01-BB-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/13/2018 07:19
Lab Sample ID: 40157830008
Date Analyzed: 04/17/2018 17:28
Lab File ID: 041718.B\041718025.D
Initial wt/vol: 9.972 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)	110	J
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)	609	
11097-69-1	PCB-1254 (Aroclor 1254)	273	
11096-82-5	PCB-1260 (Aroclor 1260)	62.1	J
1336-36-3	PCB, Total	1050	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718025.D
Lab Smp Id: 40157830008 Client Smp ID: TD2-170619-01-BB-09
Inj Date : 17-APR-2018 17:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830008 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: 25
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	9.972	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.419	10180	7048	0.692	0.02		
2.410	52672	37594	0.714	0.12	1 Aroclor 1221	BA
2.486	3902038	3610589	0.925	10.02	$ 2 Tetrachloro-m-xylene	BA
2.684	25572	20041	0.784	0.06	1 Aroclor 1221	BA
2.790	103317	92171	0.892	0.25	1 Aroclor 1221	BA
2.851	276970	242883	0.877	0.67	1 Aroclor 1221	BA
2.976	44659	27789	0.622	0.10		
3.018	27628	23355	0.845	0.06		
3.056	40327	35918	0.891	0.09		
3.318	529343	486404	0.919	1.29		
3.344	225562	208452	0.924	0.55		
3.434	204459	187268	0.916	0.49		
3.519	578412	539300	0.932	1.41		
3.643	47386	41124	0.868	0.11		
3.732	442901	418712	0.945	1.08		
3.755	132005	129329	0.980	0.32		
3.814	945011	960015	1.016	2.31		
3.825	820136	907291	1.106	2.00		
3.939	201725	140253	0.695	0.49		
3.993	251977	234338	0.930	0.61		
4.058	175996	136246	0.774	0.43		
4.136	46950	41043	0.874	0.11		
4.214	1292418	1151888	0.891	3.15		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.260	1444649	1372707	0.950	3.53	6 Aroclor 1248
4.292	1750946	1467182	0.838	4.28	
4.347	57861	43121	0.745	0.14	
4.418	632566	592507	0.937	1.54	
4.452	416386	364258	0.875	1.01	
4.546	1377503	1278854	0.928	3.36	6 Aroclor 1248
4.590	99435	89051	0.896	0.24	
4.617	180033	155021	0.861	0.44	
4.681	77210	64802	0.839	0.18	
4.736	86720	61990	0.715	0.21	
4.767	226042	208019	0.920	0.55	
4.812	913009	847367	0.928	2.23	6 Aroclor 1248
4.848	457613	427052	0.933	1.11	
4.879	1912335	1224726	0.640	4.67	6 Aroclor 1248
4.956	262827	225110	0.856	0.64	
5.037	884554	796398	0.900	2.16	6 Aroclor 1248
5.100	684590	584165	0.853	1.67	
5.162	735196	630398	0.857	1.79	7 Aroclor 1254
5.212	756423	677929	0.896	1.84	
5.284	100942	102258	1.013	0.24	
5.308	220022	180489	0.820	0.53	
5.363	375127	338957	0.904	0.91	
5.407	780683	676836	0.867	1.90	7 Aroclor 1254
5.447	675716	581280	0.860	1.65	
5.478	96776	88077	0.910	0.23	
5.509	1436143	1245977	0.868	3.51	7 Aroclor 1254
5.578	44770	40070	0.895	0.10	
5.603	251736	220123	0.874	0.61	
5.676	302939	274274	0.905	0.74	
5.710	190319	152745	0.803	0.46	
5.741	275495	194804	0.707	0.67	
5.791	1561767	1194144	0.765	3.81	
5.886	188998	138594	0.733	0.46	
5.930	130435	84504	0.648	0.31	
5.993	239342	218543	0.913	0.58	
6.025	929428	795802	0.856	2.27	7 Aroclor 1254
6.055	649376	566503	0.872	1.58	
6.168	259073	171082	0.660	0.63	
6.227	103524	103622	1.001	0.25	
6.242	137806	112814	0.819	0.33	
6.300	1368249	1113773	0.814	3.34	7 Aroclor 1254
6.334	179392	159732	0.890	0.43	
6.372	83540	69396	0.831	0.20	
6.431	135007	100401	0.744	0.33	
6.510	309668	296461	0.957	0.75	
6.536	326586	278339	0.852	0.79	
6.560	93459	88537	0.947	0.22	
6.606	52746	40268	0.763	0.12	
6.662	32892	27759	0.844	0.08	
6.717	135387	117939	0.871	0.33	
6.759	152354	134764	0.885	0.37	
6.802	213802	191749	0.897	0.52	
6.841	72633	55683	0.767	0.17	
6.910	14174	14415	1.017	0.03	
6.942	134610	121626	0.904	0.32	
7.004	339601	303923	0.895	0.83	8 Aroclor 1260
7.033	27070	30946	1.143	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.123	28938	18287	0.632	0.07	
7.251	211716	179880	0.850	0.51	8 Aroclor 1260
7.281	80756	59369	0.735	0.19	
7.336	24034	13349	0.555	0.05	
7.389	121247	106309	0.877	0.29	
7.443	144804	117594	0.812	0.35	8 Aroclor 1260
7.554	13121	10435	0.795	0.03	
7.691	43045	41160	0.956	0.10	
7.728	42734	34625	0.810	0.10	
7.810	59051	33147	0.561	0.14	
7.900	98320	87953	0.895	0.24	8 Aroclor 1260
8.048	90700	79941	0.881	0.22	
8.273	103150	88252	0.856	0.25	
8.376	17548	9769	0.557	0.04	
8.442	10420	7463	0.716	0.02	
8.570	3743464	3162915	0.845	9.15	$ 12 Decachlorobiphenyl
8.728	17630	11163	0.633	0.04	
9.052	12849	8575	0.667	0.03	
9.170	39034	31965	0.819	0.09	
9.839	19931	16977	0.852	0.04	
9.860	28376	17389	0.613	0.06	
	40905999	35553434		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718025.D
Lab Smp Id: 40157830008 Client Smp ID: TD2-170619-01-BB-09
Inj Date : 17-APR-2018 17:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830008 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: 25
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	9.972	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.409	2.407	0.002	52671	0.09614	140	0.00- 20.00	0.00	BA
2.684	2.688	-0.004	25571	0.01849	28	0.00- 20.00	0.00	BA
2.789	2.789	0.000	103316	0.09343	140	0.00- 20.00	0.00	BA
2.850	2.851	-0.001	276970	0.08508	130	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					110			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	3902037	0.03165	48		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1444648	0.61659	930	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1377502	0.33190	500	0.00- 20.00	95.35	BA
4.812	4.812	0.000	913009	0.44974	680	0.00- 20.00	63.20	BA
4.879	4.879	0.000	1912335	0.37962	570	0.00- 20.00	132.37	BA
5.037	5.038	-0.001	884553	0.24649	370	0.00- 20.00	61.23	BA
Average of Peak Concentrations =					610			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	735196	0.14043	210	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	780683	0.18151	270	0.00- 20.00	106.19	BA
5.508	5.510	-0.002	1436143	0.18493	280	0.00- 20.00	195.34	BA
6.024	6.027	-0.003	929427	0.19086	290	0.00- 20.00	126.42	BA
6.299	6.299	0.000	1368249	0.21027	320	0.00- 20.00	186.11	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)	CO
7.003	7.006	-0.003	339600	0.03391	51	0.00- 20.00	26.76	CO
7.251	7.251	0.000	211715	0.04429	67	0.00- 20.00	15.47	CO
7.443	7.443	0.000	144803	0.04967	75	0.00- 20.00	10.58	CO
7.899	7.901	-0.002	98319	0.03726	56	0.00- 20.00	7.19	CO
Average of Peak Concentrations =					62			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3743464	0.03417	51			

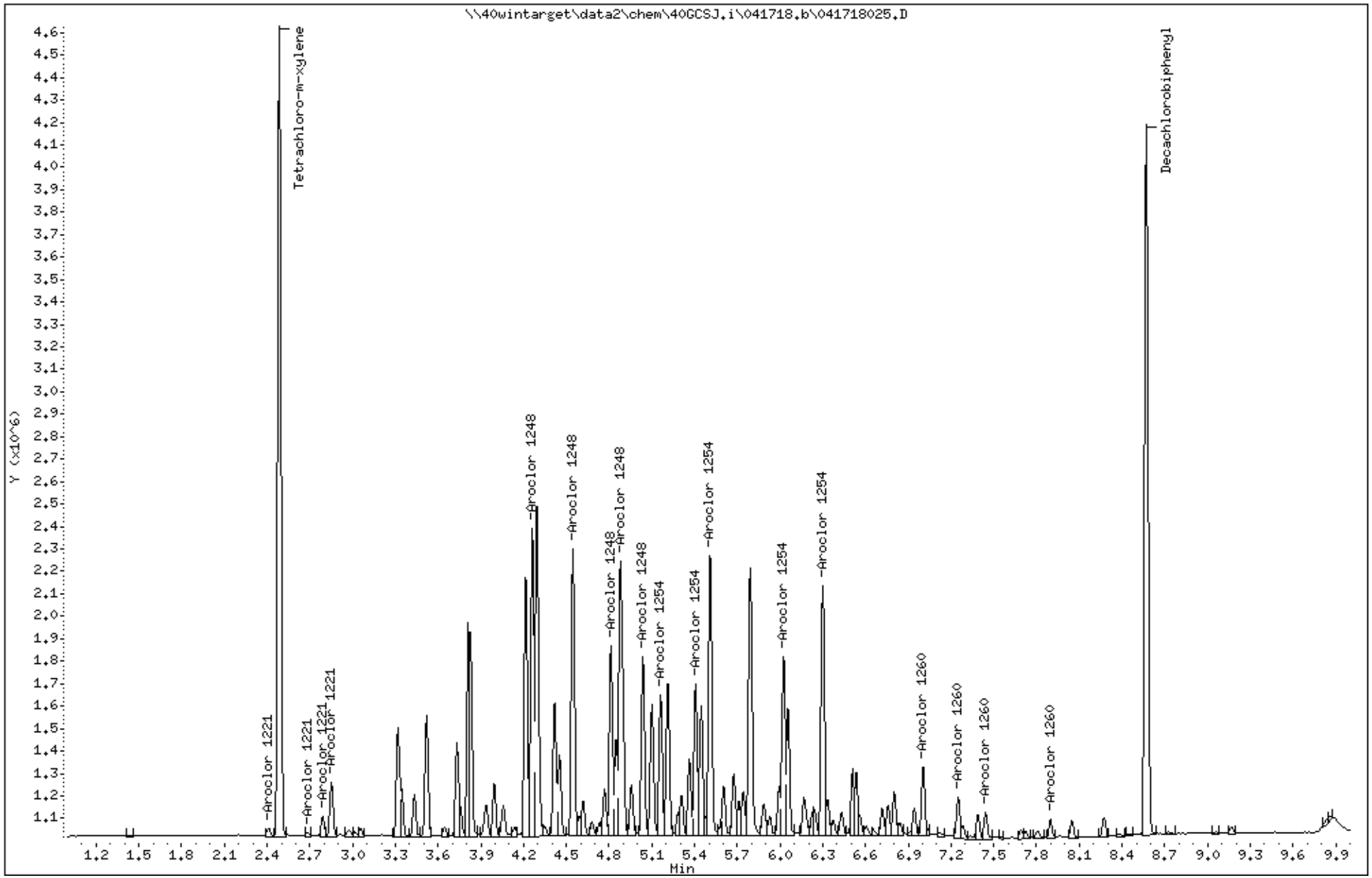
QC Flag Legend

M - Compound response manually integrated.

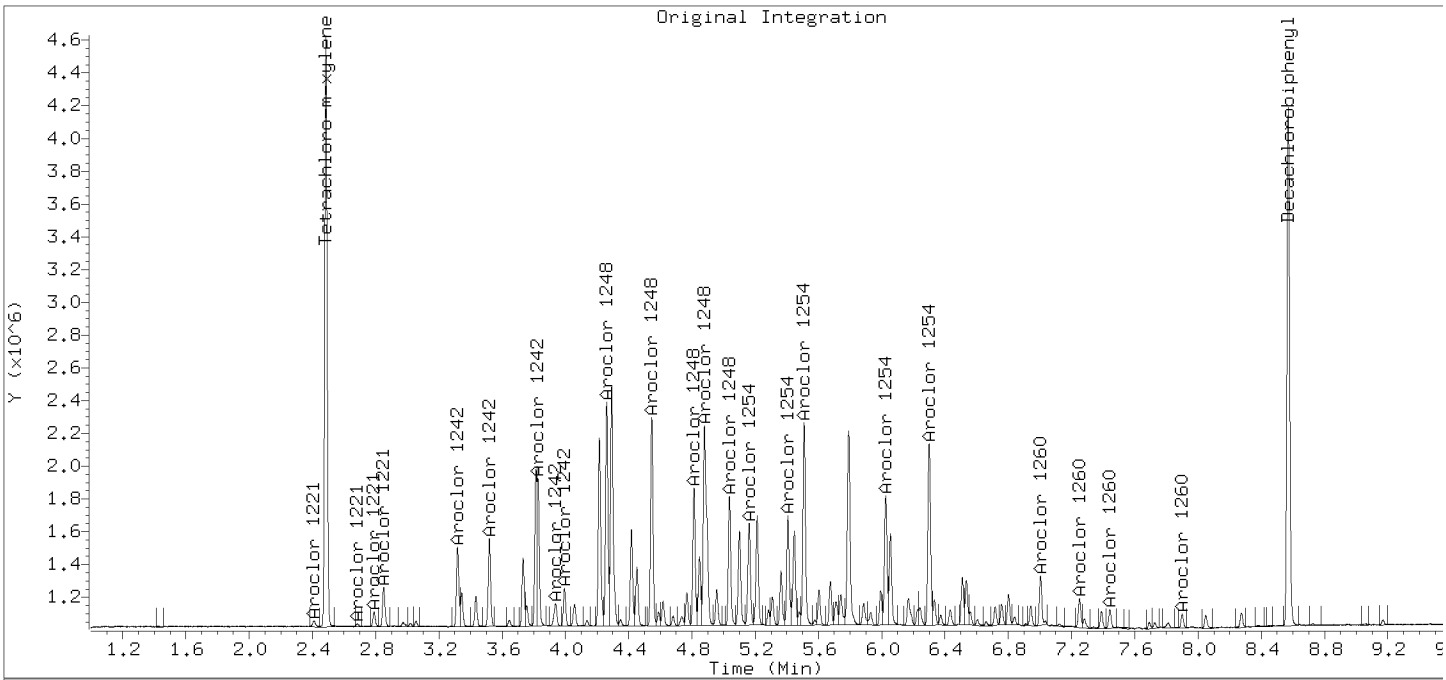
Review Codes Legend

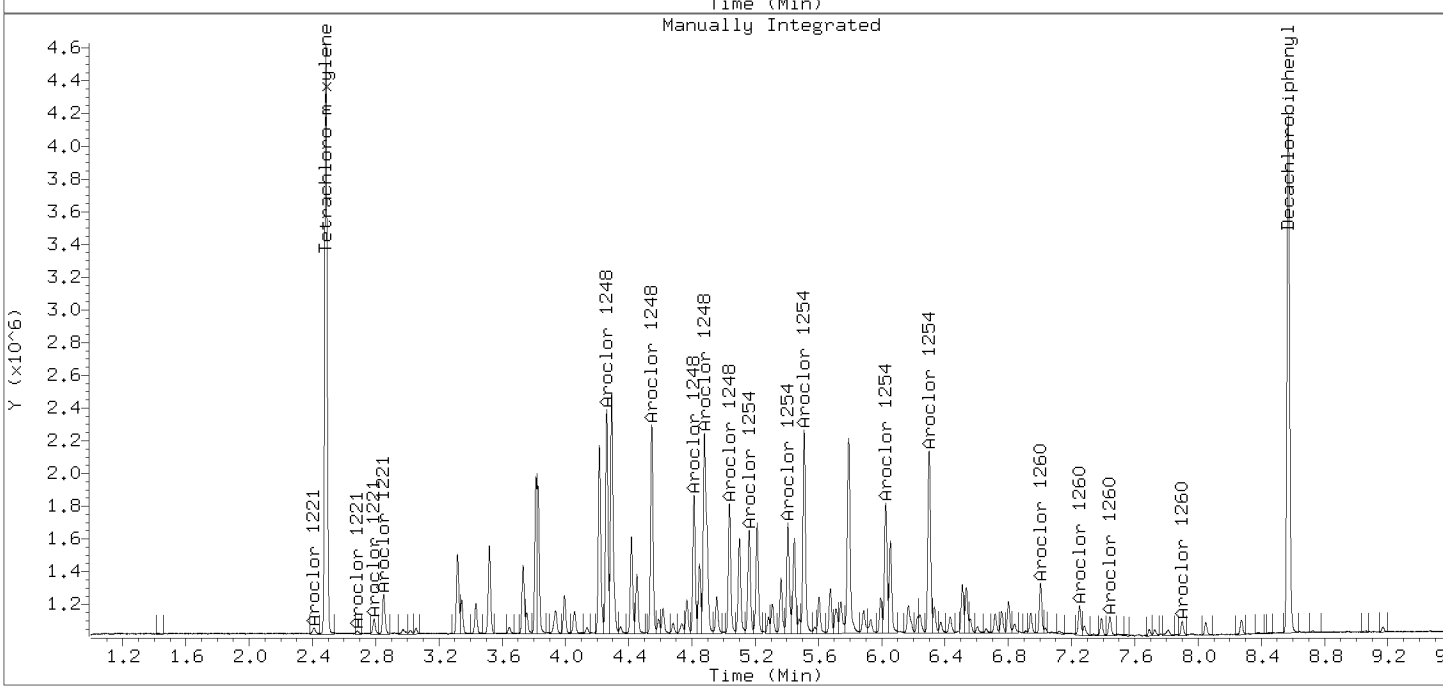
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718025.D
Date : 17-APR-2018 17:28
Client ID: TD2-170619-01-BB-09
Instrument: 40GCSJ.i
Sample Info: 40157830008 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/041718025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 17:28 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	527520	0	
Aroclor 1016	527520	0	
Aroclor 1016	527520	0	
Aroclor 1016	527520	0	
Aroclor 1016	527520	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	265402	0	
Aroclor 1232	265402	0	
Aroclor 1232	265402	0	
Aroclor 1232	265402	0	

Aroclor 1232	265402	0	
Aroclor 1242	527520	0	
Aroclor 1242	527520	0	
Aroclor 1242	527520	0	
Aroclor 1242	527520	0	
Aroclor 1242	527520	0	
Aroclor 1248	1433792	1444648	BA
Aroclor 1248	1433792	1444648	BA
Aroclor 1248	1433792	1444648	BA
Aroclor 1248	1433792	1444648	BA
Aroclor 1248	1433792	1444648	BA
Aroclor 1254	708900	735196	BA
Aroclor 1254	708900	735196	BA
Aroclor 1254	708900	735196	BA
Aroclor 1254	708900	735196	BA
Aroclor 1254	708900	735196	BA
Aroclor 1260	1347409	0	CO
Aroclor 1260	1347409	0	CO
Aroclor 1260	1347409	0	CO
Aroclor 1260	1347409	0	CO
Aroclor 1260	1347409	0	CO
Tetrachloro-m-xylene	3894483	3902037	BA
Decachlorobiphenyl	3743464	3743464	

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SAMPLE NO.

TD2-170619-01-BB-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/13/2018 07:19
Lab Sample ID: 40157830009
Date Analyzed: 04/17/2018 17:44
Lab File ID: 041718.B\041718026.D
Initial wt/vol: 9.9763 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)	1010	
11097-69-1	PCB-1254 (Aroclor 1254)	527	
11096-82-5	PCB-1260 (Aroclor 1260)	112	J
1336-36-3	PCB, Total	1650	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718026.D
Lab Smp Id: 40157830009 Client Smp ID: TD2-170619-01-BB-08
Inj Date : 17-APR-2018 17:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830009 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: 26
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	9.976	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.030	9811	6572	0.670	0.01		
2.411	33495	23982	0.716	0.05		
2.485	3900776	3607340	0.925	7.12	$ 2 Tetrachloro-m-xylene	
2.788	14787	10073	0.681	0.02		
2.850	32016	23938	0.748	0.05		
2.974	49657	34652	0.698	0.08		
3.017	30116	29447	0.978	0.05		
3.057	12522	11783	0.941	0.02		
3.318	71354	66618	0.934	0.12		
3.344	34373	26565	0.773	0.05		
3.433	76412	64699	0.847	0.12		
3.519	178245	164240	0.921	0.30		
3.644	42821	35259	0.823	0.07		
3.730	203759	171631	0.842	0.34		
3.826	1943959	1336278	0.687	3.29		
3.930	96597	58694	0.608	0.16		
3.994	309725	293666	0.948	0.52		
4.058	103415	82873	0.801	0.17		
4.136	26347	21039	0.799	0.04		
4.215	849640	748257	0.881	1.44		
4.261	1466006	1434505	0.979	2.48	6 Aroclor 1248	BA
4.292	2719072	2263929	0.833	4.61		
4.416	1021249	982868	0.962	1.73		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.451	482113	428728	0.889	0.81	
4.545	1897755	1734277	0.914	3.21	6 Aroclor 1248
4.588	147303	139221	0.945	0.24	
4.617	188874	161450	0.855	0.32	
4.679	87377	74503	0.853	0.14	
4.736	119342	94963	0.796	0.20	
4.768	420547	401184	0.954	0.71	
4.812	1982617	1850348	0.933	3.36	6 Aroclor 1248
4.848	786003	755344	0.961	1.33	
4.878	3883930	2872354	0.740	6.58	6 Aroclor 1248
4.957	369882	308916	0.835	0.62	
5.037	1876125	1752515	0.934	3.18	6 Aroclor 1248
5.100	1097542	919807	0.838	1.86	
5.161	1291159	1109695	0.859	2.18	7 Aroclor 1254
5.212	1390024	1190043	0.856	2.35	
5.283	179684	178147	0.991	0.30	
5.307	393933	325059	0.825	0.66	
5.362	662841	587059	0.886	1.12	
5.406	1515092	1304385	0.861	2.56	7 Aroclor 1254
5.446	1215813	1020857	0.840	2.06	
5.480	82107	107392	1.308	0.13	
5.509	2627817	2270069	0.864	4.45	7 Aroclor 1254
5.577	77998	65893	0.845	0.13	
5.604	424267	371102	0.875	0.71	
5.674	380106	354983	0.934	0.64	
5.710	353701	272201	0.770	0.59	
5.741	554606	410841	0.741	0.94	
5.790	3255598	2605848	0.800	5.52	
5.887	405976	264733	0.652	0.68	
5.930	200301	163371	0.816	0.33	
5.992	481965	459241	0.953	0.81	
6.023	2026806	1766104	0.871	3.43	7 Aroclor 1254
6.055	1166344	989351	0.848	1.97	
6.168	467729	349536	0.747	0.79	
6.226	188009	206024	1.096	0.31	
6.240	266583	221220	0.830	0.45	
6.299	2603755	2056425	0.790	4.41	7 Aroclor 1254
6.332	312359	284436	0.911	0.52	
6.372	155415	130444	0.839	0.26	
6.433	243184	189010	0.777	0.41	
6.508	673790	610793	0.907	1.14	
6.535	529713	470532	0.888	0.89	
6.559	157863	154116	0.976	0.26	
6.605	116899	87822	0.751	0.19	
6.661	54655	49210	0.900	0.09	
6.718	266780	239496	0.898	0.45	
6.758	264738	233375	0.882	0.44	
6.801	406609	368942	0.907	0.68	
6.839	155906	115946	0.744	0.26	
6.910	22388	23378	1.044	0.03	
6.942	279142	254111	0.910	0.47	
7.004	667050	623548	0.935	1.13	8 Aroclor 1260
7.033	63818	62194	0.975	0.10	
7.073	6960	9884	1.420	0.01	
7.121	35225	26952	0.765	0.05	
7.250	340792	299230	0.878	0.57	8 Aroclor 1260
7.280	128046	104653	0.817	0.21	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.329	16486	12796	0.776	0.02	
7.389	217903	200461	0.920	0.36	
7.442	250580	219189	0.875	0.42	8 Aroclor 1260
7.486	25839	11306	0.438	0.04	
7.552	23724	18253	0.769	0.04	
7.691	62247	60650	0.974	0.10	
7.725	67855	57858	0.853	0.11	
7.810	97611	67554	0.692	0.16	
7.898	195657	169111	0.864	0.33	8 Aroclor 1260
7.963	30866	18315	0.593	0.05	
8.048	237341	202570	0.853	0.40	
8.137	24931	11771	0.472	0.04	
8.274	173311	149235	0.861	0.29	
8.377	20301	13973	0.688	0.03	
8.453	17656	10935	0.619	0.02	
8.569	3697679	3243723	0.877	6.27	$ 12 Decachlorobiphenyl
8.725	35574	24380	0.685	0.06	
8.941	10679	8272	0.775	0.01	
9.056	26541	19409	0.731	0.04	
9.169	80217	63934	0.797	0.13	
	58972106	50563864		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718026.D
Lab Smp Id: 40157830009 Client Smp ID: TD2-170619-01-BB-08
Inj Date : 17-APR-2018 17:44
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830009 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: 26
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	9.976	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	3900776	0.03164	48			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1466006	0.62570	940	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1897755	0.45726	690	0.00- 20.00	129.45	BA
4.812	4.812	0.000	1982617	0.97662	1500	0.00- 20.00	135.24	BA
4.877	4.879	-0.002	3883929	0.77101	1200	0.00- 20.00	264.93	BA
5.037	5.038	-0.001	1876124	0.52281	790	0.00- 20.00	127.98	BA
Average of Peak Concentrations =					1000			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1291158	0.24663	370	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	1515091	0.35226	530	0.00- 20.00	117.34	CO
5.509	5.510	-0.001	2627817	0.33837	510	0.00- 20.00	203.52	CO
6.023	6.027	-0.004	2026805	0.41621	620	0.00- 20.00	156.98	CO
6.299	6.299	0.000	2603755	0.40014	600	0.00- 20.00	201.66	CO
Average of Peak Concentrations =					530			
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	667049	0.06661	100	0.00- 20.00	25.62	BA
7.249	7.251	-0.002	340791	0.07130	110	0.00- 20.00	13.09	BA
7.441	7.443	-0.002	250579	0.08596	130	0.00- 20.00	9.62	BA
7.897	7.901	-0.004	195657	0.07415	110	0.00- 20.00	7.51	BA
Average of Peak Concentrations =					110			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	3697678	0.03375	51			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718026.D

Date : 17-APR-2018 17:44

Client ID: TD2-170619-01-BB-08

Instrument: 40GCSJ.i

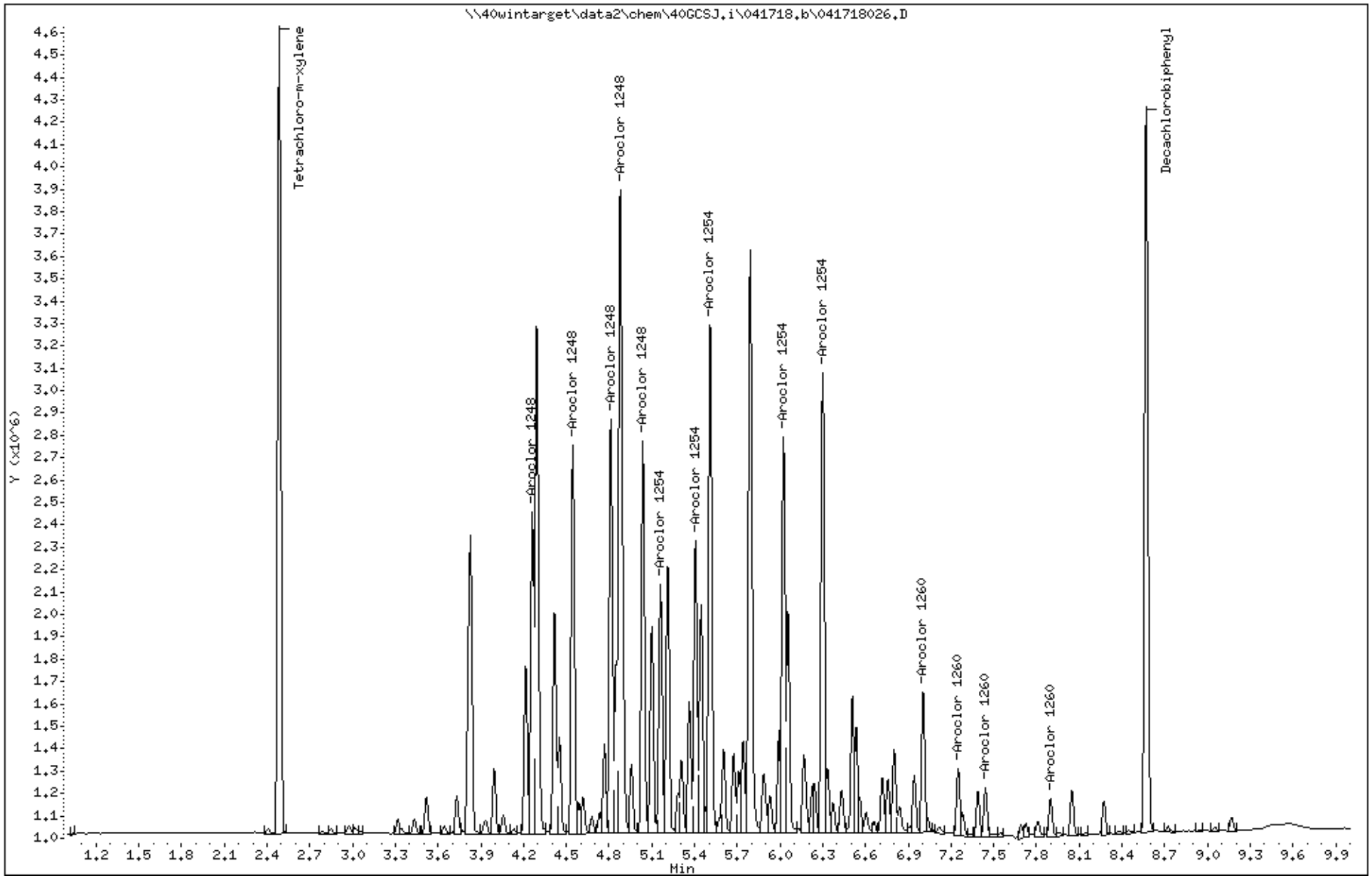
Sample Info: 40157830009 x3,

Volume Injected (uL): 1.0

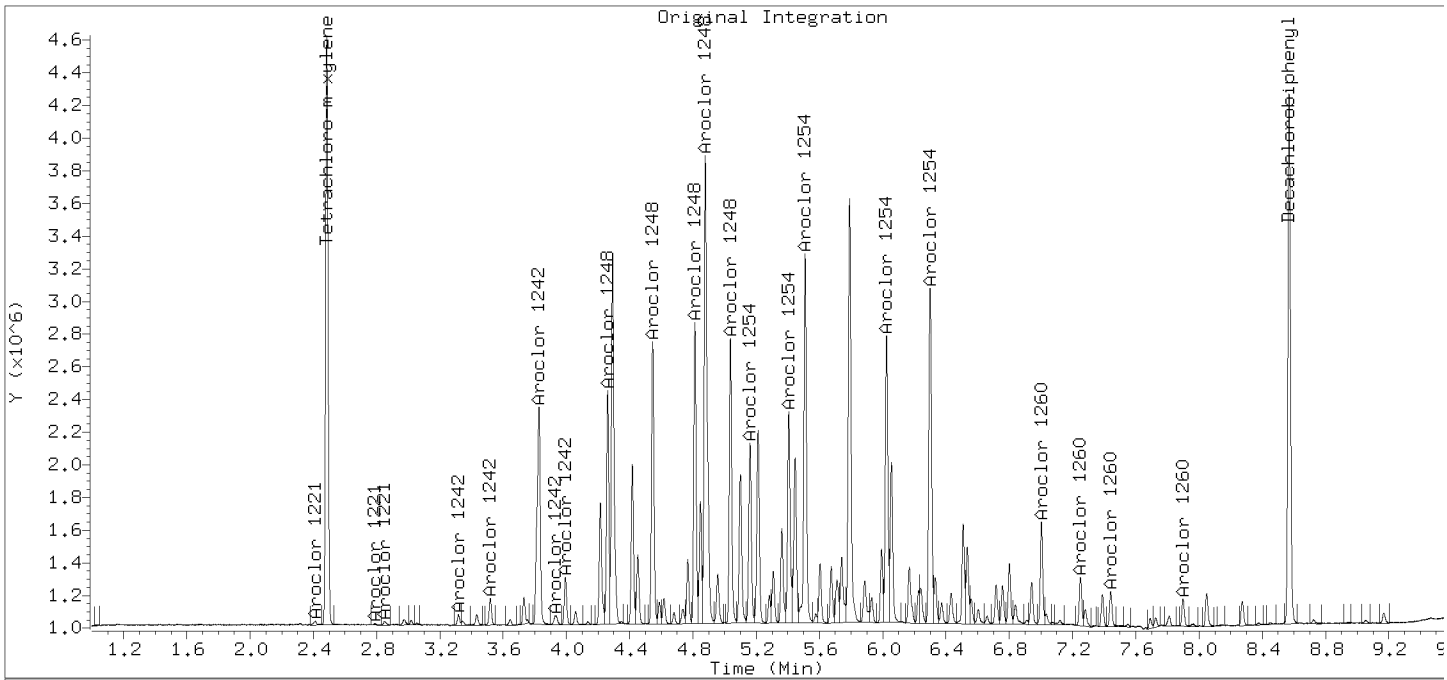
Operator: BLM

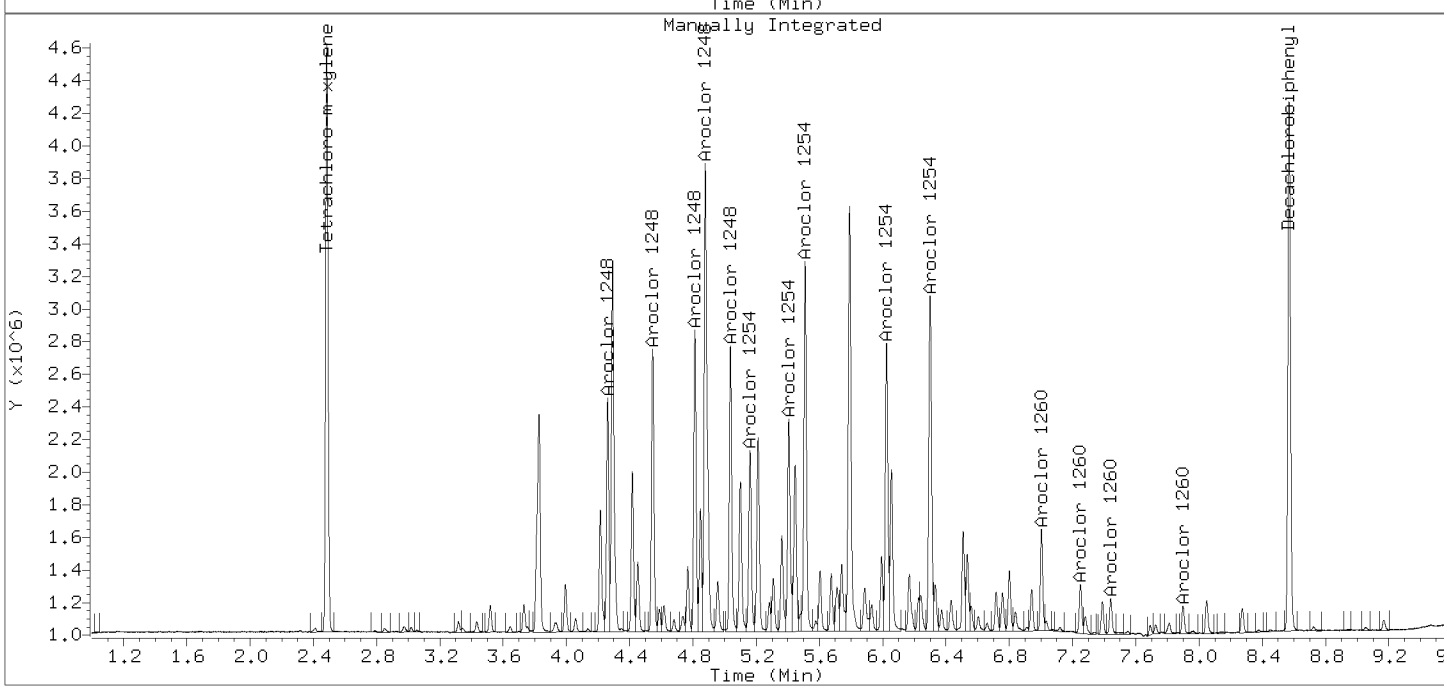
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 17:44 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	71353	0	
Aroclor 1016	71353	0	
Aroclor 1016	71353	0	
Aroclor 1016	71353	0	
Aroclor 1016	71353	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	32016	0	
Aroclor 1232	32016	0	
Aroclor 1232	32016	0	
Aroclor 1232	32016	0	

Aroclor 1232	32016	0	
Aroclor 1242	71353	0	
Aroclor 1242	71353	0	
Aroclor 1242	71353	0	
Aroclor 1242	71353	0	
Aroclor 1242	71353	0	
Aroclor 1248	1451444	1466006	BA
Aroclor 1248	1451444	1466006	BA
Aroclor 1248	1451444	1466006	BA
Aroclor 1248	1451444	1466006	BA
Aroclor 1248	1451444	1466006	BA
Aroclor 1254	1262178	1291158	CO
Aroclor 1254	1262178	1291158	CO
Aroclor 1254	1262178	1291158	CO
Aroclor 1254	1262178	1291158	CO
Aroclor 1254	1262178	1291158	CO
Aroclor 1260	2589655	0	BA
Aroclor 1260	2589655	0	BA
Aroclor 1260	2589655	0	BA
Aroclor 1260	2589655	0	BA
Aroclor 1260	2589655	0	BA
Tetrachloro-m-xylene	3900776	3900776	
Decachlorobiphenyl	3697678	3697678	

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SAMPLE NO.

TD2-170619-01-BB-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/13/2018 07:19
Lab Sample ID: 40157830010
Date Analyzed: 04/17/2018 18:00
Lab File ID: 041718.B\041718027.D
Initial wt/vol: 9.9958 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)	136	
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)	271	
11097-69-1	PCB-1254 (Aroclor 1254)	134	
11096-82-5	PCB-1260 (Aroclor 1260)	33.6	J
1336-36-3	PCB, Total	574	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718027.D
Lab Smp Id: 40157830010 Client Smp ID: TD2-170619-01-BB-07
Inj Date : 17-APR-2018 18:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830010 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: 27
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	9.996	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.024	9419	5166	0.548	0.02		
1.539	11187	8175	0.731	0.03		
1.686	12252	10879	0.888	0.03		
1.805	24401	18875	0.774	0.06	1 Aroclor 1221	BA
2.410	277262	205945	0.743	0.79	1 Aroclor 1221	BA
2.485	5002981	4649064	0.929	14.27	$ 2 Tetrachloro-m-xylene	BA
2.682	29752	16982	0.571	0.08	1 Aroclor 1221	BA
2.789	54431	45915	0.844	0.15	1 Aroclor 1221	BA
2.851	253001	218985	0.866	0.72	1 Aroclor 1221	BA
3.017	22851	22321	0.977	0.06		
3.055	156204	137807	0.882	0.44		
3.318	122667	119442	0.974	0.34		
3.345	264806	239267	0.904	0.75		
3.433	614523	585004	0.952	1.75		
3.519	574497	542614	0.945	1.63		
3.646	74548	66140	0.887	0.21		
3.731	367814	342999	0.933	1.04		
3.755	81641	80341	0.984	0.23		
3.813	1012999	593796	0.586	2.89		
3.938	94071	70551	0.750	0.26		
3.994	121564	111881	0.920	0.34		
4.058	101105	81456	0.806	0.28		
4.135	36455	28933	0.794	0.10		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.215	795304	701045	0.881	2.26	
4.261	1049721	990069	0.943	2.99	6 Aroclor 1248
4.292	1650467	1408363	0.853	4.70	
4.348	22532	16541	0.734	0.06	
4.417	373588	344061	0.921	1.06	
4.452	253267	213772	0.844	0.72	
4.545	738063	701163	0.950	2.10	6 Aroclor 1248
4.587	95866	87376	0.911	0.27	
4.617	90665	74918	0.826	0.25	
4.680	70609	60303	0.854	0.20	
4.735	67510	50178	0.743	0.19	
4.768	189555	181653	0.958	0.54	
4.813	657556	619926	0.943	1.87	6 Aroclor 1248
4.847	193452	180774	0.934	0.55	
4.878	1399419	928923	0.664	3.99	6 Aroclor 1248
4.956	203043	168686	0.831	0.57	
5.036	462408	414847	0.897	1.31	6 Aroclor 1248
5.101	538011	465062	0.864	1.53	
5.159	478544	394965	0.825	1.36	7 Aroclor 1254
5.212	492630	424428	0.862	1.40	
5.284	92438	84071	0.909	0.26	
5.308	157352	132806	0.844	0.44	
5.361	238536	202875	0.851	0.68	
5.406	564402	491004	0.870	1.61	7 Aroclor 1254
5.446	492883	418533	0.849	1.40	
5.478	62551	58584	0.937	0.17	
5.509	942682	823021	0.873	2.68	7 Aroclor 1254
5.577	41060	33615	0.819	0.11	
5.603	166217	143370	0.863	0.47	
5.674	226821	214856	0.947	0.64	
5.710	146997	114486	0.779	0.41	
5.740	219795	167852	0.764	0.62	
5.790	1278135	974567	0.762	3.64	
5.884	162801	107908	0.663	0.46	
5.930	83876	62372	0.744	0.23	
5.992	208851	187118	0.896	0.59	
6.024	724205	615937	0.851	2.06	7 Aroclor 1254
6.053	399949	323544	0.809	1.14	
6.168	212074	146457	0.691	0.60	
6.228	76955	88742	1.153	0.21	
6.241	124100	98036	0.790	0.35	
6.300	1140161	956354	0.839	3.25	7 Aroclor 1254
6.332	146134	134421	0.920	0.41	
6.374	76572	59899	0.782	0.21	
6.432	99745	76106	0.763	0.28	
6.508	347310	310816	0.895	0.99	
6.534	314931	229148	0.728	0.89	
6.607	48571	34551	0.711	0.13	
6.659	29444	23822	0.809	0.08	
6.717	111429	94237	0.846	0.31	
6.758	132829	118693	0.894	0.37	
6.802	182839	161064	0.881	0.52	
6.840	68360	43762	0.640	0.19	
6.911	18263	13743	0.753	0.05	
6.941	88033	76837	0.873	0.25	
7.004	295384	266447	0.902	0.84	8 Aroclor 1260
7.032	26443	30663	1.160	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.123	16132	14910	0.924	0.04	
7.250	163778	149961	0.916	0.46	8 Aroclor 1260
7.281	62210	46811	0.752	0.17	
7.389	100480	96987	0.965	0.28	
7.442	117685	99181	0.843	0.33	8 Aroclor 1260
7.692	38681	34566	0.894	0.11	
7.728	40394	36587	0.906	0.11	
7.809	44033	28520	0.648	0.12	
7.899	80146	68534	0.855	0.22	8 Aroclor 1260
7.955	14511	11095	0.765	0.04	
8.049	60597	50451	0.833	0.17	
8.274	105776	100760	0.953	0.30	
8.571	5258464	4531150	0.862	15.50	$ 12 Decachlorobiphenyl
8.726	12538	11276	0.899	0.03	
9.053	12066	9072	0.752	0.03	
9.167	32332	26364	0.815	0.09	
	35051586	30066133		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718027.D
Lab Smp Id: 40157830010 Client Smp ID: TD2-170619-01-BB-07
Inj Date : 17-APR-2018 18:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830010 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: 27
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	9.996	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	24401	0.02343	23	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	277262	0.50610	510	0.00- 20.00	1136.27	BA
2.681	2.688	-0.007	29751	0.02151	22	0.00- 20.00	121.93	BA
2.789	2.789	0.000	54431	0.04922	49	0.00- 20.00	223.07	BA
2.850	2.851	-0.001	253000	0.07772	78	0.00- 20.00	1036.84	BA
Average of Peak Concentrations =					140			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5002981	0.04058	40		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1049720	0.44803	450	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	738062	0.17783	180	0.00- 20.00	70.31	BA
4.812	4.812	0.000	657555	0.32391	320	0.00- 20.00	62.64	BA
4.878	4.879	-0.001	1399418	0.27780	280	0.00- 20.00	133.31	BA
5.036	5.038	-0.002	462408	0.12886	130	0.00- 20.00	44.05	BA
Average of Peak Concentrations =					270			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	478543	0.09141	91	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	564402	0.13122	130	0.00- 20.00	117.94	BA
5.508	5.510	-0.002	942681	0.12138	120	0.00- 20.00	196.99	BA
6.024	6.027	-0.003	724205	0.14872	150	0.00- 20.00	151.34	BA
6.299	6.299	0.000	1140161	0.17522	180	0.00- 20.00	238.26	BA
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	295384	0.02950	30	0.00- 20.00	28.19	CO
7.249	7.251	-0.002	163778	0.03426	34	0.00- 20.00	14.36	CO
7.441	7.443	-0.002	117684	0.04037	40	0.00- 20.00	10.32	CO
7.899	7.901	-0.002	80145	0.03037	30	0.00- 20.00	7.03	CO
Average of Peak Concentrations =					34			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5258464	0.04800	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\041718.b\041718027.D

Date : 17-APR-2018 18:00

Client ID: TD2-170619-01-BB-07

Instrument: 40GCSJ.i

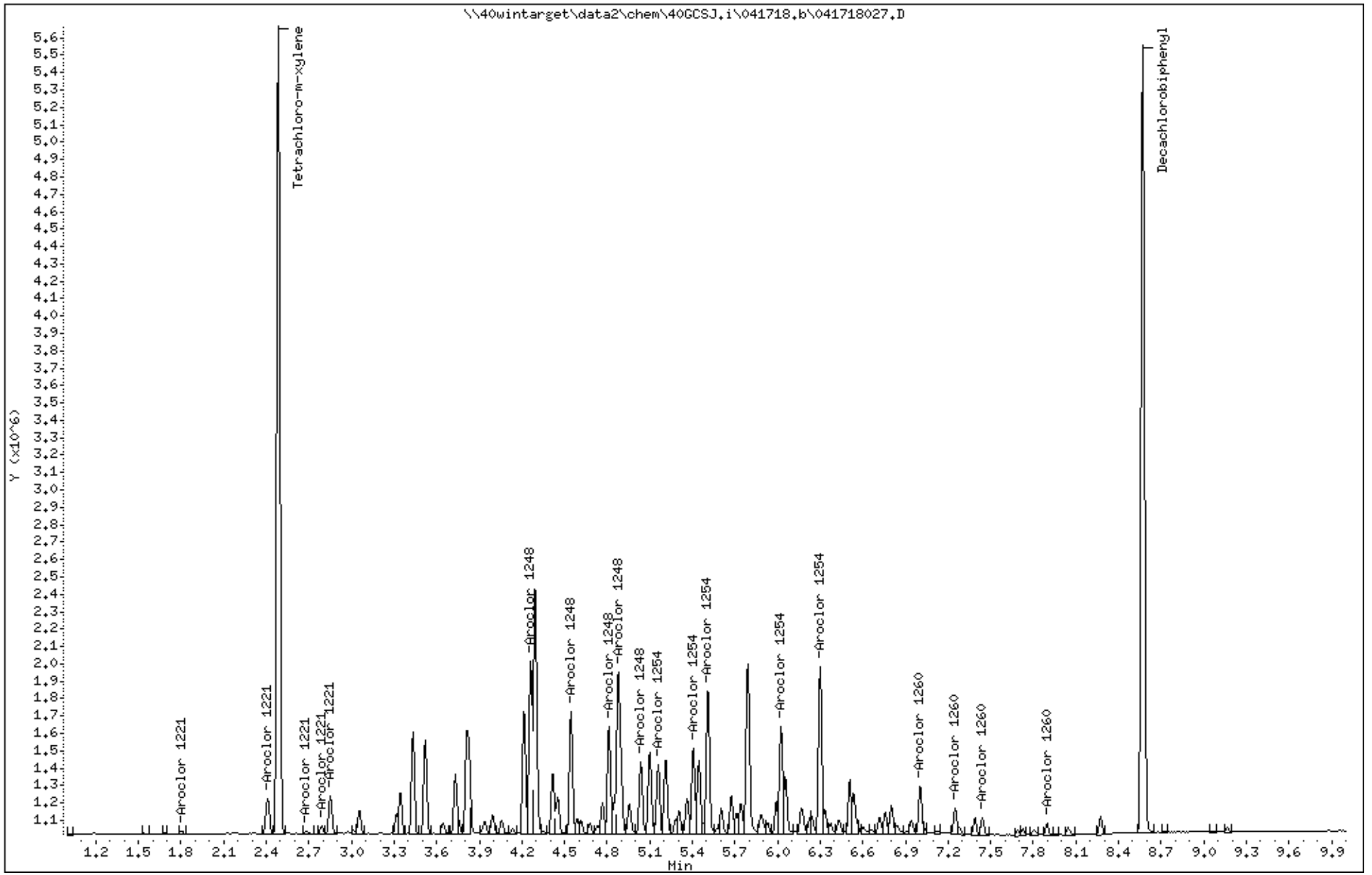
Sample Info: 40157830010 x2,

Volume Injected (uL): 1.0

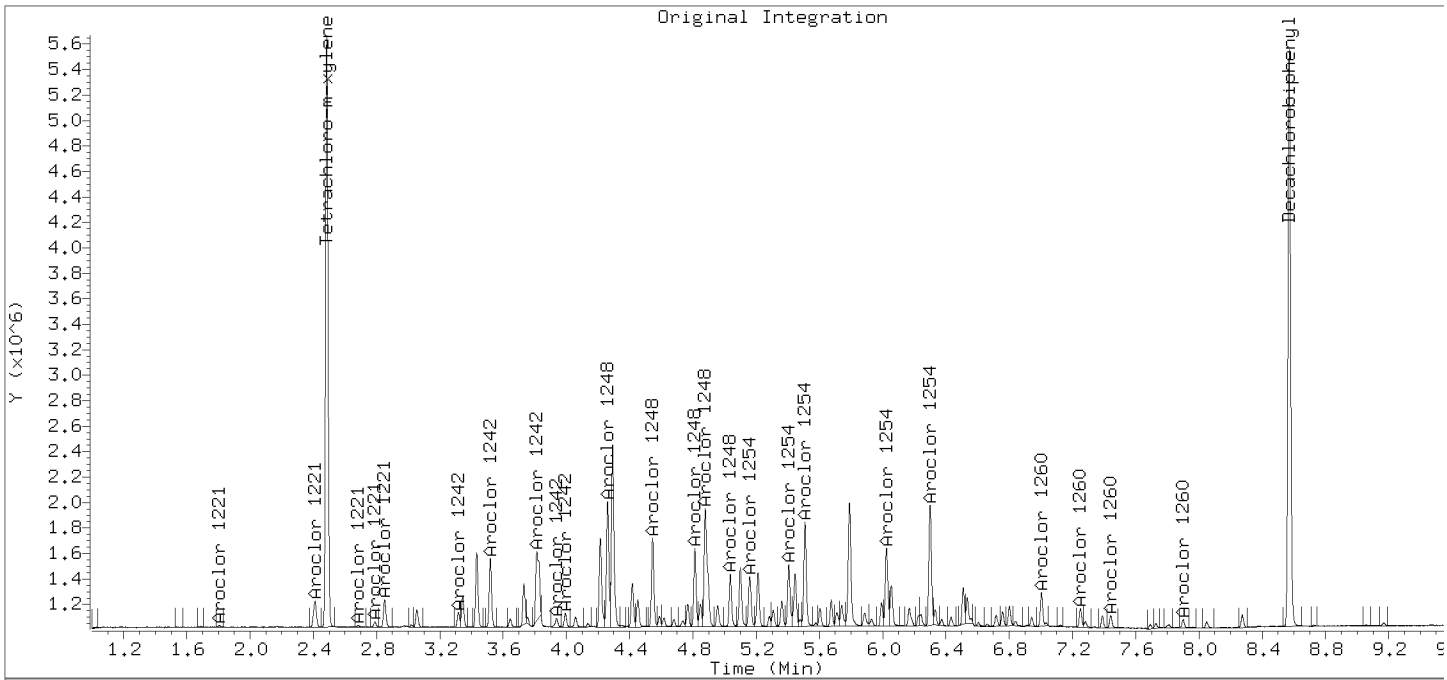
Operator: BLM

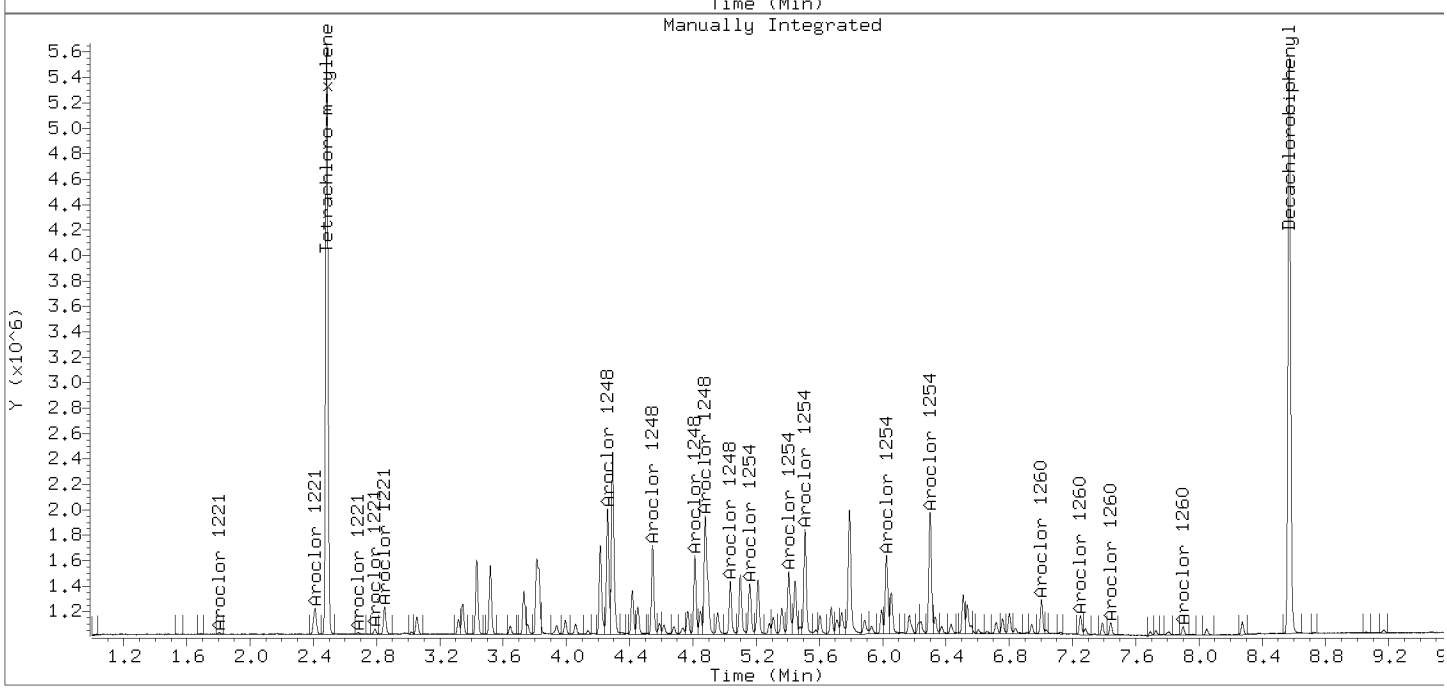
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 18:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	120415	0	
Aroclor 1016	120415	0	
Aroclor 1016	120415	0	
Aroclor 1016	120415	0	
Aroclor 1016	120415	0	
Aroclor 1221	19884	24401	BA
Aroclor 1221	19884	24401	BA
Aroclor 1221	19884	24401	BA
Aroclor 1221	19884	24401	BA
Aroclor 1221	19884	24401	BA
Aroclor 1232	241455	0	
Aroclor 1232	241455	0	
Aroclor 1232	241455	0	
Aroclor 1232	241455	0	

Aroclor 1232	241455	0	
Aroclor 1242	120415	0	
Aroclor 1242	120415	0	
Aroclor 1242	120415	0	
Aroclor 1242	120415	0	
Aroclor 1242	120415	0	
Aroclor 1248	1044721	1049720	BA
Aroclor 1248	1044721	1049720	BA
Aroclor 1248	1044721	1049720	BA
Aroclor 1248	1044721	1049720	BA
Aroclor 1248	1044721	1049720	BA
Aroclor 1254	464890	478543	BA
Aroclor 1254	464890	478543	BA
Aroclor 1254	464890	478543	BA
Aroclor 1254	464890	478543	BA
Aroclor 1254	464890	478543	BA
Aroclor 1260	1106736	0	CO
Aroclor 1260	1106736	0	CO
Aroclor 1260	1106736	0	CO
Aroclor 1260	1106736	0	CO
Aroclor 1260	1106736	0	CO
Tetrachloro-m-xylene	4988967	5002981	BA
Decachlorobiphenyl	5258464	5258464	

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SAMPLE NO.

TD2-170619-01-BB-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/13/2018 07:19
Lab Sample ID: 40157830011
Date Analyzed: 04/17/2018 18:47
Lab File ID: 041718.B\041718030.D
Initial wt/vol: 10.0128 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)	176	
11097-69-1	PCB-1254 (Aroclor 1254)	107	
11096-82-5	PCB-1260 (Aroclor 1260)	29.7	J
1336-36-3	PCB, Total	312	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718030.D
Lab Smp Id: 40157830011 Client Smp ID: TD2-170619-01-BB-06
Inj Date : 17-APR-2018 18:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830011,
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: 30
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	10.013	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.188	12187	10132	0.831	0.02		
1.540	10095	8097	0.802	0.01		
2.199	34869	22441	0.644	0.06		
2.406	11183	11847	1.059	0.02	1 Aroclor 1221	
2.485	10843075	9976247	0.920	21.25	$ 2 Tetrachloro-m-xylene	
2.789	15188	16046	1.056	0.02	1 Aroclor 1221	
2.855	31215	20411	0.654	0.05	1 Aroclor 1221	
2.921	9222	8200	0.889	0.01		
2.975	36714	25712	0.700	0.06		
3.020	26846	25553	0.952	0.05		
3.049	14598	10107	0.692	0.02		
3.318	32303	28070	0.869	0.06		
3.346	20535	15724	0.766	0.03		
3.400	9769	11077	1.134	0.01		
3.434	39261	31255	0.796	0.07		
3.519	72779	65104	0.895	0.13		
3.644	16491	13755	0.834	0.03		
3.731	127092	105298	0.829	0.24		
3.827	867935	646553	0.745	1.65		
3.927	44436	22652	0.510	0.08		
3.993	139095	132104	0.950	0.26		
4.056	47060	34297	0.729	0.08		
4.214	371651	311762	0.839	0.70		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.260	827310	773336	0.935	1.57	6 Aroclor 1248
4.291	1398644	1172881	0.839	2.66	
4.416	526201	497812	0.946	1.00	
4.451	264380	238441	0.902	0.50	
4.506	45139	38307	0.849	0.08	
4.545	997511	924082	0.926	1.90	6 Aroclor 1248
4.587	82010	73117	0.892	0.15	
4.617	95671	77719	0.812	0.18	
4.677	76933	61164	0.795	0.14	
4.735	89568	65667	0.733	0.17	
4.767	246552	231386	0.938	0.46	
4.812	1003905	947970	0.944	1.91	6 Aroclor 1248
4.847	275863	258326	0.936	0.52	
4.878	2039926	1505391	0.738	3.88	6 Aroclor 1248
4.956	233154	184973	0.793	0.44	
5.036	960335	899784	0.937	1.83	6 Aroclor 1248
5.099	630100	539929	0.857	1.20	
5.160	864621	747021	0.864	1.64	7 Aroclor 1254
5.212	899063	778891	0.866	1.71	
5.282	143485	127955	0.892	0.27	
5.308	256361	204242	0.797	0.48	
5.362	424877	358158	0.843	0.80	
5.406	829102	712279	0.859	1.58	7 Aroclor 1254
5.447	748540	617315	0.825	1.42	
5.477	58409	60765	1.040	0.11	
5.509	1552617	1383509	0.891	2.95	7 Aroclor 1254
5.577	54090	46271	0.855	0.10	
5.603	250578	216799	0.865	0.47	
5.674	269984	233765	0.866	0.51	
5.710	219042	173815	0.794	0.41	
5.741	355426	244337	0.687	0.67	
5.790	2115652	1628020	0.770	4.03	
5.885	225477	159035	0.705	0.42	
5.931	167761	102881	0.613	0.31	
5.993	336334	302101	0.898	0.64	
6.024	1147327	1009420	0.880	2.18	7 Aroclor 1254
6.055	875316	743494	0.849	1.66	
6.120	22057	18355	0.832	0.04	
6.167	360576	242713	0.673	0.68	
6.227	134151	133677	0.996	0.25	
6.241	180941	148539	0.821	0.34	
6.300	1787327	1455698	0.814	3.40	7 Aroclor 1254
6.333	207227	191689	0.925	0.39	
6.372	118210	90742	0.768	0.22	
6.432	188360	134347	0.713	0.35	
6.482	14167	19436	1.372	0.02	
6.509	743581	693386	0.932	1.41	
6.534	356877	318667	0.893	0.68	
6.559	146682	127339	0.868	0.27	
6.605	81339	57138	0.702	0.15	
6.659	57073	44398	0.778	0.10	
6.717	235948	205509	0.871	0.44	
6.758	218217	191505	0.878	0.41	
6.801	273597	235836	0.862	0.52	
6.840	129547	86410	0.667	0.24	
6.910	22383	21937	0.980	0.04	
6.941	180089	157387	0.874	0.34	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.004	508215	454460	0.894	0.96	8 Aroclor 1260
7.034	66284	62088	0.937	0.12	
7.121	43616	29752	0.682	0.08	
7.251	272974	237182	0.869	0.52	8 Aroclor 1260
7.281	112024	88539	0.790	0.21	
7.338	23771	16439	0.692	0.04	
7.389	198756	172426	0.868	0.37	
7.441	203348	169796	0.835	0.38	8 Aroclor 1260
7.552	14045	14633	1.042	0.02	
7.581	13810	12354	0.895	0.02	
7.618	25174	13186	0.524	0.04	
7.661	15005	13794	0.919	0.02	
7.690	61575	59833	0.972	0.11	
7.728	72577	61940	0.853	0.13	
7.810	74480	43482	0.584	0.14	
7.900	158335	129638	0.819	0.30	8 Aroclor 1260
7.958	30621	16824	0.549	0.05	
8.048	128959	113506	0.880	0.24	
8.274	164925	148777	0.902	0.31	
8.376	17068	14133	0.828	0.03	
8.570	10305752	8873928	0.861	19.64	$ 12 Decachlorobiphenyl
8.726	17314	16275	0.940	0.03	
9.058	15814	12720	0.804	0.03	
9.168	35669	29252	0.820	0.06	
	52459324	45272467		100.000	

Total unknown % area = 34

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718030.D
Lab Smp Id: 40157830011 Client Smp ID: TD2-170619-01-BB-06
Inj Date : 17-APR-2018 18:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830011,
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: 30
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	10.013	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

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

2.484	2.484	0.000	10843075	0.08794	44			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	827309	0.35310	180	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	997511	0.24035	120	0.00- 20.00	120.57	BA
4.811	4.812	-0.001	1003905	0.49451	250	0.00- 20.00	121.35	BA
4.877	4.879	-0.002	2039926	0.40495	200	0.00- 20.00	246.57	BA
5.036	5.038	-0.002	960334	0.26761	130	0.00- 20.00	116.08	BA
			Average of Peak Concentrations =		180			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	864620	0.16515	82	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	829102	0.19277	96	0.00- 20.00	95.89	BA
5.508	5.510	-0.002	1552617	0.19992	100	0.00- 20.00	179.57	BA
6.024	6.027	-0.003	1147327	0.23561	120	0.00- 20.00	132.70	BA
6.299	6.299	0.000	1787326	0.27467	140	0.00- 20.00	206.72	BA
			Average of Peak Concentrations =		110			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	508214	0.05075	25	0.00- 20.00	28.43	BA
7.250	7.251	-0.001	272974	0.05711	28	0.00- 20.00	15.27	BA
7.441	7.443	-0.002	203348	0.06976	35	0.00- 20.00	11.38	BA
7.900	7.901	-0.001	158335	0.06000	30	0.00- 20.00	8.86	BA
			Average of Peak Concentrations =		30			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10305751	0.09406	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\041718.b\041718030.D

Date : 17-APR-2018 18:47

Client ID: TD2-170619-01-BB-06

Instrument: 40GCSJ.i

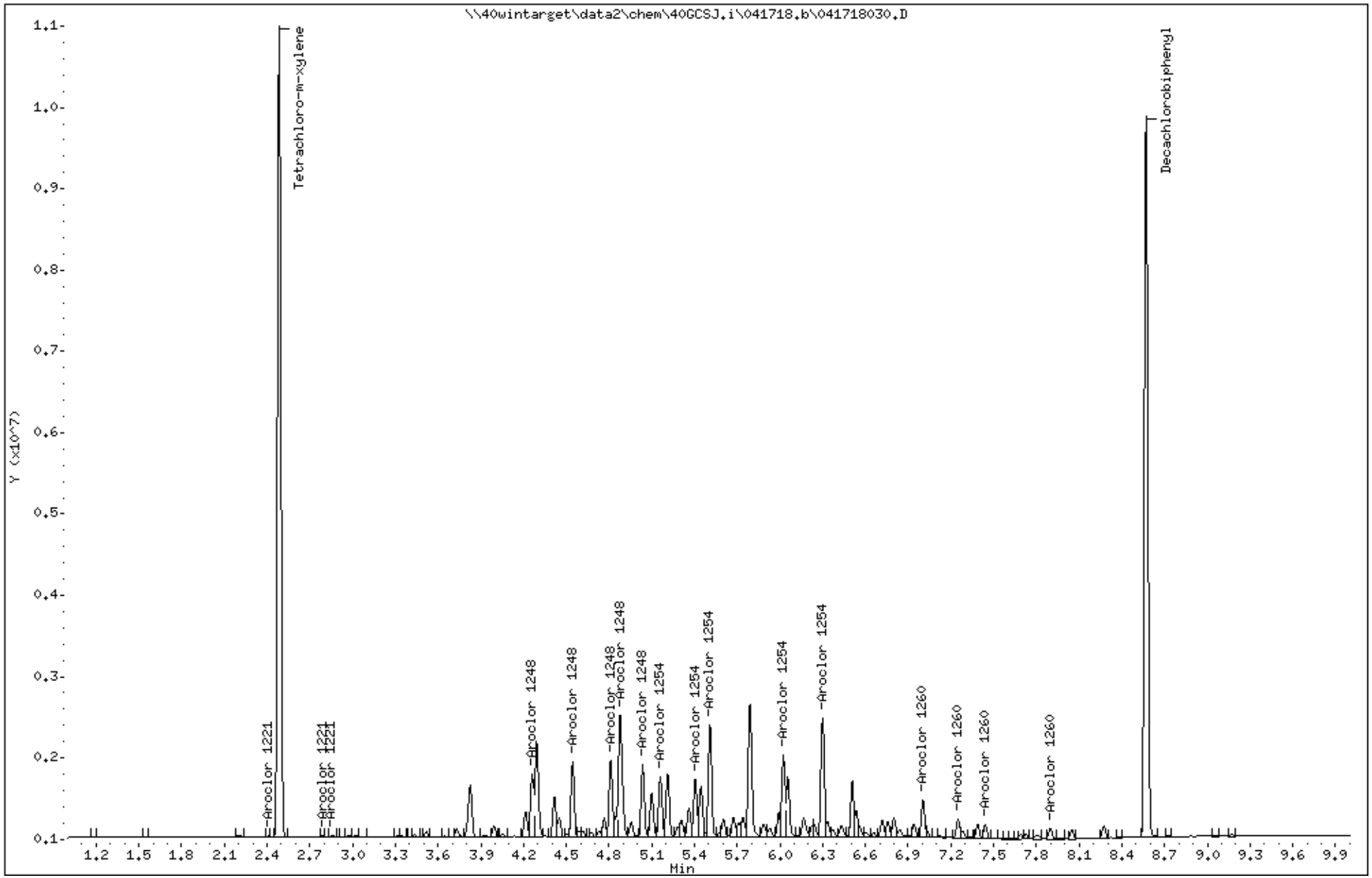
Sample Info: 40157830011,

Volume Injected (uL): 1.0

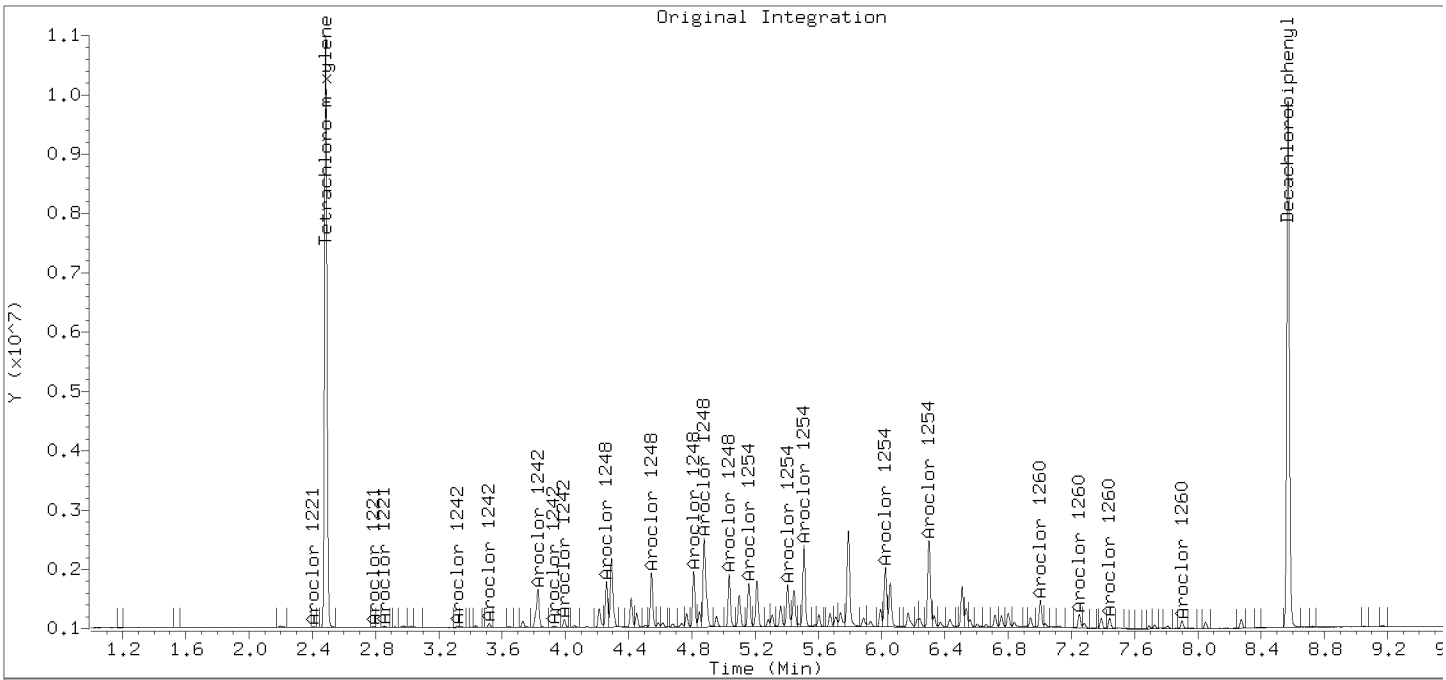
Operator: BLM

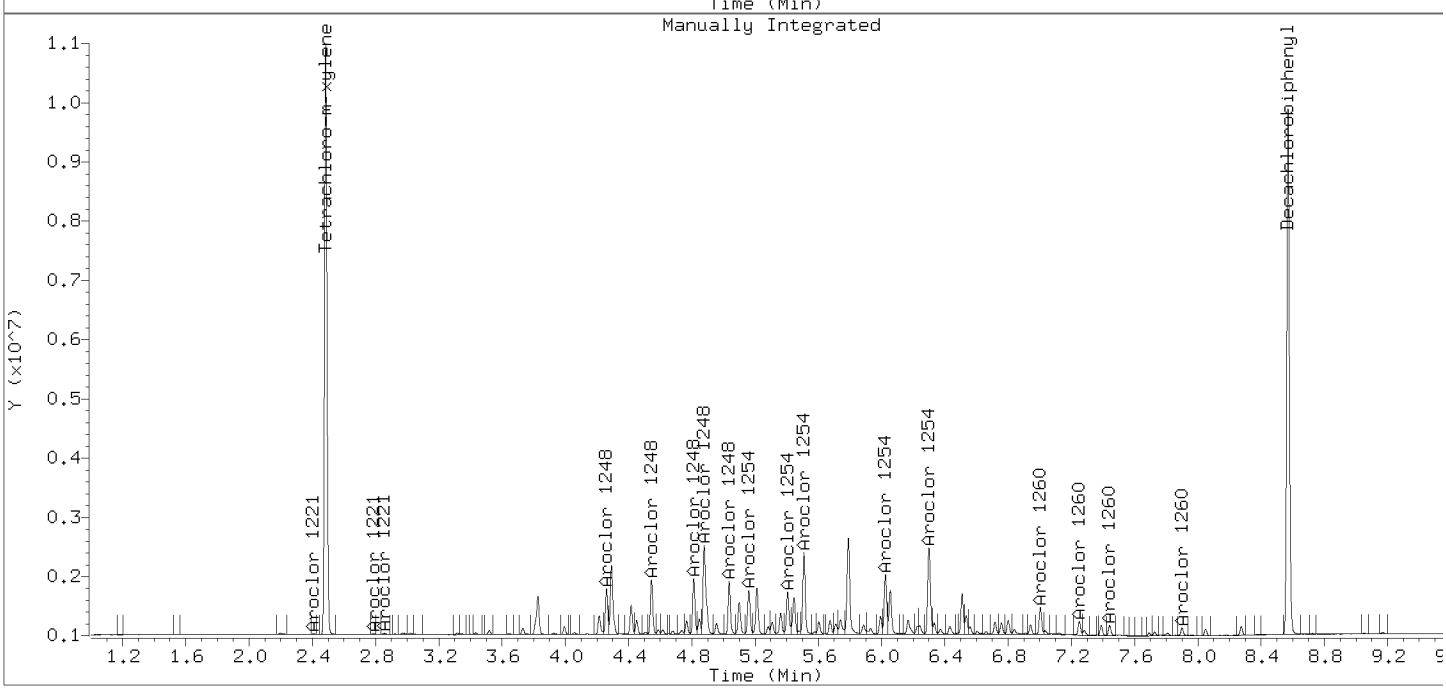
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 18:47 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	32303	0	
Aroclor 1016	32303	0	
Aroclor 1016	32303	0	
Aroclor 1016	32303	0	
Aroclor 1016	32303	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	31215	0	
Aroclor 1232	31215	0	
Aroclor 1232	31215	0	
Aroclor 1232	31215	0	

Aroclor 1232	31215	0	
Aroclor 1242	32303	0	
Aroclor 1242	32303	0	
Aroclor 1242	32303	0	
Aroclor 1242	32303	0	
Aroclor 1242	32303	0	
Aroclor 1248	811558	827309	BA
Aroclor 1248	811558	827309	BA
Aroclor 1248	811558	827309	BA
Aroclor 1248	811558	827309	BA
Aroclor 1248	811558	827309	BA
Aroclor 1254	839210	864620	BA
Aroclor 1254	839210	864620	BA
Aroclor 1254	839210	864620	BA
Aroclor 1254	839210	864620	BA
Aroclor 1254	839210	864620	BA
Aroclor 1260	1771948	0	BA
Aroclor 1260	1771948	0	BA
Aroclor 1260	1771948	0	BA
Aroclor 1260	1771948	0	BA
Aroclor 1260	1771948	0	BA
Tetrachloro-m-xylene	10843075	10843075	
Decachlorobiphenyl	10305751	10305751	

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SAMPLE NO.

TD2-170619-01-BB-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/13/2018 07:19
Lab Sample ID: 40157830012
Date Analyzed: 04/17/2018 19:03
Lab File ID: 041718.B\041718031.D
Initial wt/vol: 10.0055 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)	248	
11097-69-1	PCB-1254 (Aroclor 1254)	155	
11096-82-5	PCB-1260 (Aroclor 1260)	44.2	J
1336-36-3	PCB, Total	447	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718031.D
Lab Smp Id: 40157830012 Client Smp ID: TD2-170619-01-BB-05
Inj Date : 17-APR-2018 19:03
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830012,
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: 31
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	10.006	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.156	15437	8239	0.534	0.02		
1.429	11197	7411	0.662	0.01		
1.537	11955	8233	0.689	0.01		
2.198	51155	29490	0.576	0.07		
2.412	19632	18012	0.917	0.03	1 Aroclor 1221	
2.485	10369293	9529667	0.919	16.59	$ 2 Tetrachloro-m-xylene	
2.785	19690	17149	0.871	0.03	1 Aroclor 1221	
2.855	38290	23997	0.627	0.05	1 Aroclor 1221	
2.924	15267	10784	0.706	0.02		
2.975	37354	27136	0.726	0.05		
3.020	17113	16462	0.962	0.02		
3.051	11811	8936	0.757	0.01		
3.318	35769	29971	0.838	0.05		
3.342	26436	24935	0.943	0.04		
3.433	72806	69296	0.952	0.11		
3.518	130078	119929	0.922	0.20		
3.646	18264	14639	0.802	0.02		
3.732	137023	105118	0.767	0.21		
3.826	1147990	868281	0.756	1.77		
3.923	38477	26097	0.678	0.05		
3.993	188638	176413	0.935	0.29		
4.058	61391	48405	0.788	0.09		
4.138	20027	15855	0.792	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.214	489199	440978	0.901	0.75	
4.260	1010695	957776	0.948	1.56	6 Aroclor 1248
4.292	1990860	1624847	0.816	3.08	
4.417	838349	799658	0.954	1.29	
4.451	418372	383075	0.916	0.64	
4.545	1301268	1190303	0.915	2.01	6 Aroclor 1248
4.587	122478	113383	0.926	0.18	
4.617	167202	147145	0.880	0.25	
4.680	84671	75653	0.893	0.13	
4.736	101897	69297	0.680	0.15	
4.767	383476	364432	0.950	0.59	
4.812	1592924	1498546	0.941	2.46	6 Aroclor 1248
4.848	465501	447624	0.962	0.72	
4.878	3099784	2270985	0.733	4.80	6 Aroclor 1248
4.957	320173	250629	0.783	0.49	
5.036	1189750	1084671	0.912	1.84	6 Aroclor 1248
5.100	942156	819386	0.870	1.45	
5.159	1051935	884384	0.841	1.62	7 Aroclor 1254
5.212	1029191	904178	0.879	1.59	
5.283	199615	197469	0.989	0.30	
5.307	357545	297418	0.832	0.55	
5.362	569894	494936	0.868	0.88	
5.406	1268652	1107548	0.873	1.96	7 Aroclor 1254
5.446	1011517	857609	0.848	1.56	
5.479	72992	77956	1.068	0.11	
5.509	2059395	1757541	0.853	3.19	7 Aroclor 1254
5.576	67252	62139	0.924	0.10	
5.604	378884	320032	0.845	0.58	
5.674	345299	322190	0.933	0.53	
5.710	304694	246116	0.808	0.47	
5.741	599921	446818	0.745	0.92	
5.790	3143578	2446459	0.778	4.86	
5.886	353209	261972	0.742	0.54	
5.929	281975	200857	0.712	0.43	
5.993	605553	565940	0.935	0.93	
6.023	1786749	1556055	0.871	2.76	7 Aroclor 1254
6.055	811003	707859	0.873	1.25	
6.167	451586	336201	0.744	0.69	
6.226	203935	220175	1.080	0.31	
6.241	284078	242384	0.853	0.44	
6.300	2776398	2218324	0.799	4.30	7 Aroclor 1254
6.333	317620	286737	0.903	0.49	
6.373	152225	129373	0.850	0.23	
6.431	329606	272516	0.827	0.51	
6.508	1062468	963298	0.907	1.64	
6.534	520081	473837	0.911	0.80	
6.559	180280	165050	0.916	0.27	
6.604	114534	94554	0.826	0.17	
6.659	66169	58537	0.885	0.10	
6.716	290683	249937	0.860	0.45	
6.758	350762	314523	0.897	0.54	
6.799	438174	394916	0.901	0.67	
6.839	192880	147250	0.763	0.29	
6.912	40988	39161	0.955	0.06	
6.942	259615	244635	0.942	0.40	
7.004	781609	709913	0.908	1.21	8 Aroclor 1260
7.035	87906	80568	0.917	0.13	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.076	11067	13300	1.202	0.01	
7.122	41421	33919	0.819	0.06	
7.250	362534	325563	0.898	0.56	8 Aroclor 1260
7.281	148916	125363	0.842	0.23	
7.389	330719	302639	0.915	0.51	
7.442	342066	302896	0.885	0.52	8 Aroclor 1260
7.550	18335	19930	1.087	0.02	
7.612	13753	11534	0.839	0.02	
7.688	84466	80868	0.957	0.13	
7.726	108872	98470	0.904	0.16	
7.757	10329	9681	0.937	0.01	
7.811	105368	66333	0.630	0.16	
7.858	9278	8144	0.878	0.01	
7.898	217200	187975	0.865	0.33	8 Aroclor 1260
7.963	32693	20953	0.641	0.05	
8.048	207256	190035	0.917	0.32	
8.273	256125	227469	0.888	0.39	
8.374	11897	11550	0.971	0.01	
8.454	13565	11537	0.850	0.02	
8.570	9915454	8910012	0.899	15.35	$ 12 Decachlorobiphenyl
8.723	23374	19480	0.833	0.03	
9.053	28539	19681	0.690	0.04	
9.168	48581	43746	0.900	0.07	
	64556101	56141286		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718031.D
Lab Smp Id: 40157830012 Client Smp ID: TD2-170619-01-BB-05
Inj Date : 17-APR-2018 19:03
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830012,
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: 31
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	10.006	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	10369293	0.08410	42			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1010695	0.43137	220	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1301267	0.31354	160	0.00- 20.00	128.75	BA
4.812	4.812	0.000	1592923	0.78466	390	0.00- 20.00	157.61	BA
4.877	4.879	-0.002	3099784	0.61535	310	0.00- 20.00	306.70	BA
5.036	5.038	-0.002	1189749	0.33154	160	0.00- 20.00	117.72	BA
Average of Peak Concentrations =					250			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	1051935	0.20093	100	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1268651	0.29496	150	0.00- 20.00	120.60	BA
5.508	5.510	-0.002	2059394	0.26518	130	0.00- 20.00	195.77	BA
6.022	6.027	-0.005	1786749	0.36691	180	0.00- 20.00	169.85	BA
6.300	6.299	0.001	2776397	0.42667	210	0.00- 20.00	263.93	BA
Average of Peak Concentrations =					160			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	781609	0.07805	39	0.00- 20.00	28.15	BA
7.249	7.251	-0.002	362534	0.07585	38	0.00- 20.00	13.06	BA
7.441	7.443	-0.002	342065	0.11734	59	0.00- 20.00	12.32	BA
7.898	7.901	-0.003	217199	0.08231	41	0.00- 20.00	7.82	BA
Average of Peak Concentrations =					44			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9915453	0.09050	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\041718.b\041718031.D

Date : 17-APR-2018 19:03

Client ID: TD2-170619-01-BB-05

Instrument: 40GCSJ.i

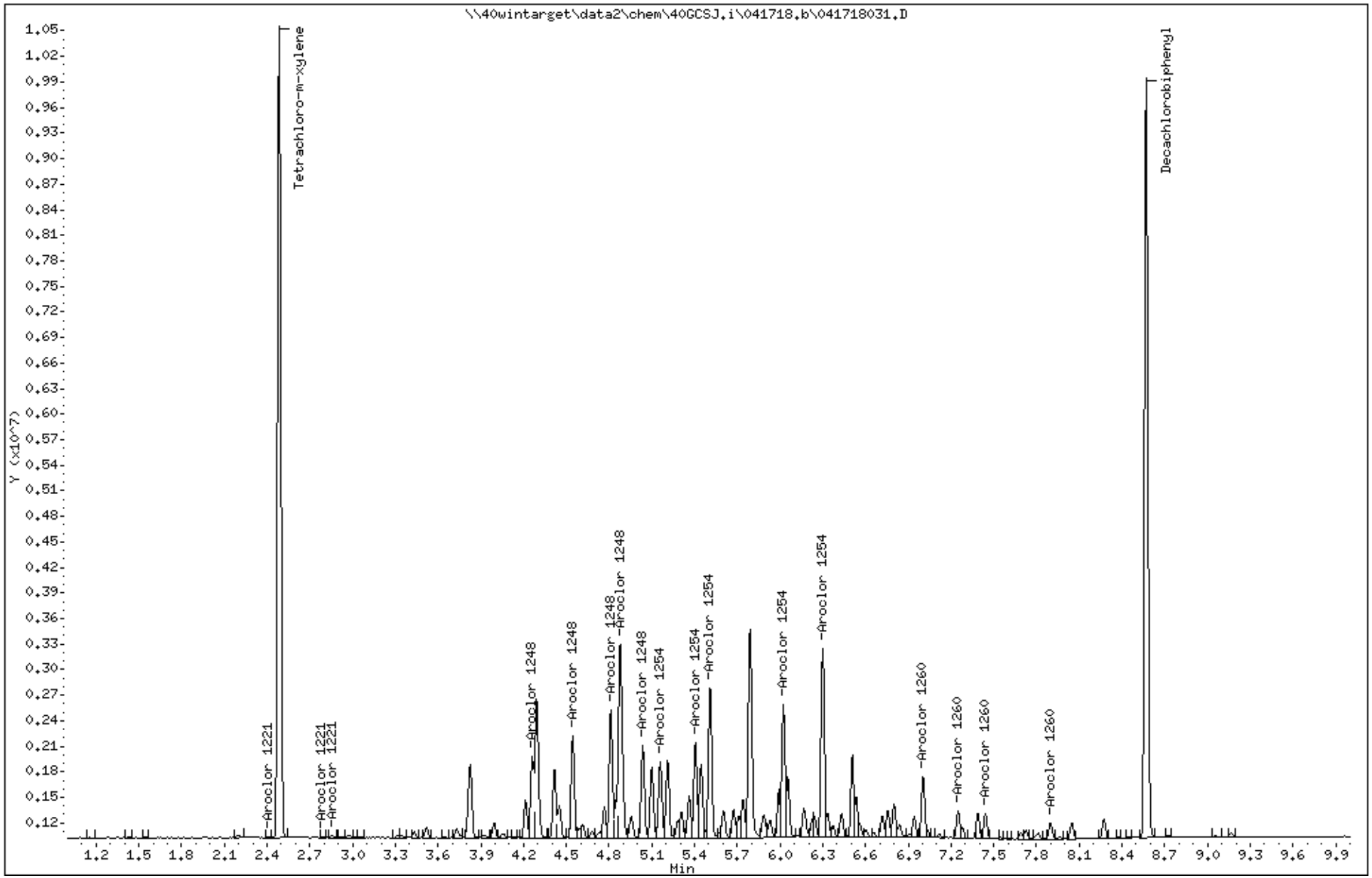
Sample Info: 40157830012,

Volume Injected (uL): 1.0

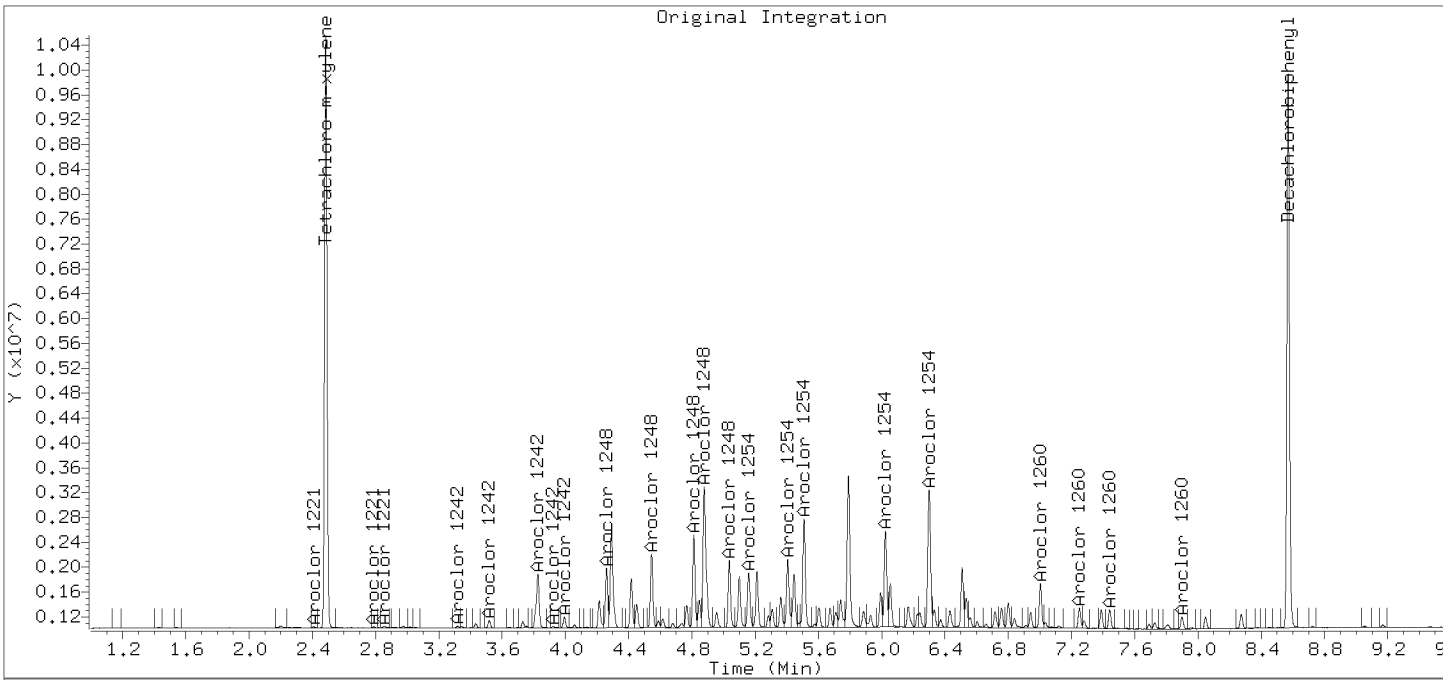
Operator: BLM

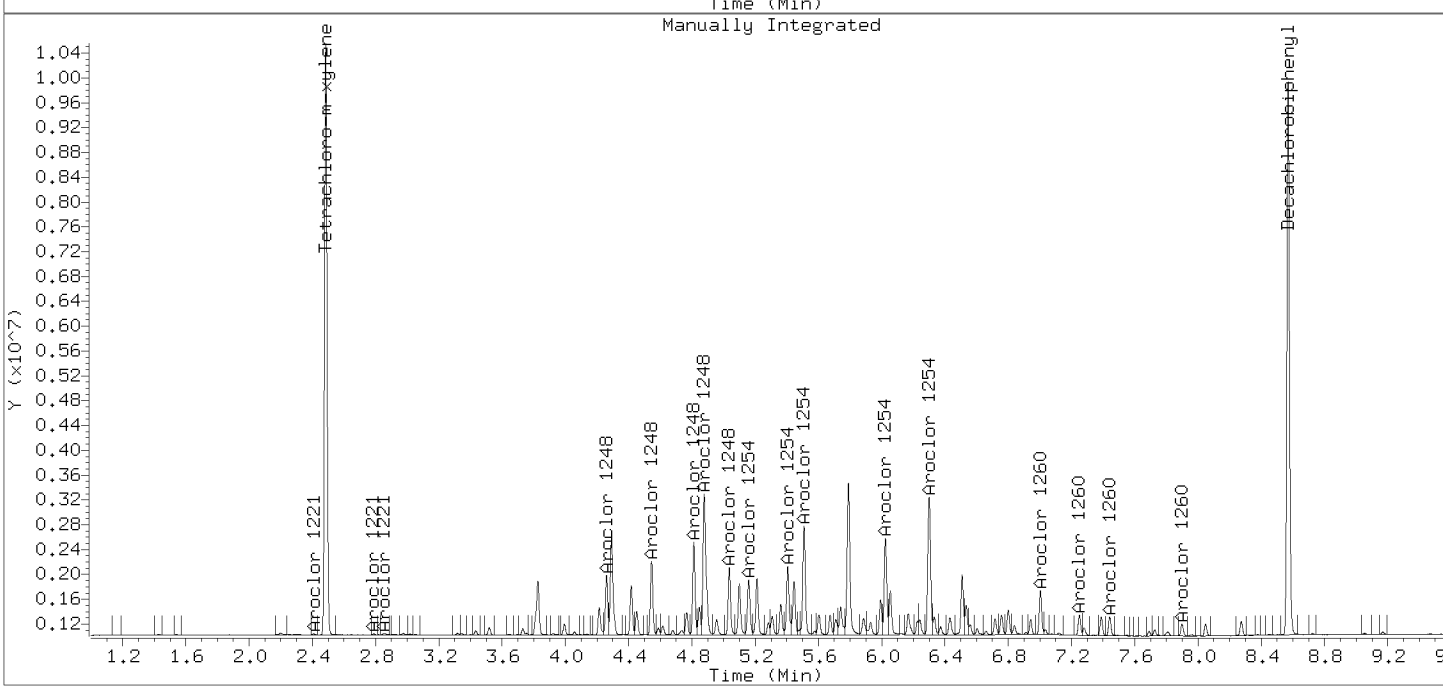
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 19:03 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830012





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	35769	0	
Aroclor 1016	35769	0	
Aroclor 1016	35769	0	
Aroclor 1016	35769	0	
Aroclor 1016	35769	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	38289	0	
Aroclor 1232	38289	0	
Aroclor 1232	38289	0	
Aroclor 1232	38289	0	

Aroclor 1232	38289	0	
Aroclor 1242	35769	0	
Aroclor 1242	35769	0	
Aroclor 1242	35769	0	
Aroclor 1242	35769	0	
Aroclor 1242	35769	0	
Aroclor 1248	997241	1010695	BA
Aroclor 1248	997241	1010695	BA
Aroclor 1248	997241	1010695	BA
Aroclor 1248	997241	1010695	BA
Aroclor 1248	997241	1010695	BA
Aroclor 1254	1026462	1051935	BA
Aroclor 1254	1026462	1051935	BA
Aroclor 1254	1026462	1051935	BA
Aroclor 1254	1026462	1051935	BA
Aroclor 1254	1026462	1051935	BA
Aroclor 1260	2760059	0	BA
Aroclor 1260	2760059	0	BA
Aroclor 1260	2760059	0	BA
Aroclor 1260	2760059	0	BA
Aroclor 1260	2760059	0	BA
Tetrachloro-m-xylene	10369293	10369293	
Decachlorobiphenyl	9915453	9915453	

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SAMPLE NO.

TD1-170619-01-YB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/12/2018 07:14
Lab Sample ID: 40157830013
Date Analyzed: 04/17/2018 12:43
Lab File ID: 041718.B\041718007.D
Initial wt/vol: 9.9973 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)	773	
11097-69-1	PCB-1254 (Aroclor 1254)	405	
11096-82-5	PCB-1260 (Aroclor 1260)	54.3	J
1336-36-3	PCB, Total	1230	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718007.D
Lab Smp Id: 40157830013 Client Smp ID: TD1-170619-01-YB-03
Inj Date : 17-APR-2018 12:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830013 x3,
Misc Info : 17670,BIOTA
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: 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	9.997	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	15337	10339	0.674	0.03		
1.693	14091	8999	0.639	0.03		
1.774	12187	12055	0.989	0.02	1 Aroclor 1221	
2.410	13320	12619	0.947	0.02	1 Aroclor 1221	
2.485	3665311	3421416	0.933	8.59	$ 2 Tetrachloro-m-xylene	
2.788	9300	9696	1.043	0.02	1 Aroclor 1221	
3.018	26042	25629	0.984	0.05		
3.055	21203	18069	0.852	0.04		
3.315	24959	20241	0.811	0.05		
3.344	20398	16646	0.816	0.04		
3.435	17343	13453	0.776	0.03		
3.519	103985	98680	0.949	0.23		
3.648	11432	9010	0.788	0.02		
3.733	101817	85370	0.838	0.22		
3.826	1381902	998518	0.723	3.06		
3.940	57810	38679	0.669	0.12		
3.994	207838	191243	0.920	0.46		
4.059	111956	97778	0.873	0.24		
4.215	1557317	1455915	0.935	3.45		
4.261	1344415	1288876	0.959	2.98	6 Aroclor 1248	BA
4.292	1459898	1187338	0.813	3.23		
4.346	17066	14746	0.864	0.03		
4.417	1117372	1066469	0.954	2.47		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	497218	430235	0.865	1.10	
4.546	1456281	1337208	0.918	3.23	6 Aroclor 1248
4.591	51160	46939	0.918	0.11	
4.618	98899	81538	0.824	0.21	
4.680	44943	38463	0.856	0.09	
4.736	59218	42315	0.715	0.13	
4.768	233074	215944	0.927	0.51	
4.814	1393741	1305512	0.937	3.09	6 Aroclor 1248
4.848	782761	741185	0.947	1.73	
4.879	3239799	2154079	0.665	7.18	6 Aroclor 1248
4.956	347083	273118	0.787	0.76	
5.038	1155123	1047380	0.907	2.56	6 Aroclor 1248
5.101	636445	539951	0.848	1.41	
5.162	1443655	1263023	0.875	3.20	7 Aroclor 1254
5.213	1240826	1089541	0.878	2.75	
5.285	111469	94669	0.849	0.24	
5.309	197343	167068	0.847	0.43	
5.364	459750	401706	0.874	1.01	
5.407	1158992	998734	0.862	2.57	7 Aroclor 1254
5.446	896128	771774	0.861	1.98	
5.482	80765	78131	0.967	0.17	
5.510	1969704	1676407	0.851	4.36	7 Aroclor 1254
5.579	47144	42504	0.902	0.10	
5.605	216118	191218	0.885	0.47	
5.675	252559	224190	0.888	0.56	
5.715	234376	167148	0.713	0.51	
5.743	310644	246449	0.793	0.68	
5.792	2446928	1845738	0.754	5.42	
5.889	266957	169822	0.636	0.59	
5.933	85637	65412	0.764	0.18	
5.994	246976	234339	0.949	0.54	
6.026	1381260	1187842	0.860	3.06	7 Aroclor 1254
6.056	1120582	941314	0.840	2.48	
6.169	321931	239989	0.745	0.71	
6.227	257869	137085	0.532	0.57	
6.300	1730144	1382883	0.799	3.83	7 Aroclor 1254
6.334	239681	214781	0.896	0.53	
6.374	108668	85641	0.788	0.24	
6.435	113588	74345	0.655	0.25	
6.511	384740	348554	0.906	0.85	
6.537	456763	307092	0.672	1.01	
6.605	76183	55654	0.731	0.16	
6.662	33231	29999	0.903	0.07	
6.719	164340	145175	0.883	0.36	
6.759	135510	110948	0.819	0.30	
6.802	271194	228171	0.841	0.60	
6.842	91975	63095	0.686	0.20	
6.944	155351	136098	0.876	0.34	
7.005	354760	311425	0.878	0.78	8 Aroclor 1260
7.035	43064	40898	0.950	0.09	
7.075	10850	10850	1.000	0.02	
7.125	26617	16863	0.634	0.05	
7.252	192053	170499	0.888	0.42	8 Aroclor 1260
7.280	78585	59222	0.754	0.17	
7.390	125596	109045	0.868	0.27	
7.443	116578	98155	0.842	0.25	8 Aroclor 1260
7.551	13601	10757	0.791	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.690	43513	36677	0.843	0.09	
7.728	41301	33976	0.823	0.09	
7.812	60706	37614	0.620	0.13	
7.901	76656	64356	0.840	0.17	8 Aroclor 1260
8.052	99316	76861	0.774	0.22	
8.276	80634	66482	0.824	0.17	
8.378	10883	9547	0.877	0.02	
8.571	3652145	3140567	0.860	8.10	$ 12 Decachlorobiphenyl
8.726	17142	12142	0.708	0.03	
9.057	10966	8858	0.808	0.02	
9.960	13467	10095	0.750	0.02	
	45085462	38097079		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718007.D
Lab Smp Id: 40157830013 Client Smp ID: TD1-170619-01-YB-03
Inj Date : 17-APR-2018 12:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830013 x3,
Misc Info : 17670,BIOTA
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: 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	9.997	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		
Qualifier signal(s) failed ratio test.								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	3665310	0.02973	45			
3 Aroclor 1242						CAS #: 53469-21-9		
Operator disabled compound identification.								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1344415	0.57381	860	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1456281	0.35089	530	0.00- 20.00	108.32	BA
4.813	4.812	0.001	1393740	0.68654	1000	0.00- 20.00	103.67	BA
4.878	4.879	-0.001	3239799	0.64314	960	0.00- 20.00	240.98	BA
5.037	5.038	-0.001	1155123	0.32189	480	0.00- 20.00	85.92	BA
Average of Peak Concentrations =					770			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1443655	0.27576	410	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	1158991	0.26947	400	0.00- 20.00	80.28	BA
5.510	5.510	0.000	1969704	0.25363	380	0.00- 20.00	136.44	BA
6.025	6.027	-0.002	1381260	0.28364	420	0.00- 20.00	95.68	BA
6.299	6.299	0.000	1730143	0.26589	400	0.00- 20.00	119.84	BA
Average of Peak Concentrations =					400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	354760	0.03543	53	0.00- 20.00	20.50	BA
7.251	7.251	0.000	192053	0.04018	60	0.00- 20.00	11.10	BA
7.442	7.443	-0.001	116578	0.03999	60	0.00- 20.00	6.74	BA
7.900	7.901	-0.001	76655	0.02905	44	0.00- 20.00	4.43	BA
Average of Peak Concentrations =					54			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3652145	0.03333	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\041718.b\041718007.D

Date : 17-APR-2018 12:43

Client ID: TD1-170619-01-YB-03

Instrument: 40GCSJ.i

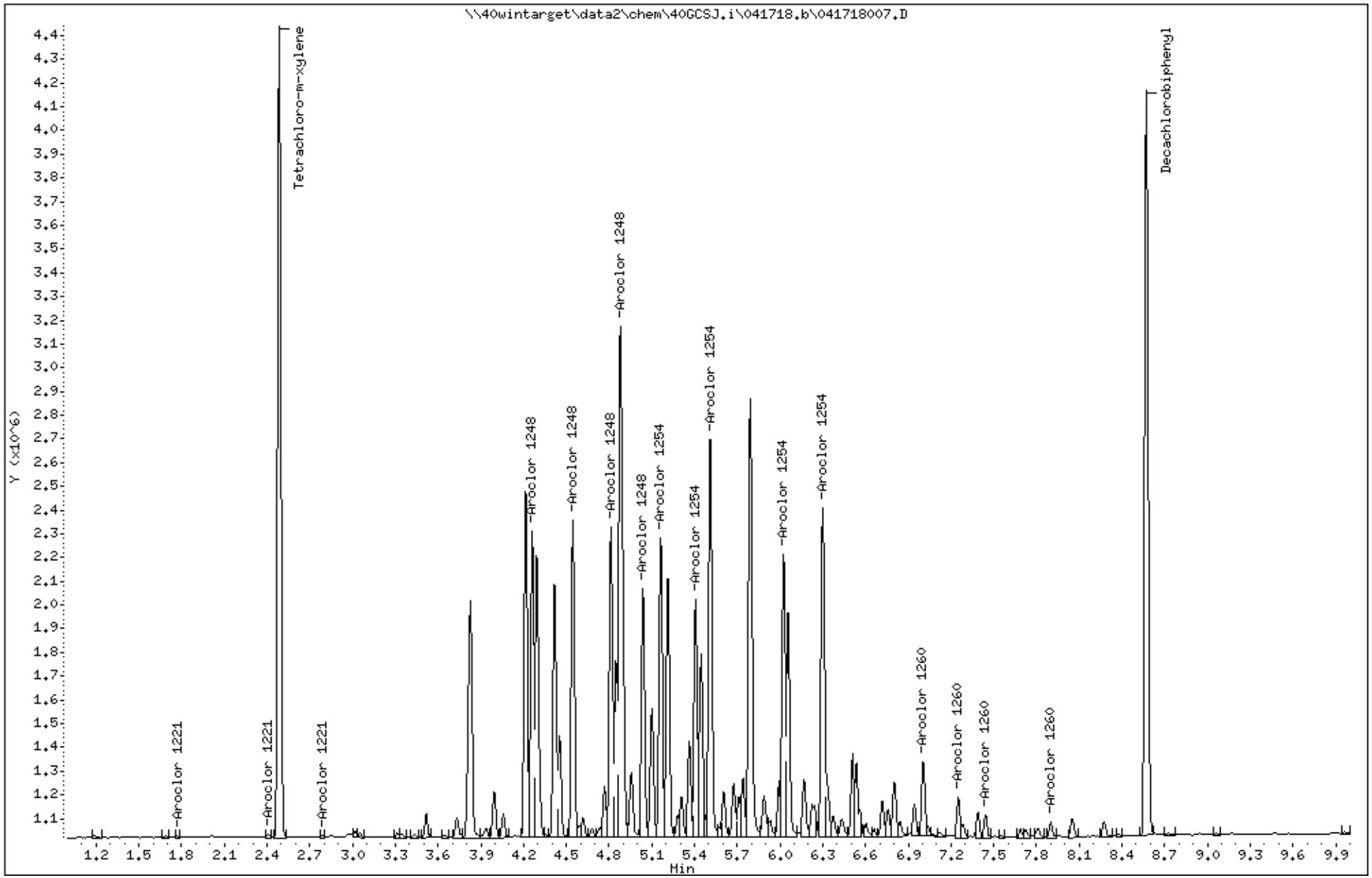
Sample Info: 40157830013 x3,

Volume Injected (uL): 1.0

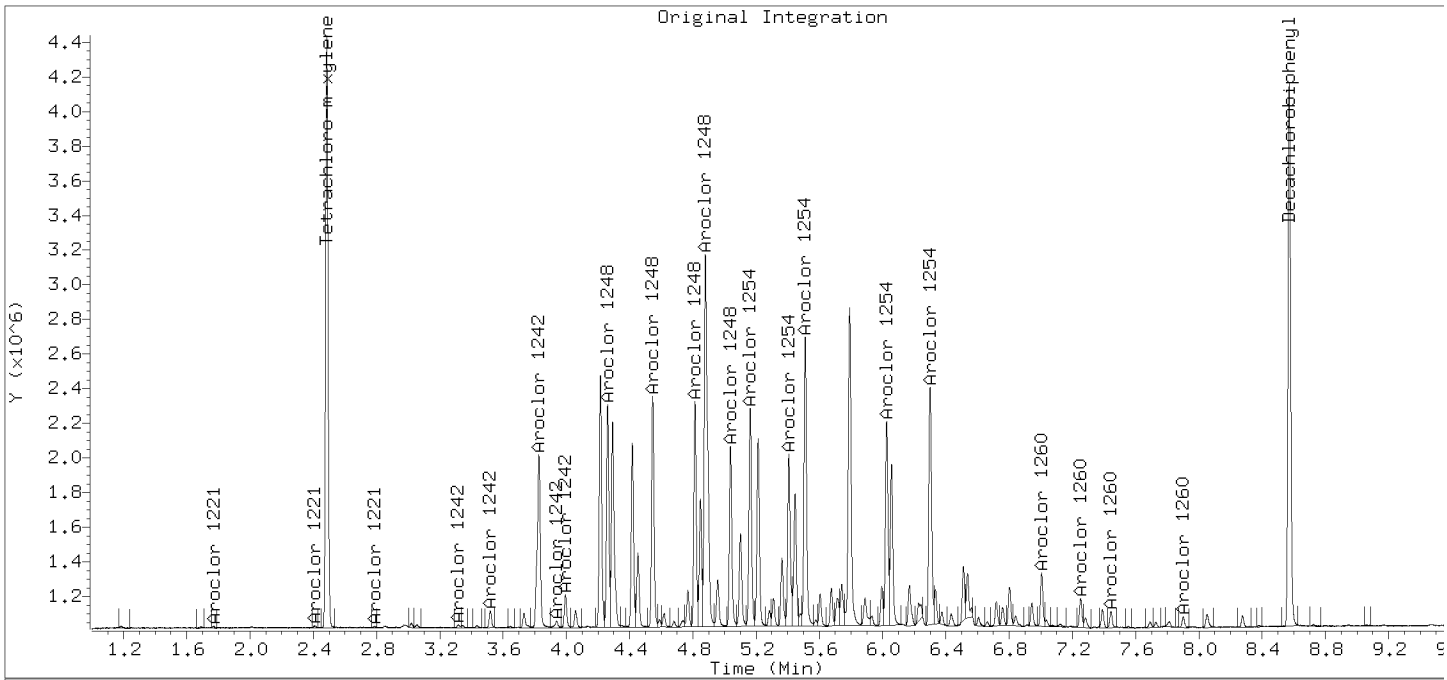
Operator: BLM

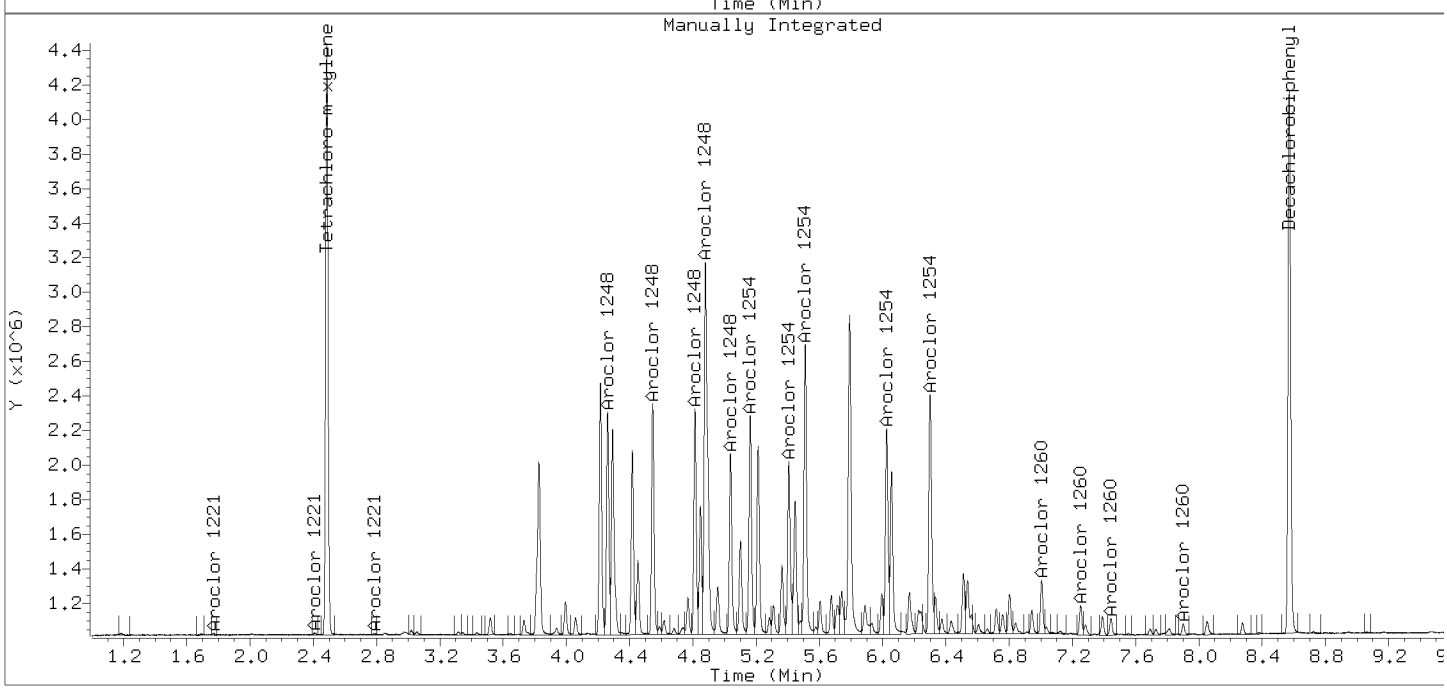
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 12:43 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830013





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	24958	0	
Aroclor 1016	24958	0	
Aroclor 1016	24958	0	
Aroclor 1016	24958	0	
Aroclor 1016	24958	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	24958	0	
Aroclor 1242	24958	0	
Aroclor 1242	24958	0	
Aroclor 1242	24958	0	
Aroclor 1242	24958	0	
Aroclor 1248	1338501	1344415	BA
Aroclor 1248	1338501	1344415	BA
Aroclor 1248	1338501	1344415	BA
Aroclor 1248	1338501	1344415	BA
Aroclor 1248	1338501	1344415	BA
Aroclor 1254	1422146	1443655	BA
Aroclor 1254	1422146	1443655	BA
Aroclor 1254	1422146	1443655	BA
Aroclor 1254	1422146	1443655	BA
Aroclor 1254	1422146	1443655	BA
Aroclor 1260	1691633	0	BA
Aroclor 1260	1691633	0	BA
Aroclor 1260	1691633	0	BA
Aroclor 1260	1691633	0	BA
Aroclor 1260	1691633	0	BA
Tetrachloro-m-xylene	3665310	3665310	
Decachlorobiphenyl	3652145	3652145	

==========

SAMPLE NO.

TD1-170619-01-SMB-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/10/2018 07:13
Lab Sample ID: 40157830014
Date Analyzed: 04/11/2018 20:05
Lab File ID: 041118.B\041118025.D
Initial wt/vol: 10.0212 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)	<56.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<56.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<56.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	1750	
11097-69-1	PCB-1254 (Aroclor 1254)	1360	
11096-82-5	PCB-1260 (Aroclor 1260)	353	
1336-36-3	PCB, Total	3460	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118025.D
Lab Smp Id: 40157830014 Client Smp ID: TD1-170619-01-SMB-1
Inj Date : 11-APR-2018 20:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830014 x5,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.021	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.888	9364	4943	0.528	0.01		
2.411	21128	14141	0.669	0.02		
2.485	2235694	2048137	0.916	3.09	$ 2 Tetrachloro-m-xylene	
2.851	22066	12255	0.555	0.03		
2.975	14218	8831	0.621	0.01		
3.055	29648	21913	0.739	0.04		
3.319	32333	28696	0.888	0.04		
3.343	39123	36479	0.932	0.05		
3.432	45040	40152	0.891	0.06		
3.520	105961	89223	0.842	0.14		
3.646	11795	10414	0.883	0.01		
3.732	70784	67720	0.957	0.09		
3.752	42922	37778	0.880	0.05		
3.827	653464	451102	0.690	0.90		
3.937	120051	87331	0.727	0.16		
3.994	183690	168101	0.915	0.25		
4.059	97067	83324	0.858	0.13		
4.137	25130	20006	0.796	0.03		
4.215	1766601	1610312	0.912	2.44		
4.261	1834003	1727705	0.942	2.54	6 Aroclor 1248	BA
4.292	1868810	1489273	0.797	2.58		
4.417	1075119	1018933	0.948	1.48		
4.453	862324	759718	0.881	1.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.545	1628247	1501094	0.922	2.25	6 Aroclor 1248
4.589	67512	62399	0.924	0.09	
4.617	183508	168967	0.921	0.25	
4.680	98642	84930	0.861	0.13	
4.728	187169	135822	0.726	0.25	
4.768	320119	300883	0.940	0.44	
4.812	1805911	1726760	0.956	2.50	6 Aroclor 1248
4.847	1326084	1255995	0.947	1.83	
4.878	4305638	2856765	0.663	5.96	6 Aroclor 1248
4.956	593944	523401	0.881	0.82	
5.036	2115428	1988463	0.940	2.93	6 Aroclor 1248
5.100	1152652	995817	0.864	1.59	
5.162	3015683	2673033	0.886	4.17	7 Aroclor 1254
5.212	2267685	2022221	0.892	3.14	
5.284	176635	165455	0.937	0.24	
5.309	332561	274592	0.826	0.46	
5.362	1217083	1117242	0.918	1.68	
5.406	2278688	1935922	0.850	3.15	7 Aroclor 1254
5.446	1540542	1302487	0.845	2.13	
5.482	157621	158694	1.007	0.21	
5.509	3451425	3055633	0.885	4.78	7 Aroclor 1254
5.576	74192	67523	0.910	0.10	
5.603	594585	531308	0.894	0.82	
5.675	564803	529168	0.937	0.78	
5.714	503222	359668	0.715	0.69	
5.741	604006	495392	0.820	0.83	
5.791	5058885	3898950	0.771	7.48	
5.888	425562	333462	0.784	0.58	
5.930	260721	147572	0.566	0.36	
5.994	622721	588270	0.945	0.86	
6.025	2662004	2293103	0.861	3.68	7 Aroclor 1254
6.055	2819782	2414578	0.856	3.90	
6.124	37819	24154	0.639	0.05	
6.169	847551	671599	0.792	1.17	
6.228	338697	334778	0.988	0.46	
6.241	390434	338639	0.867	0.54	
6.298	4109058	3472220	0.845	5.69	7 Aroclor 1254
6.333	585097	529137	0.904	0.81	
6.373	274694	231381	0.842	0.38	
6.432	248667	185308	0.745	0.34	
6.510	1082914	960779	0.887	1.50	
6.535	902238	814141	0.902	1.24	
6.560	358834	327087	0.912	0.49	
6.604	196238	163716	0.834	0.27	
6.661	92431	84598	0.915	0.12	
6.718	461278	403589	0.875	0.63	
6.758	385362	337448	0.876	0.53	
6.801	727667	640673	0.880	1.00	
6.840	239675	179975	0.751	0.33	
6.913	43759	42663	0.975	0.06	
6.942	279148	254061	0.910	0.38	
7.004	1363254	1248619	0.916	1.88	8 Aroclor 1260
7.035	124353	118028	0.949	0.17	
7.075	30524	25264	0.828	0.04	
7.121	41657	32993	0.792	0.05	
7.251	642146	601044	0.936	0.88	8 Aroclor 1260
7.282	200987	172836	0.860	0.27	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.388	475618	412290	0.867	0.65	
7.442	462547	420673	0.909	0.64	8 Aroclor 1260
7.552	42595	34830	0.818	0.05	
7.691	144955	131485	0.907	0.20	
7.727	96680	84042	0.869	0.13	
7.763	9793	9577	0.978	0.01	
7.808	79418	46776	0.589	0.11	
7.900	360486	319840	0.887	0.49	8 Aroclor 1260
7.960	40319	27293	0.677	0.05	
8.048	56904	50515	0.888	0.07	
8.274	284442	257558	0.905	0.39	
8.376	9510	9020	0.949	0.01	
8.570	2426769	2060158	0.849	3.36	$ 12 Decachlorobiphenyl
8.632	9952	8838	0.888	0.01	
8.724	22134	17696	0.799	0.03	
9.167	45717	37072	0.811	0.06	
9.465	19713	12916	0.655	0.02	
9.964	17165	12148	0.708	0.02	
	72188794	61949513		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118025.D
Lab Smp Id: 40157830014 Client Smp ID: TD1-170619-01-SMB-1
Inj Date : 11-APR-2018 20:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830014 x5,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.021	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.484	2.484	0.000	2235693	0.01813	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	1834003	0.78277	2000	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1628247	0.39232	980	0.00- 20.00	88.78	BA
4.812	4.812	0.000	1805911	0.88958	2200	0.00- 20.00	98.47	BA
4.877	4.879	-0.002	4305638	0.85473	2100	0.00- 20.00	234.77	BA
5.036	5.038	-0.002	2115427	0.58949	1500	0.00- 20.00	115.34	BA
Average of Peak Concentrations =					1800			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	3015682	0.57603	1400	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2278687	0.52980	1300	0.00- 20.00	75.56	BA
5.509	5.510	-0.001	3451424	0.44442	1100	0.00- 20.00	114.45	BA
6.024	6.027	-0.003	2662003	0.54665	1400	0.00- 20.00	88.27	BA
6.298	6.299	-0.001	4109057	0.63147	1600	0.00- 20.00	136.26	BA
Average of Peak Concentrations =					1400			
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	1363254	0.13613	340	0.00- 20.00	33.18	BA
7.250	7.251	-0.001	642146	0.13435	340	0.00- 20.00	15.63	BA
7.441	7.443	-0.002	462547	0.15867	400	0.00- 20.00	11.26	BA
7.900	7.901	-0.001	360486	0.13661	340	0.00- 20.00	8.77	BA
Average of Peak Concentrations =					350			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2426768	0.02215	55			

QC Flag Legend

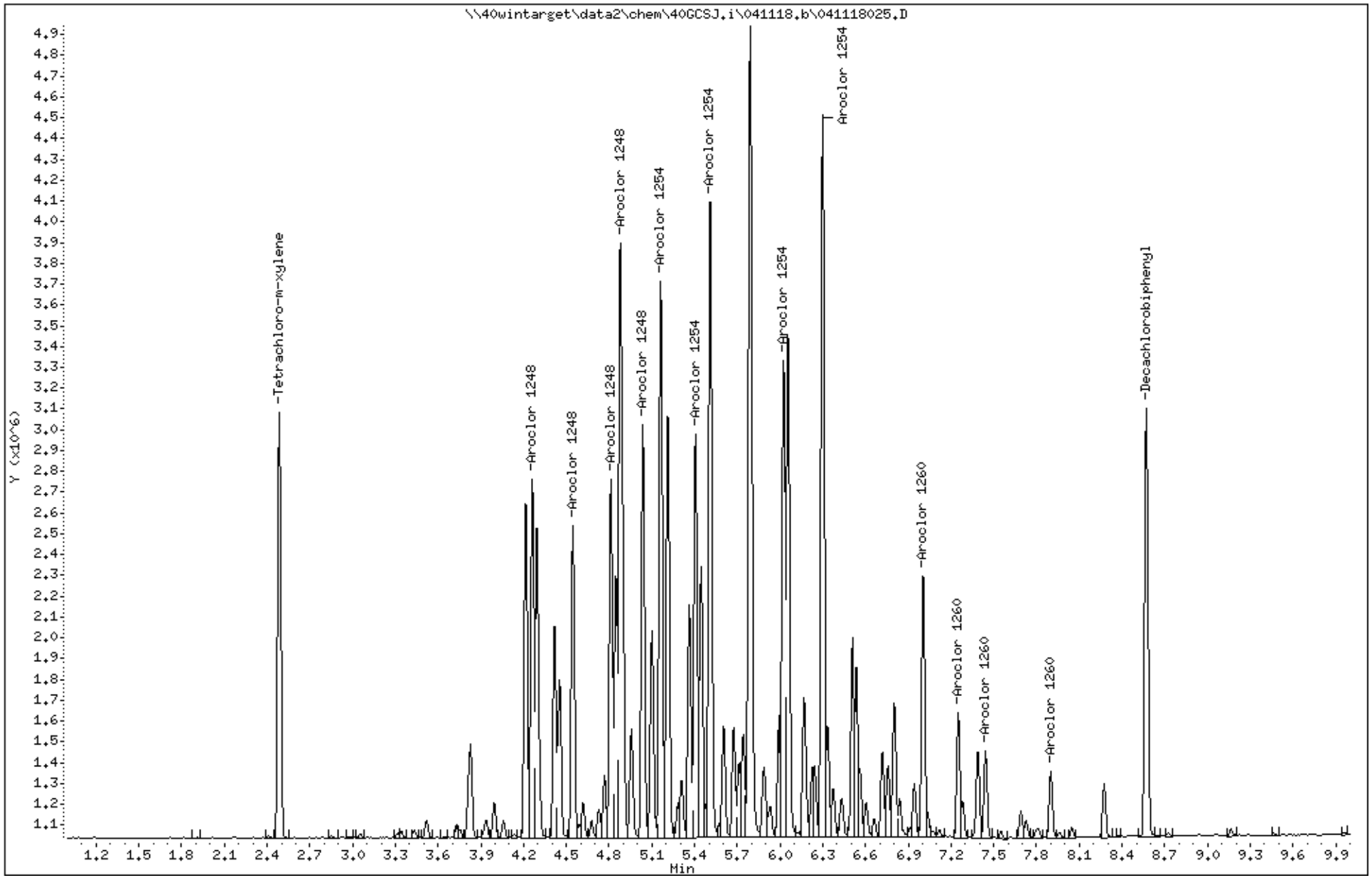
M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118025.D
Date : 11-APR-2018 20:05
Client ID: TD1-170619-01-SMB-1
Sample Info: 40157830014 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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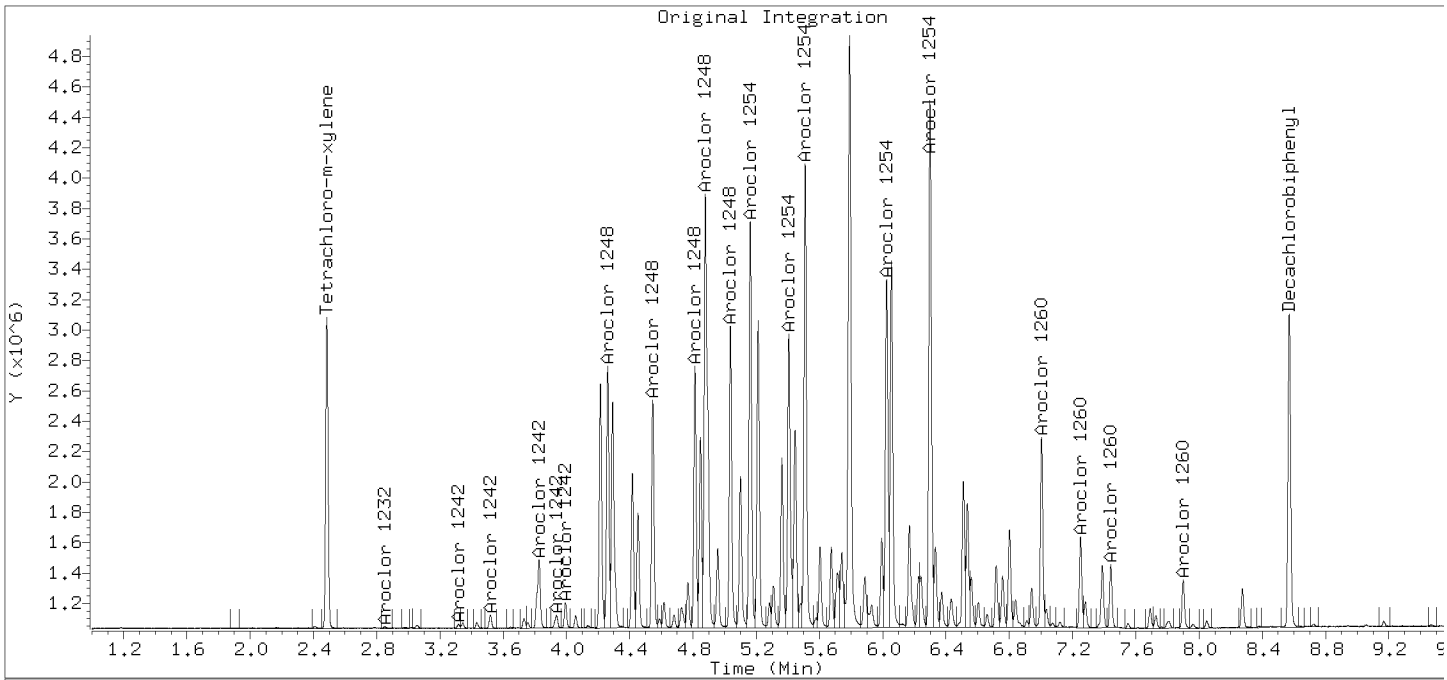
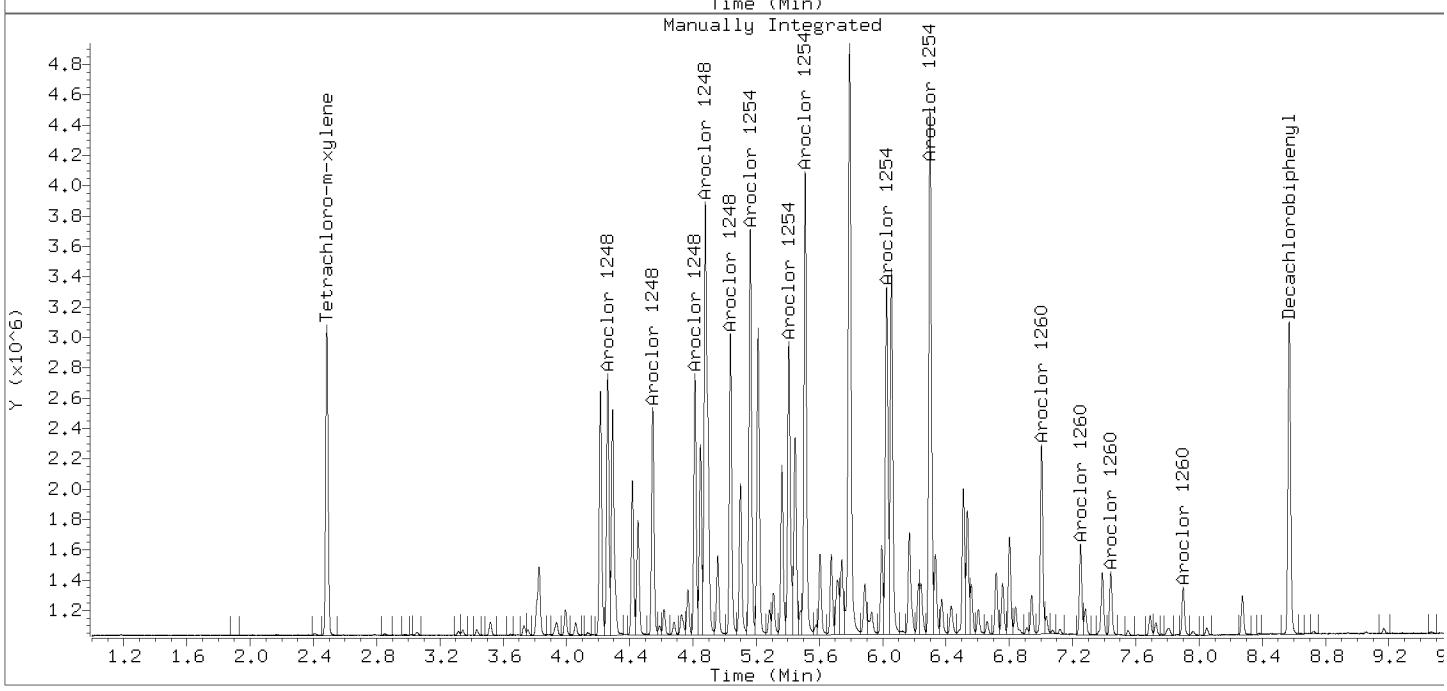
Injection Date: 11-APR-2018 20:05 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	32333	0	
Aroclor 1016	32333	0	
Aroclor 1016	32333	0	
Aroclor 1016	32333	0	
Aroclor 1016	32333	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	22065	0	
Aroclor 1232	22065	0	
Aroclor 1232	22065	0	
Aroclor 1232	22065	0	

Aroclor 1232	22065	0	
Aroclor 1242	32333	0	
Aroclor 1242	32333	0	
Aroclor 1242	32333	0	
Aroclor 1242	32333	0	
Aroclor 1242	32333	0	
Aroclor 1248	1824156	1834003	BA
Aroclor 1248	1824156	1834003	BA
Aroclor 1248	1824156	1834003	BA
Aroclor 1248	1824156	1834003	BA
Aroclor 1248	1824156	1834003	BA
Aroclor 1254	3012030	3015682	BA
Aroclor 1254	3012030	3015682	BA
Aroclor 1254	3012030	3015682	BA
Aroclor 1254	3012030	3015682	BA
Aroclor 1254	3012030	3015682	BA
Aroclor 1260	4111177	0	BA
Aroclor 1260	4111177	0	BA
Aroclor 1260	4111177	0	BA
Aroclor 1260	4111177	0	BA
Aroclor 1260	4111177	0	BA
Tetrachloro-m-xylene	2235693	2235693	
Decachlorobiphenyl	2426768	2426768	

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SAMPLE NO.

TD1-170619-01-SMB-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/10/2018 07:13
Lab Sample ID: 40157830015
Date Analyzed: 04/11/2018 20:21
Lab File ID: 041118.B\041118026.D
Initial wt/vol: 10.025 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)	<45.5	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.5	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.5	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.5	U
12672-29-6	PCB-1248 (Aroclor 1248)	1060	
11097-69-1	PCB-1254 (Aroclor 1254)	809	
11096-82-5	PCB-1260 (Aroclor 1260)	213	
1336-36-3	PCB, Total	2080	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118026.D
Lab Smp Id: 40157830015 Client Smp ID: TD1-170619-01-SMB-0
Inj Date : 11-APR-2018 20:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830015 x4,
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: 26
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	10.025	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.409	23093	17406	0.754	0.04		1 Aroclor 1221	
2.485	2526670	2316709	0.917	4.43	$	2 Tetrachloro-m-xylene	
2.787	11169	9689	0.868	0.01		1 Aroclor 1221	
2.852	19299	17017	0.882	0.03		1 Aroclor 1221	
2.975	12561	9265	0.738	0.02			
3.057	28889	25390	0.879	0.05			
3.318	44683	39592	0.886	0.07			
3.344	52610	46800	0.890	0.09			
3.435	48374	42294	0.874	0.08			
3.518	118487	104399	0.881	0.20			
3.642	9290	8557	0.921	0.01			
3.732	70722	68295	0.966	0.12			
3.757	40303	39409	0.978	0.07			
3.827	645207	433612	0.672	1.13			
3.936	129611	87047	0.672	0.22			
3.993	166712	154186	0.925	0.29			
4.059	94857	84476	0.891	0.16			
4.136	26275	19278	0.734	0.04			
4.214	1380280	1256601	0.910	2.42			
4.260	1411170	1345528	0.953	2.47		6 Aroclor 1248	BA
4.292	1502871	1209441	0.805	2.63			
4.416	885607	849802	0.960	1.55			
4.453	676573	616007	0.910	1.18			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.545	1262925	1190759	0.943	2.21	6 Aroclor 1248
4.586	57947	50996	0.880	0.10	
4.617	161600	139745	0.865	0.28	
4.680	72788	65522	0.900	0.12	
4.727	147603	102607	0.695	0.25	
4.767	252055	236865	0.940	0.44	
4.811	1385440	1336968	0.965	2.43	6 Aroclor 1248
4.847	1065946	1016132	0.953	1.86	
4.879	3169651	2000686	0.631	5.56	6 Aroclor 1248
4.956	440629	371608	0.843	0.77	
5.037	1578847	1436377	0.910	2.76	6 Aroclor 1248
5.101	861112	730793	0.849	1.51	
5.162	2204173	1945537	0.883	3.86	7 Aroclor 1254
5.211	1825521	1615641	0.885	3.20	
5.283	134806	129041	0.957	0.23	
5.309	244169	209354	0.857	0.42	
5.362	896912	803351	0.896	1.57	
5.406	1654215	1433917	0.867	2.90	7 Aroclor 1254
5.446	1213924	1047953	0.863	2.12	
5.481	116206	124112	1.068	0.20	
5.509	2482571	2179907	0.878	4.35	7 Aroclor 1254
5.578	58246	55205	0.948	0.10	
5.603	440896	390207	0.885	0.77	
5.673	377866	353085	0.934	0.66	
5.713	360654	257678	0.714	0.63	
5.741	511596	368577	0.720	0.89	
5.789	3763529	2979324	0.792	7.05	
5.886	372216	247728	0.666	0.65	
5.930	153260	112537	0.734	0.26	
5.992	468650	440972	0.941	0.82	
6.023	2046635	1744472	0.852	3.59	7 Aroclor 1254
6.055	2234989	1926527	0.862	3.92	
6.169	594575	468549	0.788	1.04	
6.225	270224	261417	0.967	0.47	
6.240	282241	249537	0.884	0.49	
6.299	3139319	2655006	0.846	5.50	7 Aroclor 1254
6.333	437202	385217	0.881	0.76	
6.373	197598	167121	0.846	0.34	
6.432	191059	141520	0.741	0.33	
6.508	831235	770652	0.927	1.45	
6.535	654880	609491	0.931	1.14	
6.559	288579	259569	0.899	0.50	
6.605	144452	126226	0.874	0.25	
6.660	67001	61594	0.919	0.11	
6.718	333403	296250	0.889	0.58	
6.758	294207	262315	0.892	0.51	
6.801	543346	503159	0.926	0.95	
6.840	185208	133450	0.721	0.32	
6.912	31010	32162	1.037	0.05	
6.943	231190	210764	0.912	0.40	
7.004	1051465	933925	0.888	1.84	8 Aroclor 1260
7.035	93069	85326	0.917	0.16	
7.076	21053	20894	0.992	0.03	
7.122	32937	25955	0.788	0.05	
7.250	490671	443020	0.903	0.86	8 Aroclor 1260
7.281	155580	133838	0.860	0.27	
7.388	356531	308565	0.865	0.62	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.442	349604	301246	0.862	0.61	8 Aroclor 1260
7.550	28852	26163	0.907	0.05	
7.616	13103	7284	0.556	0.02	
7.690	110786	99374	0.897	0.19	
7.725	72162	62505	0.866	0.12	
7.760	11084	9274	0.837	0.01	
7.810	69181	41712	0.603	0.12	
7.899	263627	226792	0.860	0.46	8 Aroclor 1260
7.963	30488	20084	0.659	0.05	
8.049	94651	77588	0.820	0.16	
8.273	192373	173403	0.901	0.33	
8.569	2807740	2356433	0.839	4.92	$ 12 Decachlorobiphenyl
8.721	19825	17681	0.892	0.03	
9.059	14170	12146	0.857	0.02	
9.168	30963	27342	0.883	0.05	
9.471	14222	10218	0.718	0.02	
9.961	20033	13152	0.657	0.03	
	57003787	48872902		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118026.D
Lab Smp Id: 40157830015 Client Smp ID: TD1-170619-01-SMB-0
Inj Date : 11-APR-2018 20:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830015 x4,
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: 26
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	10.025	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

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

2.484	2.484	0.000	2526670	0.02049	41			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1411169	0.60230	1200	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1262924	0.30430	610	0.00- 20.00	89.49	BA
4.811	4.812	-0.001	1385439	0.68246	1400	0.00- 20.00	98.18	BA
4.878	4.879	-0.001	3169650	0.62922	1200	0.00- 20.00	224.61	BA
5.037	5.038	-0.001	1578847	0.43997	880	0.00- 20.00	111.88	BA
Average of Peak Concentrations =					1100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2204172	0.42103	840	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1654215	0.38461	770	0.00- 20.00	75.05	BA
5.508	5.510	-0.002	2482571	0.31967	640	0.00- 20.00	112.63	BA
6.023	6.027	-0.004	2046634	0.42028	840	0.00- 20.00	92.85	BA
6.299	6.299	0.000	3139318	0.48244	960	0.00- 20.00	142.43	BA
Average of Peak Concentrations =					810			
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	1051465	0.10500	210	0.00- 20.00	33.49	BA
7.250	7.251	-0.001	490671	0.10266	200	0.00- 20.00	15.63	BA
7.442	7.443	-0.001	349603	0.11993	240	0.00- 20.00	11.14	BA
7.899	7.901	-0.002	263626	0.09991	200	0.00- 20.00	8.40	BA
Average of Peak Concentrations =					210			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2807739	0.02563	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\041118026.D

Date : 11-APR-2018 20:21

Client ID: TD1-170619-01-SMB-0

Instrument: 40GCSJ.i

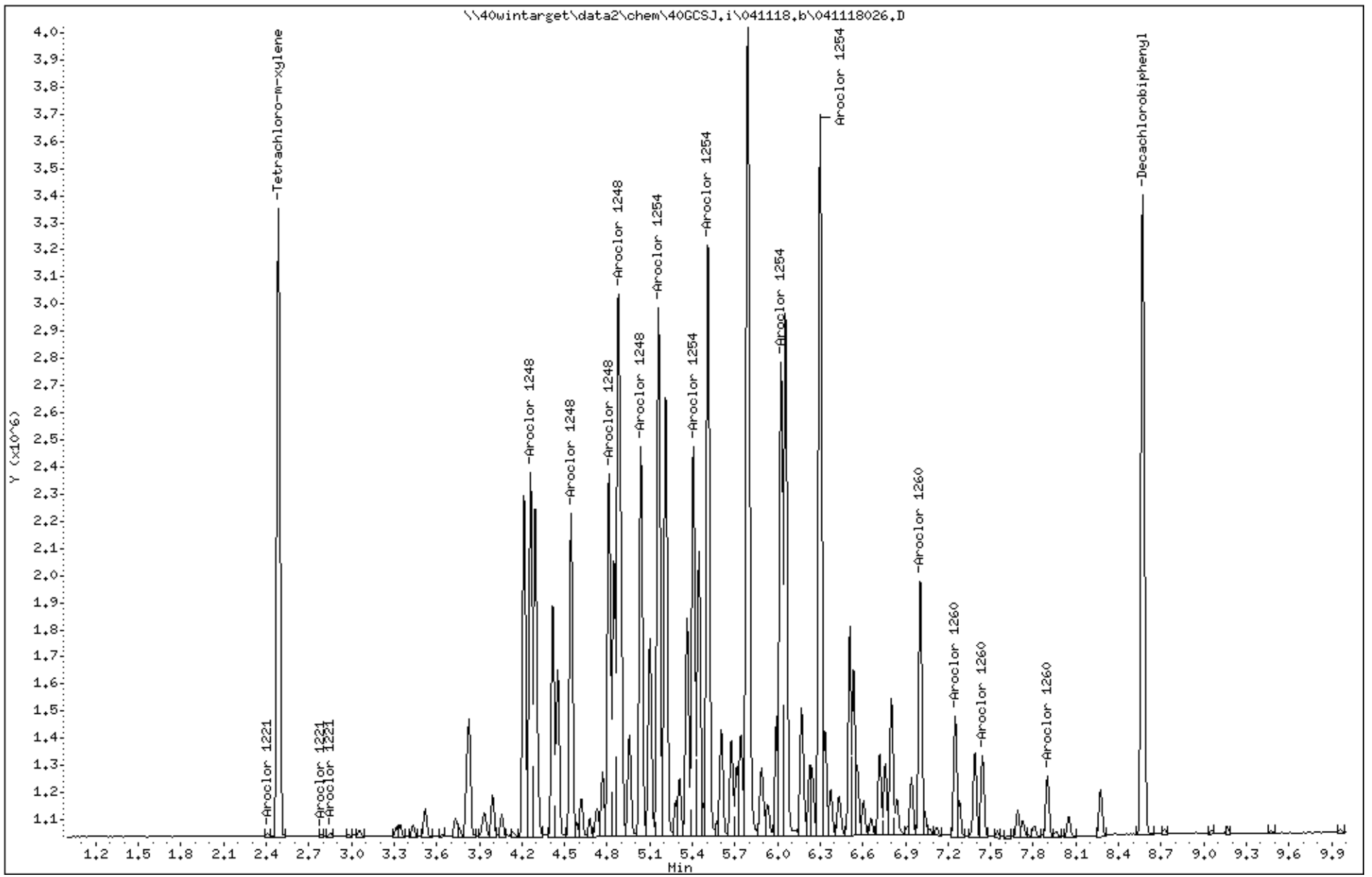
Sample Info: 40157830015 x4,

Volume Injected (uL): 1.0

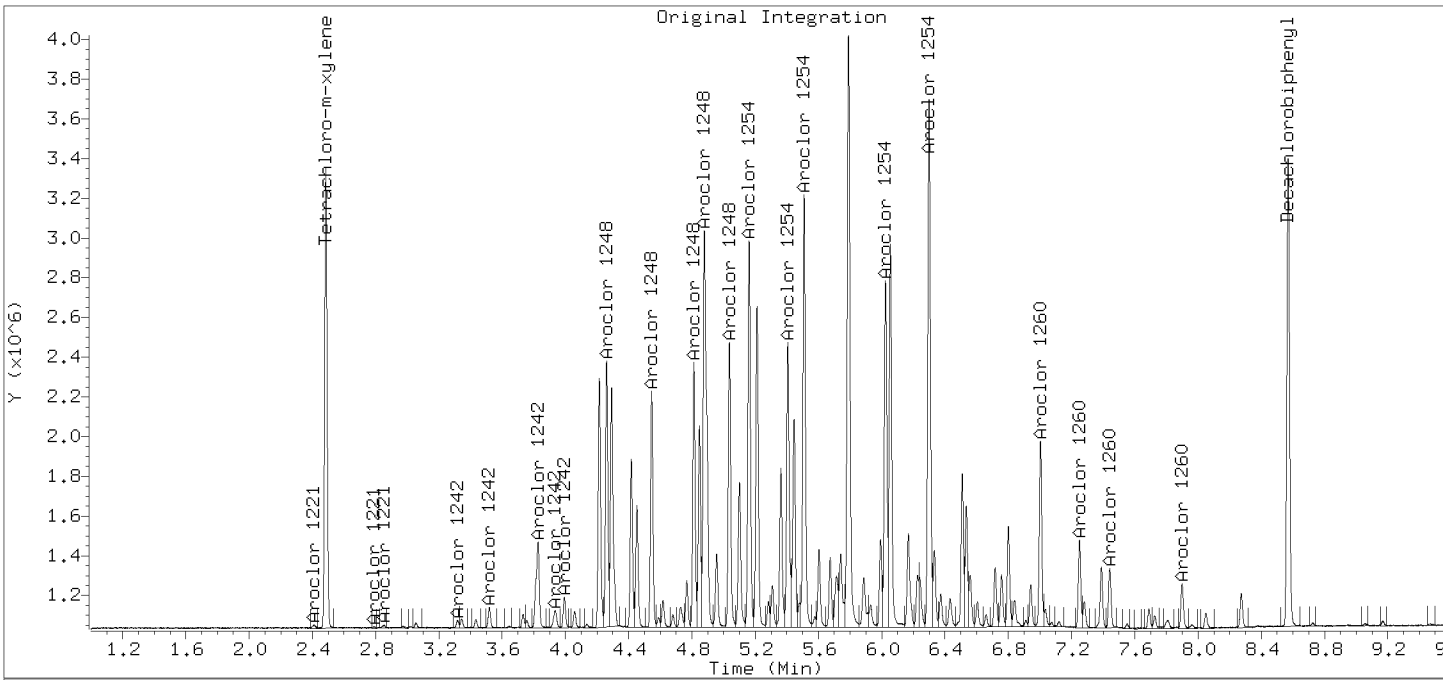
Operator: BLM

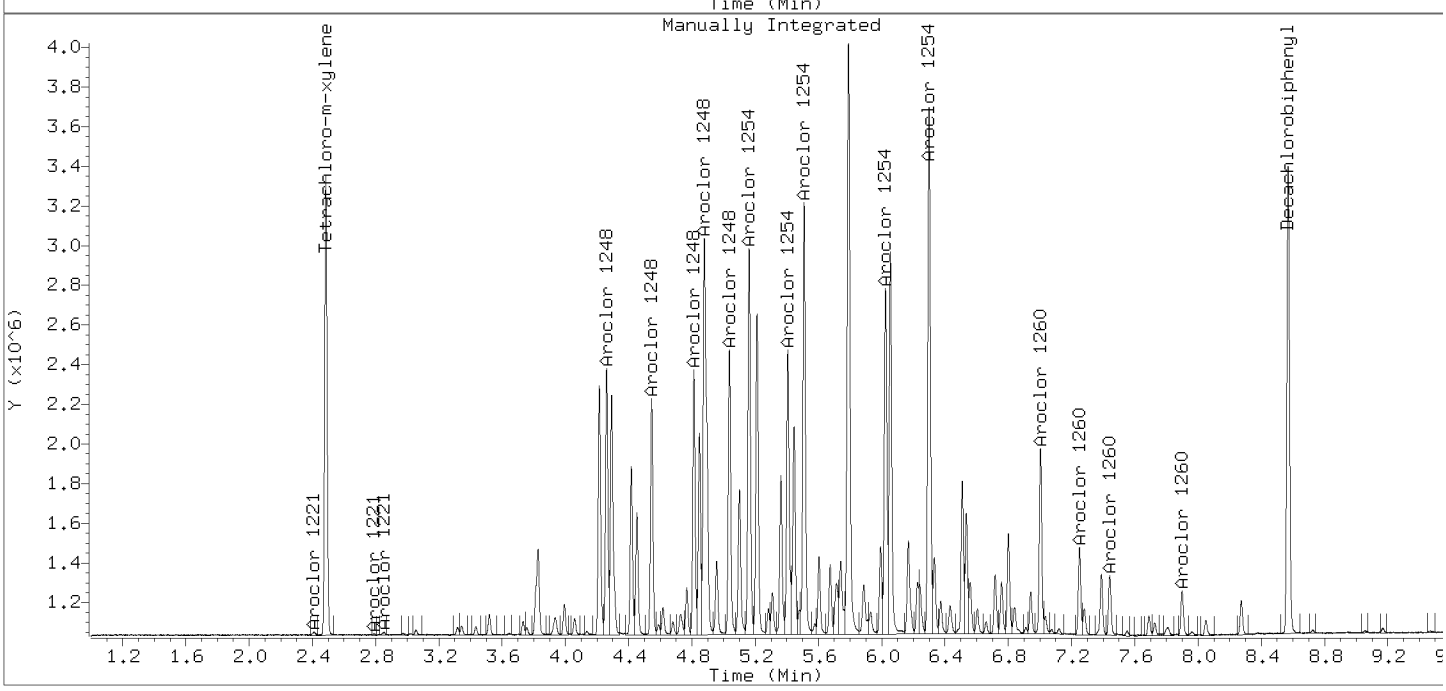
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b/041118026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 20:21 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830015





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	44683	0	
Aroclor 1016	44683	0	
Aroclor 1016	44683	0	
Aroclor 1016	44683	0	
Aroclor 1016	44683	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	19298	0	
Aroclor 1232	19298	0	
Aroclor 1232	19298	0	
Aroclor 1232	19298	0	

Aroclor 1232	19298	0	
Aroclor 1242	44683	0	
Aroclor 1242	44683	0	
Aroclor 1242	44683	0	
Aroclor 1242	44683	0	
Aroclor 1242	44683	0	
Aroclor 1248	1396037	1411169	BA
Aroclor 1248	1396037	1411169	BA
Aroclor 1248	1396037	1411169	BA
Aroclor 1248	1396037	1411169	BA
Aroclor 1248	1396037	1411169	BA
Aroclor 1254	2198032	2204172	BA
Aroclor 1254	2198032	2204172	BA
Aroclor 1254	2198032	2204172	BA
Aroclor 1254	2198032	2204172	BA
Aroclor 1254	2198032	2204172	BA
Aroclor 1260	3139182	0	BA
Aroclor 1260	3139182	0	BA
Aroclor 1260	3139182	0	BA
Aroclor 1260	3139182	0	BA
Aroclor 1260	3139182	0	BA
Tetrachloro-m-xylene	2526670	2526670	
Decachlorobiphenyl	2807739	2807739	

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SAMPLE NO.

TD1-170619-01-SMB-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/17/2018 07:09
Lab Sample ID: 40157830016
Date Analyzed: 04/18/2018 15:20
Lab File ID: 041818.B\041818012.D
Initial wt/vol: 9.9901 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)	764	
11097-69-1	PCB-1254 (Aroclor 1254)	579	
11096-82-5	PCB-1260 (Aroclor 1260)	113	J
1336-36-3	PCB, Total	1460	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818012.D
Lab Smp Id: 40157830016 Client Smp ID: TD1-170619-01-SMB-0
Inj Date : 18-APR-2018 15:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830016 x3,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
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	9.990	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.409	17093	11741	0.687	0.03		
2.484	3758354	3547049	0.944	6.77	$ 2 Tetrachloro-m-xylene	
2.850	11627	10048	0.864	0.02		
2.973	16033	10393	0.648	0.02		
3.055	22928	22202	0.968	0.04		
3.318	45457	43903	0.966	0.08		
3.344	50188	45273	0.902	0.09		
3.434	36087	29645	0.821	0.06		
3.518	94406	85301	0.904	0.17		
3.732	55375	52575	0.949	0.09		
3.755	36505	33571	0.920	0.06		
3.826	699685	504208	0.721	1.26		
3.934	134001	92676	0.692	0.24		
3.994	169188	157615	0.932	0.30		
4.058	103034	93115	0.904	0.18		
4.138	24883	19593	0.787	0.04		
4.214	1396305	1290856	0.924	2.51		
4.261	1370377	1297268	0.947	2.46	6 Aroclor 1248	BA
4.292	1224184	967719	0.791	2.20		
4.416	1049582	994449	0.947	1.89		
4.453	715820	652757	0.912	1.29		
4.545	1282211	1202128	0.938	2.31	6 Aroclor 1248	BA
4.586	39891	38442	0.964	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.618	186312	163289	0.876	0.33	
4.680	59346	51391	0.866	0.10	
4.726	119268	84235	0.706	0.21	
4.768	201482	190564	0.946	0.36	
4.813	1205698	1146642	0.951	2.17	6 Aroclor 1248
4.847	1126700	1066559	0.947	2.03	
4.878	3230482	2044944	0.633	5.82	6 Aroclor 1248
4.957	418697	347724	0.830	0.75	
5.037	1494693	1352453	0.905	2.69	6 Aroclor 1248
5.100	858137	733736	0.855	1.54	
5.162	2096975	1838189	0.877	3.77	7 Aroclor 1254
5.212	1593091	1431472	0.899	2.87	
5.283	118057	113439	0.961	0.21	
5.308	224281	186336	0.831	0.40	
5.362	884618	816472	0.923	1.59	
5.406	1553805	1351819	0.870	2.80	7 Aroclor 1254
5.445	1066847	927818	0.870	1.92	
5.479	120872	120149	0.994	0.21	
5.509	2594059	2241961	0.864	4.67	7 Aroclor 1254
5.577	52031	46785	0.899	0.09	
5.603	441226	391934	0.888	0.79	
5.674	360497	323182	0.896	0.64	
5.712	356424	247441	0.694	0.64	
5.741	402708	328360	0.815	0.72	
5.790	3497811	2653421	0.759	6.30	
5.886	296255	219901	0.742	0.53	
5.929	180368	95283	0.528	0.32	
5.994	403263	377423	0.936	0.72	
6.024	1844561	1579270	0.856	3.32	7 Aroclor 1254
6.055	2051688	1712185	0.835	3.69	
6.168	581625	470845	0.810	1.04	
6.227	453817	244971	0.540	0.81	
6.298	2958806	2460632	0.832	5.33	7 Aroclor 1254
6.332	415031	371172	0.894	0.74	
6.373	205759	170750	0.830	0.37	
6.432	149775	103562	0.691	0.26	
6.509	621979	584042	0.939	1.12	
6.535	648847	571755	0.881	1.16	
6.560	232964	216940	0.931	0.41	
6.604	131890	101885	0.772	0.23	
6.660	60163	52787	0.877	0.10	
6.718	293071	256098	0.874	0.52	
6.757	240435	205472	0.855	0.43	
6.802	467709	415120	0.888	0.84	
6.841	152481	103312	0.678	0.27	
6.910	20613	19714	0.956	0.03	
6.941	153034	137300	0.897	0.27	
7.004	784679	696665	0.888	1.41	8 Aroclor 1260
7.035	72006	66730	0.927	0.12	
7.073	14554	15418	1.059	0.02	
7.120	28615	21677	0.758	0.05	
7.251	401835	366484	0.912	0.72	8 Aroclor 1260
7.279	133458	109775	0.823	0.24	
7.388	224085	193771	0.865	0.40	
7.441	224207	206151	0.919	0.40	8 Aroclor 1260
7.550	18106	18445	1.019	0.03	
7.615	8480	6725	0.793	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.691	72604	66441	0.915	0.13	
7.727	53738	46344	0.862	0.09	
7.805	48335	28376	0.587	0.08	
7.899	165107	137638	0.834	0.29	8 Aroclor 1260
7.961	28884	15378	0.532	0.05	
8.050	43676	34900	0.799	0.07	
8.274	134155	123607	0.921	0.24	
8.570	3803563	3314948	0.872	7.28	$ 12 Decachlorobiphenyl
8.723	12947	9904	0.765	0.02	
9.169	27382	21351	0.780	0.04	
	55481884	47373989		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818012.D
Lab Smp Id: 40157830016 Client Smp ID: TD1-170619-01-SMB-0
Inj Date : 18-APR-2018 15:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830016 x3,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
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	9.990	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		

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

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	3758353	0.03048	46			

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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	1370376	0.58489	880	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1282211	0.30894	460	0.00- 20.00	93.57	BA
4.813	4.812	0.001	1205697	0.59392	890	0.00- 20.00	87.98	BA
4.878	4.879	-0.001	3230482	0.64129	960	0.00- 20.00	235.74	BA
5.036	5.038	-0.002	1494692	0.41652	620	0.00- 20.00	109.07	BA
			Average of Peak Concentrations =		760			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2096974	0.40055	600	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1553805	0.36126	540	0.00- 20.00	74.10	BA
5.509	5.510	-0.001	2594059	0.33402	500	0.00- 20.00	123.70	BA
6.023	6.027	-0.004	1844560	0.37878	570	0.00- 20.00	87.96	BA
6.298	6.299	-0.001	2958806	0.45470	680	0.00- 20.00	141.10	BA
			Average of Peak Concentrations =		580			
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	784678	0.07836	120	0.00- 20.00	26.52	BA
7.250	7.251	-0.001	401834	0.08407	130	0.00- 20.00	13.58	BA
7.441	7.443	-0.002	224206	0.07691	120	0.00- 20.00	7.58	BA
7.899	7.901	-0.002	165106	0.06257	94	0.00- 20.00	5.58	BA
			Average of Peak Concentrations =		110			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3803563	0.03472	52			

QC Flag Legend

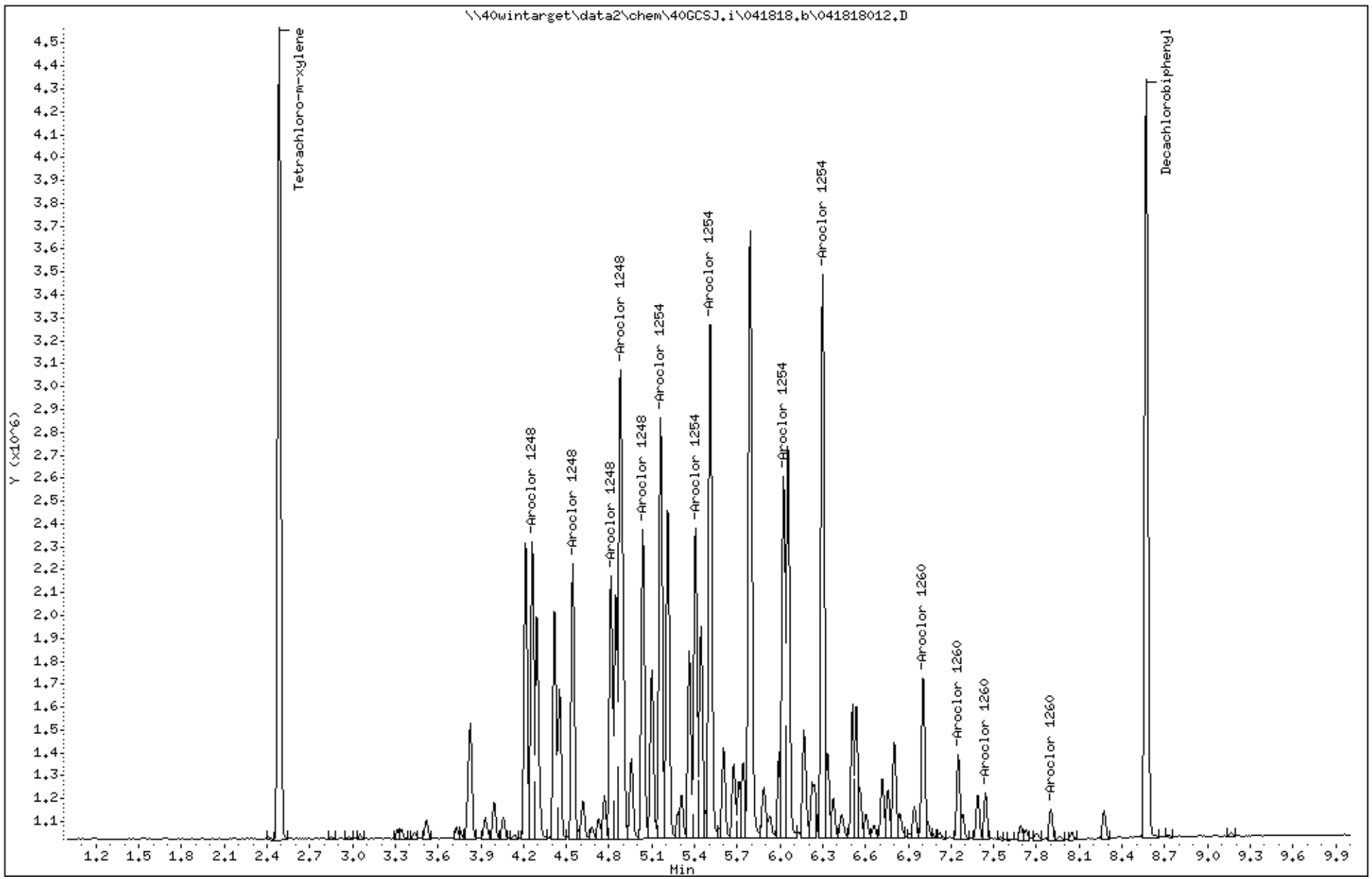
M - Compound response manually integrated.

Review Codes Legend

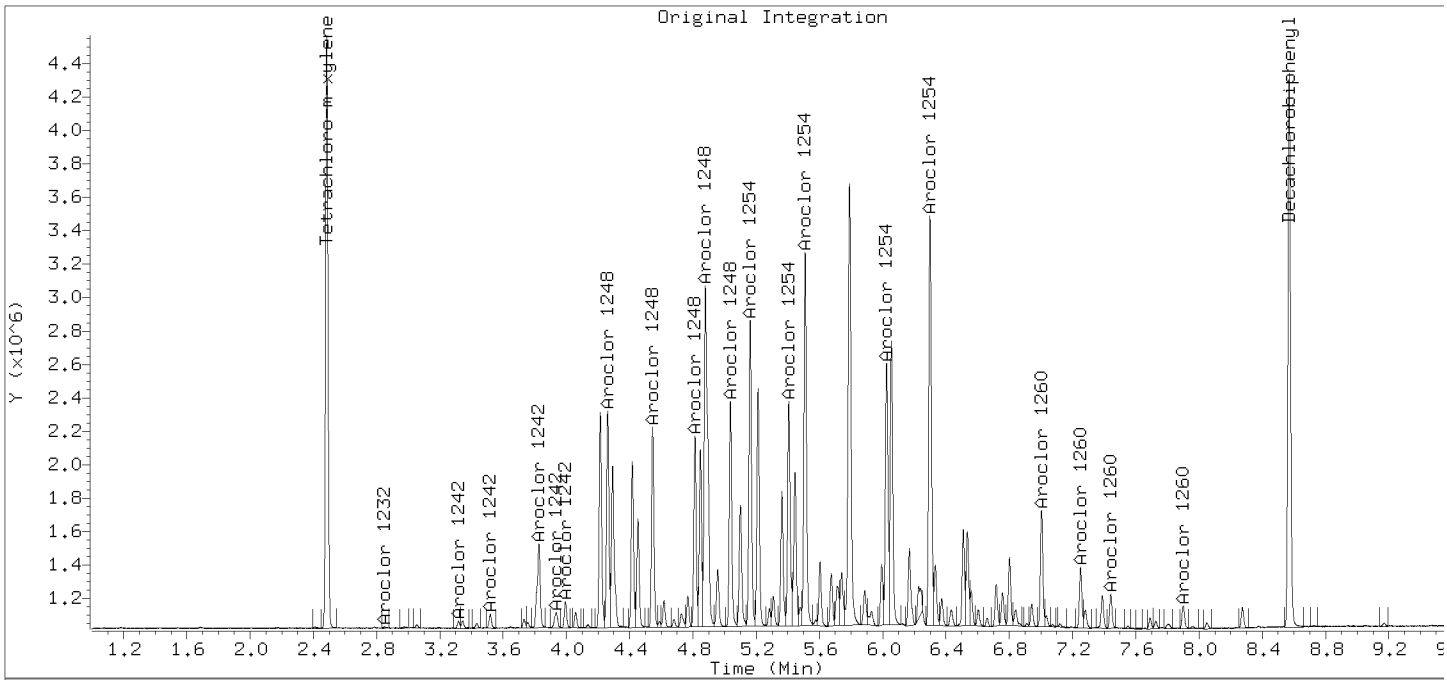
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

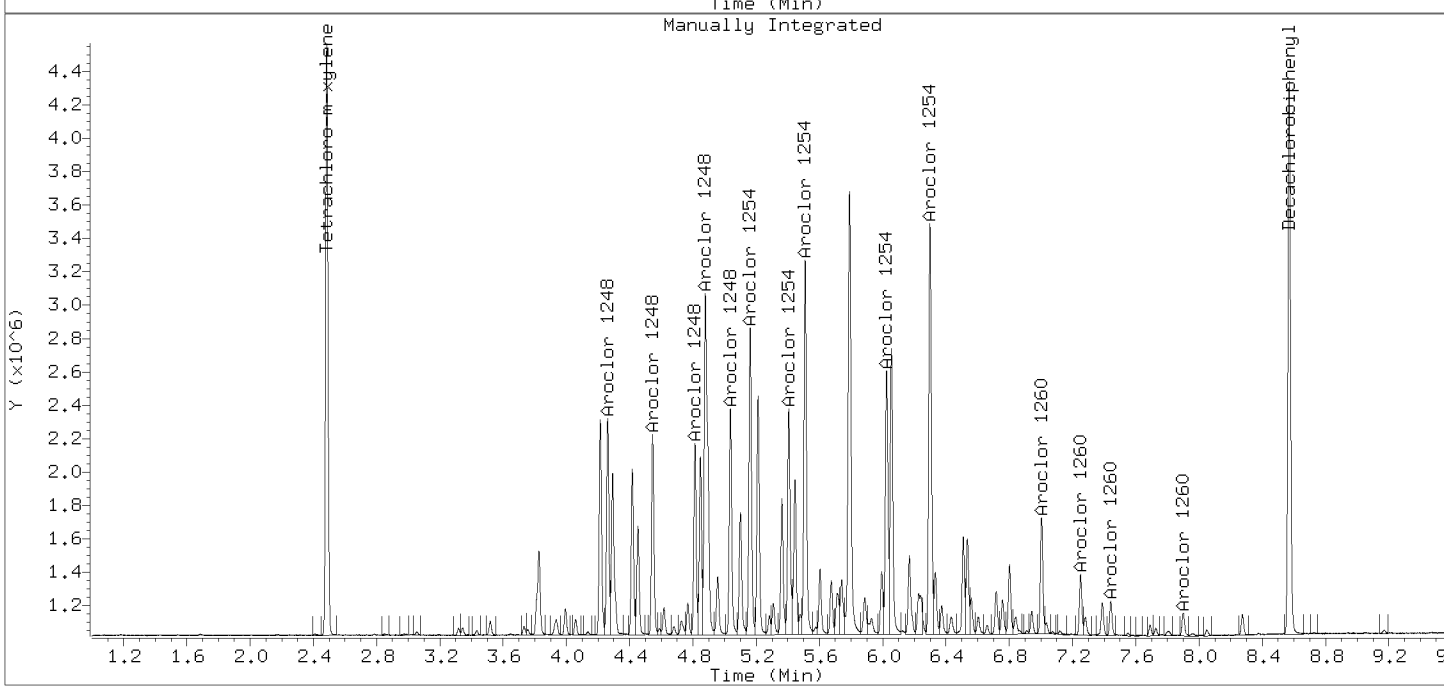
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818012.D
Date : 18-APR-2018 15:20
Client ID: TD1-170619-01-SMB-0
Sample Info: 40157830016 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818012.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 15:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830016





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	45456	0	
Aroclor 1016	45456	0	
Aroclor 1016	45456	0	
Aroclor 1016	45456	0	
Aroclor 1016	45456	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	11626	0	
Aroclor 1232	11626	0	
Aroclor 1232	11626	0	
Aroclor 1232	11626	0	

Aroclor 1232	11626	0	
Aroclor 1242	45456	0	
Aroclor 1242	45456	0	
Aroclor 1242	45456	0	
Aroclor 1242	45456	0	
Aroclor 1242	45456	0	
Aroclor 1248	1361636	1370376	BA
Aroclor 1248	1361636	1370376	BA
Aroclor 1248	1361636	1370376	BA
Aroclor 1248	1361636	1370376	BA
Aroclor 1248	1361636	1370376	BA
Aroclor 1254	2069173	2096974	BA
Aroclor 1254	2069173	2096974	BA
Aroclor 1254	2069173	2096974	BA
Aroclor 1254	2069173	2096974	BA
Aroclor 1254	2069173	2096974	BA
Aroclor 1260	2921590	0	BA
Aroclor 1260	2921590	0	BA
Aroclor 1260	2921590	0	BA
Aroclor 1260	2921590	0	BA
Aroclor 1260	2921590	0	BA
Tetrachloro-m-xylene	3758353	3758353	
Decachlorobiphenyl	3803563	3803563	

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SAMPLE NO.

TD1-170619-01-SMB-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/17/2018 07:09
Lab Sample ID: 40157830017
Date Analyzed: 04/18/2018 15:52
Lab File ID: 041818.B\041818014.D
Initial wt/vol: 10.0089 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)	<45.6	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	798	
11097-69-1	PCB-1254 (Aroclor 1254)	539	
11096-82-5	PCB-1260 (Aroclor 1260)	106	J
1336-36-3	PCB, Total	1440	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818014.D
Lab Smp Id: 40157830017 Client Smp ID: TD1-170619-01-SMB-0
Inj Date : 18-APR-2018 15:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830017 x4,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
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	10.009	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.346	9926	7235	0.729	0.02		
2.485	2715700	2472905	0.911	6.38	$ 2 Tetrachloro-m-xylene	
2.852	11616	10459	0.900	0.02		
2.976	13576	11400	0.840	0.03		
3.057	12564	10744	0.855	0.02		
3.317	34285	32645	0.952	0.08		
3.344	28300	28462	1.006	0.06		
3.434	24720	22515	0.911	0.05		
3.520	124894	108729	0.871	0.29		
3.732	82830	80719	0.975	0.19		
3.755	32287	31434	0.974	0.07		
3.827	947347	668476	0.706	2.22		
3.931	130388	84648	0.649	0.30		
3.994	221018	206972	0.936	0.51		
4.058	107407	95696	0.891	0.25		
4.136	22327	17248	0.773	0.05		
4.214	1390428	1296039	0.932	3.26		
4.261	1084341	1022978	0.943	2.54	6 Aroclor 1248	BA
4.292	947796	686508	0.724	2.22		
4.416	1181053	1094383	0.927	2.77		
4.452	534610	483692	0.905	1.25		
4.545	1271559	1198469	0.943	2.98	6 Aroclor 1248	BA
4.588	40948	38607	0.943	0.09		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.616	165621	143071	0.864	0.38	
4.681	46296	41483	0.896	0.10	
4.732	77835	49274	0.633	0.18	
4.768	145855	135638	0.930	0.34	
4.813	901580	850747	0.944	2.11	6 Aroclor 1248
4.847	596709	569049	0.954	1.40	
4.879	2453864	1421887	0.579	5.76	6 Aroclor 1248
4.957	318945	269253	0.844	0.74	
5.037	1062379	971077	0.914	2.49	6 Aroclor 1248
5.100	672878	577012	0.858	1.58	
5.161	1468620	1268872	0.864	3.45	7 Aroclor 1254
5.212	1067190	950874	0.891	2.50	
5.283	90247	84084	0.932	0.21	
5.310	224100	188392	0.841	0.52	
5.363	557621	500949	0.898	1.31	
5.406	1061104	947354	0.893	2.49	7 Aroclor 1254
5.450	1581337	1294880	0.819	3.71	
5.509	1882134	1648058	0.876	4.42	7 Aroclor 1254
5.575	52719	45570	0.864	0.12	
5.603	292646	258580	0.884	0.68	
5.674	243899	221518	0.908	0.57	
5.712	208996	152865	0.731	0.49	
5.741	311183	228080	0.733	0.73	
5.791	2368376	1784198	0.753	5.56	
5.887	218761	139608	0.638	0.51	
5.929	97610	72545	0.743	0.22	
5.993	312011	296367	0.950	0.73	
6.025	1197920	1028340	0.858	2.81	7 Aroclor 1254
6.055	1596753	1372065	0.859	3.75	
6.169	337104	260099	0.772	0.79	
6.226	148911	154979	1.041	0.35	
6.241	190576	162264	0.851	0.44	
6.298	2168125	1793944	0.827	5.09	7 Aroclor 1254
6.333	276472	232695	0.842	0.64	
6.373	116484	97510	0.837	0.27	
6.433	115510	79168	0.685	0.27	
6.510	394039	363784	0.923	0.92	
6.535	501172	439872	0.878	1.17	
6.560	159631	151835	0.951	0.37	
6.605	91684	78333	0.854	0.21	
6.660	33894	30595	0.903	0.07	
6.716	164422	144901	0.881	0.38	
6.758	153360	131345	0.856	0.36	
6.802	302636	266037	0.879	0.71	
6.841	100941	76936	0.762	0.23	
6.910	11924	13830	1.160	0.02	
6.942	223556	198445	0.888	0.52	
7.004	532128	495969	0.932	1.25	8 Aroclor 1260
7.037	44021	46019	1.045	0.10	
7.099	19344	13713	0.709	0.04	
7.251	285377	249885	0.876	0.67	8 Aroclor 1260
7.281	91908	74150	0.807	0.21	
7.389	147674	130641	0.885	0.34	
7.443	158136	137527	0.870	0.37	8 Aroclor 1260
7.551	18583	12574	0.677	0.04	
7.691	47114	40821	0.866	0.11	
7.727	40278	34254	0.850	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.762	23533	21099	0.897	0.05	
7.813	80178	59902	0.747	0.18	
7.858	11008	9923	0.901	0.02	
7.901	117653	97235	0.826	0.27	8 Aroclor 1260
7.960	39619	25286	0.638	0.09	
8.051	104274	78651	0.754	0.24	
8.275	90582	83193	0.918	0.21	
8.571	2812145	2427722	0.863	7.08	$ 12 Decachlorobiphenyl
8.724	40415	28588	0.707	0.09	
9.054	14334	12789	0.892	0.03	
9.168	87318	69283	0.793	0.20	
	42541177	36048449		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818014.D
Lab Smp Id: 40157830017 Client Smp ID: TD1-170619-01-SMB-0
Inj Date : 18-APR-2018 15:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830017 x4,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
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	10.009	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	2715699	0.02203	44			

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3 Aroclor 1242						CAS #: 53469-21-9		

Operator disabled compound identification.

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4 Aroclor 1232						CAS #: 1114-16-5		

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1084340	0.46280	920	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1271558	0.30638	610	0.00- 20.00	117.27	BA
4.811	4.812	-0.001	901580	0.44411	890	0.00- 20.00	83.15	BA
4.878	4.879	-0.001	2453864	0.48712	970	0.00- 20.00	226.30	BA
5.036	5.038	-0.002	1062378	0.29605	590	0.00- 20.00	97.97	BA
Average of Peak Concentrations =					800			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1468620	0.28053	560	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1061103	0.24671	490	0.00- 20.00	72.25	BA
5.509	5.510	-0.001	1882134	0.24235	480	0.00- 20.00	128.16	BA
6.025	6.027	-0.002	1197920	0.24600	490	0.00- 20.00	81.57	BA
6.298	6.299	-0.001	2168124	0.33319	660	0.00- 20.00	147.63	BA
Average of Peak Concentrations =					540			
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	532128	0.05314	110	0.00- 20.00	26.54	CO
7.251	7.251	0.000	285377	0.05970	120	0.00- 20.00	13.16	CO
7.443	7.443	0.000	158136	0.05425	110	0.00- 20.00	7.29	CO
7.899	7.901	-0.002	117652	0.04459	89	0.00- 20.00	5.43	CO
Average of Peak Concentrations =					100			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2812145	0.02567	51			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818014.D

Date : 18-APR-2018 15:52

Client ID: TD1-170619-01-SMB-0

Instrument: 40GCSJ.i

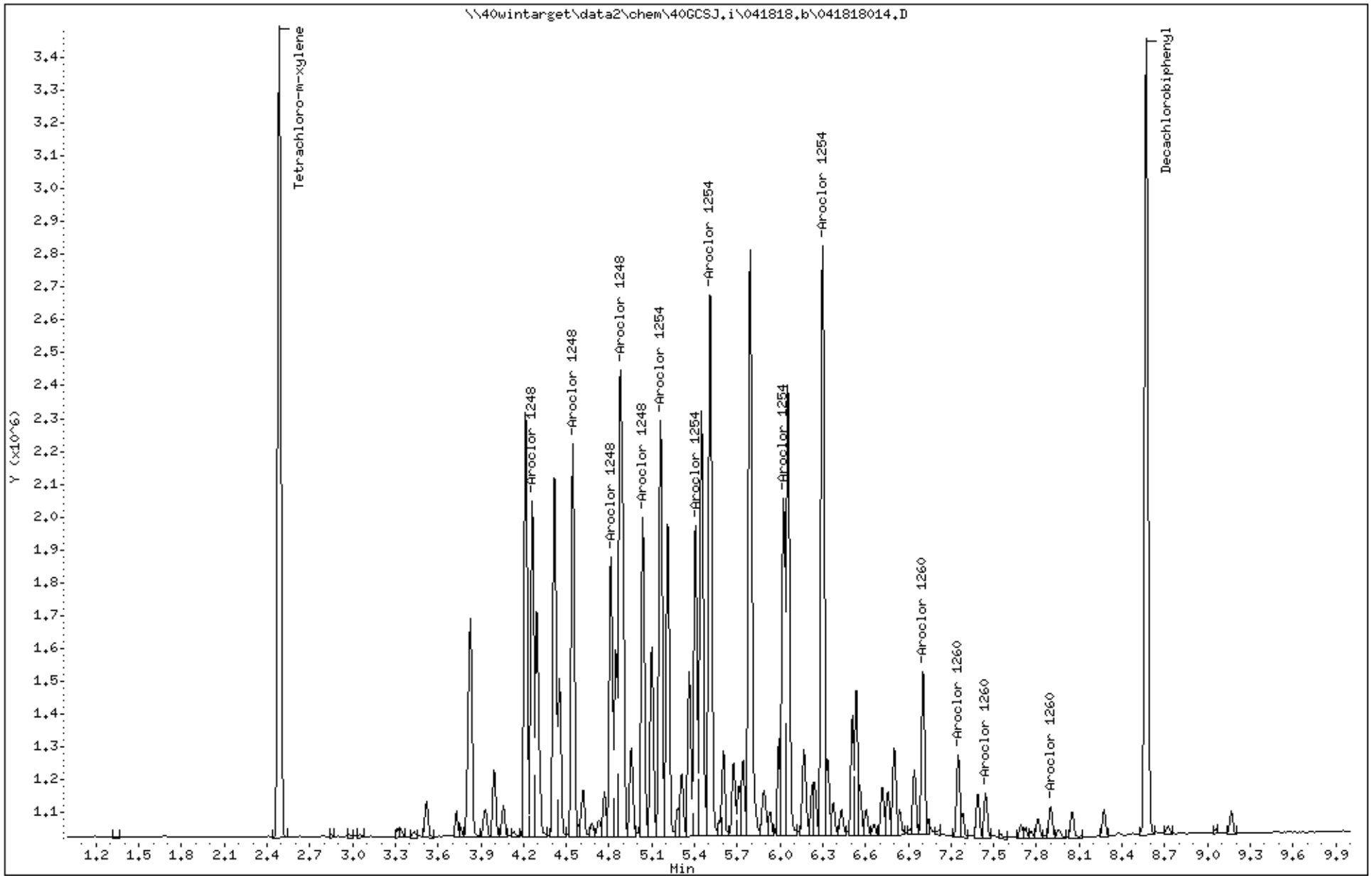
Sample Info: 40157830017 x4,

Volume Injected (uL): 1.0

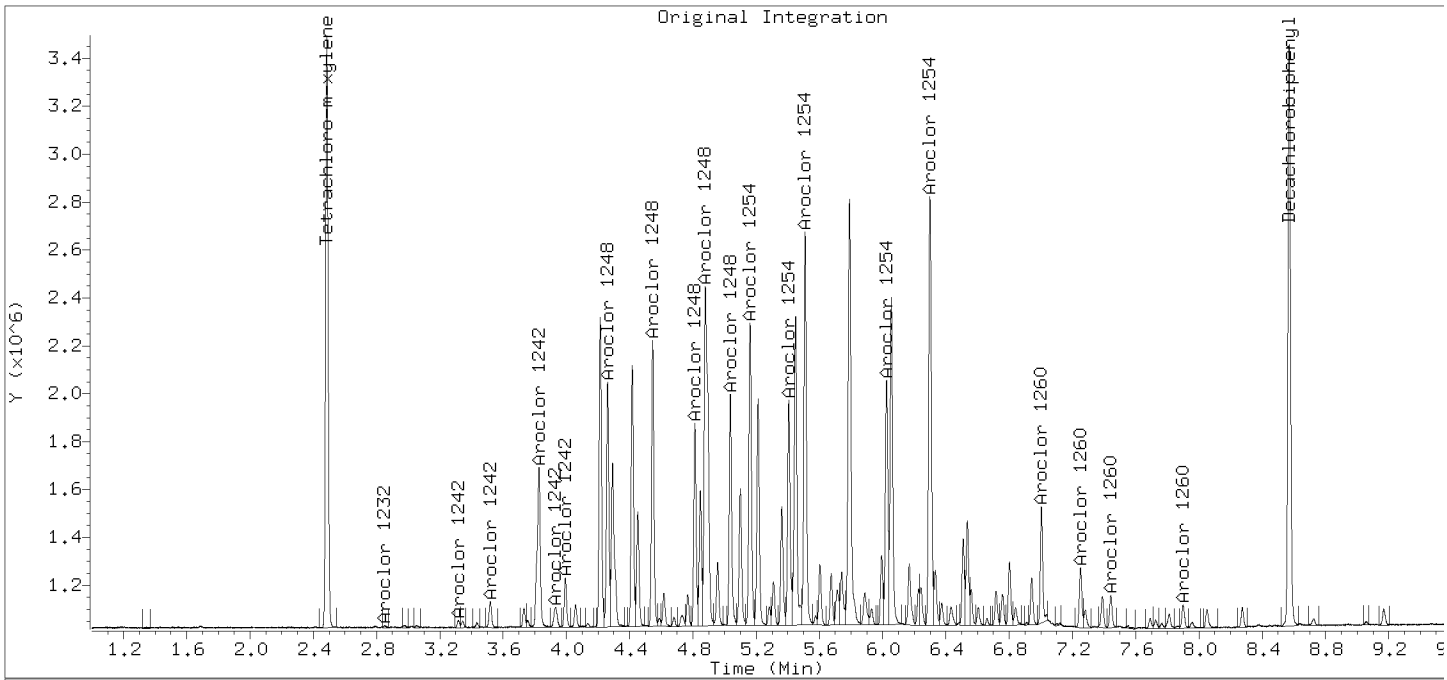
Operator: BLM

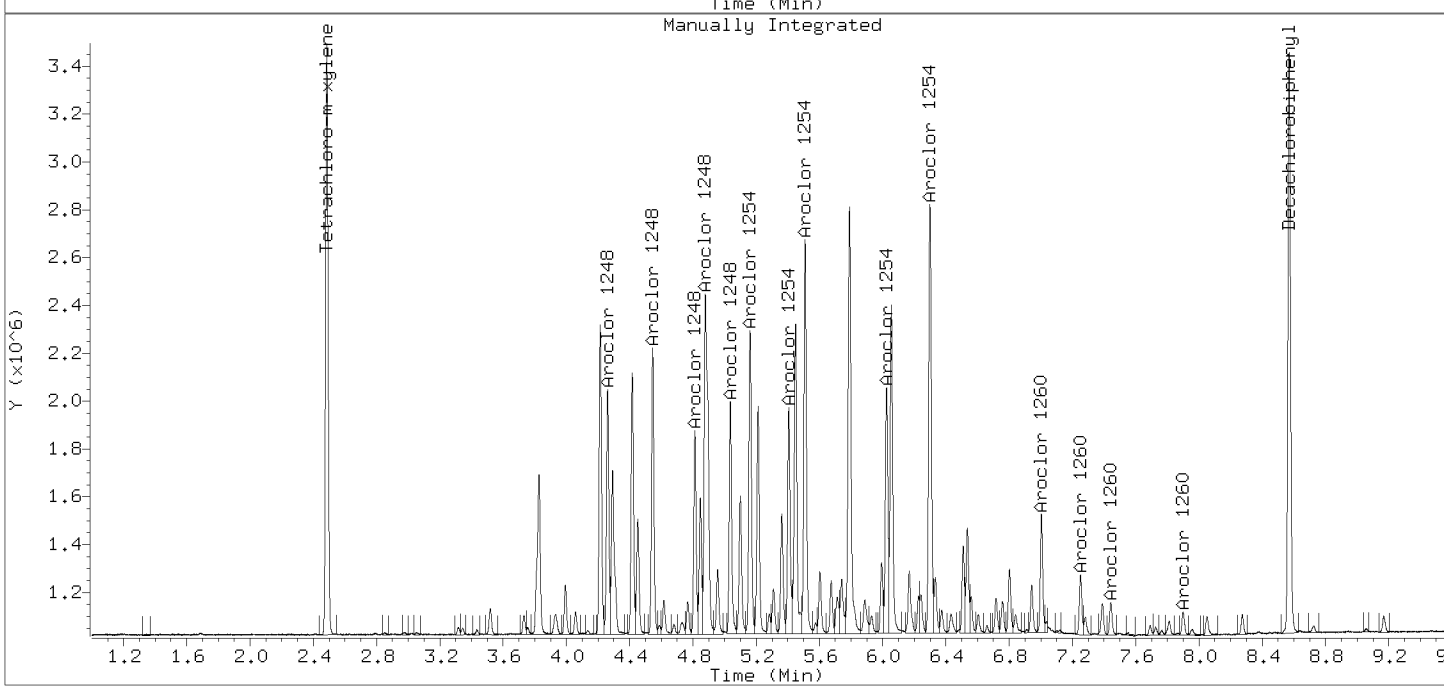
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 15:52 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830017





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	34284	0	
Aroclor 1016	34284	0	
Aroclor 1016	34284	0	
Aroclor 1016	34284	0	
Aroclor 1016	34284	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	11616	0	
Aroclor 1232	11616	0	
Aroclor 1232	11616	0	
Aroclor 1232	11616	0	

Aroclor 1232	11616	0	
Aroclor 1242	34284	0	
Aroclor 1242	34284	0	
Aroclor 1242	34284	0	
Aroclor 1242	34284	0	
Aroclor 1242	34284	0	
Aroclor 1248	1077299	1084340	BA
Aroclor 1248	1077299	1084340	BA
Aroclor 1248	1077299	1084340	BA
Aroclor 1248	1077299	1084340	BA
Aroclor 1248	1077299	1084340	BA
Aroclor 1254	1445934	1468620	BA
Aroclor 1254	1445934	1468620	BA
Aroclor 1254	1445934	1468620	BA
Aroclor 1254	1445934	1468620	BA
Aroclor 1254	1445934	1468620	BA
Aroclor 1260	2154064	0	CO
Aroclor 1260	2154064	0	CO
Aroclor 1260	2154064	0	CO
Aroclor 1260	2154064	0	CO
Aroclor 1260	2154064	0	CO
Tetrachloro-m-xylene	2715699	2715699	
Decachlorobiphenyl	2812145	2812145	

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SAMPLE NO.

TD1-170619-01-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: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/17/2018 07:09
Lab Sample ID: 40157830018
Date Analyzed: 04/18/2018 16:08
Lab File ID: 041818.B\041818015.D
Initial wt/vol: 10.0076 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)	1920	
11097-69-1	PCB-1254 (Aroclor 1254)	1390	
11096-82-5	PCB-1260 (Aroclor 1260)	213	J
1336-36-3	PCB, Total	3520	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818015.D
Lab Smp Id: 40157830018 Client Smp ID: TD1-170619-01-SMB-0
Inj Date : 18-APR-2018 16:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830018 x5,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * 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	10.008	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.413	20294	15432	0.760	0.02		1 Aroclor 1221	
2.485	2276732	2075237	0.911	3.11	$	2 Tetrachloro-m-xylene	
2.785	10134	8001	0.790	0.01		1 Aroclor 1221	
2.849	16204	12926	0.798	0.02		1 Aroclor 1221	
3.020	10971	9730	0.887	0.01			
3.052	36705	33056	0.901	0.05			
3.318	61668	57554	0.933	0.08			
3.344	68777	63057	0.917	0.09			
3.434	54924	47465	0.864	0.07			
3.519	139096	120991	0.870	0.19			
3.643	14784	9824	0.664	0.02			
3.732	87304	86731	0.993	0.11			
3.755	61725	54660	0.886	0.08			
3.827	1022545	701420	0.686	1.39			
3.937	222994	150195	0.674	0.30			
3.994	252976	235828	0.932	0.34			
4.058	186324	177576	0.953	0.25			
4.136	43722	38470	0.880	0.05			
4.214	2021297	1829013	0.905	2.76			
4.260	2146274	1990933	0.928	2.93		6 Aroclor 1248	BA
4.292	1973155	1554300	0.788	2.70			
4.416	1640260	1558115	0.950	2.24			
4.452	1131512	1015424	0.897	1.54			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.545	2037613	1858268	0.912	2.78	6 Aroclor 1248
4.588	64312	61253	0.952	0.08	
4.617	291537	263798	0.905	0.39	
4.680	92195	82981	0.900	0.12	
4.727	179494	127908	0.713	0.24	
4.767	307919	293716	0.954	0.42	
4.813	1770836	1627795	0.919	2.42	6 Aroclor 1248
4.847	1502617	1418420	0.944	2.05	
4.878	4682258	2893566	0.618	6.40	6 Aroclor 1248
4.956	651812	547877	0.841	0.89	
5.037	2249539	2066531	0.919	3.07	6 Aroclor 1248
5.100	1286316	1074102	0.835	1.76	
5.162	3048869	2645641	0.868	4.17	7 Aroclor 1254
5.212	2320497	2023966	0.872	3.17	
5.284	175288	167862	0.958	0.23	
5.308	354823	299731	0.845	0.48	
5.362	1273734	1147899	0.901	1.74	
5.406	2380145	2055170	0.863	3.25	7 Aroclor 1254
5.446	1611697	1359827	0.844	2.20	
5.479	192666	179479	0.932	0.26	
5.509	3750947	3228643	0.861	5.13	7 Aroclor 1254
5.575	76745	66028	0.860	0.10	
5.604	670032	590683	0.882	0.91	
5.674	499206	463160	0.928	0.68	
5.714	511232	363624	0.711	0.69	
5.741	674490	466078	0.691	0.92	
5.790	4826948	3769492	0.781	7.06	
5.886	509495	332106	0.652	0.69	
5.929	174857	131571	0.752	0.23	
5.993	522332	495361	0.948	0.71	
6.024	2743467	2400298	0.875	3.75	7 Aroclor 1254
6.054	2615552	2207446	0.844	3.57	
6.121	45210	29852	0.660	0.06	
6.169	797879	614904	0.771	1.09	
6.228	611680	321843	0.526	0.83	
6.299	3857915	3156685	0.818	5.28	7 Aroclor 1254
6.332	577804	512784	0.887	0.79	
6.373	278441	230495	0.828	0.38	
6.433	186508	134072	0.719	0.25	
6.509	695816	635780	0.914	0.95	
6.536	862965	766969	0.889	1.18	
6.559	285311	258712	0.907	0.39	
6.604	171821	136699	0.796	0.23	
6.660	76742	67009	0.873	0.10	
6.717	368523	337313	0.915	0.50	
6.757	317587	265778	0.837	0.43	
6.800	625193	555642	0.889	0.85	
6.841	182254	132008	0.724	0.24	
6.914	22865	22078	0.966	0.03	
6.942	322912	297712	0.922	0.44	
7.004	929305	845317	0.910	1.27	8 Aroclor 1260
7.033	85247	77971	0.915	0.11	
7.074	17924	18610	1.038	0.02	
7.119	31652	22748	0.719	0.04	
7.251	466163	422535	0.906	0.63	8 Aroclor 1260
7.281	155305	129824	0.836	0.21	
7.390	231479	202105	0.873	0.31	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.441	249866	216430	0.866	0.34	8 Aroclor 1260
7.552	22741	22224	0.977	0.03	
7.692	75166	71377	0.950	0.10	
7.726	48384	41423	0.856	0.06	
7.810	80790	53861	0.667	0.11	
7.901	173213	155713	0.899	0.23	8 Aroclor 1260
7.962	31364	15295	0.488	0.04	
8.049	94468	73643	0.780	0.12	
8.274	126912	102682	0.809	0.17	
8.375	9893	6658	0.673	0.01	
8.571	2334872	1955990	0.838	3.19	$ 12 Decachlorobiphenyl
8.727	26935	18249	0.678	0.03	
9.056	18266	10531	0.577	0.02	
9.171	18846	17537	0.931	0.02	
	73066062	61513276		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818015.D
Lab Smp Id: 40157830018 Client Smp ID: TD1-170619-01-SMB-0
Inj Date : 18-APR-2018 16:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830018 x5,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * 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	10.008	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

Compound Not Detected.

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

2.485	2.484	0.001	2276731	0.01847	46			

---

3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	2146274	0.91605	2300	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2037613	0.49095	1200	0.00- 20.00	94.94	BA
4.813	4.812	0.001	1770836	0.87230	2200	0.00- 20.00	82.51	BA
4.878	4.879	-0.001	4682258	0.92949	2300	0.00- 20.00	218.16	BA
5.037	5.038	-0.001	2249538	0.62687	1600	0.00- 20.00	104.81	BA
Average of Peak Concentrations =					1900			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	3048869	0.58237	1400	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	2380145	0.55339	1400	0.00- 20.00	78.07	BA
5.509	5.510	-0.001	3750947	0.48299	1200	0.00- 20.00	123.03	BA
6.024	6.027	-0.003	2743467	0.56338	1400	0.00- 20.00	89.98	BA
6.299	6.299	0.000	3857914	0.59288	1500	0.00- 20.00	126.54	BA
Average of Peak Concentrations =					1400			
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	929305	0.09280	230	0.00- 20.00	24.09	BA
7.251	7.251	0.000	466162	0.09753	240	0.00- 20.00	12.08	BA
7.441	7.443	-0.002	249866	0.08571	210	0.00- 20.00	6.48	BA
7.901	7.901	0.000	173212	0.06564	160	0.00- 20.00	4.49	BA
Average of Peak Concentrations =					210			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	2334871	0.02131	53			

QC Flag Legend

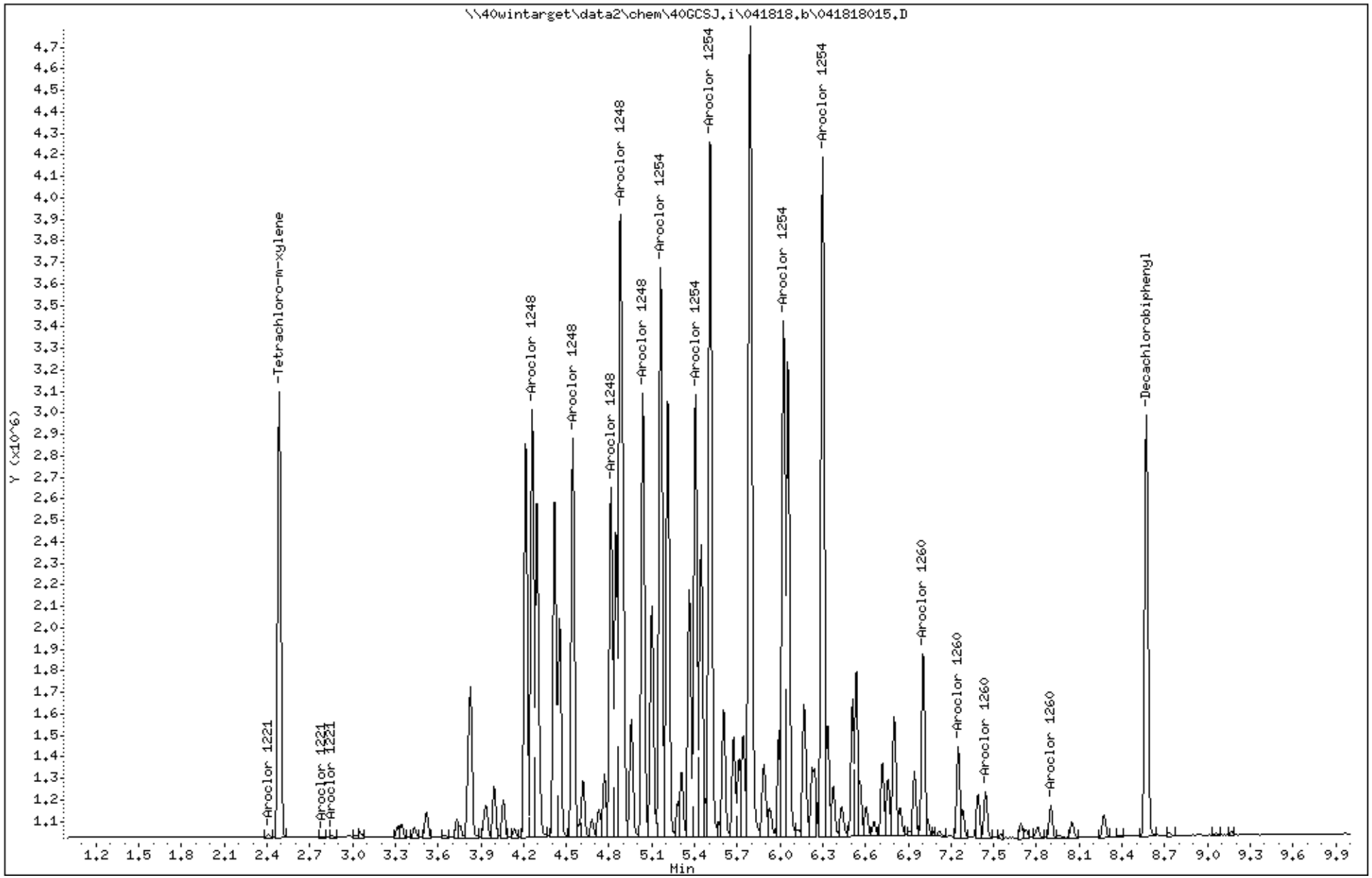
M - Compound response manually integrated.

Review Codes Legend

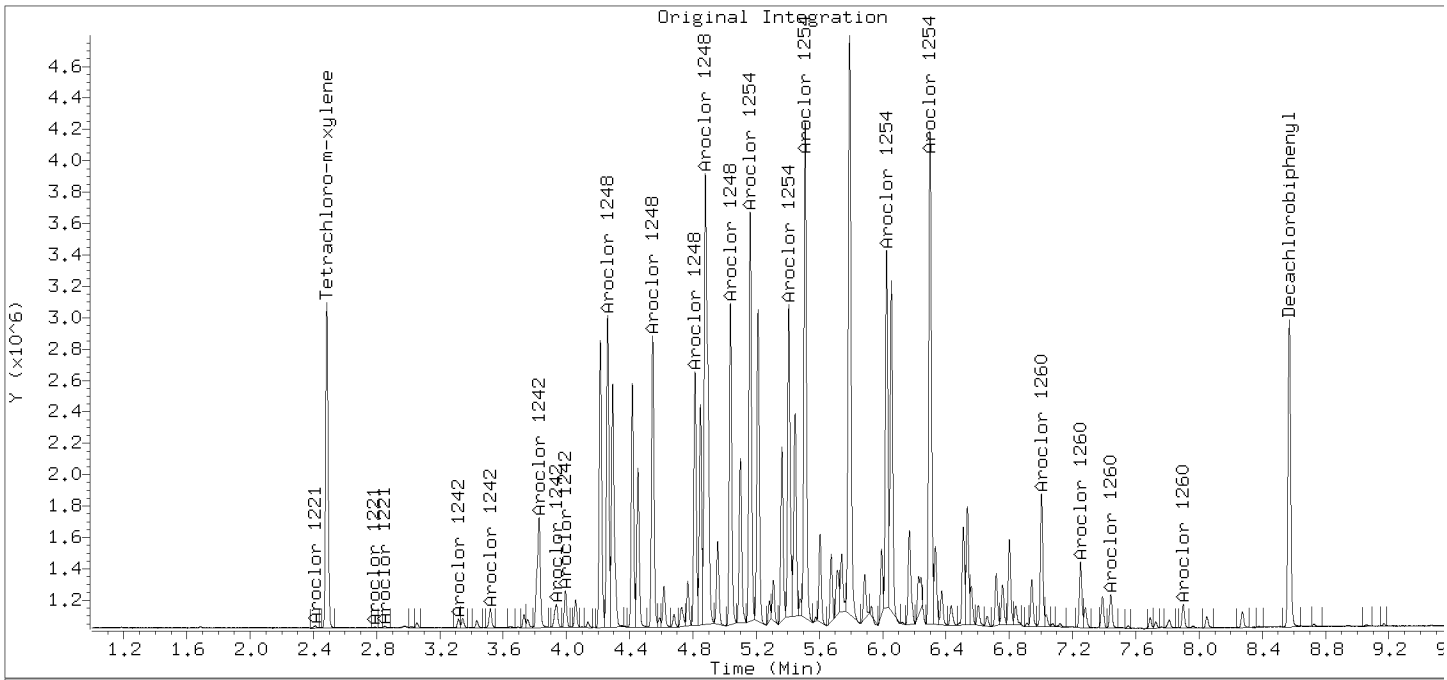
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

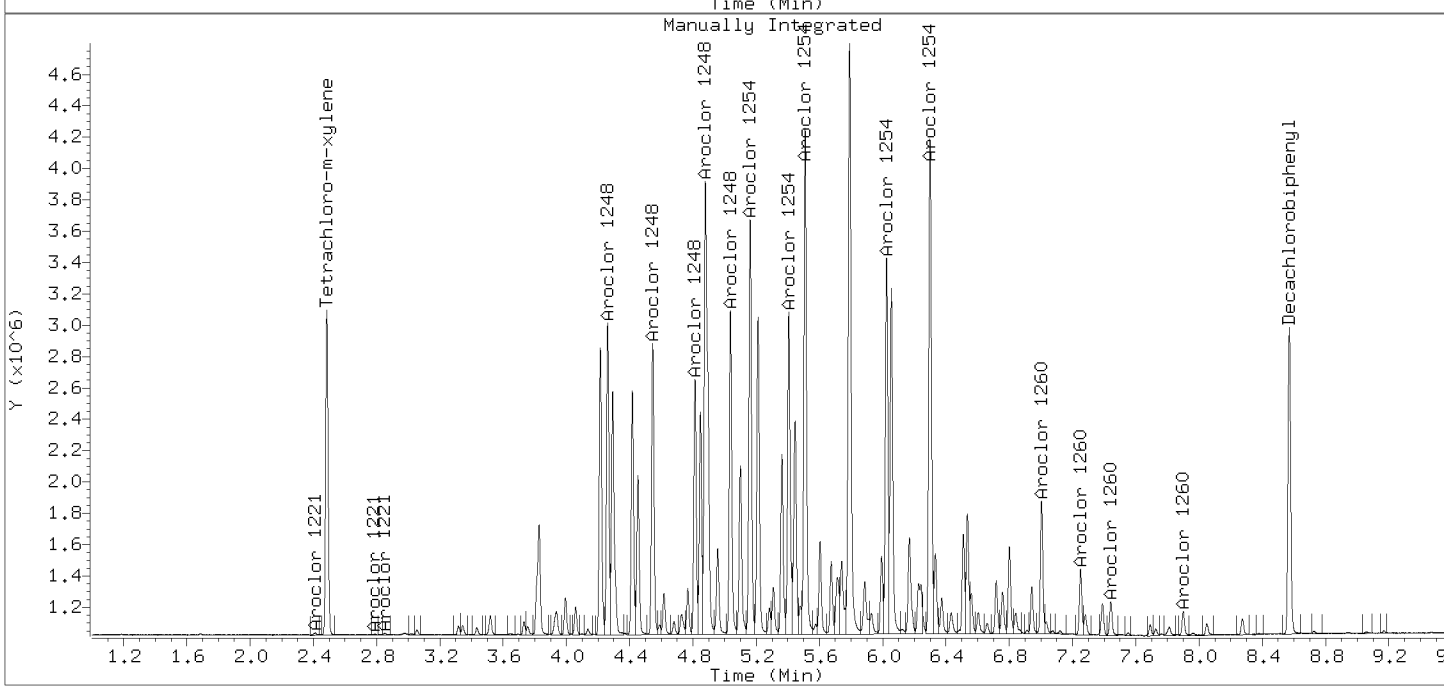
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818015.D
Date : 18-APR-2018 16:08
Client ID: TD1-170619-01-SMB-0
Sample Info: 40157830018 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 16:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830018





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	61667	0	
Aroclor 1016	61667	0	
Aroclor 1016	61667	0	
Aroclor 1016	61667	0	
Aroclor 1016	61667	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	16204	0	
Aroclor 1232	16204	0	
Aroclor 1232	16204	0	
Aroclor 1232	16204	0	

Aroclor 1232	16204	0	
Aroclor 1242	61667	0	
Aroclor 1242	61667	0	
Aroclor 1242	61667	0	
Aroclor 1242	61667	0	
Aroclor 1242	61667	0	
Aroclor 1248	2134997	2146274	BA
Aroclor 1248	2134997	2146274	BA
Aroclor 1248	2134997	2146274	BA
Aroclor 1248	2134997	2146274	BA
Aroclor 1248	2134997	2146274	BA
Aroclor 1254	2928611	3048869	BA
Aroclor 1254	2928611	3048869	BA
Aroclor 1254	2928611	3048869	BA
Aroclor 1254	2928611	3048869	BA
Aroclor 1254	2928611	3048869	BA
Aroclor 1260	3808799	0	BA
Aroclor 1260	3808799	0	BA
Aroclor 1260	3808799	0	BA
Aroclor 1260	3808799	0	BA
Aroclor 1260	3808799	0	BA
Tetrachloro-m-xylene	2276731	2276731	
Decachlorobiphenyl	2334871	2334871	

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SAMPLE NO.

TD1-170619-01-BB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 14:25
Matrix: Tissue SDG No.: 40157830
Date Extracted: 04/13/2018 07:19
Lab Sample ID: 40157830019
Date Analyzed: 04/18/2018 14:17
Lab File ID: 041818.B\041818008.D
Initial wt/vol: 10.0288 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)	466	
11097-69-1	PCB-1254 (Aroclor 1254)	215	
11096-82-5	PCB-1260 (Aroclor 1260)	44.0	J
1336-36-3	PCB, Total	724	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818008.D
Lab Smp Id: 40157830019 Client Smp ID: TD1-170619-01-BB-04
Inj Date : 18-APR-2018 14:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830019 x2,
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: 8
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	10.029	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.685	11567	10451	0.903	0.02		
1.949	10412	6034	0.579	0.02		
2.412	39396	30643	0.778	0.08		
2.485	5576753	5270808	0.945	12.71	$ 2 Tetrachloro-m-xylene	
2.789	15616	15265	0.978	0.03		
2.852	39076	28658	0.733	0.08		
2.975	15466	16537	1.069	0.03		
3.019	25264	27188	1.076	0.05		
3.058	33212	26246	0.790	0.07		
3.318	104476	94570	0.905	0.22		
3.345	50663	49817	0.983	0.11		
3.433	109484	99672	0.910	0.23		
3.519	193705	159884	0.825	0.42		
3.644	18803	18918	1.006	0.04		
3.732	173125	139344	0.805	0.37		
3.828	1552688	1142753	0.736	3.39		
3.930	110512	66923	0.606	0.24		
3.994	292084	272342	0.932	0.63		
4.057	166959	133665	0.801	0.36		
4.137	49651	37662	0.759	0.10		
4.215	833509	780509	0.936	1.82		
4.261	1064420	1015358	0.954	2.32	6 Aroclor 1248	BA
4.293	1377525	1067615	0.775	3.01		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.349	49004	37643	0.768	0.10	
4.417	1016968	961377	0.945	2.22	
4.452	465137	417657	0.898	1.01	
4.545	1493637	1353755	0.906	3.26	6 Aroclor 1248
4.588	49162	45348	0.922	0.10	
4.617	175648	152235	0.867	0.38	
4.679	53582	48459	0.904	0.11	
4.731	79717	50658	0.635	0.17	
4.769	201251	188085	0.935	0.44	
4.813	1208800	1132218	0.937	2.64	6 Aroclor 1248
4.848	565927	539731	0.954	1.23	
4.879	2616214	1852596	0.708	5.72	6 Aroclor 1248
4.956	257375	204951	0.796	0.56	
5.037	1455896	1339794	0.920	3.18	6 Aroclor 1248
5.099	692693	574707	0.830	1.51	
5.162	856499	741076	0.865	1.87	7 Aroclor 1254
5.212	842642	743469	0.882	1.84	
5.282	89804	88895	0.990	0.19	
5.309	206527	169673	0.822	0.45	
5.363	486782	429337	0.882	1.06	
5.407	954152	829696	0.870	2.08	7 Aroclor 1254
5.446	769017	657872	0.855	1.68	
5.478	83453	80399	0.963	0.18	
5.510	1656364	1425646	0.861	3.62	7 Aroclor 1254
5.577	44858	35815	0.798	0.09	
5.604	337552	300238	0.889	0.73	
5.675	278276	254622	0.915	0.60	
5.712	196030	148819	0.759	0.42	
5.741	293755	210520	0.717	0.64	
5.791	1917737	1431250	0.746	4.19	
5.885	237392	145490	0.613	0.51	
5.930	78261	58423	0.747	0.17	
5.994	218712	207636	0.949	0.47	
6.025	1212567	1036373	0.855	2.65	7 Aroclor 1254
6.055	744940	613657	0.824	1.62	
6.169	321131	218704	0.681	0.70	
6.227	110316	112345	1.018	0.24	
6.240	142454	121534	0.853	0.31	
6.300	1486249	1227014	0.826	3.25	7 Aroclor 1254
6.334	199334	177535	0.891	0.43	
6.372	106687	81714	0.766	0.23	
6.433	121082	85973	0.710	0.26	
6.510	834945	779577	0.934	1.82	
6.537	319267	287011	0.899	0.69	
6.561	115573	106418	0.921	0.25	
6.604	52667	43450	0.825	0.11	
6.659	44817	38441	0.858	0.09	
6.718	221306	194258	0.878	0.48	
6.759	181504	157565	0.868	0.39	
6.801	224330	209544	0.934	0.49	
6.839	88959	61819	0.695	0.19	
6.943	267361	241638	0.904	0.58	
7.005	371530	331625	0.893	0.81	8 Aroclor 1260
7.035	77551	68586	0.884	0.16	
7.123	31291	21978	0.702	0.06	
7.250	208817	182940	0.876	0.45	8 Aroclor 1260
7.282	90540	69733	0.770	0.19	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.341	19531	15277	0.782	0.04	
7.388	228570	193419	0.846	0.50	
7.442	164549	131780	0.801	0.35	8 Aroclor 1260
7.502	24857	11499	0.463	0.05	
7.690	53044	47761	0.900	0.11	
7.726	52879	41750	0.790	0.11	
7.813	90868	58024	0.639	0.19	
7.899	103439	87868	0.849	0.22	8 Aroclor 1260
7.965	18901	11761	0.622	0.04	
8.048	190223	162188	0.853	0.41	
8.184	12228	9562	0.782	0.02	
8.274	98598	85395	0.866	0.21	
8.375	15372	10264	0.668	0.03	
8.570	5214948	4441128	0.852	11.40	$ 12 Decachlorobiphenyl
8.724	20470	15483	0.756	0.04	
9.057	16658	12475	0.749	0.03	
9.169	17020	14016	0.823	0.03	
	45710564	39188034		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818008.D
Lab Smp Id: 40157830019 Client Smp ID: TD1-170619-01-BB-04
Inj Date : 18-APR-2018 14:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157830019 x2,
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: 8
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	10.029	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.485	2.484	0.001	5576752	0.04523	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	1064420	0.45430	450	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1493637	0.35989	360	0.00- 20.00	140.32	BA
4.813	4.812	0.001	1208799	0.59544	590	0.00- 20.00	113.56	BA
4.878	4.879	-0.001	2616214	0.51935	520	0.00- 20.00	245.79	BA
5.036	5.038	-0.002	1455896	0.40571	400	0.00- 20.00	136.78	BA
Average of Peak Concentrations =					460			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	856499	0.16360	160	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	954151	0.22184	220	0.00- 20.00	111.40	BA
5.510	5.510	0.000	1656364	0.21328	210	0.00- 20.00	193.39	BA
6.025	6.027	-0.002	1212566	0.24900	250	0.00- 20.00	141.57	BA
6.299	6.299	0.000	1486249	0.22840	230	0.00- 20.00	173.53	BA
Average of Peak Concentrations =					210			
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	371529	0.03710	37	0.00- 20.00	25.00	BA
7.249	7.251	-0.002	208816	0.04369	44	0.00- 20.00	14.05	BA
7.442	7.443	-0.001	164549	0.05645	56	0.00- 20.00	11.07	BA
7.899	7.901	-0.002	103439	0.03920	39	0.00- 20.00	6.96	BA
Average of Peak Concentrations =					44			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5214947	0.04760	47			

QC Flag Legend

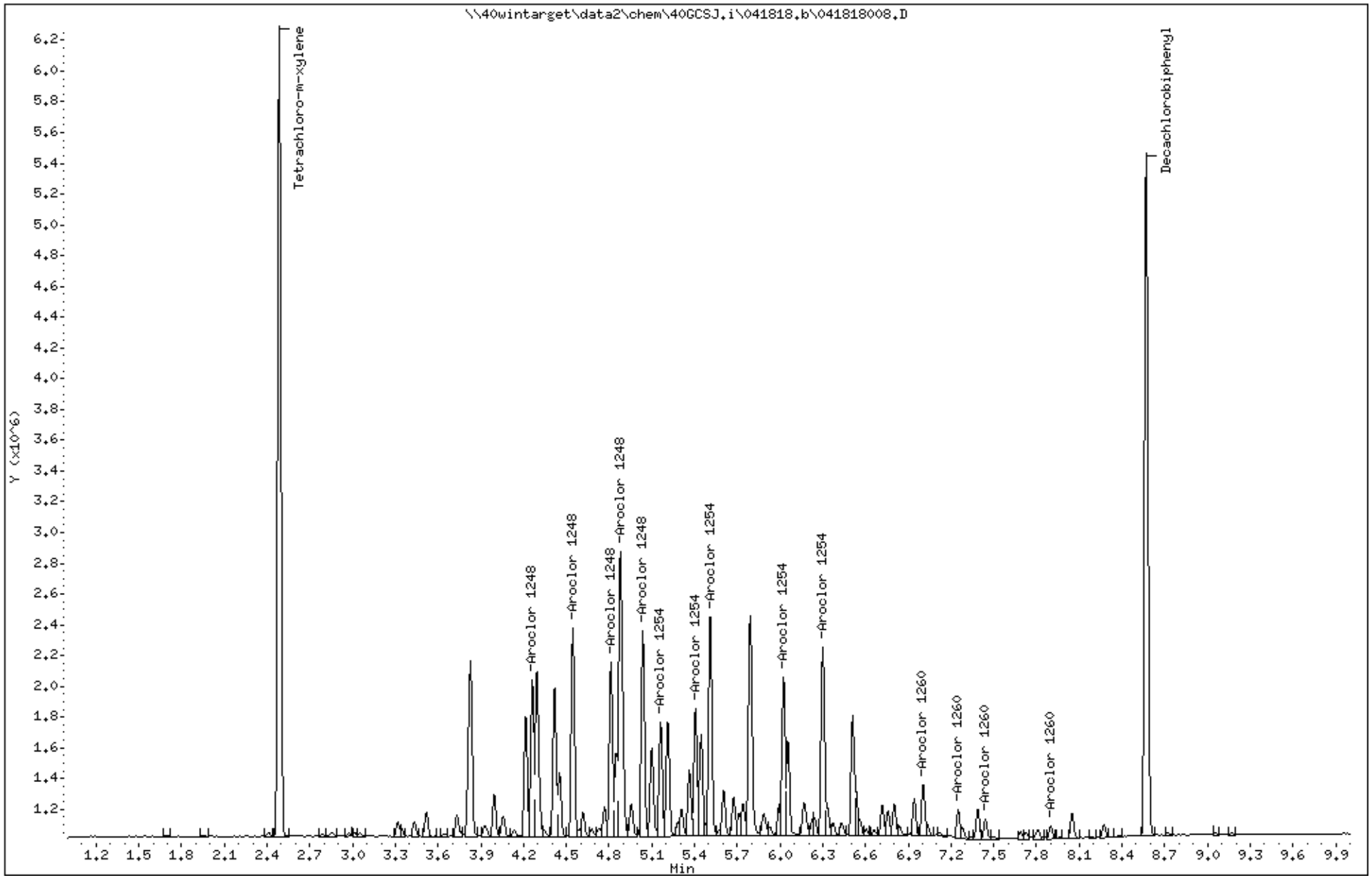
M - Compound response manually integrated.

Review Codes Legend

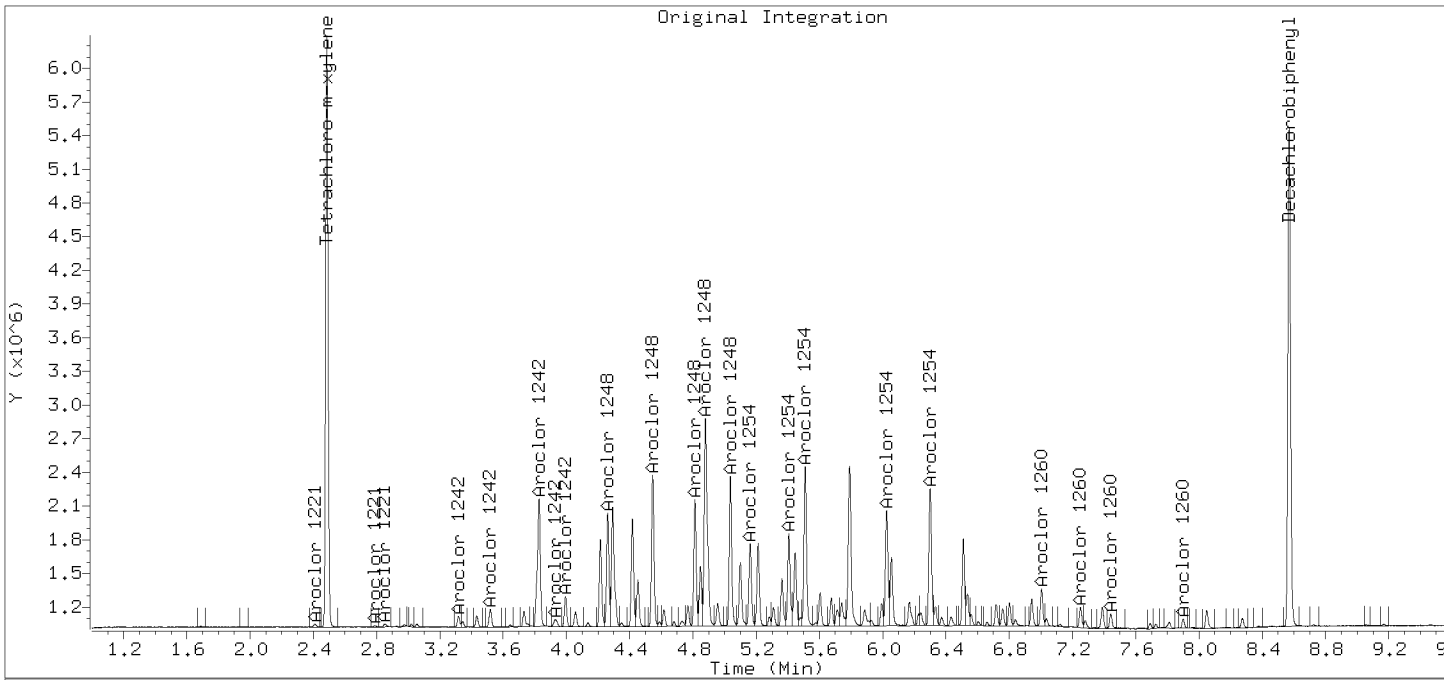
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

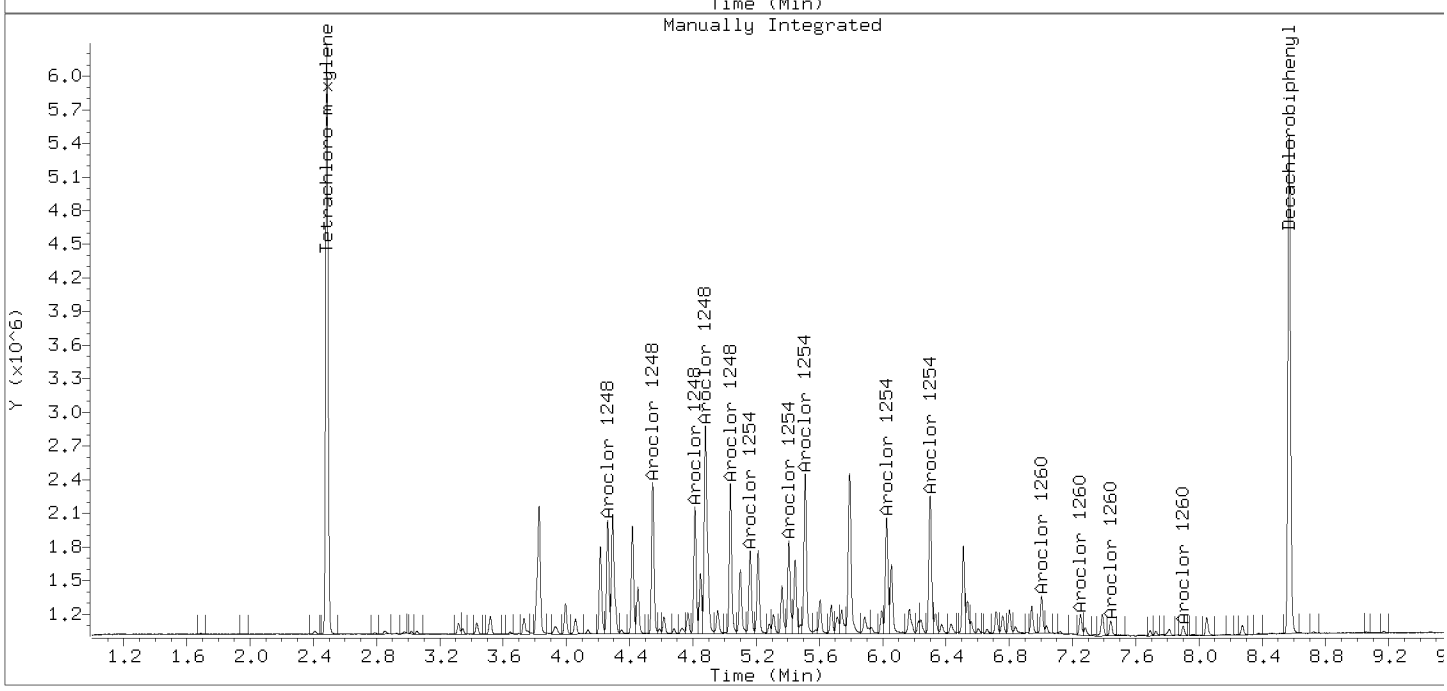
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818008.D
Date : 18-APR-2018 14:17
Client ID: TD1-170619-01-BB-04
Sample Info: 40157830019 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 14:17 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157830019





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	104475	0	
Aroclor 1016	104475	0	
Aroclor 1016	104475	0	
Aroclor 1016	104475	0	
Aroclor 1016	104475	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	39076	0	
Aroclor 1232	39076	0	
Aroclor 1232	39076	0	
Aroclor 1232	39076	0	

Aroclor 1232	39076	0	
Aroclor 1242	104475	0	
Aroclor 1242	104475	0	
Aroclor 1242	104475	0	
Aroclor 1242	104475	0	
Aroclor 1242	104475	0	
Aroclor 1248	1054237	1064420	BA
Aroclor 1248	1054237	1064420	BA
Aroclor 1248	1054237	1064420	BA
Aroclor 1248	1054237	1064420	BA
Aroclor 1248	1054237	1064420	BA
Aroclor 1254	834376	856499	BA
Aroclor 1254	834376	856499	BA
Aroclor 1254	834376	856499	BA
Aroclor 1254	834376	856499	BA
Aroclor 1254	834376	856499	BA
Aroclor 1260	1462977	0	BA
Aroclor 1260	1462977	0	BA
Aroclor 1260	1462977	0	BA
Aroclor 1260	1462977	0	BA
Aroclor 1260	1462977	0	BA
Tetrachloro-m-xylene	5576752	5576752	
Decachlorobiphenyl	5214947	5214947	

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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.: 40157830

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.: 40157830

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.: 40157830

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

LAB FILE ID

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

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

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

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157830

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.: 40157830

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.: 40157830

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.: 40157830

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

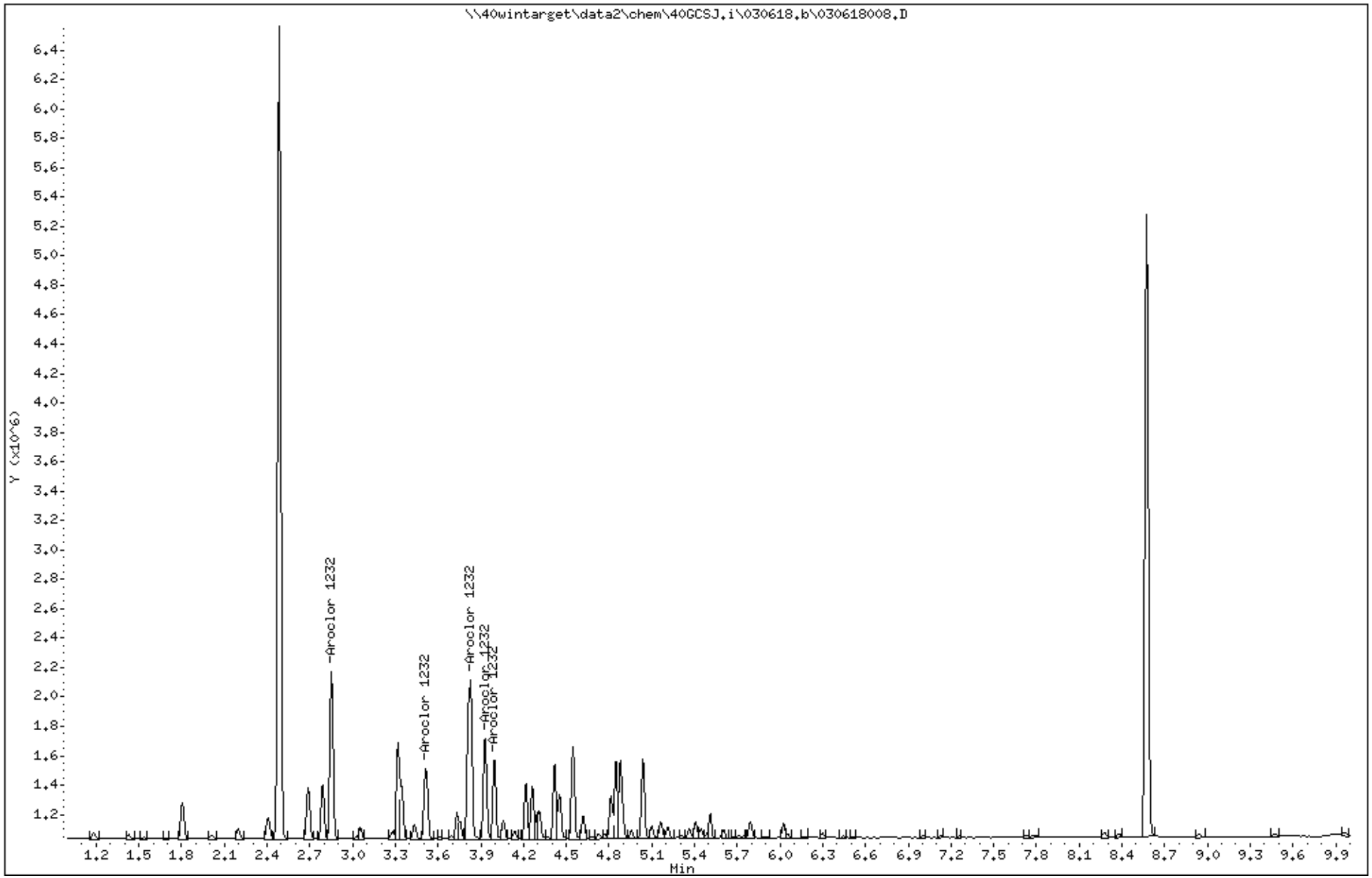
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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

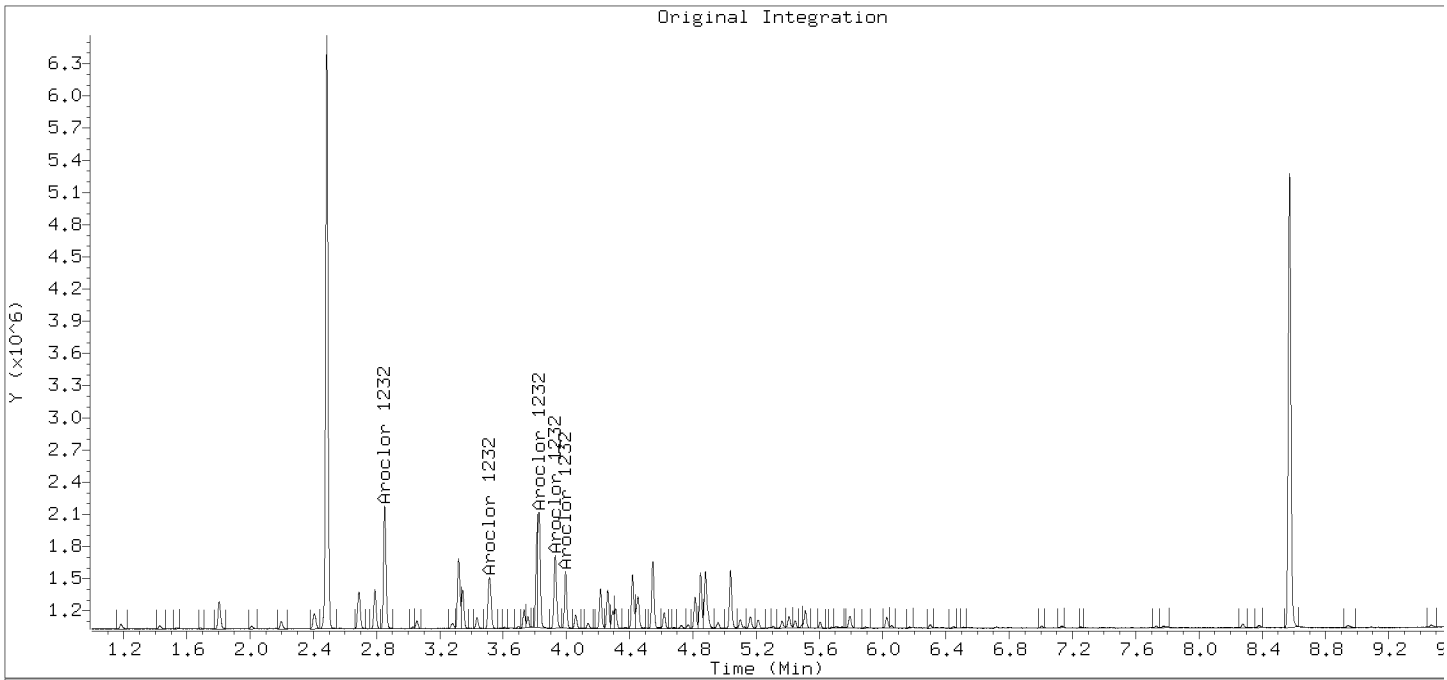
Column phase: ZB-1ms

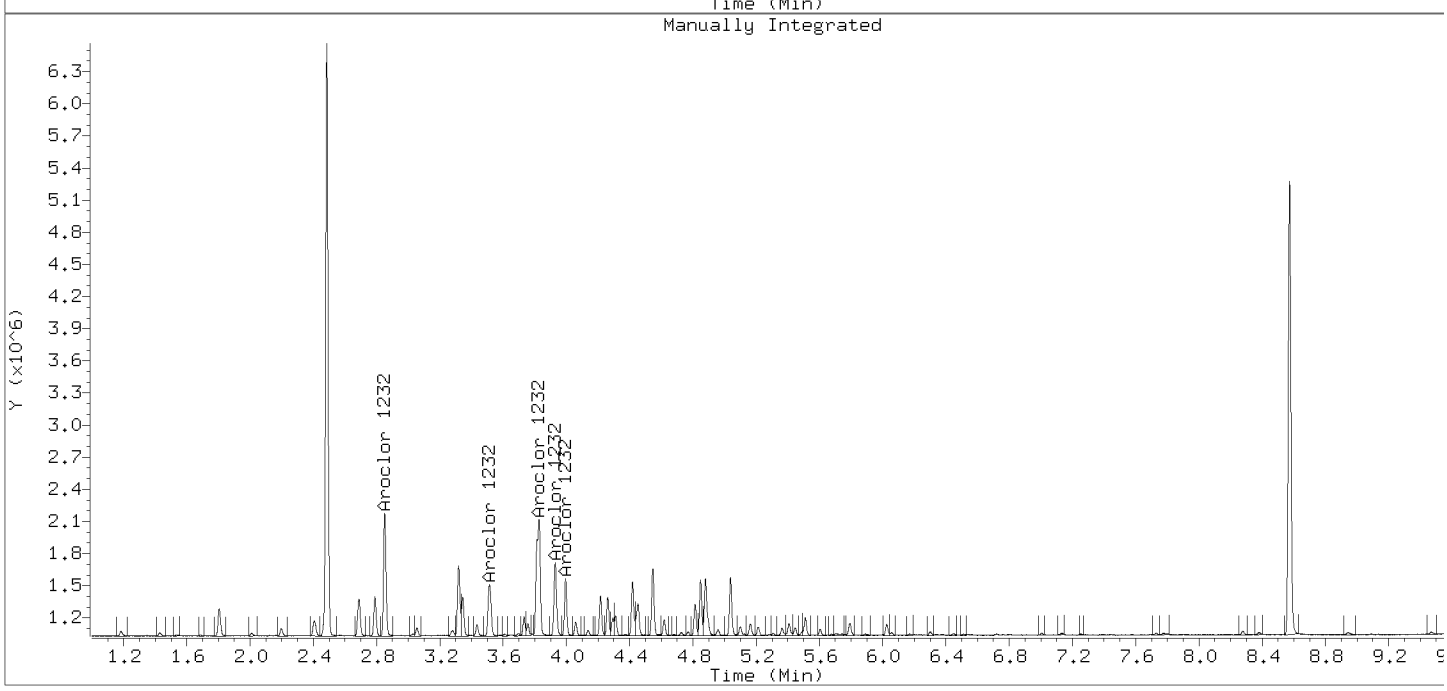
Instrument: 40GCSJ.i

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

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Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Lab Smp Id: 1221-CAL1F Client Smp ID: 1221-CAL1F
Inj Date : 06-MAR-2018 12:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.180	13612	11288	0.829	0.38		
1.804	116885	98810	0.845	3.31	1 Aroclor 1221	BA
2.197	36039	30499	0.846	1.02		
2.407	61218	44733	0.731	1.73	1 Aroclor 1221	BA
2.485	1172586	1134895	0.968	33.37		
2.688	150512	119908	0.797	4.27	1 Aroclor 1221	BA
2.790	118144	107550	0.910	3.35	1 Aroclor 1221	BA
2.852	349220	309600	0.887	9.90	1 Aroclor 1221	BA
3.279	28274	21896	0.774	0.80		
3.325	85123	48119	0.565	2.41		
3.380	10358	5756	0.556	0.29		
3.436	15926	10893	0.684	0.45		
3.513	38645	25267	0.654	1.09		
3.733	9954	10584	1.063	0.28		
3.817	38159	24082	0.631	1.08		
3.928	37088	28113	0.758	1.05		
3.996	22534	20384	0.905	0.63		
4.260	9635	9376	0.973	0.27		
4.546	10833	12359	1.141	0.30		
4.881	15313	10912	0.713	0.43		
5.040	11422	9410	0.824	0.32		
8.278	12362	11919	0.964	0.35		
8.380	10282	8381	0.815	0.29		
8.572	1127356	960701	0.852	31.98		
8.936	10000	8119	0.812	0.28		
9.466	13059	9537	0.730	0.37		
	3524537	3093091		100.000		

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Lab Smp Id: 1221-CAL1F Client Smp ID: 1221-CAL1F
Inj Date : 06-MAR-2018 12:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:44 Cal File: 030618022.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.803	1.804	-0.001	116884	0.10000	0.11	0.00- 20.00	100.00(M)	BA
2.406	2.407	-0.001	61218	0.10000	0.11	0.00- 20.00	52.38	BA
2.687	2.688	-0.001	150511	0.10000	0.11	0.00- 20.00	128.77	BA
2.789	2.789	0.000	118144	0.10000	0.11	0.00- 20.00	101.08	BA
2.851	2.851	0.000	349219	0.10000	0.11	0.00- 20.00	298.77	BA
Average of Peak Amounts =					0.11000			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D

Date : 06-MAR-2018 12:07

Client ID: 1221-CAL1F

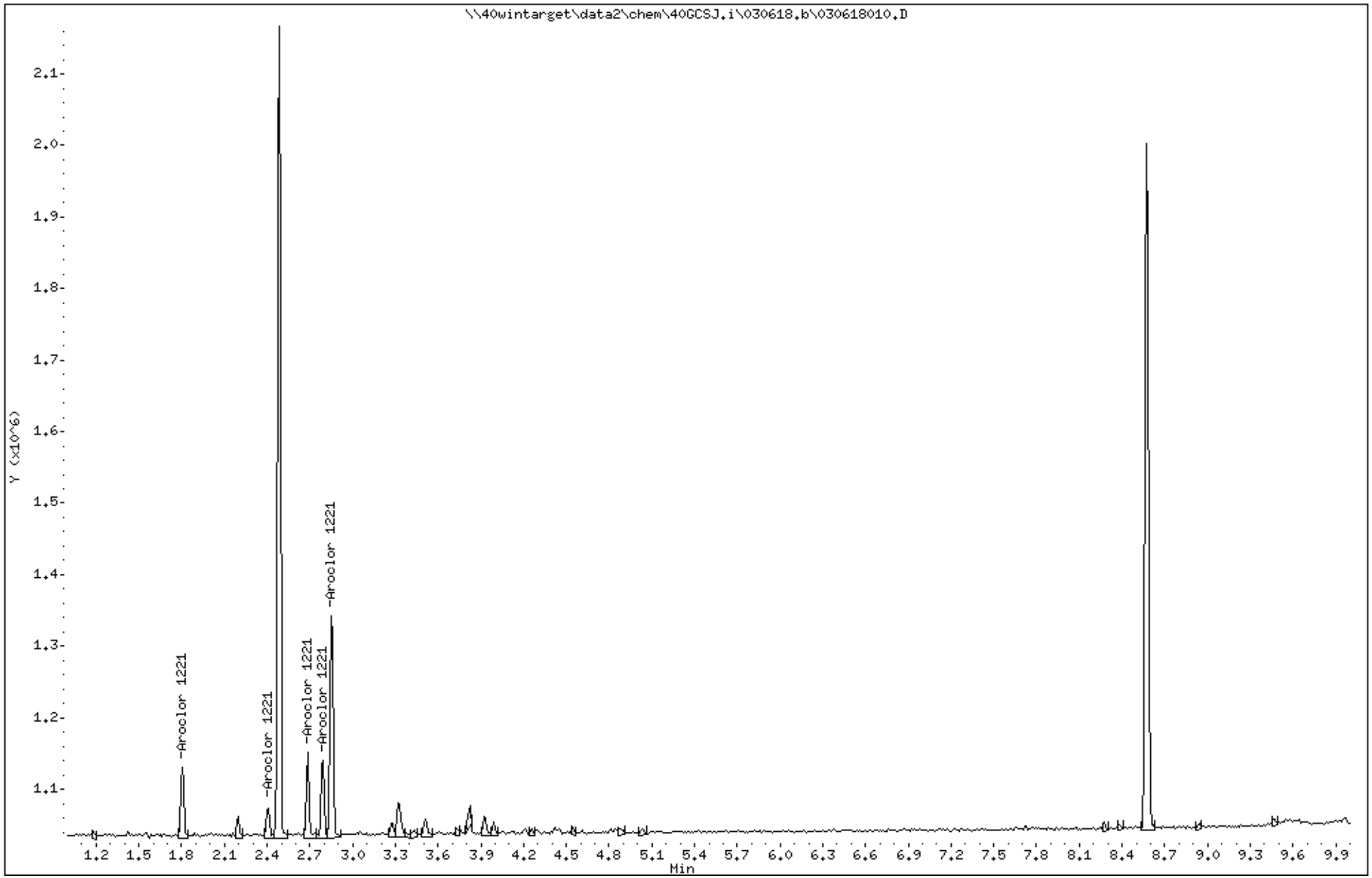
Instrument: 40GCSJ.i

Sample Info: 1221-CAL1F, 188138:1

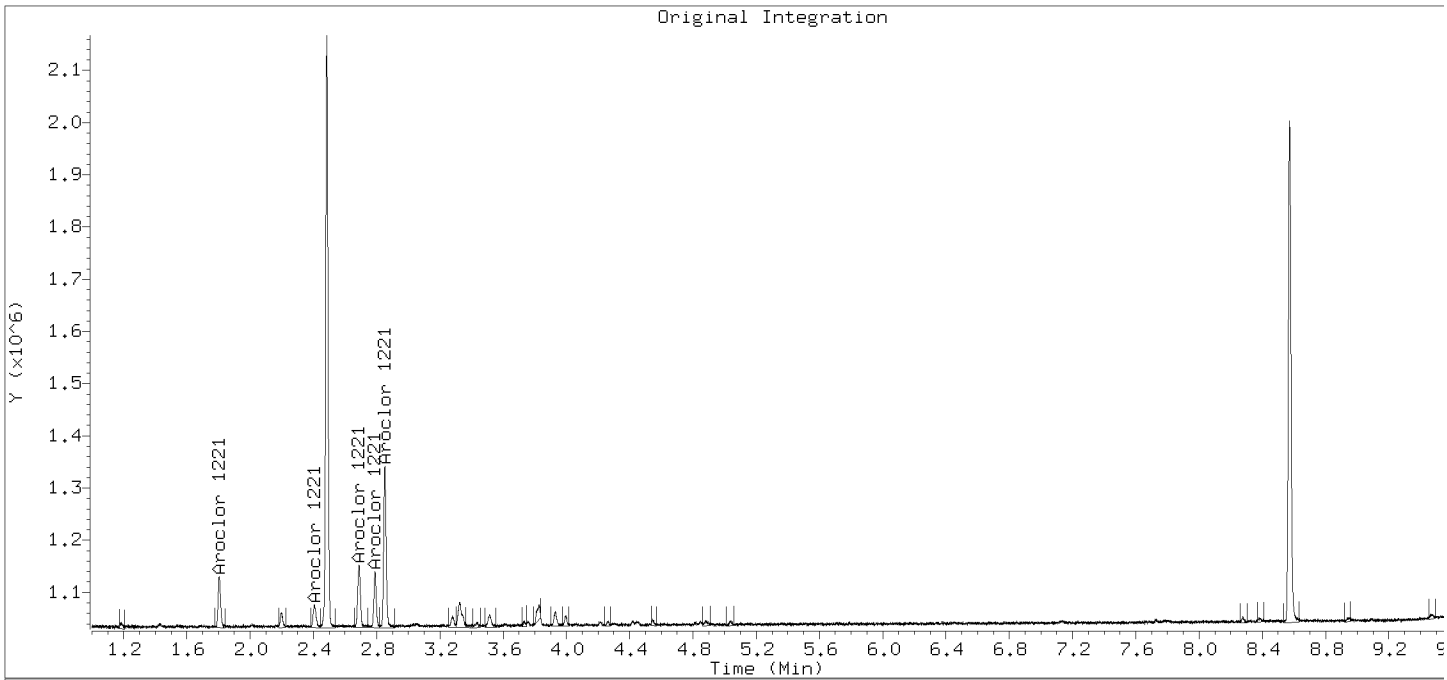
Operator: BLM

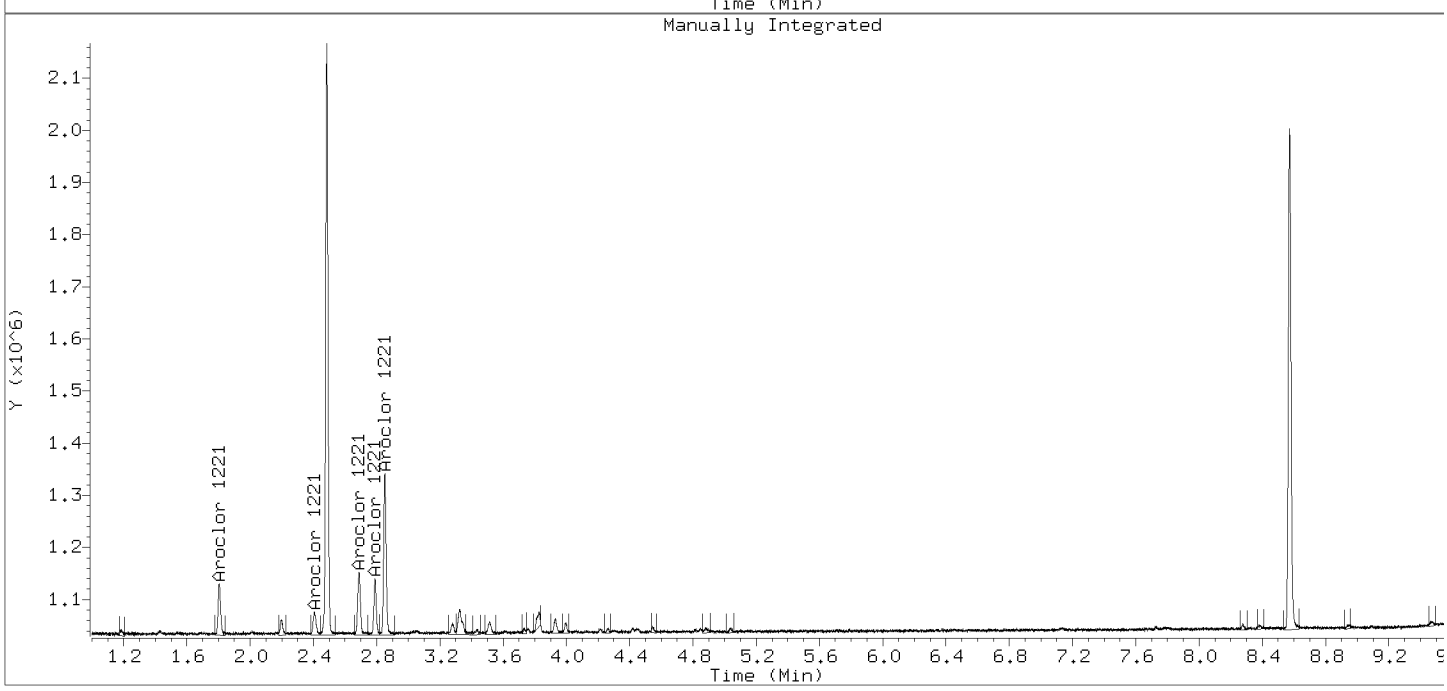
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Lab Smp Id: 1221-CAL2F Client Smp ID: 1221-CAL2F
Inj Date : 06-MAR-2018 12:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:23 Cal File: 030618012.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	21110	15992	0.758	0.29		
1.432	19890	14202	0.714	0.27		
1.804	222151	196763	0.886	3.10	1 Aroclor 1221	BA
2.006	14074	10640	0.756	0.19		
2.198	66696	59685	0.895	0.93		
2.408	117491	84755	0.721	1.64	1 Aroclor 1221	BA
2.485	2389575	2280739	0.954	33.51		
2.688	289327	237824	0.822	4.03	1 Aroclor 1221	BA
2.790	230052	213818	0.929	3.21	1 Aroclor 1221	BA
2.852	694108	629495	0.907	9.69	1 Aroclor 1221	BA
3.055	24441	15851	0.649	0.34		
3.283	52341	38105	0.728	0.73		
3.322	162359	92875	0.572	2.26		
3.433	17768	16060	0.904	0.24		
3.514	68265	44434	0.651	0.95		
3.610	18983	11562	0.609	0.26		
3.733	17041	17575	1.031	0.23		
3.755	20072	17438	0.869	0.28		
3.827	142441	84122	0.591	1.98		
3.930	69577	57831	0.831	0.97		
3.996	47705	40519	0.849	0.66		
4.216	23635	18011	0.762	0.33		
4.261	14899	13886	0.932	0.20		
4.418	12729	14384	1.130	0.17		
4.547	21625	20493	0.948	0.30		
4.618	11602	9168	0.790	0.16		
4.848	13653	14682	1.075	0.19		
4.880	20209	15214	0.753	0.28		
5.040	16835	15081	0.896	0.23		
7.133	16511	8656	0.524	0.23		
7.728	11846	11710	0.989	0.16		
8.278	23007	17531	0.762	0.32		
8.378	9408	9279	0.986	0.13		
8.573	2192346	1884280	0.859	30.61		
8.940	11831	13025	1.101	0.16		
9.473	27497	16611	0.604	0.38		
9.964	28645	19011	0.664	0.39		

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

Total unknown % area = 78

Pace Analytical Services, Inc.

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Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Lab Smp Id: 1221-CAL2F Client Smp ID: 1221-CAL2F
Inj Date : 06-MAR-2018 12:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:23 Cal File: 030618012.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	222151	0.20000	0.21	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	117490	0.20000	0.21	0.00- 20.00	52.89	BA
2.688	2.688	0.000	289327	0.20000	0.21	0.00- 20.00	130.24	BA
2.789	2.789	0.000	230051	0.20000	0.21	0.00- 20.00	103.56	BA
2.851	2.851	0.000	694107	0.20000	0.21	0.00- 20.00	312.45	BA
Average of Peak Amounts =					0.21000			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D

Date : 06-MAR-2018 12:23

Client ID: 1221-CAL2F

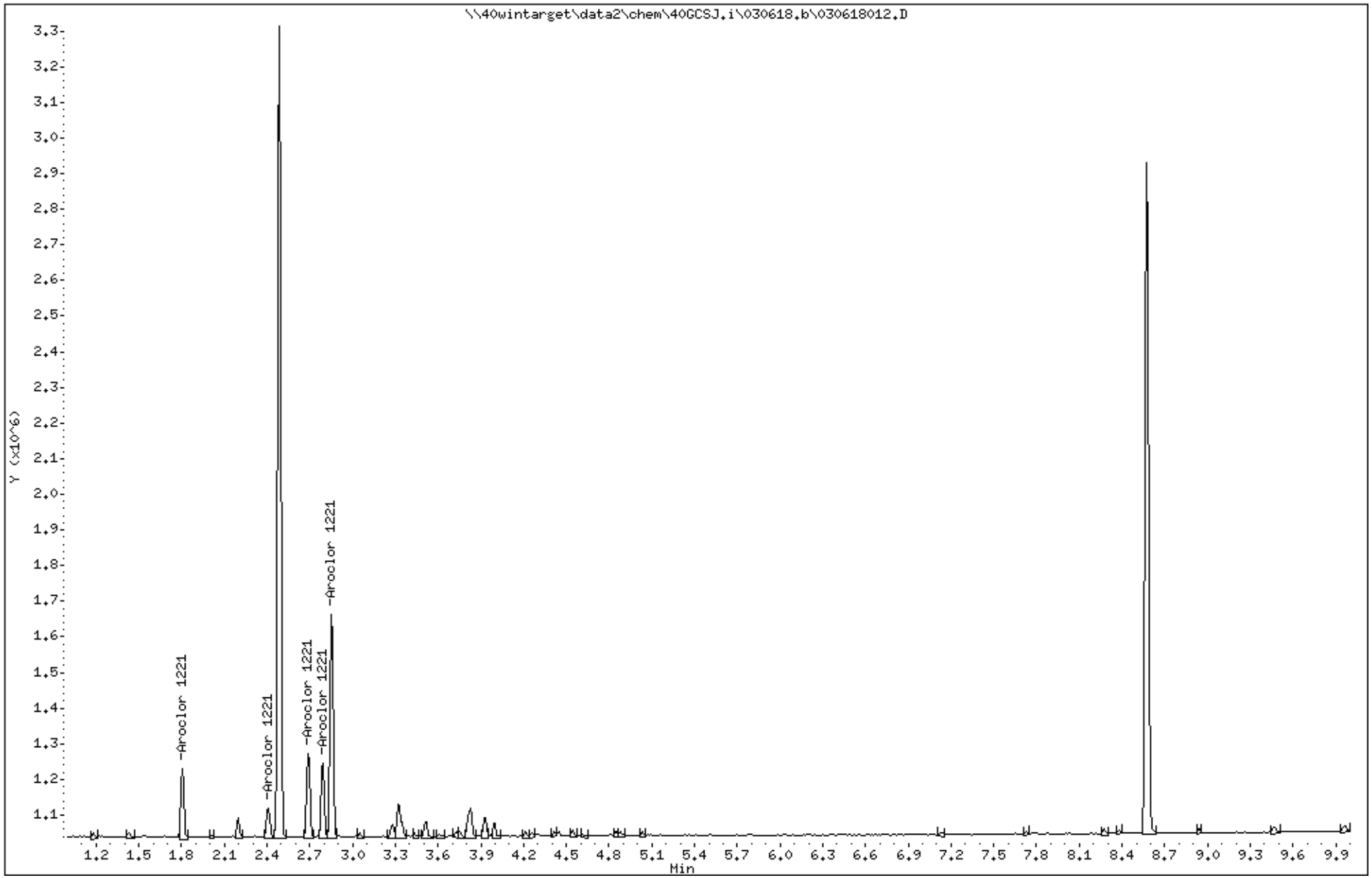
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

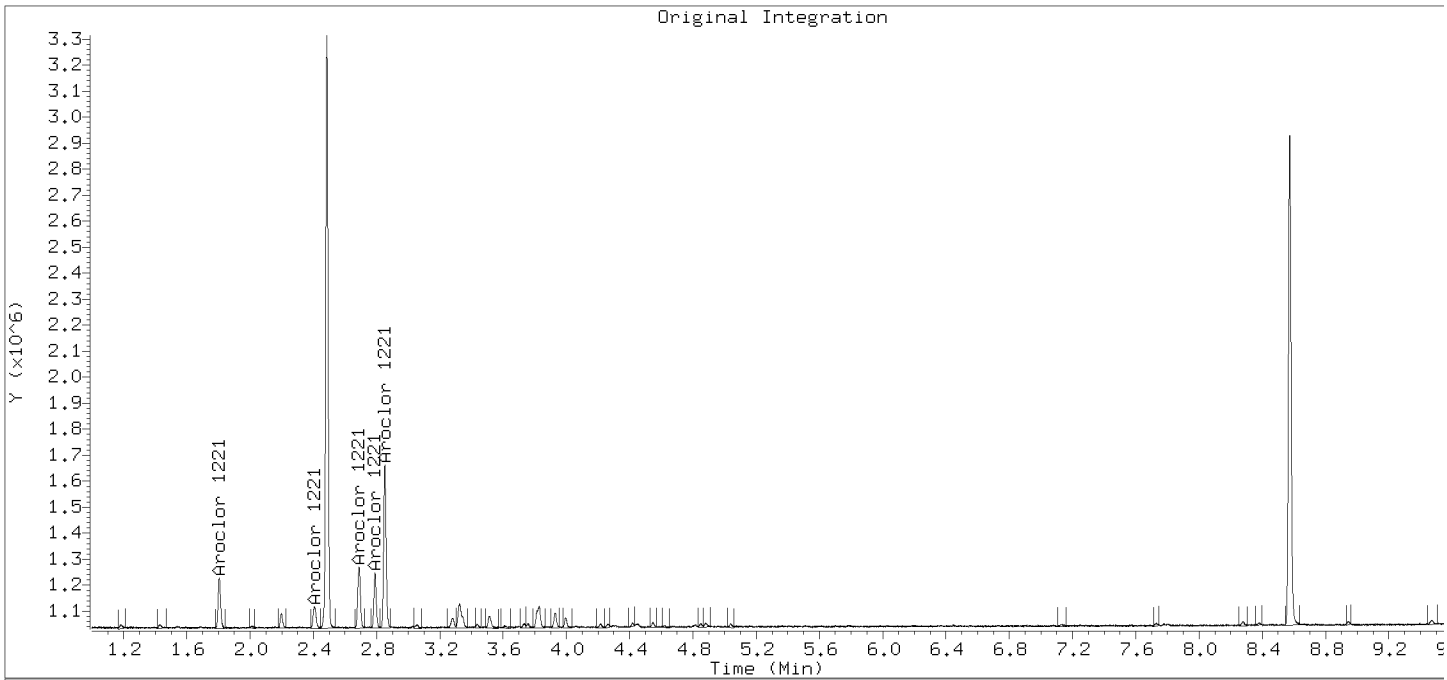
Operator: BLM

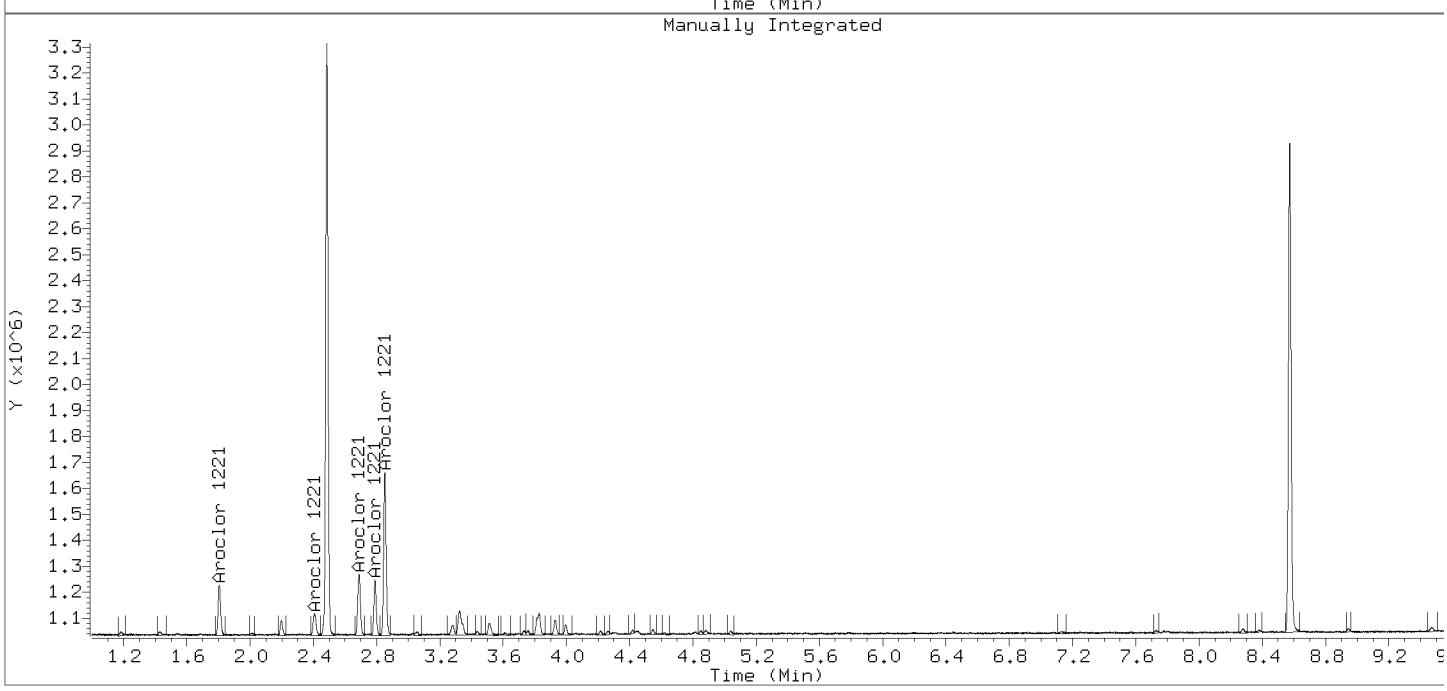
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	46886	34819	0.743	0.27		
1.429	37682	34000	0.902	0.22		
1.540	18475	13916	0.753	0.11		
1.686	12215	9839	0.805	0.07		
1.805	490239	441873	0.901	2.92	1 Aroclor 1221	BA
2.010	34778	21164	0.609	0.20		
2.197	148893	131934	0.886	0.88		
2.408	263311	192077	0.729	1.56	1 Aroclor 1221	BA
2.485	5899001	5597678	0.949	35.41		
2.688	658124	555463	0.844	3.92	1 Aroclor 1221	BA
2.790	519264	501204	0.965	3.09	1 Aroclor 1221	BA
2.851	1583519	1422292	0.898	9.43	1 Aroclor 1221	BA
3.030	16777	16577	0.988	0.09		
3.055	39004	30894	0.792	0.23		
3.213	9910	8832	0.891	0.05		
3.281	111839	84209	0.753	0.66		
3.325	365423	215871	0.591	2.17		
3.437	35737	30648	0.858	0.21		
3.514	140459	101998	0.726	0.83		
3.608	20183	17591	0.872	0.12		
3.732	32639	35941	1.101	0.19		
3.757	24903	28786	1.156	0.14		
3.827	309924	194764	0.628	1.84		
3.930	154650	131637	0.851	0.92		
3.996	105091	94784	0.902	0.62		
4.058	20977	14811	0.706	0.12		
4.215	34584	31722	0.917	0.20		
4.262	26916	30192	1.122	0.16		
4.292	16244	12494	0.769	0.09		
4.374	10462	9206	0.880	0.06		
4.418	41223	41705	1.012	0.24		
4.452	49711	28399	0.571	0.29		
4.545	54290	46656	0.859	0.32		
4.616	14003	11847	0.846	0.08		
4.812	21709	20229	0.932	0.12		
4.848	35650	33592	0.942	0.21		
4.882	55103	37630	0.683	0.32		

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

Total unknown % area = 79

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SW846-8082

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

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

QC Flag Legend

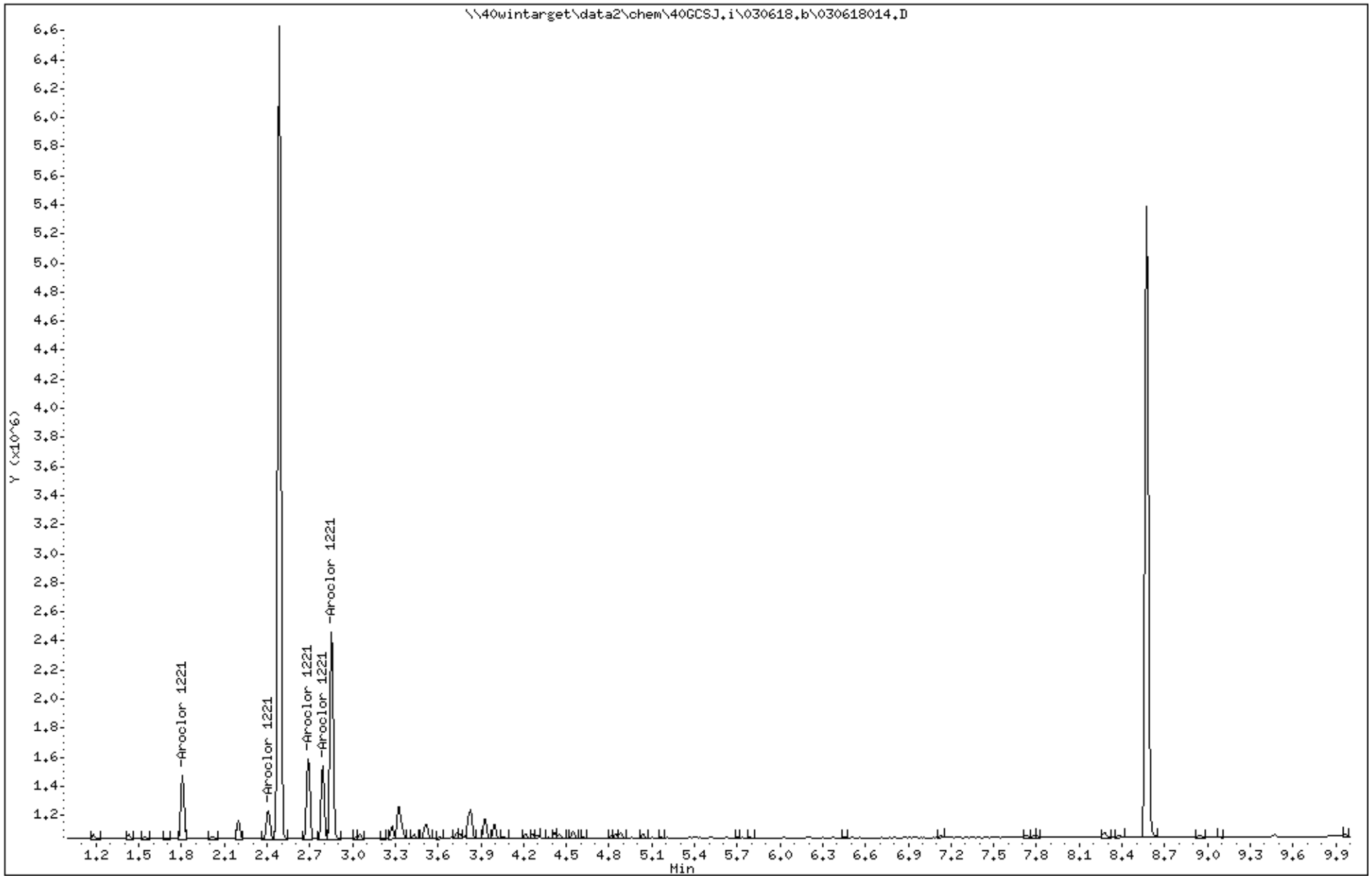
M - Compound response manually integrated.

Review Codes Legend

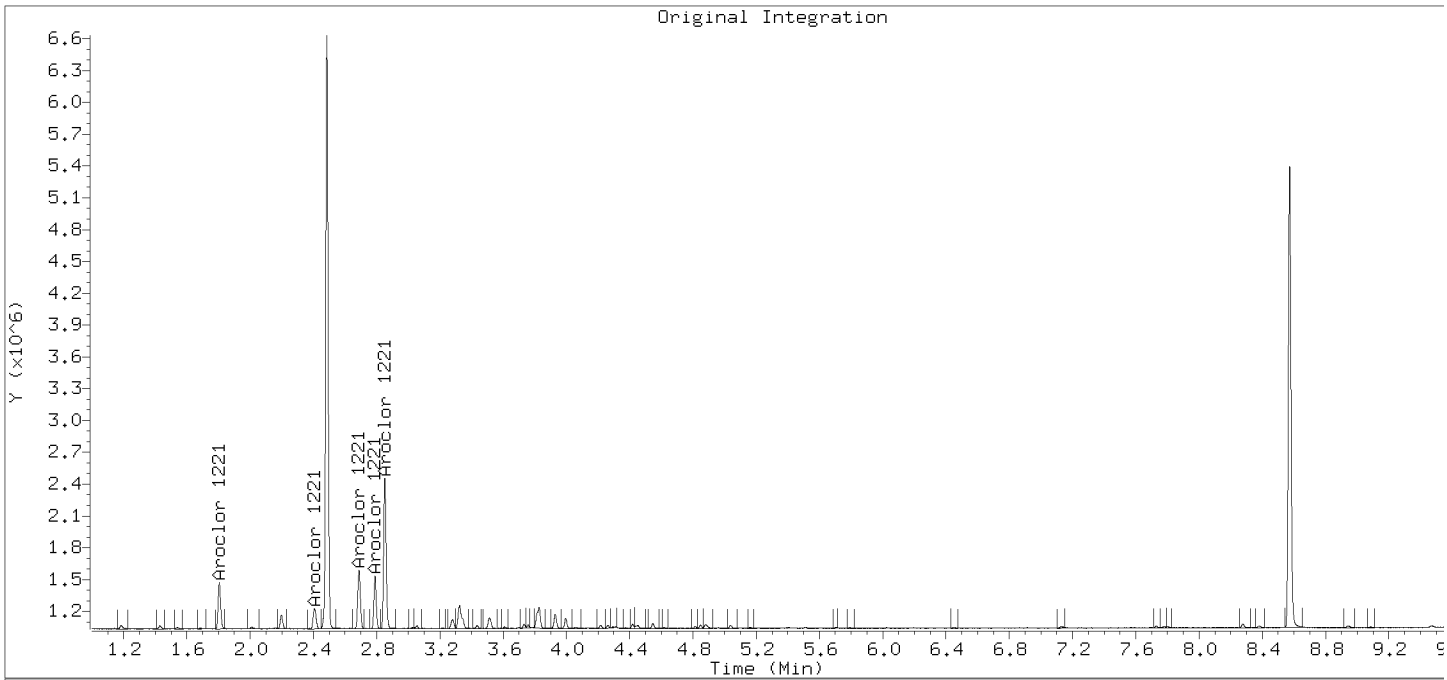
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

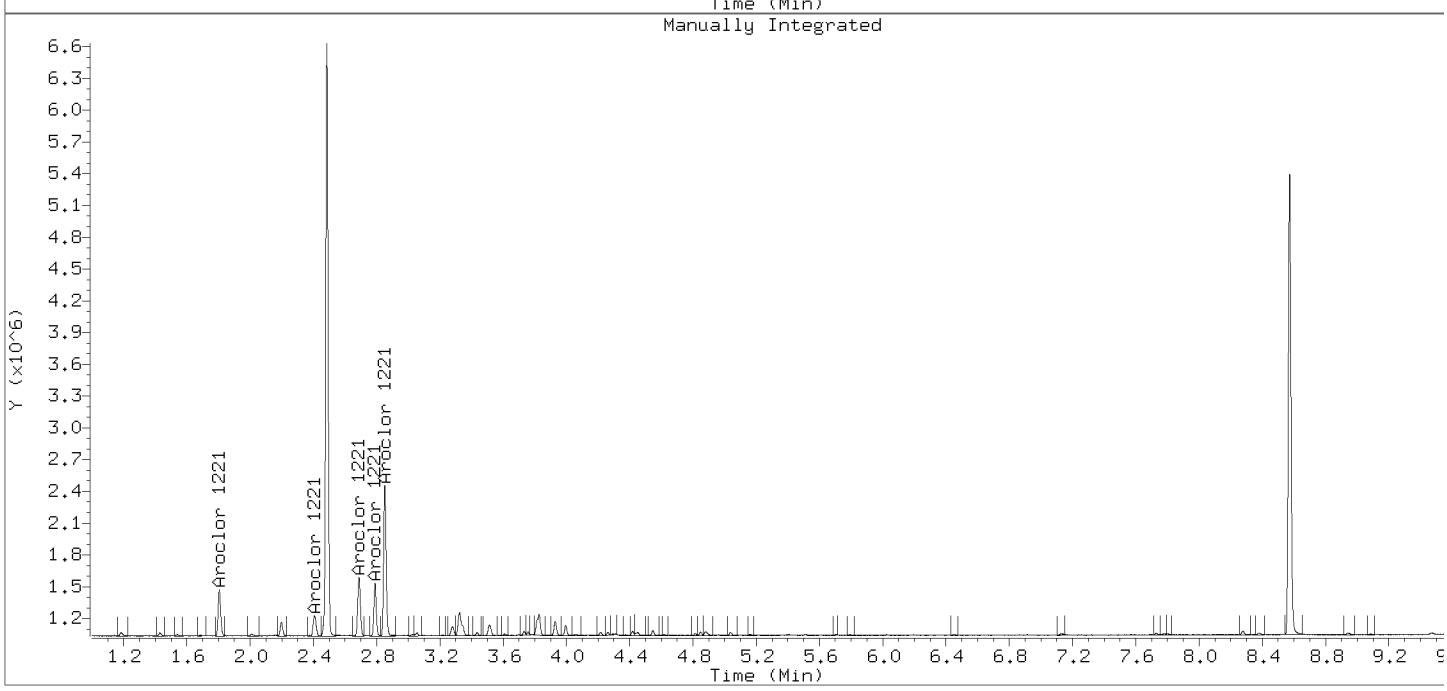
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D

Date : 06-MAR-2018 12:55

Client ID: 1221-CAL4F

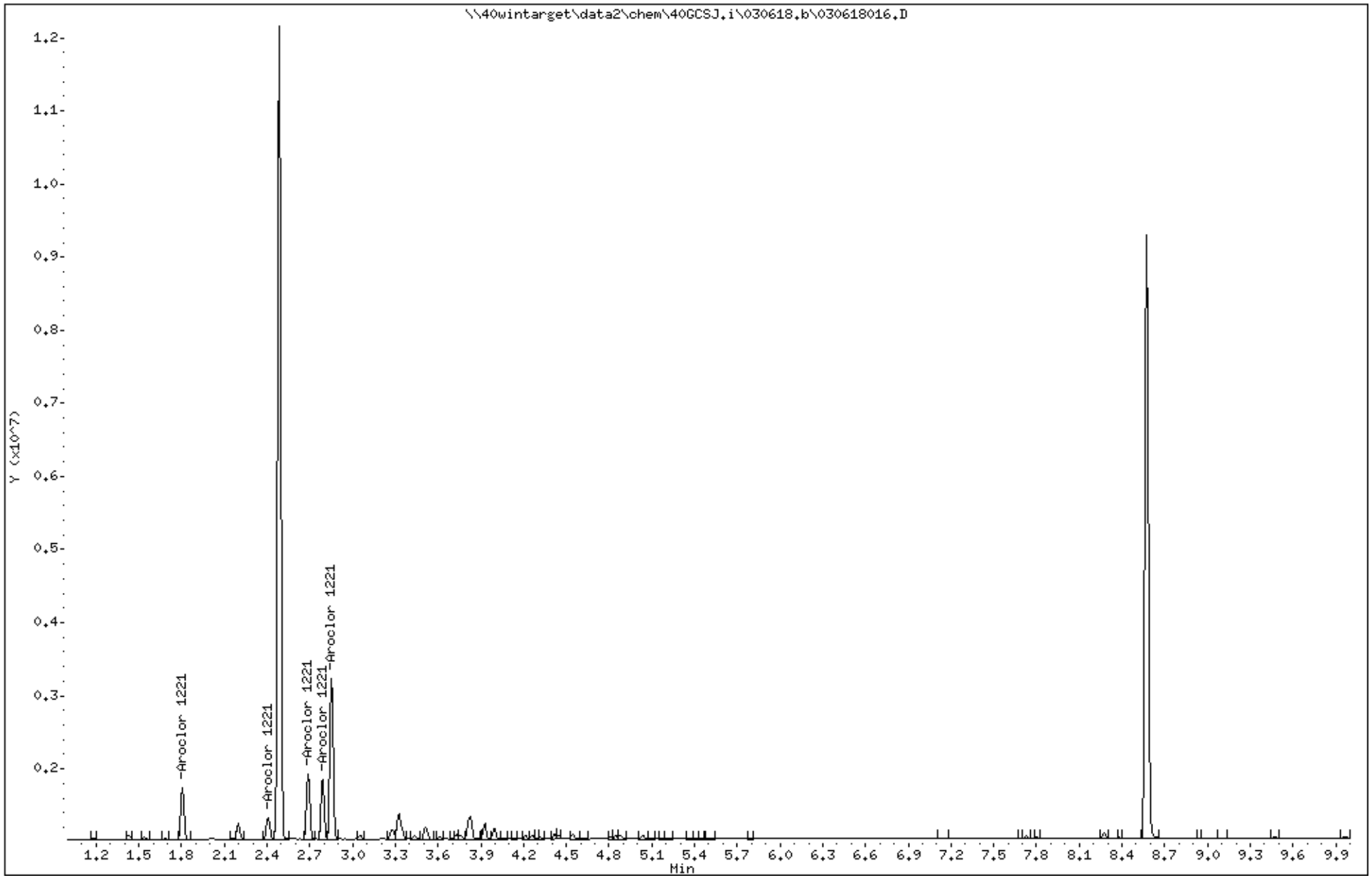
Instrument: 40GCSJ.i

Sample Info: 1221-CAL4F, 188140:1

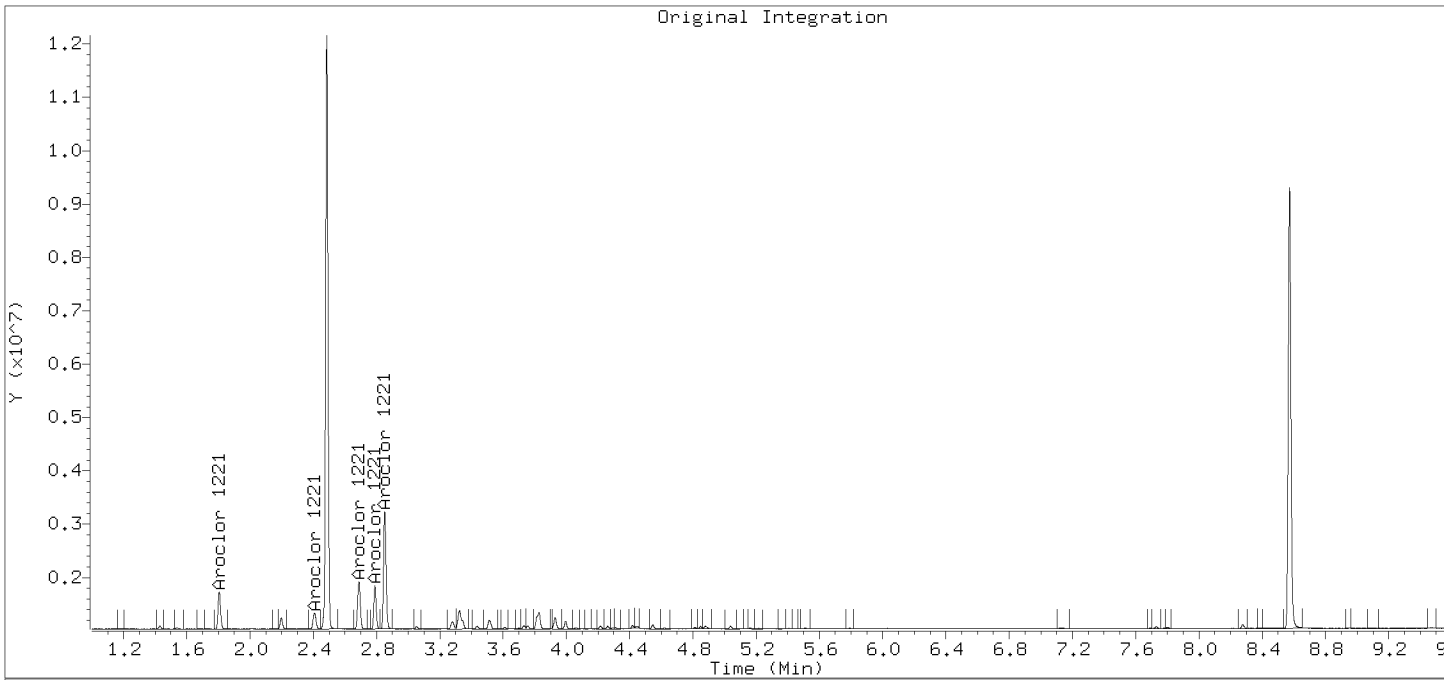
Operator: BLM

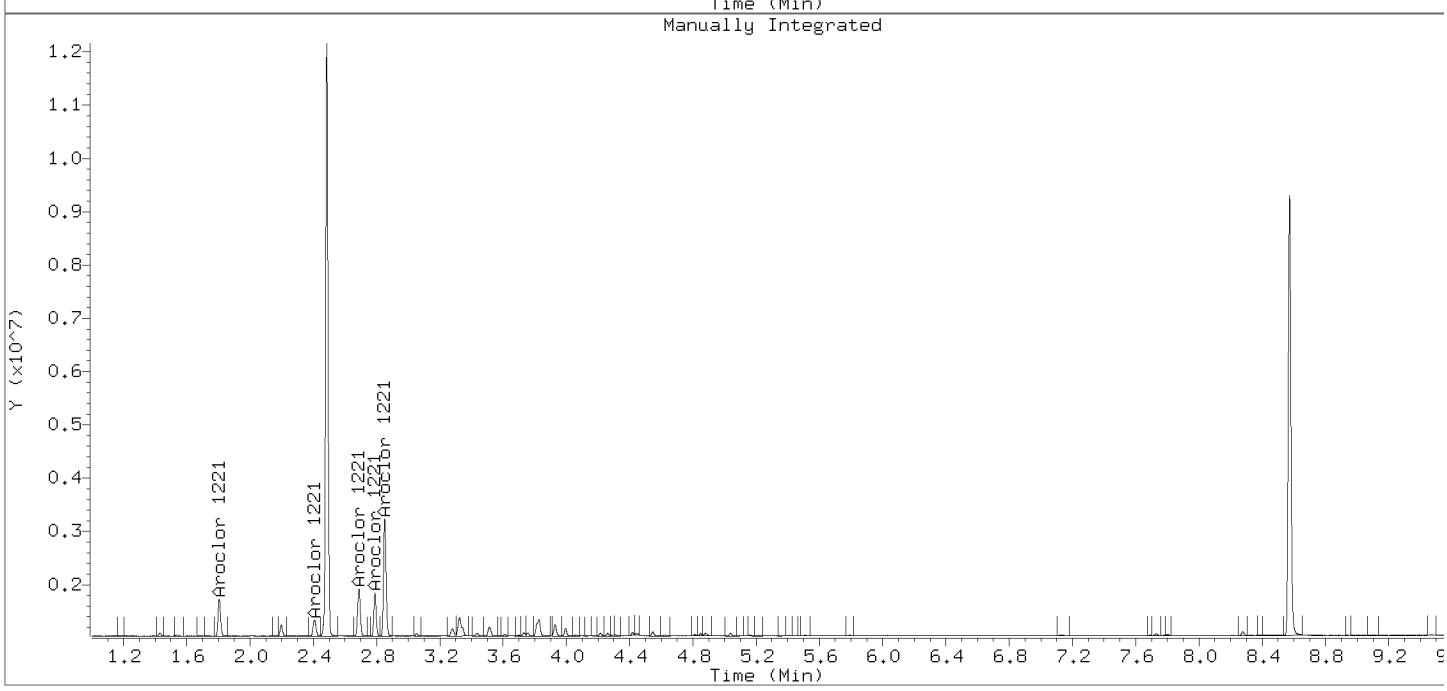
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Lab Smp Id: 1221-CAL5F Client Smp ID: 1221-CAL5F
Inj Date : 06-MAR-2018 13:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:11 Cal File: 030618018.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.429	91782	83949	0.915	0.21		
1.539	45153	34415	0.762	0.10		
1.806	964273	851004	0.883	2.23	1 Aroclor 1221	BA
2.014	11838	7838	0.662	0.02		
2.160	16492	15827	0.960	0.03		
2.198	286599	255763	0.892	0.66		
2.408	501535	366636	0.731	1.16	1 Aroclor 1221	BA
2.486	17378255	16694368	0.961	40.52		
2.688	1314776	1093955	0.832	3.04	1 Aroclor 1221	BA
2.790	1091213	1024965	0.939	2.52	1 Aroclor 1221	BA
2.851	3058815	2705599	0.885	7.08	1 Aroclor 1221	BA
3.053	74407	64323	0.864	0.17		
3.217	18486	13382	0.724	0.04		
3.281	228692	172494	0.754	0.52		
3.325	747509	424295	0.568	1.73		
3.436	77500	63495	0.819	0.17		
3.513	280490	203651	0.726	0.64		
3.612	49578	44845	0.905	0.11		
3.701	23500	20479	0.871	0.05		
3.734	76655	76322	0.996	0.17		
3.757	81462	74126	0.910	0.18		
3.827	635271	385105	0.606	1.47		
3.929	312825	252728	0.808	0.72		
3.995	186590	175263	0.939	0.43		
4.062	31750	23556	0.742	0.07		
4.138	17974	12098	0.673	0.04		
4.217	72031	63997	0.888	0.16		
4.261	66789	61014	0.914	0.15		
4.293	54107	32297	0.597	0.12		
4.418	84432	78861	0.934	0.19		
4.451	94426	56177	0.595	0.21		
4.546	109930	92350	0.840	0.25		
4.618	33492	25022	0.747	0.07		
4.815	42406	39475	0.931	0.09		
4.849	68687	65653	0.956	0.15		
4.881	95718	65369	0.683	0.22		
4.957	18933	12531	0.662	0.04		

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

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Lab Smp Id: 1221-CAL5F Client Smp ID: 1221-CAL5F
Inj Date : 06-MAR-2018 13:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17498,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:11 Cal File: 030618018.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.806	1.804	0.002	964273	1.00000	0.93	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	501535	1.00000	0.92	0.00- 20.00	52.01	BA
2.688	2.688	0.000	1314775	1.00000	0.95	0.00- 20.00	136.35	BA
2.789	2.789	0.000	1091213	1.00000	0.99	0.00- 20.00	113.16	BA
2.851	2.851	0.000	3058814	1.00000	0.94	0.00- 20.00	317.21	BA
Average of Peak Amounts =					0.94600			

QC Flag Legend

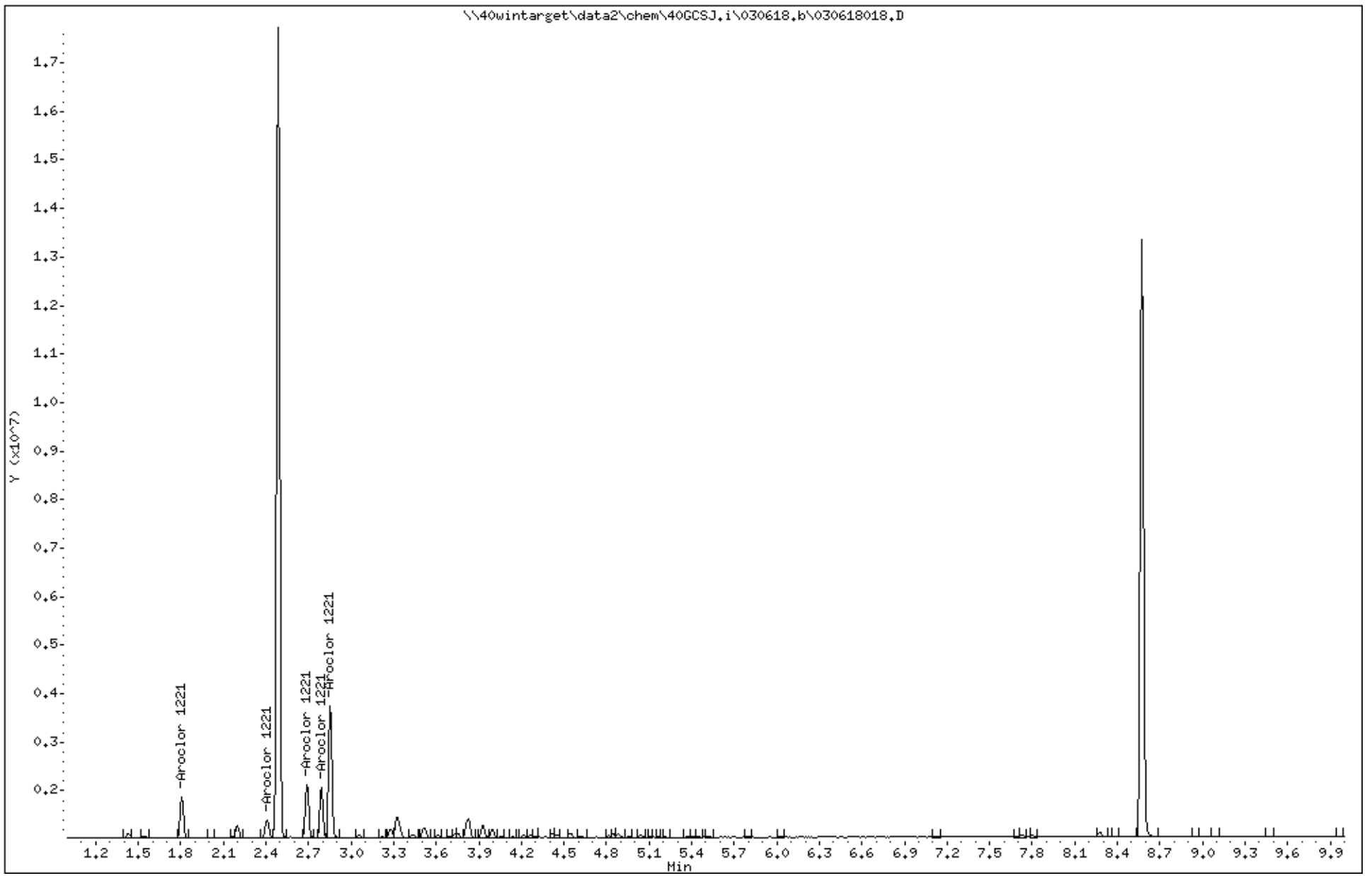
M - Compound response manually integrated.

Review Codes Legend

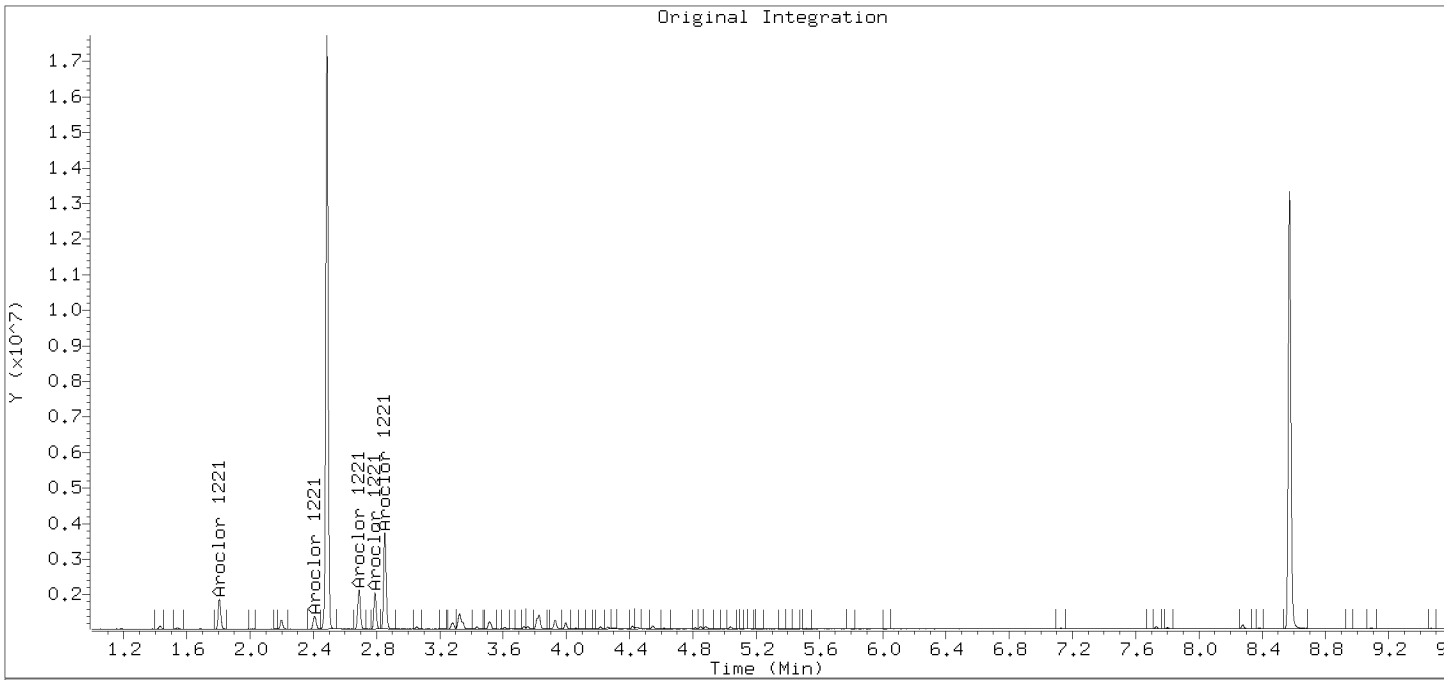
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

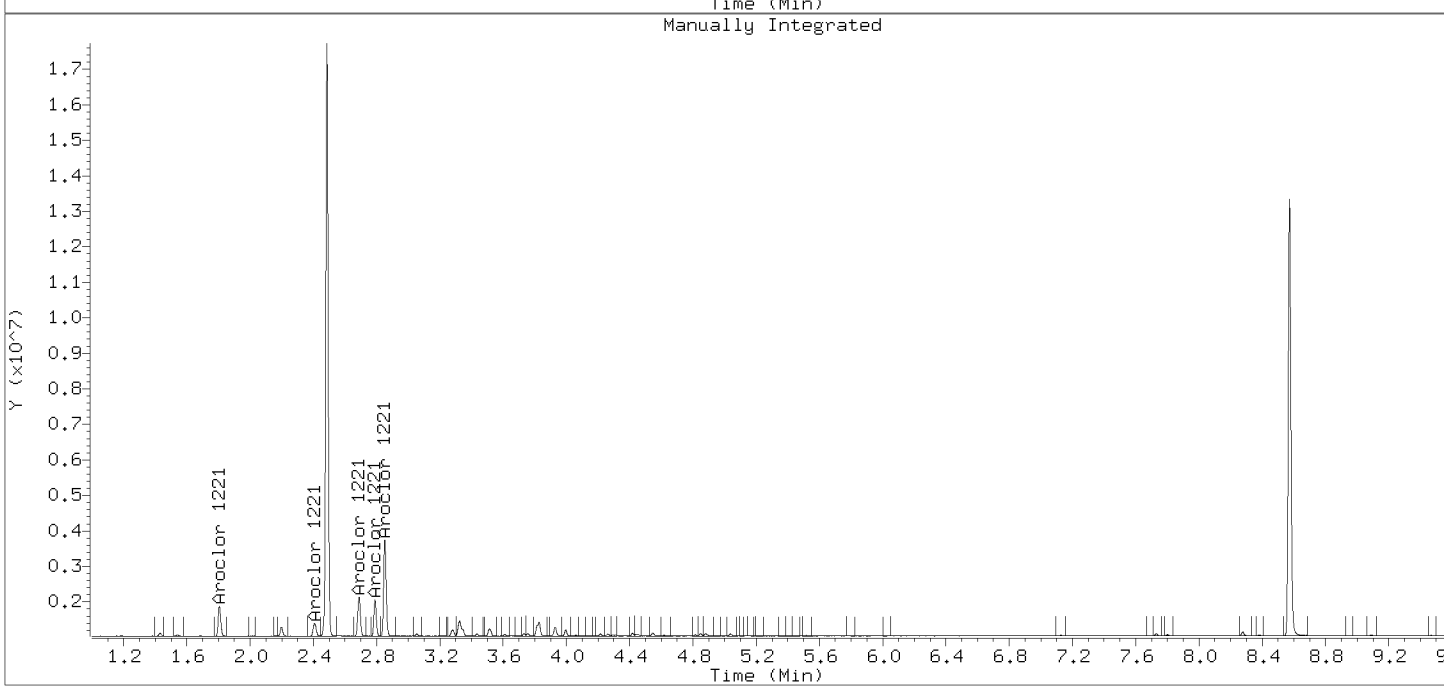
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

Average of Peak Amounts = 0.11000

QC Flag Legend

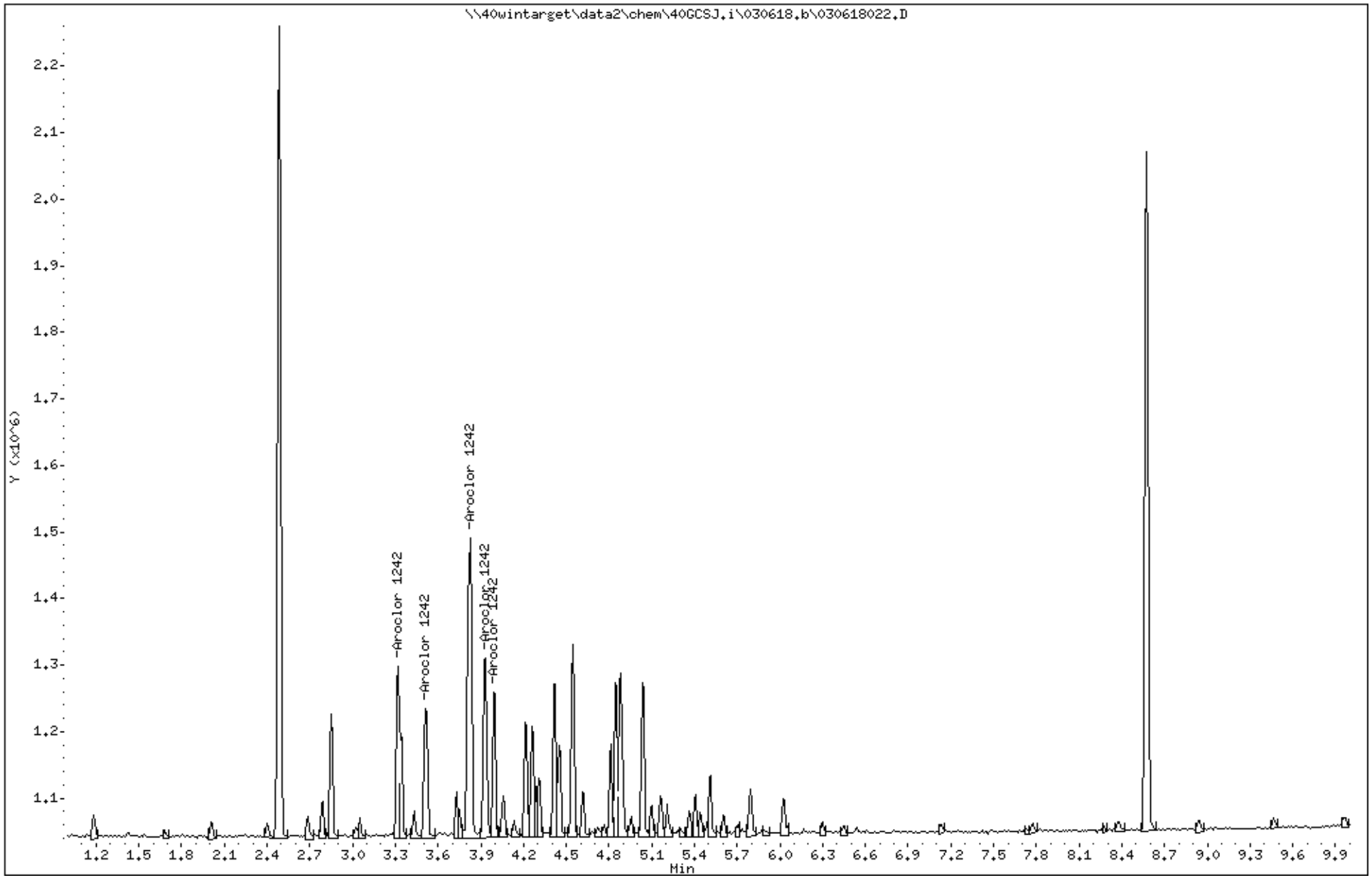
M - Compound response manually integrated.

Review Codes Legend

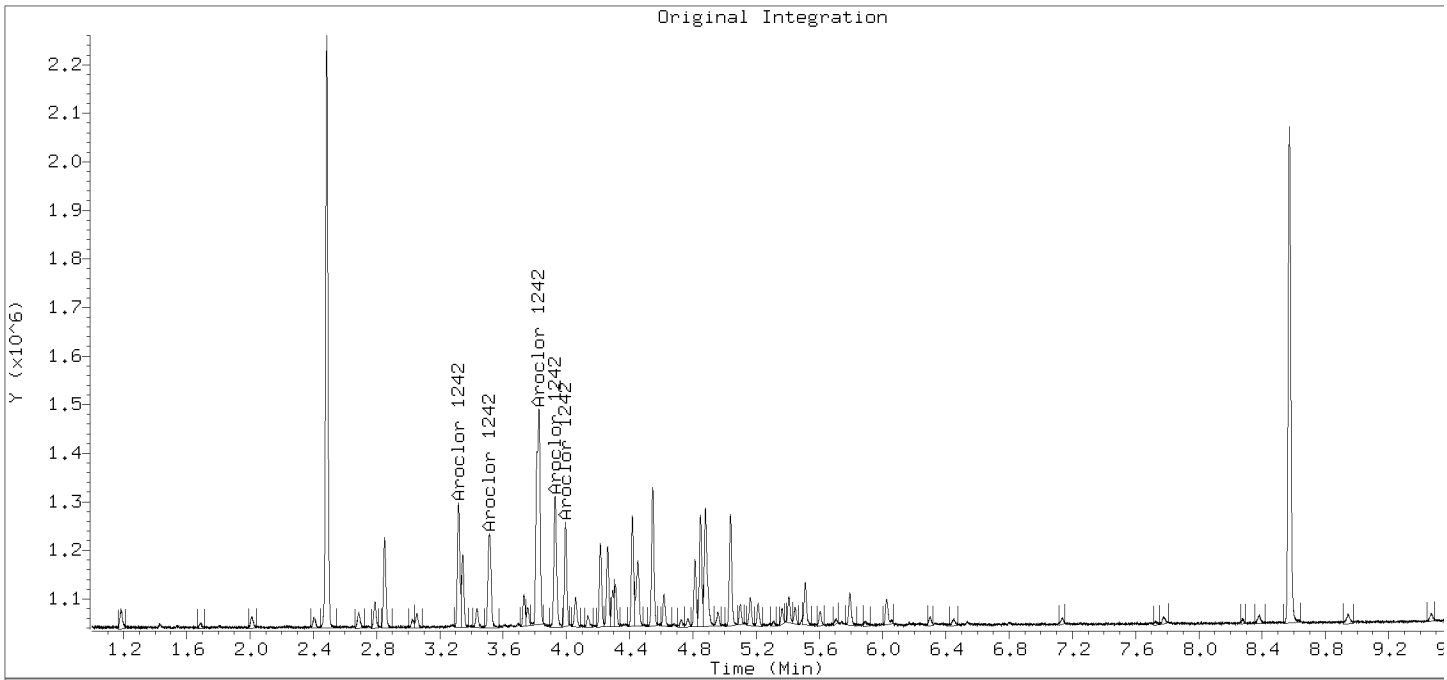
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

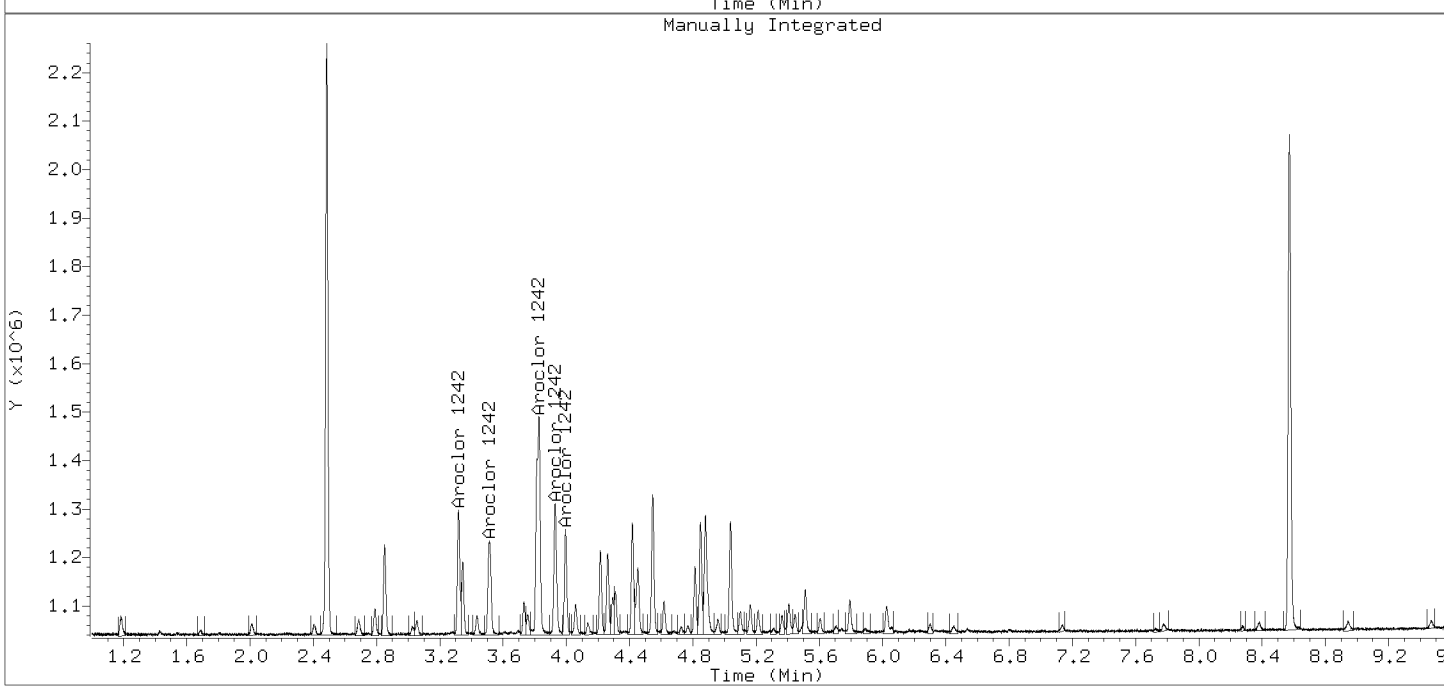
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Lab Smp Id: 1242-CAL2B Client Smp ID: 1242-CAL2B
Inj Date : 06-MAR-2018 14:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:00 Cal File: 030618024.D
Als bottle: 13 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	14220	11208	0.788	0.08		
1.430	13376	14873	1.112	0.08		
1.537	12556	8533	0.680	0.07		
1.684	10310	8364	0.811	0.06		
1.803	9301	8955	0.963	0.05		
2.404	53409	39369	0.737	0.33		
2.484	2424898	2340795	0.965	15.45		
2.685	71092	59059	0.831	0.44		
2.789	112696	106870	0.948	0.70		
2.851	383763	360025	0.938	2.38		
3.054	60192	54572	0.907	0.37		
3.319	537600	506479	0.942	3.34	3 Aroclor 1242	BA
3.344	300840	286923	0.954	1.87		
3.434	87992	78217	0.889	0.54		
3.514	520152	378008	0.727	3.23	3 Aroclor 1242	BA
3.607	13378	11603	0.867	0.08		
3.696	19908	16213	0.814	0.12		
3.732	129346	131457	1.016	0.80		
3.756	89938	85088	0.946	0.56		
3.826	1494620	886299	0.593	9.30	3 Aroclor 1242	BA
3.929	633849	547272	0.863	3.94	3 Aroclor 1242	BA
3.994	415519	392907	0.946	2.58	3 Aroclor 1242	BA
4.059	126568	116783	0.923	0.78		
4.137	53777	45505	0.846	0.33		
4.216	349073	338096	0.969	2.17		
4.261	336841	321968	0.956	2.09		
4.293	139012	148834	1.071	0.86		
4.310	185086	169258	0.914	1.15		
4.372	13133	10098	0.769	0.08		
4.418	470013	436944	0.930	2.92		
4.452	357597	265664	0.743	2.22		
4.546	610105	562073	0.921	3.79		
4.618	143247	130258	0.909	0.89		
4.727	34627	28696	0.829	0.21		
4.768	38705	34109	0.881	0.24		
4.814	277192	264316	0.954	1.72		
4.849	476923	458153	0.961	2.97		

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

Total unknown % area = 78

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Lab Smp Id: 1242-CAL2B Client Smp ID: 1242-CAL2B
Inj Date : 06-MAR-2018 14:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:00 Cal File: 030618024.D
Als bottle: 13 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	537600	0.20000	0.21	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	520151	0.20000	0.21	0.00- 20.00	96.75	BA
3.826	3.827	-0.001	1494620	0.20000	0.21	0.00- 20.00	278.02	BA
3.929	3.929	0.000	633849	0.20000	0.21	0.00- 20.00	117.90	BA
3.994	3.995	-0.001	415519	0.20000	0.20	0.00- 20.00	77.29	BA
Average of Peak Amounts =					0.20800			

QC Flag Legend

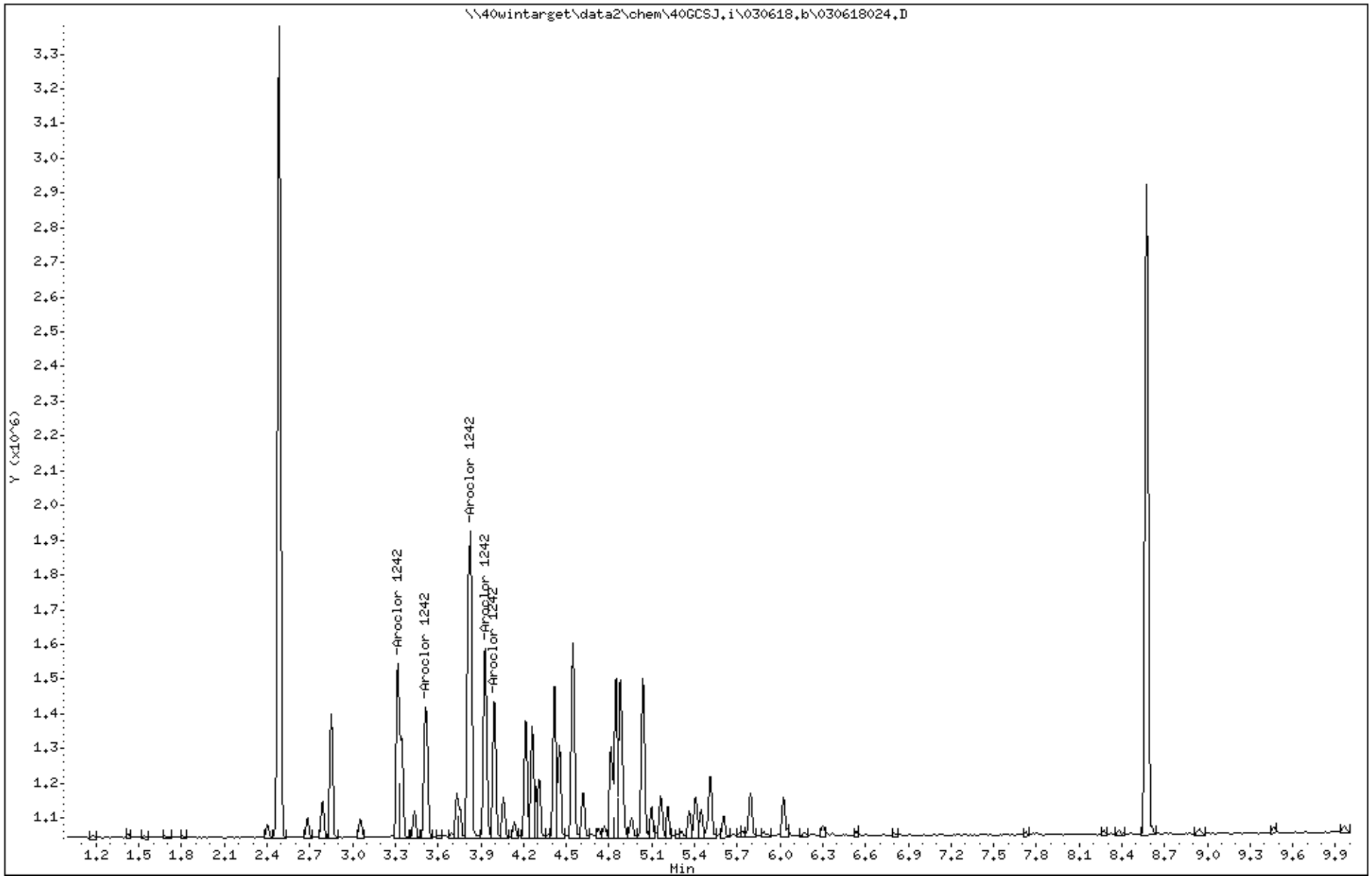
M - Compound response manually integrated.

Review Codes Legend

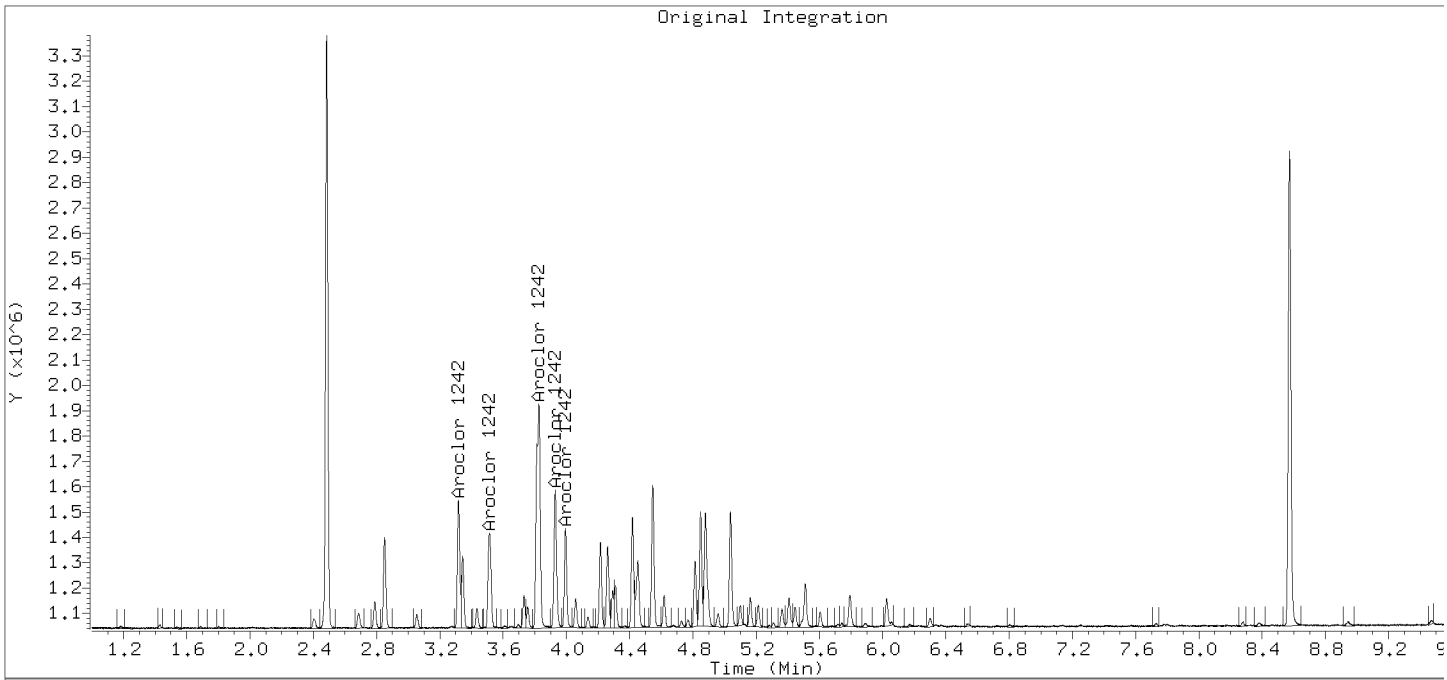
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

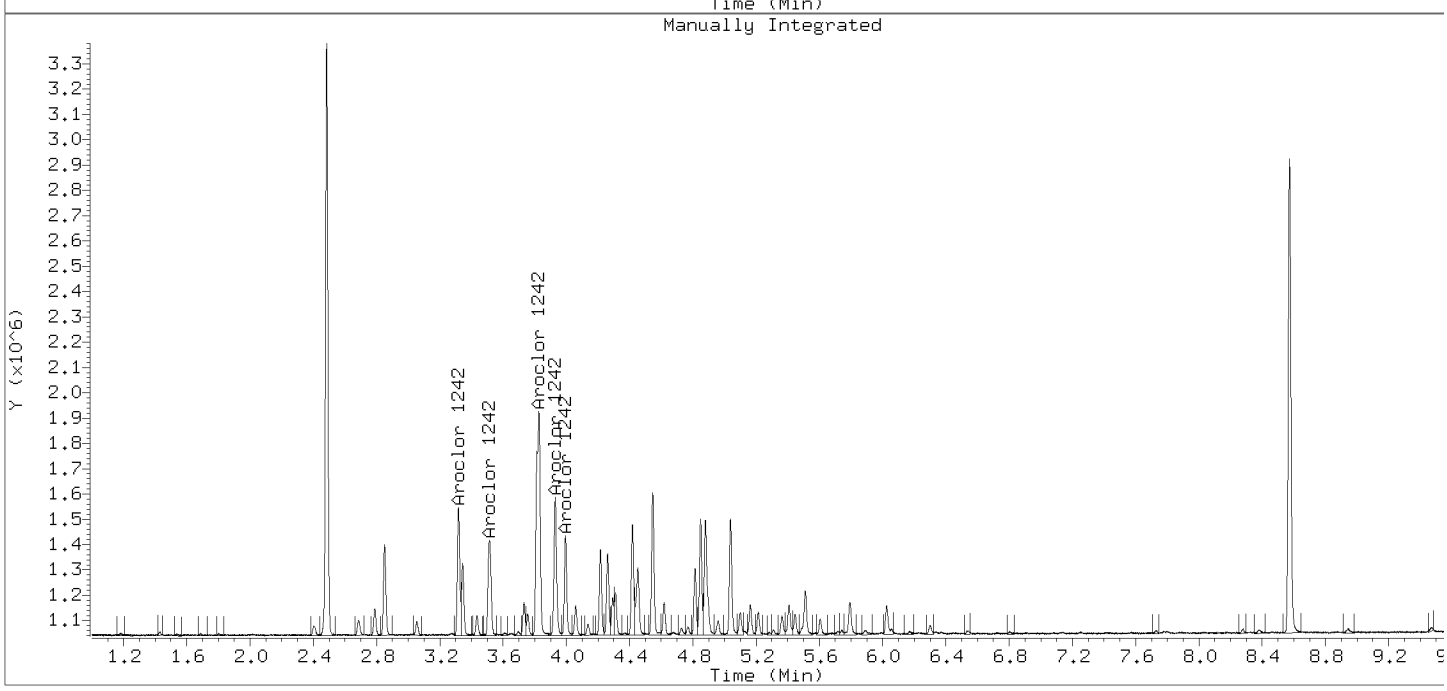
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Lab Smp Id: 1242-CAL3B Client Smp ID: 1242-CAL3B
Inj Date : 06-MAR-2018 14:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:16 Cal File: 030618026.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	62004	50847	0.820	0.16		
1.431	37460	32055	0.856	0.09		
1.541	14316	12367	0.864	0.03		
1.687	15486	12743	0.823	0.04		
1.807	18746	14208	0.758	0.04		
2.011	43433	33553	0.773	0.11		
2.406	117538	91845	0.781	0.30		
2.485	5892252	5641423	0.957	15.80		
2.688	168721	139553	0.827	0.44		
2.789	263881	249457	0.945	0.68		
2.851	912957	864348	0.947	2.38		
3.032	23465	23649	1.008	0.06		
3.054	147736	128585	0.870	0.38		
3.278	22664	16866	0.744	0.05		
3.318	1252566	1174122	0.937	3.27	3 Aroclor 1242	BA
3.344	702584	667750	0.950	1.83		
3.435	195742	182887	0.934	0.51		
3.514	1253174	902840	0.720	3.27	3 Aroclor 1242	BA
3.610	20808	19442	0.934	0.05		
3.698	36264	35190	0.970	0.09		
3.733	310548	311302	1.002	0.81		
3.756	210733	195877	0.930	0.55		
3.827	3485663	2059745	0.591	9.11	3 Aroclor 1242	BA
3.929	1508994	1248466	0.827	3.94	3 Aroclor 1242	BA
3.995	1031466	974966	0.945	2.69	3 Aroclor 1242	BA
4.059	297827	269246	0.904	0.77		
4.137	124808	105679	0.847	0.32		
4.215	835282	795778	0.953	2.18		
4.262	800812	762657	0.952	2.09		
4.294	335573	342292	1.020	0.87		
4.310	418203	390877	0.935	1.09		
4.366	27246	20902	0.767	0.07		
4.418	1095729	1053734	0.962	2.86		
4.452	872734	643030	0.737	2.28		
4.546	1429253	1334739	0.934	3.73		
4.617	329513	299311	0.908	0.86		
4.679	25919	20313	0.784	0.06		

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Lab Smp Id: 1242-CAL3B Client Smp ID: 1242-CAL3B
Inj Date : 06-MAR-2018 14:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:16 Cal File: 030618026.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1252566	0.50000	0.49	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1253174	0.50000	0.50	0.00- 20.00	100.05	BA
3.827	3.827	0.000	3485663	0.50000	0.49	0.00- 20.00	278.28	BA
3.929	3.929	0.000	1508993	0.50000	0.50	0.00- 20.00	120.47	BA
3.995	3.995	0.000	1031465	0.50000	0.50	0.00- 20.00	82.35	BA
Average of Peak Amounts =					0.49600			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D

Date : 06-MAR-2018 14:16

Client ID: 1242-CAL3B

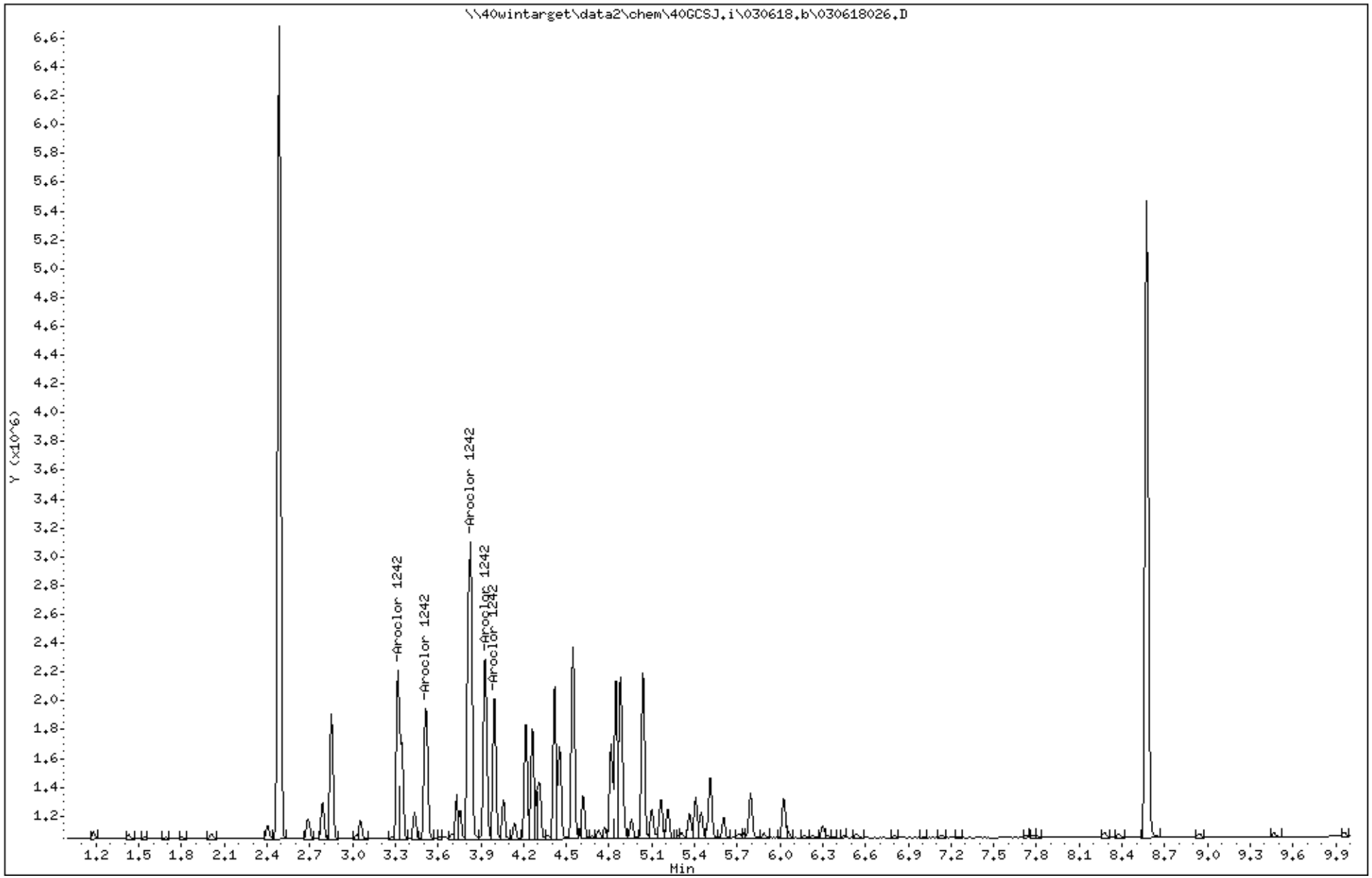
Instrument: 40GCSJ.i

Sample Info: 1242-CAL3B, 185544:1

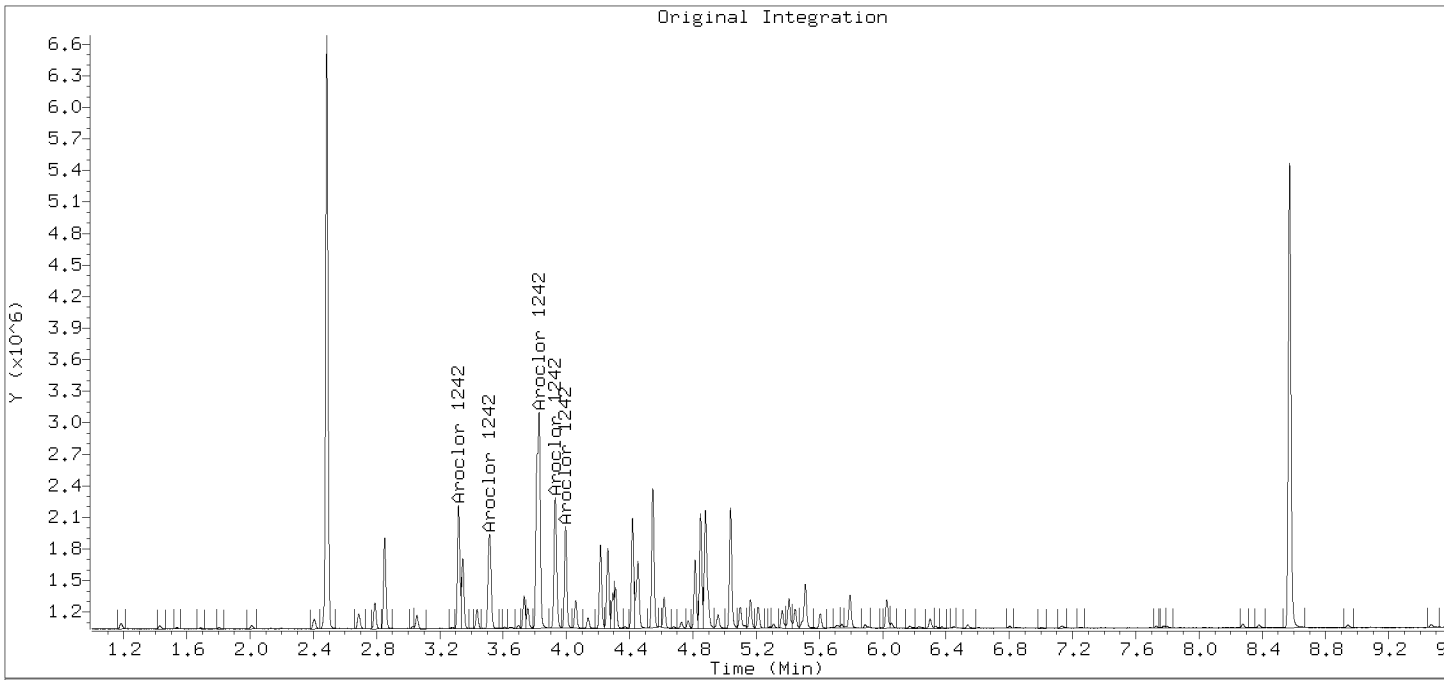
Operator: BLM

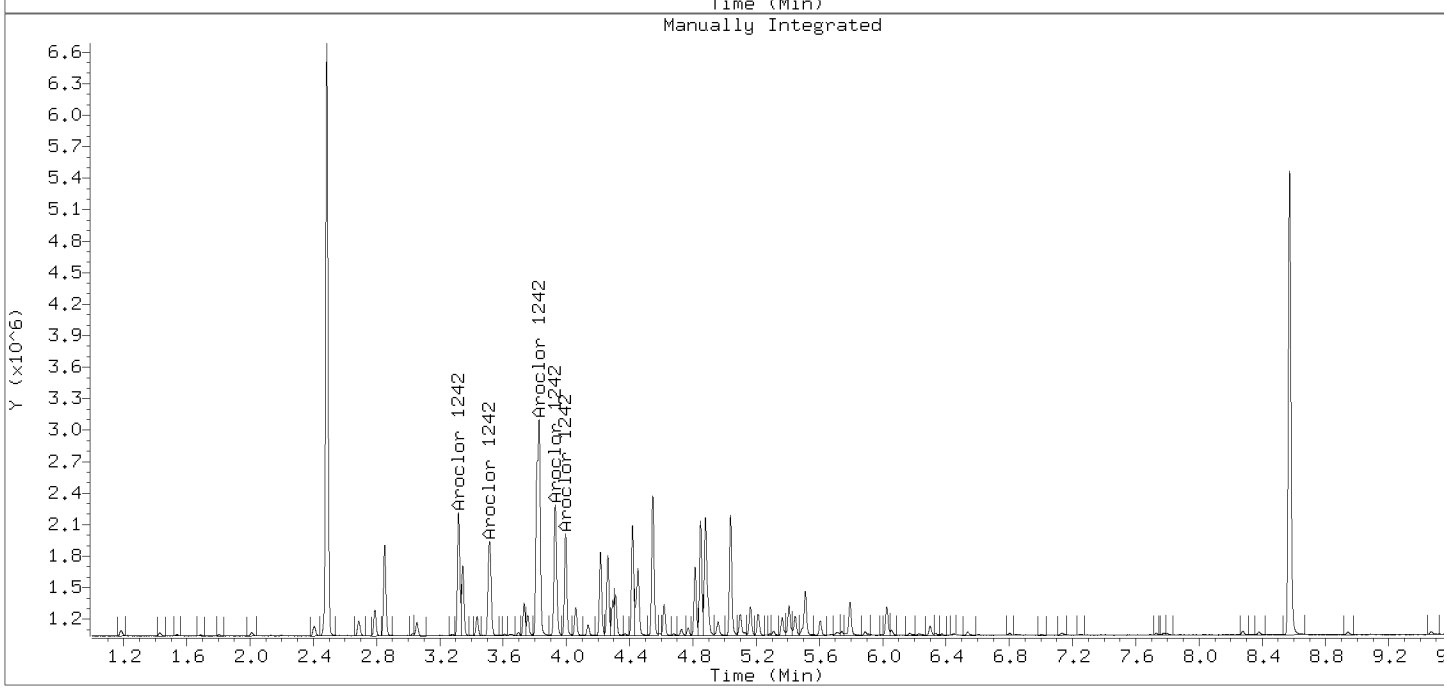
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D
Lab Smp Id: 1242-CAL4B Client Smp ID: 1242-CAL4B
Inj Date : 06-MAR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:32 Cal File: 030618028.D
Als bottle: 15 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	10080	10187	1.011	0.01		
1.429	71364	59862	0.839	0.11		
1.538	29625	26596	0.898	0.04		
1.688	11915	10660	0.895	0.01		
1.804	23856	18863	0.791	0.03		
2.007	10897	7828	0.718	0.01		
2.404	181872	142910	0.786	0.29		
2.485	11627123	11366999	0.978	18.98		
2.688	264051	219269	0.830	0.42		
2.789	434211	416960	0.960	0.69		
2.851	1404465	1315051	0.936	2.24		
3.055	207612	200354	0.965	0.33		
3.277	30044	24512	0.816	0.04		
3.318	1896850	1767208	0.932	3.03	3 Aroclor 1242	BA
3.345	1097148	1042916	0.951	1.75		
3.435	308786	278730	0.903	0.49		
3.514	1913733	1396800	0.730	3.05	3 Aroclor 1242	BA
3.611	36879	32861	0.891	0.05		
3.650	32275	21129	0.655	0.05		
3.698	52994	51432	0.971	0.08		
3.732	483352	488922	1.012	0.77		
3.757	311671	302713	0.971	0.49		
3.827	5388263	3191450	0.592	8.61	3 Aroclor 1242	BA
3.930	2300081	1902191	0.827	3.67	3 Aroclor 1242	BA
3.995	1542626	1468087	0.952	2.46	3 Aroclor 1242	BA
4.058	448445	418306	0.933	0.71		
4.137	178413	160377	0.899	0.28		
4.216	1273682	1194446	0.938	2.03		
4.262	1227232	1169872	0.953	1.96		
4.294	525419	547237	1.042	0.83		
4.311	636195	609901	0.959	1.01		
4.372	36108	28635	0.793	0.05		
4.417	1692750	1588767	0.939	2.70		
4.453	1331839	978159	0.734	2.12		
4.546	2184137	1978129	0.906	3.49		
4.617	508881	469073	0.922	0.81		
4.680	35054	29148	0.832	0.05		

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D
Lab Smp Id: 1242-CAL4B Client Smp ID: 1242-CAL4B
Inj Date : 06-MAR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17498,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:32 Cal File: 030618028.D
Als bottle: 15 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	1896850	0.80000	0.75	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1913733	0.80000	0.76	0.00- 20.00	100.89	BA
3.827	3.827	0.000	5388263	0.80000	0.76	0.00- 20.00	284.06	BA
3.930	3.929	0.001	2300081	0.80000	0.76	0.00- 20.00	121.26	BA
3.995	3.995	0.000	1542626	0.80000	0.75	0.00- 20.00	81.33	BA
Average of Peak Amounts =					0.75600			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618028.D

Date : 06-MAR-2018 14:32

Client ID: 1242-CAL4B

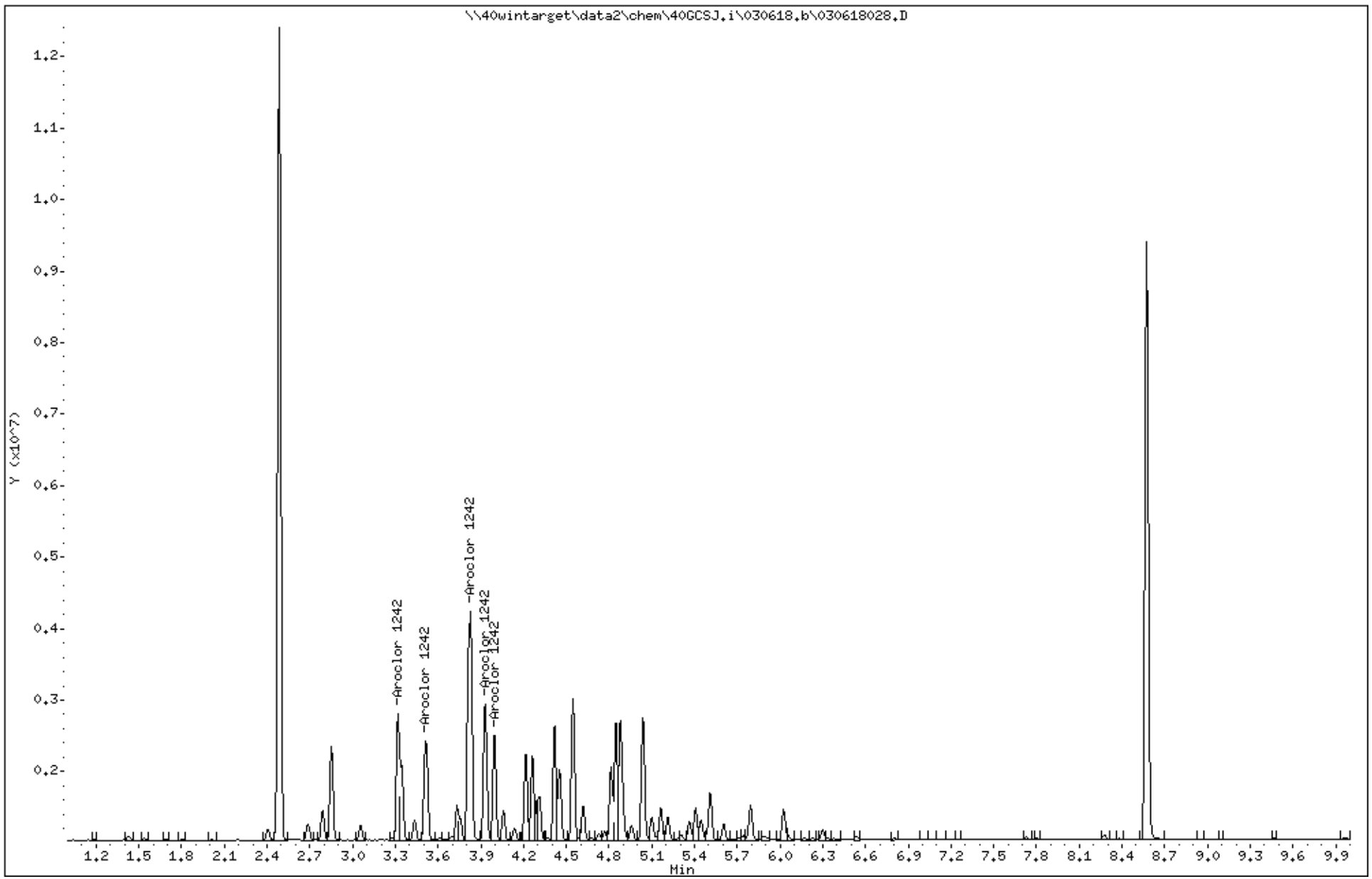
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

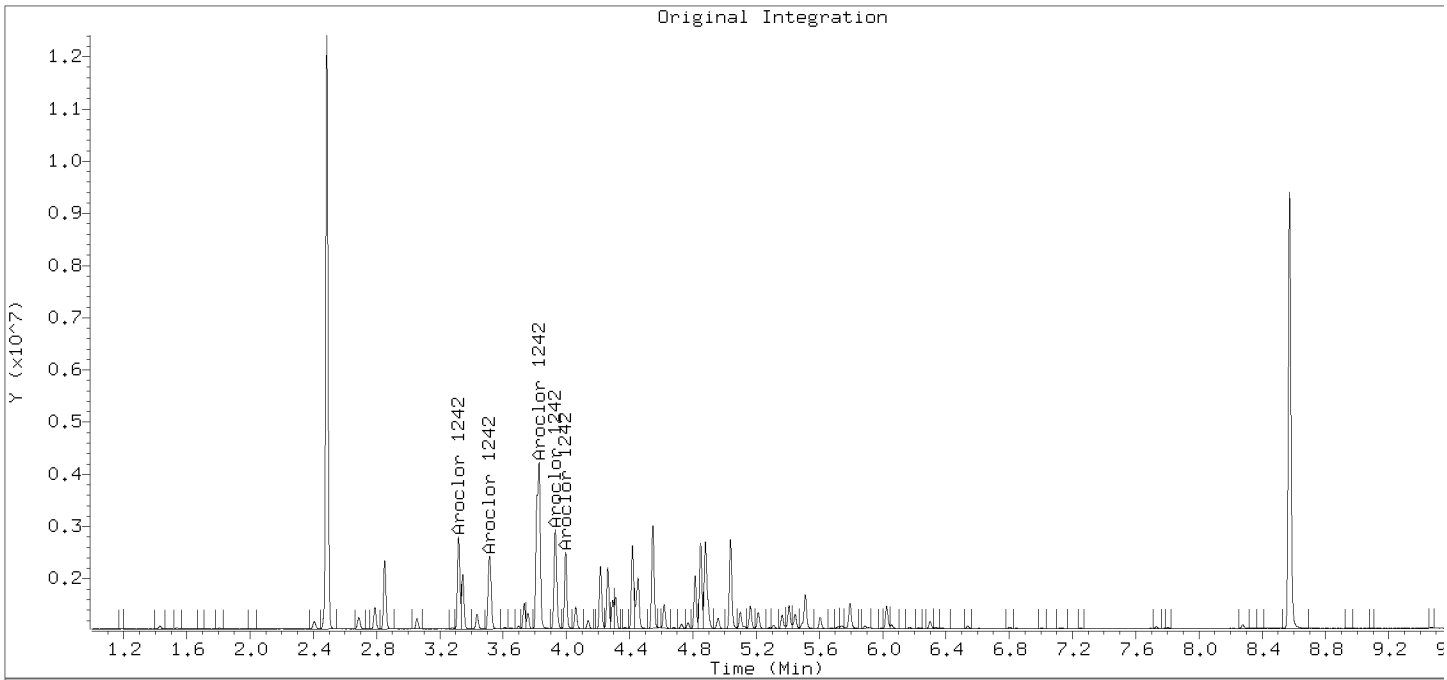
Operator: BLM

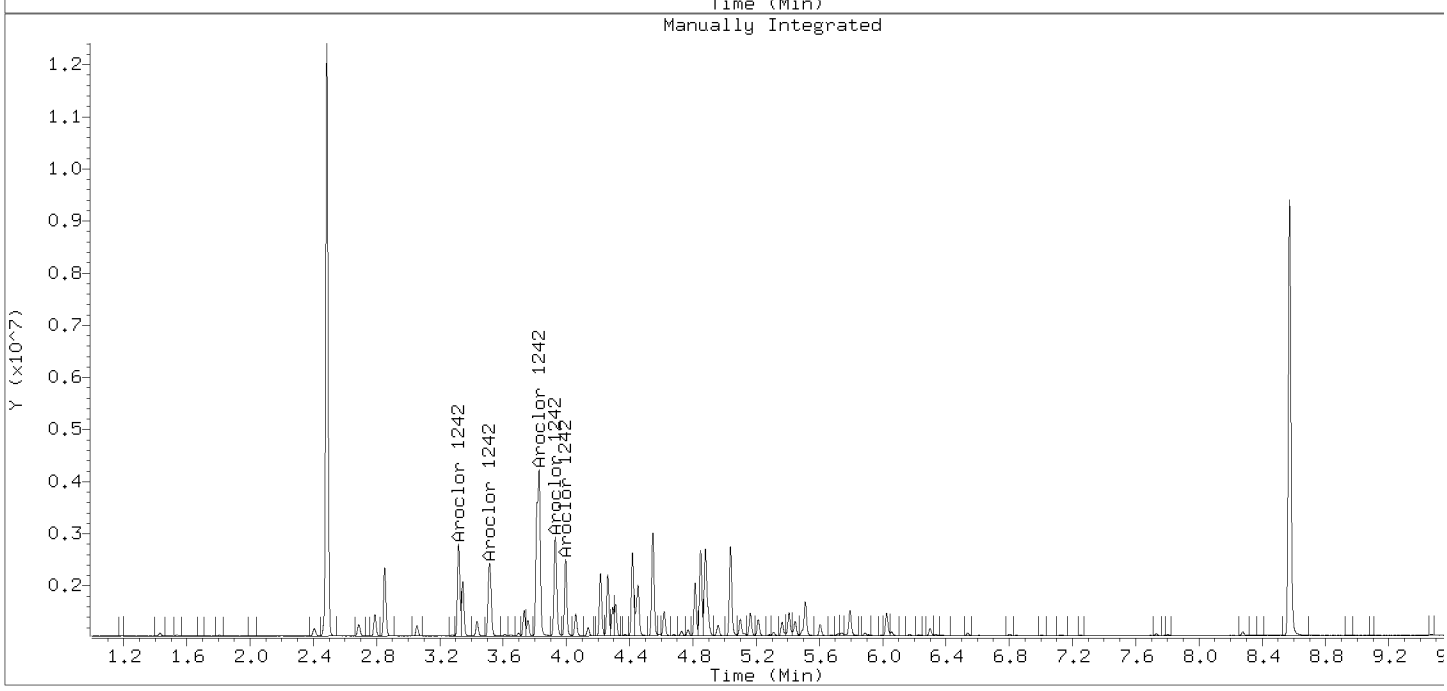
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

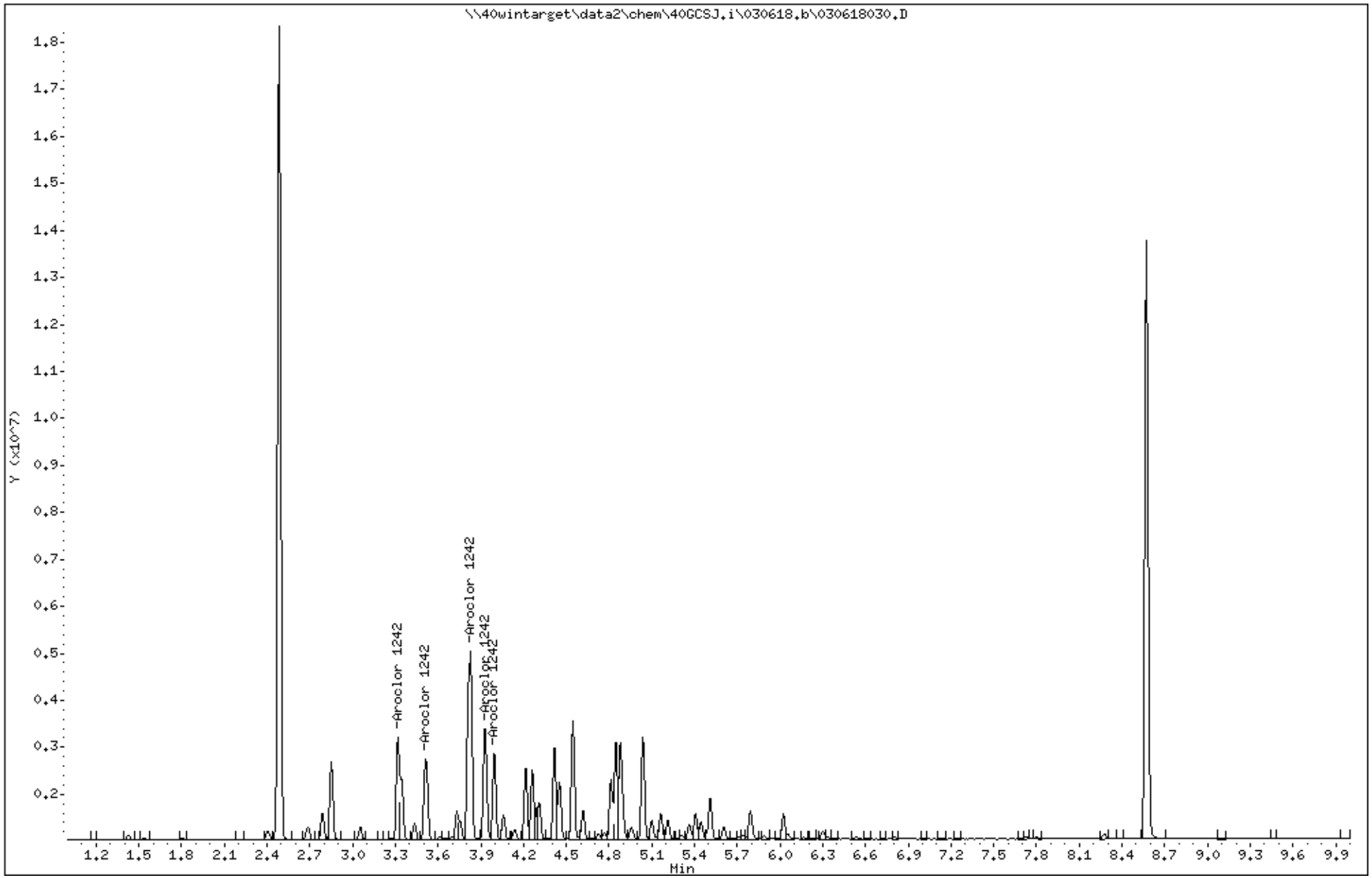
M - Compound response manually integrated.

Review Codes Legend

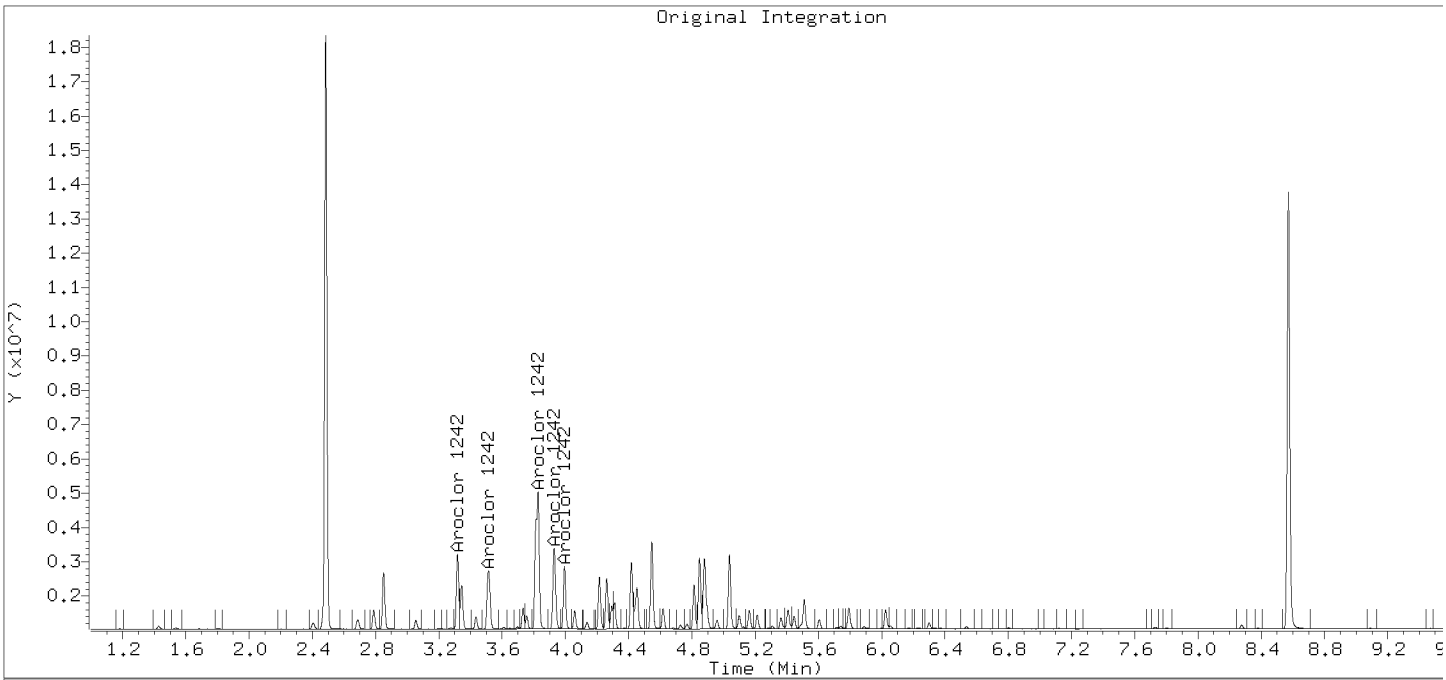
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

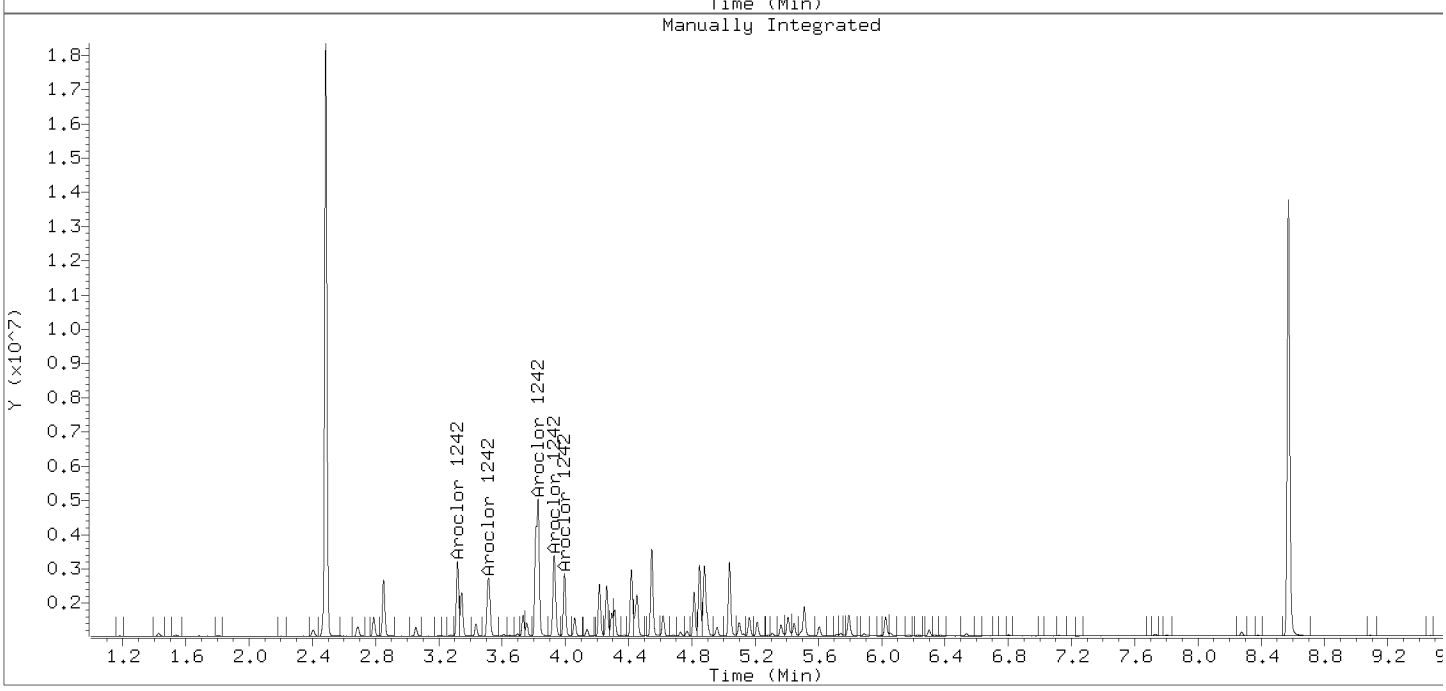
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

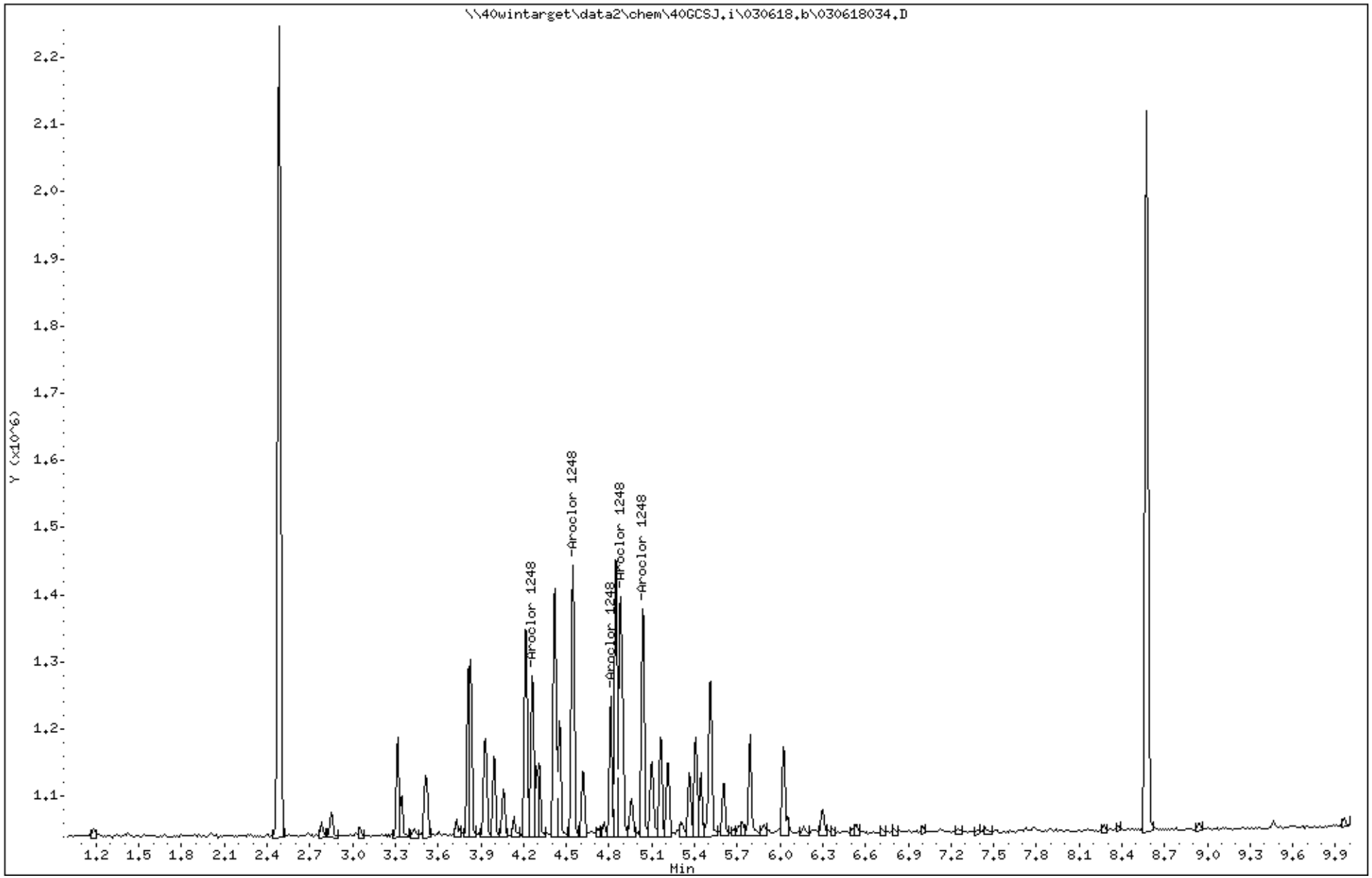
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSJ.i

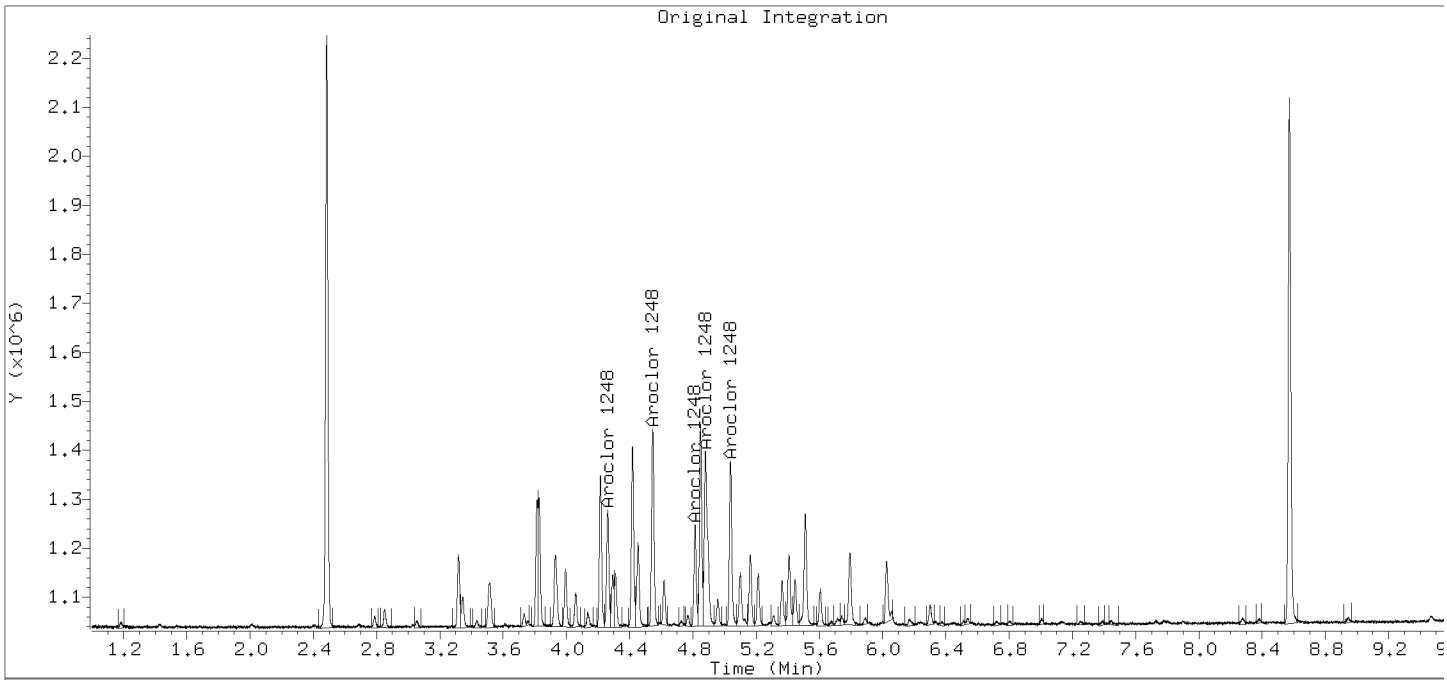
Operator: BLM

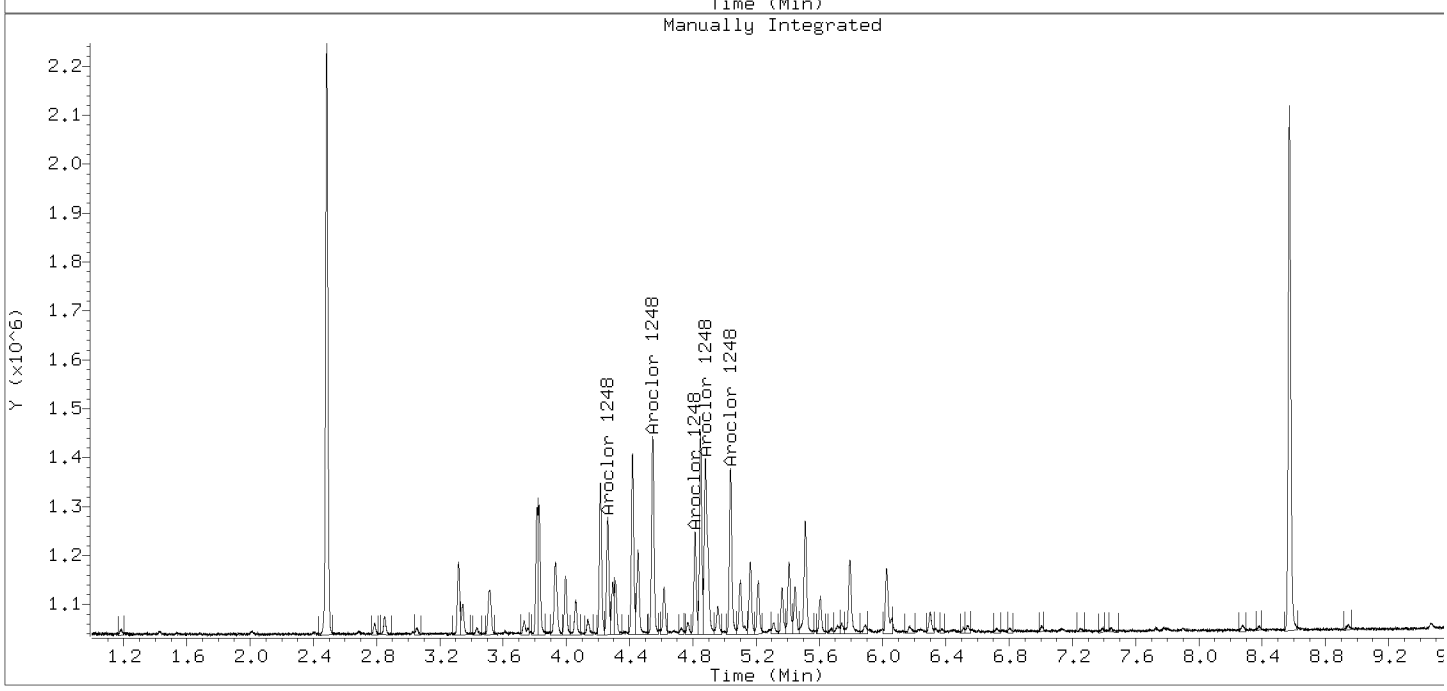
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D

Date : 06-MAR-2018 15:37

Client ID: 1248-CAL2D

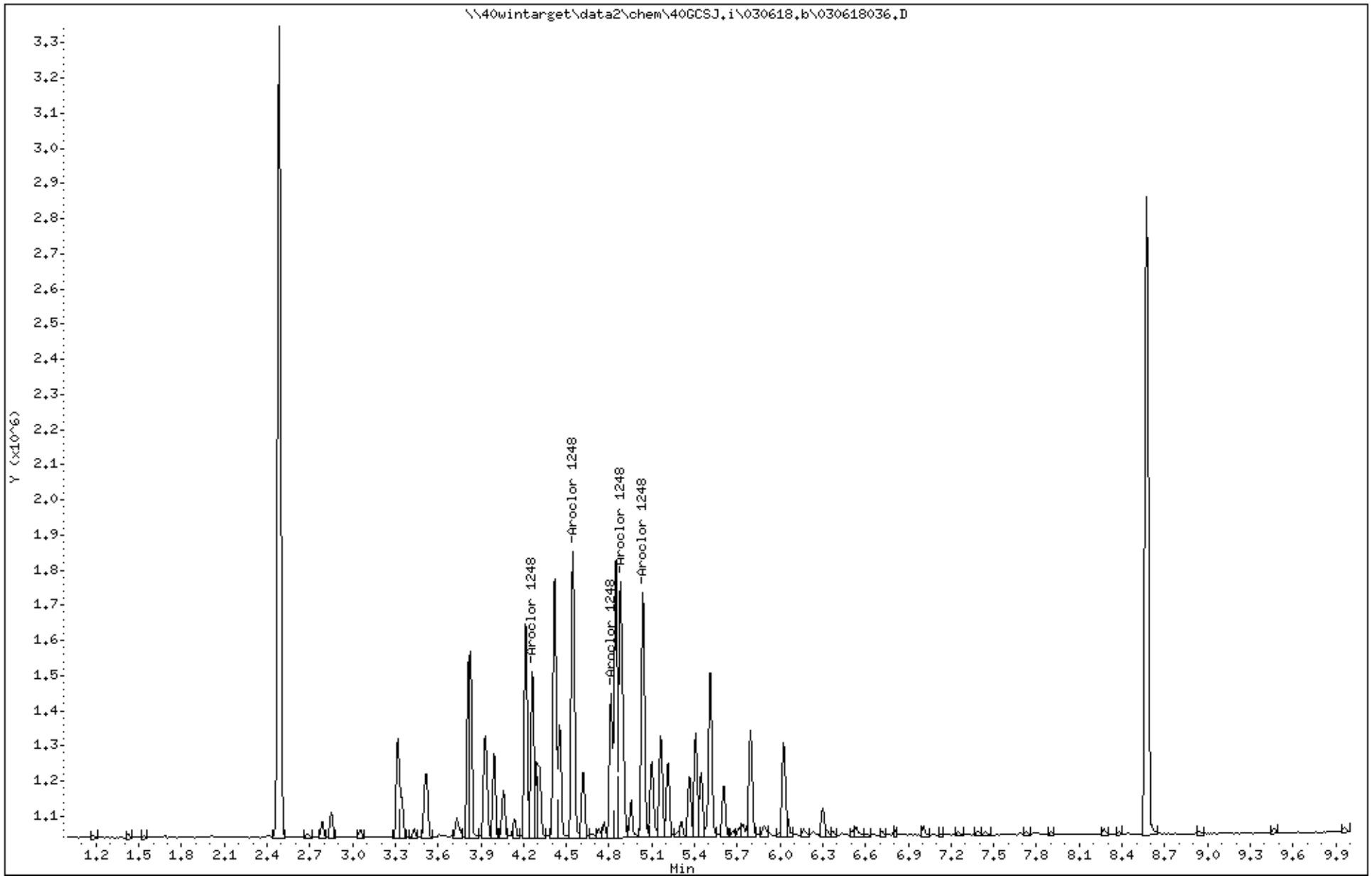
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

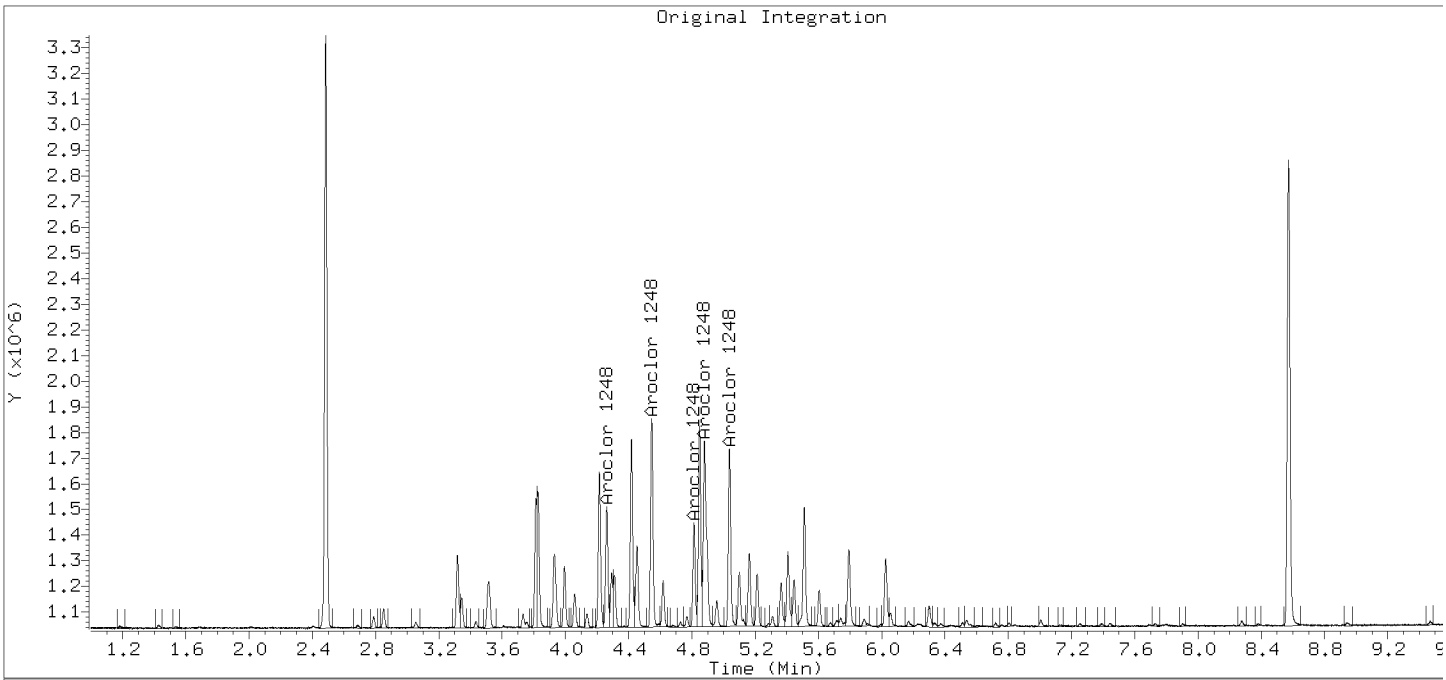
Operator: BLM

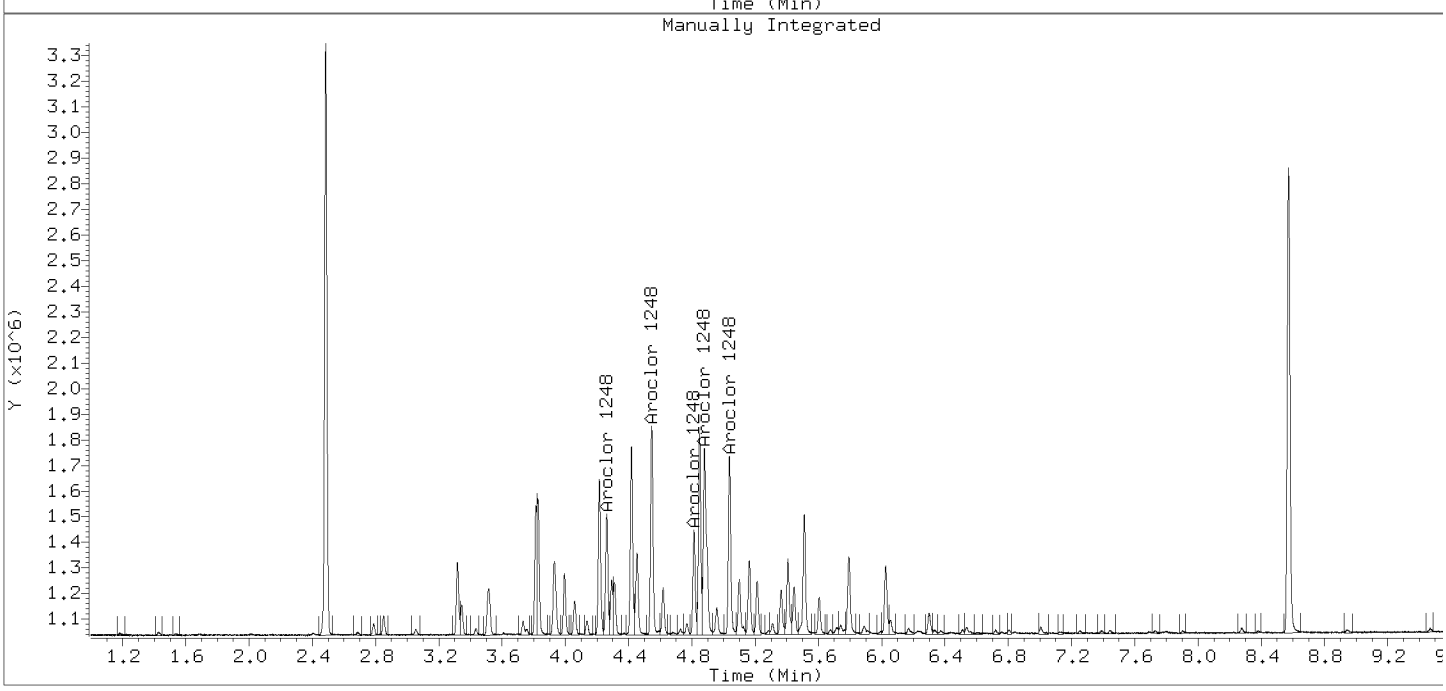
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

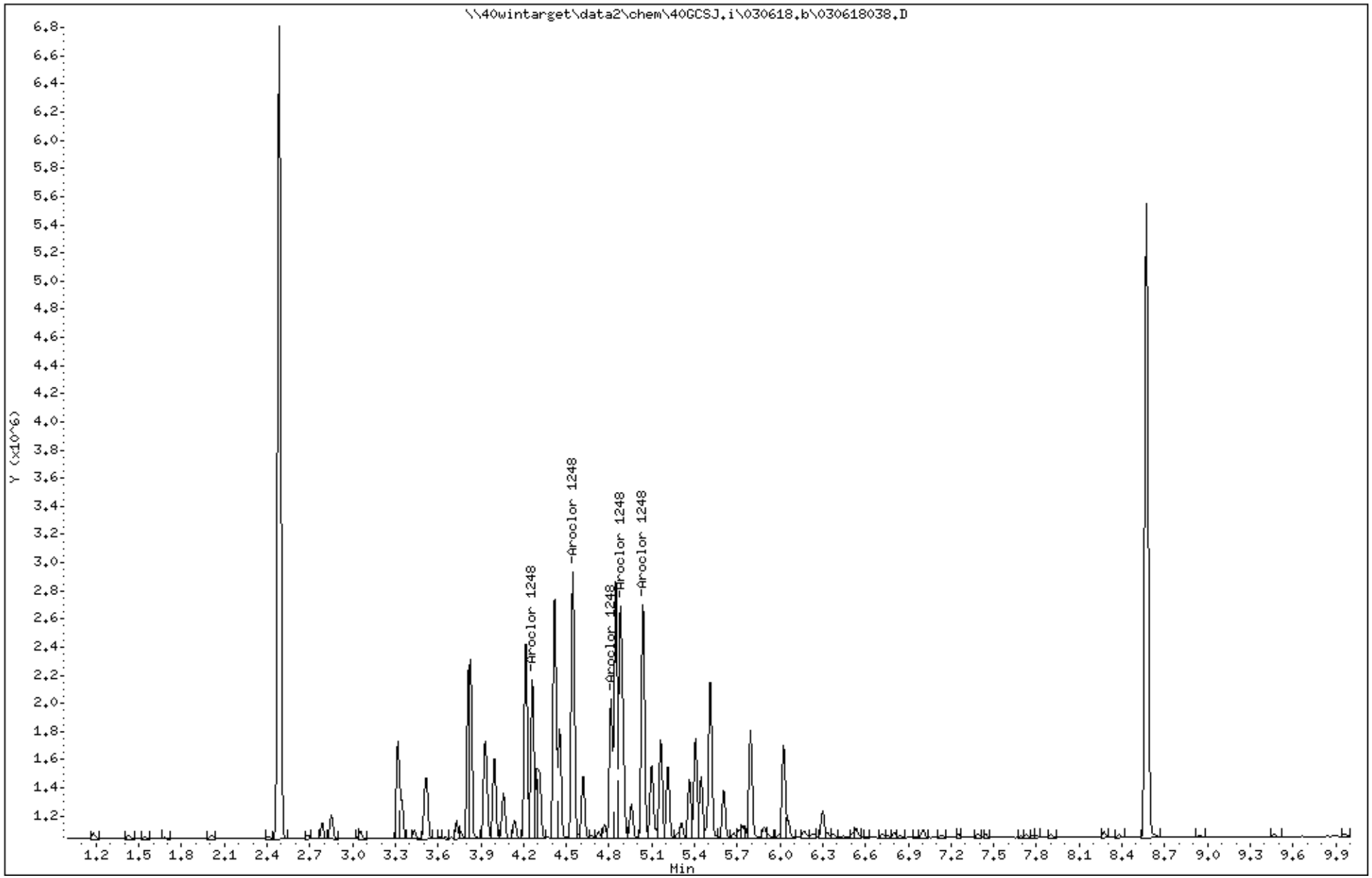
M - Compound response manually integrated.

Review Codes Legend

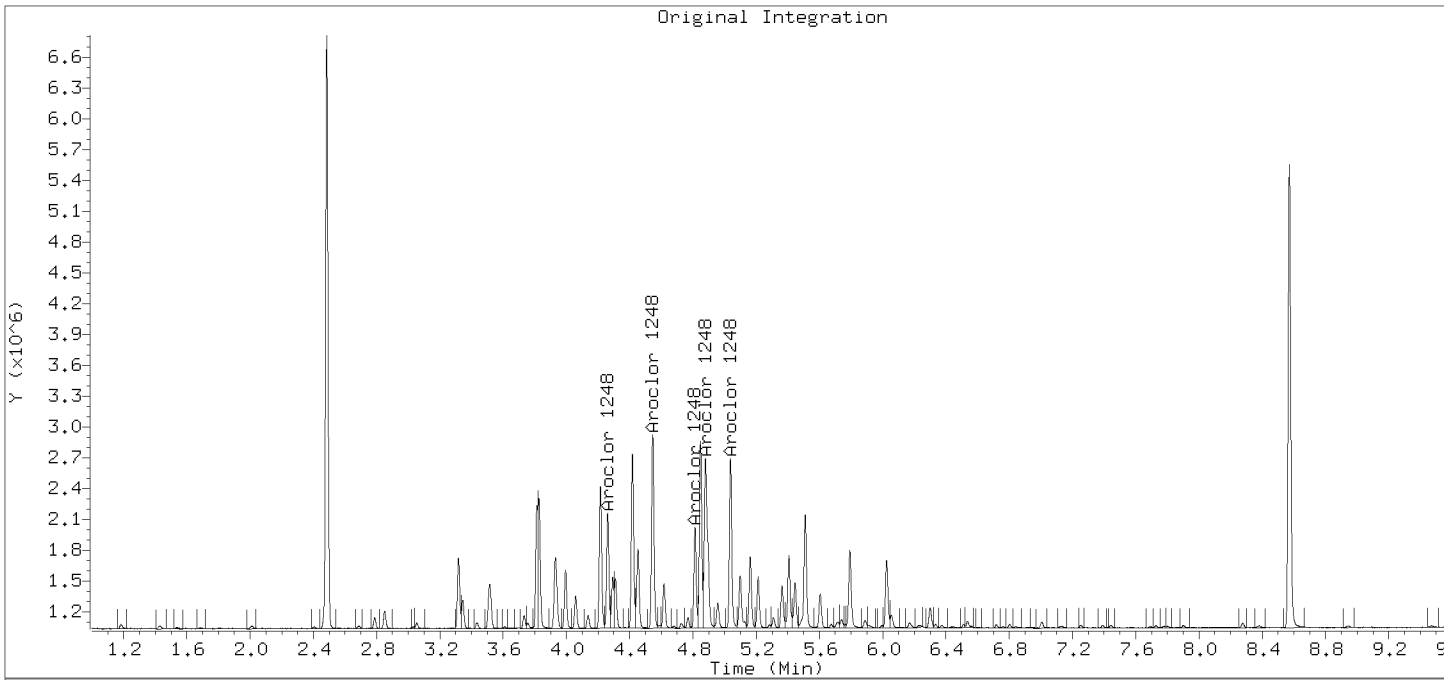
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

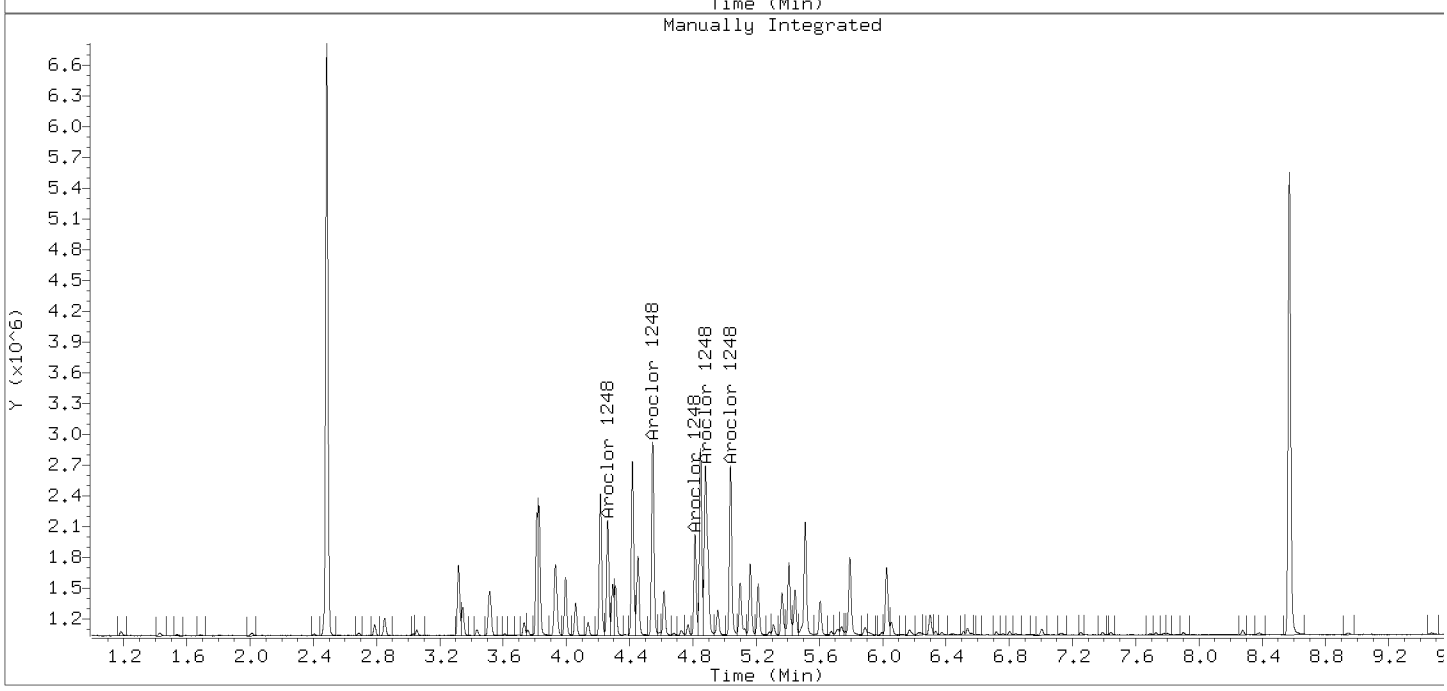
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:09

Client ID: 1248-CAL4D

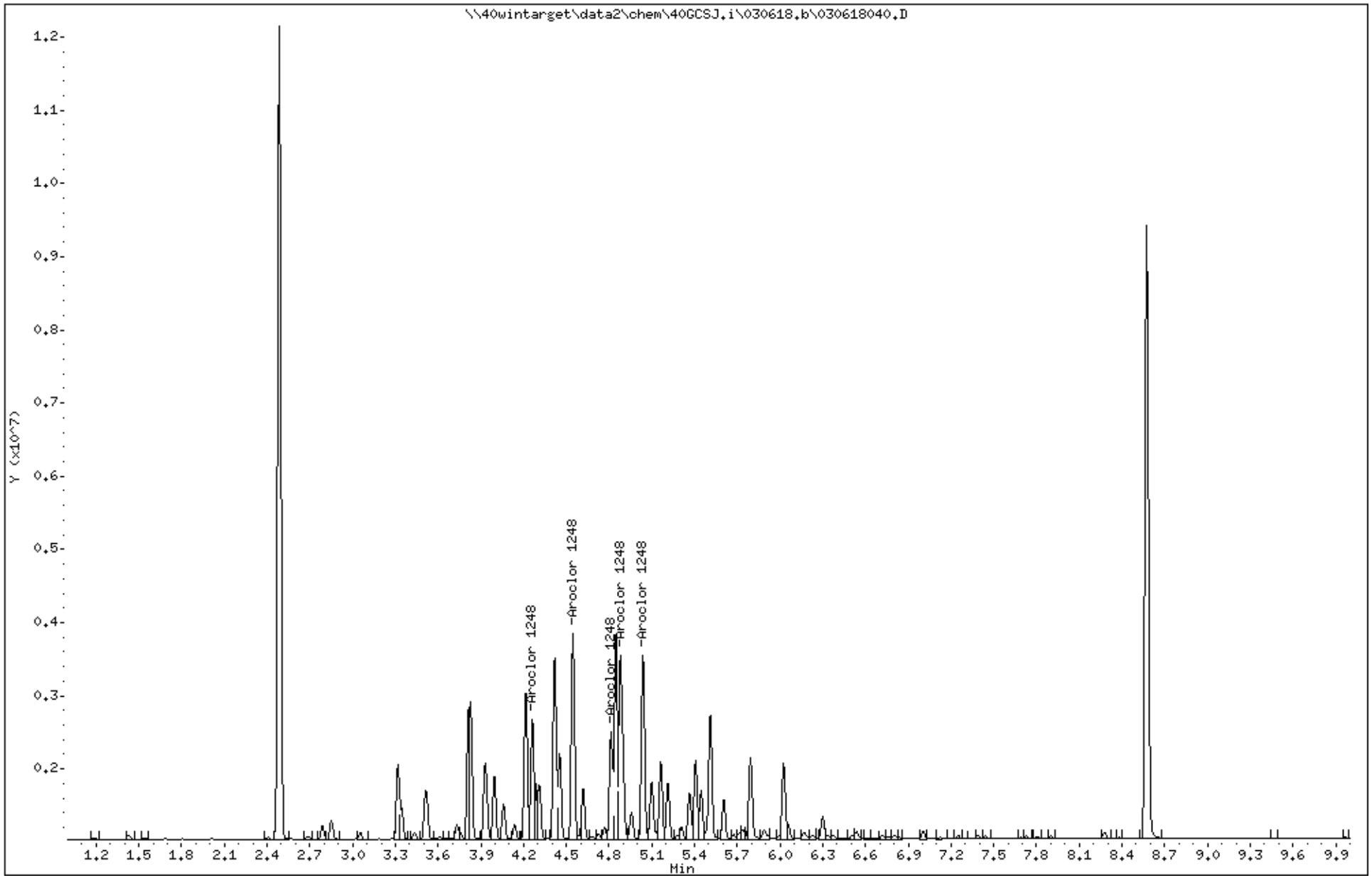
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

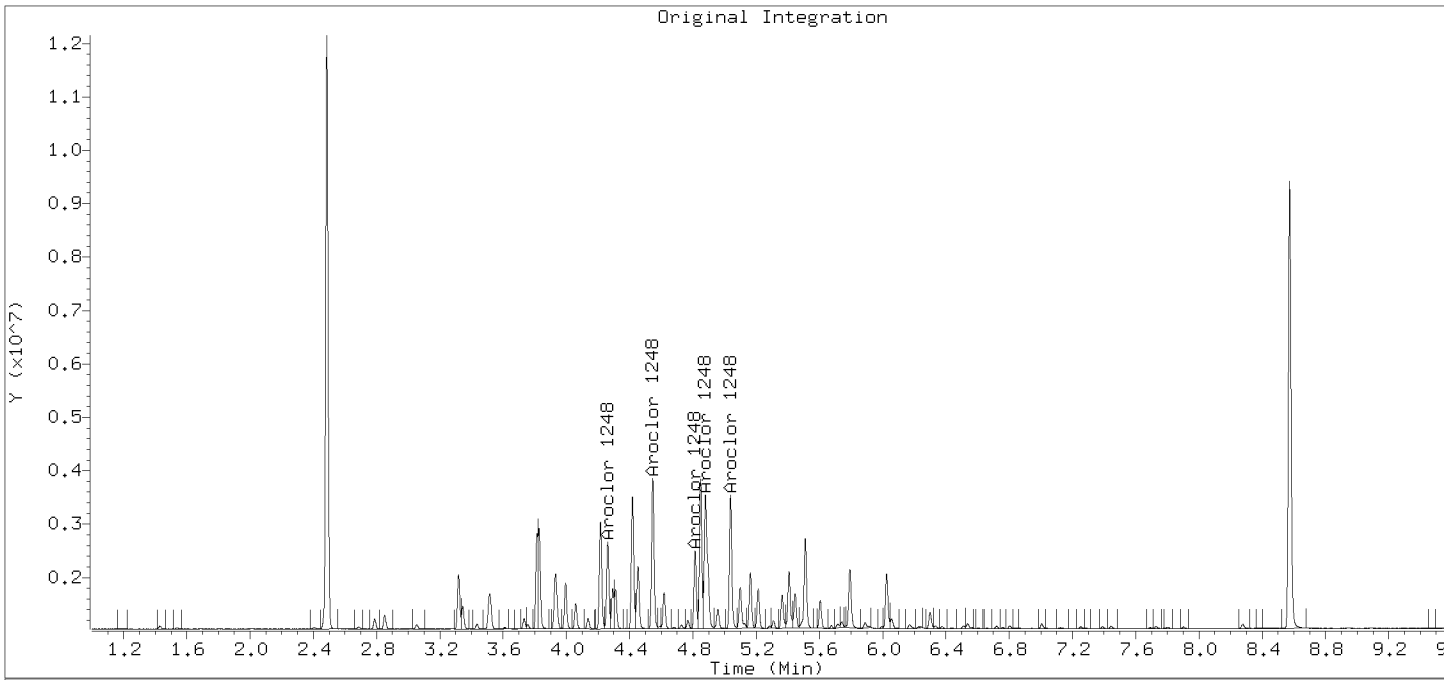
Operator: BLM

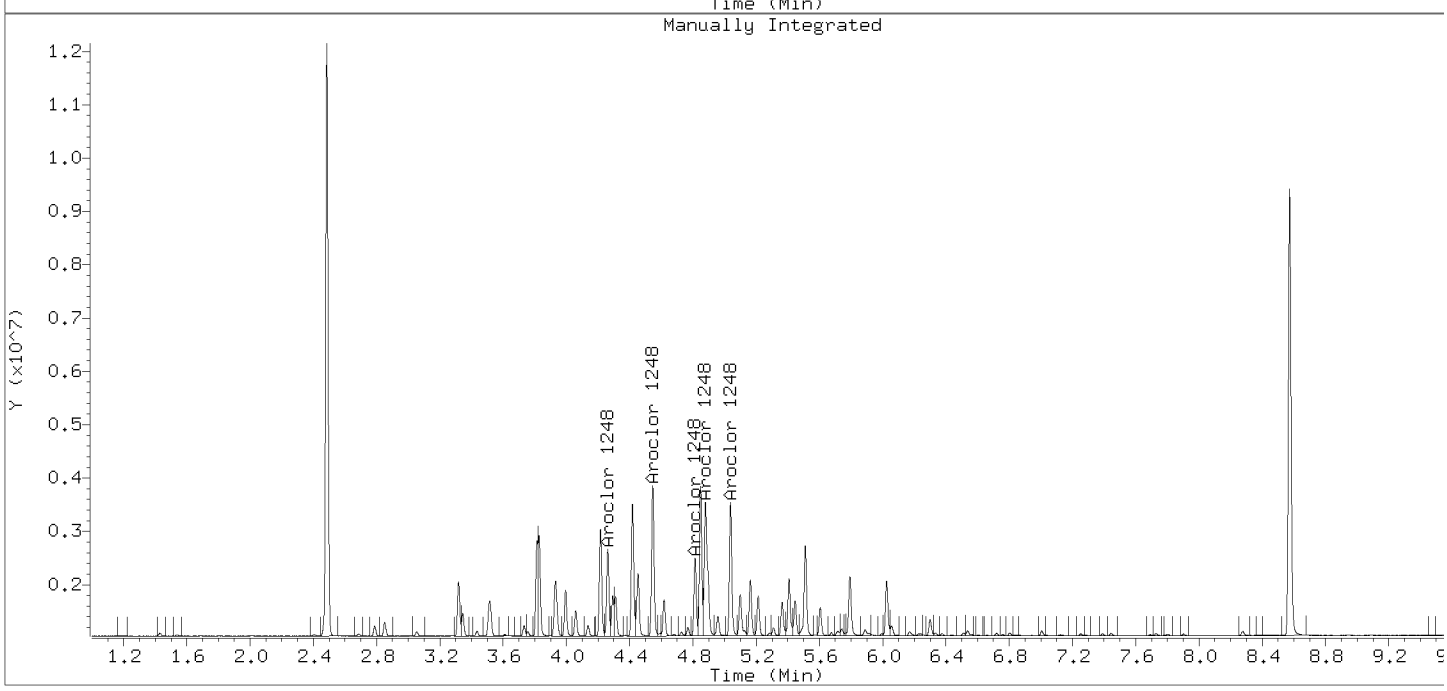
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:25

Client ID: 1248-CAL5D

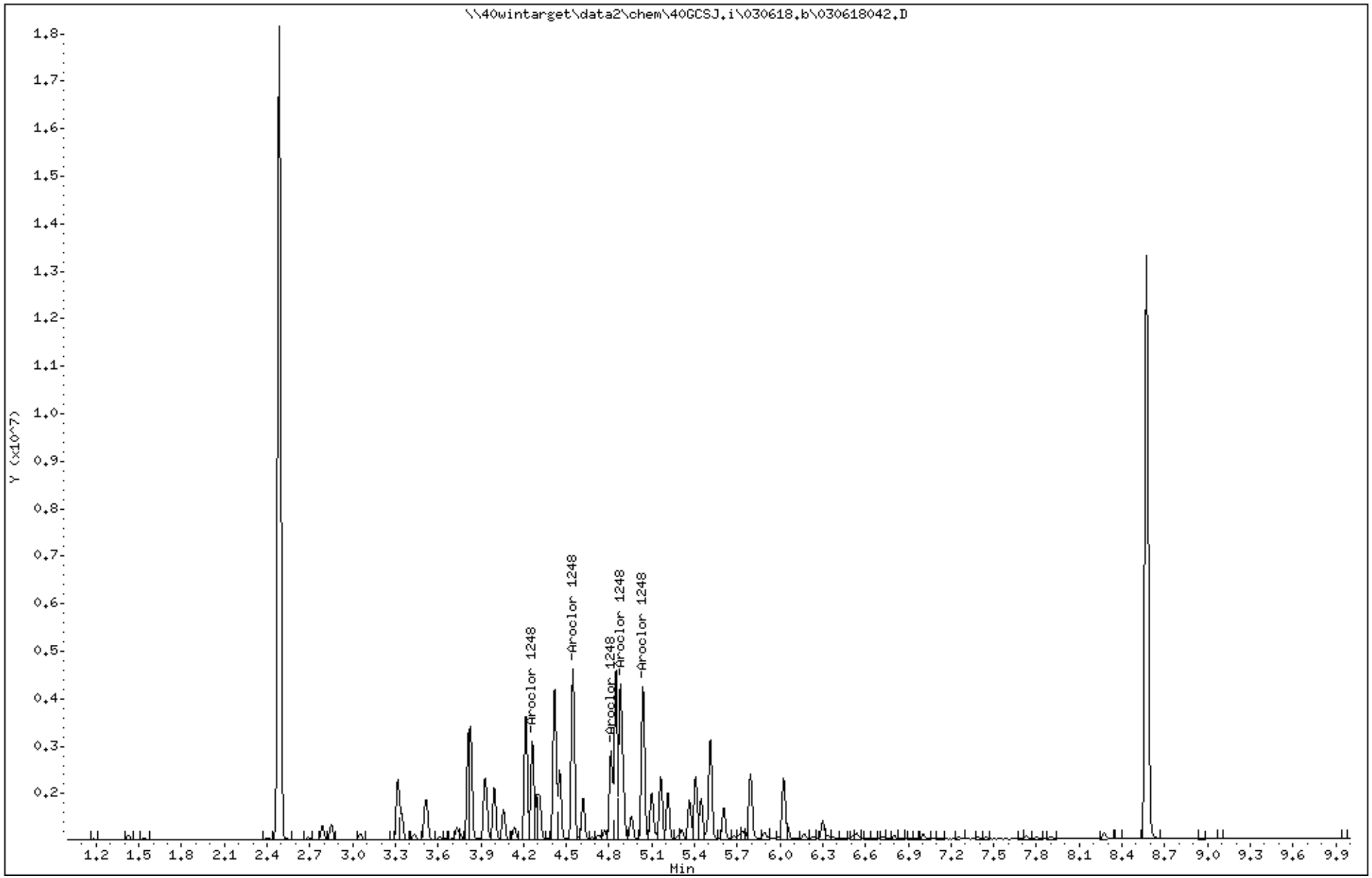
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

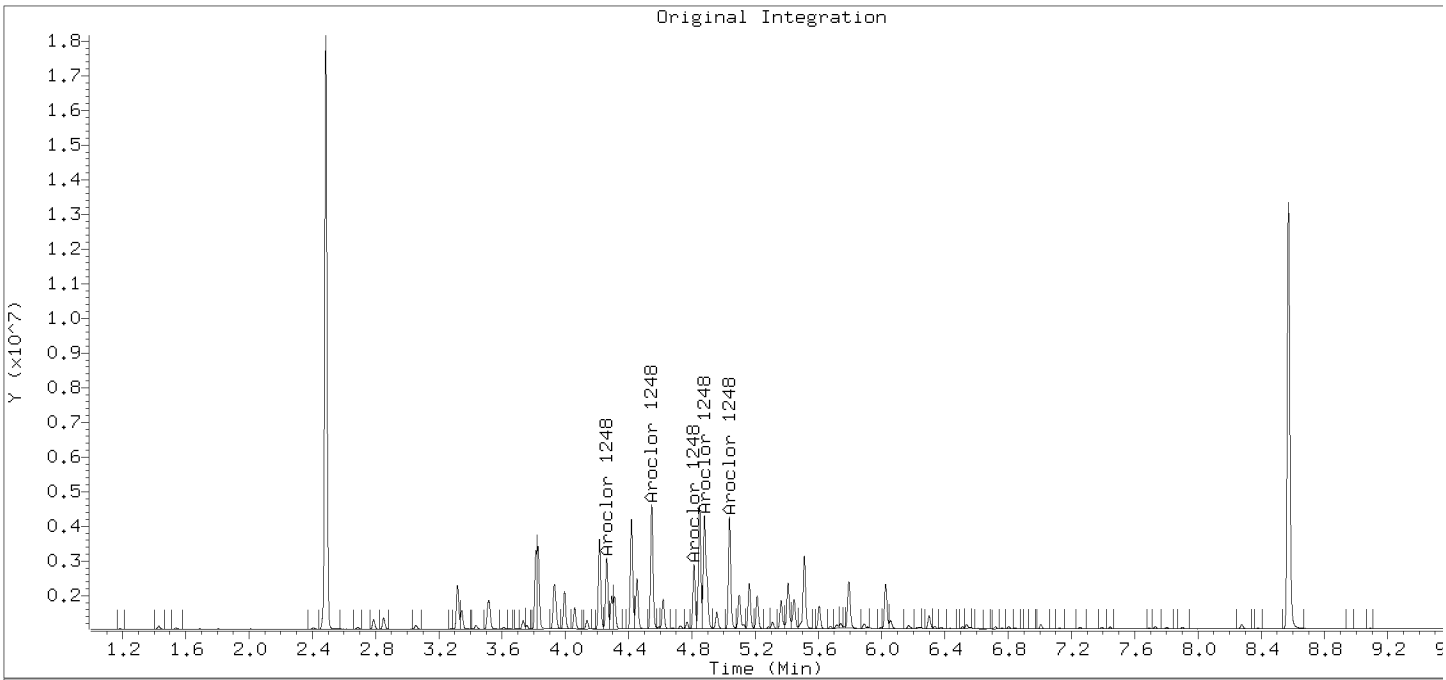
Operator: BLM

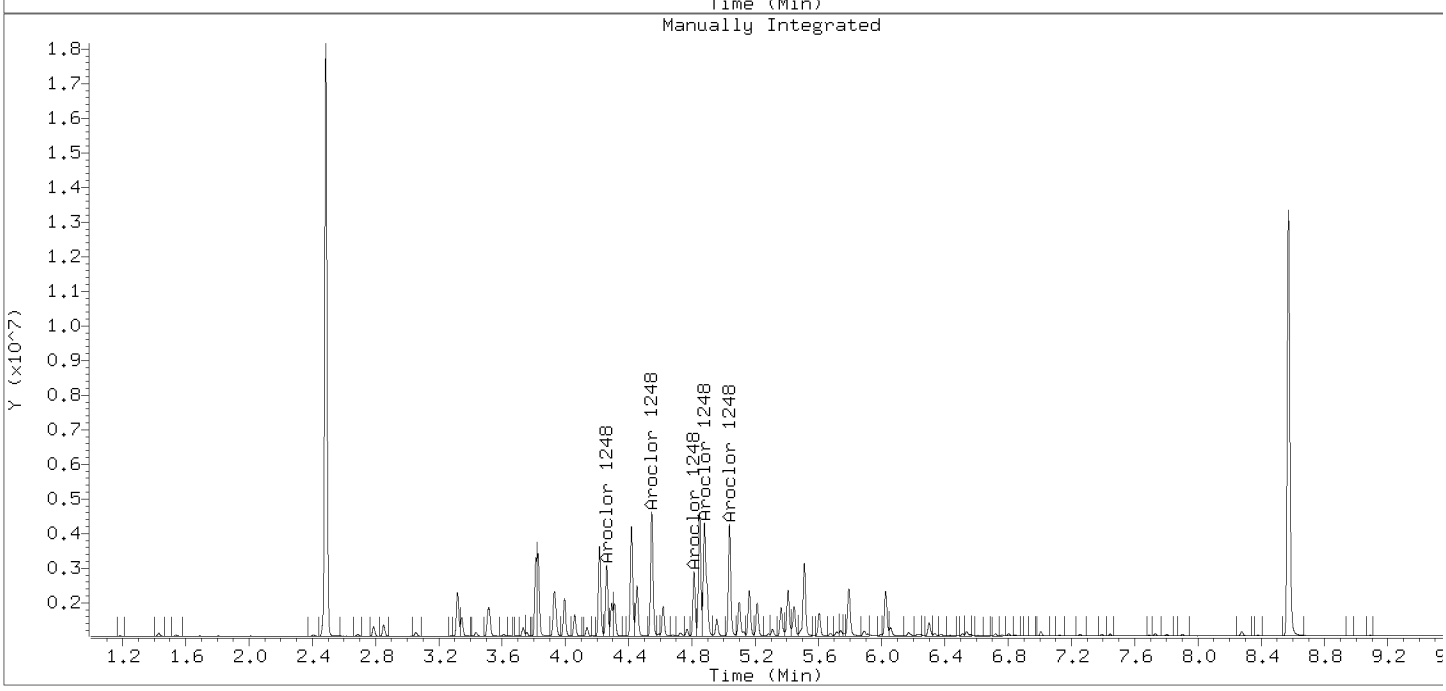
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.163	5.162	0.001	578337	0.10000	0.11	0.00- 20.00	100.00(M)	BA
5.408	5.408	0.000	461675	0.10000	0.11	0.00- 20.00	79.83	BA
5.510	5.510	0.000	843524	0.10000	0.11	0.00- 20.00	145.85	BA
6.026	6.027	-0.001	514088	0.10000	0.10	0.00- 20.00	88.89	BA
6.299	6.299	0.000	701502	0.10000	0.11	0.00- 20.00	121.30	BA
Average of Peak Amounts =					0.10800			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D

Date : 06-MAR-2018 16:57

Client ID: 1254-CAL1C

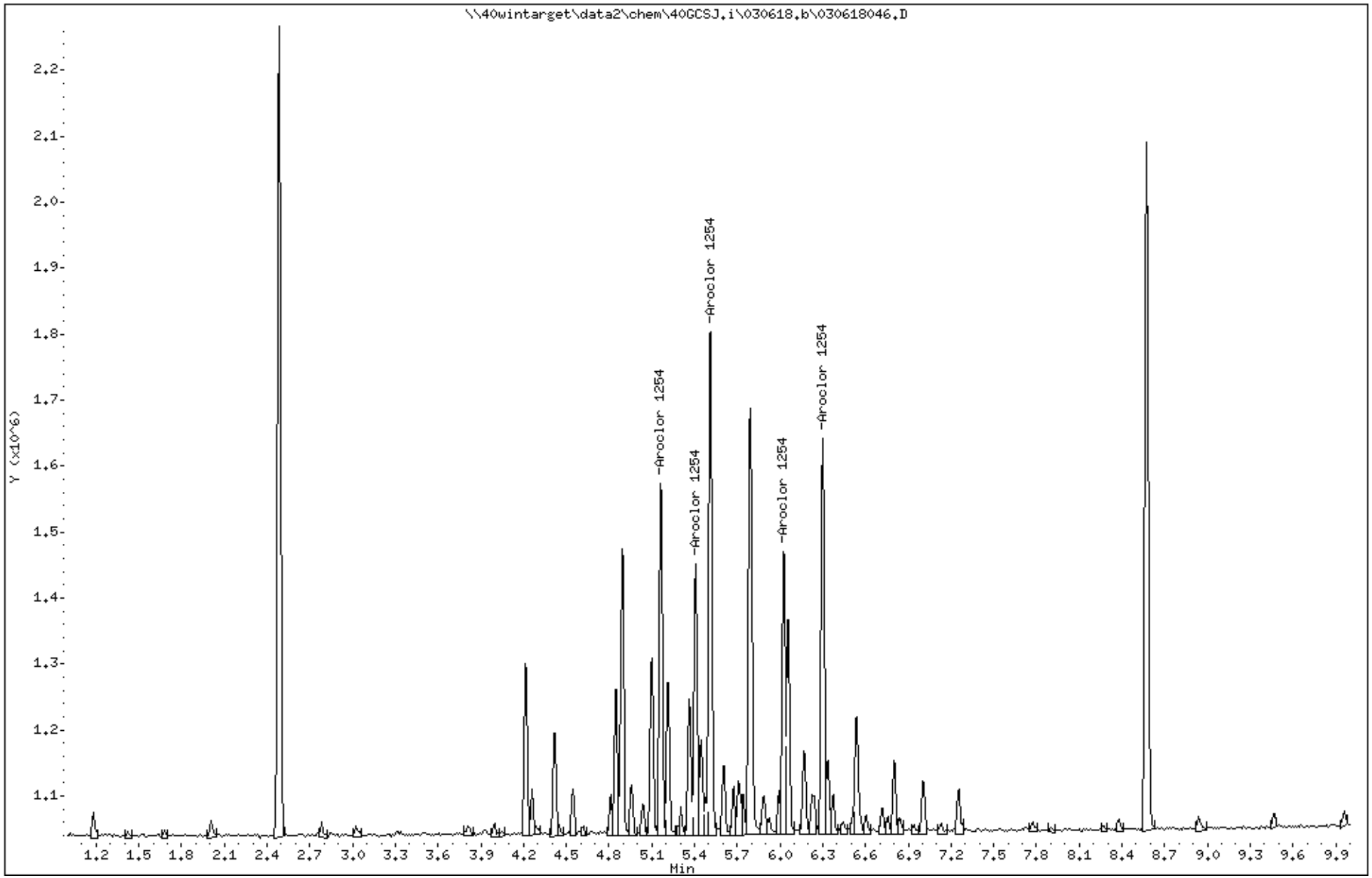
Instrument: 40GCSJ.i

Sample Info: 1254-CAL1C, 188135:1

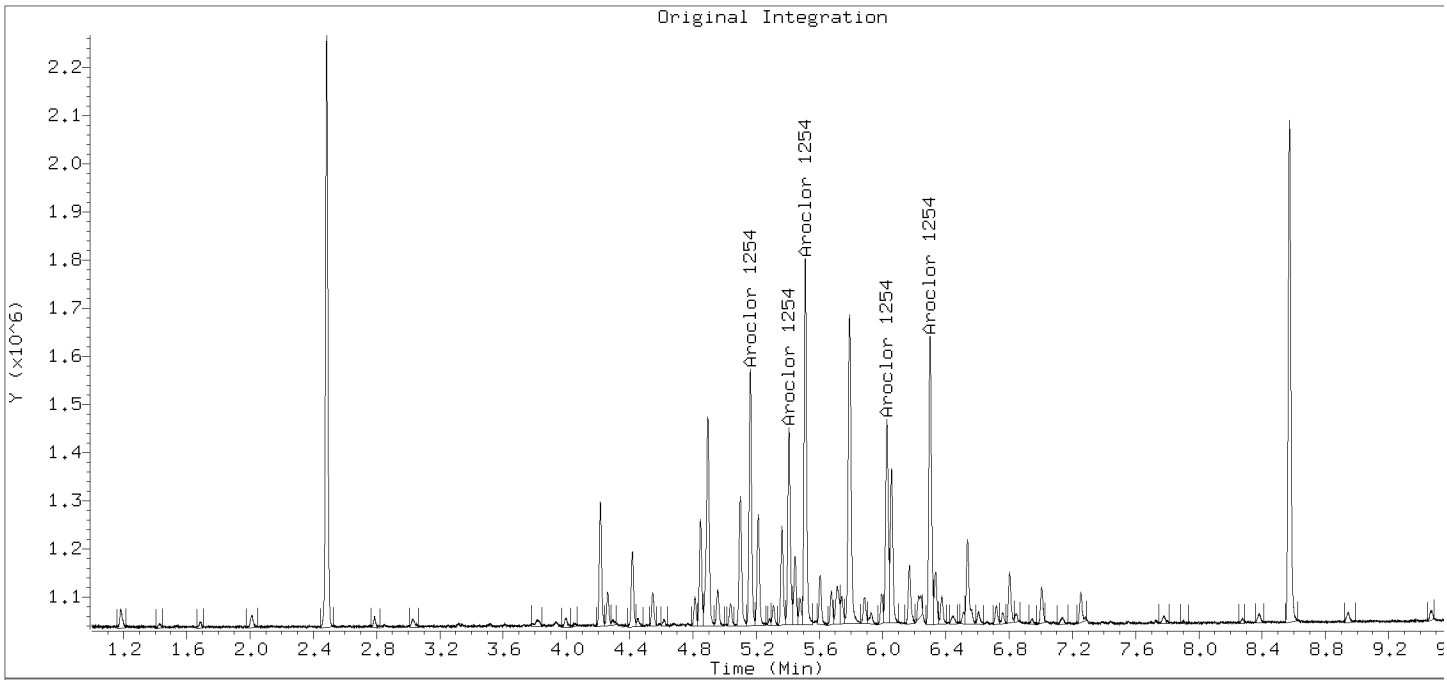
Operator: BLM

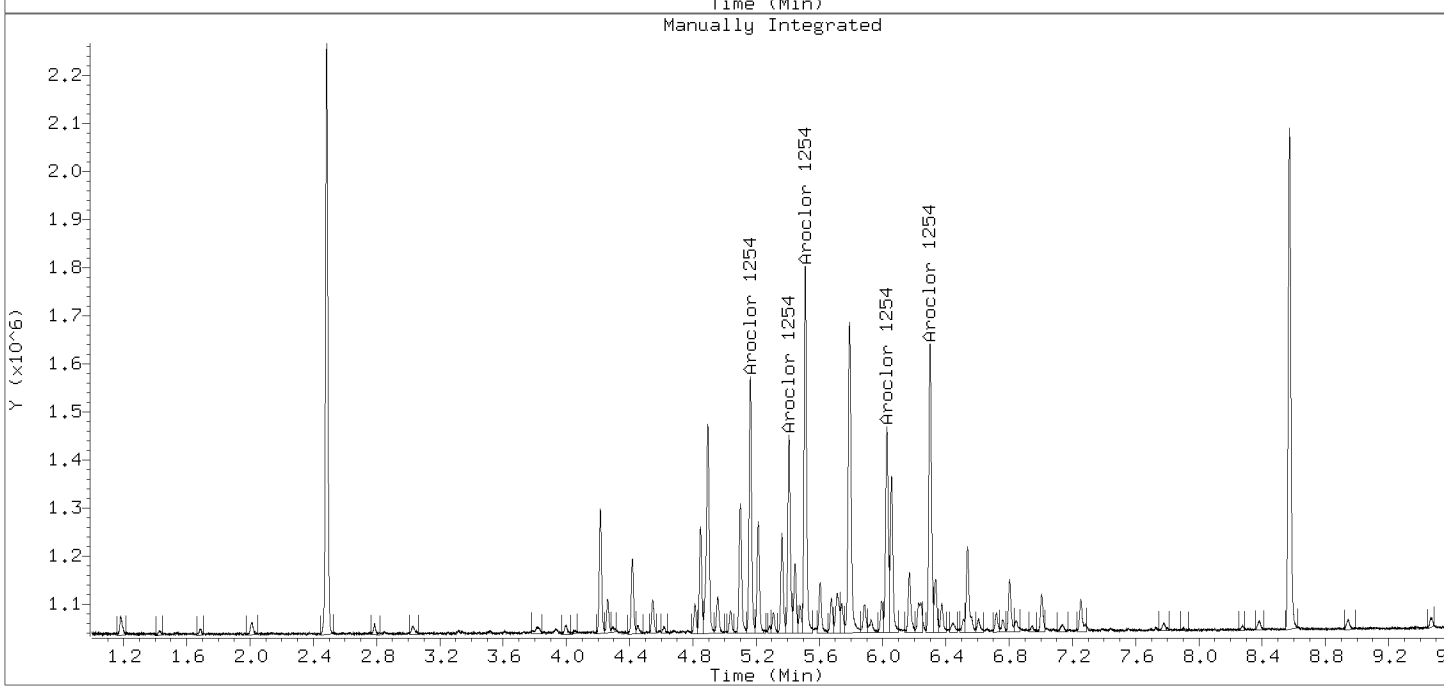
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Lab Smp Id: 1254-CAL2C Client Smp ID: 1254-CAL2C
Inj Date : 06-MAR-2018 17:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:13 Cal File: 030618048.D
Als bottle: 25 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.180	14785	11446	0.774	0.06		
1.428	22932	16453	0.717	0.10		
2.008	13252	7547	0.570	0.05		
2.484	2443152	2335532	0.956	11.18		
2.785	38923	36879	0.947	0.17		
3.317	15688	15090	0.962	0.06		
3.816	33314	23152	0.695	0.14		
3.936	25391	18861	0.743	0.11		
3.991	19776	14851	0.751	0.08		
4.057	14294	10125	0.708	0.06		
4.215	518990	504810	0.973	2.30		
4.262	130759	134614	1.029	0.57		
4.417	318089	306882	0.965	1.40		
4.453	36792	31401	0.853	0.16		
4.546	146634	140842	0.961	0.64		
4.594	9667	9066	0.938	0.04		
4.619	30811	24715	0.802	0.13		
4.679	14300	9754	0.682	0.06		
4.812	124031	118773	0.958	0.54		
4.848	455414	441589	0.970	2.01		
4.894	1053205	858019	0.815	4.66		
4.957	173883	154163	0.887	0.77		
5.038	101462	94180	0.928	0.44		
5.100	607083	520373	0.857	2.69		
5.163	1130516	1047365	0.926	5.01	7 Aroclor 1254	BA
5.213	500908	455276	0.909	2.22		
5.257	17625	16702	0.948	0.07		
5.285	29337	27985	0.954	0.13		
5.309	96003	86176	0.898	0.42		
5.363	431219	406625	0.943	1.91		
5.407	916372	831698	0.908	4.06	7 Aroclor 1254	BA
5.447	306543	274508	0.895	1.35		
5.478	113703	114036	1.003	0.50		
5.510	1657392	1480187	0.893	7.34	7 Aroclor 1254	BA
5.579	19853	16482	0.830	0.08		
5.605	231410	203474	0.879	1.02		
5.675	151855	139702	0.920	0.67		

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Lab Smp Id: 1254-CAL2C Client Smp ID: 1254-CAL2C
Inj Date : 06-MAR-2018 17:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17498,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:13 Cal File: 030618048.D
Als bottle: 25 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1130515	0.20000	0.22	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	916371	0.20000	0.21	0.00- 20.00	81.06	BA
5.510	5.510	0.000	1657392	0.20000	0.21	0.00- 20.00	146.61	BA
6.026	6.027	-0.001	1030270	0.20000	0.21	0.00- 20.00	91.13	BA
6.299	6.299	0.000	1396394	0.20000	0.21	0.00- 20.00	123.52	BA
Average of Peak Amounts =					0.21200			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D

Date : 06-MAR-2018 17:13

Client ID: 1254-CAL2C

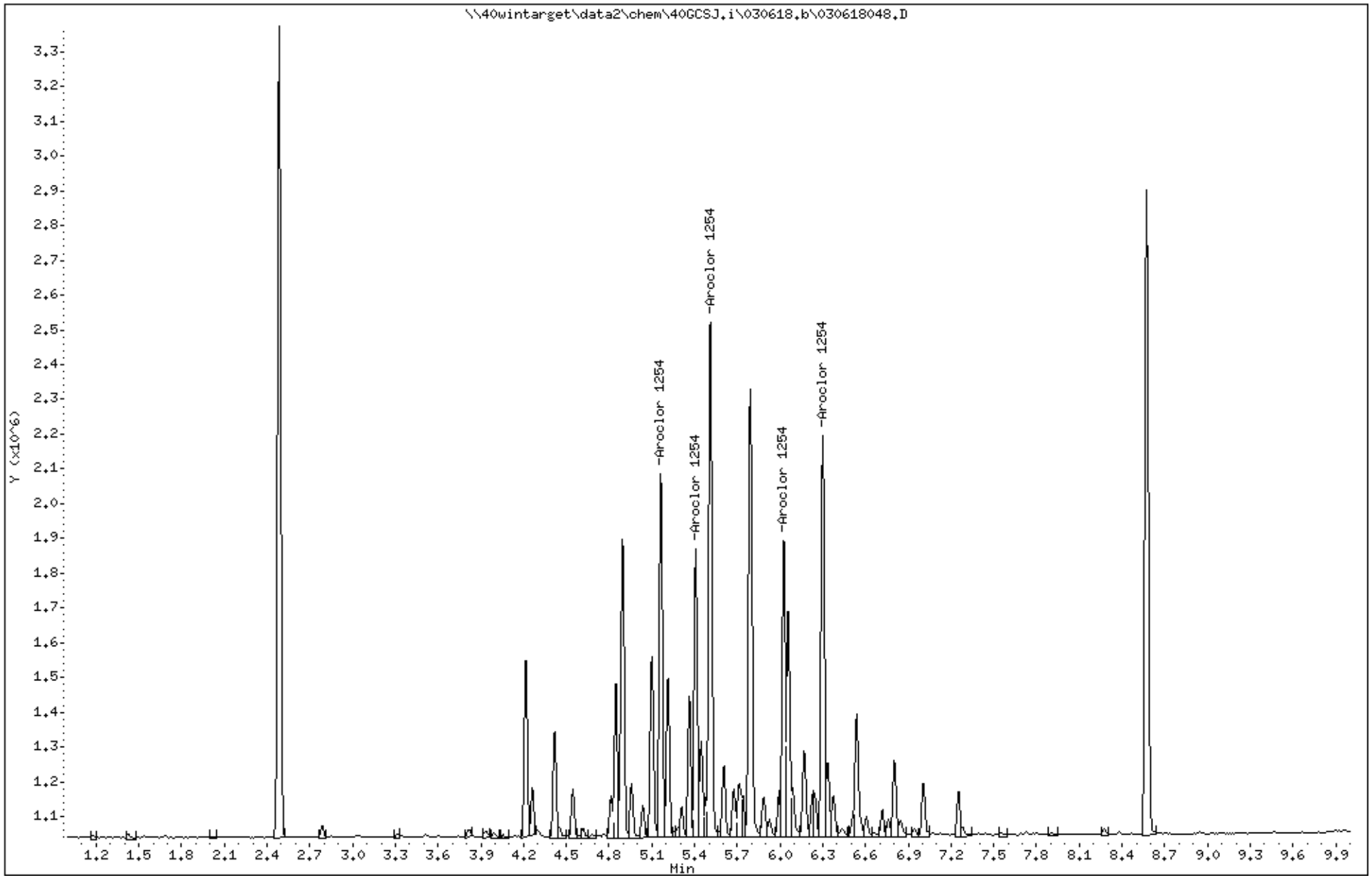
Instrument: 40GCSJ.i

Sample Info: 1254-CAL2C, 185553:1

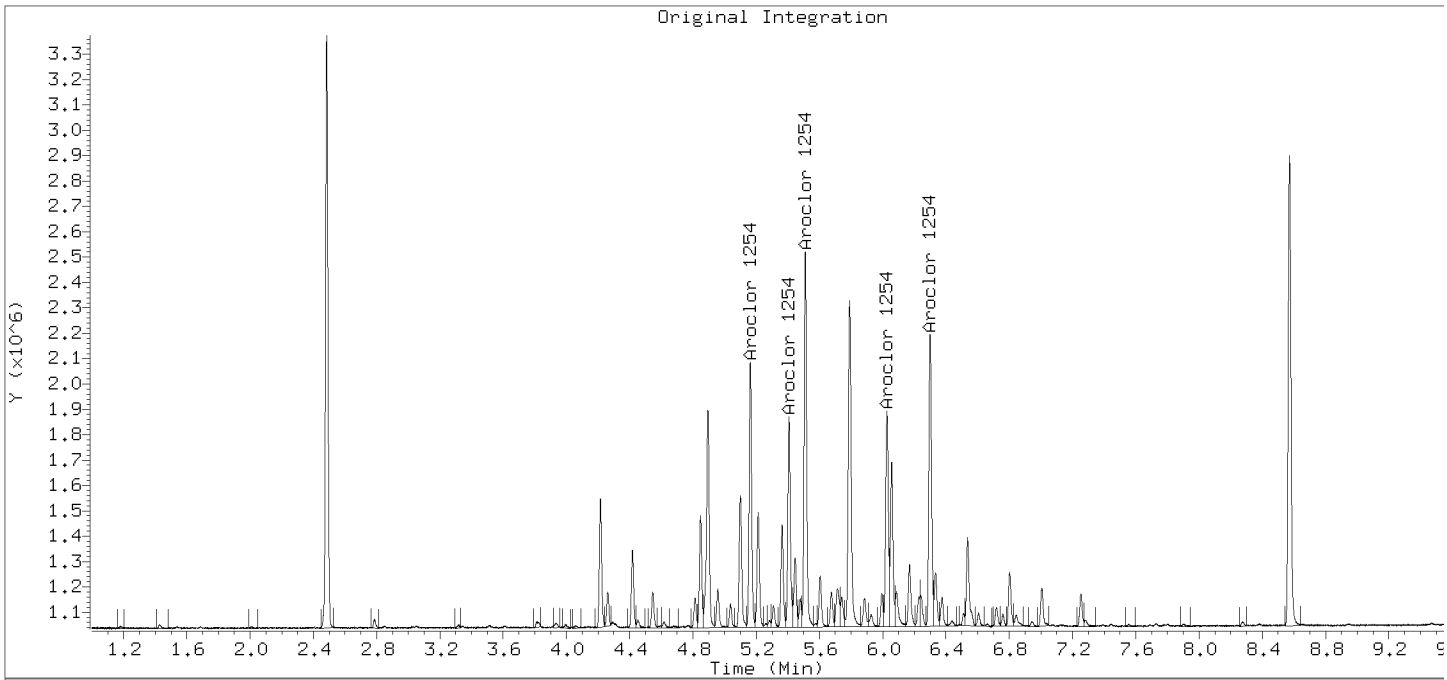
Operator: BLM

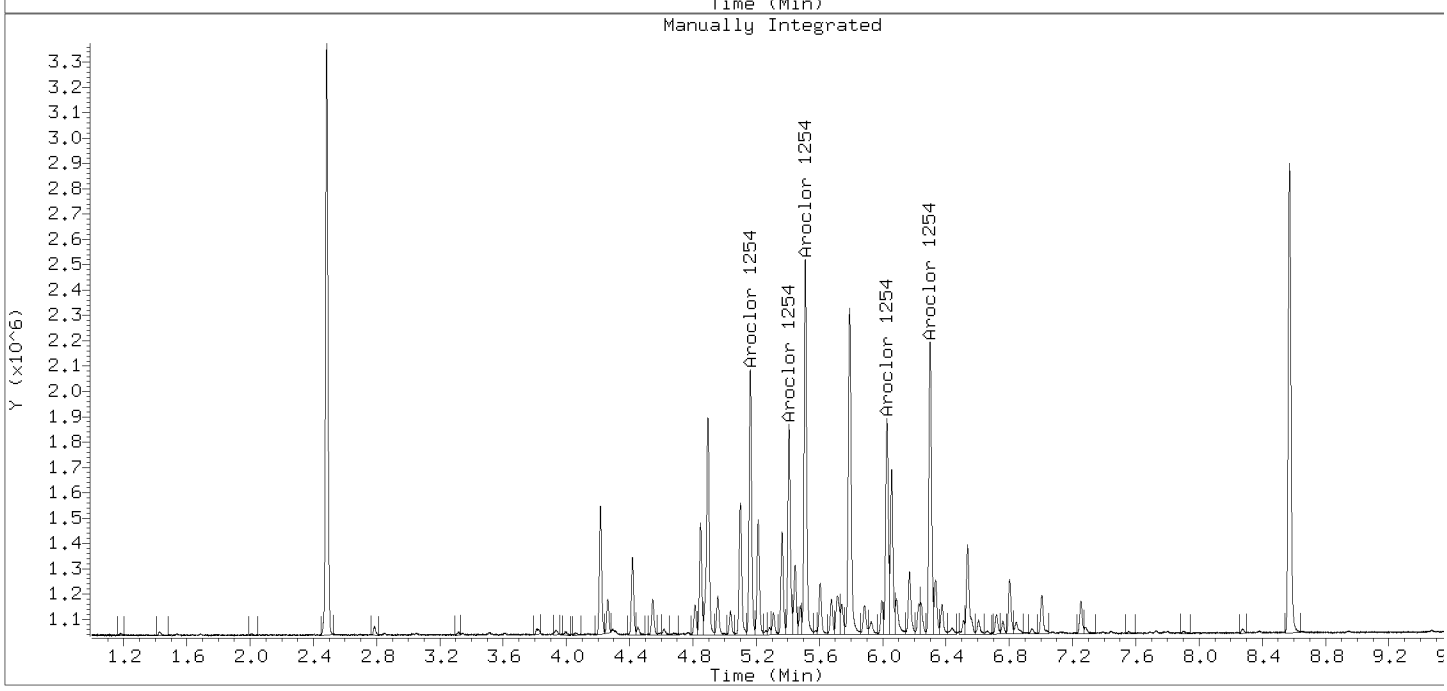
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:30

Client ID: 1254-CAL3C

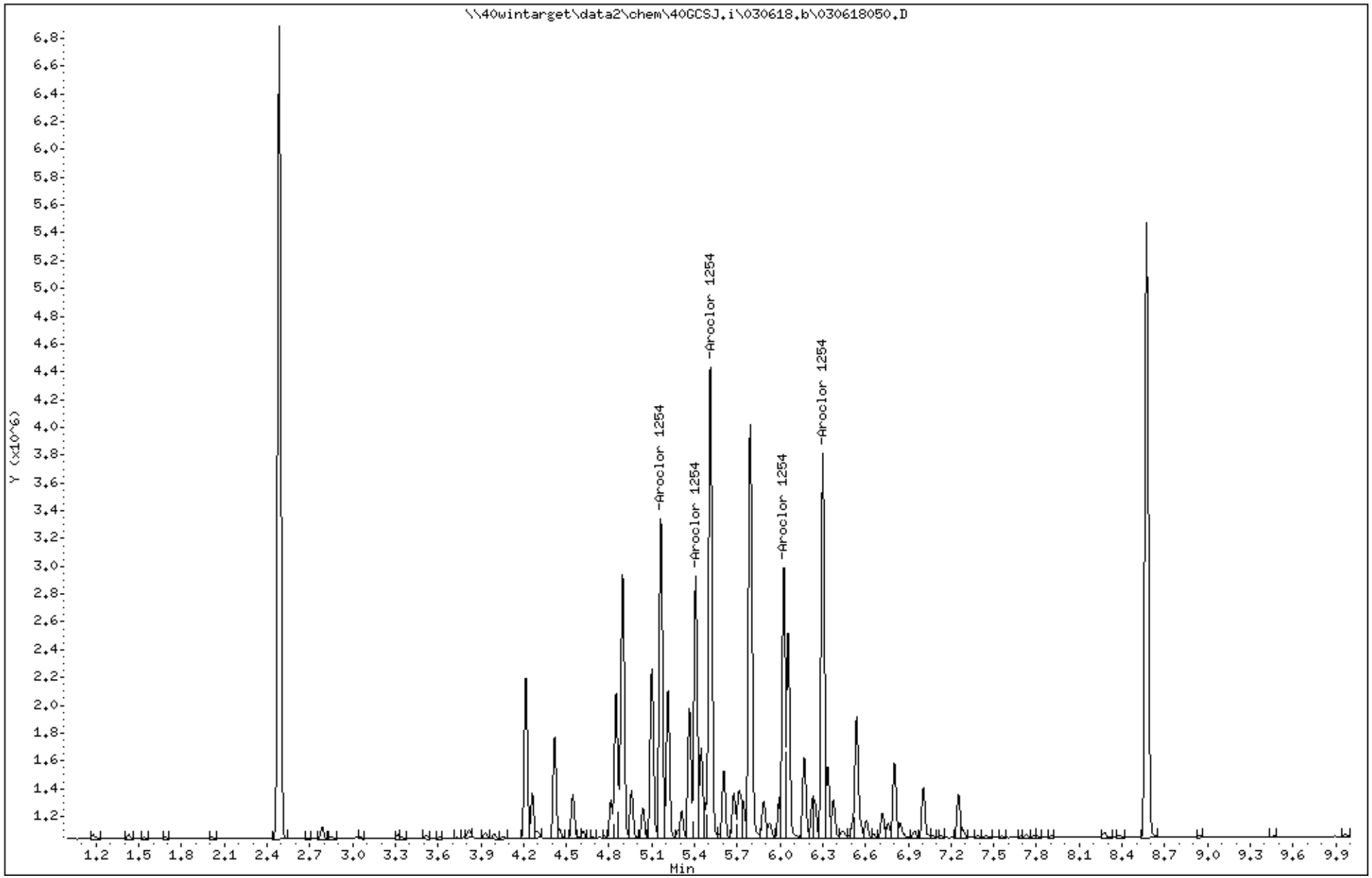
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

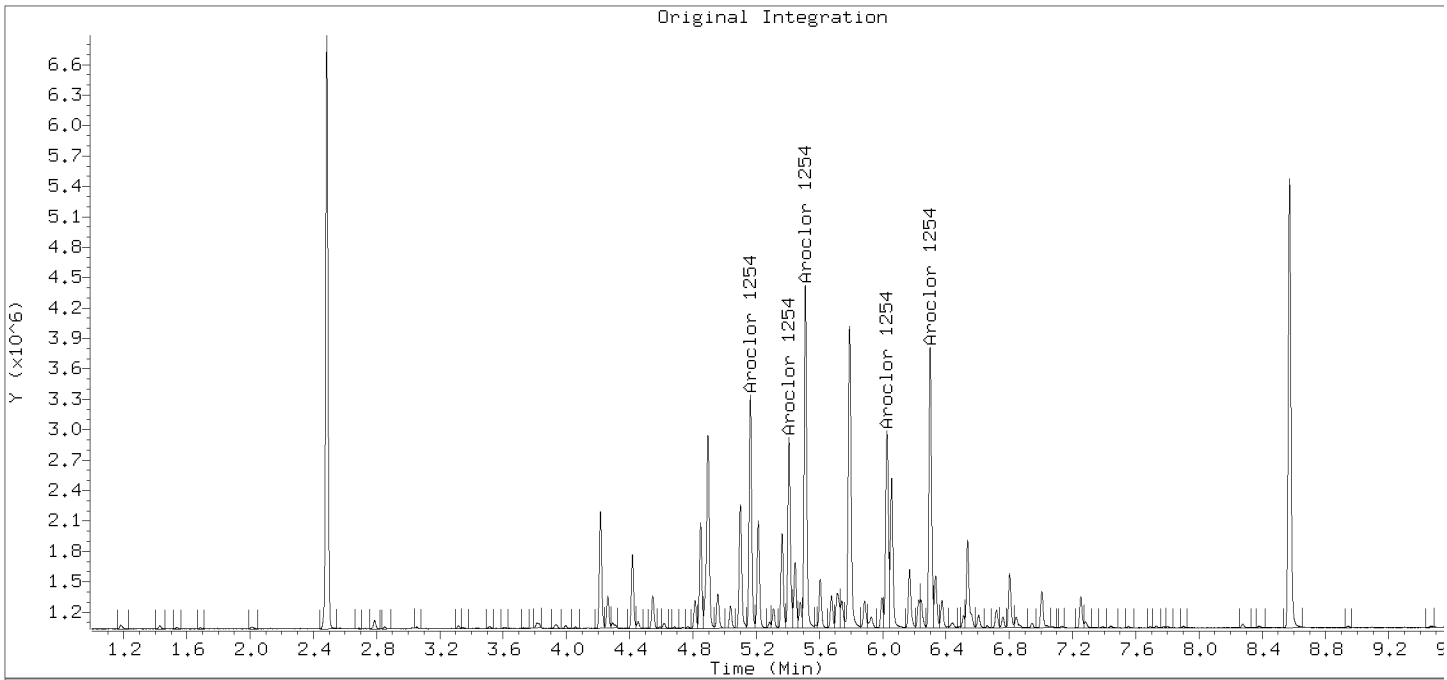
Operator: BLM

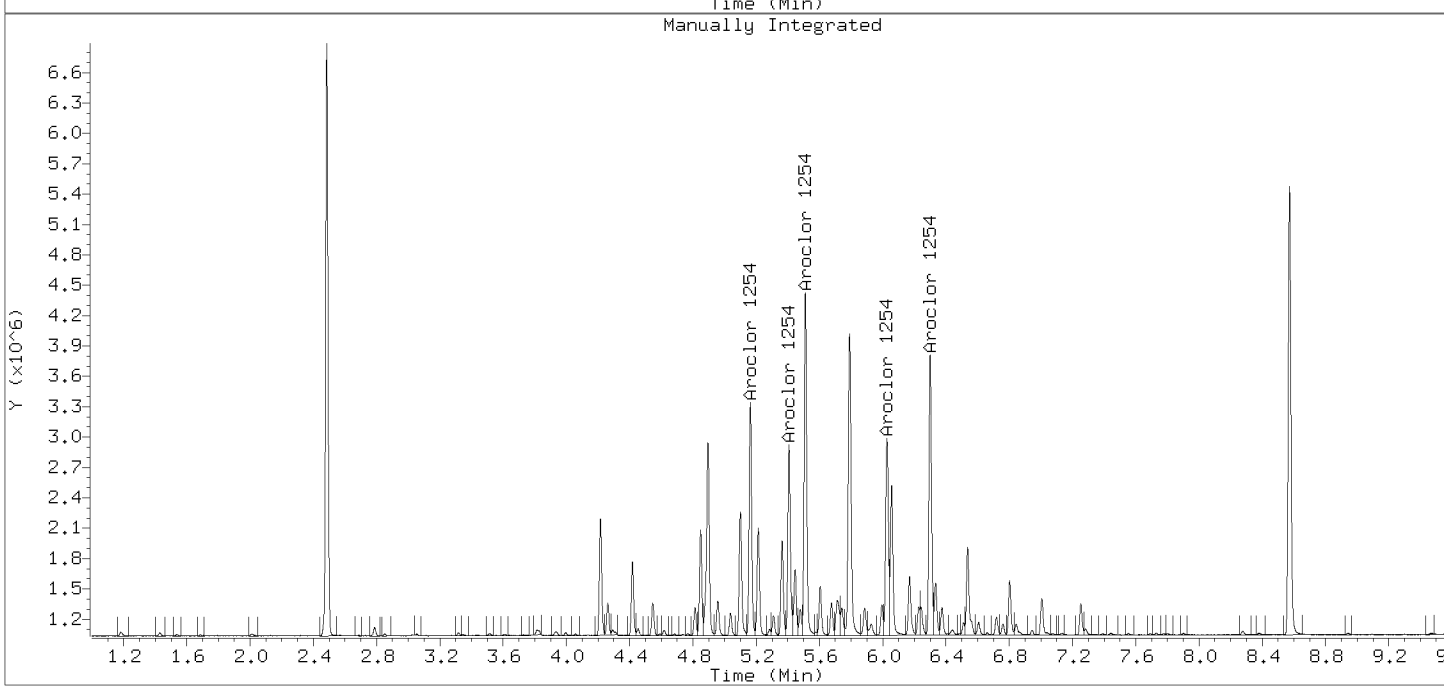
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

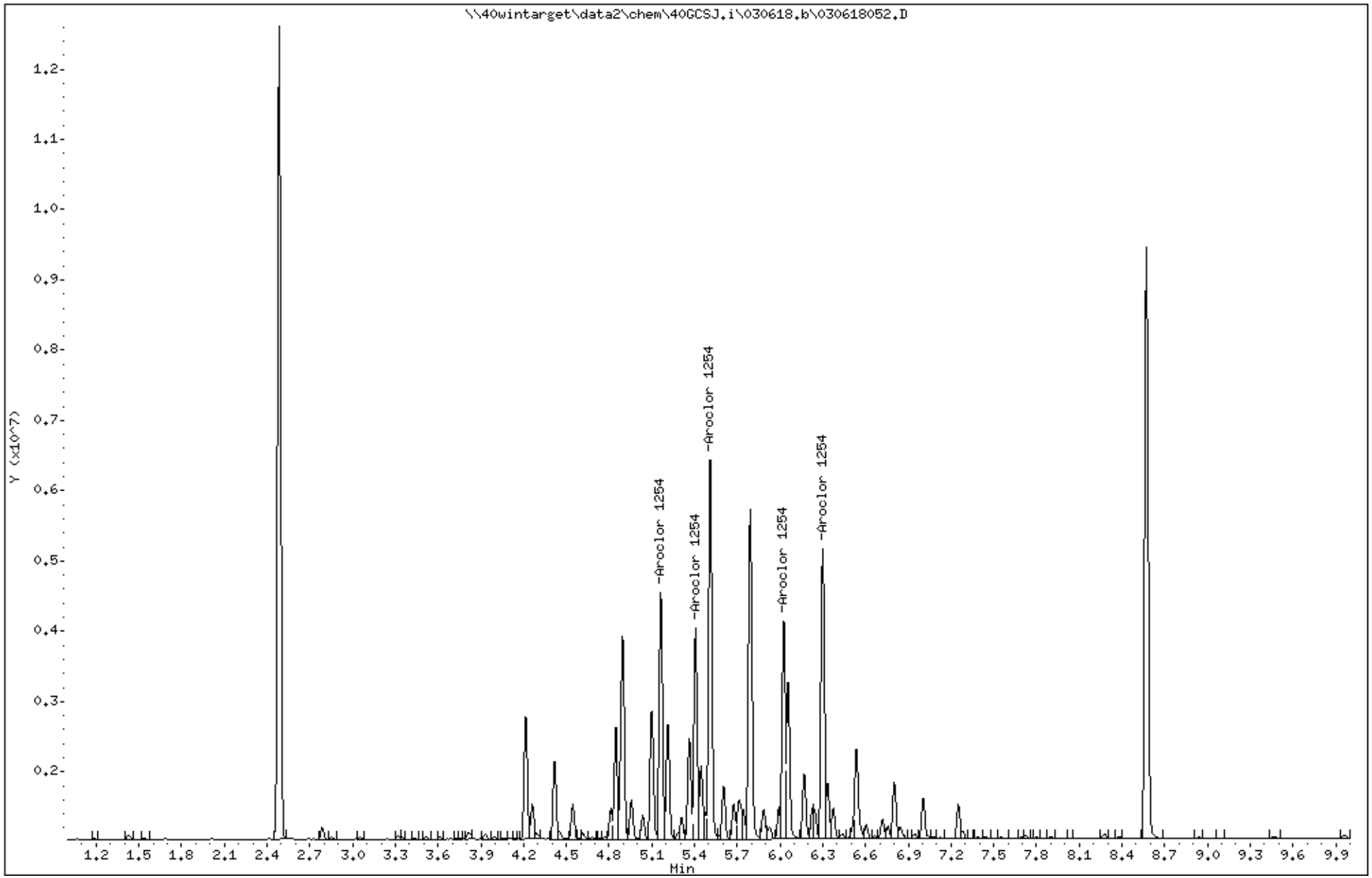
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Date : 06-MAR-2018 17:46
Client ID: 1254-CAL4C
Sample Info: 1254-CAL4C, 185555:1

Instrument: 40GCSJ.i

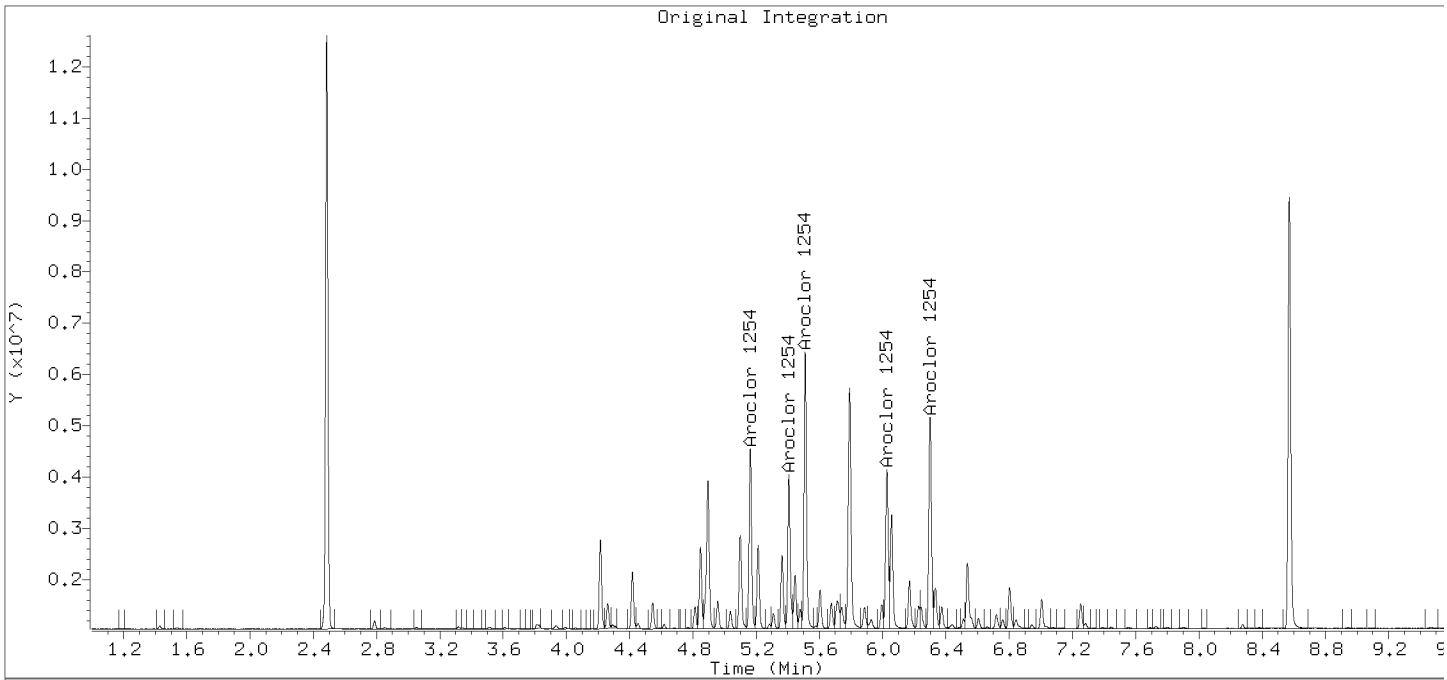
Operator: BLM

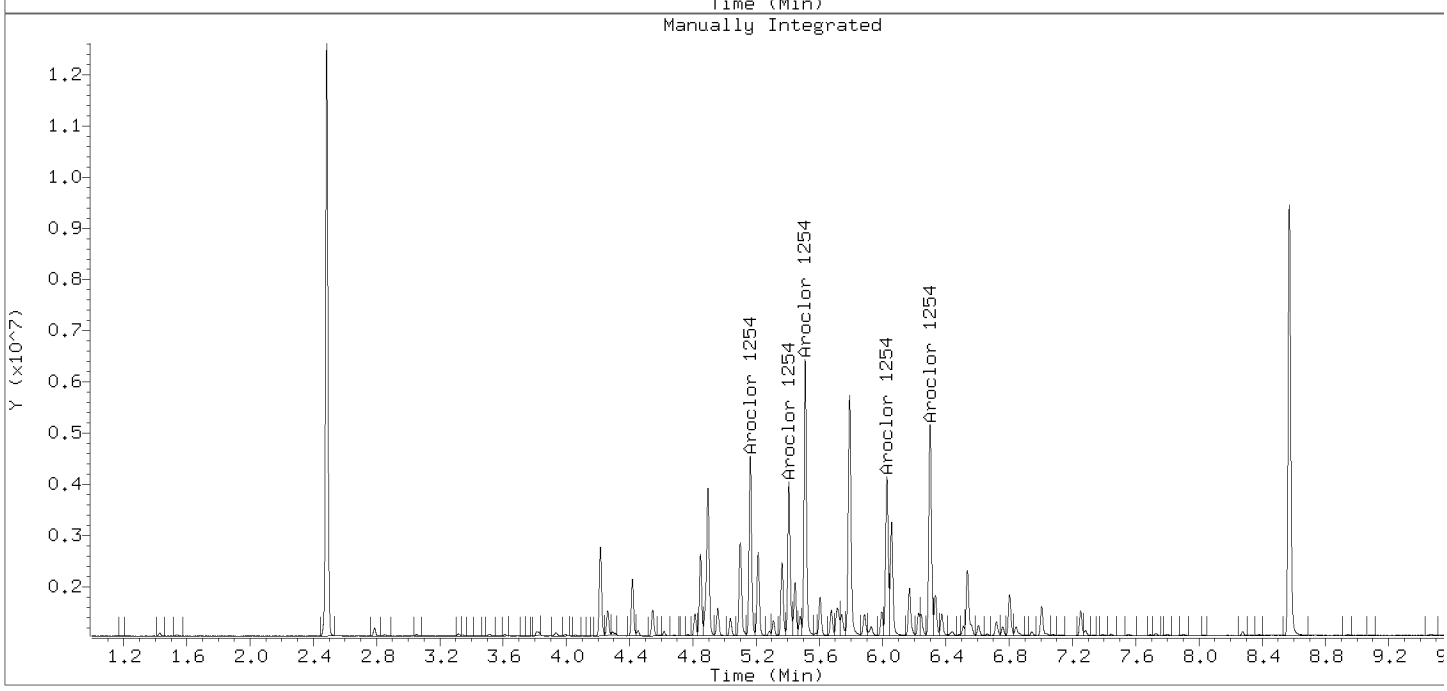
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

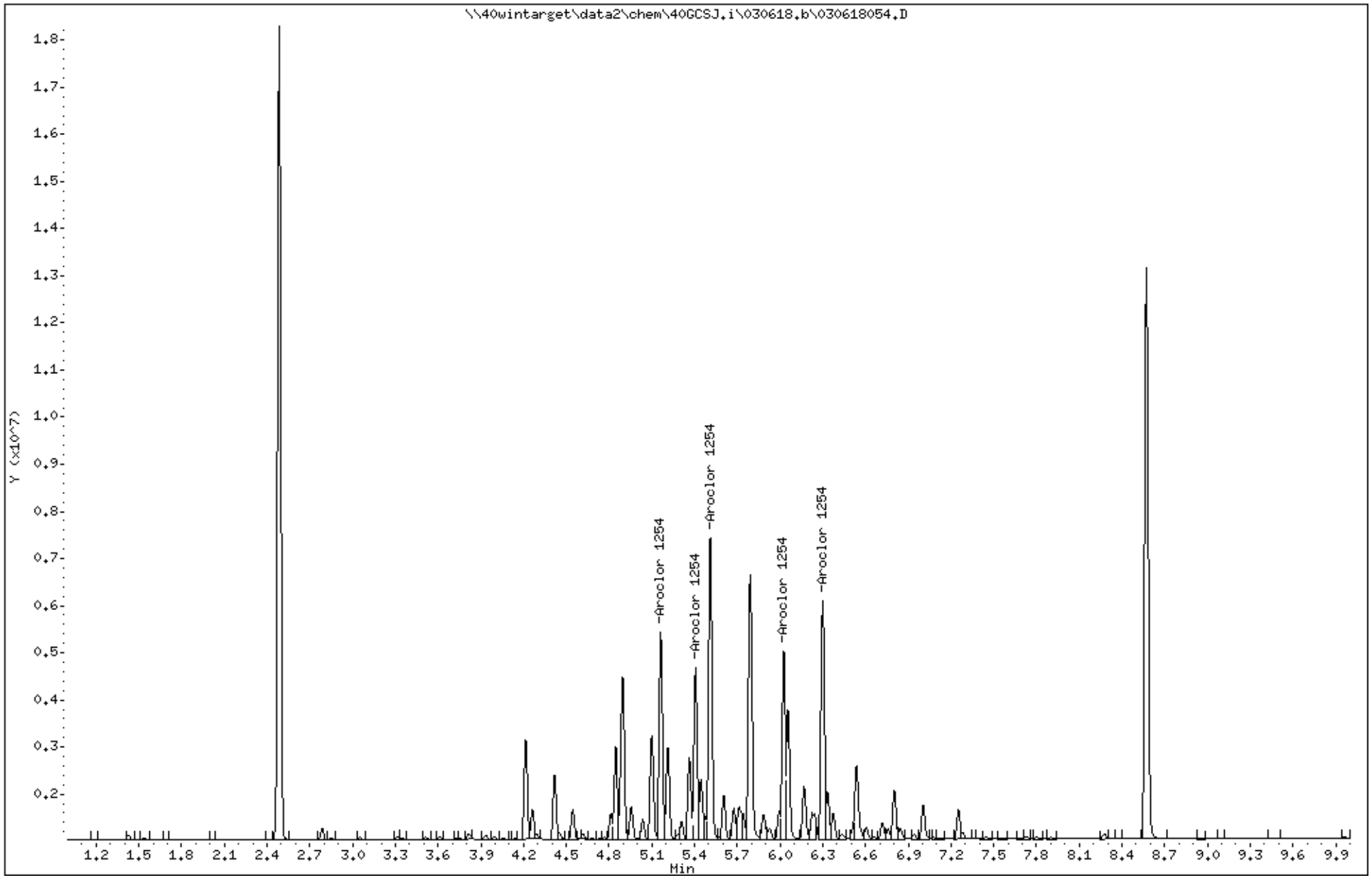
M - Compound response manually integrated.

Review Codes Legend

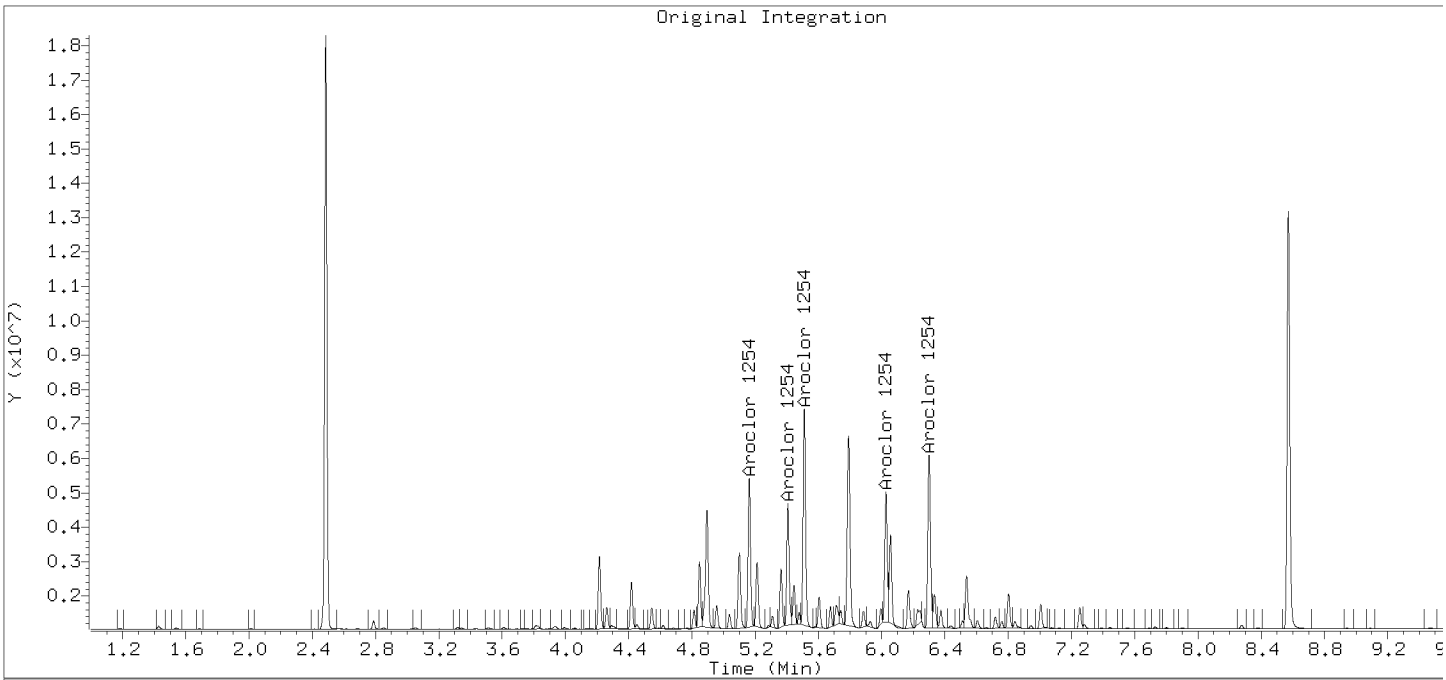
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

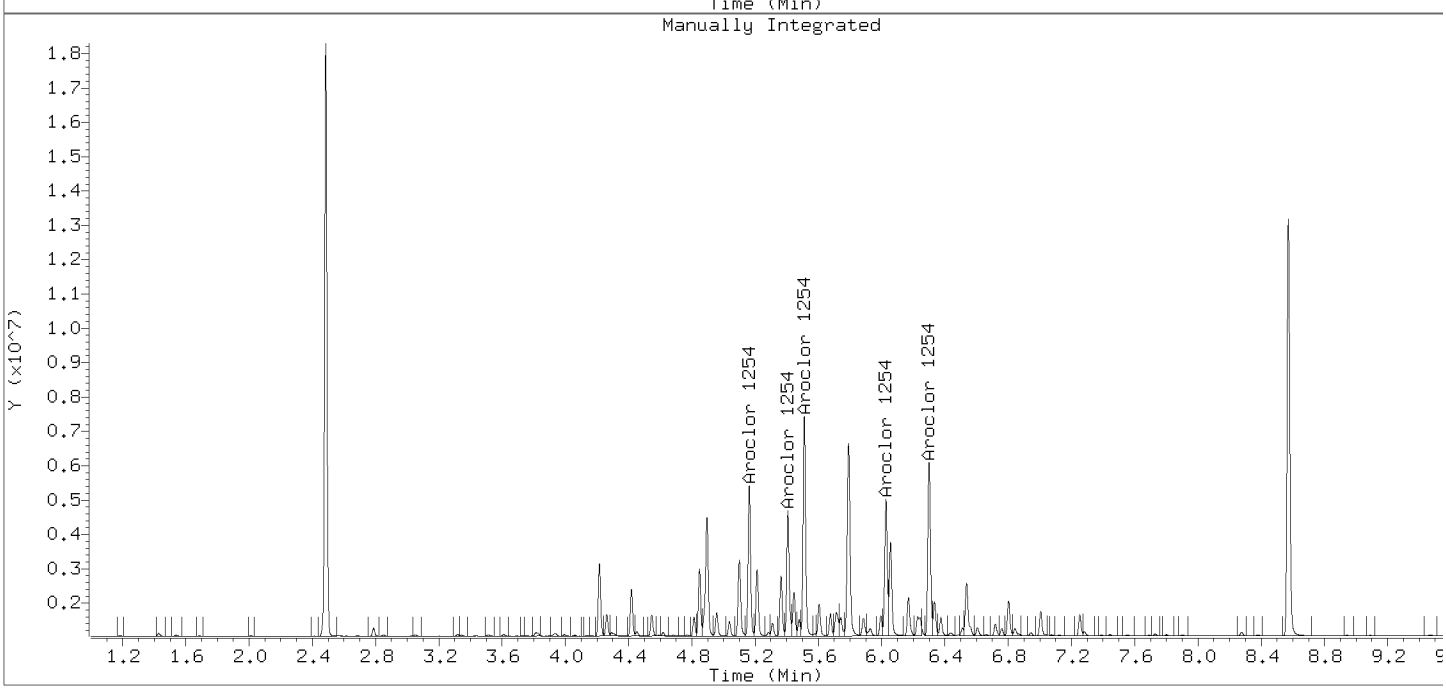
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Date : 06-MAR-2018 18:02
Client ID: 1254-CAL5C
Sample Info: 1254-CAL5C, 185556:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D
Lab Smp Id: 1660-CAL1A Client Smp ID: 1660-CAL1A
Inj Date : 06-MAR-2018 18:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:34 Cal File: 030618058.D
Als bottle: 30 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	75769	59956	0.791	0.39		
1.428	18267	12499	0.684	0.09		
1.686	19257	17034	0.885	0.10		
2.010	41793	33612	0.804	0.22		
2.405	34035	25626	0.753	0.17		
2.485	1265501	1240700	0.980	7.14	$ 2 Tetrachloro-m-xylene	
2.687	45905	38796	0.845	0.24		
2.791	69017	64076	0.928	0.36		
2.850	244595	230348	0.942	1.29		
3.030	26125	23948	0.917	0.13		
3.053	41274	35596	0.862	0.21		
3.319	334670	316544	0.946	1.76	5 Aroclor 1016	BA
3.345	198504	179987	0.907	1.04		
3.434	61488	51551	0.838	0.32		
3.514	336132	236249	0.703	1.77	5 Aroclor 1016	BA
3.732	87942	87307	0.993	0.46		
3.756	56569	52611	0.930	0.29		
3.827	961910	568396	0.591	5.07	5 Aroclor 1016	BA
3.929	407299	336226	0.826	2.14	5 Aroclor 1016	BA
3.995	291299	270962	0.930	1.53	5 Aroclor 1016	BA
4.057	91678	78986	0.862	0.48		
4.137	38165	30755	0.806	0.20		
4.215	245118	232129	0.947	1.29		
4.262	215370	204306	0.949	1.13		
4.294	97069	97854	1.008	0.51		
4.311	121075	108897	0.899	0.63		
4.418	296094	277838	0.938	1.56		
4.452	228098	168917	0.741	1.20		
4.546	376428	345686	0.918	1.98		
4.618	89285	79390	0.889	0.47		
4.725	18650	14732	0.790	0.09		
4.768	15175	13986	0.922	0.08		
4.814	70800	67479	0.953	0.37		
4.847	108064	102590	0.949	0.57		
4.895	365187	264463	0.724	1.92		
4.959	28108	18371	0.654	0.14		
5.037	24776	19872	0.802	0.13		

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D
Lab Smp Id: 1660-CAL1A Client Smp ID: 1660-CAL1A
Inj Date : 06-MAR-2018 18:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:34 Cal File: 030618058.D
Als bottle: 30 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	1265501	0.01000	0.010			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	334670	0.10000	0.11	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	336131	0.10000	0.11	0.00- 20.00	100.44	BA
3.826	3.826	0.000	961909	0.10000	0.11	0.00- 20.00	287.42	BA
3.928	3.929	-0.001	407299	0.10000	0.11	0.00- 20.00	121.70	BA
3.995	3.994	0.001	291298	0.10000	0.11	0.00- 20.00	87.04	BA
Average of Peak Amounts =					0.11000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	956999	0.10000	0.11	0.00- 20.00	100.00(M)	CO
7.006	7.006	0.000	1074661	0.10000	0.11	0.00- 20.00	112.29	CO
7.252	7.251	0.001	505237	0.10000	0.10	0.00- 20.00	52.79	CO
7.444	7.443	0.001	313102	0.10000	0.11	0.00- 20.00	32.72	CO
7.902	7.901	0.001	285359	0.10000	0.11	0.00- 20.00	29.82	CO
Average of Peak Amounts =					0.10800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	1252234	0.01000	0.011			

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D

Date : 06-MAR-2018 18:34

Client ID: 1660-CAL1A

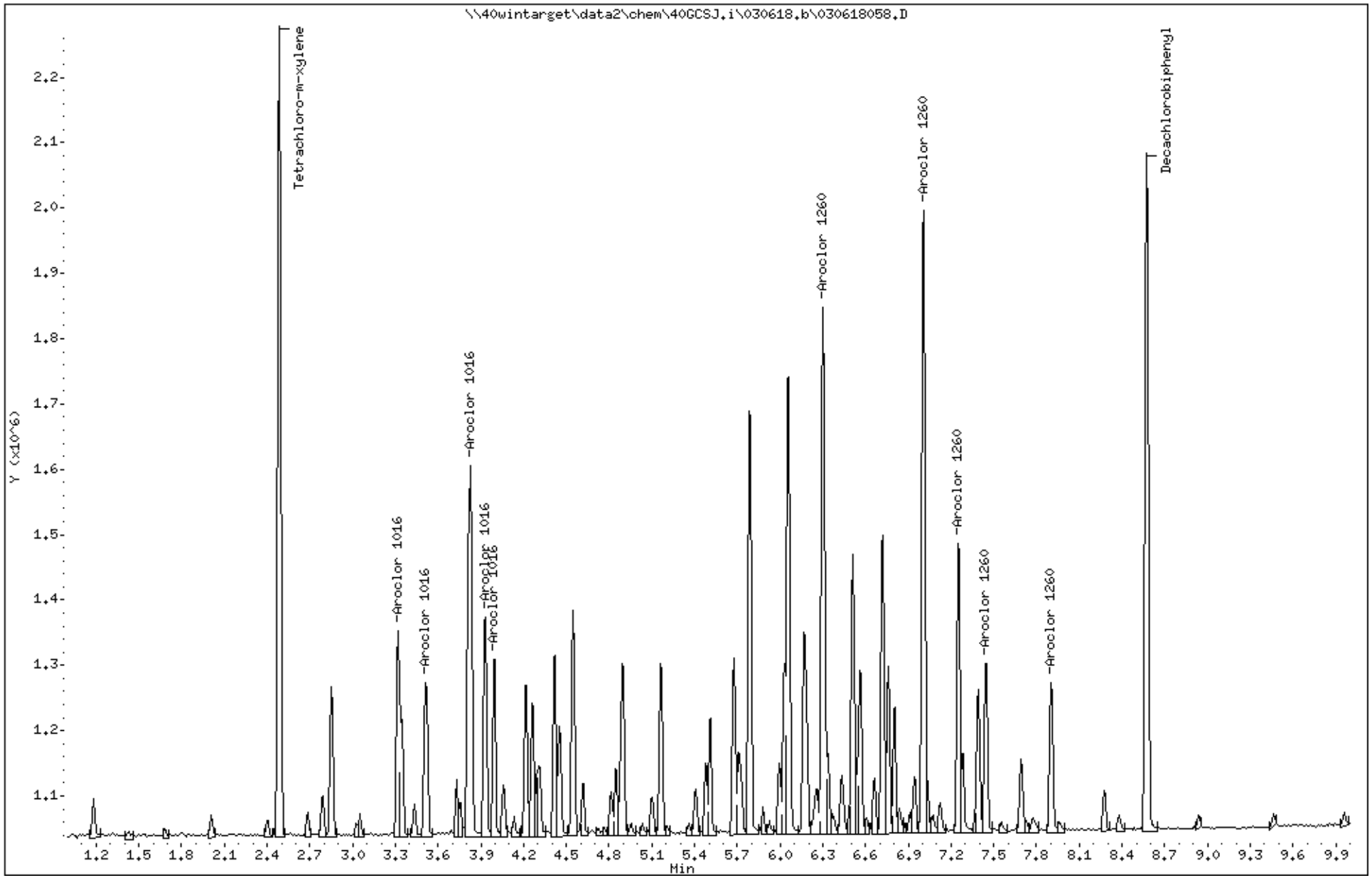
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

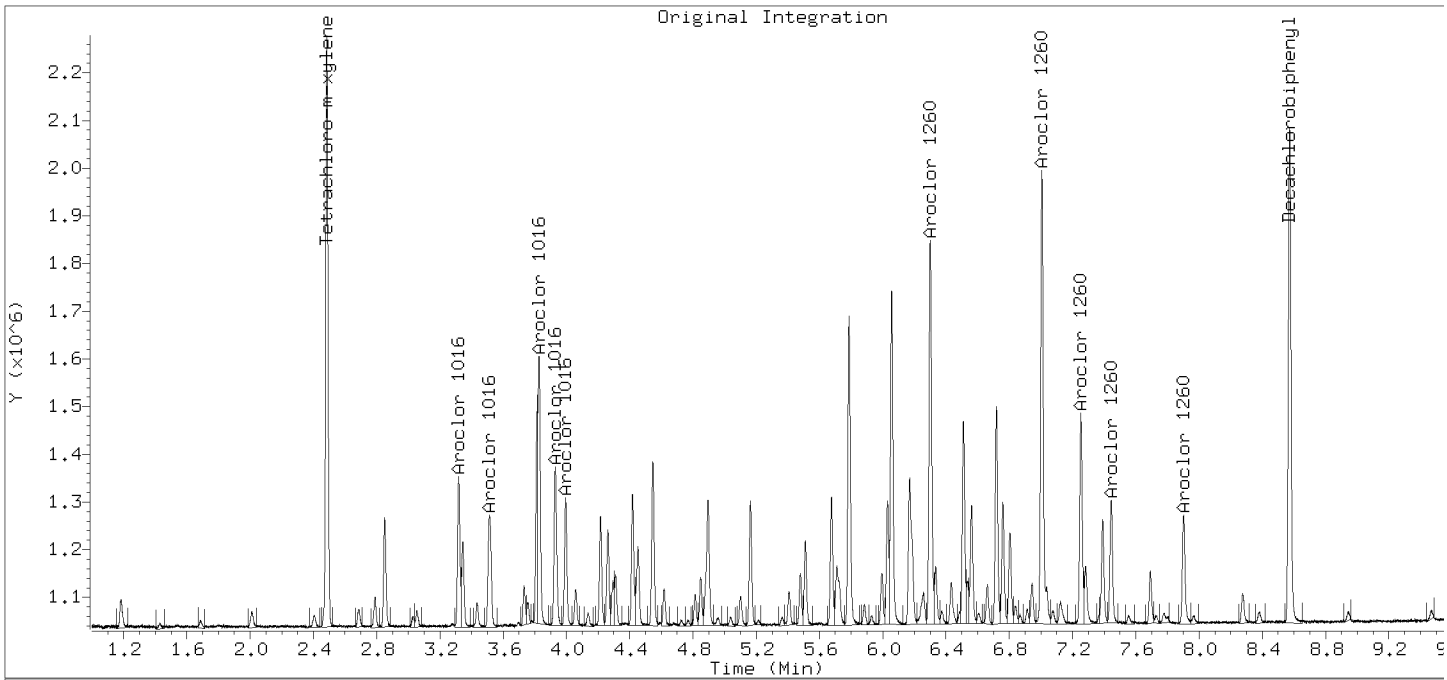
Operator: BLM

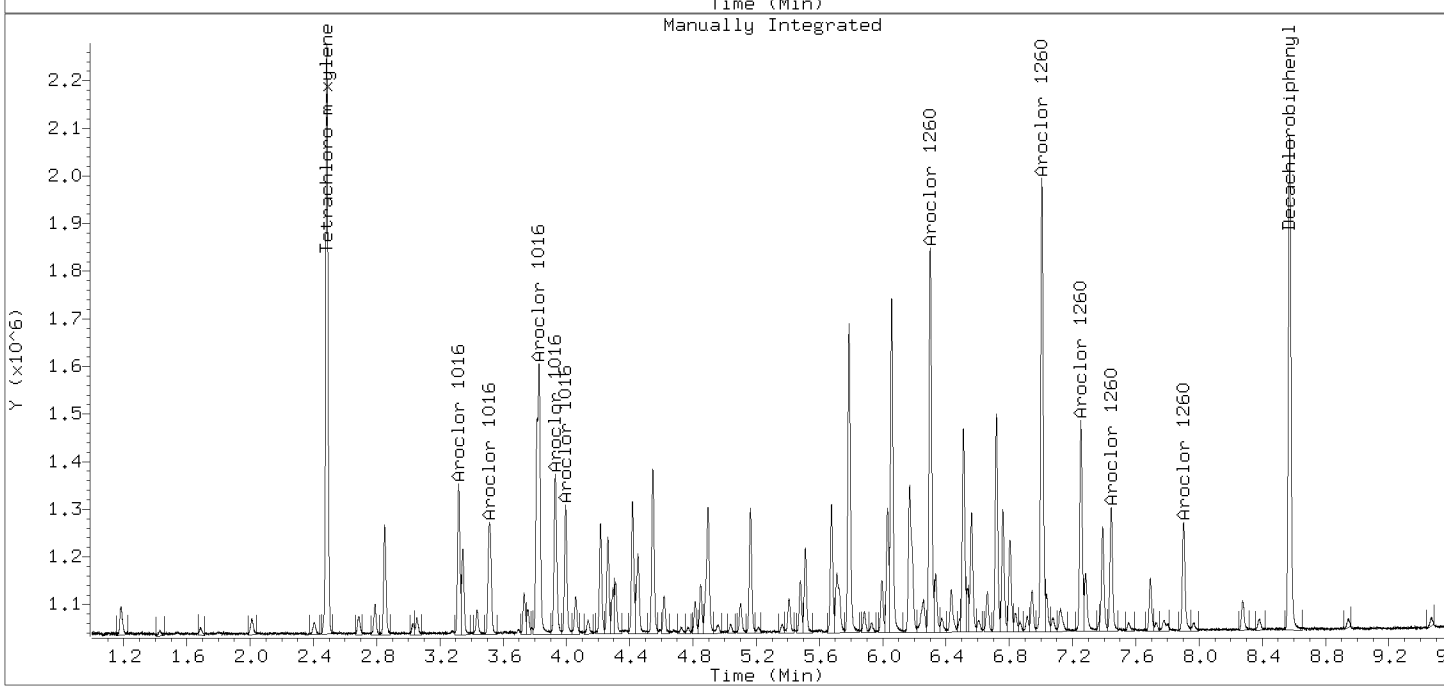
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 06-MAR-2018 18:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:51 Cal File: 030618060.D
Als bottle: 31 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	55176	41178	0.746	0.15		
1.429	21015	18585	0.884	0.05		
1.802	12282	8623	0.702	0.03		
2.011	32498	25901	0.797	0.09		
2.404	67139	48192	0.718	0.18		
2.484	2499487	2410686	0.964	7.40	$ 2 Tetrachloro-m-xylene	
2.687	94590	70872	0.749	0.26		
2.789	132356	122708	0.927	0.36		
2.851	469229	448920	0.957	1.30		
3.028	20462	19526	0.954	0.05		
3.054	77836	65563	0.842	0.21		
3.280	13769	10123	0.735	0.03		
3.318	654061	624883	0.955	1.81	5 Aroclor 1016	BA
3.345	373017	342479	0.918	1.03		
3.436	104520	94613	0.905	0.28		
3.513	645015	465357	0.721	1.78	5 Aroclor 1016	BA
3.614	11902	11206	0.942	0.03		
3.697	20307	21558	1.062	0.05		
3.732	166970	164519	0.985	0.46		
3.756	105123	106344	1.012	0.29		
3.827	1858995	1113513	0.599	5.15	5 Aroclor 1016	BA
3.929	794562	664351	0.836	2.20	5 Aroclor 1016	BA
3.995	538852	516167	0.958	1.49	5 Aroclor 1016	BA
4.059	153652	141937	0.924	0.42		
4.137	64387	55721	0.865	0.17		
4.215	463064	450944	0.974	1.28		
4.261	411934	395299	0.960	1.14		
4.293	176764	178584	1.010	0.48		
4.310	214978	205952	0.958	0.59		
4.368	18687	13075	0.700	0.05		
4.417	569211	550417	0.967	1.57		
4.452	428711	317474	0.741	1.18		
4.546	747149	680932	0.911	2.07		
4.617	172002	154821	0.900	0.47		
4.675	18051	11895	0.659	0.05		
4.728	31765	25328	0.797	0.08		
4.768	26719	24282	0.909	0.07		

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 06-MAR-2018 18:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:51 Cal File: 030618060.D
Als bottle: 31 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	2499486	0.02000	0.020			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	654060	0.20000	0.21	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	645015	0.20000	0.21	0.00- 20.00	98.62	BA
3.826	3.826	0.000	1858994	0.20000	0.21	0.00- 20.00	284.22	BA
3.929	3.929	0.000	794562	0.20000	0.21	0.00- 20.00	121.48	BA
3.994	3.994	0.000	538852	0.20000	0.21	0.00- 20.00	82.39	BA
Average of Peak Amounts =					0.21000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	1864709	0.20000	0.21	0.00- 20.00	100.00(M)	CO
7.006	7.006	0.000	2085870	0.20000	0.21	0.00- 20.00	111.86	CO
7.252	7.251	0.001	997245	0.20000	0.21	0.00- 20.00	53.48	CO
7.443	7.443	0.000	607583	0.20000	0.21	0.00- 20.00	32.58	CO
7.900	7.901	-0.001	543647	0.20000	0.21	0.00- 20.00	29.15	CO
Average of Peak Amounts =					0.21000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	2284567	0.02000	0.021			

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D

Date : 06-MAR-2018 18:51

Client ID: 1660-CAL2A

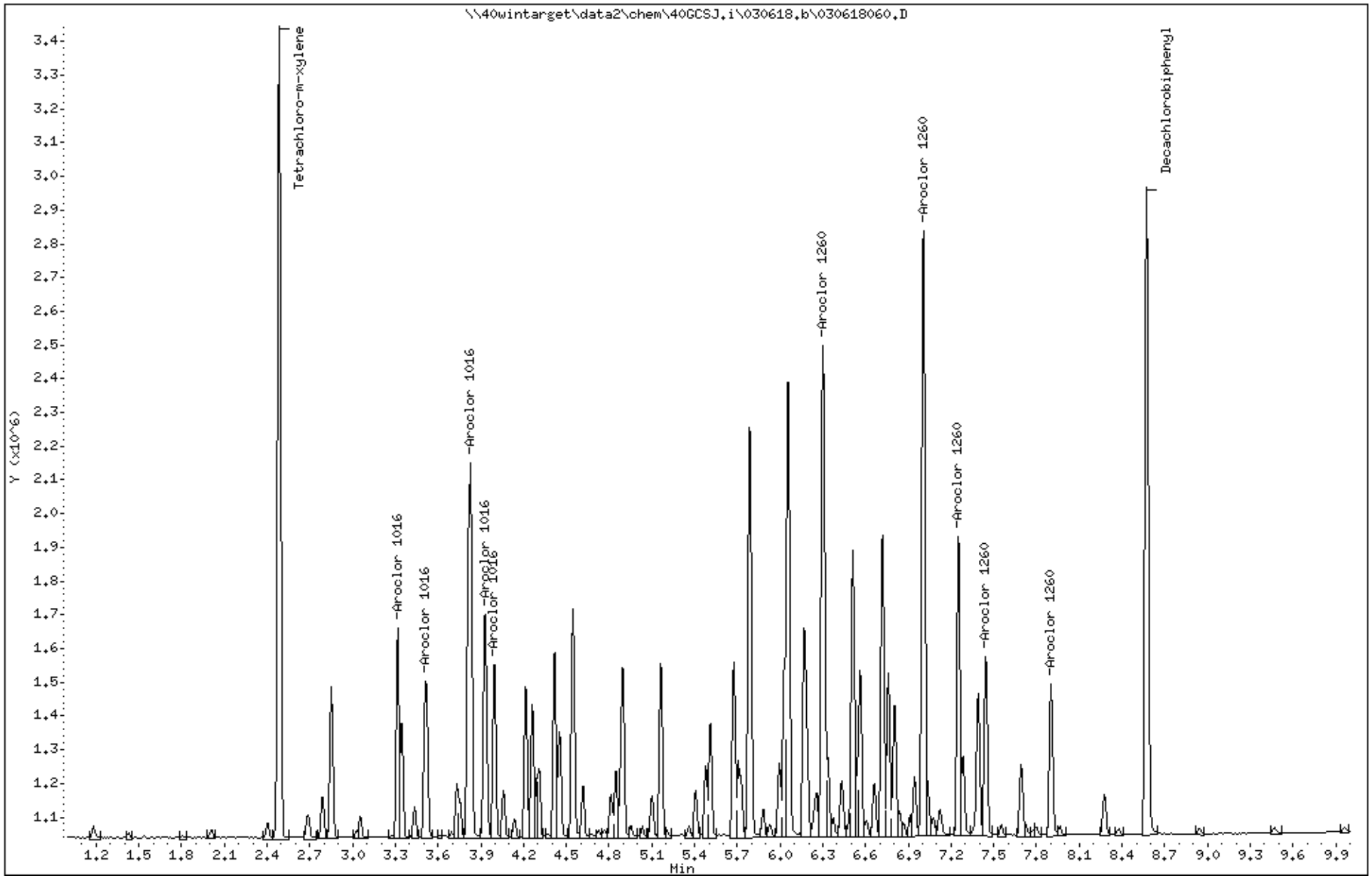
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

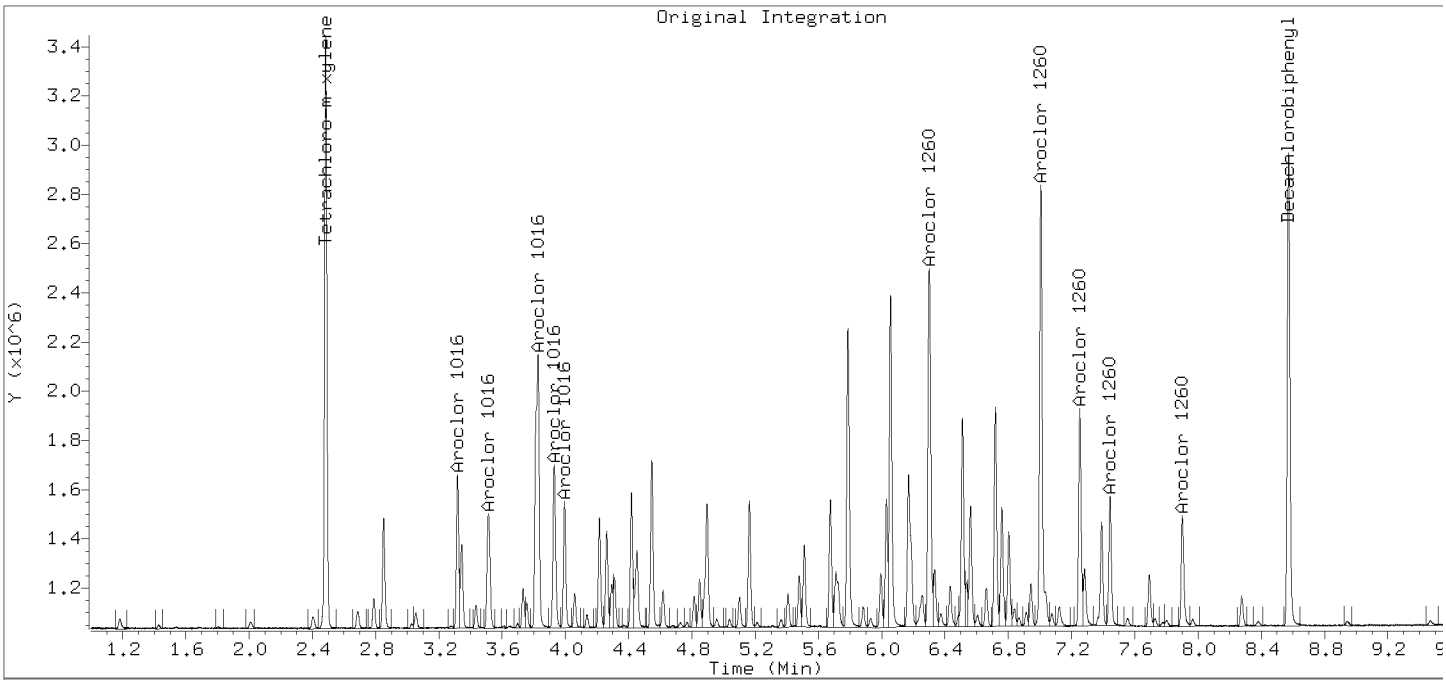
Operator: BLM

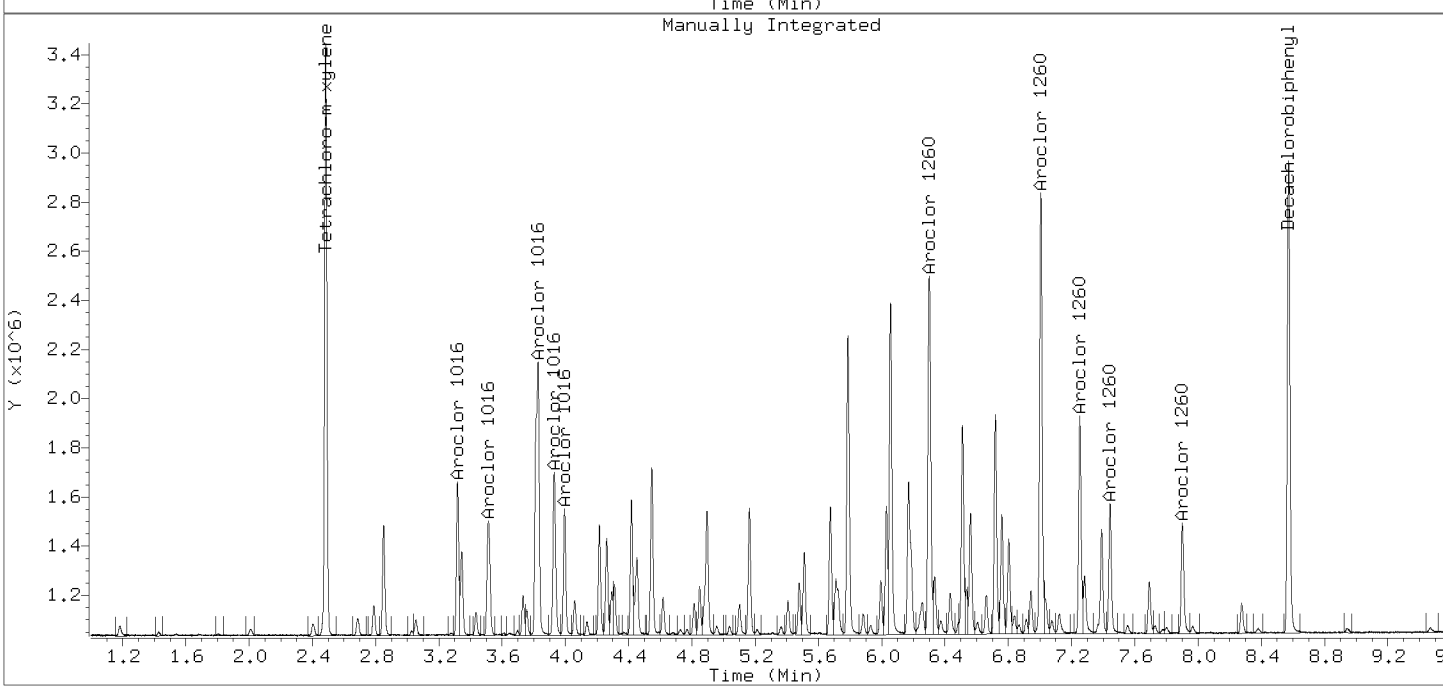
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 06-MAR-2018 19:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 32 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	73481	56448	0.768	0.08		
1.429	38001	32608	0.858	0.04		
1.537	20915	15456	0.739	0.02		
1.685	19161	19298	1.007	0.02		
1.803	18038	14682	0.814	0.02		
2.010	53413	35717	0.669	0.06		
2.404	140743	111047	0.789	0.16		
2.484	6057237	5892667	0.973	7.63	$ 2 Tetrachloro-m-xylene	
2.687	201241	167032	0.830	0.23		
2.789	304363	285330	0.937	0.35		
2.851	1109963	1029461	0.927	1.31		
3.031	24750	24475	0.989	0.02		
3.055	178487	159145	0.892	0.21		
3.278	26481	21063	0.795	0.03		
3.318	1513499	1414991	0.935	1.78	5 Aroclor 1016	BA
3.345	880540	822356	0.934	1.04		
3.434	247038	220109	0.891	0.29		
3.513	1532387	1090208	0.711	1.81	5 Aroclor 1016	BA
3.611	27202	25734	0.946	0.03		
3.647	29738	19736	0.664	0.03		
3.697	43175	42217	0.978	0.05		
3.732	381498	383355	1.005	0.45		
3.756	273430	243142	0.889	0.32		
3.826	4314630	2564491	0.594	5.10	5 Aroclor 1016	BA
3.929	1875063	1563785	0.834	2.21	5 Aroclor 1016	BA
3.994	1275640	1205112	0.945	1.50	5 Aroclor 1016	BA
4.059	356271	321194	0.902	0.42		
4.137	142724	126589	0.887	0.16		
4.215	1091767	1043921	0.956	1.29		
4.261	983477	936778	0.953	1.16		
4.293	419201	426725	1.018	0.49		
4.310	507212	485823	0.958	0.59		
4.372	34974	24662	0.705	0.04		
4.418	1378494	1285521	0.933	1.63		
4.452	991992	777670	0.784	1.17		
4.545	1720081	1585302	0.922	2.03		
4.591	26254	25937	0.988	0.03		

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 06-MAR-2018 19:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:30 Cal File: 030618050.D
Als bottle: 32 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6057237	0.05000	0.049			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1513499	0.50000	0.49	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	1532387	0.50000	0.49	0.00- 20.00	101.25	BA
3.826	3.826	0.000	4314629	0.50000	0.49	0.00- 20.00	285.08	BA
3.928	3.929	-0.001	1875063	0.50000	0.50	0.00- 20.00	123.89	BA
3.994	3.994	0.000	1275639	0.50000	0.49	0.00- 20.00	84.28	BA
Average of Peak Amounts =					0.49200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4328764	0.50000	0.49	0.00- 20.00	100.00(M)	CO
7.005	7.006	-0.001	4908203	0.50000	0.49	0.00- 20.00	113.39	CO
7.251	7.251	0.000	2360654	0.50000	0.49	0.00- 20.00	54.53	CO
7.443	7.443	0.000	1443849	0.50000	0.50	0.00- 20.00	33.35	CO
7.901	7.901	0.000	1312522	0.50000	0.50	0.00- 20.00	30.32	CO
Average of Peak Amounts =					0.49400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5312751	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

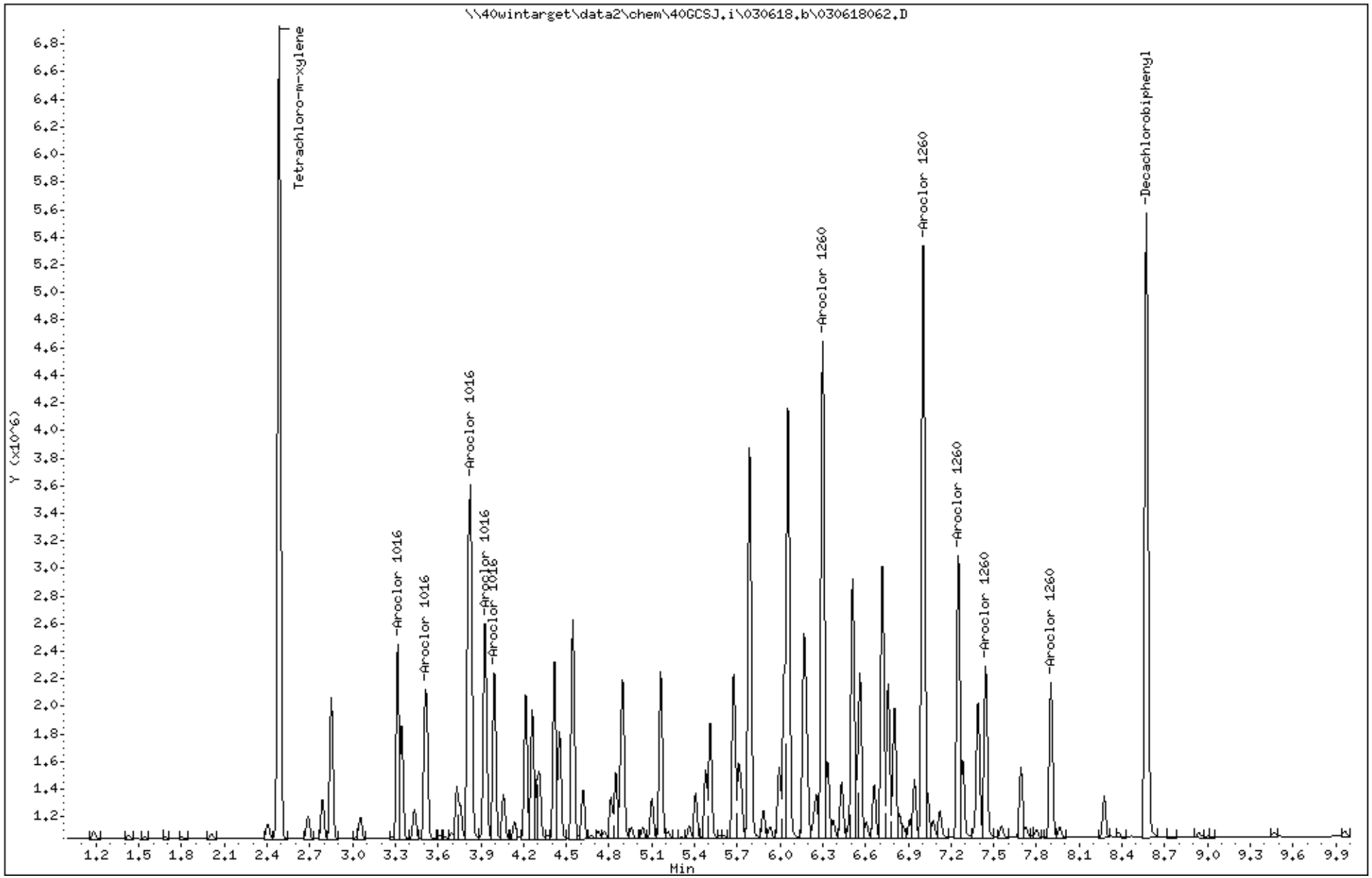
QC Flag Legend

Review Codes Legend

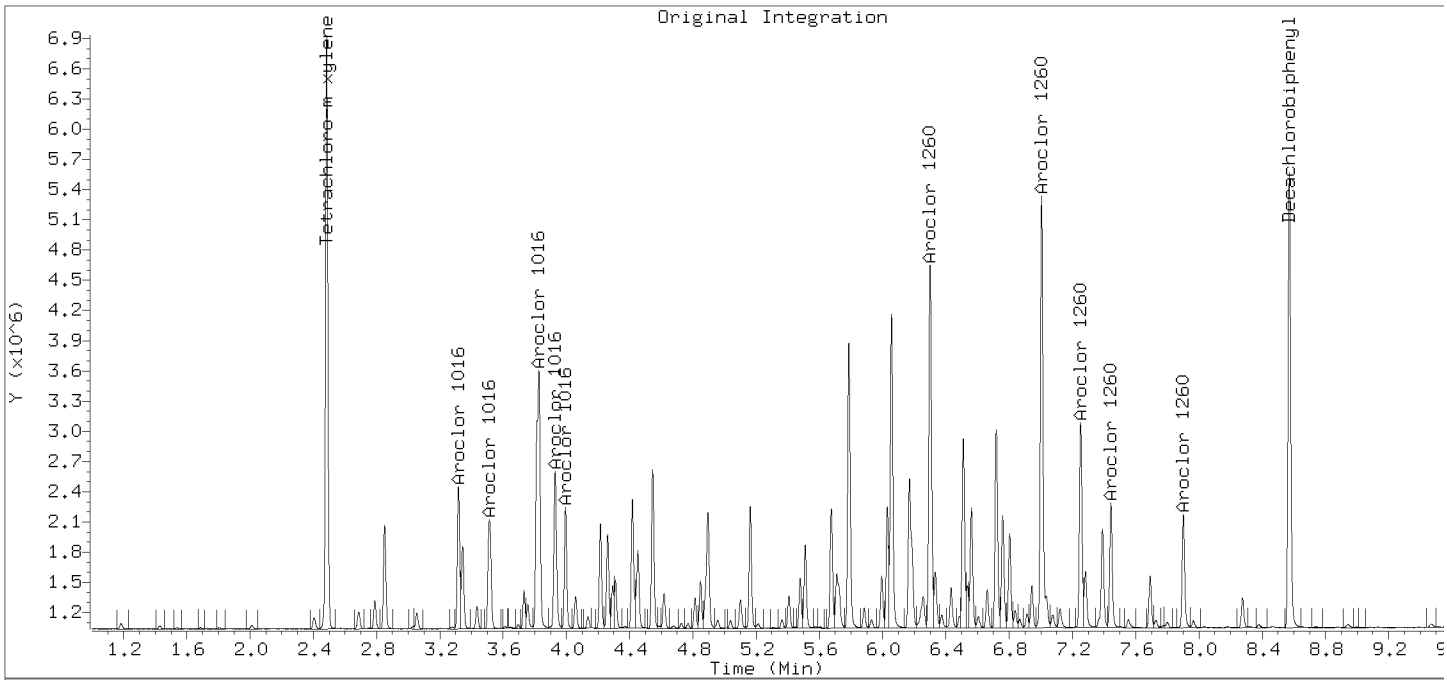
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

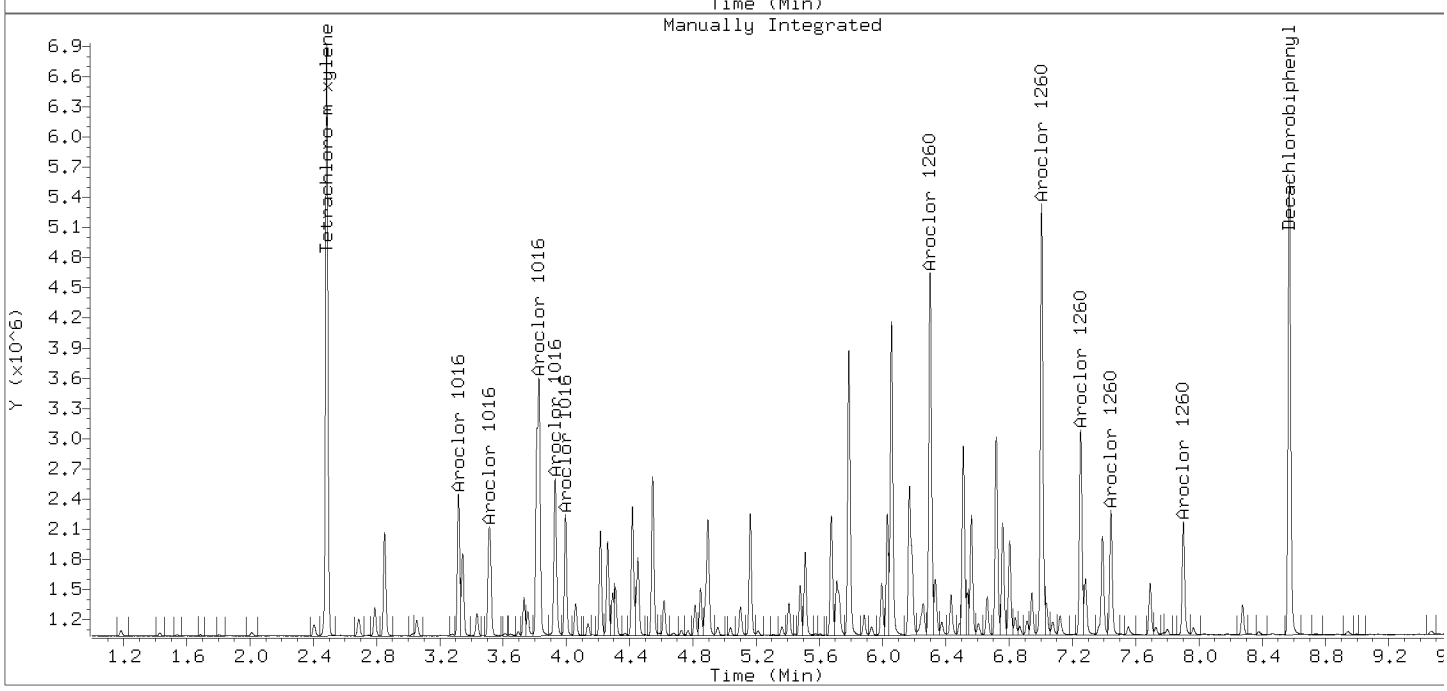
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 06-MAR-2018 19:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618064.D
Als bottle: 33 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	51048	39743	0.779	0.03		
1.428	67658	59771	0.883	0.05		
1.537	35520	27064	0.762	0.02		
1.684	11345	12242	1.079	0.00		
1.804	26637	21421	0.804	0.01		
2.010	30322	24464	0.807	0.02		
2.405	217693	168016	0.772	0.16		
2.485	12180956	11703129	0.961	9.57	$ 2 Tetrachloro-m-xylene	
2.686	324056	263363	0.813	0.24		
2.788	503381	488978	0.971	0.37		
2.851	1715701	1591093	0.927	1.27		
3.033	12533	16182	1.291	0.00		
3.055	262518	238547	0.909	0.19		
3.277	37151	29842	0.803	0.02		
3.318	2333577	2156053	0.924	1.73	5 Aroclor 1016	BA
3.344	1347877	1252078	0.929	1.00		
3.435	374972	344552	0.919	0.27		
3.513	2362745	1662196	0.704	1.75	5 Aroclor 1016	BA
3.610	37684	33923	0.900	0.02		
3.644	36588	23793	0.650	0.02		
3.697	64716	64546	0.997	0.04		
3.733	614707	615053	1.001	0.45		
3.757	393294	383146	0.974	0.29		
3.827	6746065	3969633	0.588	5.01	5 Aroclor 1016	BA
3.929	2864977	2413896	0.843	2.12	5 Aroclor 1016	BA
3.995	1946759	1862950	0.957	1.44	5 Aroclor 1016	BA
4.059	556550	510919	0.918	0.41		
4.136	217971	201589	0.925	0.16		
4.215	1671721	1557184	0.931	1.24		
4.262	1509426	1424890	0.944	1.12		
4.293	644274	673004	1.045	0.47		
4.310	801855	741139	0.924	0.59		
4.372	46455	38102	0.820	0.03		
4.418	2086121	1916658	0.919	1.55		
4.453	1561367	1168414	0.748	1.16		
4.546	2691796	2429747	0.903	2.00		
4.618	614879	582697	0.948	0.45		

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

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

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 06-MAR-2018 19:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618064.D
Als bottle: 33 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	12180955	0.10000	0.099			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	2333576	0.80000	0.76	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	2362744	0.80000	0.76	0.00- 20.00	101.25	BA
3.826	3.826	0.000	6746064	0.80000	0.76	0.00- 20.00	289.09	BA
3.929	3.929	0.000	2864977	0.80000	0.76	0.00- 20.00	122.77	BA
3.995	3.994	0.001	1946758	0.80000	0.75	0.00- 20.00	83.42	BA
Average of Peak Amounts =					0.75800			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	6710842	0.80000	0.76	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	7621578	0.80000	0.76	0.00- 20.00	113.57	BA
7.252	7.251	0.001	3661923	0.80000	0.77	0.00- 20.00	54.57	BA
7.443	7.443	0.000	2216952	0.80000	0.76	0.00- 20.00	33.04	BA
7.901	7.901	0.000	2009347	0.80000	0.76	0.00- 20.00	29.94	BA
Average of Peak Amounts =					0.76200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10160225	0.10000	0.093			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D

Date : 06-MAR-2018 19:23

Client ID: 1660-CAL4A

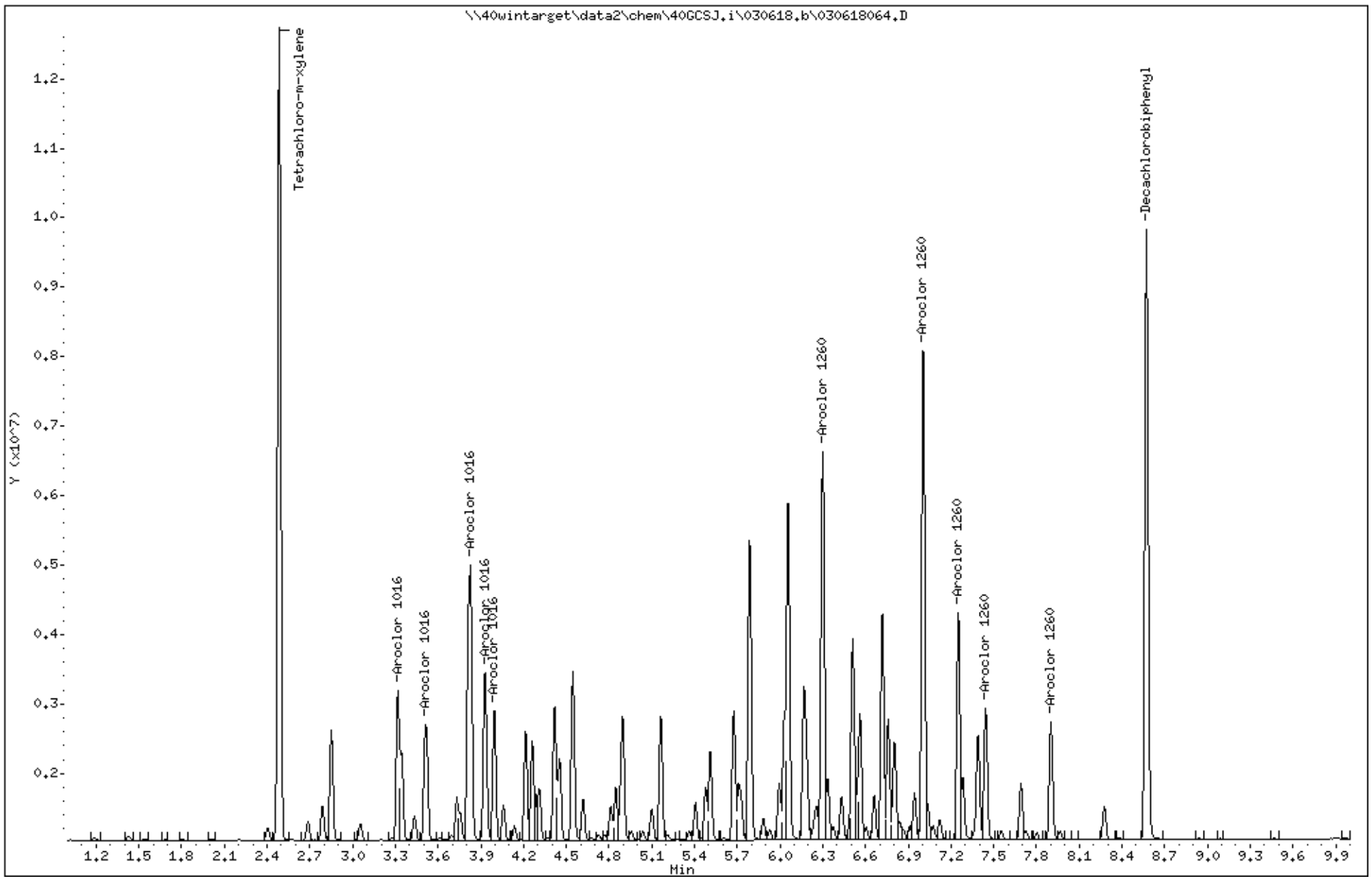
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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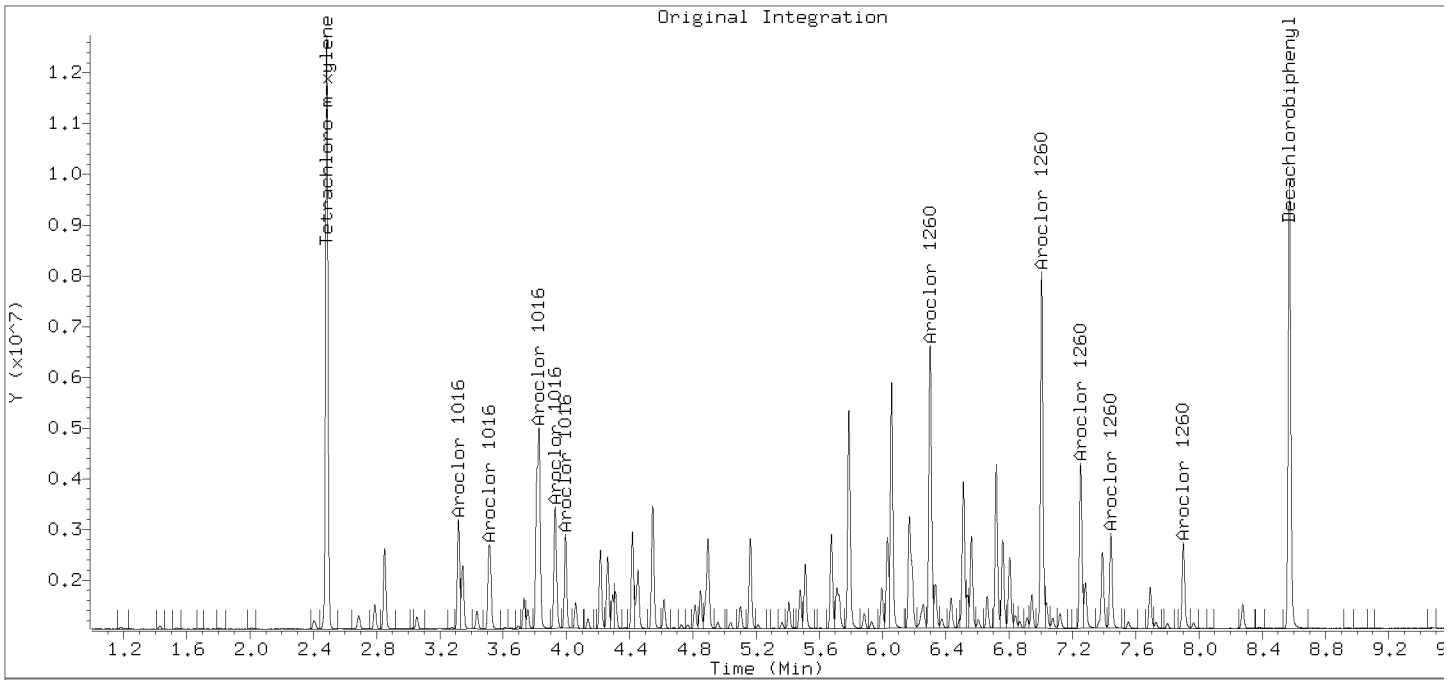
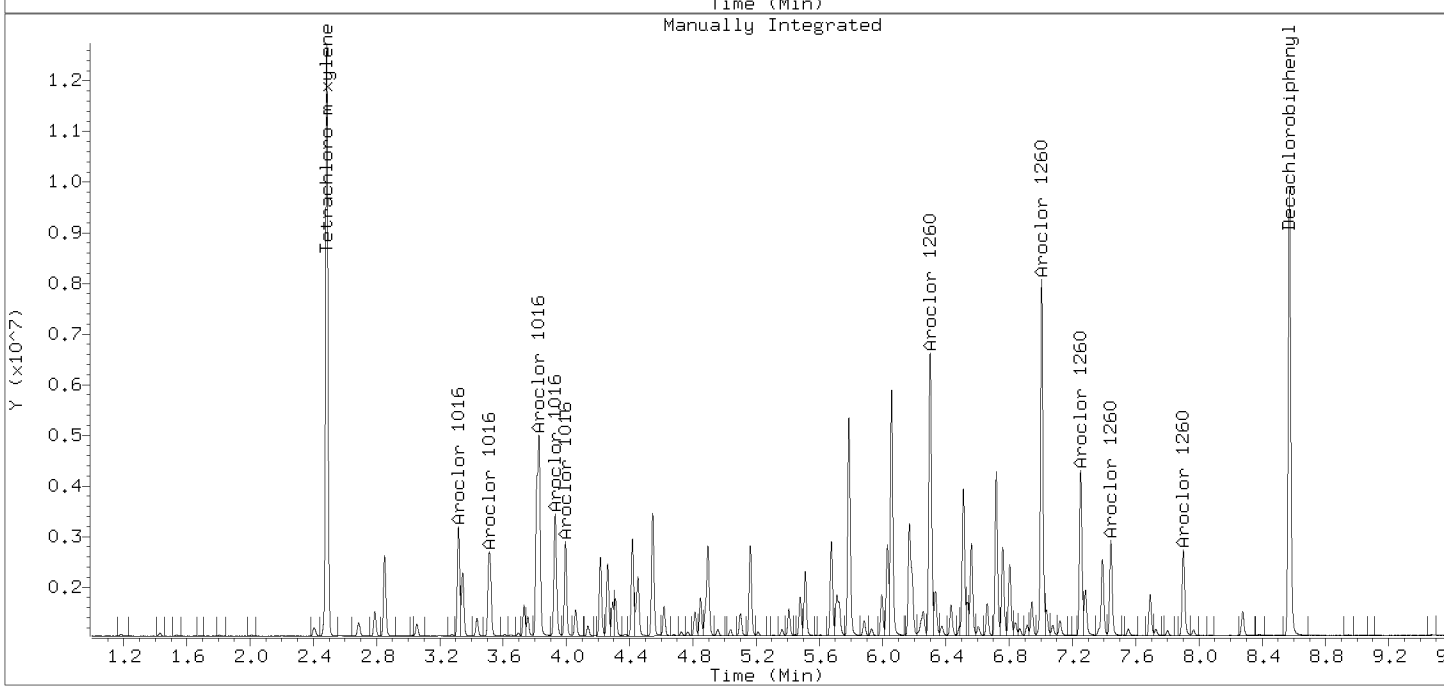
Injection Date: 06-MAR-2018 19:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL4A





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

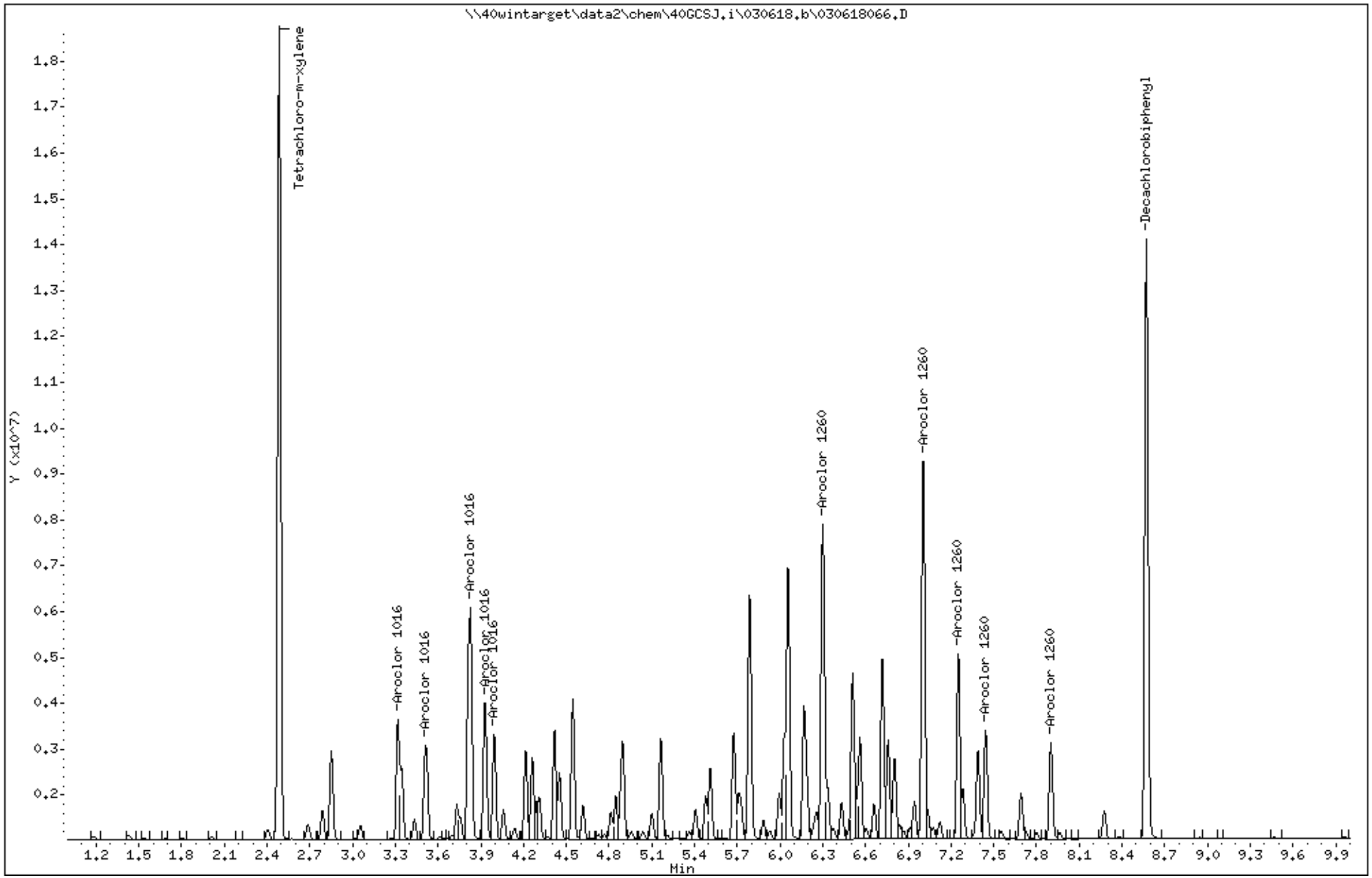
Instrument: 40GCSJ.i

Sample Info: 1660-CAL5A, 185561:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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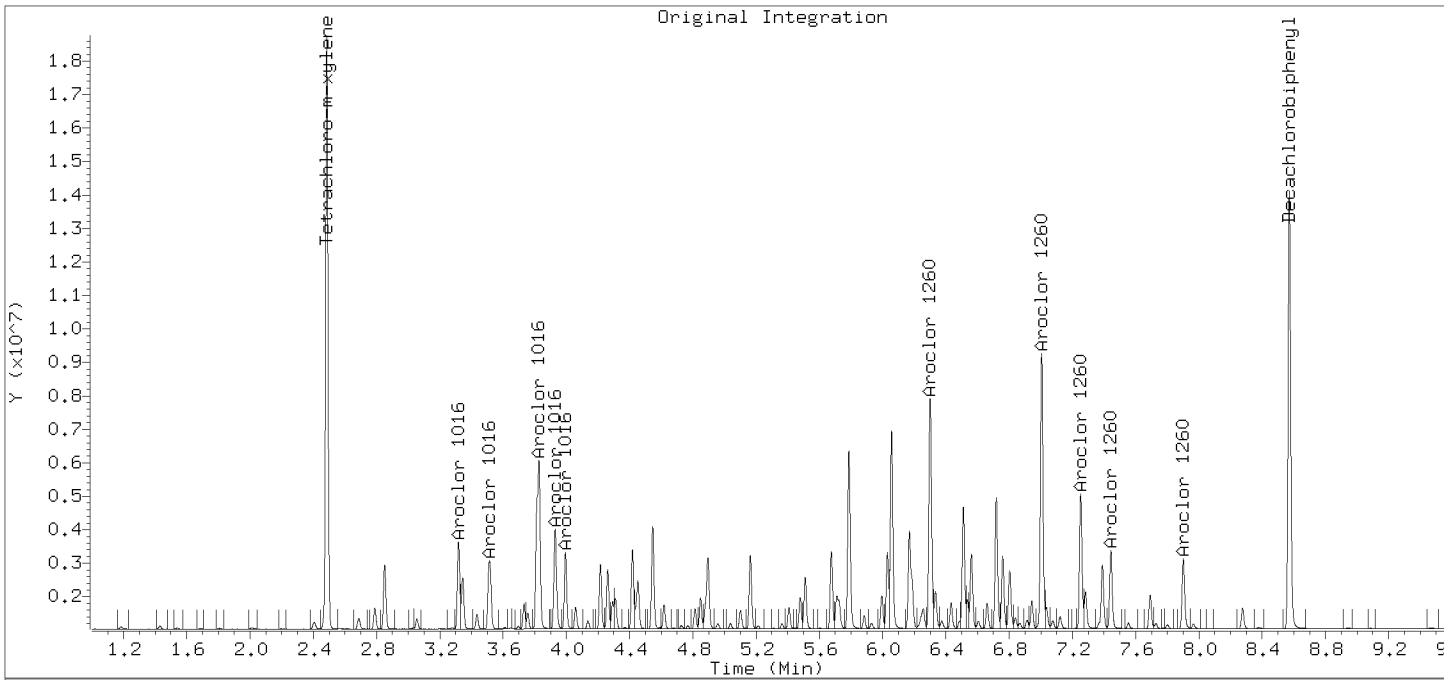
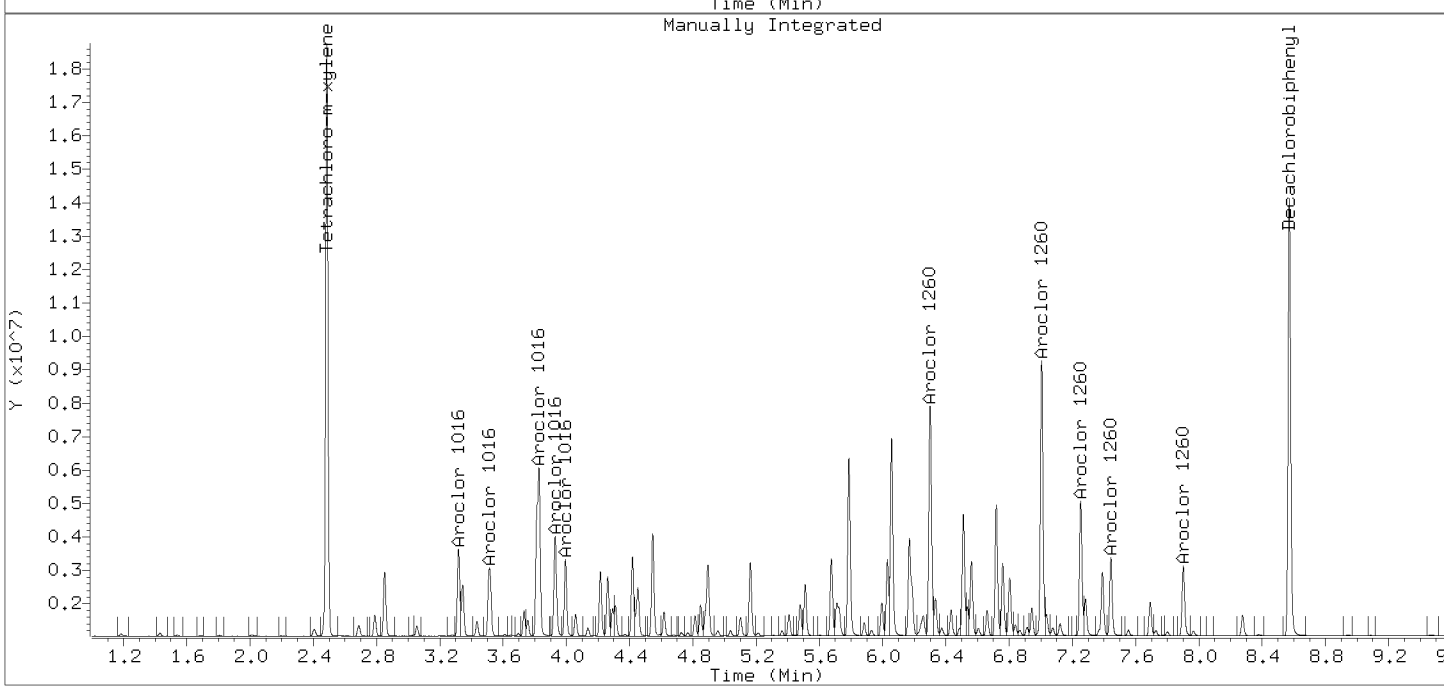
Injection Date: 06-MAR-2018 19:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL5A





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.: 40157830

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.: 40157830

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.: 40157830

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.: 40157830

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.: 40157830

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.

10879472CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/10/2018 Time: 13:35

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

Lab File ID: 041018.B\041018005.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157830

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	3095052.00	0.4616
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3106766.00	0.2505
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	8509670.00	-3.9734
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3663310.00	-3.0928
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2475860.00	-4.8971
Aroclor 1260	1	Averaged	6.299	6.266	6.334	8862352.50	8453318.00	-4.6154
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	9559216.00	-4.5450
Aroclor 1260	3	Averaged	7.251	7.217	7.285	4779803.15	4522726.00	-5.3784
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	2897864.00	-0.5916
Aroclor 1260	5	Averaged	7.899	7.867	7.935	2638735.95	2504900.00	-5.0720
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	108268860.	-1.1785
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	125460580.	1.7563

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

SAMPLE NO.

10879473CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/10/2018 Time: 16:29

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

Lab File ID: 041018.B\041018016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157830

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.805	1.77	1.838	1041256.70	1046386.00	0.4926
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	547456.000	-0.0706
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1395476.00	0.8775
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1103498.00	-0.2054
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3384472.00	3.9649
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	107819840.	-1.5883
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	123498360.	0.1649

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

SAMPLE NO.

10883265CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/10/2018 Time: 19:39

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

Lab File ID: 041018.B\041018028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157830

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.85	2.817	2.885	2500024.00	2667442.00	6.6967
Aroclor 1232	2	Averaged	3.514	3.479	3.547	1339782.00	1383046.00	3.2292
Aroclor 1232	3	Averaged	3.825	3.793	3.861	3749726.00	3969136.00	5.8514
Aroclor 1232	4	Averaged	3.928	3.895	3.963	1606492.00	1704804.00	6.1197
Aroclor 1232	5	Averaged	3.993	3.961	4.029	1091876.00	1112998.00	1.9345
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	105091020.	-4.0790
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	118805060.	-3.6417

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

SAMPLE NO.

10883264CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/10/2018 Time: 22:49

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

Lab File ID: 041018.B\041018040.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157830

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.316	3.284	3.352	2533198.70	2657754.00	4.9169
Aroclor 1242	2	Averaged	3.512	3.479	3.547	2520033.45	2626344.00	4.2186
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7550162.00	6.0944
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3225182.00	6.0380
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2162356.00	5.5968
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	110791280.	1.1238
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124422140.	0.9141

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.: 40157830

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.: 40157830

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.: 40157830

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.: 40157830

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.: 40157830

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.

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.: 40157830

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.: 40157830

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.: 40157830

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.

10901534CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/17/2018 Time: 19:35

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

Lab File ID: 041718.B\041718033.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157830

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	1054348.00	1.2573
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	554248.000	1.1691
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1448348.00	4.6996
Aroclor 1221	4	Averaged	2.788	2.755	2.823	1105769.55	1133946.00	2.5481
Aroclor 1221	5	Averaged	2.85	2.817	2.885	3255397.65	3469456.00	6.5755
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	112989140.	3.1299
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124732320.	1.1657

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.: 40157830

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.: 40157830

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

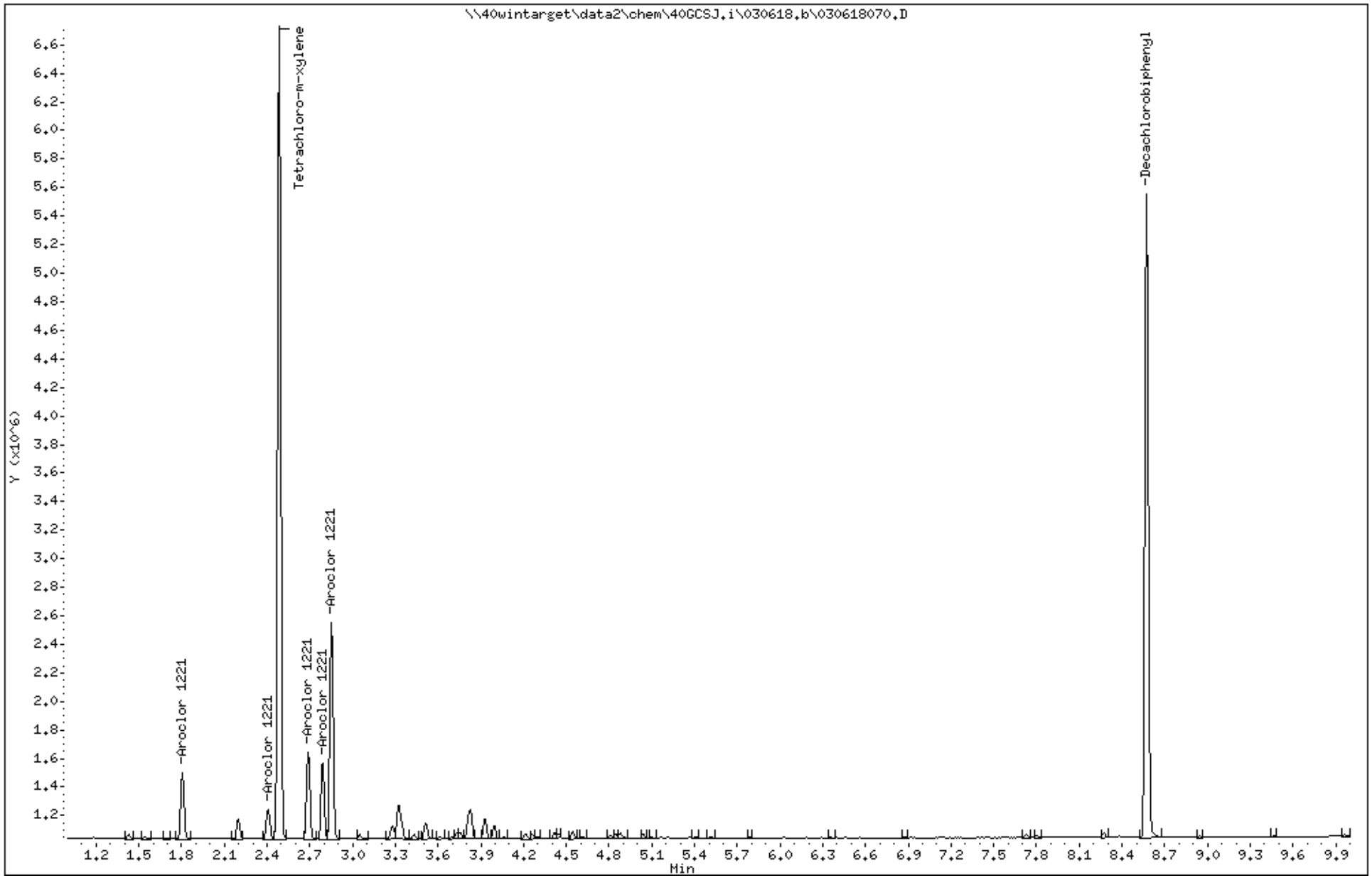
Instrument: 40GCSJ.i

Sample Info: 1221-ICV, 188142:1

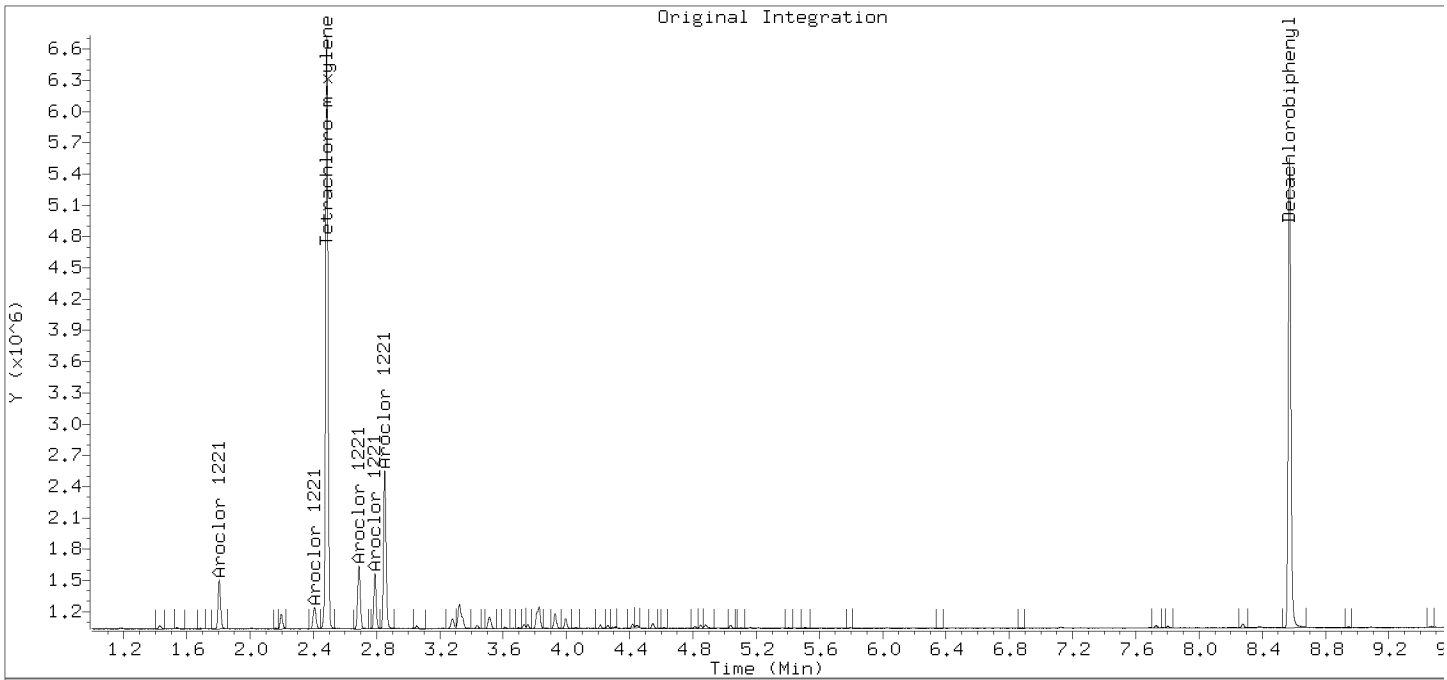
Operator: BLM

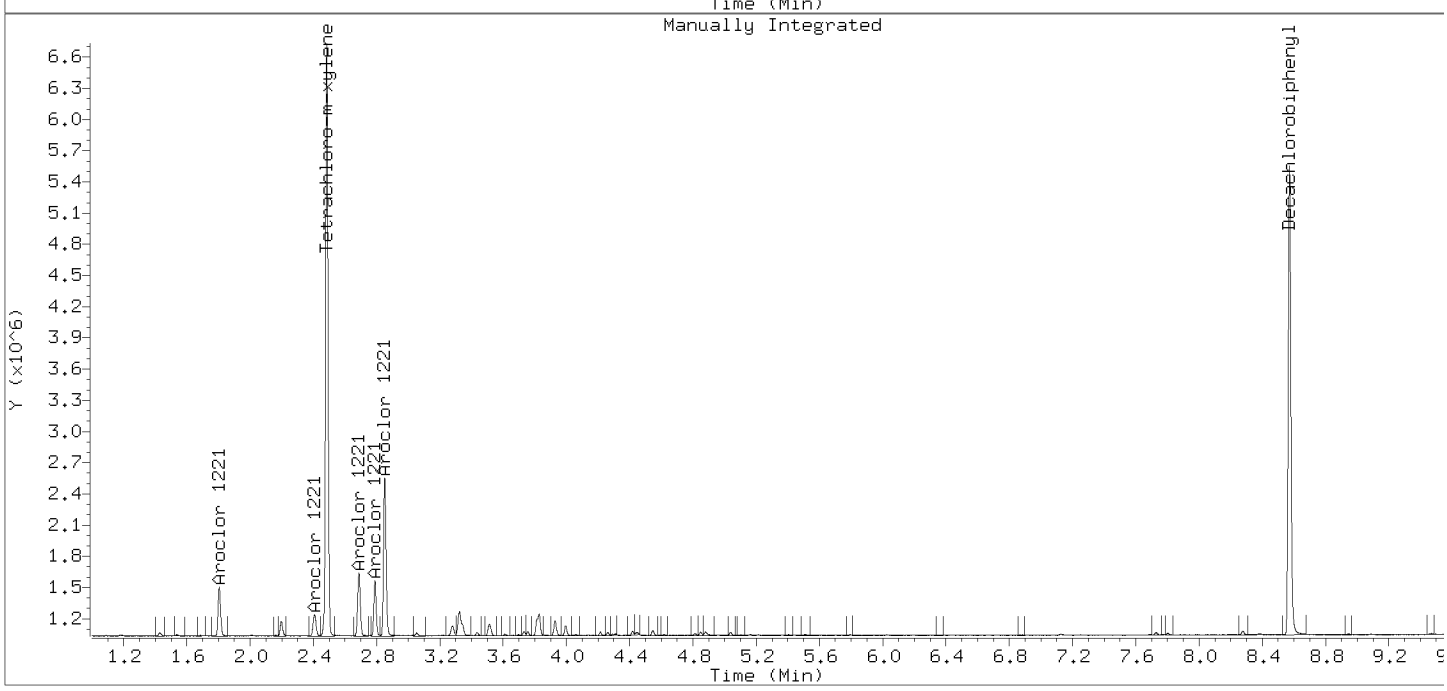
Column phase: ZB-1ms

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.

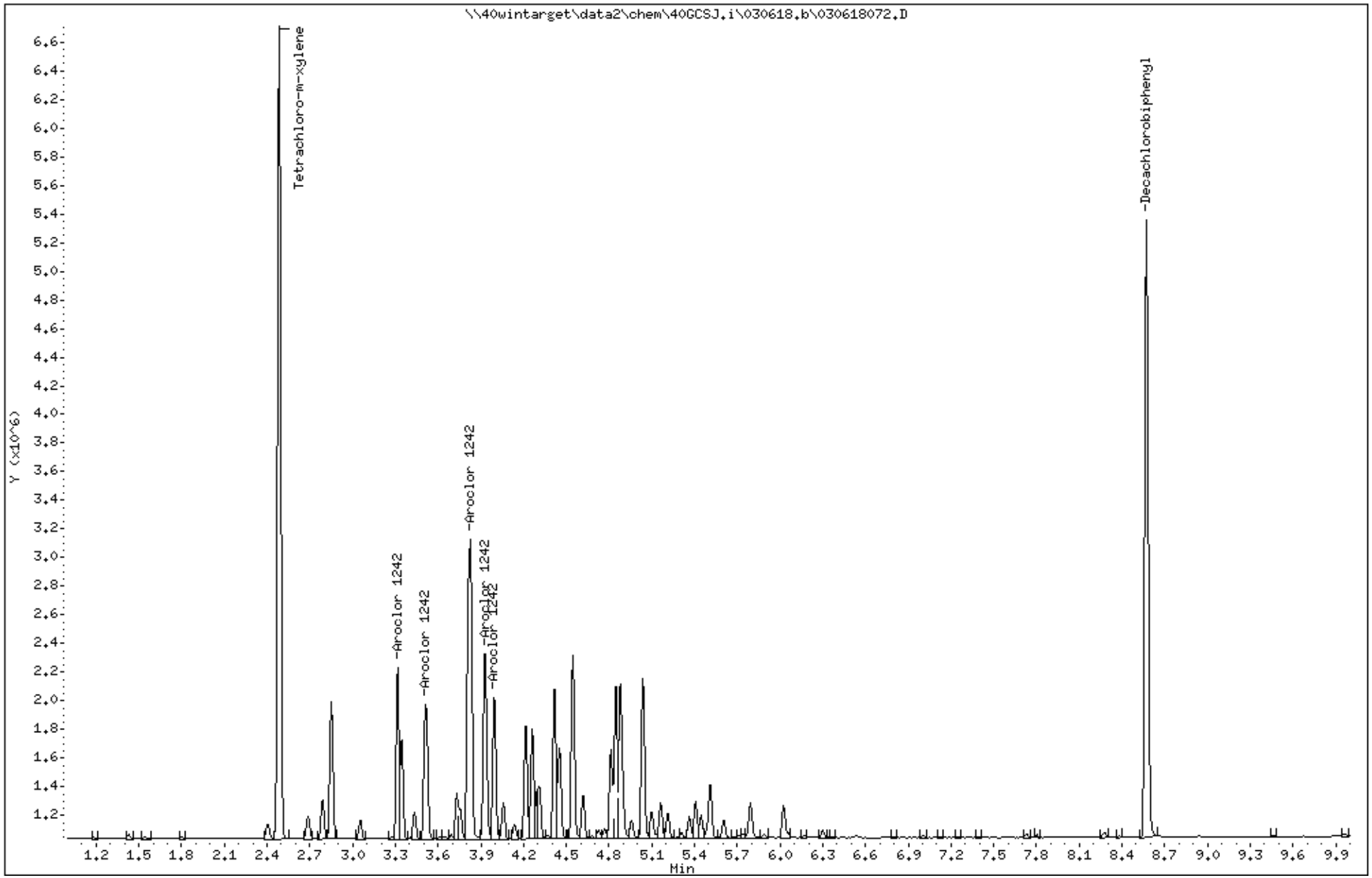
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

Instrument: 40GCSJ.i

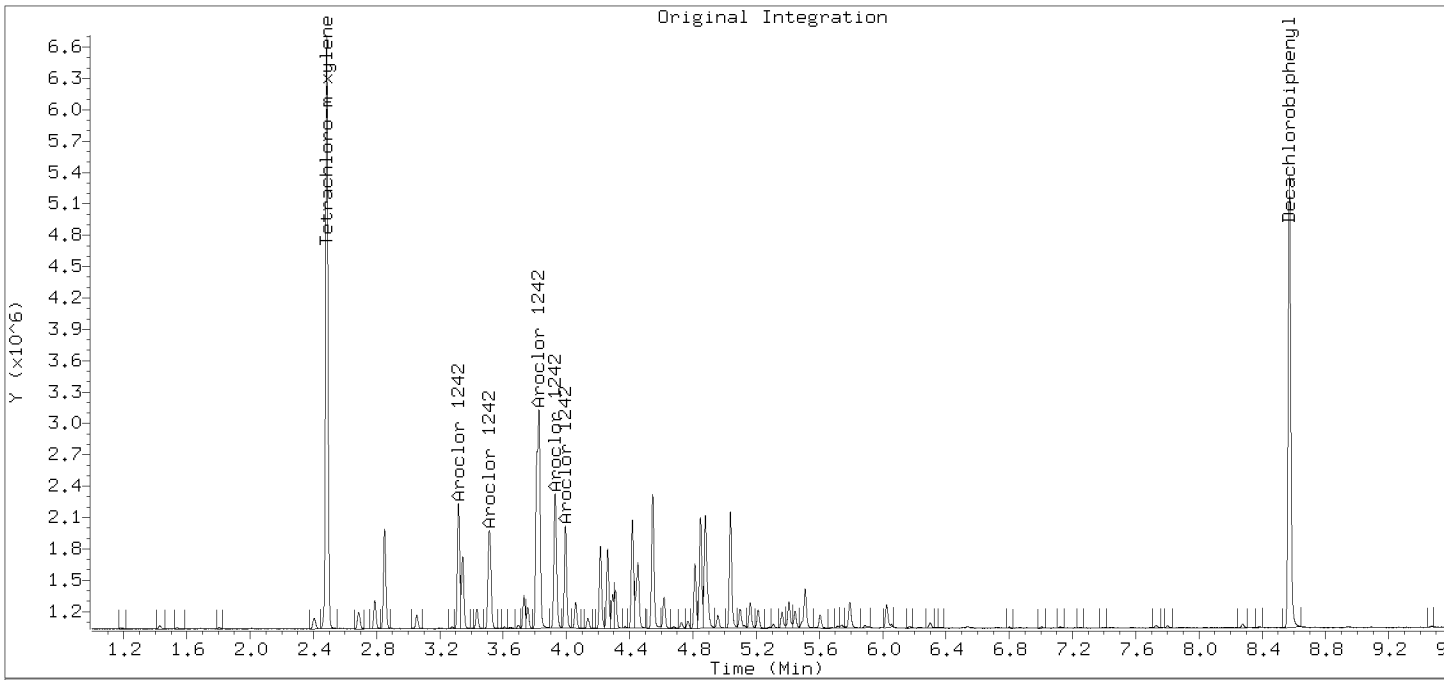
Operator: BLM

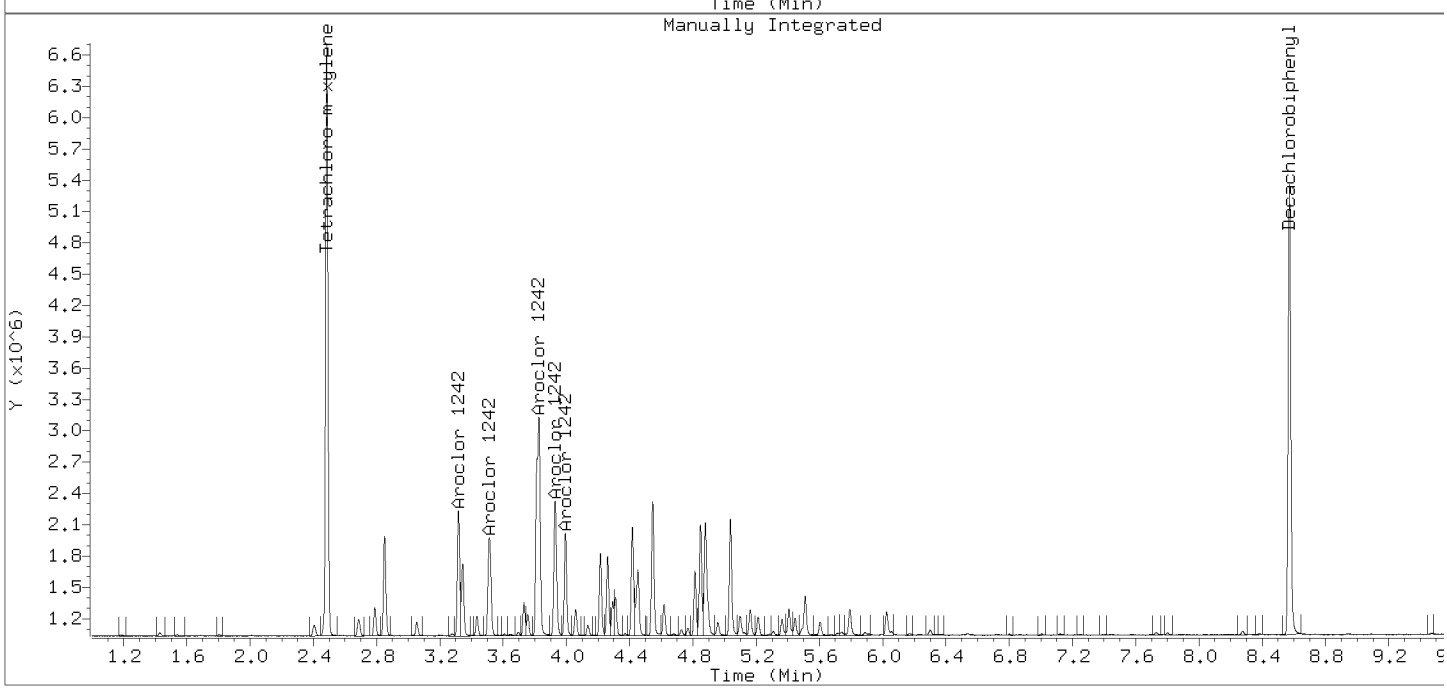
Column phase: ZB-1ms

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

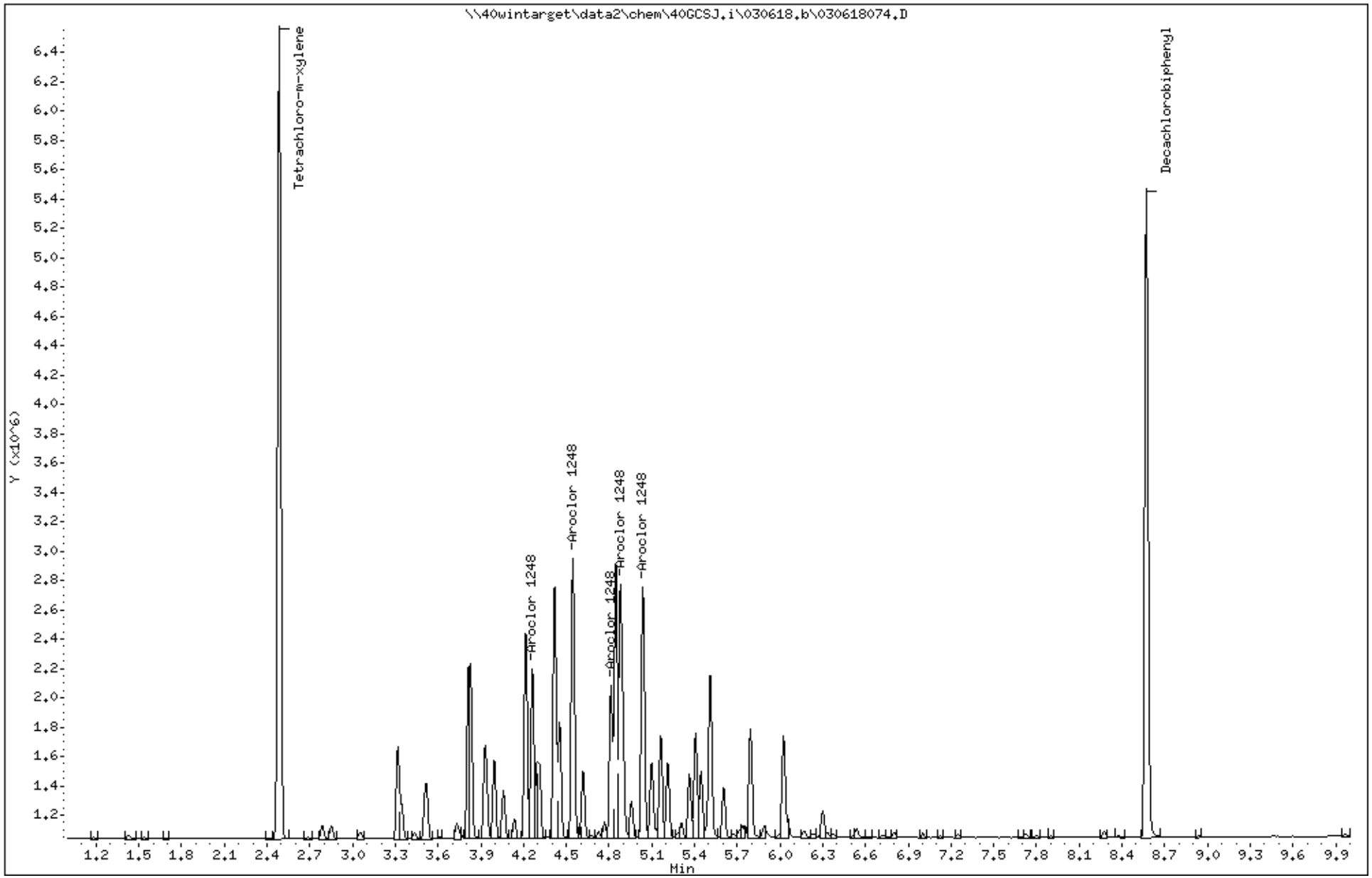
M - Compound response manually integrated.

Review Codes Legend

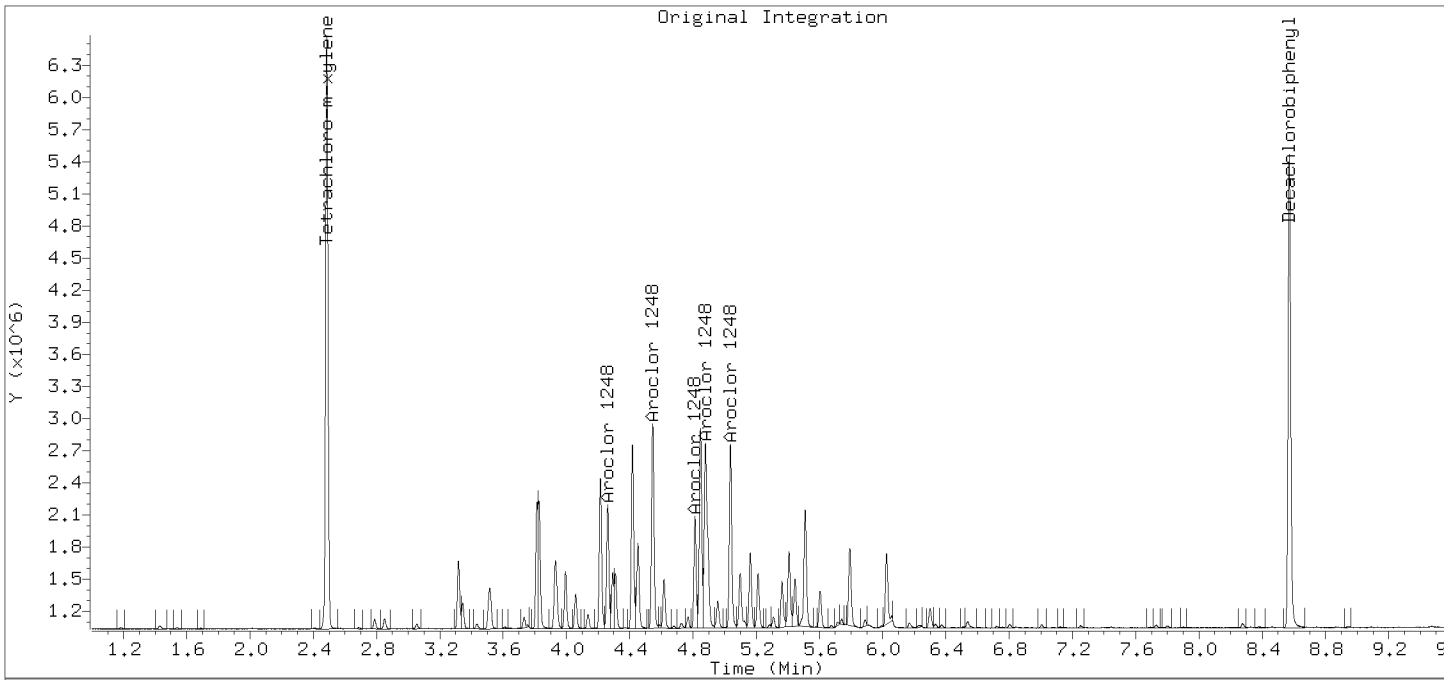
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

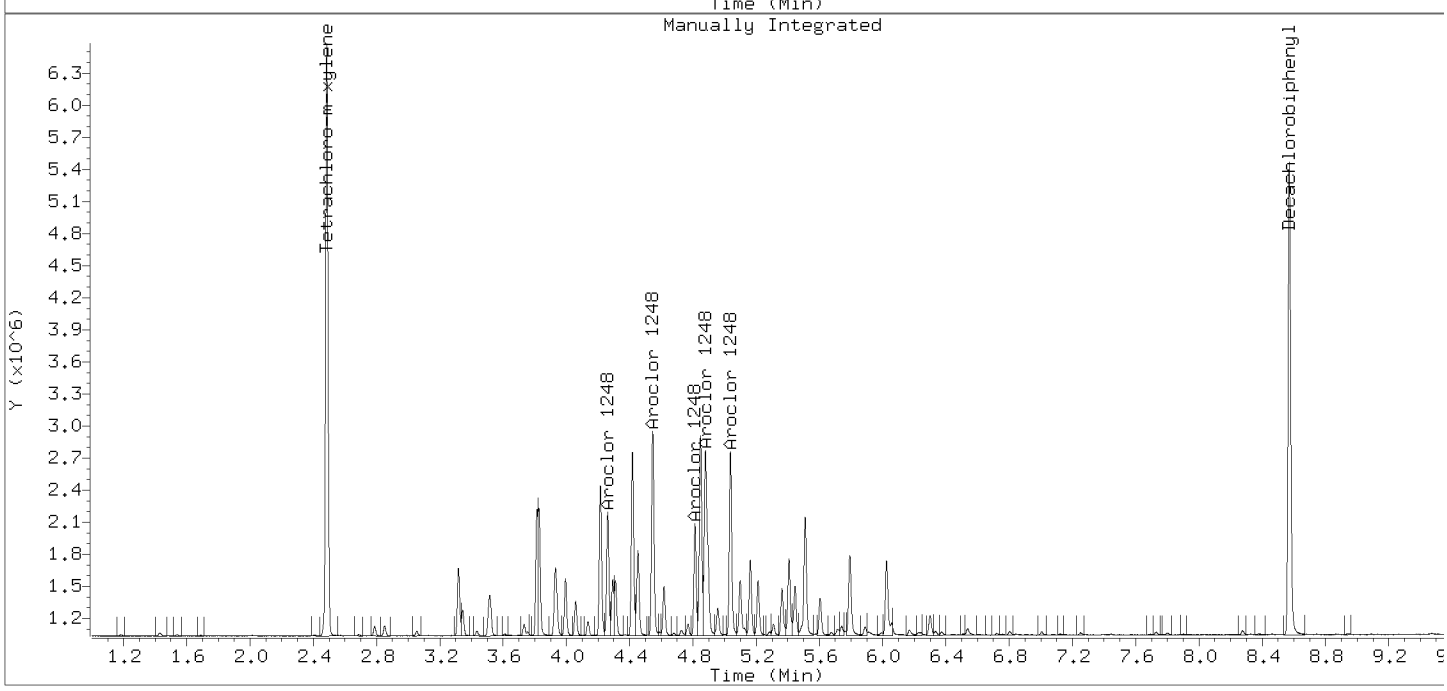
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Date : 06-MAR-2018 20:44
Client ID: 1248-ICV
Sample Info: 1248-ICV, 185563:1

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

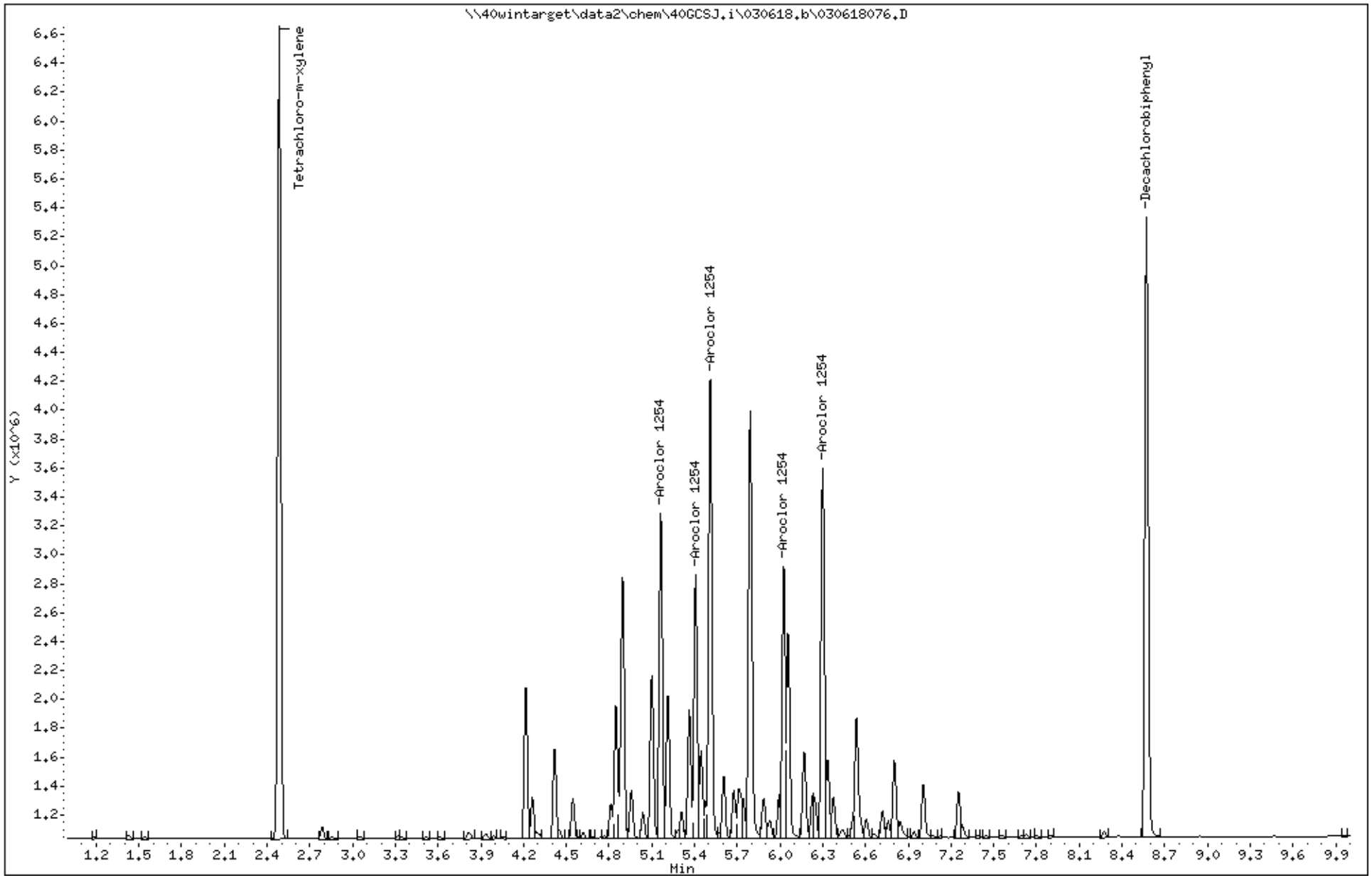
M - Compound response manually integrated.

Review Codes Legend

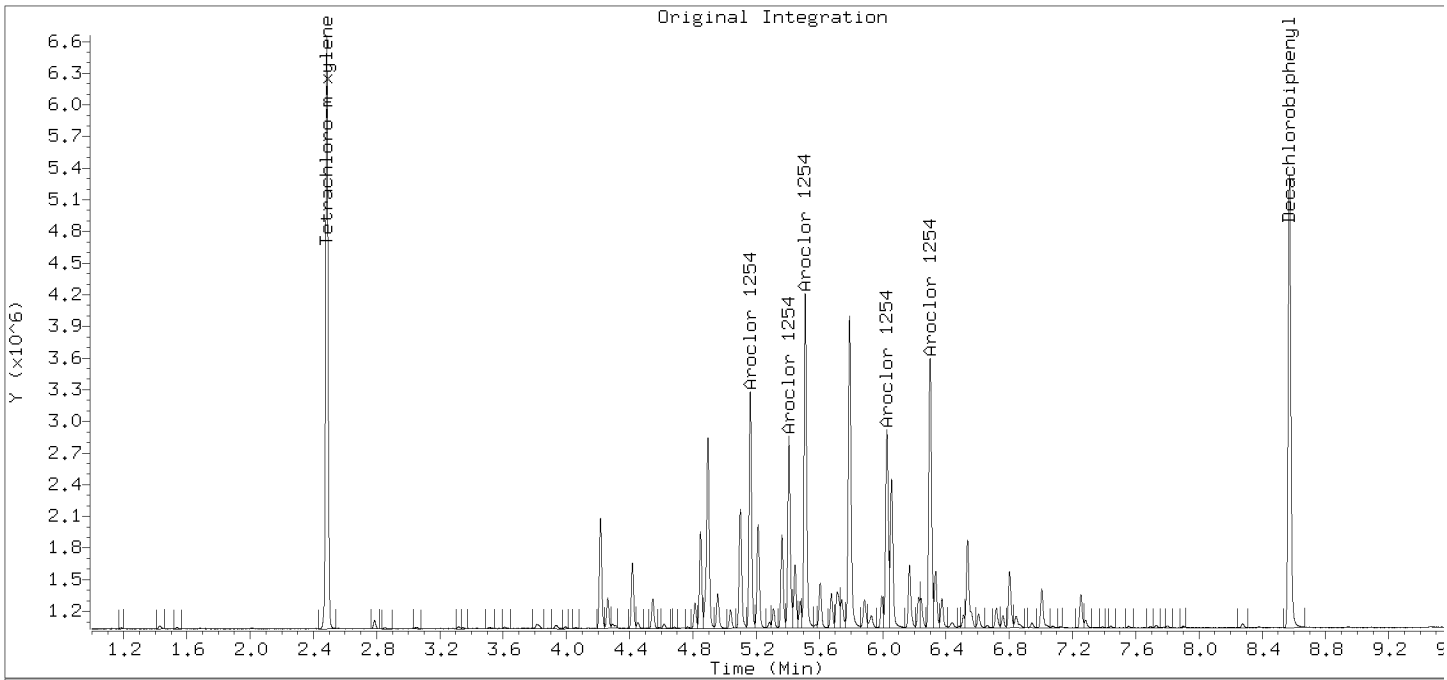
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

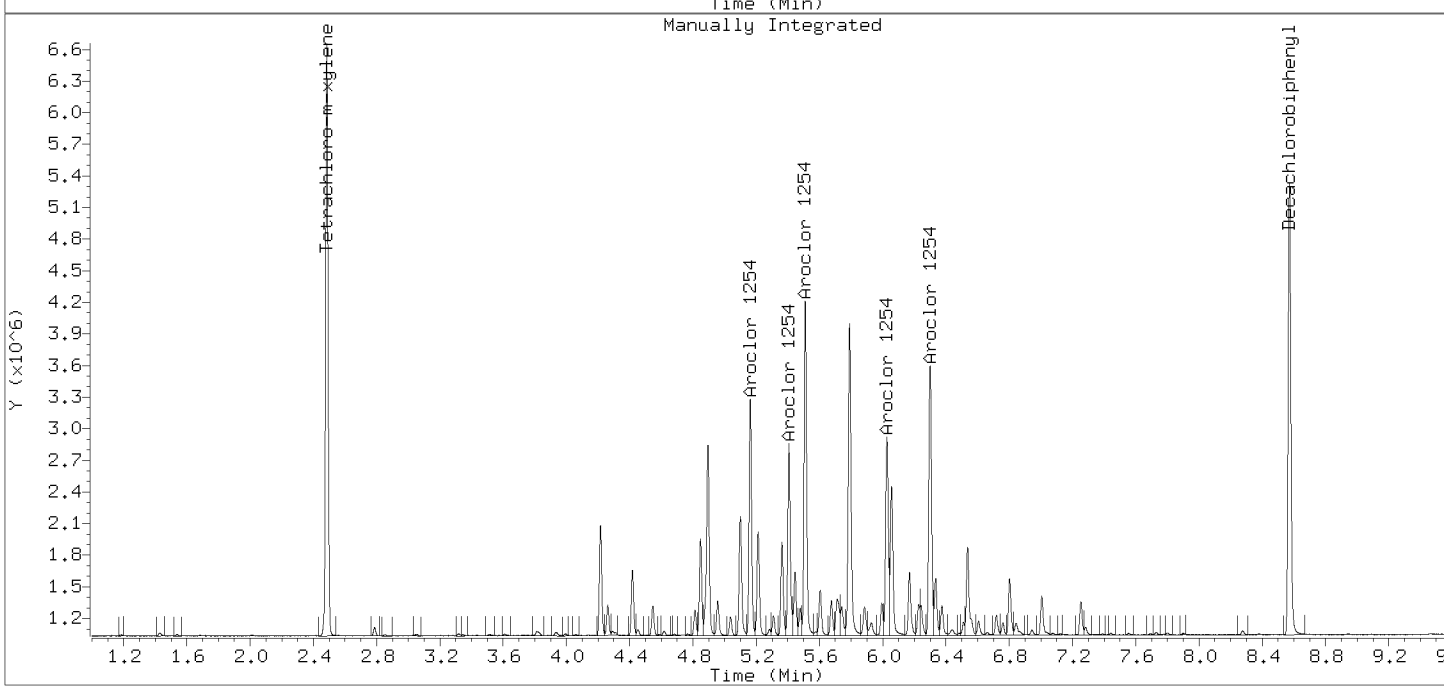
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D
Date : 06-MAR-2018 21:00
Client ID: 1254-ICV
Sample Info: 1254-ICV, 185564:1

Instrument: 40GCSJ.i
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.

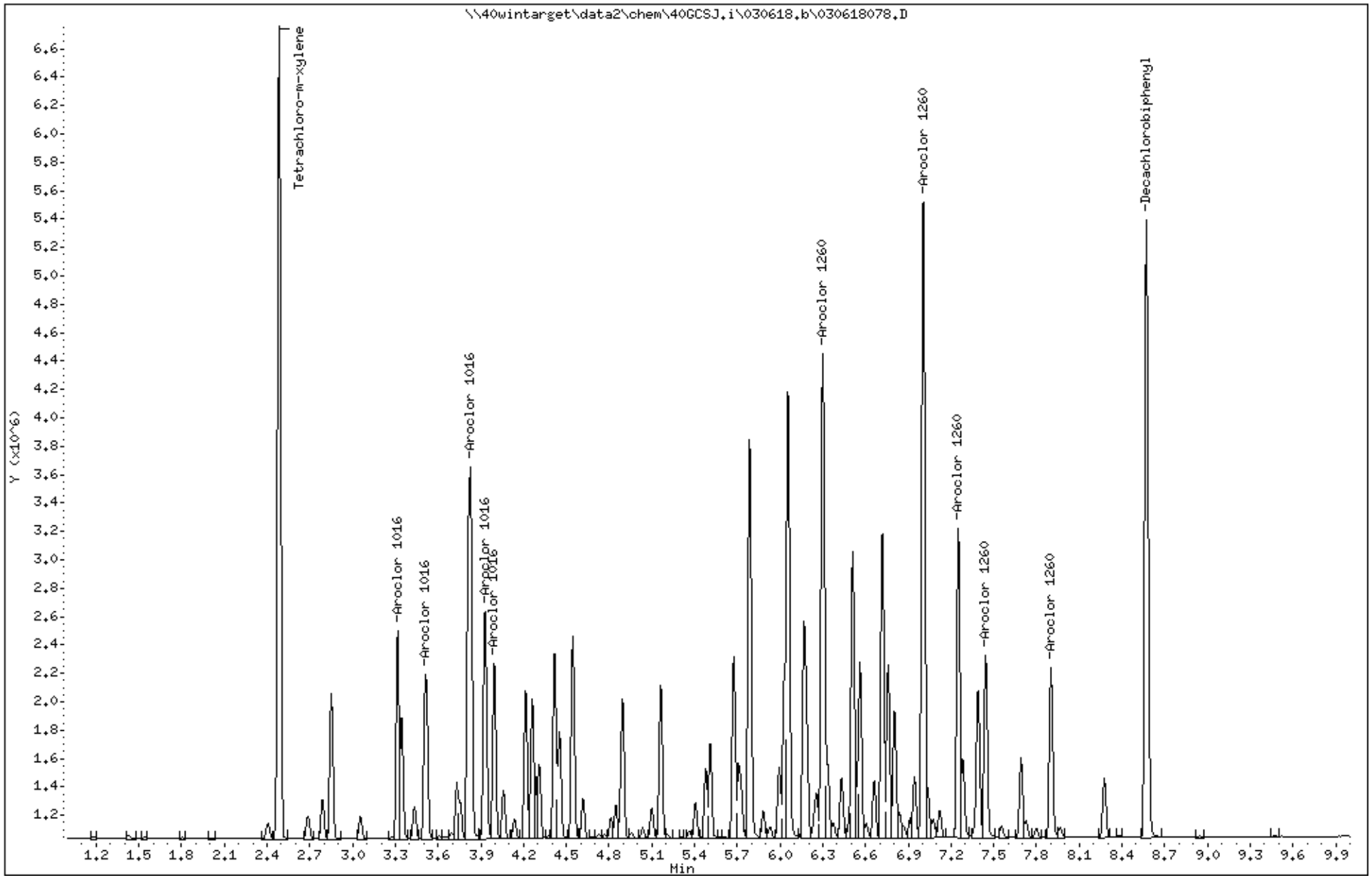
QC Flag Legend

Review Codes Legend

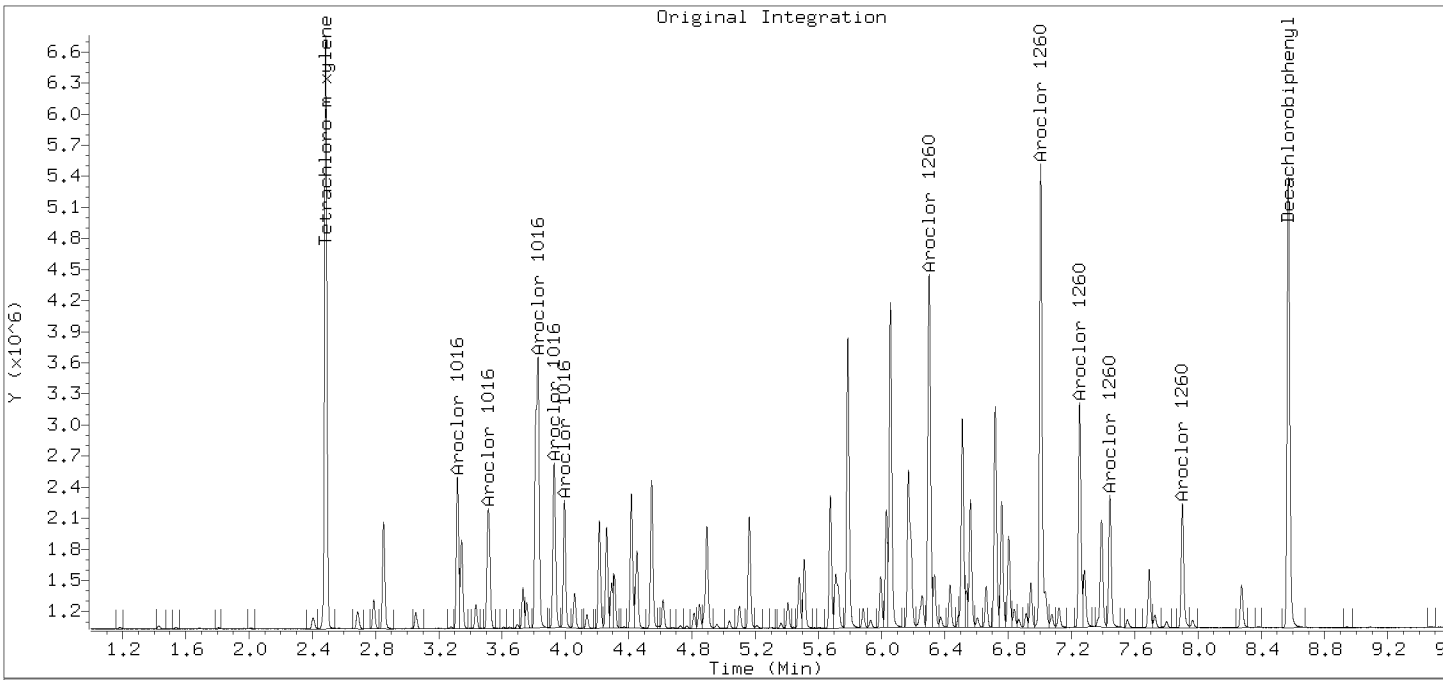
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

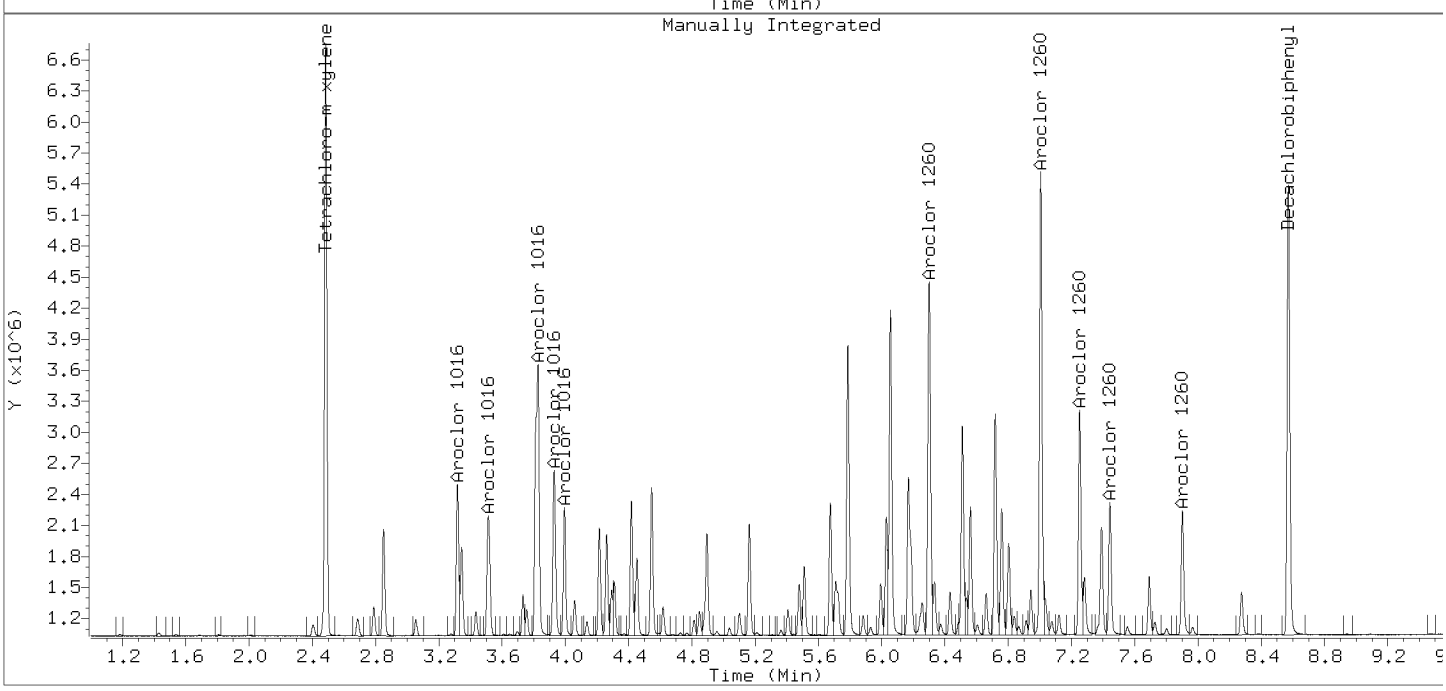
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

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\041018.b\041018005.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 10-APR-2018 13:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 12-Apr-2018 13:49 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 5 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	73265	56725	0.774	0.08		
1.429	36220	29509	0.815	0.04		
1.539	18797	13083	0.696	0.02		
1.685	17737	14520	0.819	0.02		
1.805	19386	13383	0.690	0.02		
2.012	46598	32127	0.689	0.05		
2.406	143729	108445	0.755	0.17		
2.486	6273030	5695465	0.908	7.97	$ 2 Tetrachloro-m-xylene	
2.688	207453	162431	0.783	0.24		
2.790	305093	276715	0.907	0.36		
2.851	1104614	994637	0.900	1.31		
3.030	18923	21529	1.138	0.02		
3.056	169619	153908	0.907	0.20		
3.277	24074	18043	0.749	0.02		
3.318	1547527	1425659	0.921	1.83	5 Aroclor 1016	BA
3.344	892204	831643	0.932	1.06		
3.435	247586	222171	0.897	0.29		
3.514	1553384	1113115	0.717	1.84	5 Aroclor 1016	BA
3.612	19295	16923	0.877	0.02		
3.649	26566	17947	0.676	0.03		
3.696	42078	39973	0.950	0.04		
3.732	385847	367731	0.953	0.45		
3.756	257836	238351	0.924	0.30		
3.827	4254835	2462242	0.579	5.05	5 Aroclor 1016	BA
3.929	1831656	1474341	0.805	2.17	5 Aroclor 1016	BA
3.994	1237931	1163041	0.940	1.47	5 Aroclor 1016	BA
4.058	375851	337567	0.898	0.44		
4.137	146383	131686	0.900	0.17		
4.215	1122473	1054126	0.939	1.33		
4.262	999079	931911	0.933	1.18		
4.293	420376	429175	1.021	0.49		
4.311	521466	480124	0.921	0.61		
4.371	30667	23488	0.766	0.03		
4.418	1382984	1265207	0.915	1.64		
4.452	974183	762947	0.783	1.15		
4.546	1738105	1564467	0.900	2.06		
4.617	397655	360454	0.906	0.47		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.678	25243	21257	0.842	0.02	
4.727	64551	53213	0.824	0.07	
4.768	55886	51295	0.918	0.06	
4.813	304956	286009	0.938	0.36	
4.848	467031	431524	0.924	0.55	
4.895	1615513	1194556	0.739	1.91	
4.957	108607	84956	0.782	0.12	
5.038	91165	76992	0.845	0.10	
5.100	344333	296833	0.862	0.40	
5.162	1302116	1214914	0.933	1.54	
5.213	66715	52532	0.787	0.07	
5.310	18863	15765	0.836	0.02	
5.363	90158	79129	0.878	0.10	
5.407	374686	323356	0.863	0.44	
5.477	538194	502615	0.934	0.63	
5.509	883332	789840	0.894	1.04	
5.605	20176	16478	0.817	0.02	
5.674	1351904	1266713	0.937	1.60	
5.709	982566	543557	0.553	1.16	
5.786	3288911	2810529	0.855	3.90	
5.883	229587	206250	0.898	0.27	
5.927	110378	86383	0.783	0.13	
5.994	541639	526200	0.971	0.64	
6.030	1256894	1212321	0.965	1.49	
6.056	3558455	3022227	0.849	4.22	
6.168	2347757	1438009	0.613	2.78	
6.256	547306	317158	0.579	0.65	
6.300	4226659	3336079	0.789	5.02	8 Aroclor 1260
6.332	627695	543238	0.865	0.74	
6.373	163395	125562	0.768	0.19	
6.432	469365	392992	0.837	0.55	
6.484	91675	122823	1.340	0.10	
6.510	2172796	1948283	0.897	2.58	
6.534	389580	410836	1.055	0.46	
6.561	1335619	1179396	0.883	1.58	
6.604	135075	106607	0.789	0.16	
6.660	423537	372996	0.881	0.50	
6.718	2308254	2064014	0.894	2.74	
6.757	1305605	1120104	0.858	1.55	
6.803	1023926	884872	0.864	1.21	
6.838	206769	171542	0.830	0.24	
6.867	100714	86649	0.860	0.11	
6.913	148827	141818	0.953	0.17	
6.943	445813	409500	0.919	0.52	
7.004	4779608	4307674	0.901	5.67	8 Aroclor 1260
7.034	330949	325819	0.984	0.39	
7.076	153287	122188	0.797	0.18	
7.121	243031	194701	0.801	0.28	
7.251	2261363	2016215	0.892	2.68	8 Aroclor 1260
7.281	665881	533715	0.802	0.79	
7.389	1208933	984290	0.814	1.43	
7.442	1448932	1237461	0.854	1.72	8 Aroclor 1260
7.552	100543	73200	0.728	0.11	
7.689	573413	495446	0.864	0.68	
7.727	101650	83293	0.819	0.12	
7.775	17090	17975	1.052	0.02	
7.800	89314	68549	0.768	0.10	

Data File: ...wintarget\data2\chem\40GCSJ.i\041018.b\041018005.D Page 3
Report Date: 12-Apr-2018 13:49

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.900	1252451	1053755	0.841	1.48	8 Aroclor 1260
7.963	94251	70673	0.750	0.11	
8.274	348430	292770	0.840	0.41	
8.375	26897	19152	0.712	0.03	
8.570	5413443	4468338	0.825	6.43	$ 12 Decachlorobiphenyl
9.460	12331	10188	0.826	0.01	
9.956	10653	9121	0.856	0.01	
	84159180	71027254		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018005.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 10-APR-2018 13:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 12-Apr-2018 13:49 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 5 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	6273029	0.05000	0.051			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1547526	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1553383	0.50000	0.50	0.00- 20.00	100.38	BA
3.826	3.826	0.000	4254835	0.50000	0.48	0.00- 20.00	274.94	BA
3.928	3.929	-0.001	1831655	0.50000	0.48	0.00- 20.00	118.36	BA
3.994	3.994	0.000	1237930	0.50000	0.48	0.00- 20.00	79.99	BA
Average of Peak Amounts =					0.48800			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4226659	0.50000	0.48	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	4779608	0.50000	0.48	0.00- 20.00	113.08	BA
7.251	7.251	0.000	2261363	0.50000	0.47	0.00- 20.00	53.50	BA
7.442	7.443	-0.001	1448932	0.50000	0.50	0.00- 20.00	34.28	BA
7.899	7.901	-0.002	1252450	0.50000	0.47	0.00- 20.00	29.63	BA
Average of Peak Amounts =					0.48000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5413443	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\041018.b\041018005.D

Date : 10-APR-2018 13:35

Client ID: 1660-CCV

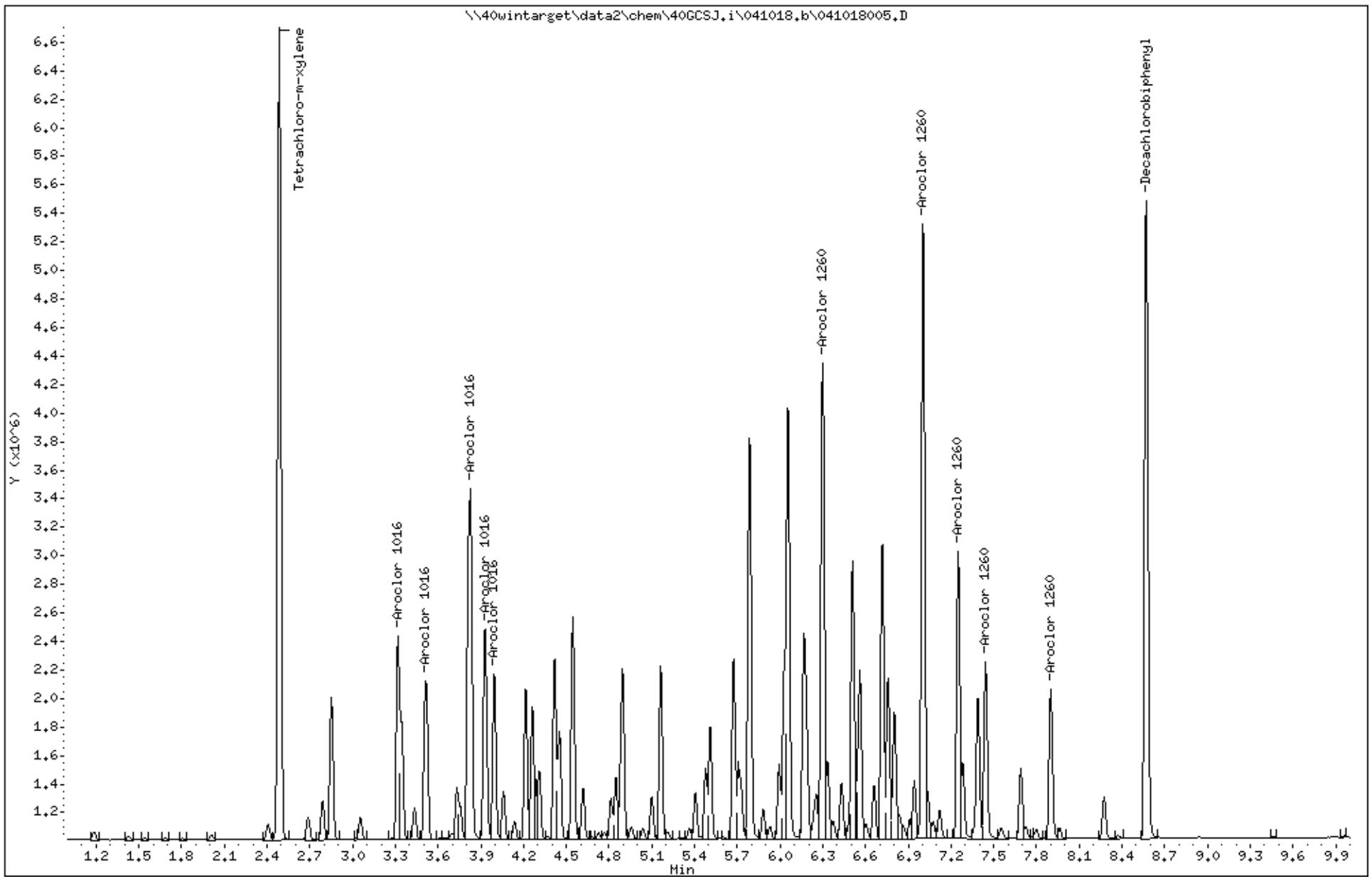
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

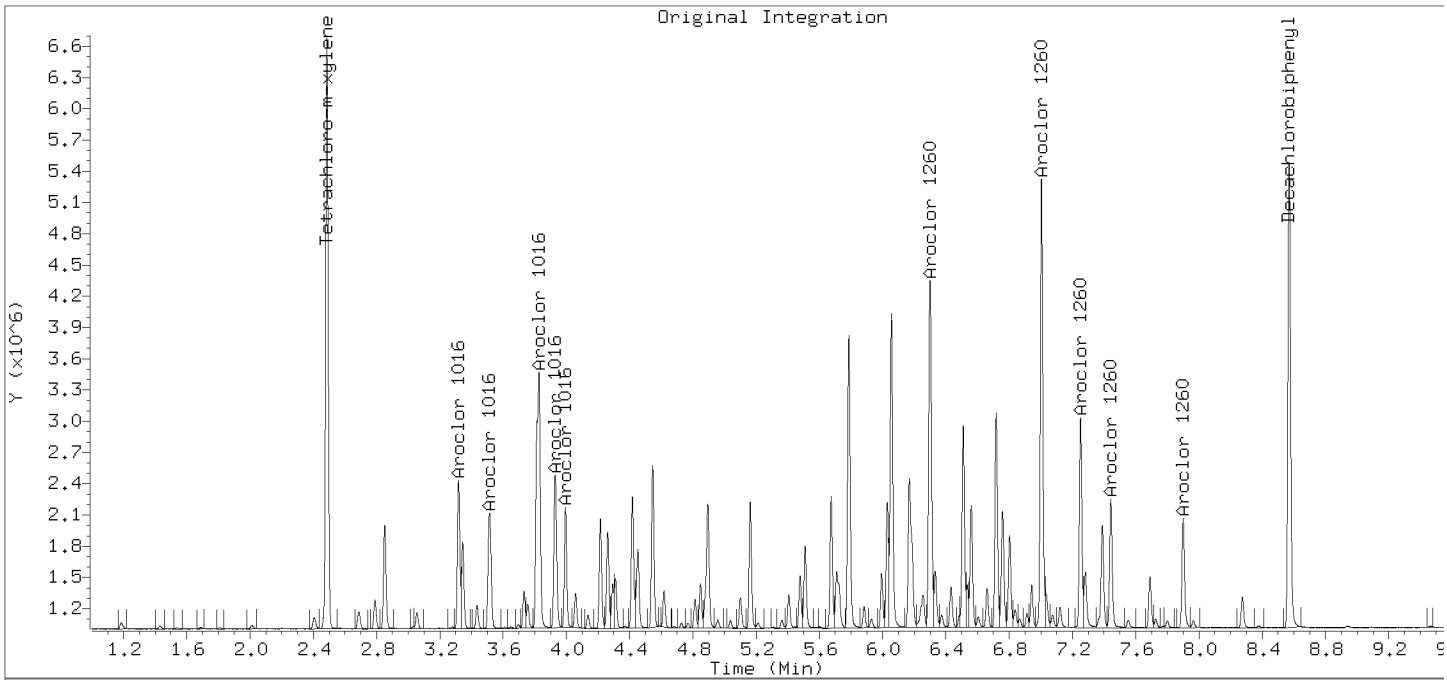
Operator: BLM

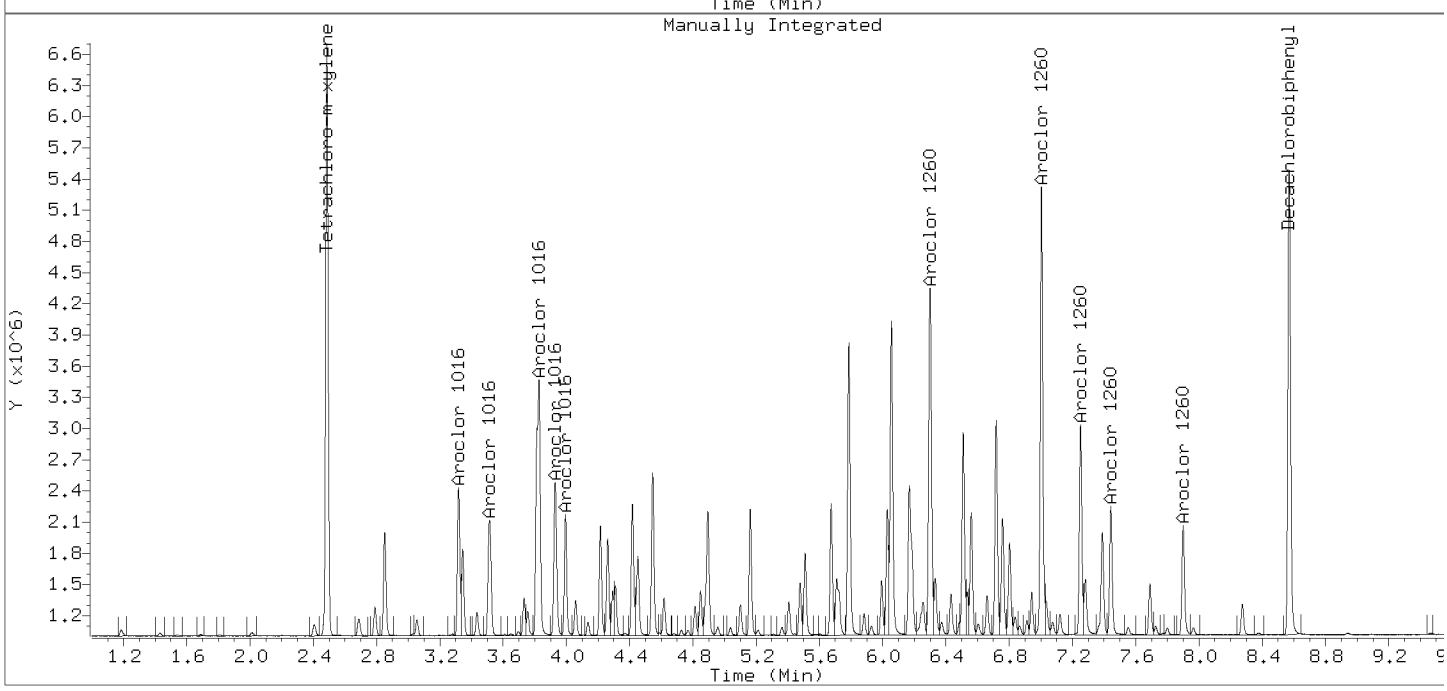
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018005.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 10-APR-2018 13:35 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1537914	1547526	BA
Aroclor 1016	1537914	1547526	BA
Aroclor 1016	1537914	1547526	BA
Aroclor 1016	1537914	1547526	BA
Aroclor 1016	1537914	1547526	BA
Aroclor 1260	4204628	4226659	BA
Aroclor 1260	4204628	4226659	BA
Aroclor 1260	4204628	4226659	BA
Aroclor 1260	4204628	4226659	BA
Aroclor 1260	4204628	4226659	BA
Tetrachloro-m-xylene	6273029	6273029	
Decachlorobiphenyl	5413443	5413443	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 10-APR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 12-Apr-2018 13:49 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
1.184	59194	40776	0.689	0.33			
1.432	42038	29812	0.709	0.23			
1.537	20269	15803	0.780	0.11			
1.687	18990	14956	0.788	0.10			
1.806	523193	411969	0.787	2.93		1 Aroclor 1221	BA
2.011	39831	25772	0.647	0.22			
2.196	164968	130993	0.794	0.92			
2.408	273729	193651	0.707	1.53		1 Aroclor 1221	BA
2.485	6174919	5590531	0.905	34.96	$	2 Tetrachloro-m-xylene	BA
2.689	697739	563510	0.808	3.91		1 Aroclor 1221	BA
2.790	551750	500979	0.908	3.09		1 Aroclor 1221	BA
2.852	1692236	1438759	0.850	9.50		1 Aroclor 1221	BA
3.030	17322	17460	1.008	0.09			
3.055	33815	27925	0.826	0.18			
3.280	114871	88176	0.768	0.64			
3.324	392976	218108	0.555	2.20			
3.436	34733	30833	0.888	0.19			
3.512	142838	104709	0.733	0.80			
3.608	16096	16584	1.030	0.09			
3.731	43199	42698	0.988	0.24			
3.757	45430	40489	0.891	0.25			
3.827	345026	198190	0.574	1.93			
3.929	168997	135200	0.800	0.94			
3.994	114484	100379	0.877	0.64			
4.056	26022	21839	0.839	0.14			
4.215	34537	33787	0.978	0.19			
4.260	27677	29529	1.067	0.15			
4.293	14442	10367	0.718	0.08			
4.416	42894	39578	0.923	0.24			
4.449	40504	28956	0.715	0.22			
4.546	53001	48200	0.909	0.29			
4.619	16685	13062	0.783	0.09			
4.813	23611	19559	0.828	0.13			
4.846	34335	31216	0.909	0.19			
4.880	57870	40390	0.698	0.32			
5.035	36985	30361	0.821	0.20			
5.096	15002	9562	0.637	0.08			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.209	9478	8397	0.886	0.05	
5.506	11779	10381	0.881	0.06	
5.699	13056	11034	0.845	0.07	
5.791	11560	8144	0.704	0.06	
6.448	16730	10619	0.635	0.09	
7.135	23751	13201	0.556	0.13	
7.727	25022	21040	0.841	0.14	
7.774	12264	10992	0.896	0.06	
7.799	19150	17446	0.911	0.10	
8.273	54002	41171	0.762	0.30	
8.382	17959	15437	0.860	0.10	
8.570	5390993	4413964	0.819	30.28	$ 12 Decachlorobiphenyl
8.937	11199	9852	0.880	0.06	
9.467	16749	12790	0.764	0.09	
9.959	13634	12000	0.880	0.07	
	17799536	14951136		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 10-APR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 12-Apr-2018 13:49 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			
2.485	2.484	0.001	6174918	0.05000	0.050		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.805	1.804	0.001	523193	0.50000	0.50	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	273728	0.50000	0.50	0.00- 20.00	52.32	BA
2.688	2.688	0.000	697738	0.50000	0.50	0.00- 20.00	133.36	BA
2.789	2.789	0.000	551749	0.50000	0.50	0.00- 20.00	105.46	BA
2.851	2.851	0.000	1692236	0.50000	0.52	0.00- 20.00	323.44	BA
Average of Peak Amounts =					0.50400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5390992	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\041018.b\041018016.D

Date : 10-APR-2018 16:29

Client ID: 1221-CCV

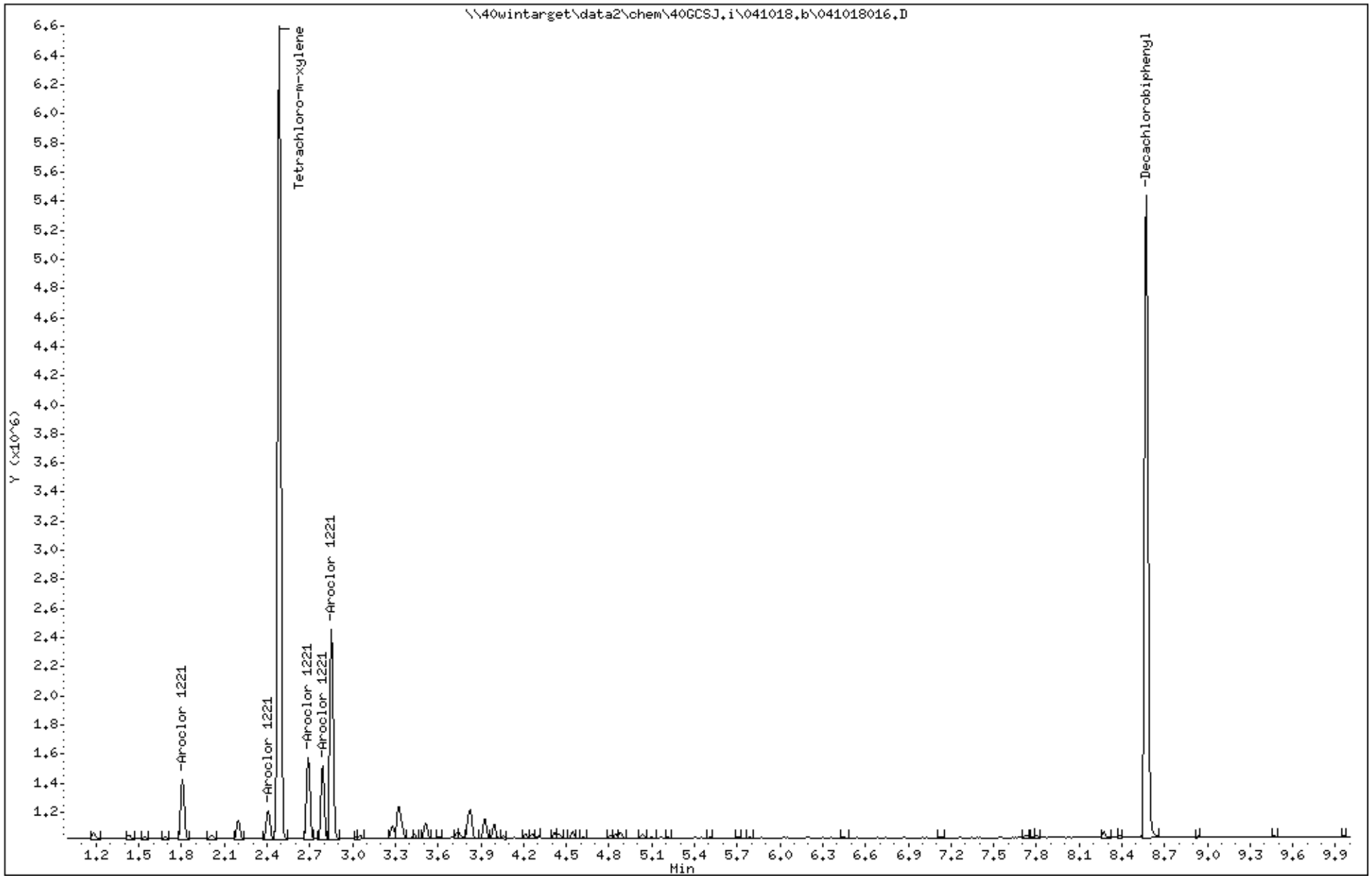
Instrument: 40GCSJ.i

Sample Info: 1221-CCV, 185538:1

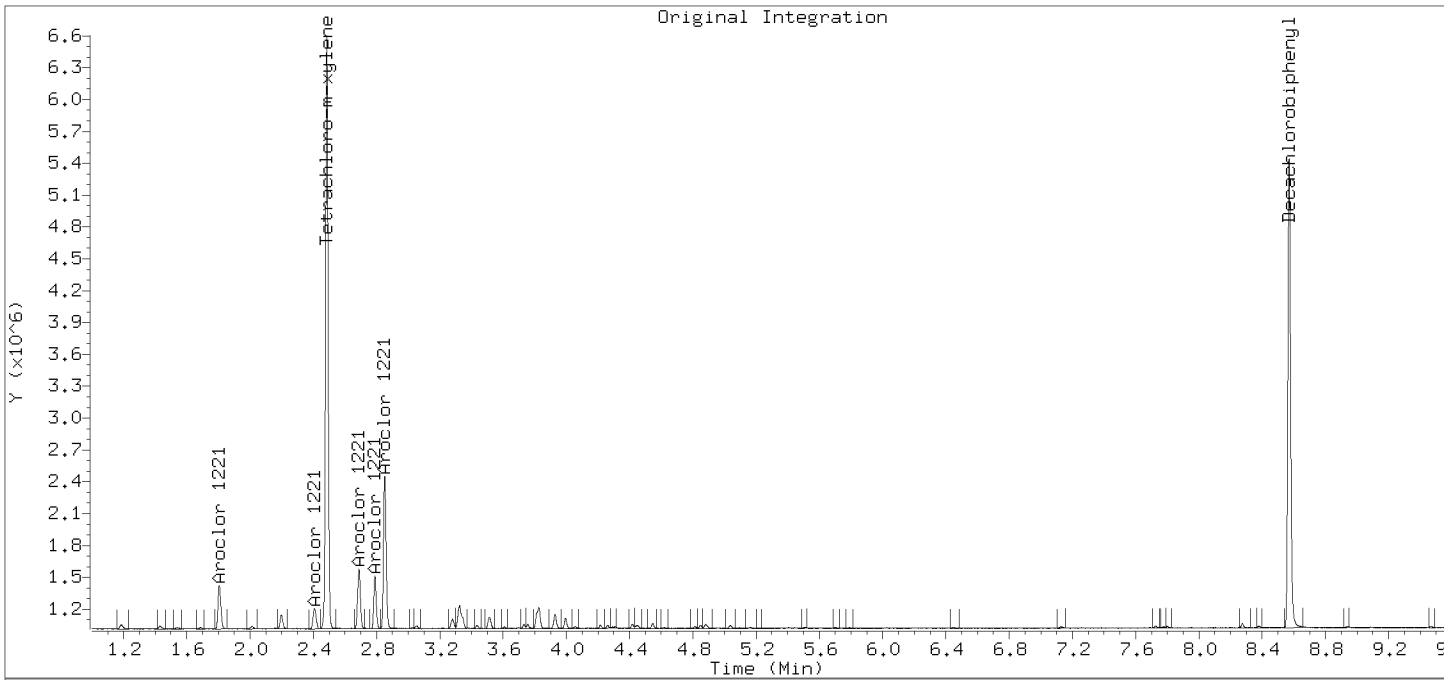
Operator: BLM

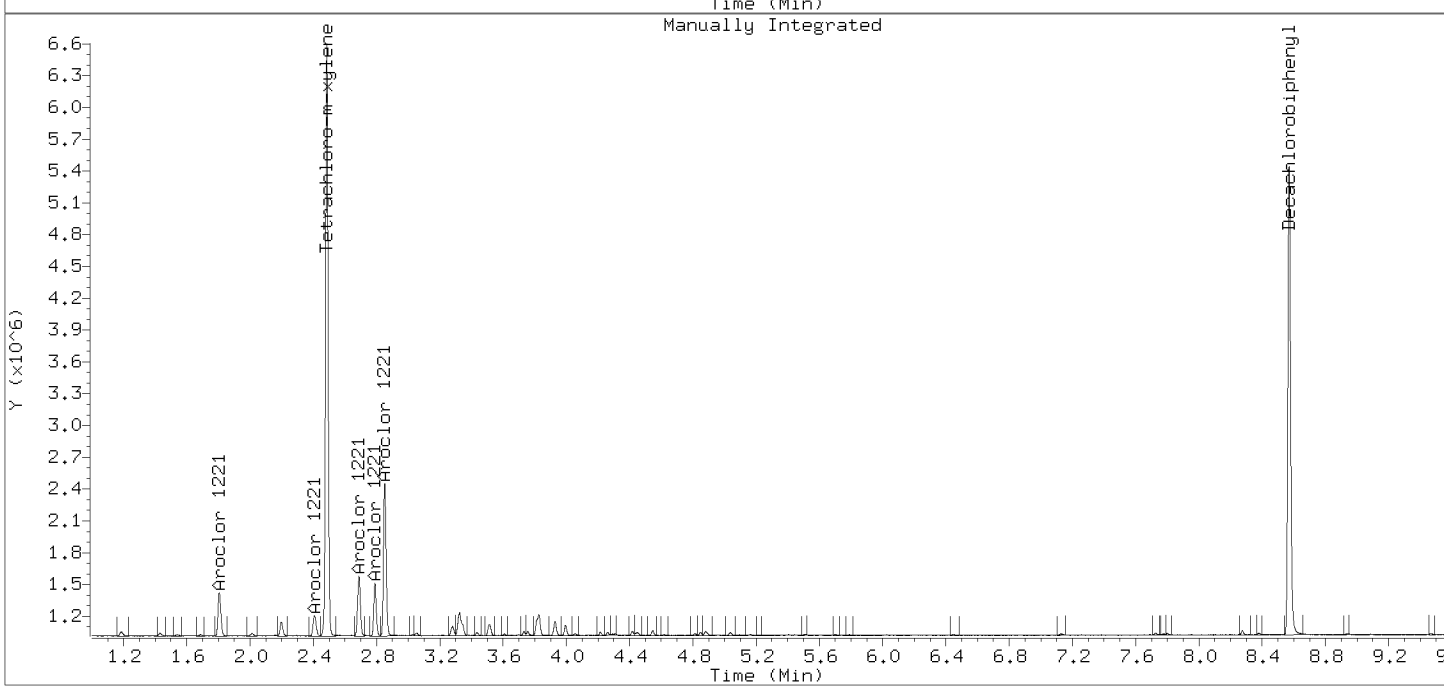
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018016.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 10-APR-2018 16:29 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	519709	523193	BA
Aroclor 1221	519709	523193	BA
Aroclor 1221	519709	523193	BA
Aroclor 1221	519709	523193	BA
Aroclor 1221	519709	523193	BA
Tetrachloro-m-xylene	6158821	6174918	BA
Decachlorobiphenyl	5390992	5390992	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 10-APR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 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
1.182	37854	26493	0.700	0.13		
1.428	36502	31369	0.859	0.13		
1.541	18337	13278	0.724	0.06		
1.682	14585	11900	0.816	0.05		
1.804	306633	259866	0.847	1.12		
2.007	24279	14296	0.589	0.08		
2.197	83832	74872	0.893	0.30		
2.407	198784	146730	0.738	0.72		
2.484	5940254	5589667	0.941	22.07	$ 2 Tetrachloro-m-xylene	
2.688	446112	361477	0.810	1.63		
2.788	407371	375077	0.921	1.48		
2.850	1333721	1167621	0.875	4.87	4 Aroclor 1232	BA
3.053	87858	76901	0.875	0.32		
3.280	75026	54386	0.725	0.27		
3.317	761993	674789	0.886	2.78		
3.342	422534	382353	0.905	1.54		
3.434	121439	106547	0.877	0.44		
3.514	691523	493485	0.714	2.52	4 Aroclor 1232	BA
3.608	23499	18858	0.803	0.08		
3.646	15741	10842	0.689	0.05		
3.696	23707	22739	0.959	0.08		
3.731	176775	174987	0.990	0.64		
3.756	137994	120152	0.871	0.50		
3.826	1984568	1140998	0.575	7.25	4 Aroclor 1232	BA
3.928	852402	700721	0.822	3.11	4 Aroclor 1232	BA
3.993	556499	513643	0.923	2.03	4 Aroclor 1232	BA
4.058	153800	133829	0.870	0.56		
4.135	61965	53029	0.856	0.22		
4.214	408726	373634	0.914	1.49		
4.261	394493	355104	0.900	1.44		
4.293	156288	170271	1.089	0.57		
4.309	226655	191517	0.845	0.82		
4.369	17679	13729	0.777	0.06		
4.416	554417	516318	0.931	2.02		
4.450	448510	316663	0.706	1.63		
4.545	714586	640980	0.897	2.61		
4.616	171993	155745	0.906	0.62		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.676	13876	11492	0.828	0.05	
4.725	36960	29918	0.809	0.13	
4.769	39886	35144	0.881	0.14	
4.812	317789	290571	0.914	1.16	
4.848	554706	512255	0.923	2.02	
4.879	724787	535072	0.738	2.64	
4.957	82875	59262	0.715	0.30	
5.037	601961	537527	0.893	2.19	
5.098	118660	86202	0.726	0.43	
5.161	132038	119862	0.908	0.48	
5.211	93368	80719	0.865	0.34	
5.309	23642	19398	0.820	0.08	
5.362	80789	68055	0.842	0.29	
5.406	143938	115387	0.802	0.52	
5.446	89862	73288	0.816	0.32	
5.510	236132	164868	0.698	0.86	
5.605	72392	58497	0.808	0.26	
5.672	13799	12724	0.922	0.05	
5.715	18964	13820	0.729	0.06	
5.739	18225	16297	0.894	0.06	
5.791	154195	111198	0.721	0.56	
5.887	16724	13719	0.820	0.06	
6.023	117836	96540	0.819	0.43	
6.054	38272	31575	0.825	0.13	
6.167	16981	12340	0.727	0.06	
6.297	39774	32275	0.811	0.14	
6.511	9991	10389	1.040	0.03	
6.718	16896	13291	0.787	0.06	
6.755	12127	8674	0.715	0.04	
7.004	33575	22775	0.678	0.12	
7.253	15548	10646	0.685	0.05	
7.727	26914	23680	0.880	0.09	
7.774	9803	8128	0.829	0.03	
7.801	21461	17600	0.820	0.07	
7.899	12382	7784	0.629	0.04	
8.275	54606	40784	0.747	0.19	
8.372	9723	8774	0.902	0.03	
8.571	5254551	4329601	0.824	19.20	$ 12 Decachlorobiphenyl
	27364942	23124997		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 10-APR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 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		
2.484	2.484	0.000	5940253	0.05000	0.048			
4 Aroclor 1232						CAS #: 1114-16-5		
2.850	2.851	-0.001	1333721	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	691523	0.50000	0.52	0.00- 20.00	51.85	BA
3.825	3.827	-0.002	1984568	0.50000	0.53	0.00- 20.00	148.80	BA
3.928	3.929	-0.001	852402	0.50000	0.53	0.00- 20.00	63.91	BA
3.993	3.995	-0.002	556499	0.50000	0.51	0.00- 20.00	41.73	BA
Average of Peak Amounts =					0.52400			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5254551	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\041018.b\041018028.D

Date : 10-APR-2018 19:39

Client ID: 1232-CCV

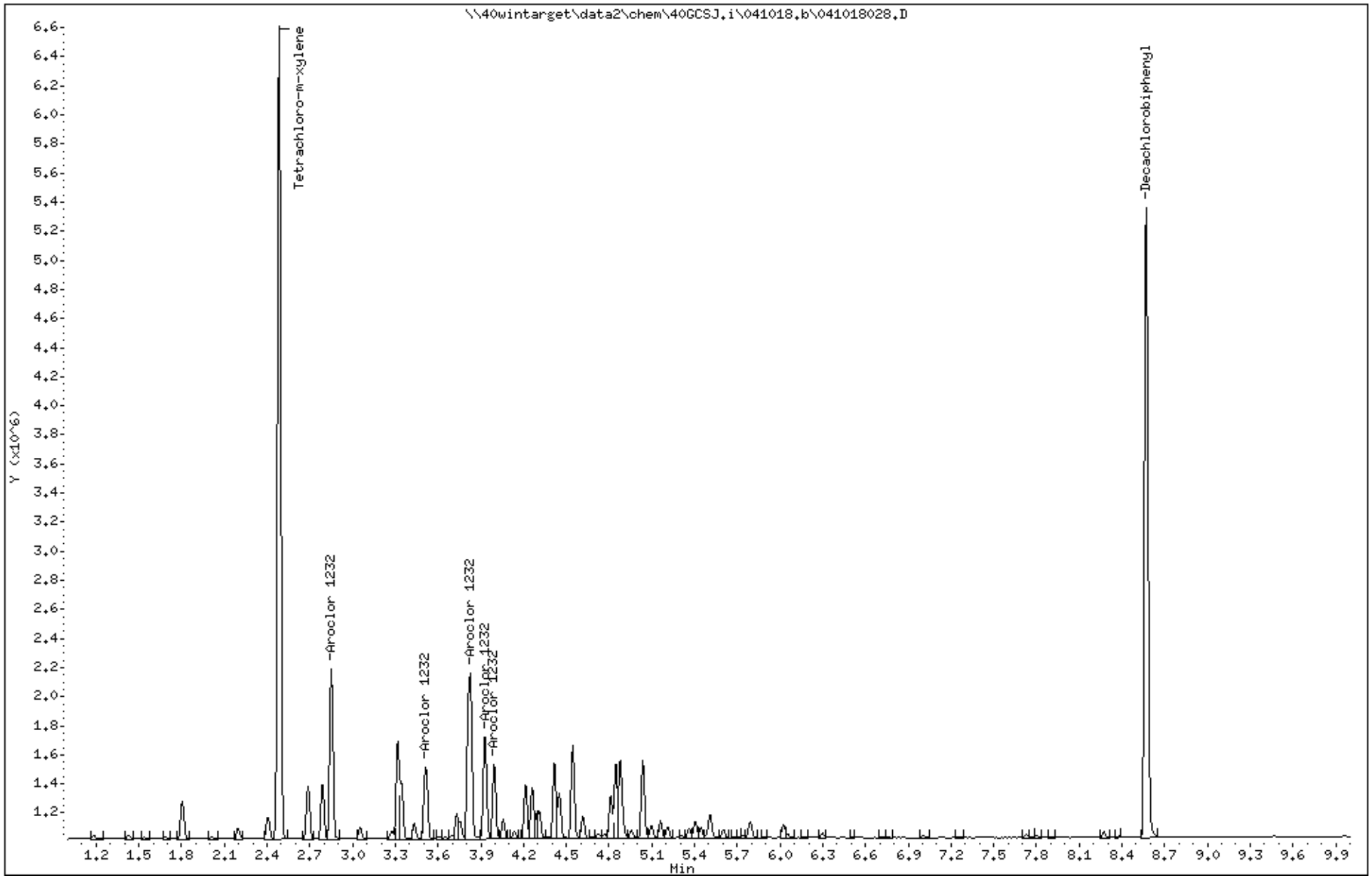
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

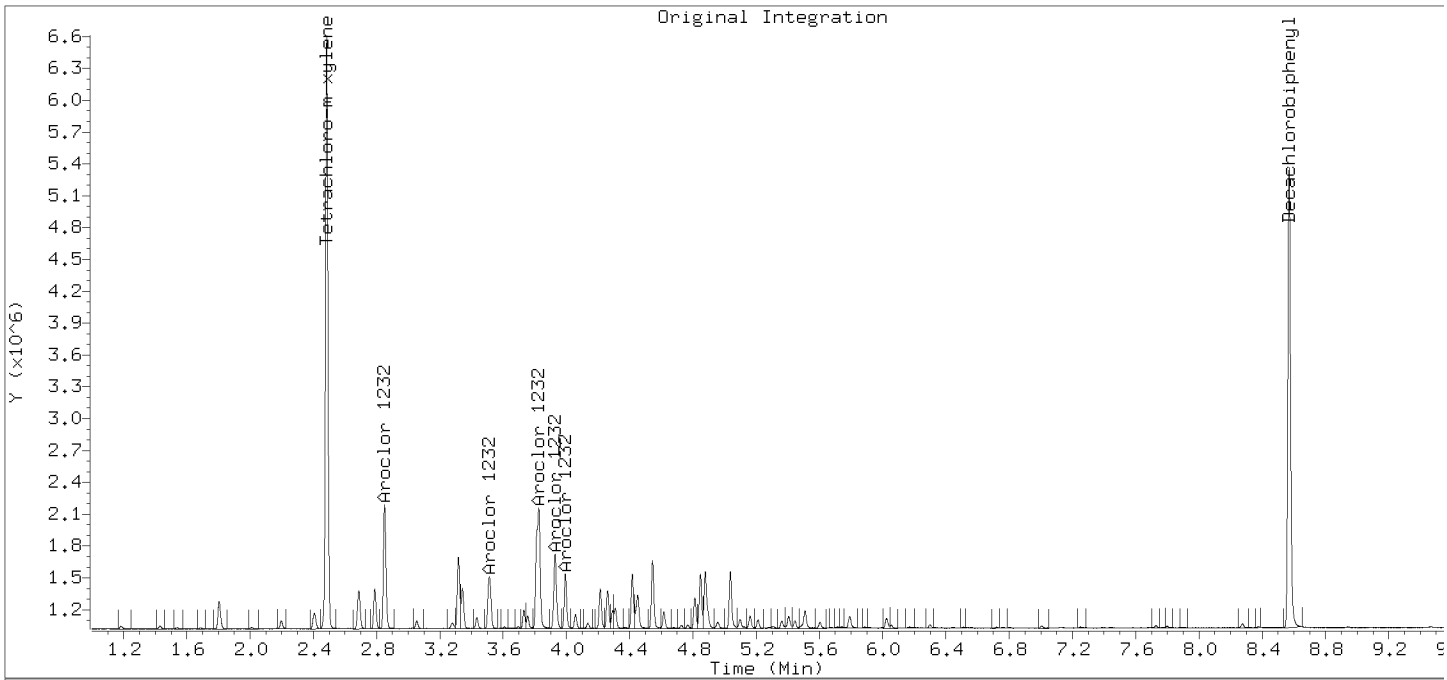
Operator: BLM

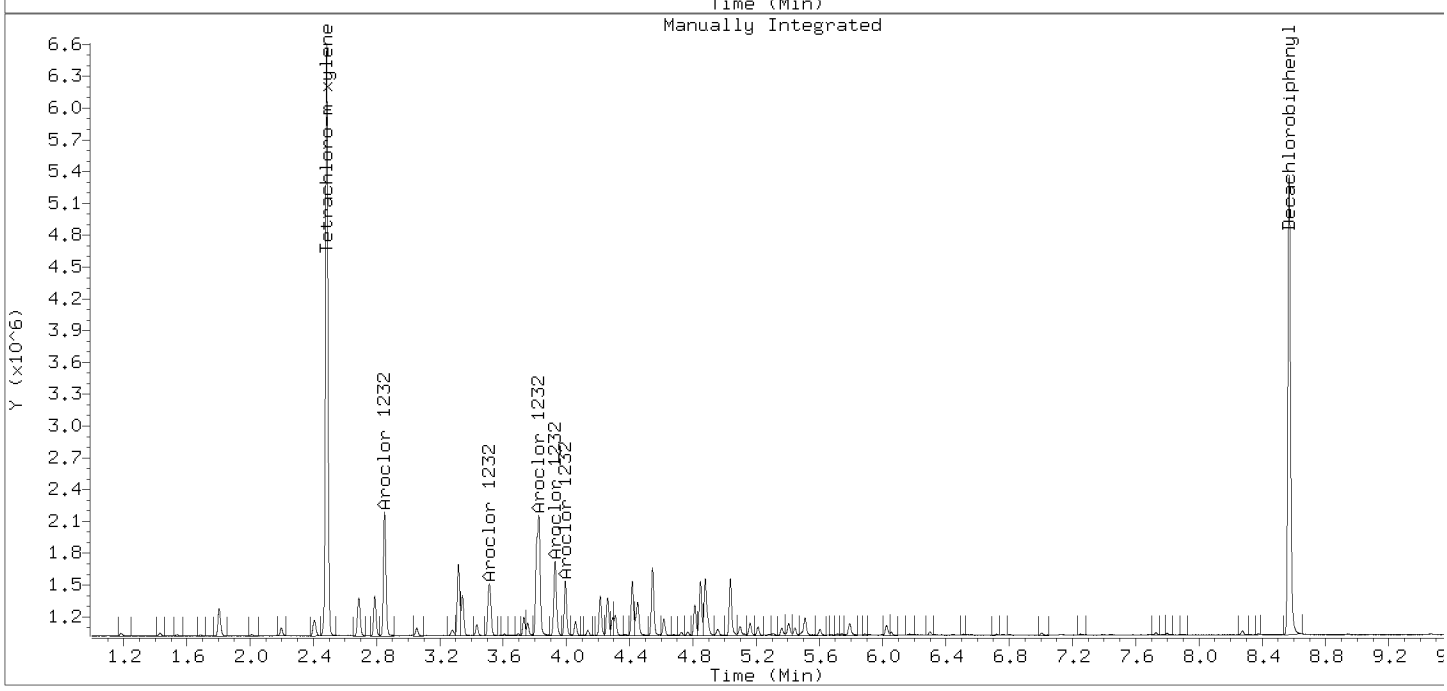
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018028.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 10-APR-2018 19:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1325427	1333721	BA
Aroclor 1232	1325427	1333721	BA
Aroclor 1232	1325427	1333721	BA
Aroclor 1232	1325427	1333721	BA
Aroclor 1232	1325427	1333721	BA
Tetrachloro-m-xylene	5940253	5940253	
Decachlorobiphenyl	5254551	5254551	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018040.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 10-APR-2018 22:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 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: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	51261	37733	0.736	0.12		
1.429	33865	30721	0.907	0.08		
1.534	20060	14201	0.708	0.04		
1.686	17924	16199	0.904	0.04		
1.805	18404	15749	0.856	0.04		
2.008	23091	17788	0.770	0.05		
2.405	127348	94496	0.742	0.31		
2.484	6221108	5872455	0.944	15.82	$ 2 Tetrachloro-m-xylene	
2.686	184630	149952	0.812	0.45		
2.788	280448	259495	0.925	0.69		
2.850	980713	901281	0.919	2.42		
3.054	154293	131491	0.852	0.38		
3.278	22434	18974	0.846	0.05		
3.317	1328878	1218671	0.917	3.28	3 Aroclor 1242	BA
3.343	762840	705721	0.925	1.88		
3.434	208844	193024	0.924	0.51		
3.513	1313172	940223	0.716	3.25	3 Aroclor 1242	BA
3.611	19756	18392	0.931	0.04		
3.645	21340	14929	0.700	0.05		
3.695	36473	35467	0.972	0.09		
3.731	332669	327171	0.983	0.82		
3.755	219390	199217	0.908	0.54		
3.826	3775082	2226689	0.590	9.34	3 Aroclor 1242	BA
3.929	1612592	1333199	0.827	3.99	3 Aroclor 1242	BA
3.994	1081179	1007723	0.932	2.67	3 Aroclor 1242	BA
4.058	318244	283881	0.892	0.78		
4.136	124255	107850	0.868	0.30		
4.214	885257	844169	0.954	2.19		
4.260	858526	808492	0.942	2.12		
4.292	342230	365676	1.069	0.84		
4.309	458921	406505	0.886	1.13		
4.368	25952	19632	0.756	0.06		
4.416	1175134	1112270	0.947	2.90		
4.451	921222	670567	0.728	2.28		
4.545	1522511	1385991	0.910	3.76		
4.617	348793	318164	0.912	0.86		
4.679	24943	20599	0.826	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.725	73608	62265	0.846	0.18	
4.767	81594	77316	0.948	0.20	
4.812	710381	665416	0.937	1.75	
4.847	1215339	1155904	0.951	3.00	
4.878	1601381	1140546	0.712	3.96	
4.957	175608	137696	0.784	0.43	
5.037	1295359	1154461	0.891	3.20	
5.099	286013	217951	0.762	0.70	
5.161	324785	294143	0.906	0.80	
5.211	246332	215355	0.874	0.60	
5.286	20967	18593	0.887	0.05	
5.309	54810	45682	0.833	0.13	
5.362	209107	177511	0.849	0.51	
5.406	350674	289517	0.826	0.86	
5.446	227608	192669	0.846	0.56	
5.510	568043	437721	0.771	1.40	
5.604	168563	146777	0.871	0.41	
5.673	13868	11820	0.852	0.03	
5.715	38522	27447	0.713	0.09	
5.741	45186	39555	0.875	0.11	
5.792	409894	316635	0.772	1.01	
5.889	62303	36660	0.588	0.15	
6.023	374890	267139	0.713	0.92	
6.169	15439	15847	1.026	0.03	
6.297	108333	87694	0.809	0.26	
6.335	26265	20230	0.770	0.06	
6.372	18351	13567	0.739	0.04	
6.446	10701	10579	0.989	0.02	
6.537	40781	31760	0.779	0.10	
6.799	23283	19475	0.836	0.05	
6.843	16016	10126	0.632	0.03	
7.130	19841	11751	0.592	0.04	
7.727	31593	24991	0.791	0.07	
7.778	12216	11804	0.966	0.03	
7.797	23904	17953	0.751	0.05	
8.275	54580	42152	0.772	0.13	
8.379	19062	14196	0.745	0.04	
8.570	5539564	4616000	0.833	13.71	$ 12 Decachlorobiphenyl
8.941	15579	11922	0.765	0.03	
9.962	15333	10856	0.708	0.03	
	40399459	34224439		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018040.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 10-APR-2018 22:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 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: 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	6221107	0.05000	0.050			
3 Aroclor 1242						CAS #: 53469-21-9		
3.316	3.318	-0.002	1328877	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1313172	0.50000	0.52	0.00- 20.00	98.82	BA
3.825	3.827	-0.002	3775081	0.50000	0.53	0.00- 20.00	284.08	BA
3.928	3.929	-0.001	1612591	0.50000	0.53	0.00- 20.00	121.35	BA
3.993	3.995	-0.002	1081178	0.50000	0.53	0.00- 20.00	81.36	BA
Average of Peak Amounts =					0.52600			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.569	8.571	-0.002	5539564	0.05000	0.050			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018040.D

Date : 10-APR-2018 22:49

Client ID: 1242-CCV

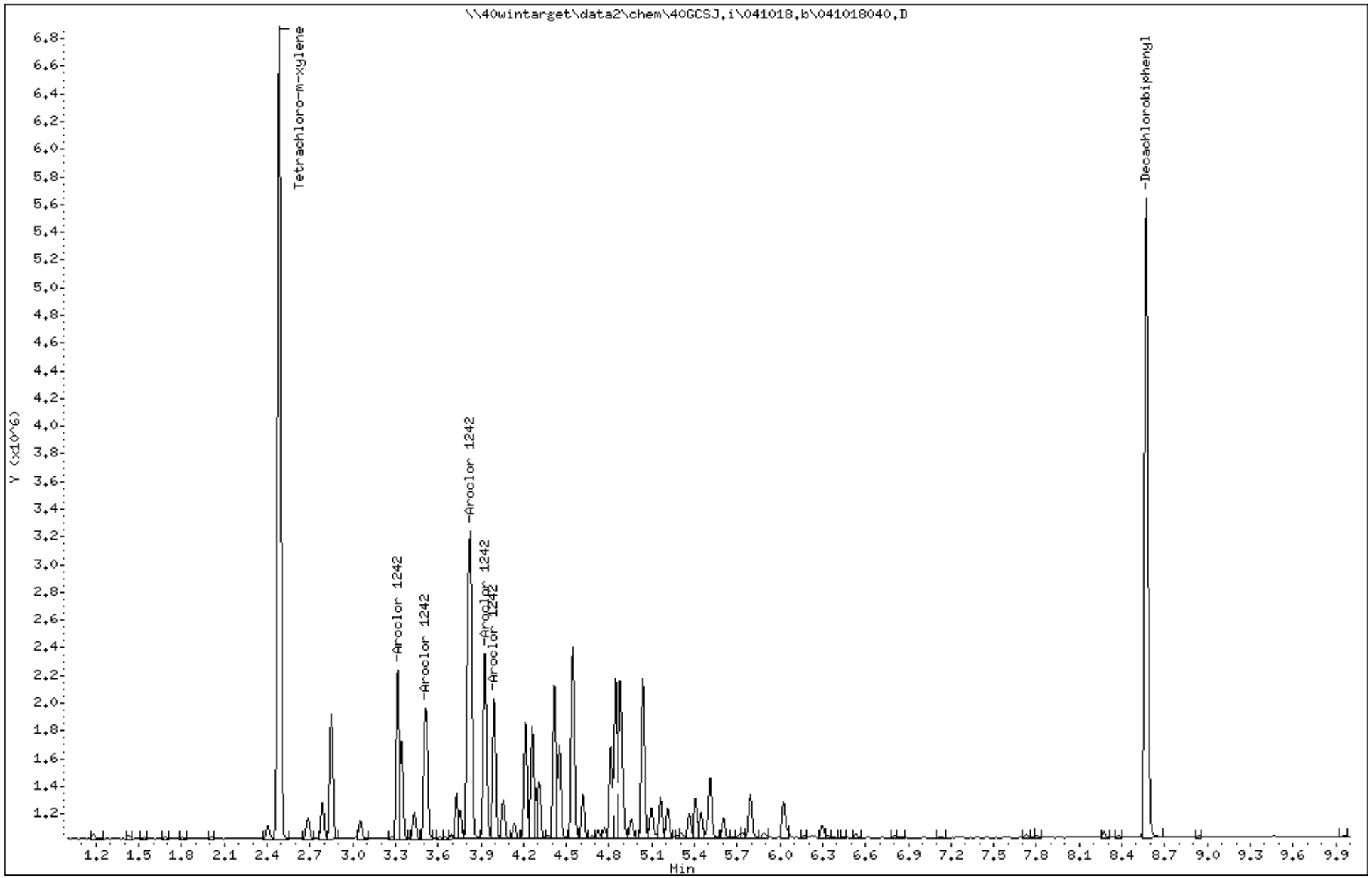
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

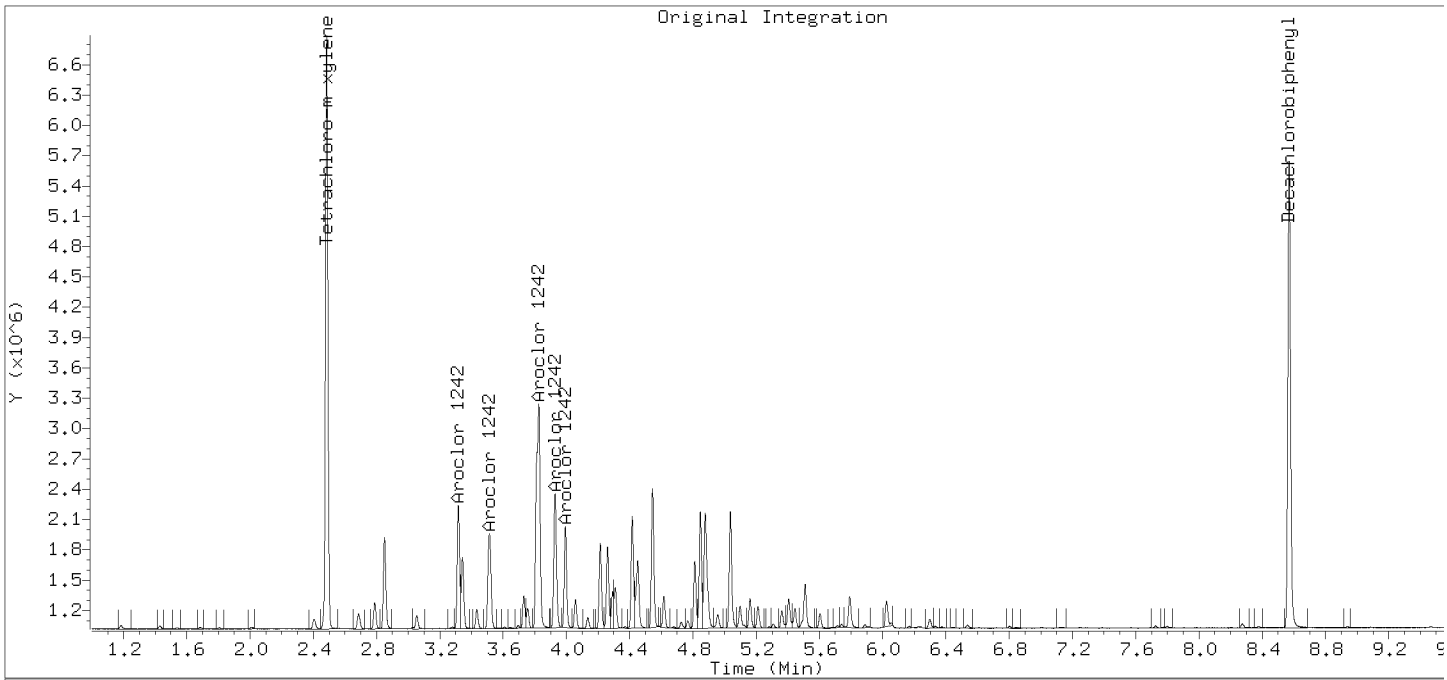
Operator: BLM

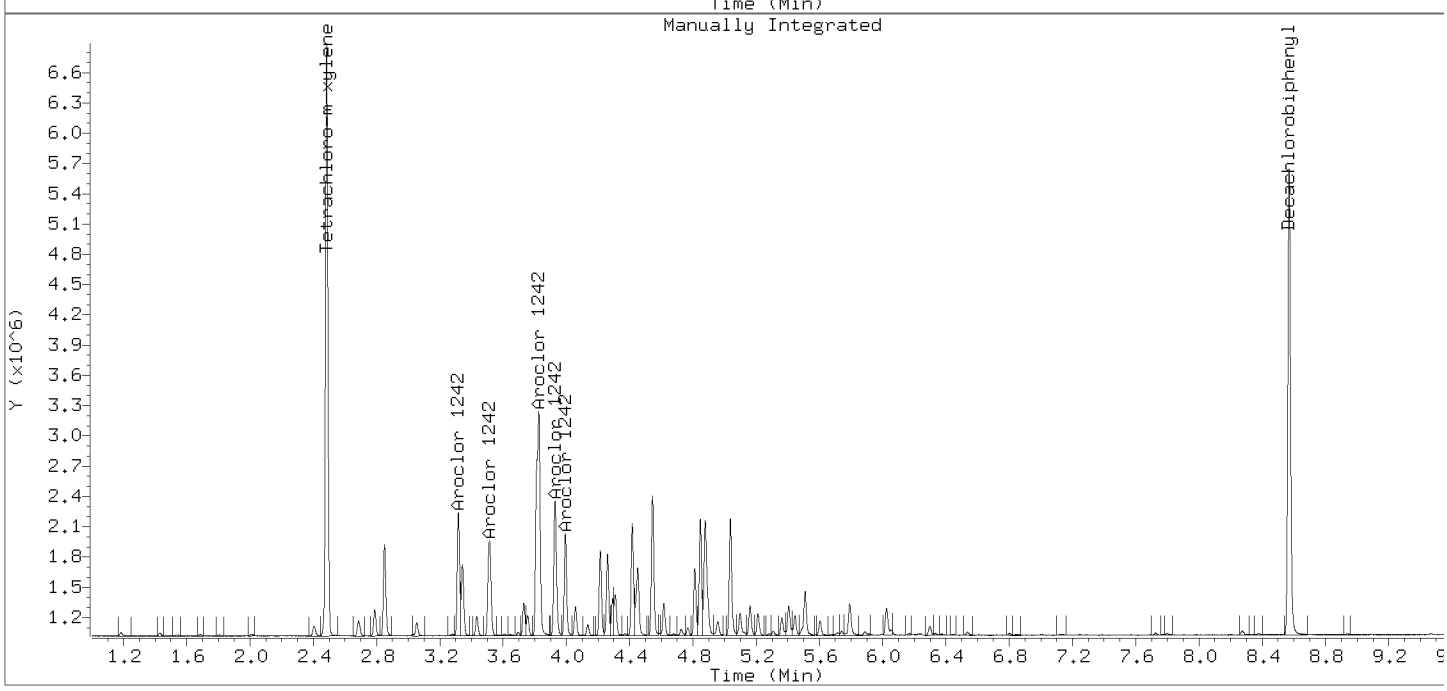
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018040.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 10-APR-2018 22:49 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1323262	1328877	BA
Aroclor 1242	1323262	1328877	BA
Aroclor 1242	1323262	1328877	BA
Aroclor 1242	1323262	1328877	BA
Aroclor 1242	1323262	1328877	BA
Tetrachloro-m-xylene	6221107	6221107	
Decachlorobiphenyl	5539564	5539564	

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 11-APR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

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

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

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

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 11-APR-2018 14:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.486	2.484	0.002	6576761	0.05000	0.053			
5 Aroclor 1016					CAS #: 12674-11-2			
3.318	3.318	0.000	1661241	0.50000	0.54	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1662360	0.50000	0.54	0.00- 20.00	100.07	BA
3.826	3.826	0.000	4762648	0.50000	0.54	0.00- 20.00	286.69	BA
3.929	3.929	0.000	2029581	0.50000	0.54	0.00- 20.00	122.17	BA
3.995	3.994	0.001	1363908	0.50000	0.52	0.00- 20.00	82.10	BA
Average of Peak Amounts =					0.53600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	4789374	0.50000	0.54	0.00- 20.00	100.00(M)	CO
7.005	7.006	-0.001	5445907	0.50000	0.54	0.00- 20.00	113.71	CO
7.251	7.251	0.000	2613847	0.50000	0.55	0.00- 20.00	54.58	CO
7.442	7.443	-0.001	1587749	0.50000	0.54	0.00- 20.00	33.15	CO
7.900	7.901	-0.001	1438384	0.50000	0.54	0.00- 20.00	30.03	CO
Average of Peak Amounts =					0.54200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	6002207	0.05000	0.055			

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118004.D

Date : 11-APR-2018 14:32

Client ID: 1660-CCV

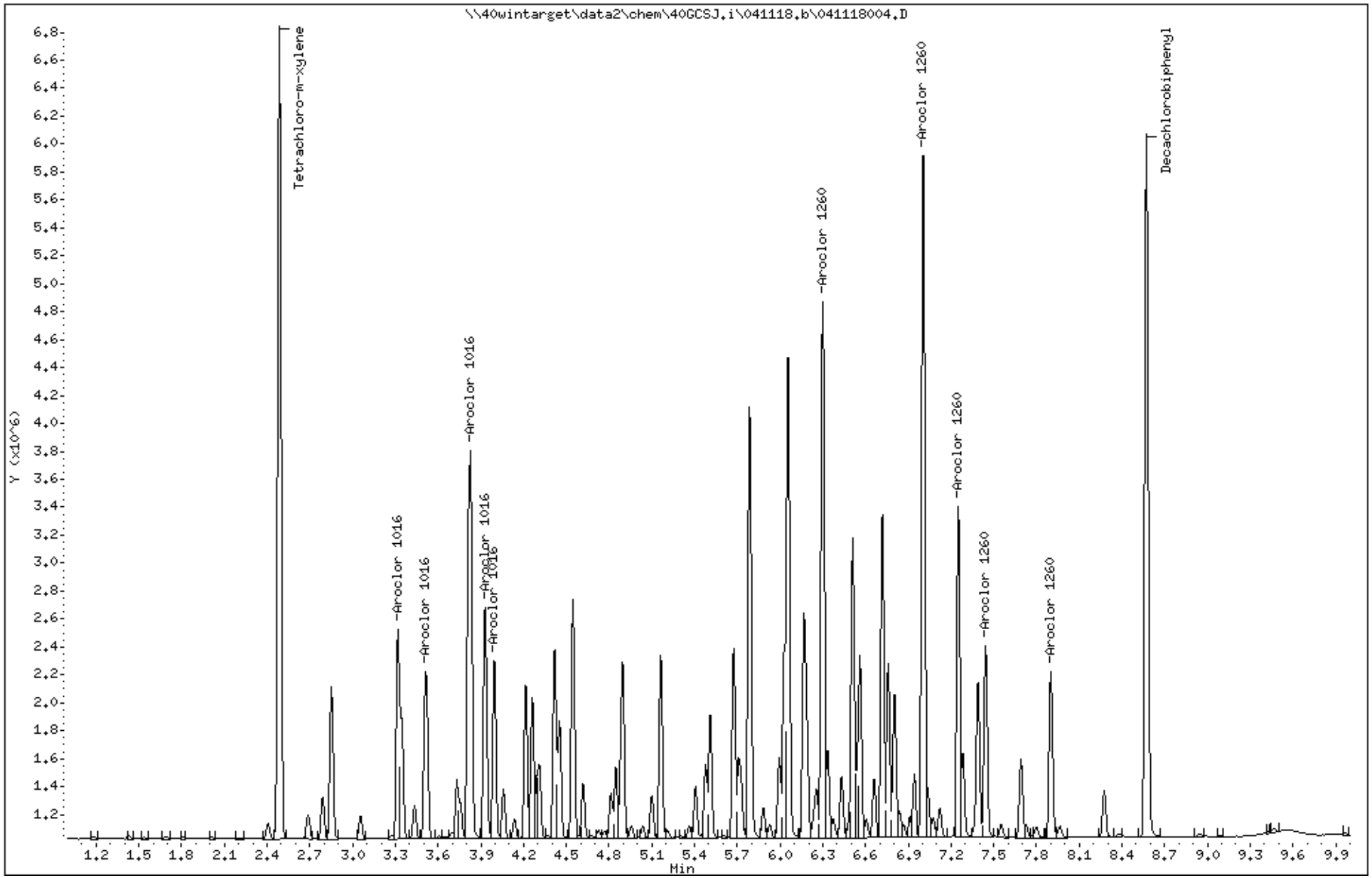
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

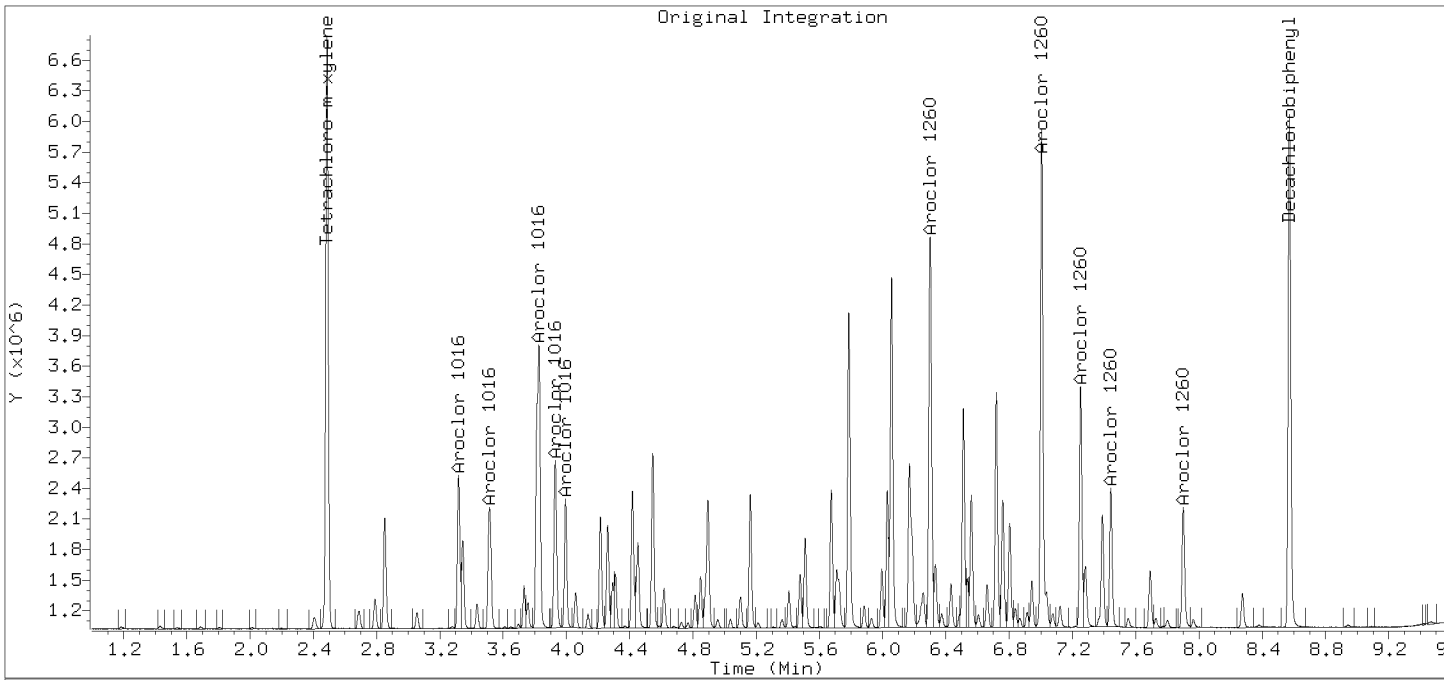
Operator: BLM

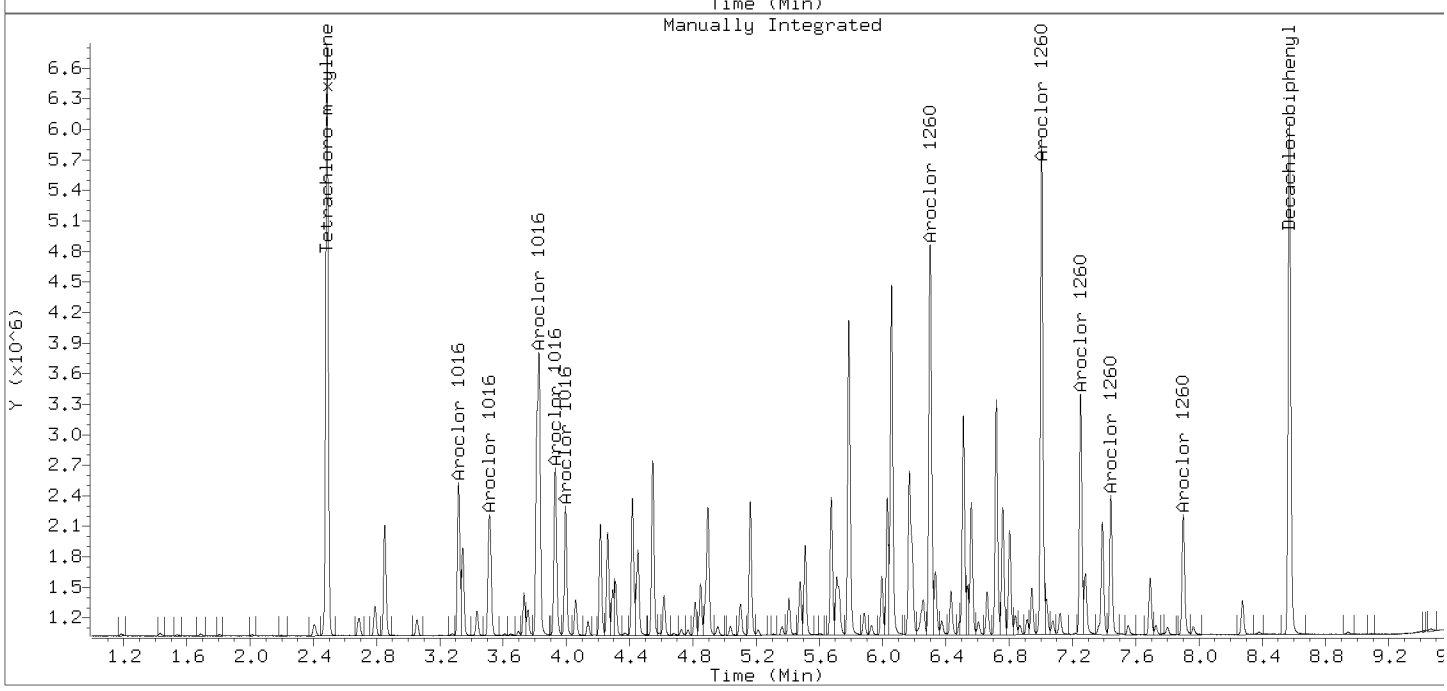
Column phase: ZB-1ms

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	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 11-APR-2018 17:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

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

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

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 11-APR-2018 17:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 13-Apr-2018 11:31 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO		REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8				
2.484	2.484	0.000	6155063	0.05000	0.050			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.804	1.804	0.000	522622	0.50000	0.50	0.00- 20.00	100.00	(M)	BA
2.406	2.407	-0.001	271401	0.50000	0.50	0.00- 20.00	51.93		BA
2.688	2.688	0.000	726951	0.50000	0.52	0.00- 20.00	139.10		BA
2.788	2.789	-0.001	558273	0.50000	0.50	0.00- 20.00	106.82		BA
2.850	2.851	-0.001	1718599	0.50000	0.53	0.00- 20.00	328.84		BA
Average of Peak Amounts =					0.51000				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.571	8.571	0.000	5596305	0.05000	0.051				

QC Flag Legend

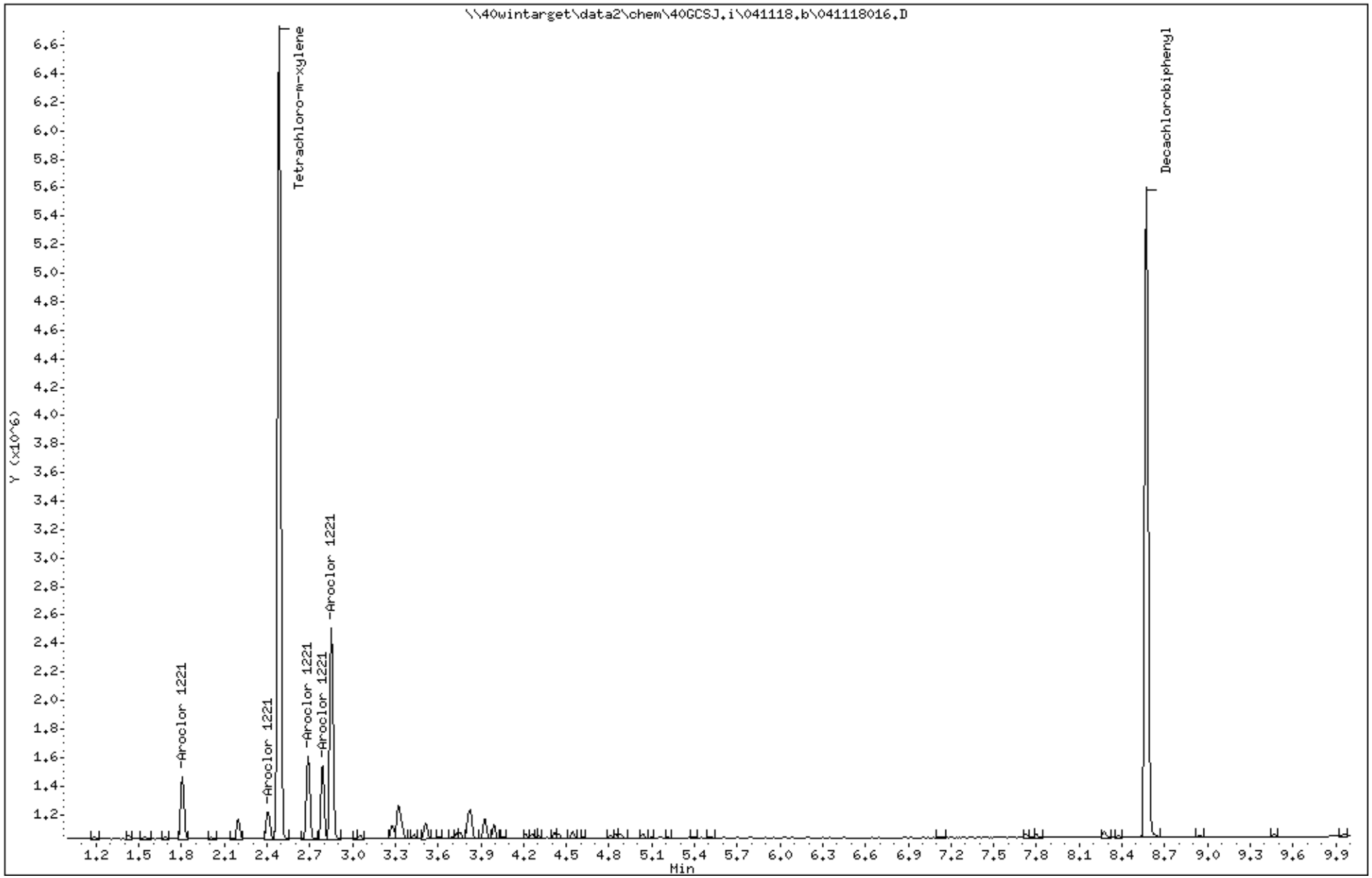
M - Compound response manually integrated.

Review Codes Legend

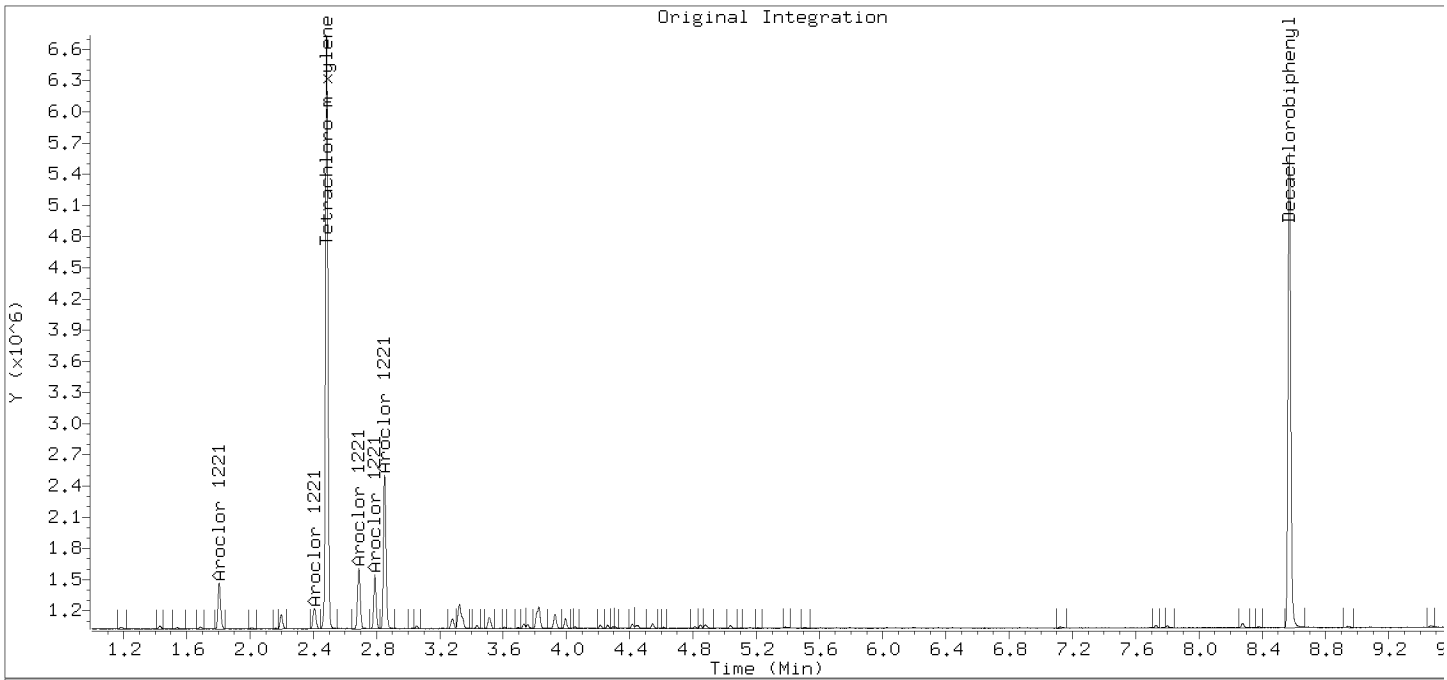
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

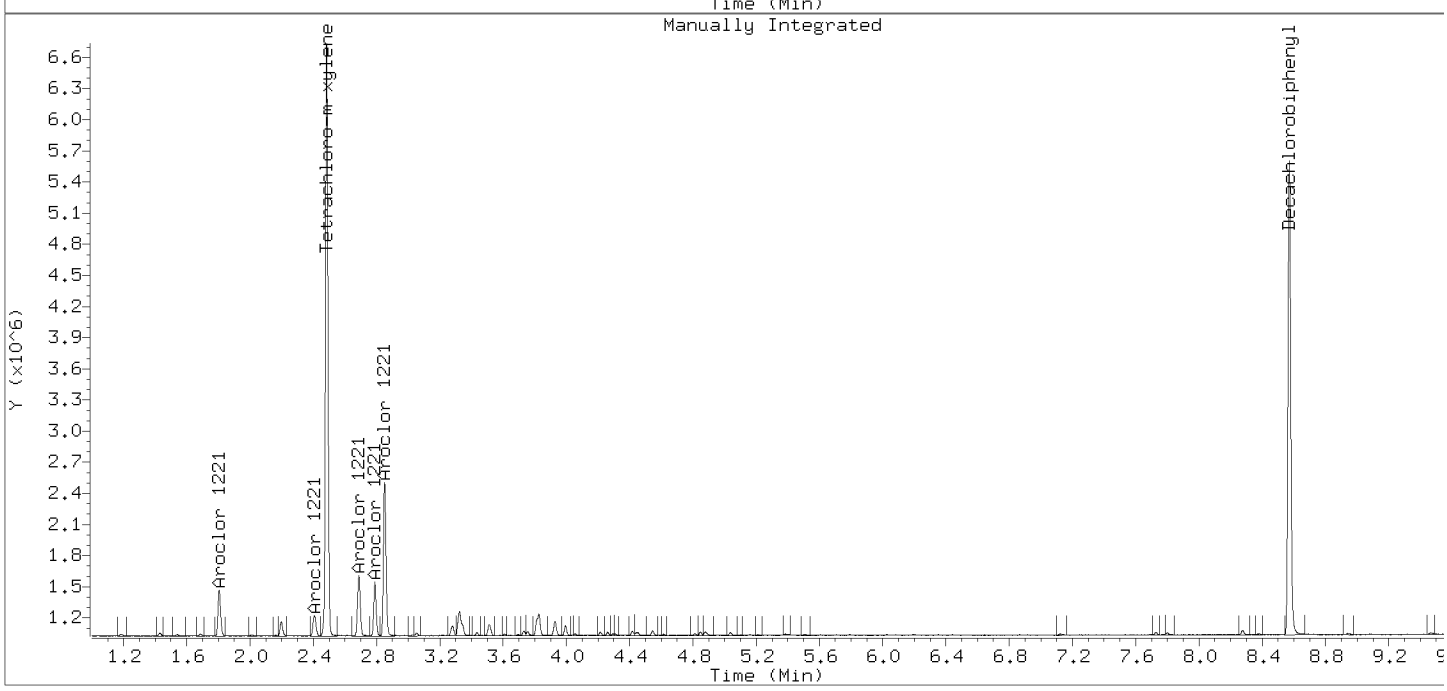
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118016.D
Date : 11-APR-2018 17:42
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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



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





Manually Integrated Compounds

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

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.

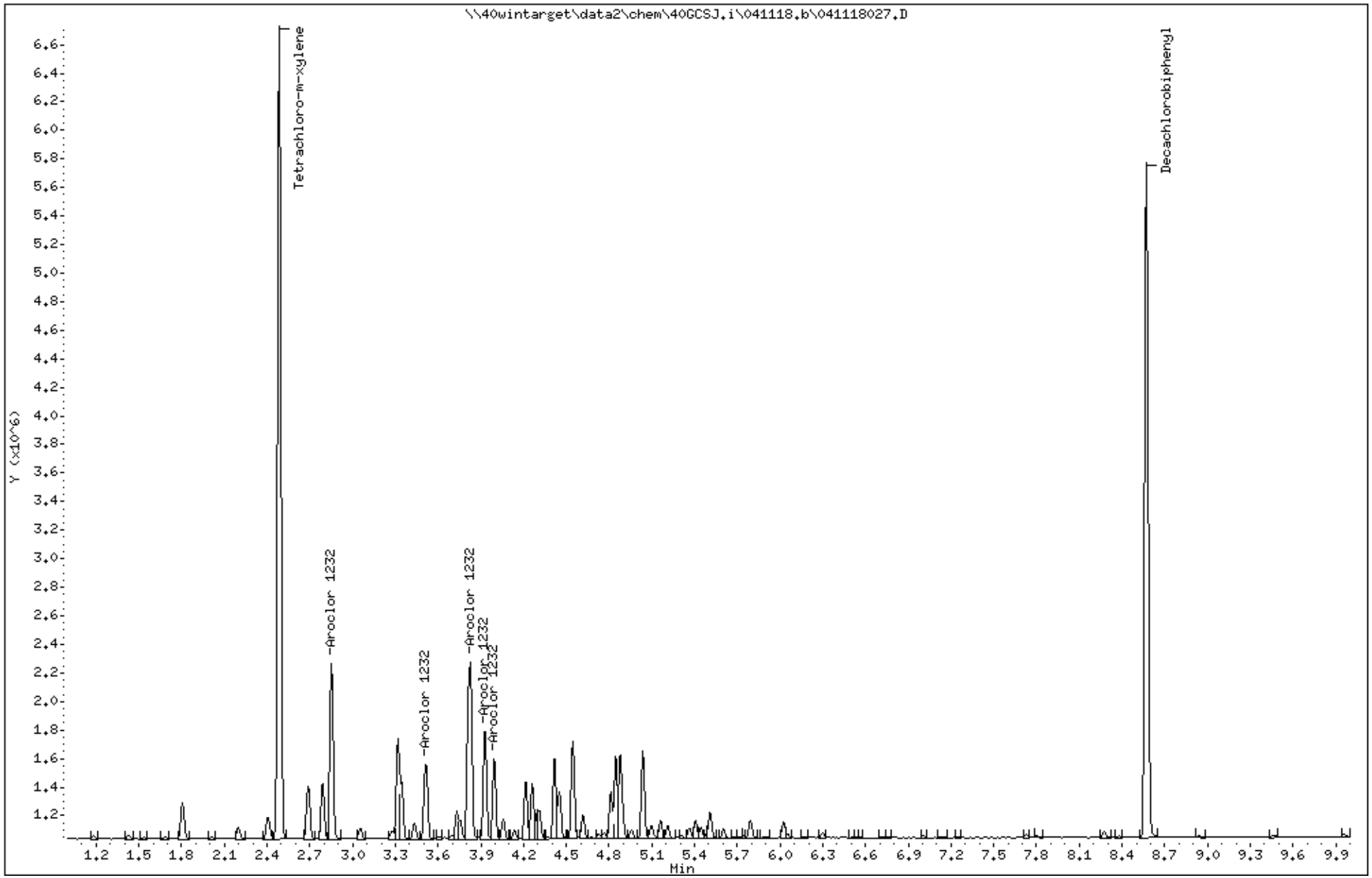
Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118027.D
Date : 11-APR-2018 20:36
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

Instrument: 40GCSJ.i

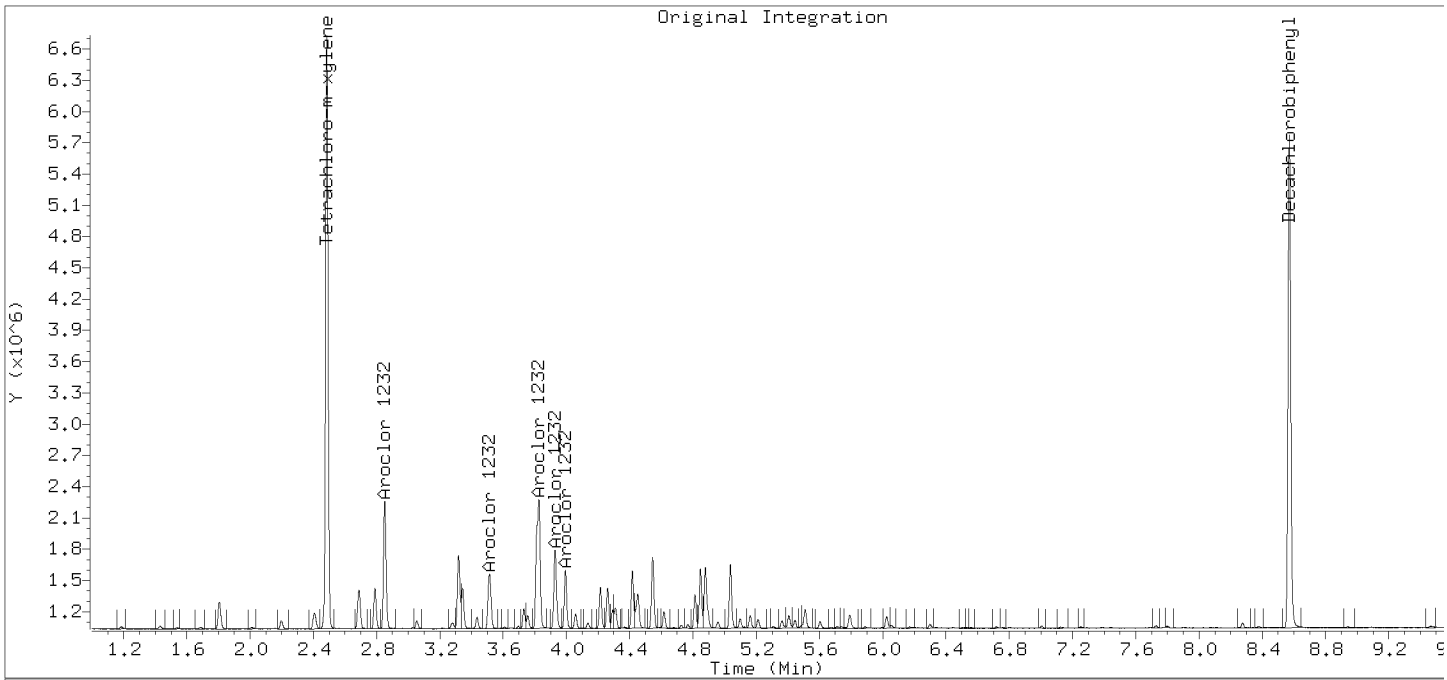
Operator: BLM

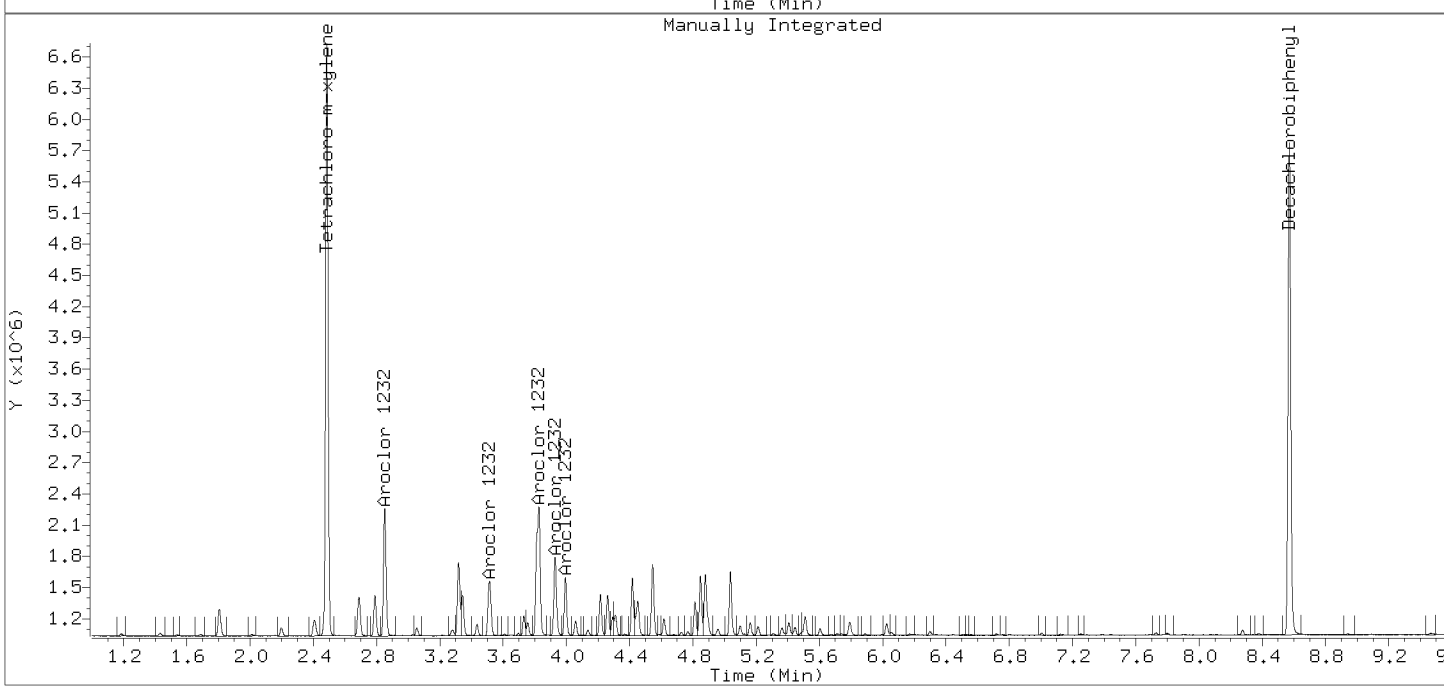
Column phase: ZB-1ms

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.

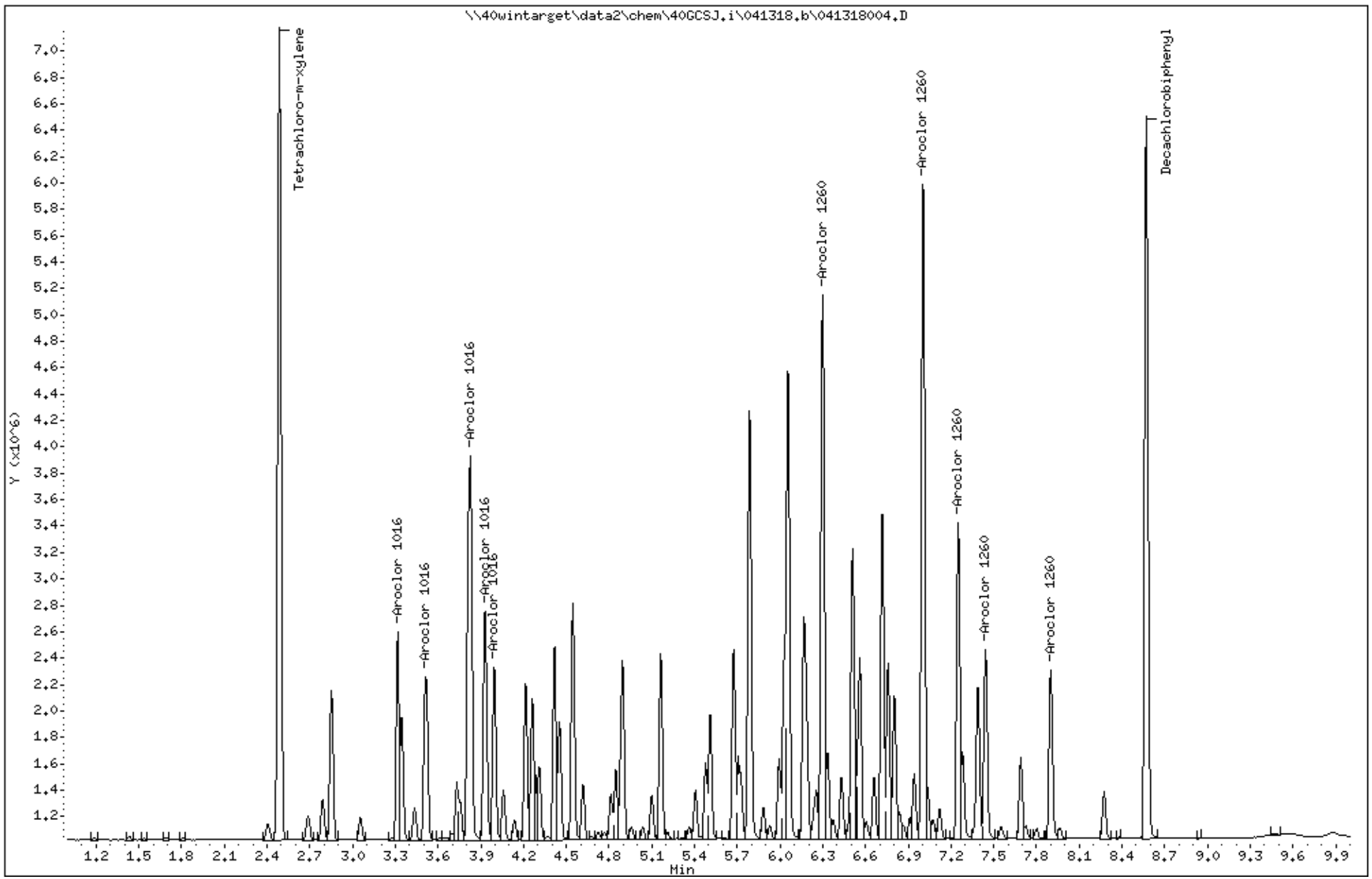
QC Flag Legend

Review Codes Legend

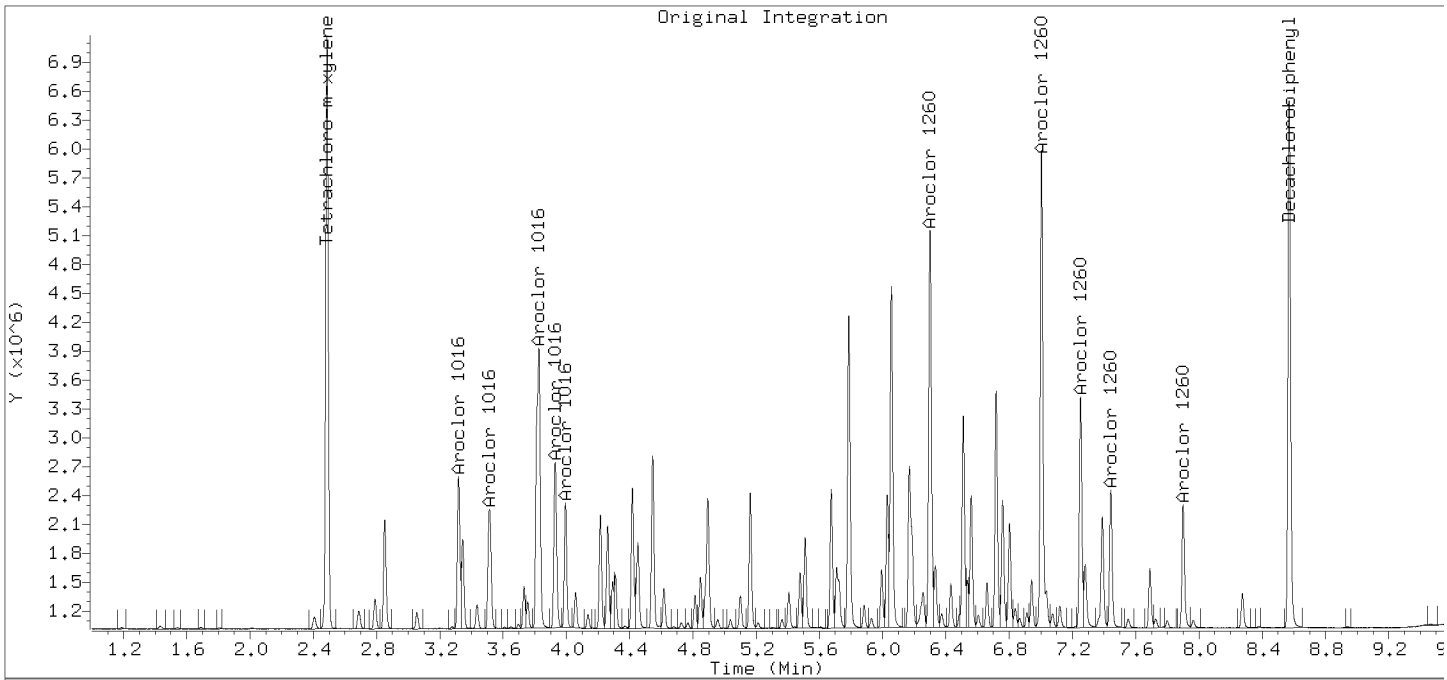
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

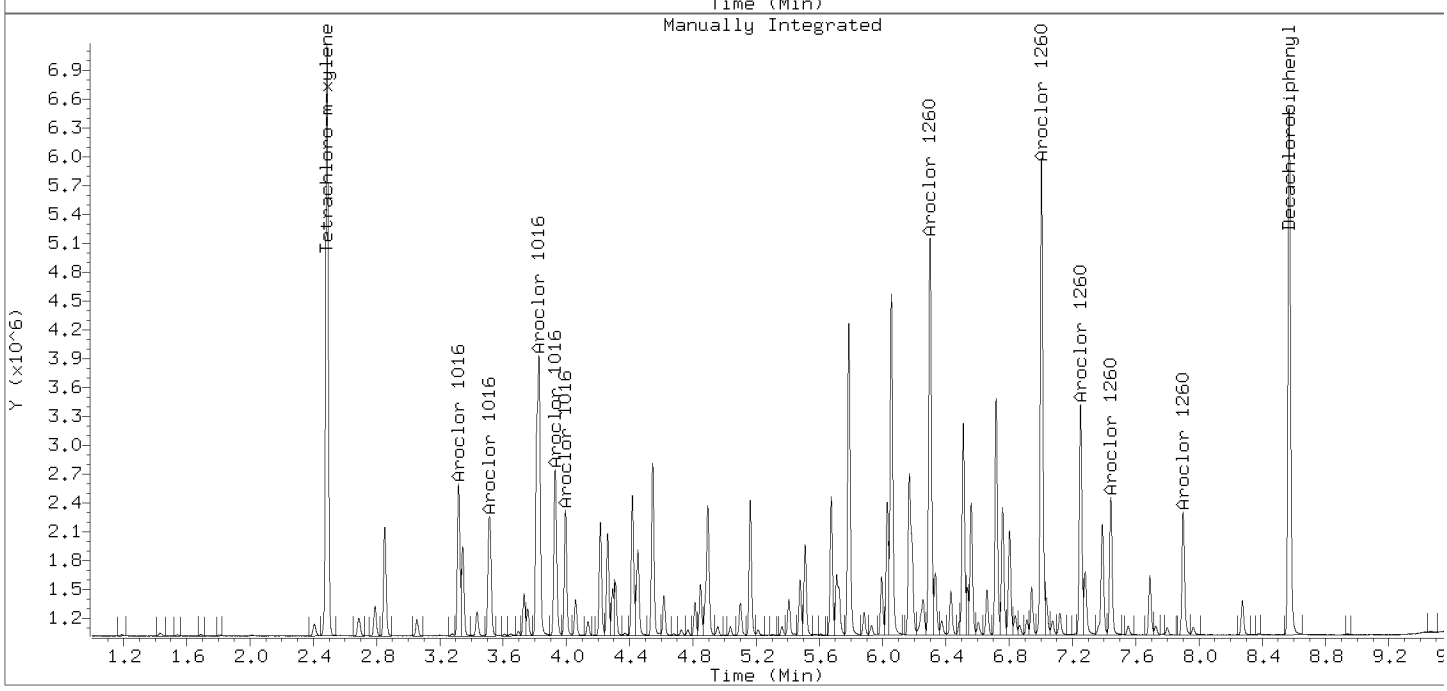
Data File: \\40wintarget\data2\chem\40GCSJ.i\041318.b\041318004.D
Date : 13-APR-2018 14:33
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

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	

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: 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

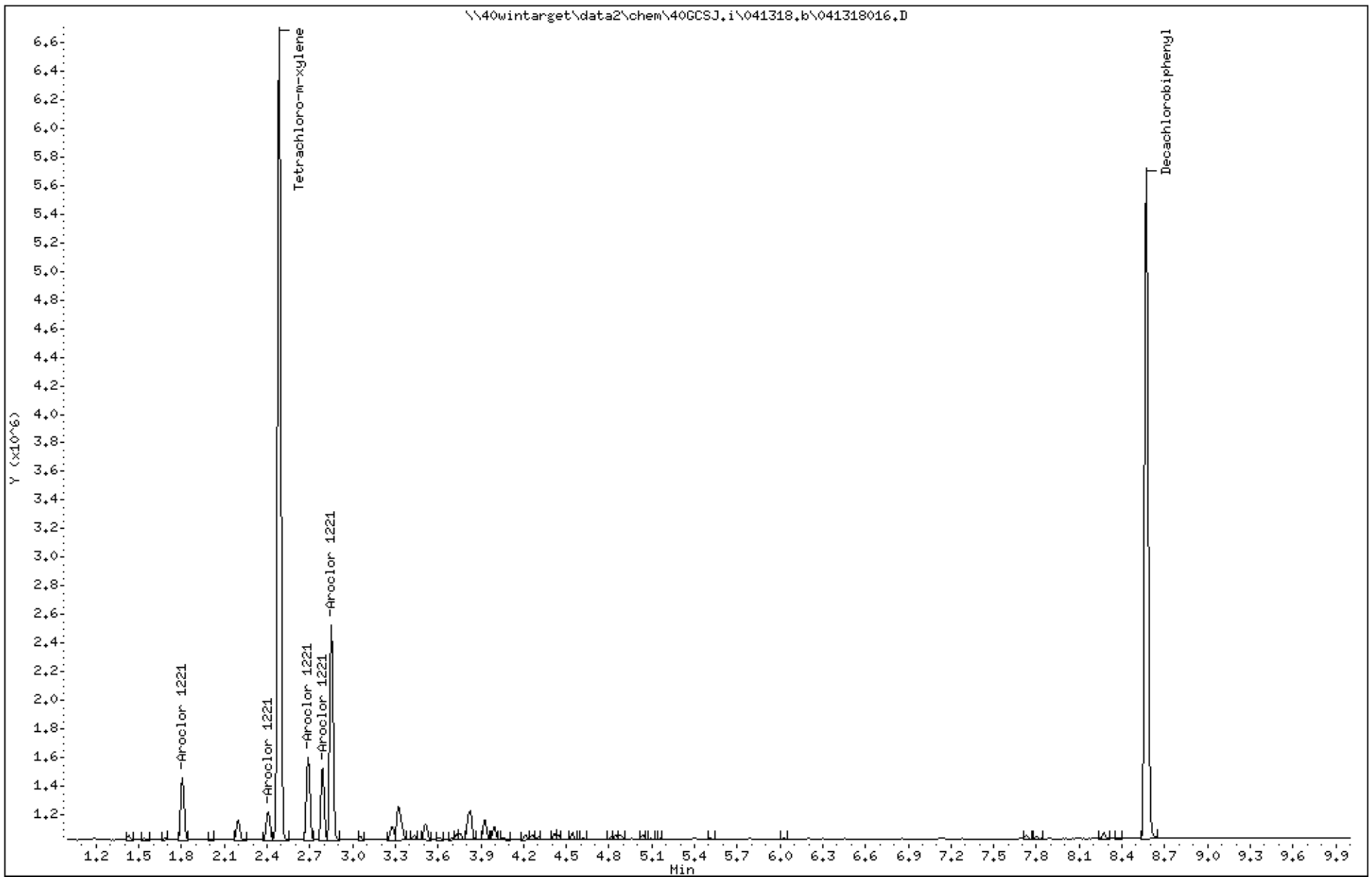
Instrument: 40GCSJ.i

Sample Info: 1221-CCV, 185538:1

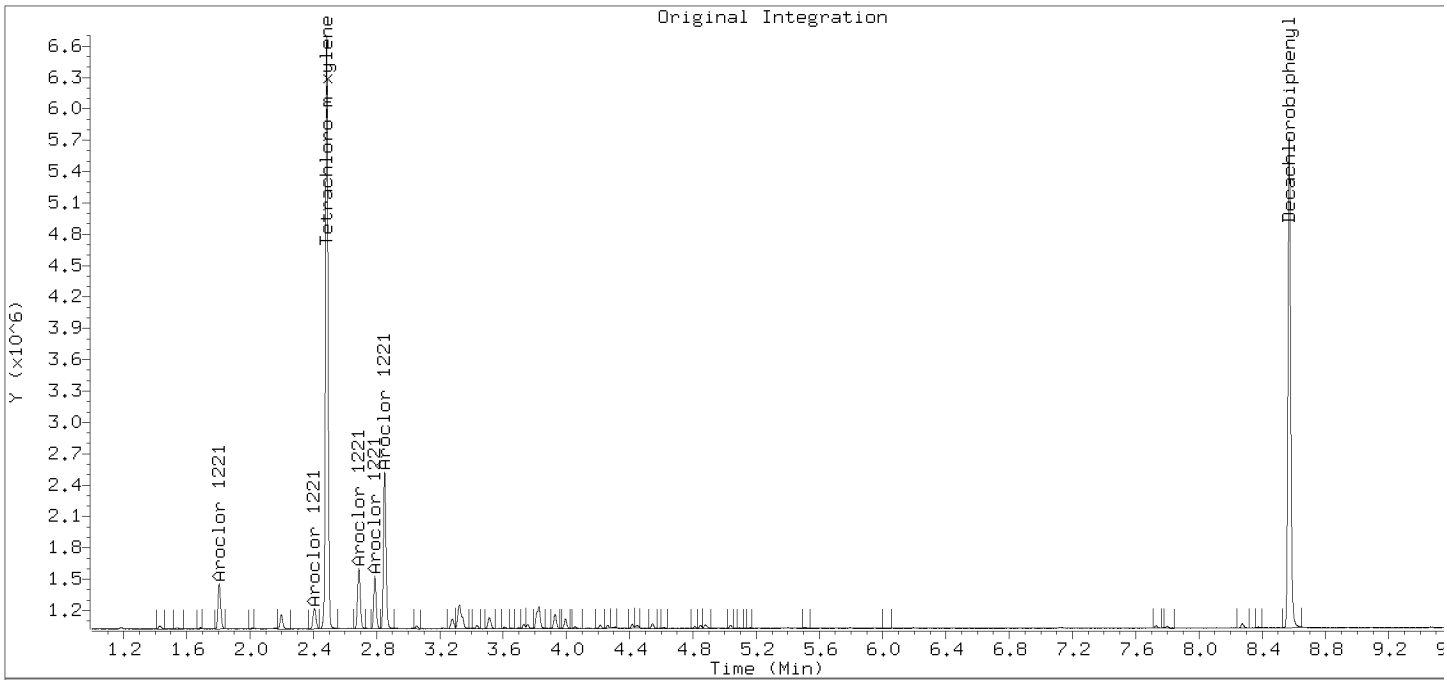
Operator: BLM

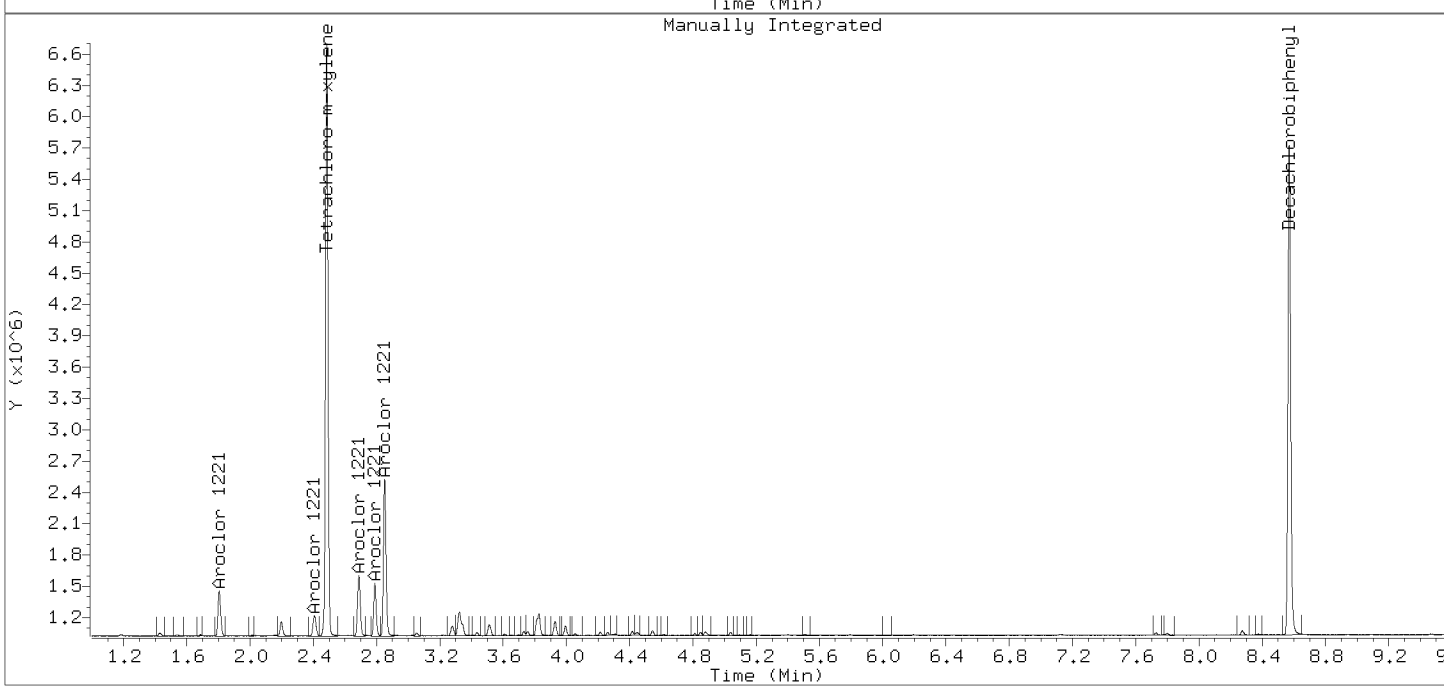
Column phase: ZB-1ms

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	

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.

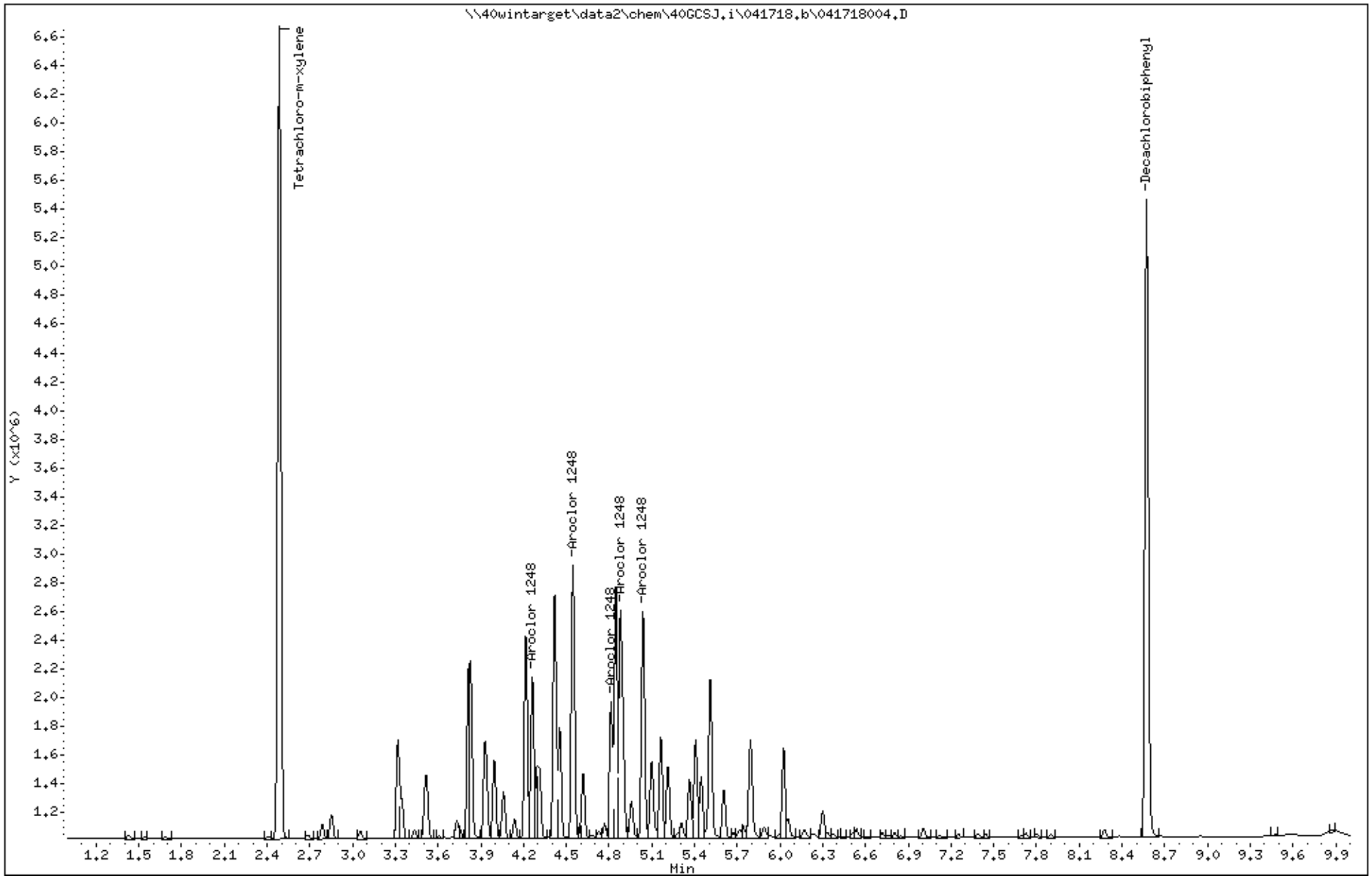
Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718004.D
Date : 17-APR-2018 11:55
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

Instrument: 40GCSJ.i

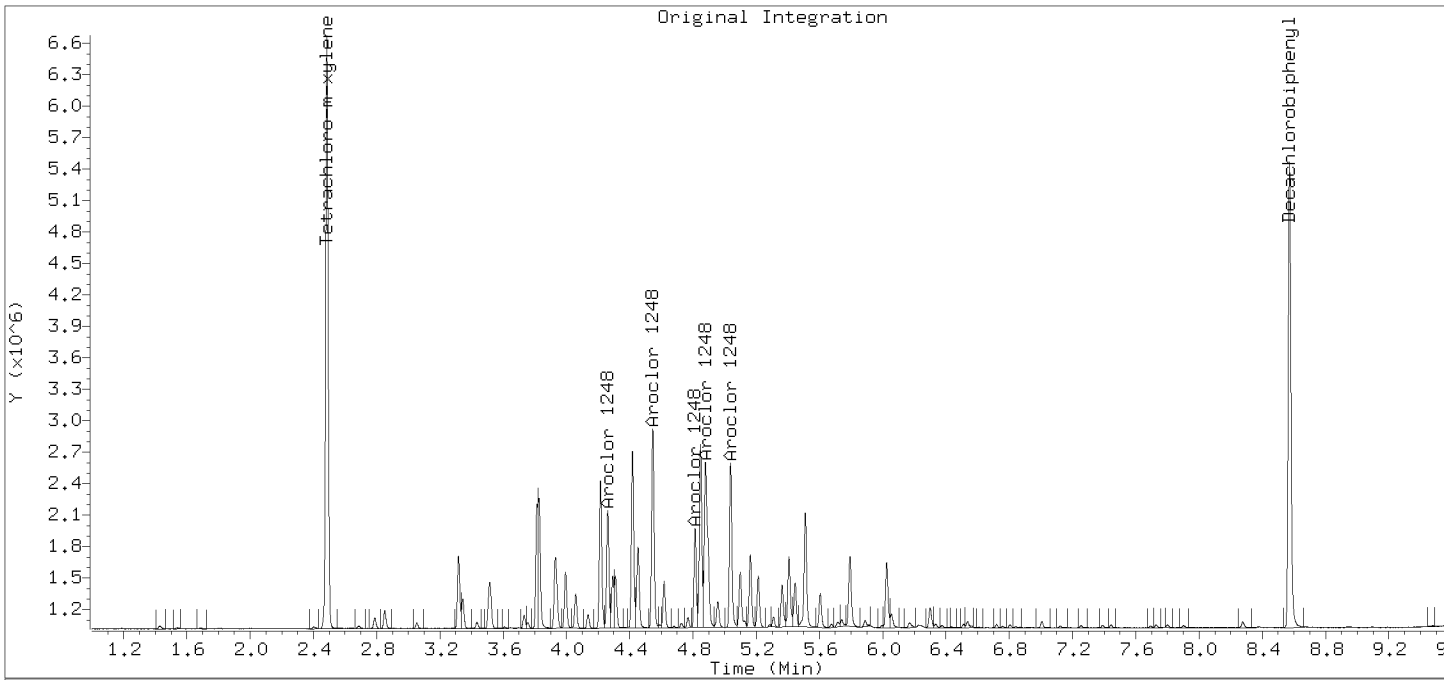
Operator: BLM

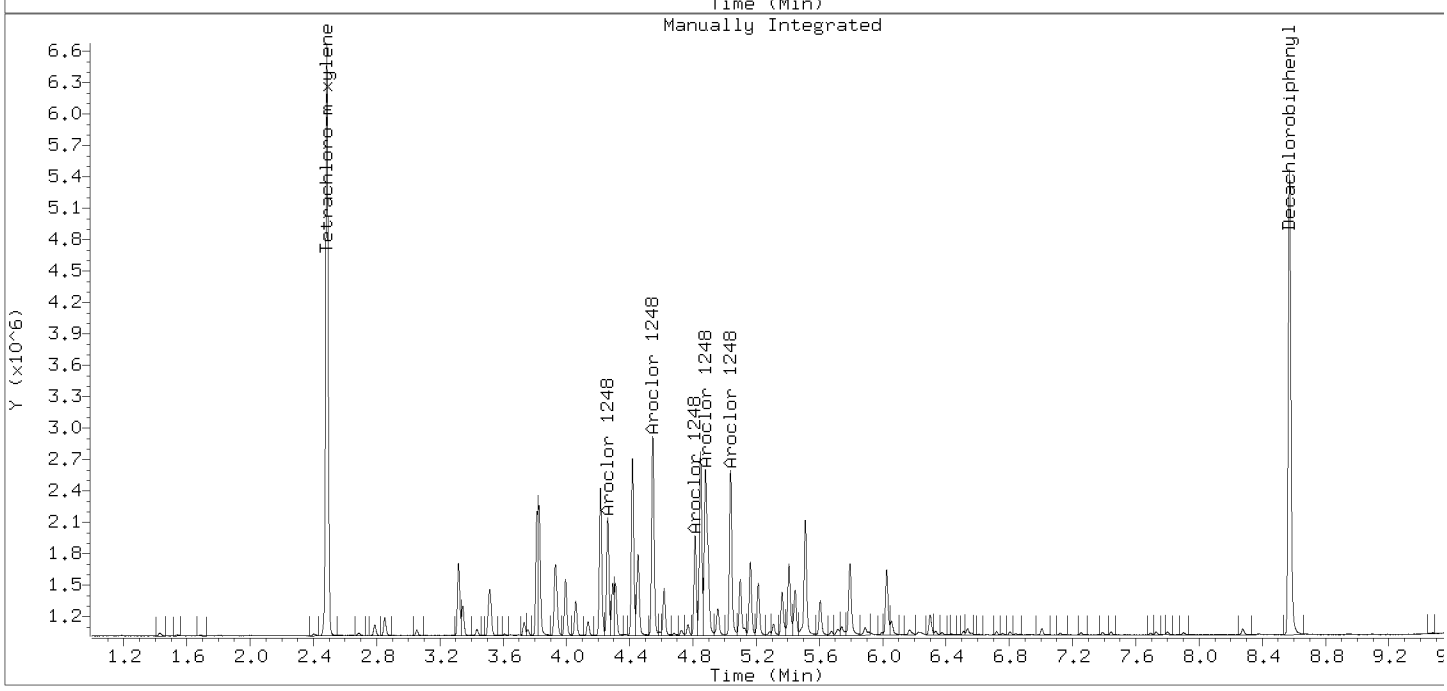
Column phase: ZB-1ms

Column diameter: 0.18



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

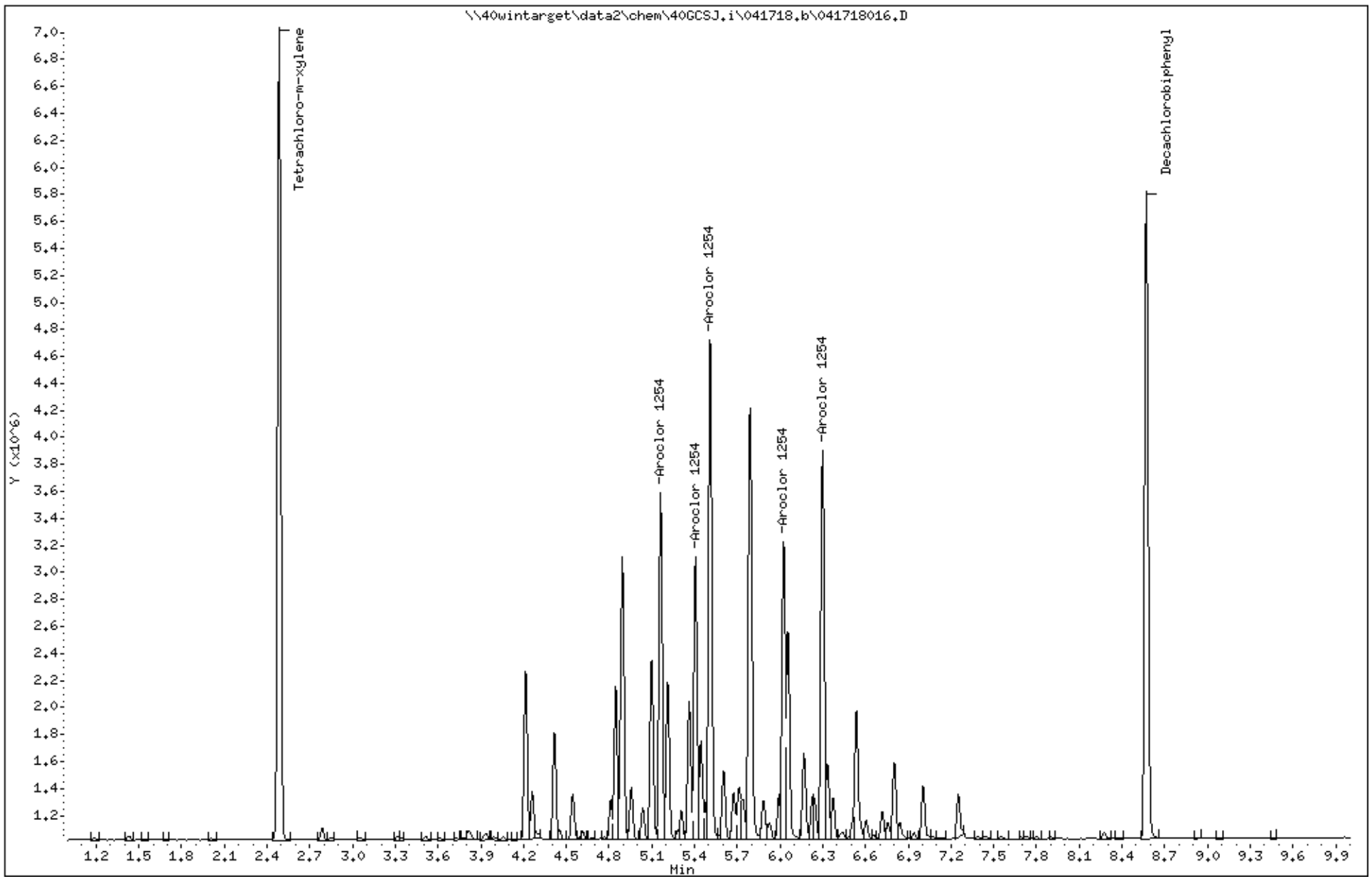
Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718016.D
Date : 17-APR-2018 15:06
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

Instrument: 40GCSJ.i

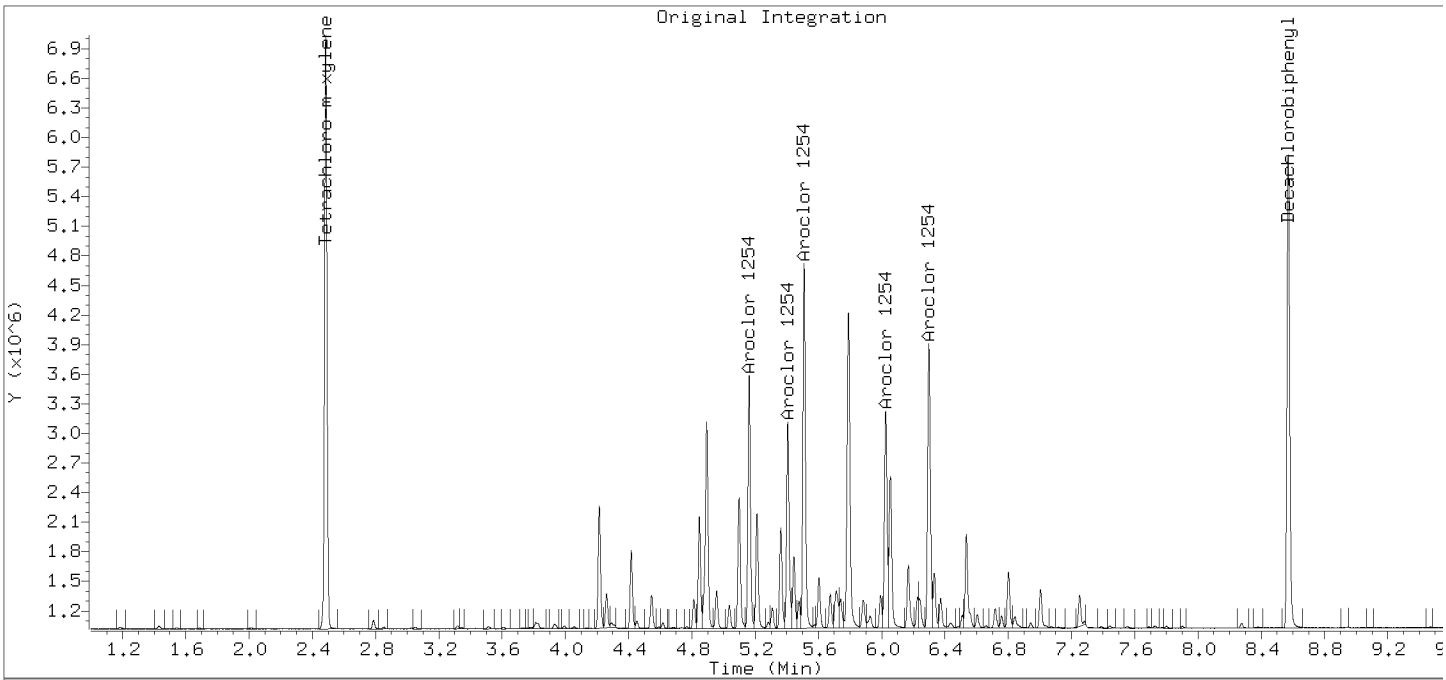
Operator: BLM

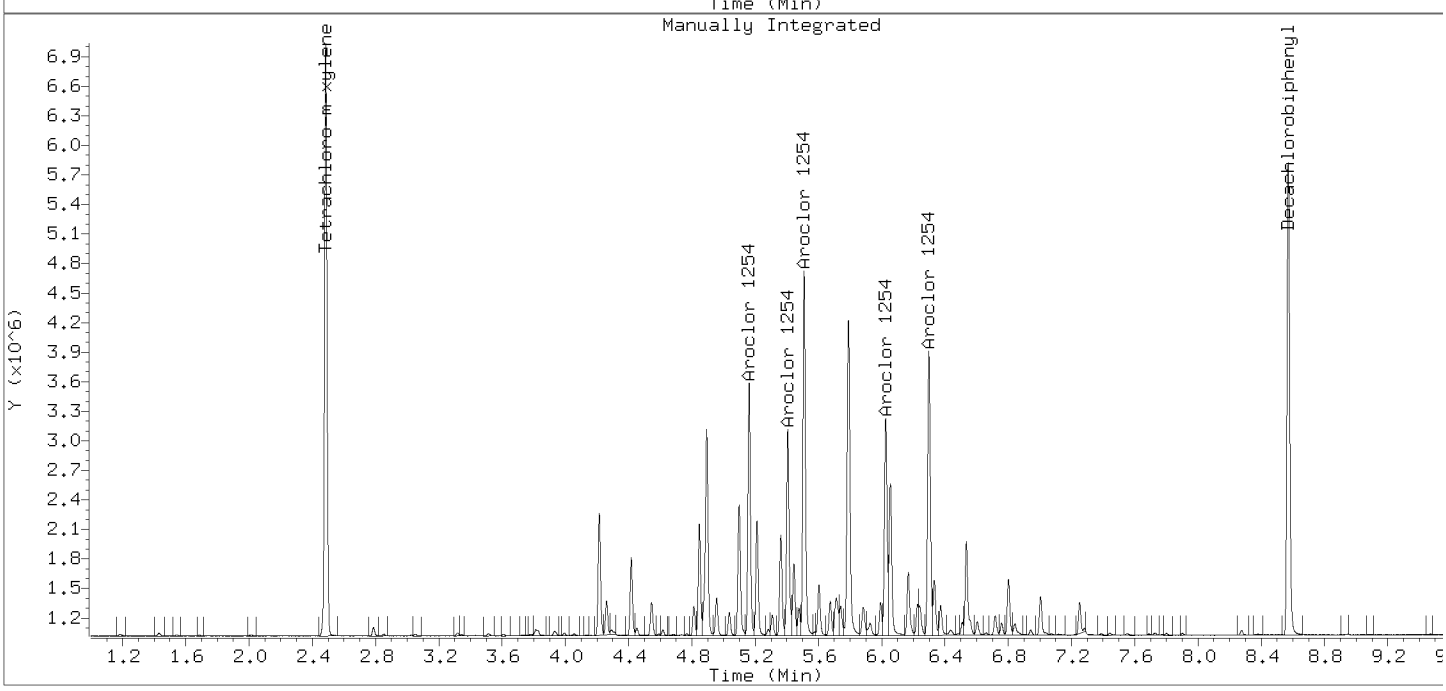
Column phase: ZB-1ms

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	

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: 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

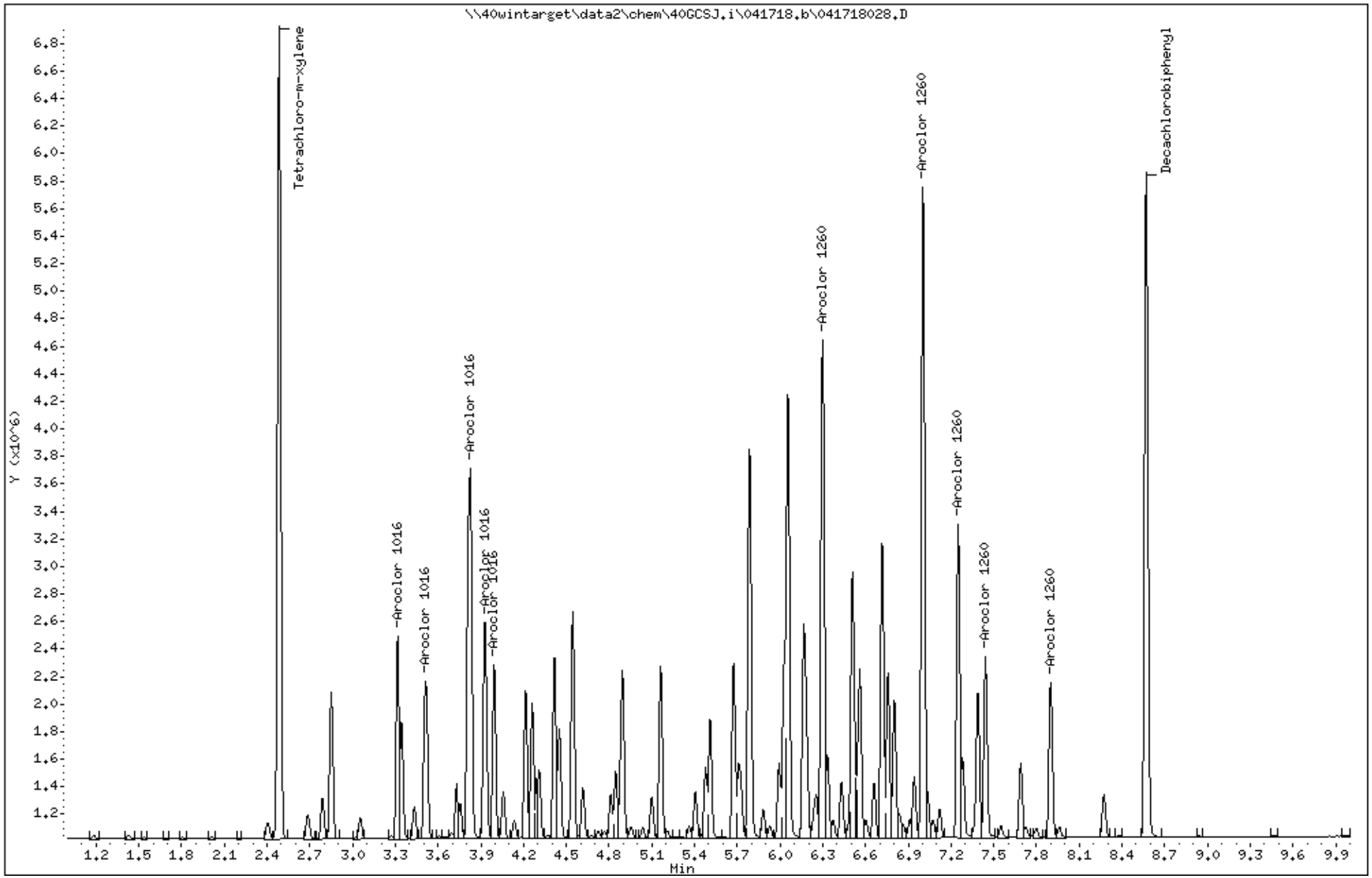
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

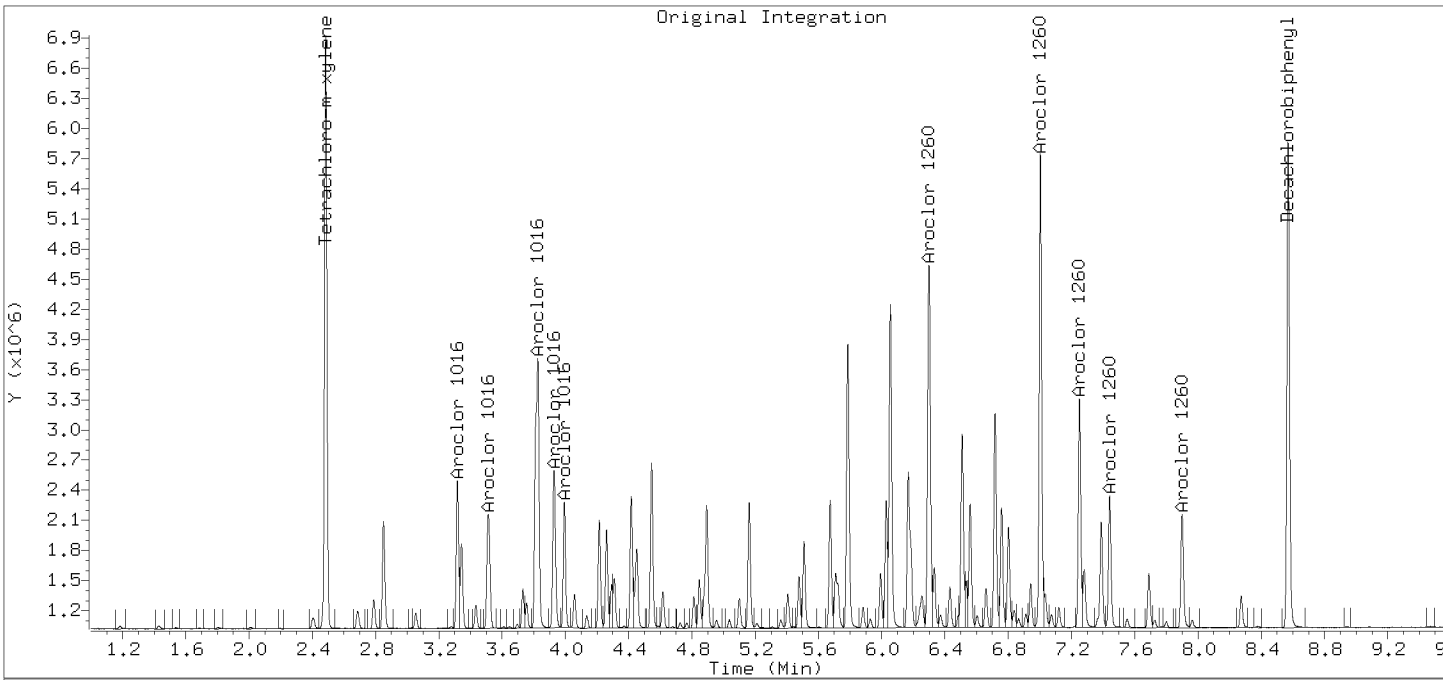
Operator: BLM

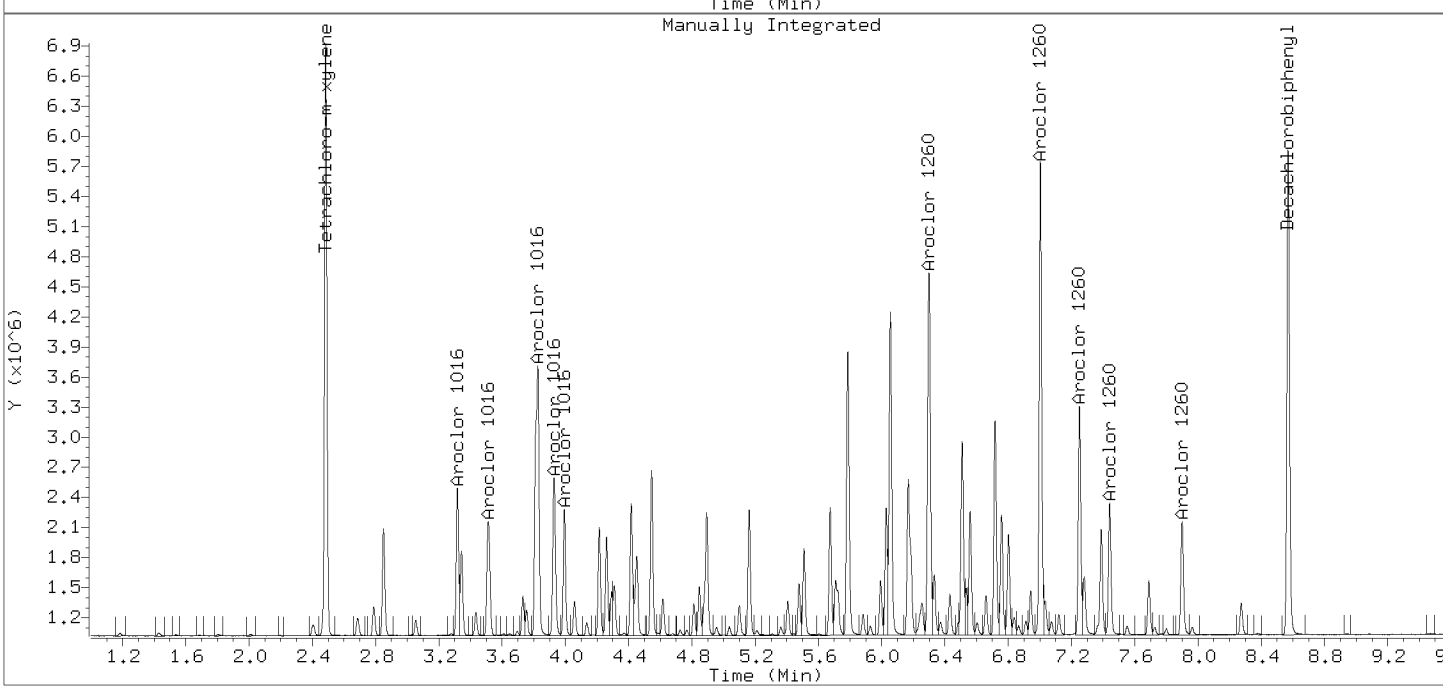
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\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\041718.b\041718033.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 17-APR-2018 19:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
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: 33 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
1.184	38038	28226	0.742	0.20			
1.434	40685	28399	0.698	0.22			
1.538	17345	12662	0.730	0.09			
1.684	14056	11905	0.847	0.07			
1.805	527174	420003	0.797	2.88		1 Aroclor 1221	BA
2.011	30682	19964	0.651	0.16			
2.197	173035	138153	0.798	0.94			
2.407	277124	197579	0.713	1.51		1 Aroclor 1221	BA
2.485	6236617	5562121	0.892	34.39	$	2 Tetrachloro-m-xylene	BA
2.688	724175	584170	0.807	3.96		1 Aroclor 1221	BA
2.789	566973	514478	0.907	3.10		1 Aroclor 1221	BA
2.850	1734729	1460052	0.842	9.49		1 Aroclor 1221	BA
3.023	17129	13379	0.781	0.09			
3.052	34435	29434	0.855	0.18			
3.280	130559	93703	0.718	0.71			
3.325	416074	235245	0.565	2.27			
3.434	38423	34514	0.898	0.21			
3.513	150246	108960	0.725	0.82			
3.607	21542	21814	1.013	0.11			
3.695	11945	11620	0.973	0.06			
3.732	43489	43521	1.001	0.23			
3.755	45014	42243	0.938	0.24			
3.779	24332	22367	0.919	0.13			
3.826	374474	215833	0.576	2.04			
3.927	175038	142385	0.813	0.95			
3.994	109955	104470	0.950	0.60			
4.052	36939	31044	0.840	0.20			
4.213	35924	32644	0.909	0.19			
4.260	29436	30973	1.052	0.16			
4.417	34065	35418	1.040	0.18			
4.438	25377	20235	0.797	0.13			
4.544	57810	49121	0.850	0.31			
4.615	23058	16113	0.699	0.12			
4.813	21183	20535	0.969	0.11			
4.848	36657	34748	0.948	0.20			
4.879	55237	41065	0.743	0.30			
5.037	39296	34875	0.887	0.21			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.100	9578	8743	0.913	0.05	
5.162	13735	11203	0.816	0.07	
5.509	18285	13756	0.752	0.10	
6.026	10547	7886	0.748	0.05	
6.192	14807	10478	0.708	0.08	
6.448	10801	9253	0.857	0.05	
7.729	28334	25229	0.890	0.15	
7.772	14414	11313	0.785	0.07	
7.799	22333	18246	0.817	0.12	
8.275	54591	44259	0.811	0.29	
8.380	17768	13677	0.770	0.09	
8.571	5649457	4791638	0.848	30.91	$ 12 Decachlorobiphenyl
8.941	19490	12187	0.625	0.10	
9.086	12390	8307	0.670	0.06	
9.460	10073	7713	0.766	0.05	
	18274873	15437859		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718033.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 17-APR-2018 19:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
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: 33 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	6236616	0.05000	0.050		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	527174	0.50000	0.51	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	277124	0.50000	0.50	0.00- 20.00	52.57	BA
2.688	2.688	0.000	724174	0.50000	0.52	0.00- 20.00	137.37	BA
2.788	2.789	-0.001	566973	0.50000	0.51	0.00- 20.00	107.55	BA
2.850	2.851	-0.001	1734728	0.50000	0.53	0.00- 20.00	329.06	BA
Average of Peak Amounts =					0.51400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5649457	0.05000	0.052			

QC Flag Legend

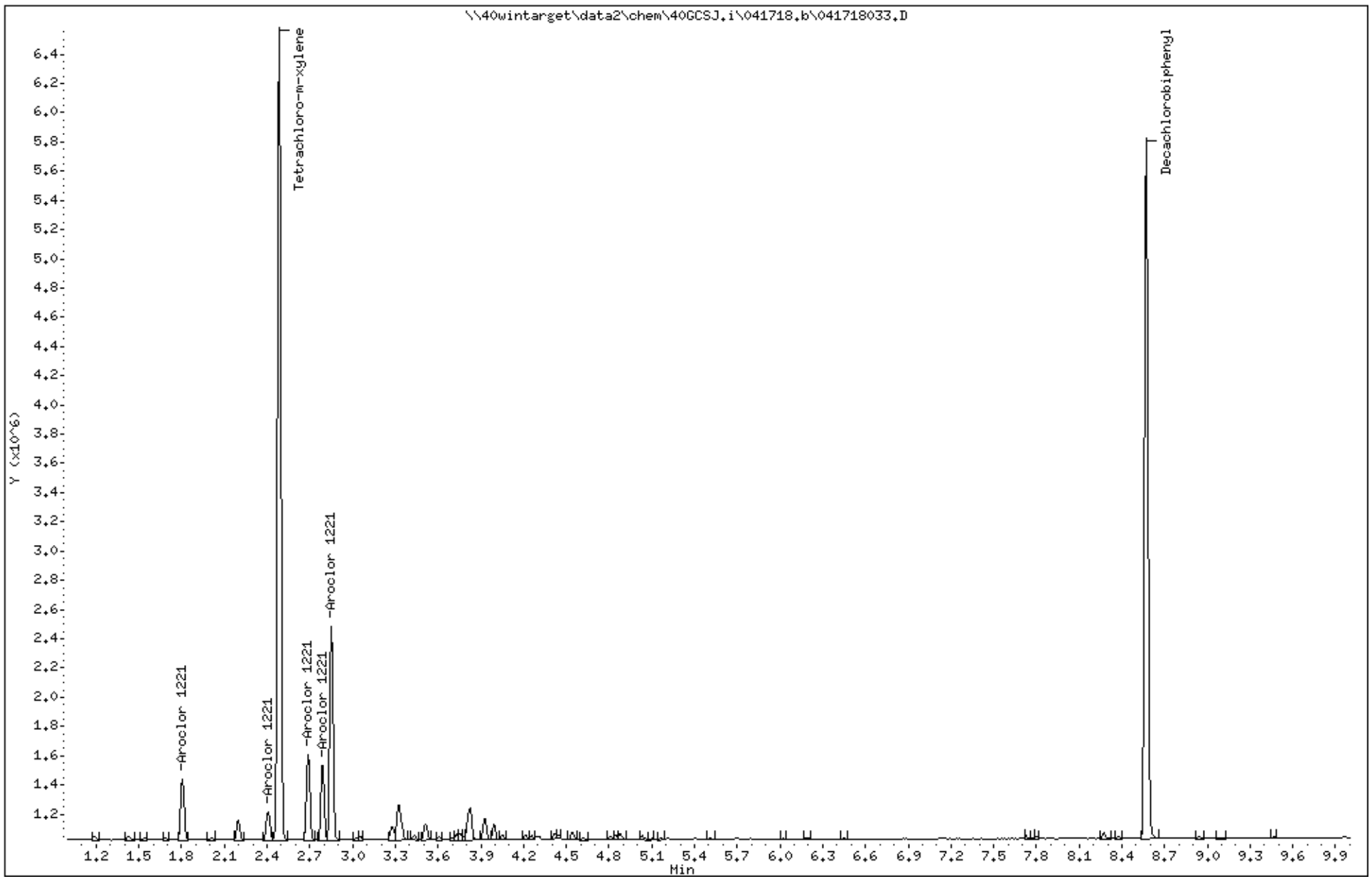
M - Compound response manually integrated.

Review Codes Legend

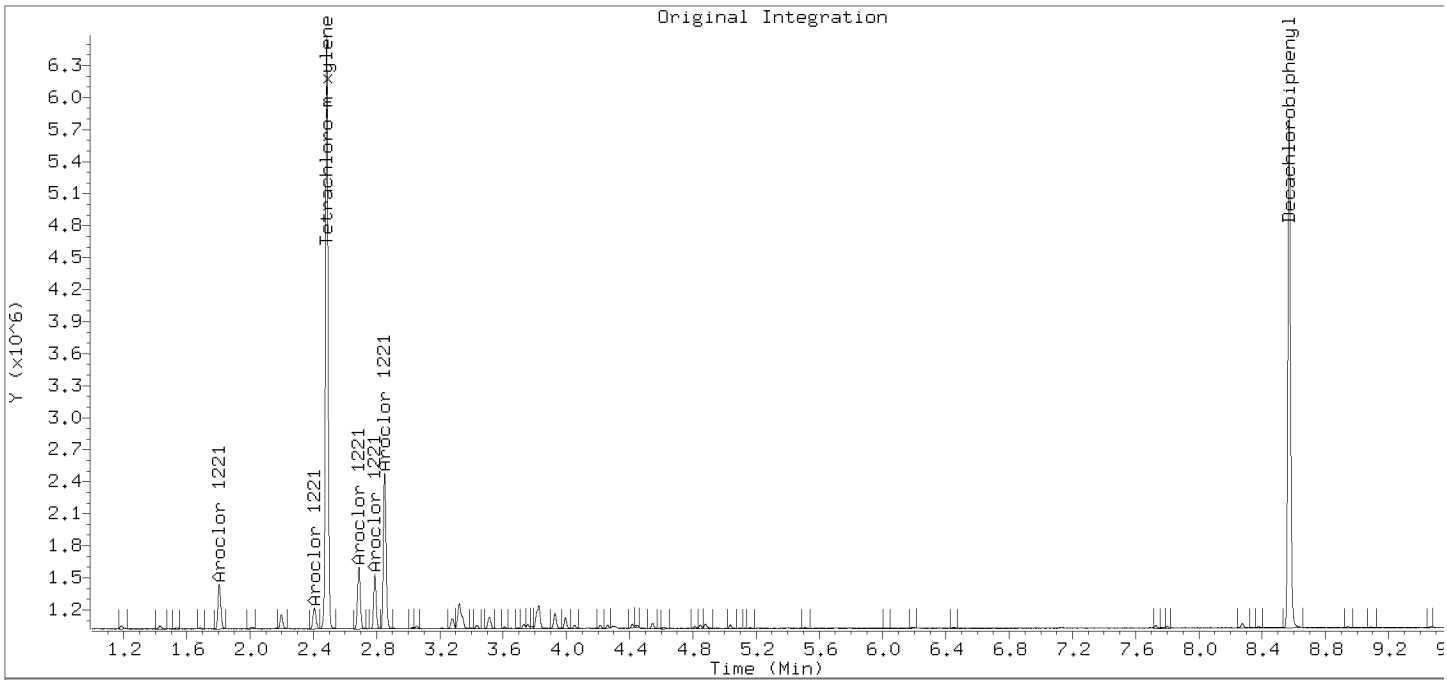
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

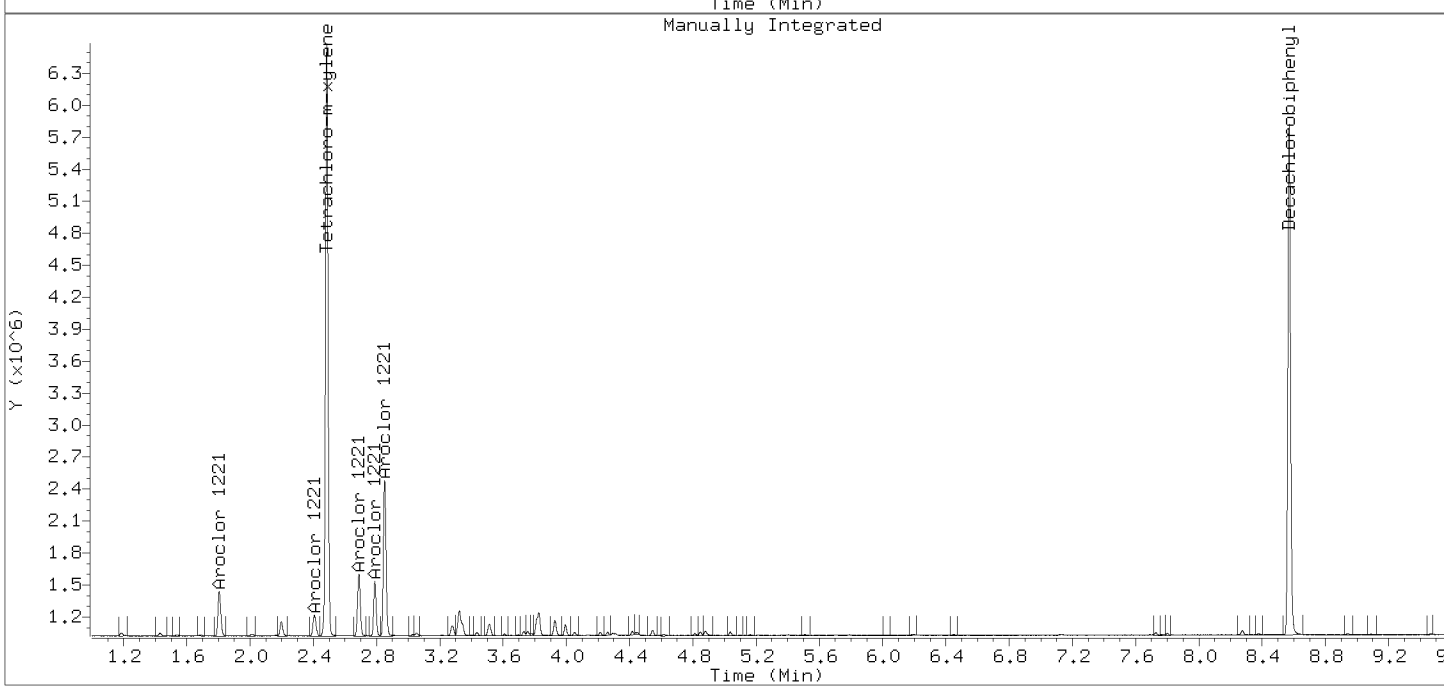
Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718033.D
Date : 17-APR-2018 19:35
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718033.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 17-APR-2018 19:35 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	520497	527174	BA
Aroclor 1221	520497	527174	BA
Aroclor 1221	520497	527174	BA
Aroclor 1221	520497	527174	BA
Aroclor 1221	520497	527174	BA
Tetrachloro-m-xylene	6215023	6236616	BA
Decachlorobiphenyl	5649457	5649457	

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

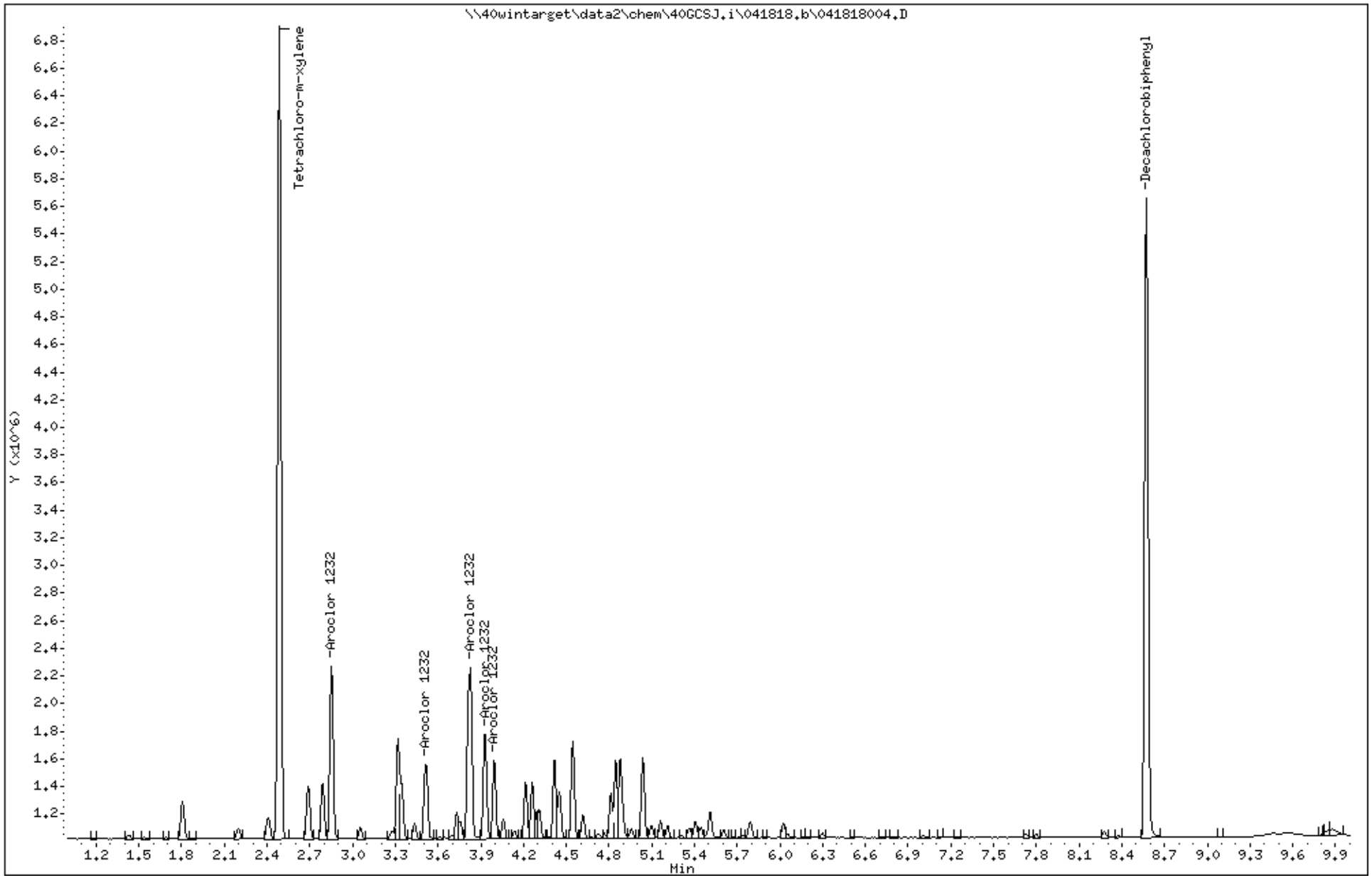
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

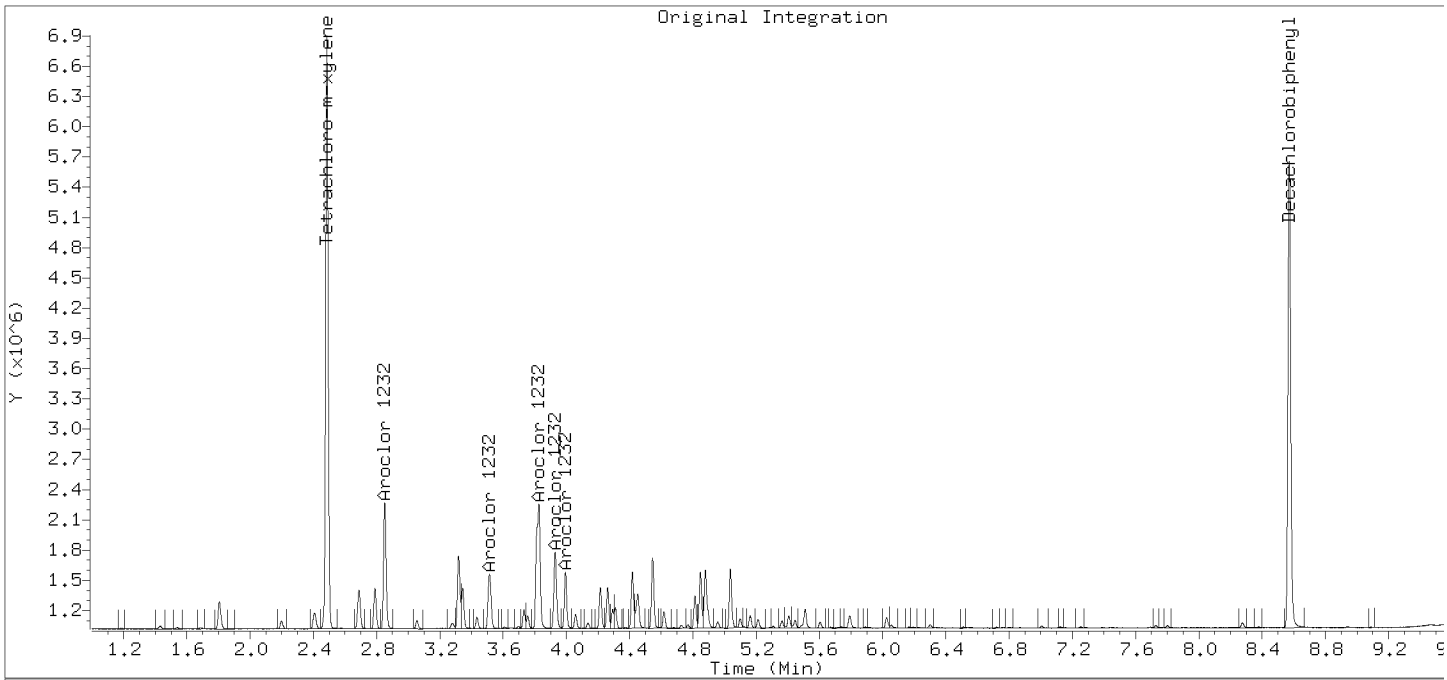
Operator: BLM

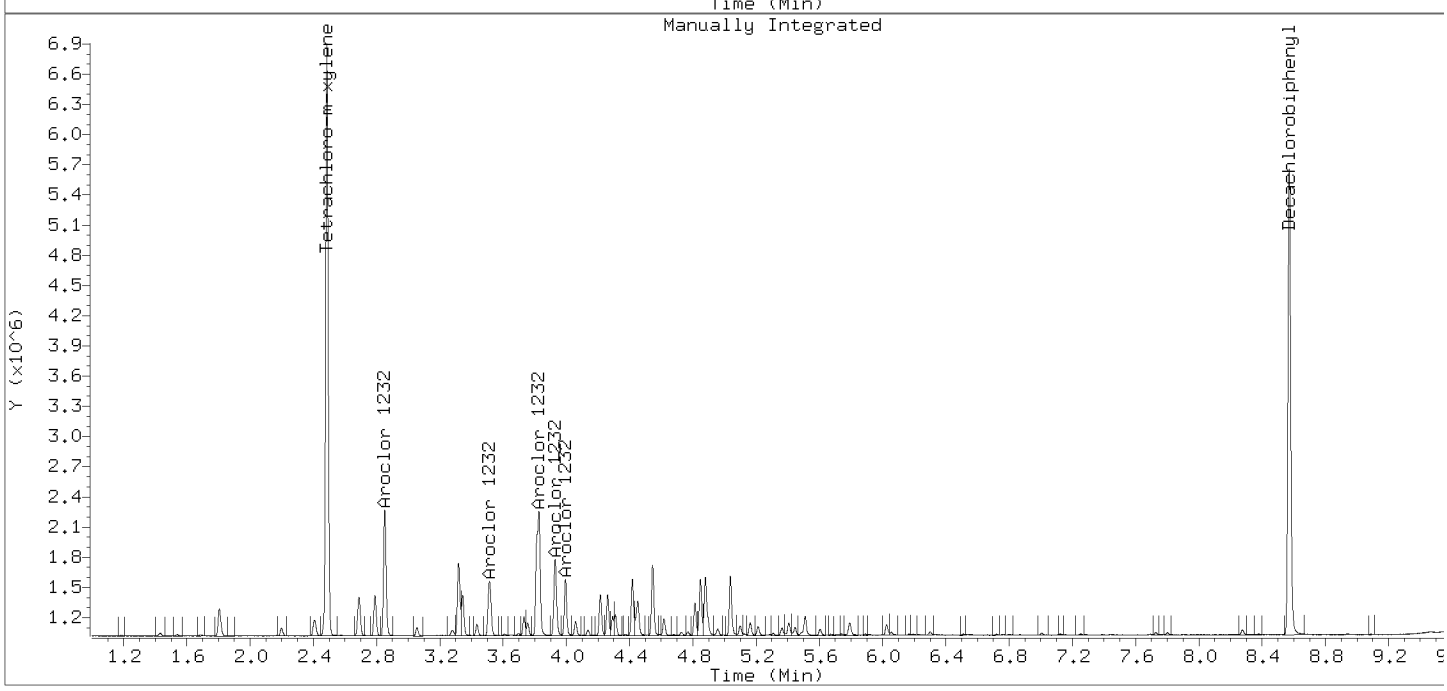
Column phase: ZB-1ms

Column diameter: 0.18



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

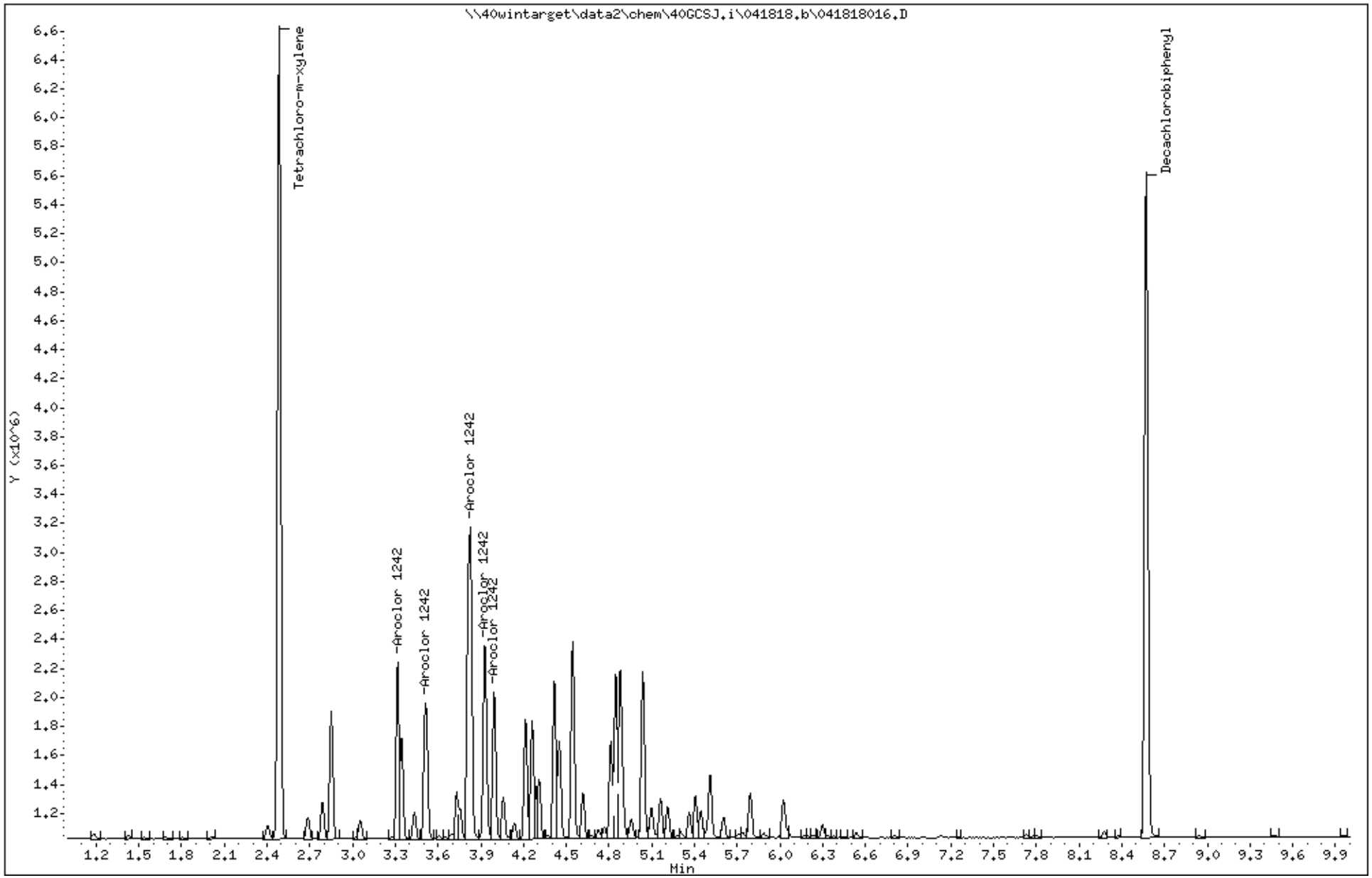
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818016.D
Date : 18-APR-2018 16:24
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

Instrument: 40GCSJ.i

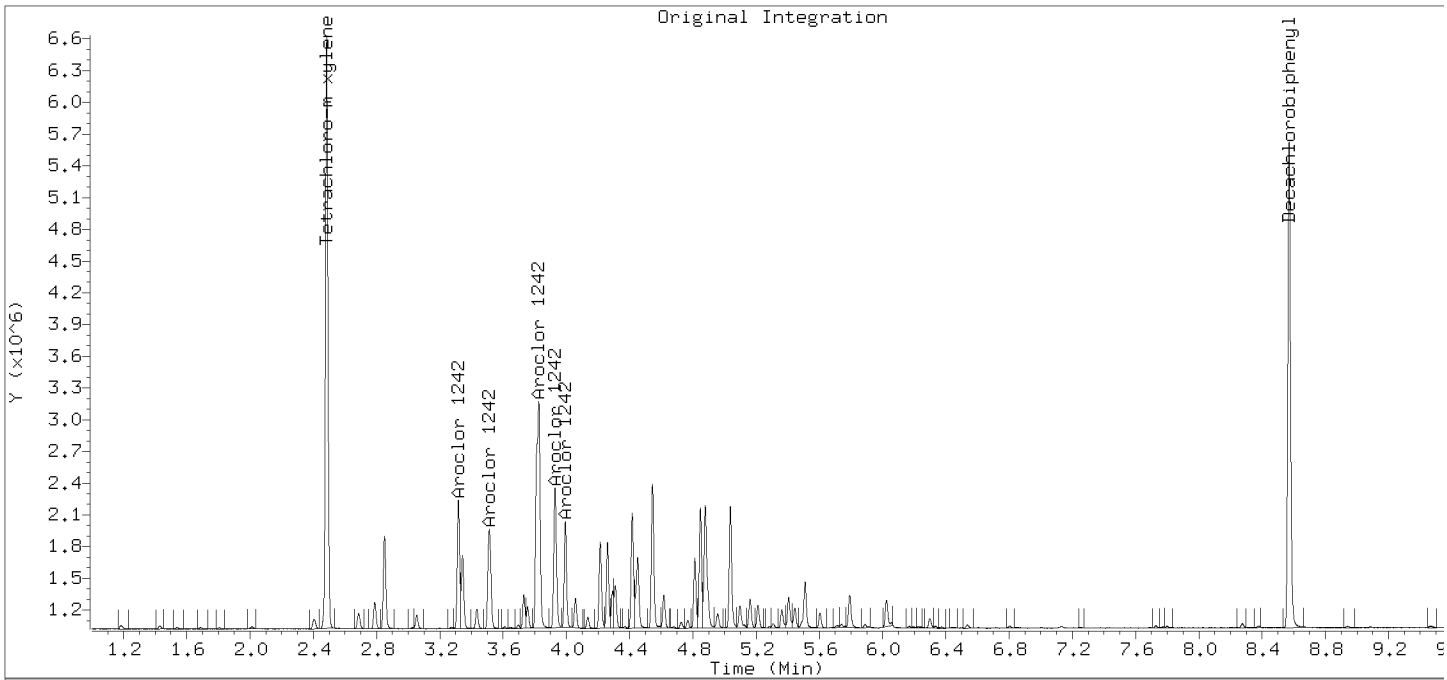
Operator: BLM

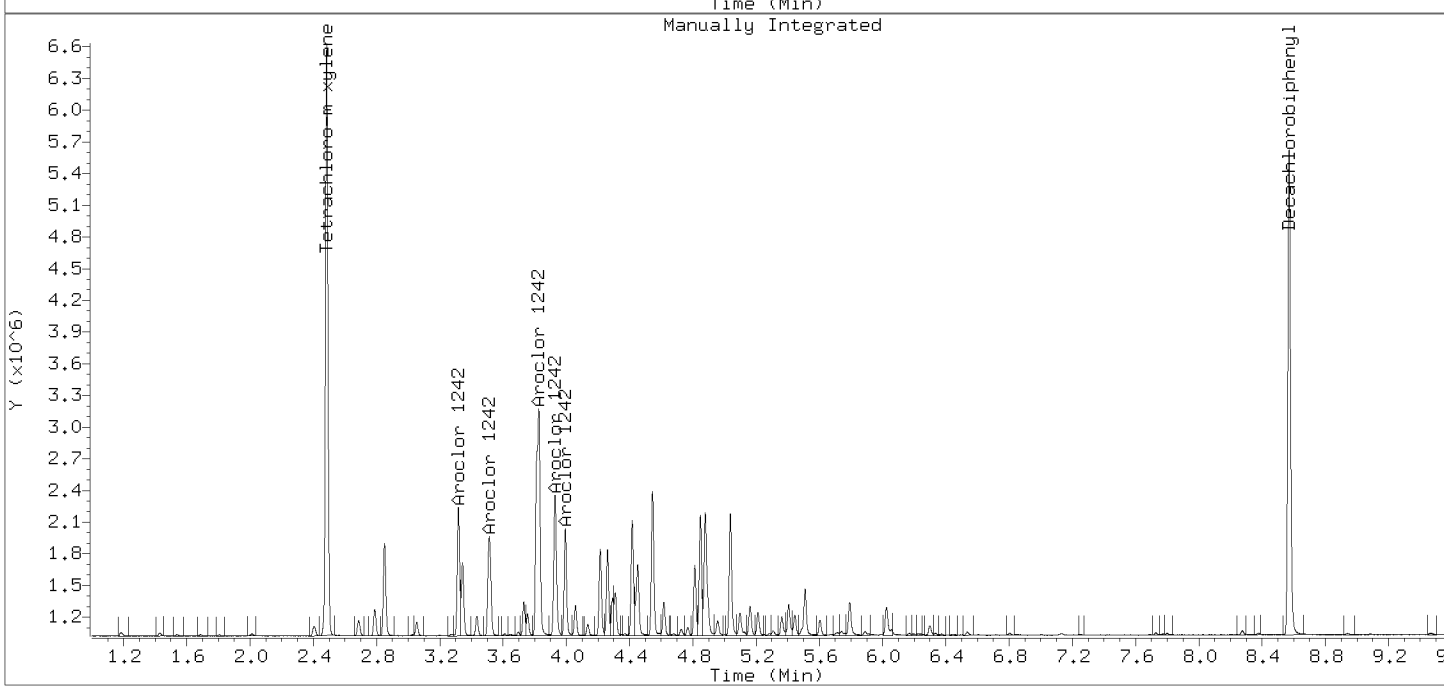
Column phase: ZB-1ms

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.: 40157830

Date Extracted: 04/06/2018 07:14

Lab Sample ID: 1669842

Date Analyzed: 04/10/2018 14:22

Lab File ID: 041018.B\041018008.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\041018.b\041018008.D
Lab Smp Id: 1669842 Client Smp ID: MB
Inj Date : 10-APR-2018 14:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1669842,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 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
1.187	17798	12521	0.704	0.09		
1.427	12796	7888	0.616	0.06		
2.009	12767	7664	0.600	0.06		
2.198	16828	14813	0.880	0.08		
2.485	8899270	8460069	0.951	47.29	$ 2 Tetrachloro-m-xylene	
2.786	16280	14338	0.881	0.08		
4.289	10326	9713	0.941	0.05		
5.033	9460	5850	0.618	0.05		
5.379	11011	5051	0.459	0.05		
5.508	9716	8260	0.850	0.05		
5.786	10672	8681	0.813	0.05		
6.348	11901	6501	0.546	0.06		
7.123	17993	14346	0.797	0.09		
7.687	13151	10025	0.762	0.06		
7.726	48754	43098	0.884	0.25		
7.797	39773	32573	0.819	0.21		
8.273	88608	71430	0.806	0.47		
8.373	12842	9057	0.705	0.06		
8.571	9557387	8170304	0.855	50.89	$ 12 Decachlorobiphenyl	
	18817333	16912182		100.000		

Total unknown % area = 1.8

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018008.D
Lab Smp Id: 1669842 Client Smp ID: MB
Inj Date : 10-APR-2018 14:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1669842,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 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		
2.484	2.484	0.000	8899270	0.07218	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).

---

6 Aroclor 1248 CAS #: 12672-29-6

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

---

7 Aroclor 1254 CAS #: 11097-69-1

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

---

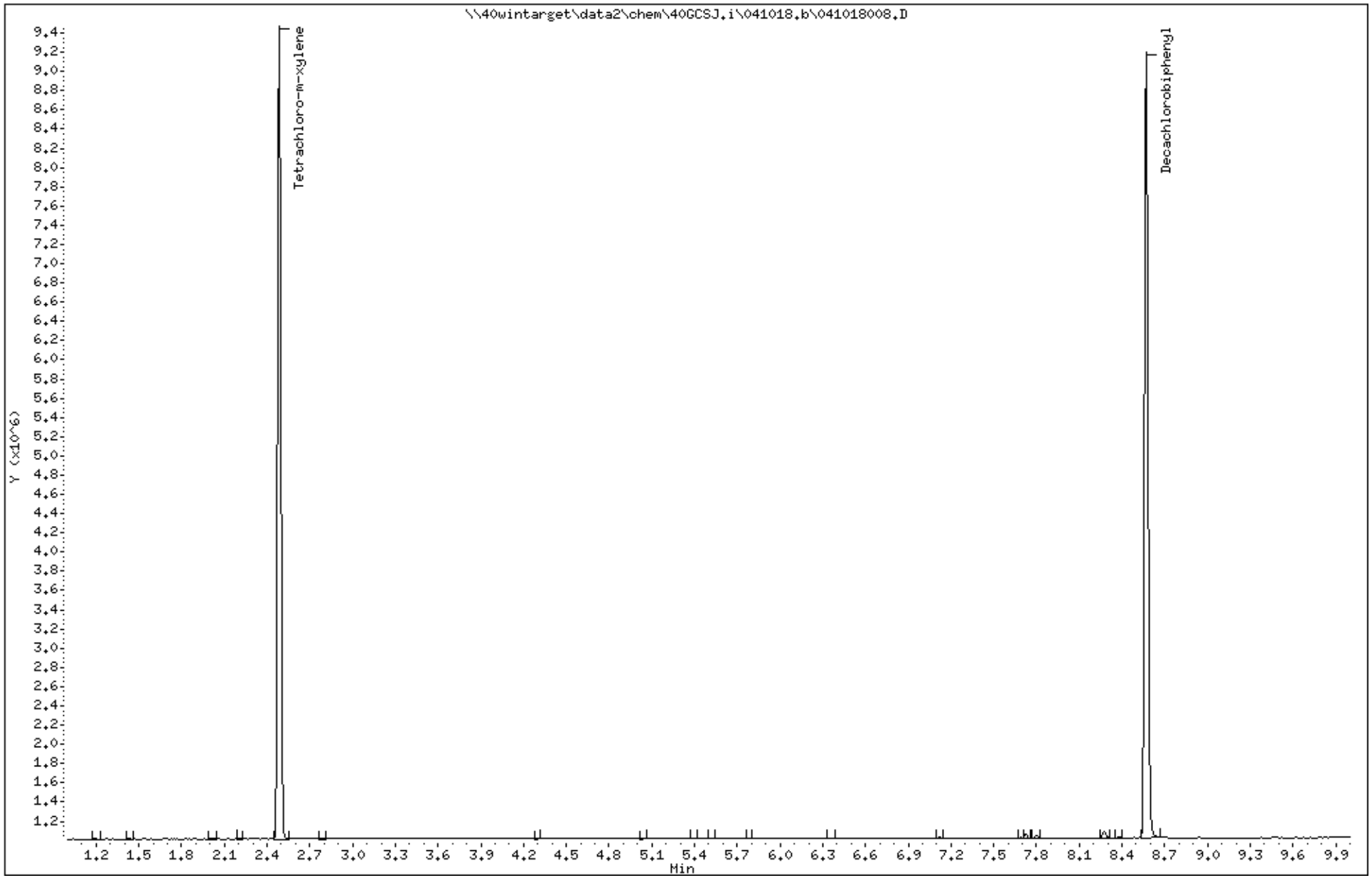
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9557386	0.08723	44			

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018008.D
Date : 10-APR-2018 14:22
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1669842,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 14:22 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1669842

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	8899270	8899270	
Decachlorobiphenyl	9557386	9557386	

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.: 40157830

Date Extracted: 04/06/2018 07:14

Lab Sample ID: 1669843

Date Analyzed: 04/10/2018 14:38

Lab File ID: 041018.B\041018009.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)	224	
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\041018.b\041018009.D
Lab Smp Id: 1669843 Client Smp ID: MBLCS
Inj Date : 10-APR-2018 14:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1669843,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 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
1.181	9734	7616	0.782	0.02		
1.682	11332	8754	0.773	0.02		
1.807	16441	12787	0.778	0.03		
2.200	18584	15707	0.845	0.04		
2.405	109417	83291	0.761	0.24		
2.485	10436265	9573622	0.917	23.85	$ 2 Tetrachloro-m-xylene	
2.688	168834	135977	0.805	0.38		
2.790	204881	182915	0.893	0.46		
2.851	892427	786259	0.881	2.01		
3.057	122131	104366	0.855	0.27		
3.274	20718	15887	0.767	0.04		
3.318	1152204	1053966	0.915	2.59	3 Aroclor 1242	BA
3.345	651891	597716	0.917	1.46		
3.434	182513	162721	0.892	0.41		
3.514	1123437	794038	0.707	2.53	3 Aroclor 1242	BA
3.649	19862	12109	0.610	0.04		
3.696	31485	32998	1.048	0.07		
3.732	294251	283055	0.962	0.66		
3.755	188676	179820	0.953	0.42		
3.826	3206527	1824160	0.569	7.22	3 Aroclor 1242	BA
3.930	1374089	1133508	0.825	3.09	3 Aroclor 1242	BA
3.995	891485	837185	0.939	2.00	3 Aroclor 1242	BA
4.058	253478	225249	0.889	0.57		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.135	108453	88908	0.820	0.24	
4.215	760200	725971	0.955	1.71	
4.261	716031	681772	0.952	1.61	
4.293	298512	301565	1.010	0.67	
4.310	358003	333923	0.933	0.80	
4.370	25108	17703	0.705	0.05	
4.417	985496	914080	0.928	2.22	
4.451	763663	548652	0.718	1.72	
4.545	1261830	1098238	0.870	2.84	
4.617	290130	264049	0.910	0.65	
4.679	19270	16210	0.841	0.04	
4.726	61857	52843	0.854	0.13	
4.768	70908	61324	0.865	0.15	
4.813	559494	523687	0.936	1.26	
4.848	1000565	927443	0.927	2.25	
4.878	1289454	922308	0.715	2.90	
4.956	143766	108015	0.751	0.32	
5.037	1037284	914196	0.881	2.33	
5.098	229173	170168	0.743	0.51	
5.161	256138	222584	0.869	0.57	
5.211	192266	165868	0.863	0.43	
5.283	16088	14879	0.925	0.03	
5.309	45708	36568	0.800	0.10	
5.363	167146	136293	0.815	0.37	
5.406	260084	226021	0.869	0.58	
5.446	170656	142440	0.835	0.38	
5.509	439373	328392	0.747	0.98	
5.604	135073	108887	0.806	0.30	
5.678	15593	13448	0.862	0.03	
5.715	25390	20400	0.803	0.05	
5.742	46585	28486	0.611	0.10	
5.792	281282	213498	0.759	0.63	
5.889	45113	28328	0.628	0.10	
6.023	260796	187292	0.718	0.58	
6.167	24106	15842	0.657	0.05	
6.299	58374	50054	0.857	0.13	
6.335	15795	9876	0.625	0.03	
6.510	10084	8704	0.863	0.02	
6.537	17242	15222	0.883	0.03	
6.715	12644	11673	0.923	0.02	
6.799	9971	10253	1.028	0.02	
7.005	21915	16371	0.747	0.04	
7.123	15231	15214	0.999	0.03	
7.252	9232	8348	0.904	0.02	
7.386	10758	9397	0.874	0.02	
7.689	12527	12216	0.975	0.02	
7.726	52608	46042	0.875	0.11	
7.800	46320	37406	0.808	0.10	
8.275	90164	79137	0.878	0.20	
8.377	13644	11781	0.863	0.03	
8.570	10244646	8792900	0.858	23.08	$ 12 Decachlorobiphenyl
	44382414	37758581		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018009.D
Lab Smp Id: 1669843 Client Smp ID: MBLCS
Inj Date : 10-APR-2018 14:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1669843,
Misc Info : 17642,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	10436265	0.08464	42			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1152204	0.45484	230	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1123437	0.44580	220	0.00- 20.00	97.50	BA
3.826	3.827	-0.001	3206527	0.45058	220	0.00- 20.00	278.30	BA
3.929	3.929	0.000	1374088	0.45177	220	0.00- 20.00	119.26	BA
3.994	3.995	-0.001	891484	0.43535	220	0.00- 20.00	77.37	BA
Average of Peak Concentrations =					220			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	10244646	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\041018.b\041018009.D

Date : 10-APR-2018 14:38

Client ID: MBLCS

Instrument: 40GCSJ.i

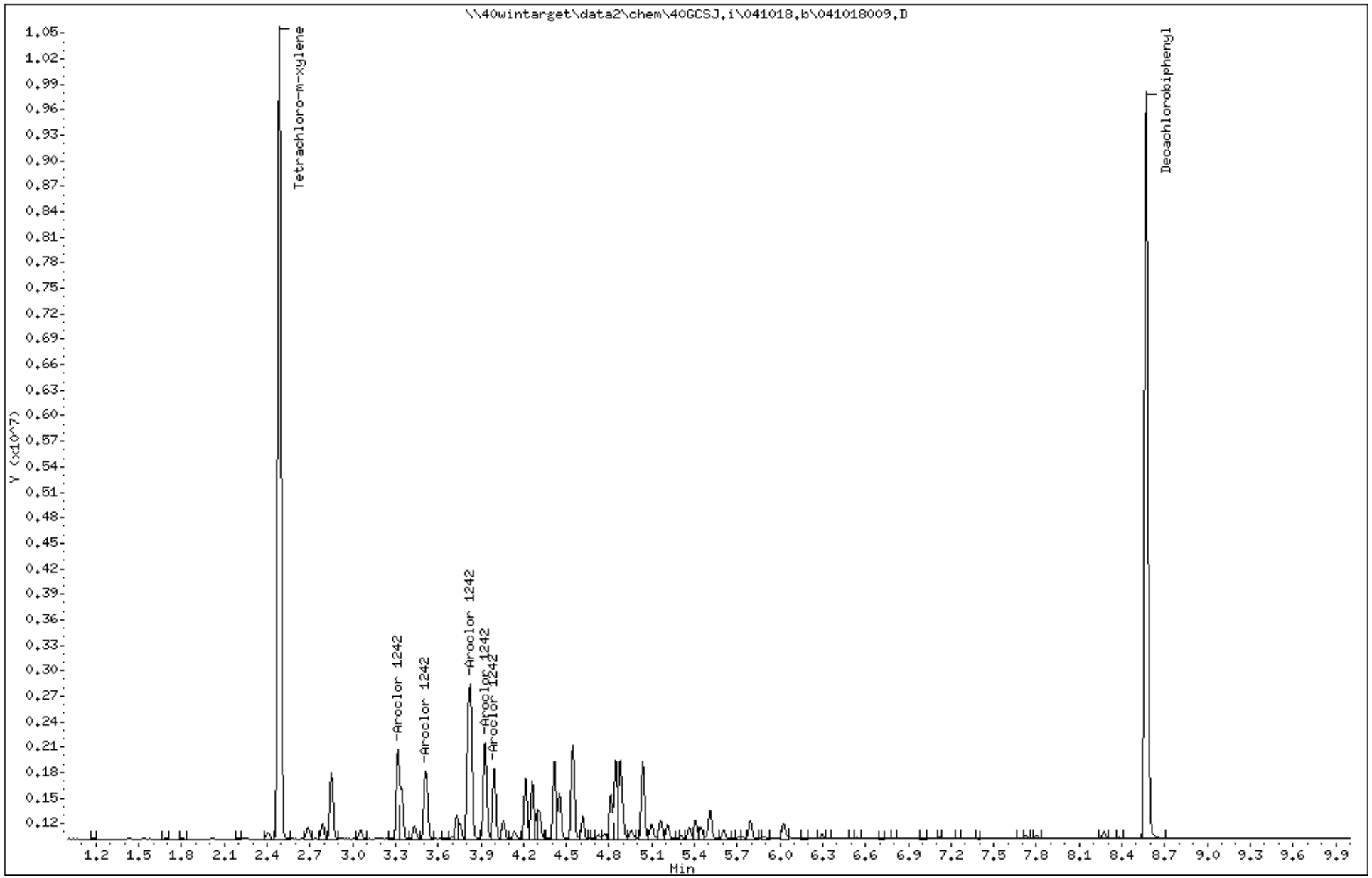
Sample Info: 1669843,

Volume Injected (uL): 1.0

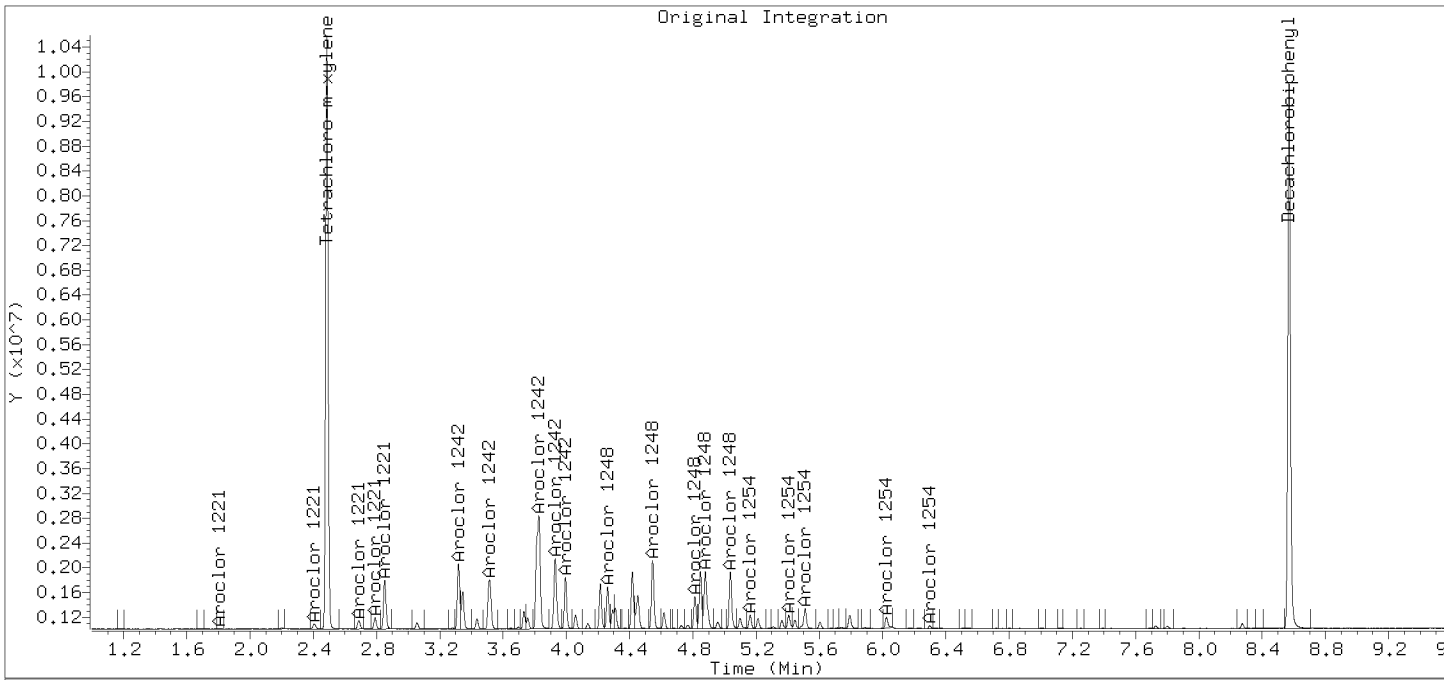
Operator: BLM

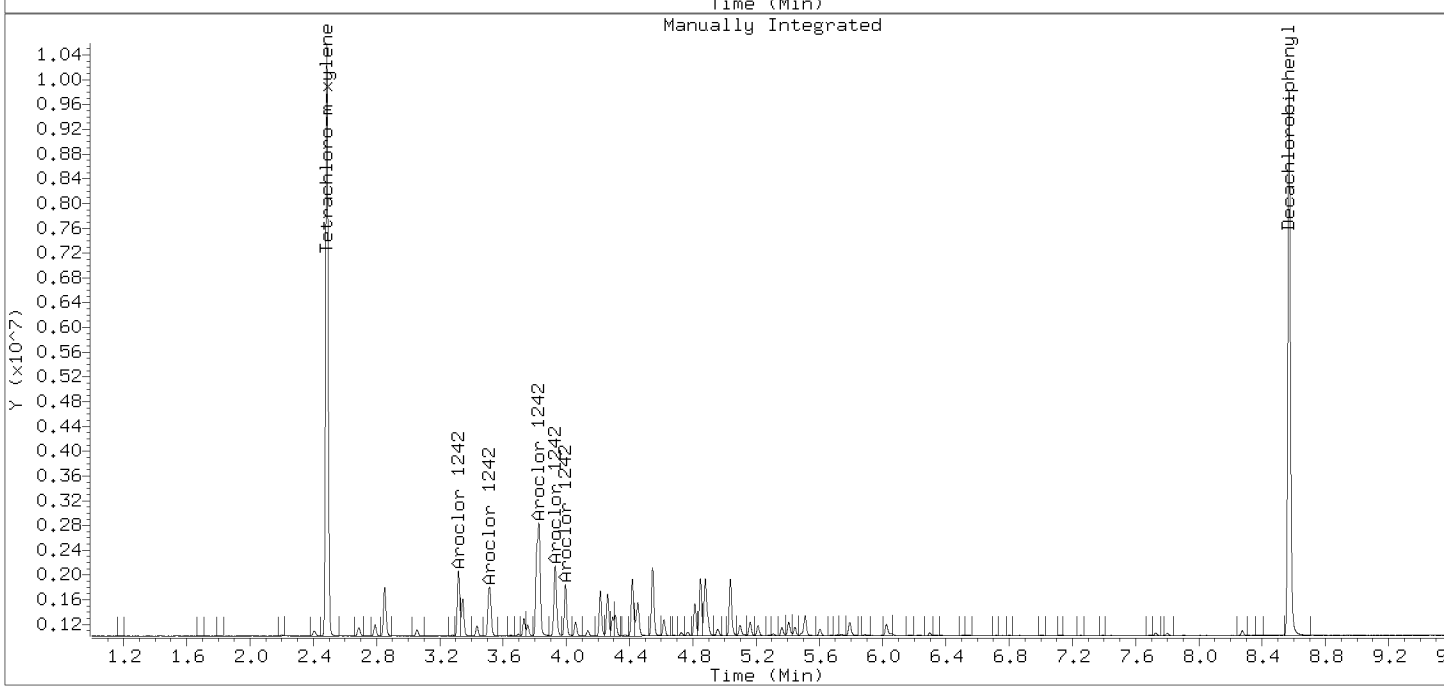
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 14:38 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1669843





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1148210	0	
Aroclor 1016	1148210	0	
Aroclor 1016	1148210	0	
Aroclor 1016	1148210	0	
Aroclor 1016	1148210	0	
Aroclor 1221	16441	0	
Aroclor 1221	16441	0	
Aroclor 1221	16441	0	
Aroclor 1221	16441	0	
Aroclor 1221	16441	0	
Aroclor 1232	882082	0	
Aroclor 1232	882082	0	
Aroclor 1232	882082	0	
Aroclor 1232	882082	0	

Aroclor 1232	882082	0	
Aroclor 1242	1148210	1152204	BA
Aroclor 1242	1148210	1152204	BA
Aroclor 1242	1148210	1152204	BA
Aroclor 1242	1148210	1152204	BA
Aroclor 1242	1148210	1152204	BA
Aroclor 1248	706354	0	
Aroclor 1248	706354	0	
Aroclor 1248	706354	0	
Aroclor 1248	706354	0	
Aroclor 1248	706354	0	
Aroclor 1254	246211	0	
Aroclor 1254	246211	0	
Aroclor 1254	246211	0	
Aroclor 1254	246211	0	
Aroclor 1254	246211	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10436265	10436265	
Decachlorobiphenyl	10244646	10244646	

==========

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.: 40157830

Date Extracted: 04/10/2018 07:13

Lab Sample ID: 1671063

Date Analyzed: 04/11/2018 15:19

Lab File ID: 041118.B\041118007.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118007.D
Lab Smp Id: 1671063 Client Smp ID: MB
Inj Date : 11-APR-2018 15:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671063,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.431	10939	8677	0.793	0.05		
2.199	30973	16691	0.539	0.15		
2.485	9099391	8380032	0.921	46.60	$ 2 Tetrachloro-m-xylene	
2.789	17450	15327	0.878	0.08		
4.050	9696	6833	0.705	0.04		
5.950	9574	8297	0.867	0.04		
6.867	13145	10091	0.768	0.06		
7.120	29441	22103	0.751	0.15		
7.694	14662	12222	0.834	0.07		
7.726	60128	50369	0.838	0.30		
7.801	59480	47179	0.793	0.30		
8.274	93053	80601	0.866	0.47		
8.379	23305	16752	0.719	0.11		
8.570	9980347	8494283	0.851	51.22	$ 12 Decachlorobiphenyl	
8.944	25252	16330	0.647	0.12		
9.465	24632	17524	0.711	0.12		
9.963	23629	18999	0.804	0.12		
	19525098	17222310		100.000		

Total unknown % area = 2.2

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118007.D
Lab Smp Id: 1671063 Client Smp ID: MB
Inj Date : 11-APR-2018 15:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1671063,
Misc Info : 17653,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041118.b\pcba030618.m
Meth Date : 18-Apr-2018 10:21 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	9099390	0.07380	37			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

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

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7 Aroclor 1254 CAS #: 11097-69-1

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

---

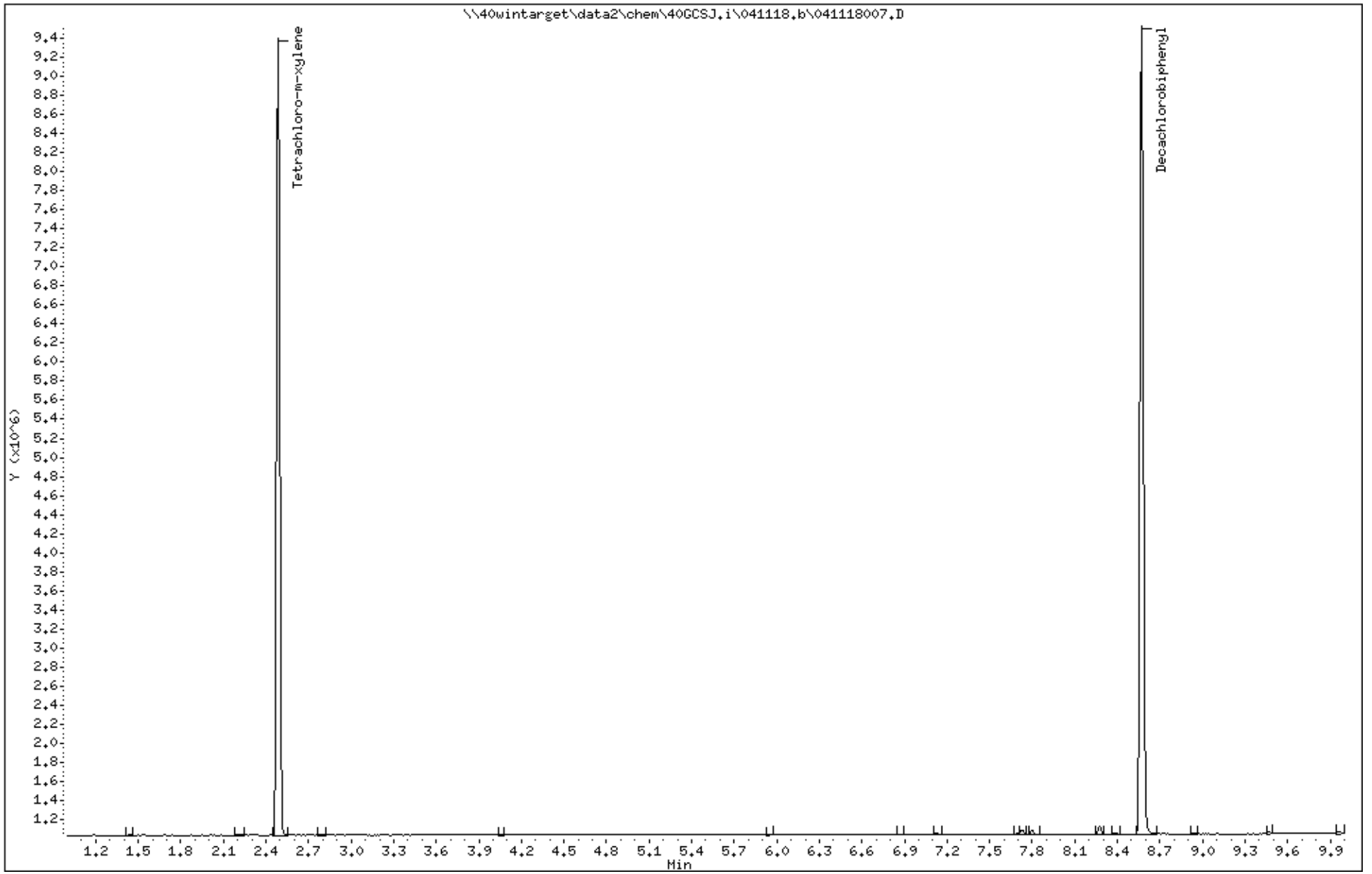
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9980346	0.09109	46			

Data File: \\40wintarget\data2\chem\40GCSJ.i\041118.b\041118007.D
Date : 11-APR-2018 15:19
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1671063,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



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

NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1016	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1248	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1254	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9099390	9099390	
Decachlorobiphenyl	9980346	9980346	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40157830

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	

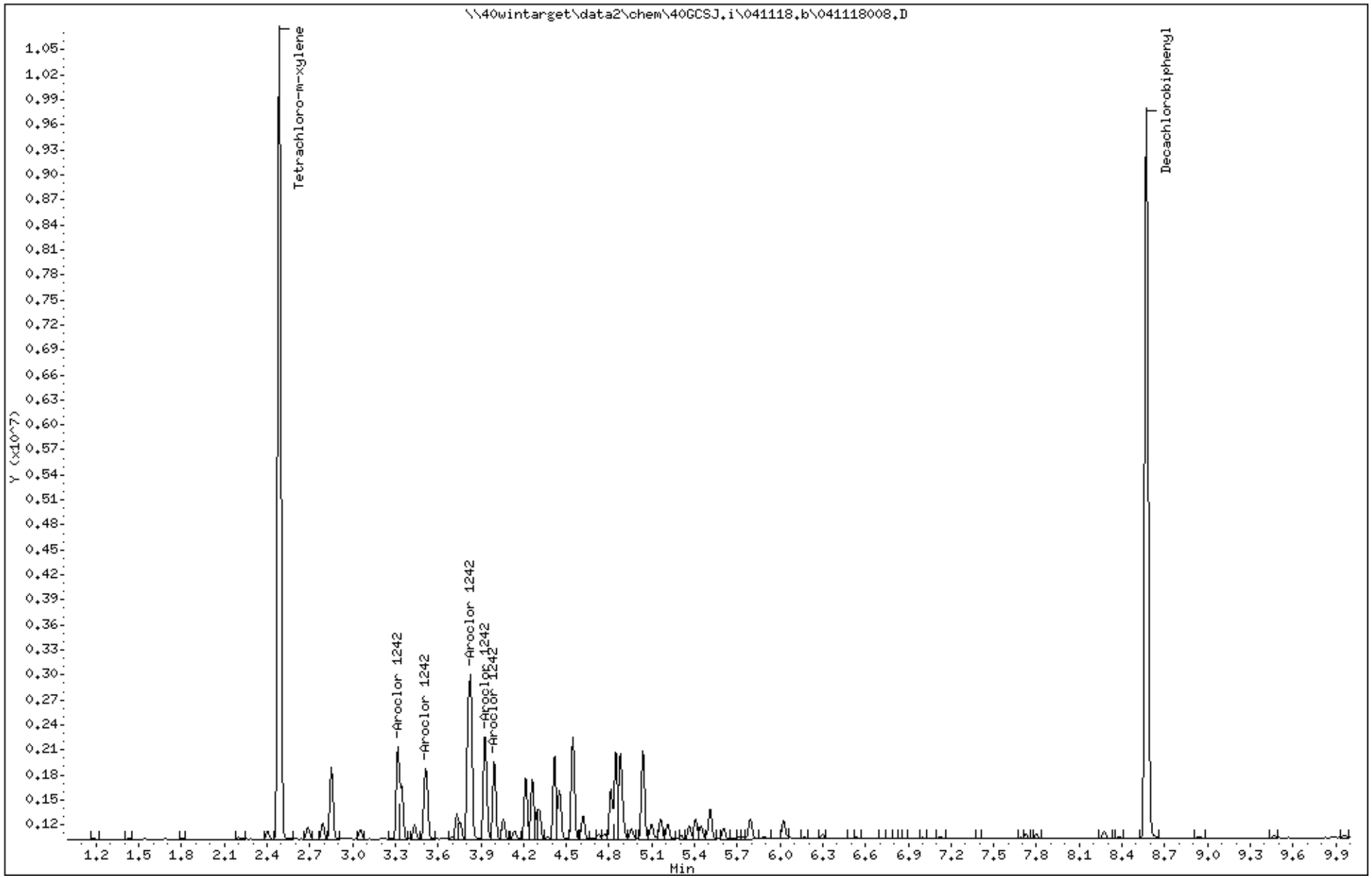
QC Flag Legend

M - Compound response manually integrated.

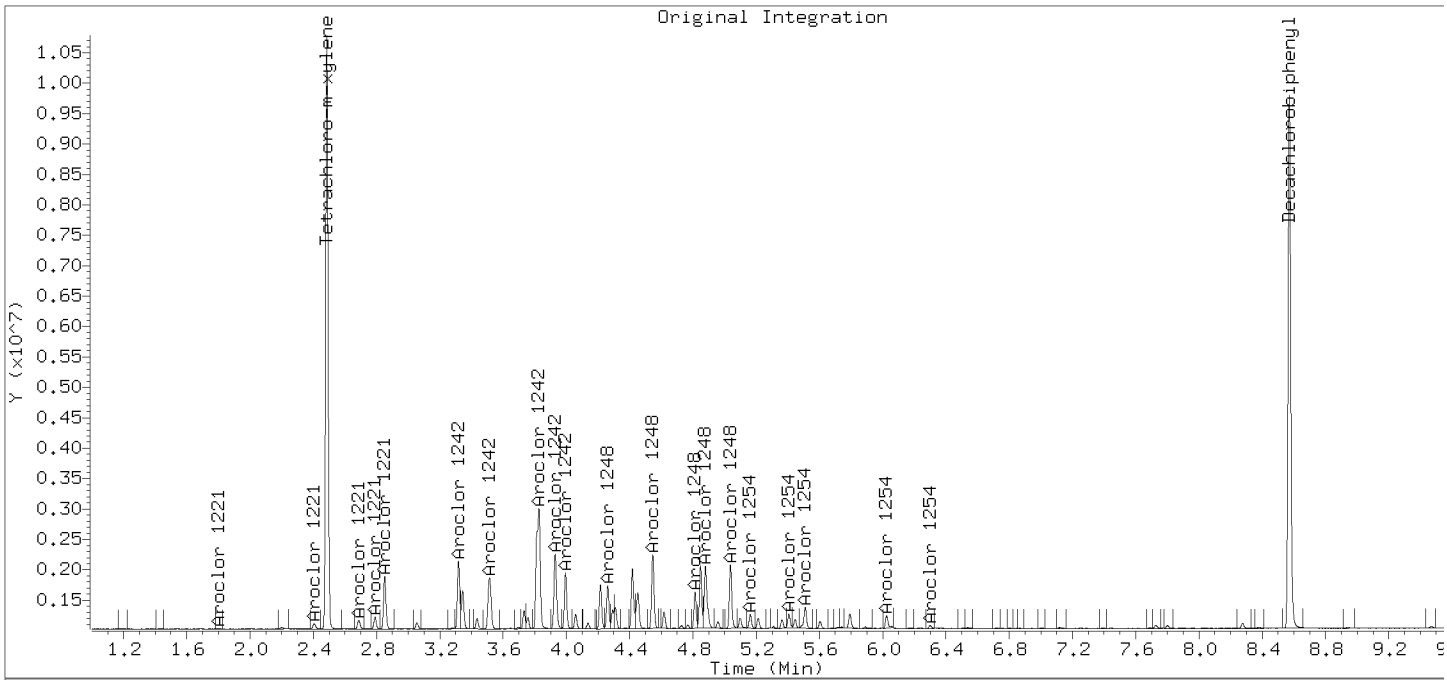
Review Codes Legend

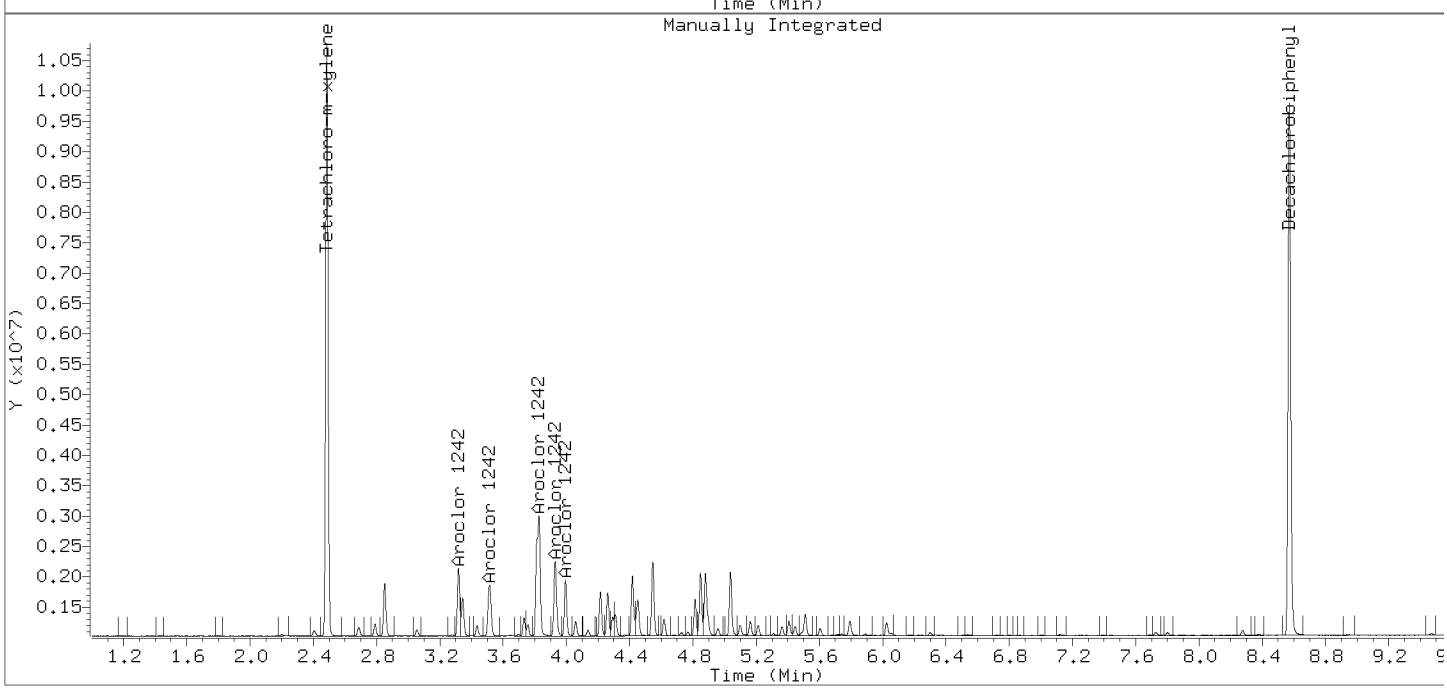
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

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.: 40157830

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).

---

6 Aroclor 1248 CAS #: 12672-29-6

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

---

7 Aroclor 1254 CAS #: 11097-69-1

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

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.571	8.571	0.000	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

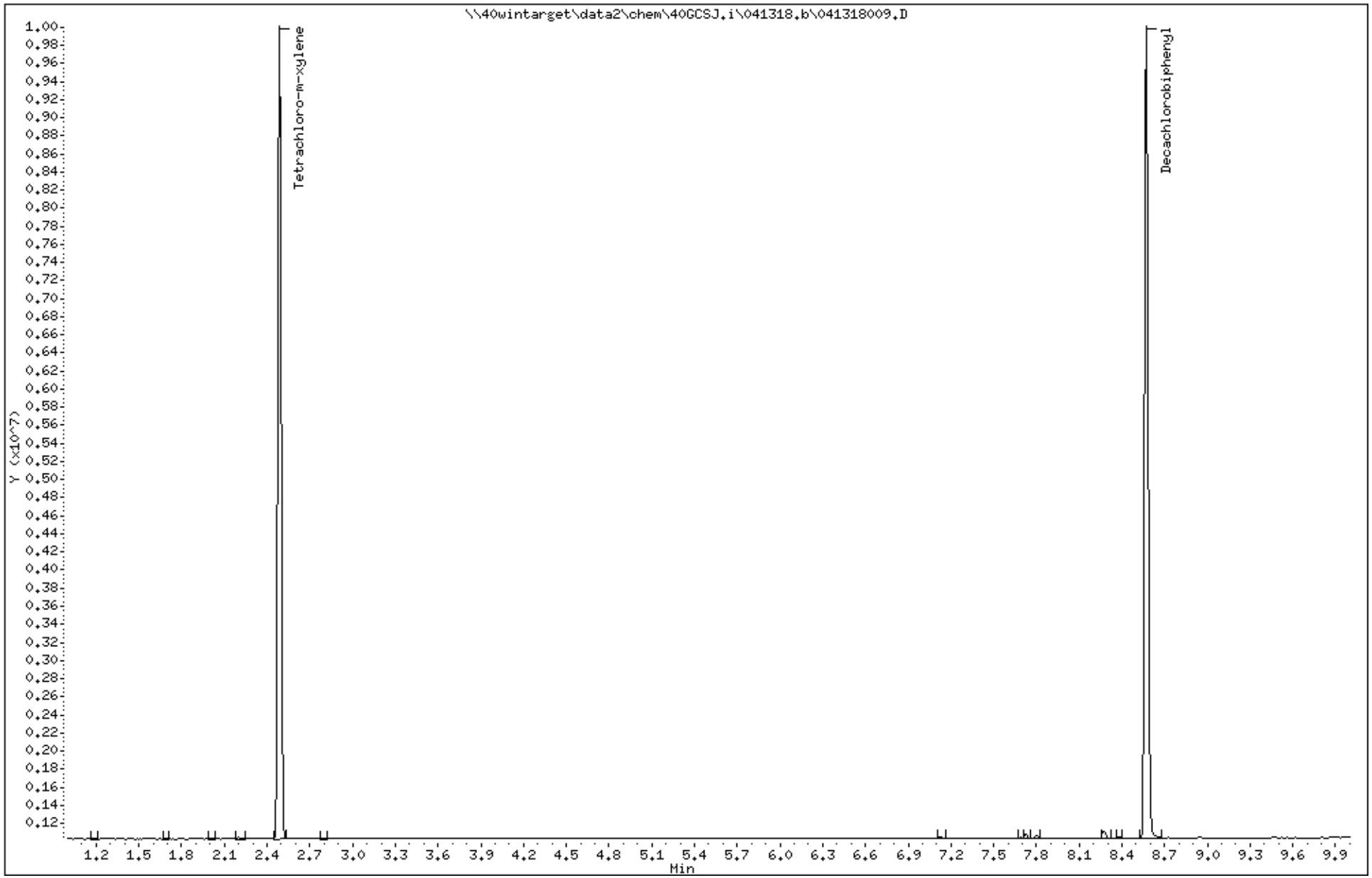
Sample Info: 1672269,

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.: 40157830

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

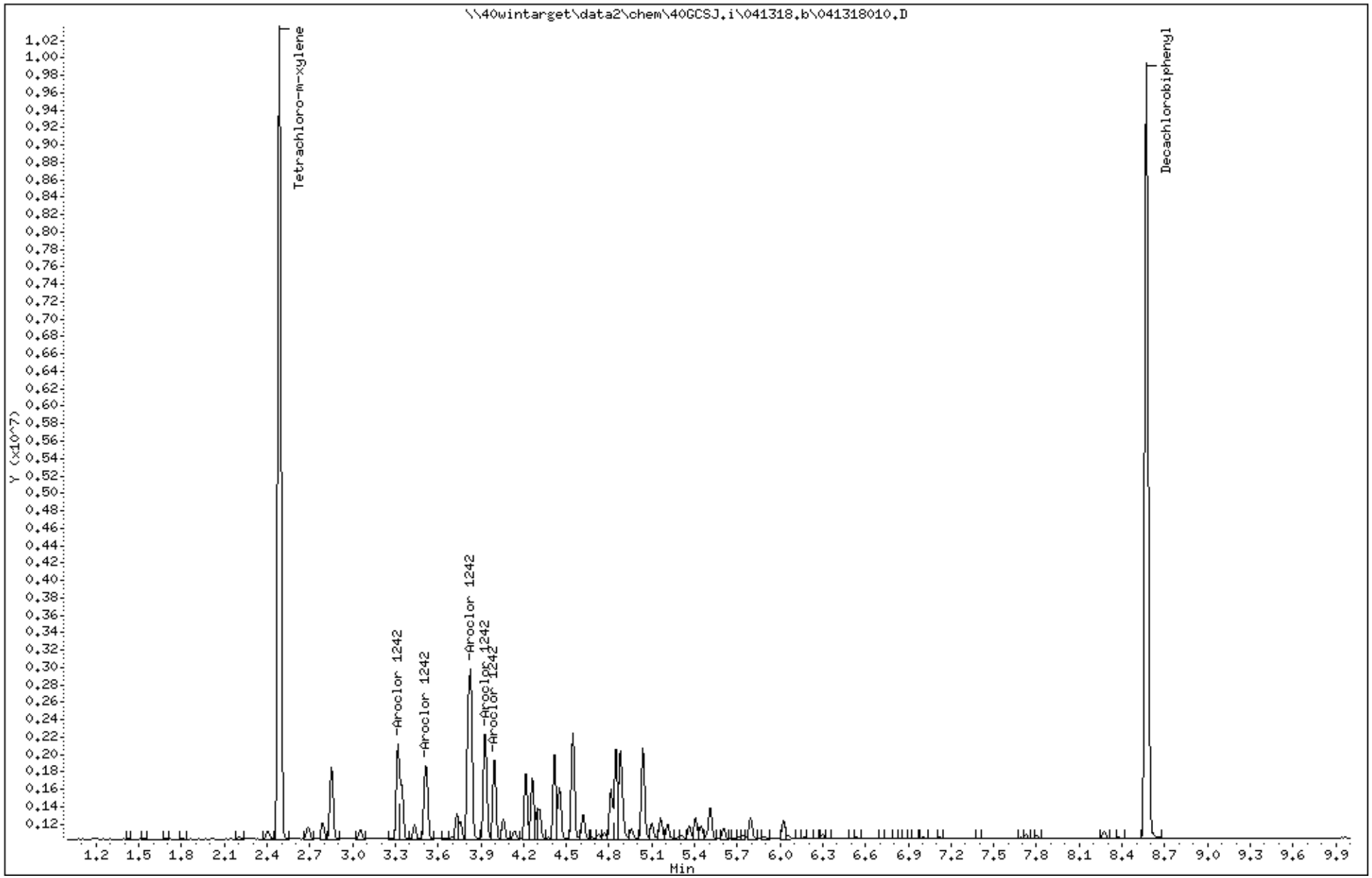
Sample Info: 1672270,

Volume Injected (uL): 1.0

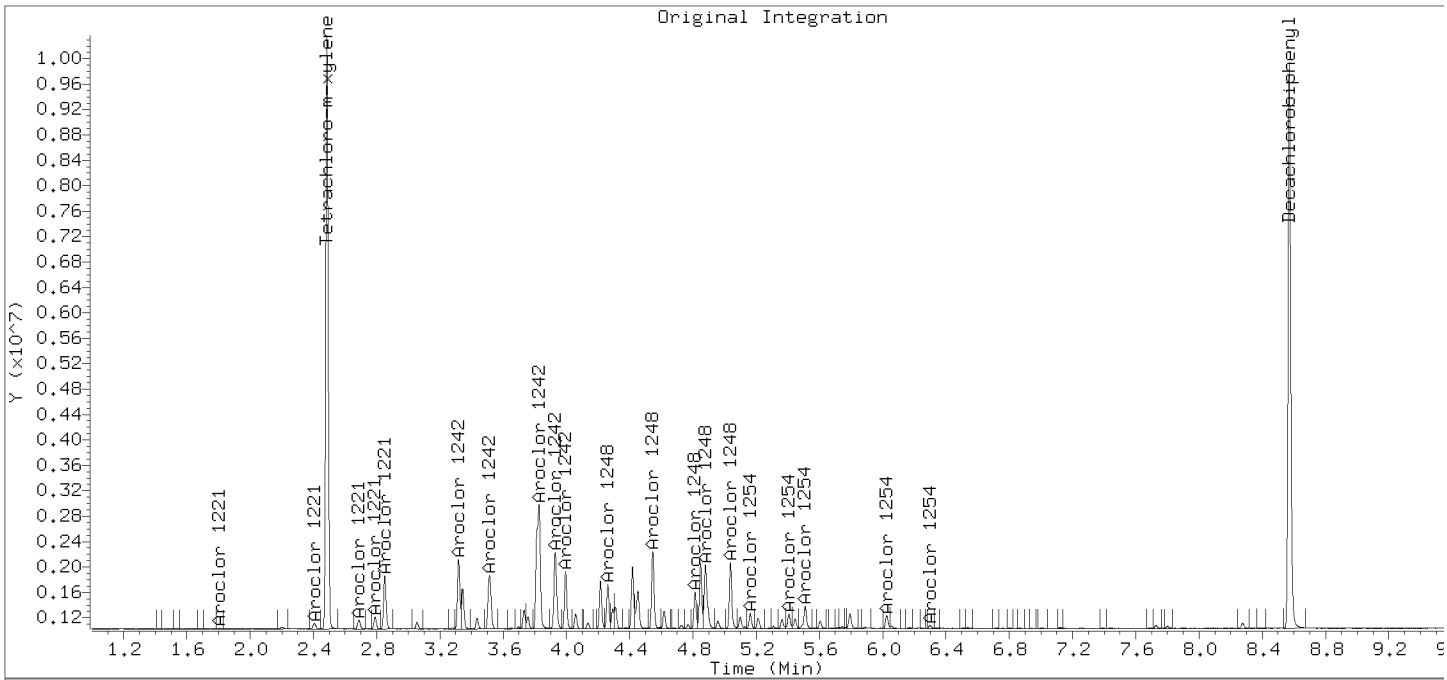
Operator: BLM

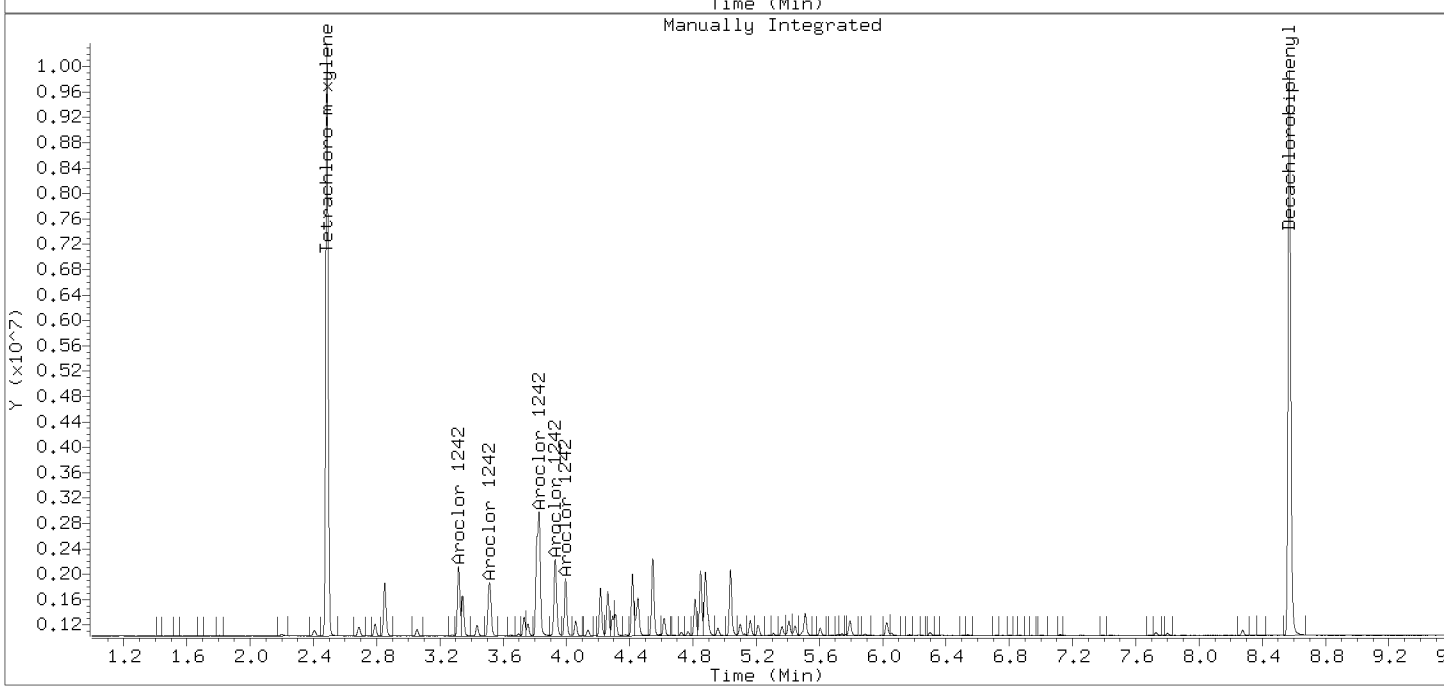
Column phase: ZB-1ms

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.

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.: 40157830

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).

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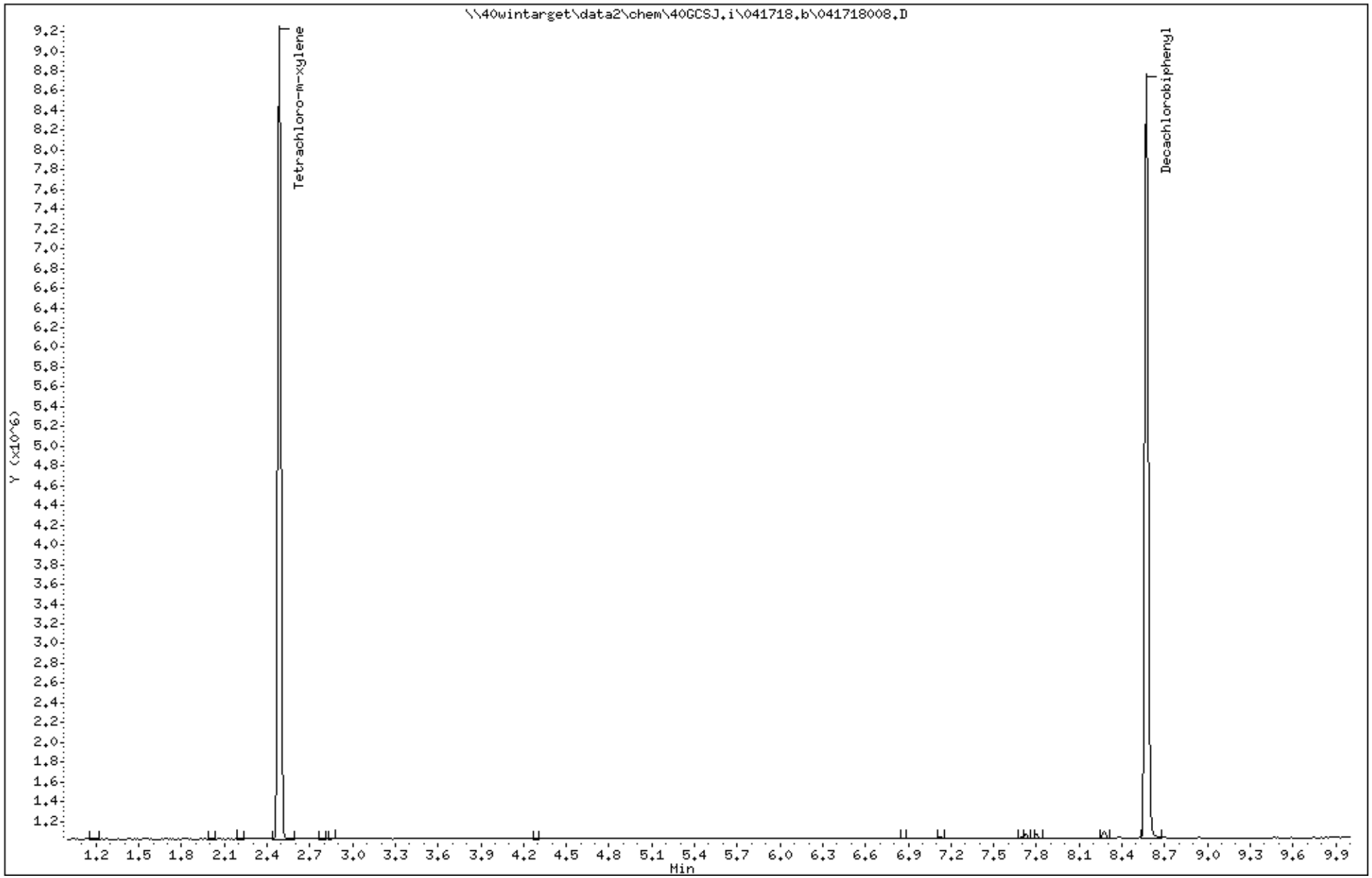
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.571	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.: 40157830

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

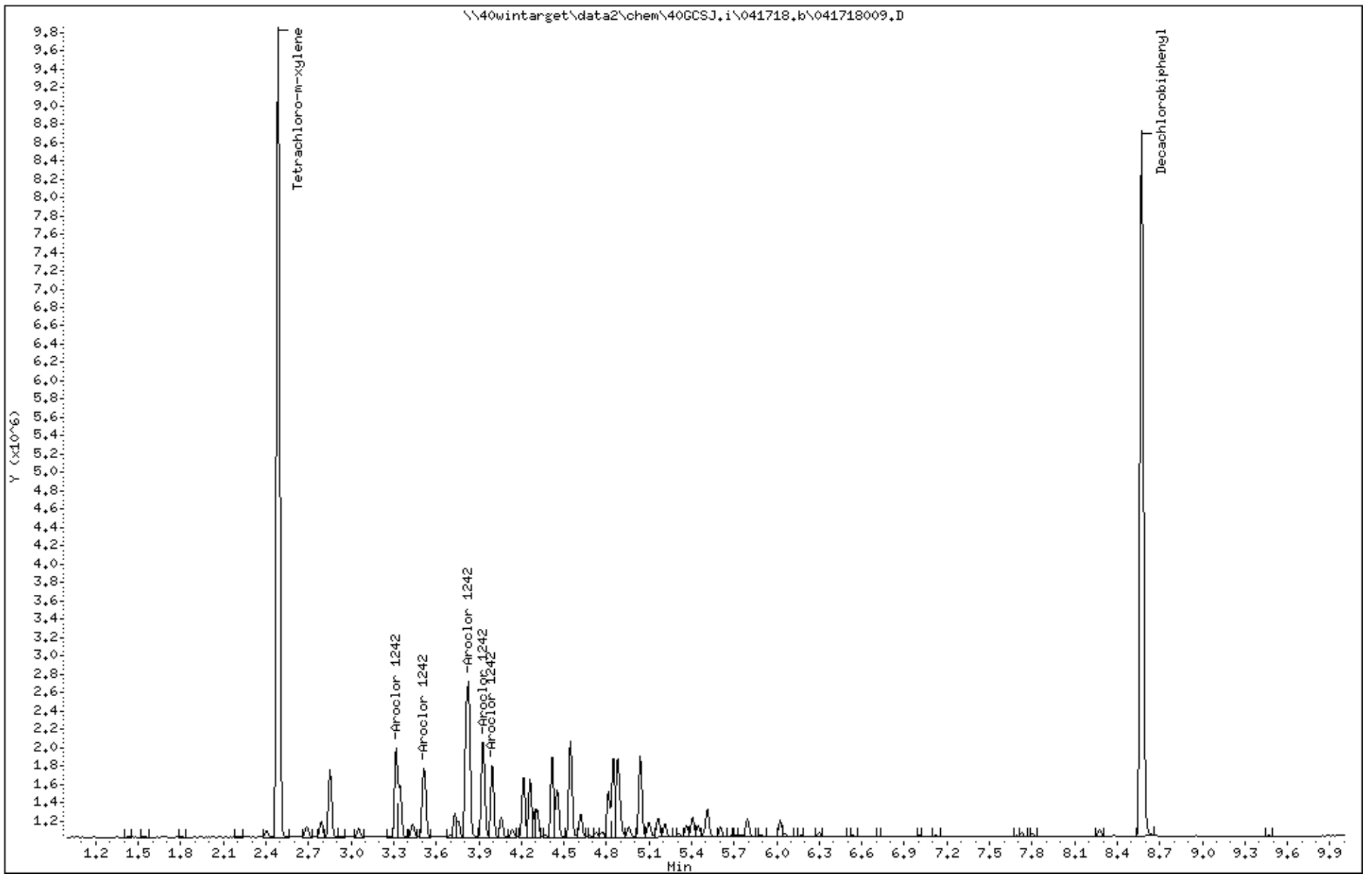
Sample Info: 1673129,

Volume Injected (uL): 1.0

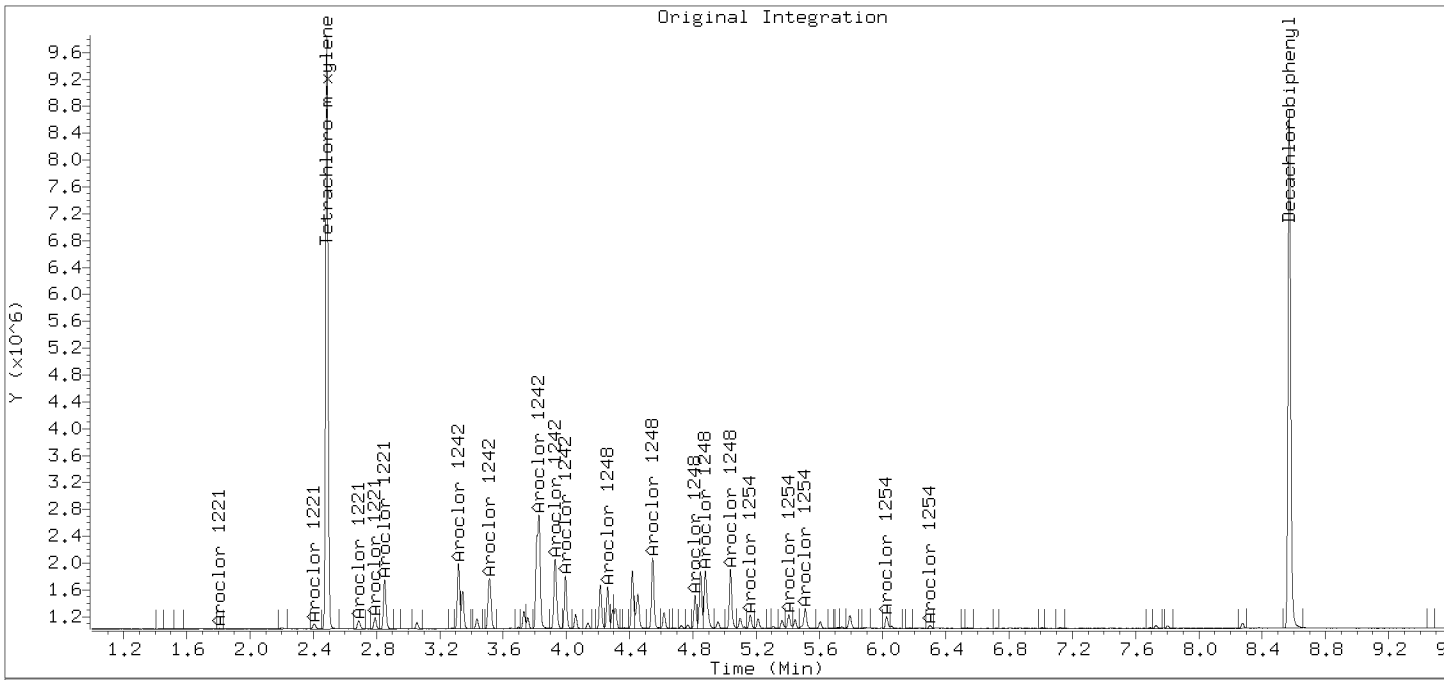
Operator: BLM

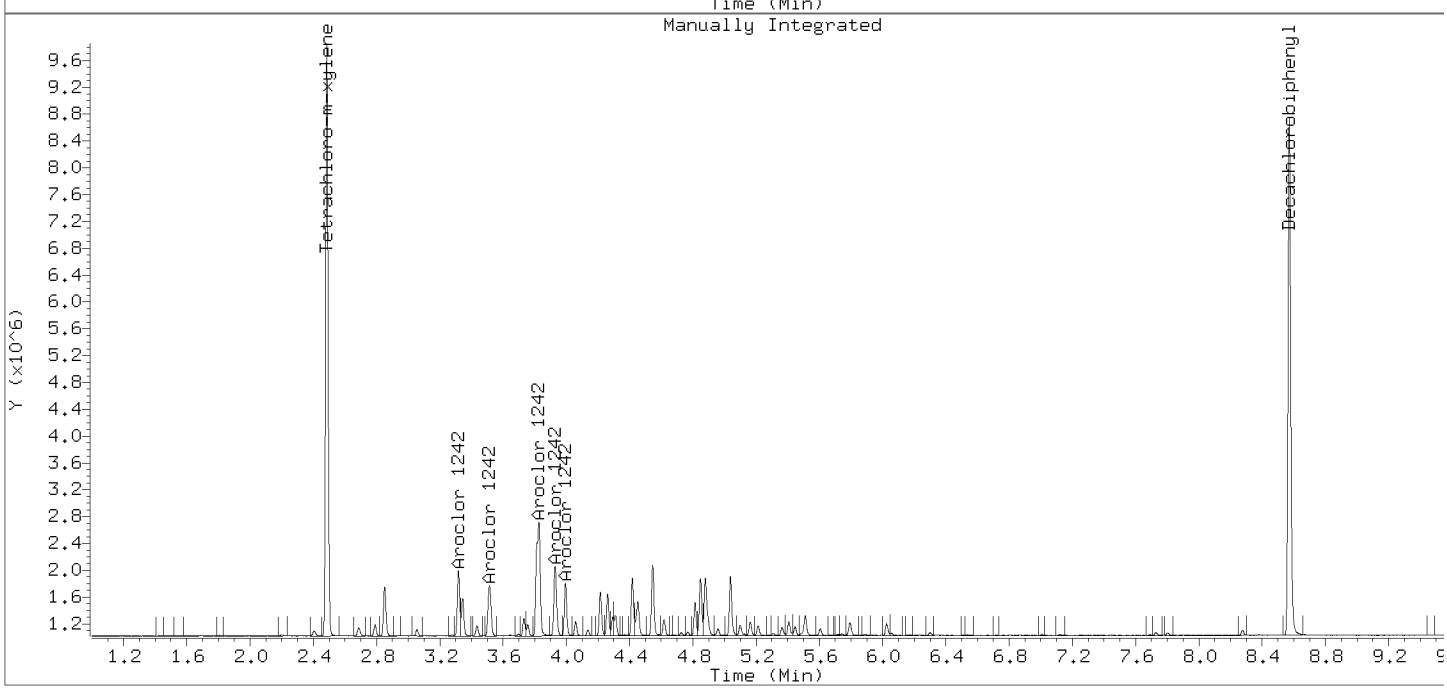
Column phase: ZB-1ms

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: 10/03/2017 14:25

Matrix: Tissue SDG No.: 40157830

Date Extracted: 04/13/2018 07:19

Lab Sample ID: 1673133

Date Analyzed: 04/17/2018 17:12

Lab File ID: 041718.B\041718024.D

Initial wt/vol: 9.9747 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)	584	
11097-69-1	PCB-1254 (Aroclor 1254)	425	
11096-82-5	PCB-1260 (Aroclor 1260)	145	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718024.D
Lab Smp Id: 1673133 Client Smp ID: TD5-170619-01-BB-11
Inj Date : 17-APR-2018 17:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1673133 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: 24 QC Sample: FIELDDUP
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * 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	9.975	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.485	3909919	3556505	0.910	8.68	$ 2 Tetrachloro-m-xylene	
2.789	14716	13172	0.895	0.03		
2.849	32052	22978	0.717	0.06		
2.975	14214	10150	0.714	0.02		
3.020	11354	10980	0.967	0.02		
3.317	34195	31397	0.918	0.07		
3.343	19165	19440	1.014	0.04		
3.432	29271	28566	0.976	0.06		
3.519	69512	61140	0.880	0.14		
3.646	22625	16046	0.709	0.04		
3.731	93229	78066	0.837	0.19		
3.827	456369	340820	0.747	0.95		
3.932	39802	25672	0.645	0.08		
3.995	84775	75737	0.893	0.17		
4.053	82958	62743	0.756	0.17		
4.215	394403	307754	0.780	0.82		
4.260	790182	758405	0.960	1.65	6 Aroclor 1248	BA
4.292	2513619	2142750	0.852	5.26		
4.349	42390	32255	0.761	0.08		
4.417	399422	369446	0.925	0.83		
4.452	224952	198615	0.883	0.47		
4.546	1121918	1040516	0.927	2.35	6 Aroclor 1248	BA
4.588	251095	232197	0.925	0.52		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.616	73525	65447	0.890	0.15	
4.679	144109	124473	0.864	0.30	
4.737	149099	130614	0.876	0.31	
4.767	460378	434547	0.944	0.96	
4.812	1155279	1076174	0.932	2.42	6 Aroclor 1248
4.848	166086	159358	0.959	0.34	
4.879	2518358	1480696	0.588	5.27	6 Aroclor 1248
4.957	383462	322314	0.841	0.80	
5.037	951888	882934	0.928	1.99	6 Aroclor 1248
5.101	1324552	1152646	0.870	2.77	
5.158	904024	754949	0.835	1.89	7 Aroclor 1254
5.212	983284	814286	0.828	2.06	
5.284	226508	226827	1.001	0.47	
5.306	442707	385914	0.872	0.92	
5.361	438348	374334	0.854	0.91	
5.406	1173661	1043578	0.889	2.45	7 Aroclor 1254
5.446	788088	668351	0.848	1.65	
5.477	155290	149243	0.961	0.32	
5.509	2114990	1808882	0.855	4.43	7 Aroclor 1254
5.577	94077	88570	0.941	0.19	
5.603	293698	252224	0.859	0.61	
5.674	753803	709185	0.941	1.57	
5.709	379989	321298	0.846	0.79	
5.742	526154	403303	0.767	1.10	
5.790	2705229	2091580	0.773	5.66	
5.885	343239	263014	0.766	0.71	
5.930	318341	251585	0.790	0.66	
5.993	604939	561044	0.927	1.26	
6.024	1431809	1187790	0.830	3.00	7 Aroclor 1254
6.055	704307	605129	0.859	1.47	
6.169	464080	298474	0.643	0.97	
6.226	146547	182120	1.243	0.30	
6.241	278215	214728	0.772	0.58	
6.300	2601839	2140898	0.823	5.45	7 Aroclor 1254
6.332	253856	234364	0.923	0.53	
6.372	136263	112385	0.825	0.28	
6.432	311810	254522	0.816	0.65	
6.483	12688	20360	1.605	0.02	
6.509	684148	647886	0.947	1.43	
6.534	471751	423734	0.898	0.98	
6.559	174541	158463	0.908	0.36	
6.605	84570	70550	0.834	0.17	
6.660	52599	45818	0.871	0.11	
6.717	259325	229948	0.887	0.54	
6.757	301343	266305	0.884	0.63	
6.800	363401	322144	0.886	0.76	
6.839	161535	119977	0.743	0.33	
6.912	35541	33412	0.940	0.07	
6.942	153028	143843	0.940	0.32	
7.004	745069	676472	0.908	1.56	8 Aroclor 1260
7.034	68569	63503	0.926	0.14	
7.072	20290	14997	0.739	0.04	
7.121	34821	29450	0.846	0.07	
7.250	393154	350195	0.891	0.82	8 Aroclor 1260
7.279	125365	105672	0.843	0.26	
7.370	14755	16984	1.151	0.03	
7.389	268807	235949	0.878	0.56	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.442	332686	302502	0.909	0.69	8 Aroclor 1260
7.551	28183	20112	0.714	0.05	
7.690	87345	82187	0.941	0.18	
7.726	80377	69199	0.861	0.16	
7.776	23011	20130	0.875	0.04	
7.805	68221	37444	0.549	0.14	
7.899	300478	258683	0.861	0.62	8 Aroclor 1260
7.965	37866	22929	0.606	0.07	
8.048	80232	66752	0.832	0.16	
8.275	223058	194499	0.872	0.46	
8.375	61956	45851	0.740	0.12	
8.571	3797183	3371507	0.888	7.95	$ 12 Decachlorobiphenyl
8.723	13511	12420	0.919	0.02	
8.940	125277	79046	0.631	0.26	
9.056	13158	8987	0.683	0.02	
9.171	28316	23665	0.836	0.05	
9.464	210952	114162	0.541	0.44	
9.955	231964	128712	0.555	0.48	
	47723036	40497579		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041718.b\041718024.D
Lab Smp Id: 1673133 Client Smp ID: TD5-170619-01-BB-11
Inj Date : 17-APR-2018 17:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1673133 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: 24 QC Sample: FIELDDUP
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * 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	9.975	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

2.484	2.484	0.000	3909918	0.03171	48			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	790182	0.33726	510	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1121917	0.27032	410	0.00- 20.00	141.98	BA
4.812	4.812	0.000	1155279	0.56908	860	0.00- 20.00	146.20	BA
4.878	4.879	-0.001	2518357	0.49993	750	0.00- 20.00	318.71	BA
5.036	5.038	-0.002	951887	0.26526	400	0.00- 20.00	120.46	BA
Average of Peak Concentrations =					580			
7 Aroclor 1254					CAS #: 11097-69-1			
5.158	5.162	-0.004	904023	0.17268	260	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1173660	0.27288	410	0.00- 20.00	129.83	BA
5.508	5.510	-0.002	2114989	0.27234	410	0.00- 20.00	233.95	BA
6.024	6.027	-0.003	1431809	0.29403	440	0.00- 20.00	158.38	BA
6.300	6.299	0.001	2601838	0.39985	600	0.00- 20.00	287.81	BA
Average of Peak Concentrations =					420			
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	745068	0.07440	110	0.00- 20.00	28.64	BA
7.249	7.251	-0.002	393153	0.08225	120	0.00- 20.00	15.11	BA
7.441	7.443	-0.002	332685	0.11412	170	0.00- 20.00	12.79	BA
7.899	7.901	-0.002	300477	0.11387	170	0.00- 20.00	11.55	BA
Average of Peak Concentrations =					140			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3797183	0.03466	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\041718024.D

Date : 17-APR-2018 17:12

Client ID: TD5-170619-01-BB-11

Instrument: 40GCSJ.i

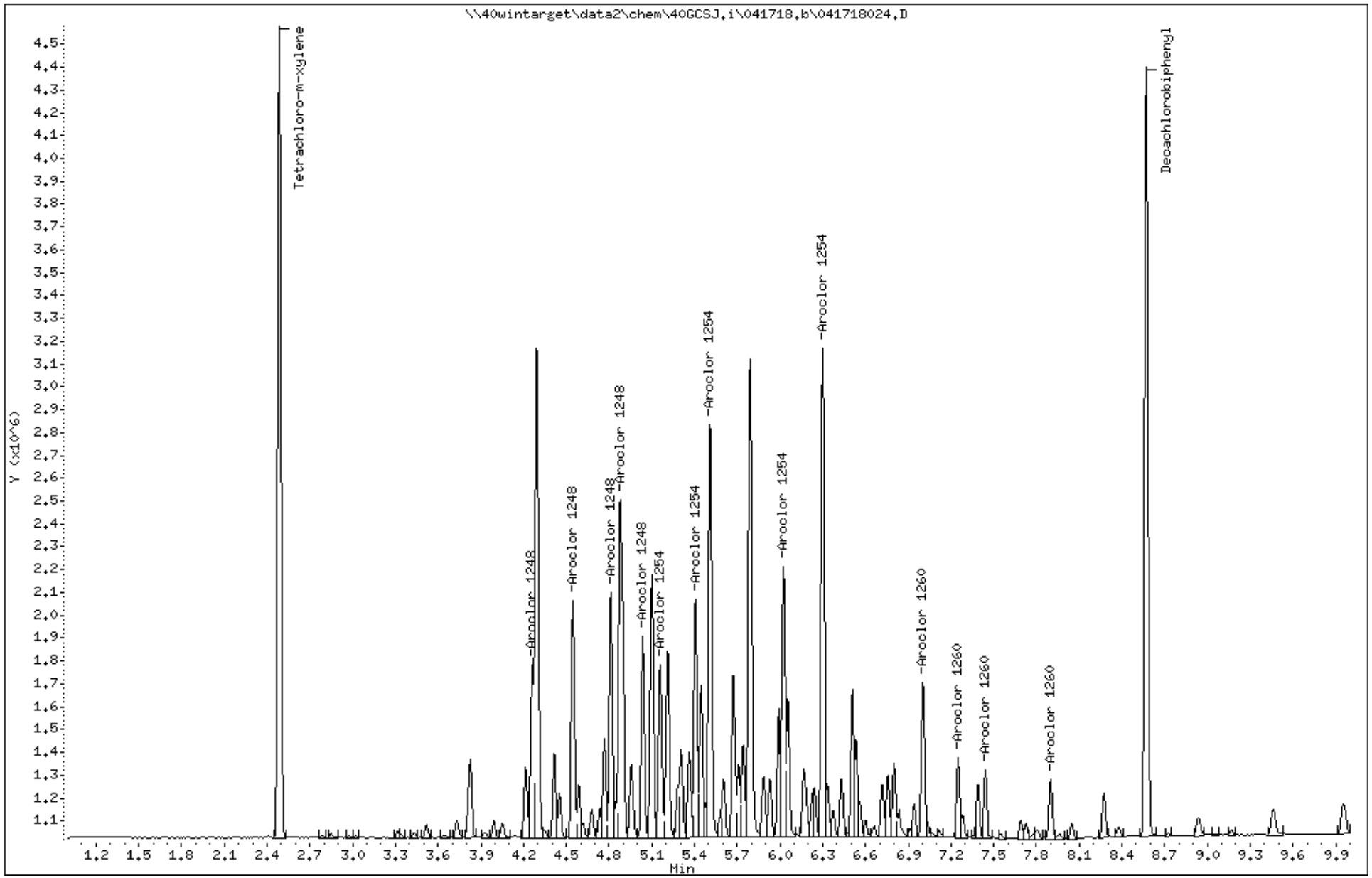
Sample Info: 1673133 x3,

Volume Injected (uL): 1.0

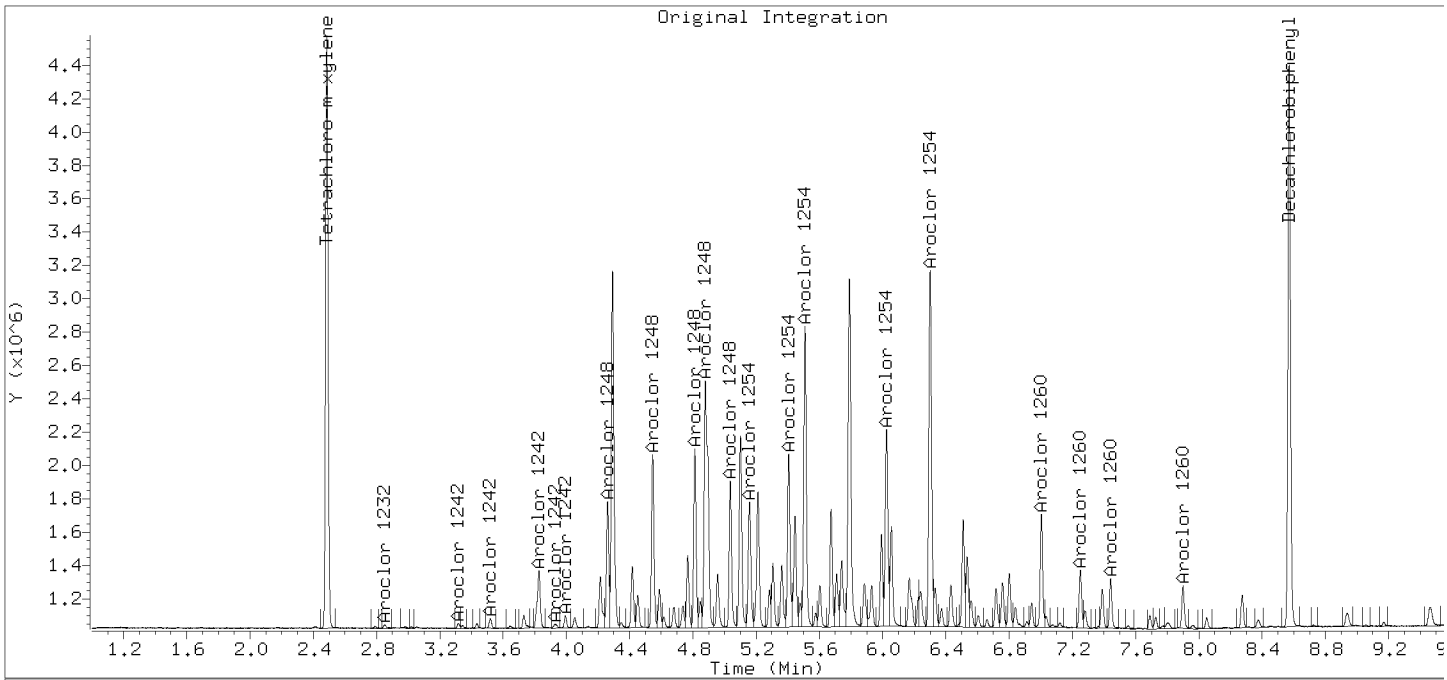
Operator: BLM

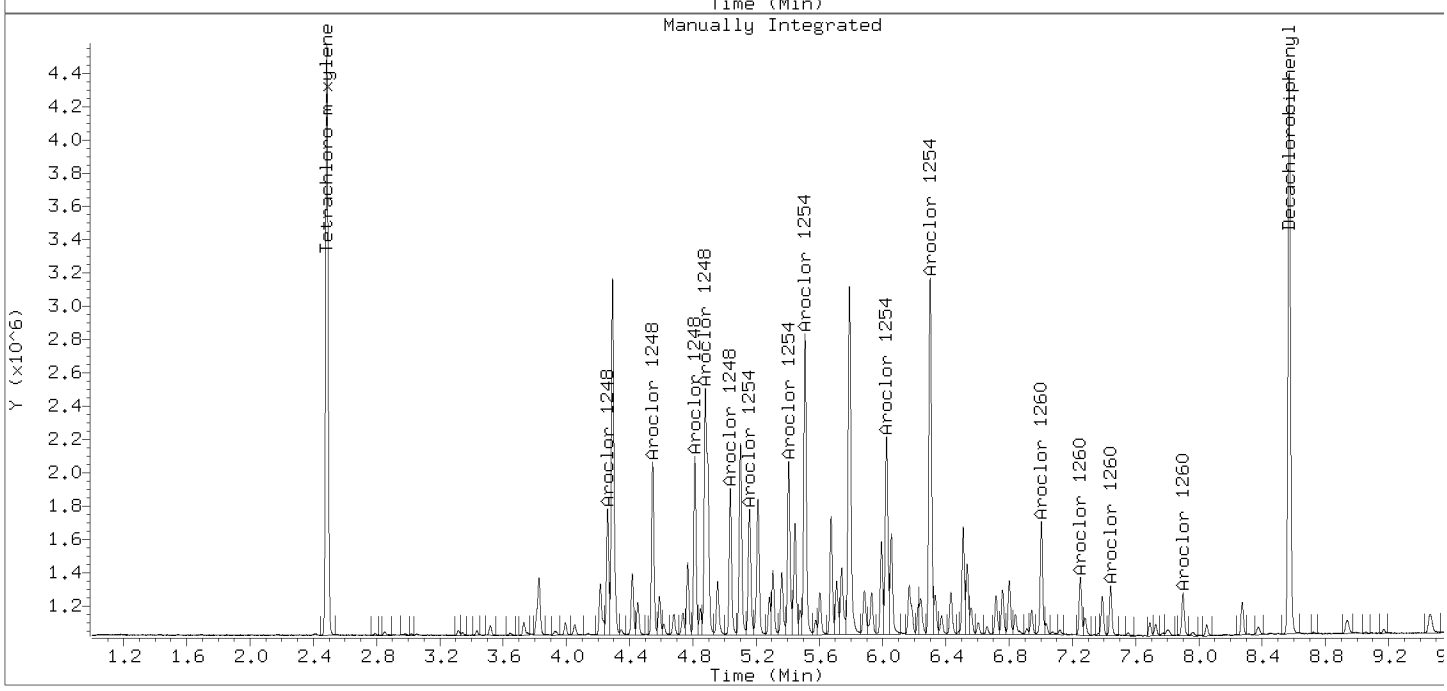
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041718.b/041718024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 17-APR-2018 17:12 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1673133





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	34195	0	
Aroclor 1016	34195	0	
Aroclor 1016	34195	0	
Aroclor 1016	34195	0	
Aroclor 1016	34195	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	32051	0	
Aroclor 1232	32051	0	
Aroclor 1232	32051	0	
Aroclor 1232	32051	0	

Aroclor 1232	32051	0	
Aroclor 1242	34195	0	
Aroclor 1242	34195	0	
Aroclor 1242	34195	0	
Aroclor 1242	34195	0	
Aroclor 1242	34195	0	
Aroclor 1248	782728	790182	BA
Aroclor 1248	782728	790182	BA
Aroclor 1248	782728	790182	BA
Aroclor 1248	782728	790182	BA
Aroclor 1248	782728	790182	BA
Aroclor 1254	894129	904023	BA
Aroclor 1254	894129	904023	BA
Aroclor 1254	894129	904023	BA
Aroclor 1254	894129	904023	BA
Aroclor 1254	894129	904023	BA
Aroclor 1260	2589984	0	BA
Aroclor 1260	2589984	0	BA
Aroclor 1260	2589984	0	BA
Aroclor 1260	2589984	0	BA
Aroclor 1260	2589984	0	BA
Tetrachloro-m-xylene	3909918	3909918	
Decachlorobiphenyl	3797183	3797183	

==========

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.: 40157830

Date Extracted: 04/17/2018 07:09

Lab Sample ID: 1674422

Date Analyzed: 04/18/2018 14:33

Lab File ID: 041818.B\041818009.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\041818.b\041818009.D
Lab Smp Id: 1674422 Client Smp ID: MB
Inj Date : 18-APR-2018 14:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674422,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 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
1.182	18389	17547	0.954	0.09		
1.535	11663	10471	0.898	0.05		
1.688	11572	9256	0.800	0.05		
2.010	16143	10812	0.670	0.08		
2.201	31421	20221	0.644	0.15		
2.485	9542116	9041790	0.948	48.28	$ 2 Tetrachloro-m-xylene	
2.787	17356	15752	0.908	0.08		
2.860	15341	10005	0.652	0.07		
3.026	10807	5907	0.547	0.05		
4.244	16262	10414	0.640	0.08		
6.352	9791	6952	0.710	0.04		
6.942	11097	6655	0.600	0.05		
7.005	9663	6644	0.688	0.04		
7.119	25001	13889	0.556	0.12		
7.690	11470	8818	0.769	0.05		
7.727	48947	40998	0.838	0.24		
7.801	38935	31274	0.803	0.19		
8.274	94644	76654	0.810	0.47		
8.375	21112	14266	0.676	0.10		
8.571	9789361	8548557	0.873	49.66	$ 12 Decachlorobiphenyl	
8.944	12789	9431	0.737	0.06		
	19763883	17916313		100.000		

Total unknown % area = 2.1

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818009.D
Lab Smp Id: 1674422 Client Smp ID: MB
Inj Date : 18-APR-2018 14:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674422,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 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		
2.484	2.484	0.000	9542116	0.07739	39			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

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

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7 Aroclor 1254 CAS #: 11097-69-1

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

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8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9789361	0.08935	45			

Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818009.D

Date : 18-APR-2018 14:33

Client ID: MB

Instrument: 40GCSJ.i

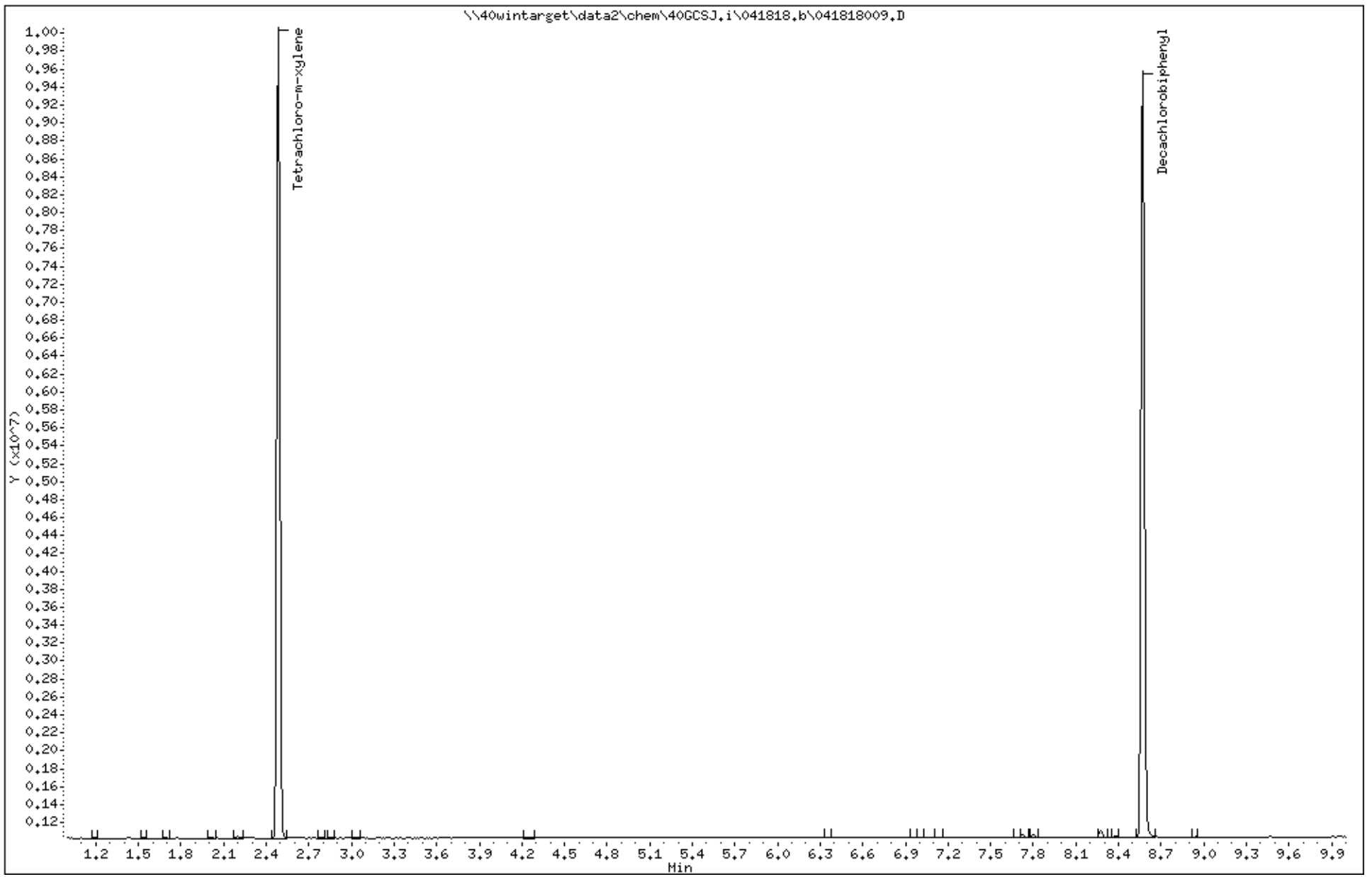
Sample Info: 1674422,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 14:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1674422

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	9542116	9542116	
Decachlorobiphenyl	9789361	9789361	

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.: 40157830

Date Extracted: 04/17/2018 07:09

Lab Sample ID: 1674423

Date Analyzed: 04/18/2018 14:49

Lab File ID: 041818.B\041818010.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)	247	
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\041818.b\041818010.D
Lab Smp Id: 1674423 Client Smp ID: MBLCS
Inj Date : 18-APR-2018 14:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674423,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 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
1.184	10489	9209	0.878	0.02		
1.432	9704	9648	0.994	0.02		
1.687	20423	10153	0.497	0.04		
1.802	12382	11501	0.929	0.02		
2.199	43320	24480	0.565	0.09		
2.404	116066	89568	0.772	0.24		
2.485	10308772	9607446	0.932	21.78	$ 2 Tetrachloro-m-xylene	
2.686	179916	143789	0.799	0.38		
2.789	216483	197700	0.913	0.45		
2.851	962120	876907	0.911	2.03		
3.055	120999	109893	0.908	0.25		
3.279	22356	16615	0.743	0.04		
3.317	1236466	1137166	0.920	2.61	3 Aroclor 1242	BA
3.344	708849	642749	0.907	1.49		
3.434	194002	178978	0.923	0.41		
3.514	1230724	882381	0.717	2.60	3 Aroclor 1242	BA
3.643	20561	13809	0.672	0.04		
3.695	34619	33818	0.977	0.07		
3.732	321948	312595	0.971	0.68		
3.756	209039	198597	0.950	0.44		
3.826	3549735	2029980	0.572	7.50	3 Aroclor 1242	BA
3.929	1524242	1263860	0.829	3.22	3 Aroclor 1242	BA
3.993	1007238	928887	0.922	2.12	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.058	273982	242489	0.885	0.57	
4.135	108857	98979	0.909	0.23	
4.215	825946	772936	0.936	1.74	
4.260	787726	730159	0.927	1.66	
4.292	319211	330354	1.035	0.67	
4.310	396895	357711	0.901	0.83	
4.372	28217	21525	0.763	0.05	
4.417	1102919	1013853	0.919	2.33	
4.451	832445	621979	0.747	1.75	
4.545	1382203	1247109	0.902	2.92	
4.618	347438	292440	0.842	0.73	
4.680	22544	18302	0.812	0.04	
4.728	68384	57184	0.836	0.14	
4.767	75768	69173	0.913	0.16	
4.812	639679	609629	0.953	1.35	
4.847	1126178	1045018	0.928	2.38	
4.878	1453149	1096605	0.755	3.07	
4.958	164298	124610	0.758	0.34	
5.037	1203148	1091208	0.907	2.54	
5.099	250638	187984	0.750	0.52	
5.162	281214	251988	0.896	0.59	
5.212	208471	177427	0.851	0.44	
5.284	17270	15598	0.903	0.03	
5.310	49671	39226	0.790	0.10	
5.362	181144	154832	0.855	0.38	
5.406	304250	251353	0.826	0.64	
5.445	183339	160239	0.874	0.38	
5.510	498170	379504	0.762	1.05	
5.605	153881	129590	0.842	0.32	
5.676	17907	13901	0.776	0.03	
5.718	29340	22202	0.757	0.06	
5.742	36067	32045	0.888	0.07	
5.792	319560	257867	0.807	0.67	
5.888	37582	29712	0.791	0.07	
5.996	12345	12287	0.995	0.02	
6.024	266980	229703	0.860	0.56	
6.053	57834	46478	0.804	0.12	
6.167	29351	18382	0.626	0.06	
6.228	23782	12447	0.523	0.05	
6.299	76286	61335	0.804	0.16	8 Aroclor 1260
6.330	19385	14161	0.731	0.04	
6.373	12283	12156	0.990	0.02	
6.505	10327	9619	0.931	0.02	
6.538	15298	15382	1.005	0.03	
6.720	11374	11157	0.981	0.02	
6.802	17807	13405	0.753	0.03	
7.005	22404	17273	0.771	0.04	8 Aroclor 1260
7.117	27236	14512	0.533	0.05	
7.249	15100	11378	0.753	0.03	8 Aroclor 1260
7.443	10922	10336	0.946	0.02	8 Aroclor 1260
7.688	13577	12459	0.918	0.02	
7.728	55970	42319	0.756	0.11	
7.800	41559	33124	0.797	0.08	
7.901	11221	9140	0.815	0.02	8 Aroclor 1260
8.274	95939	83332	0.869	0.20	
8.379	20514	15555	0.758	0.04	
8.571	10644564	9090286	0.854	22.85	$ 12 Decachlorobiphenyl

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.465	10561	8045	0.762	0.02	
	47310566	40478731		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818010.D
Lab Smp Id: 1674423 Client Smp ID: MBLCS
Inj Date : 18-APR-2018 14:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674423,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 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			
2.484	2.484	0.000	10308772	0.08361	42			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1236465	0.48810	240	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1230723	0.48838	240	0.00- 20.00	99.54	BA
3.825	3.827	-0.002	3549734	0.49881	250	0.00- 20.00	287.09	BA
3.928	3.929	-0.001	1524242	0.50114	250	0.00- 20.00	123.27	BA
3.993	3.995	-0.002	1007238	0.49188	240	0.00- 20.00	81.46	BA
Average of Peak Concentrations =					250			

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

Qualifier signal(s) failed ratio test.

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	10644563	0.09716		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\041818.b\041818010.D

Date : 18-APR-2018 14:49

Client ID: MBLCS

Instrument: 40GCSJ.i

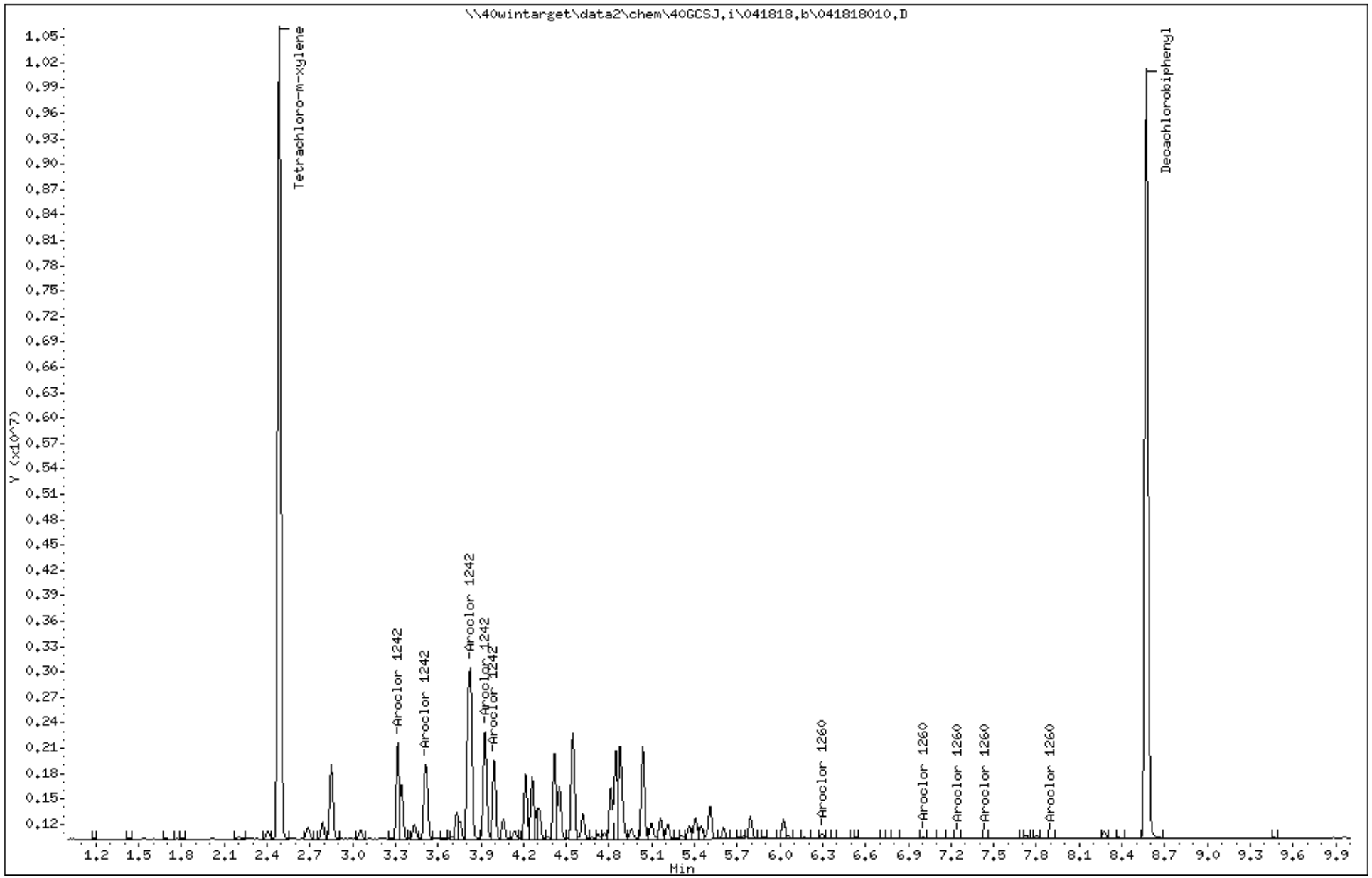
Sample Info: 1674423,

Volume Injected (uL): 1.0

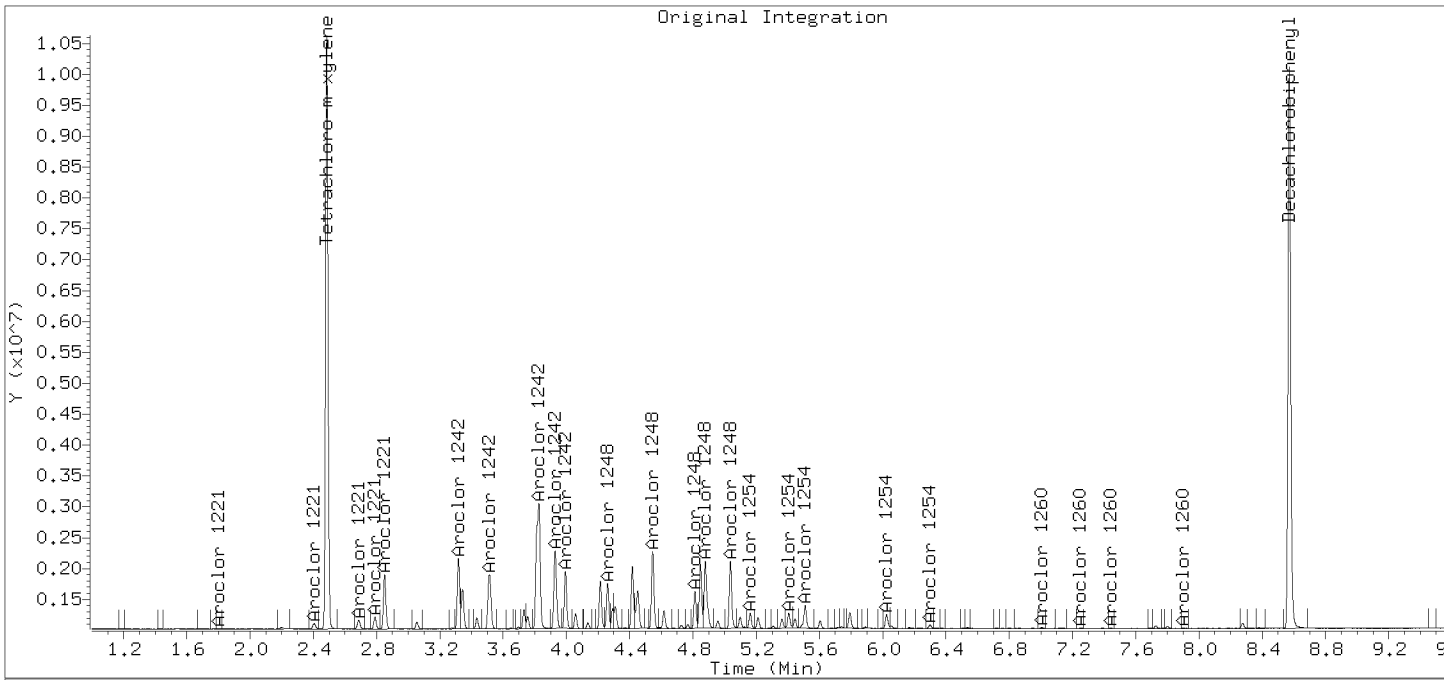
Operator: BLM

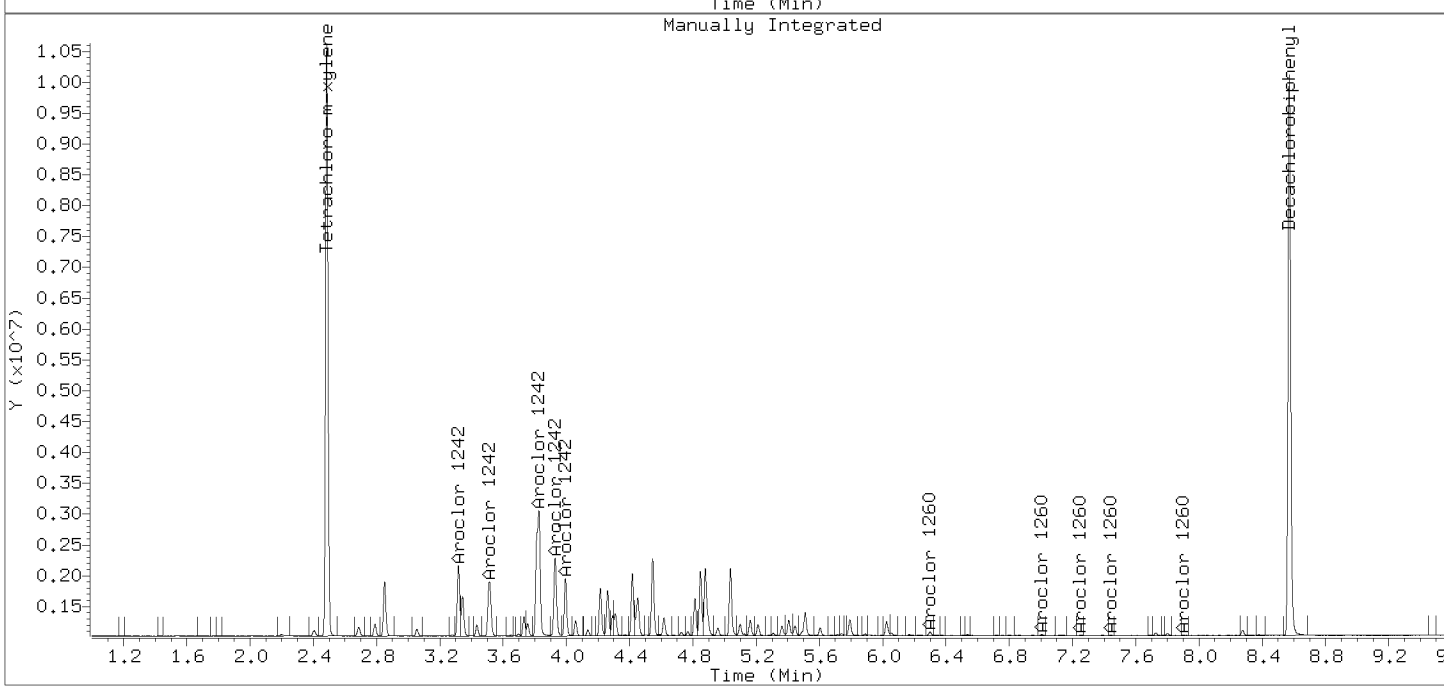
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 14:49 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1674423





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1228137	0	
Aroclor 1016	1228137	0	
Aroclor 1016	1228137	0	
Aroclor 1016	1228137	0	
Aroclor 1016	1228137	0	
Aroclor 1221	12382	0	
Aroclor 1221	12382	0	
Aroclor 1221	12382	0	
Aroclor 1221	12382	0	
Aroclor 1221	12382	0	
Aroclor 1232	962120	0	
Aroclor 1232	962120	0	
Aroclor 1232	962120	0	
Aroclor 1232	962120	0	

Aroclor 1232	962120	0	
Aroclor 1242	1228137	1236465	BA
Aroclor 1242	1228137	1236465	BA
Aroclor 1242	1228137	1236465	BA
Aroclor 1242	1228137	1236465	BA
Aroclor 1242	1228137	1236465	BA
Aroclor 1248	778229	0	
Aroclor 1248	778229	0	
Aroclor 1248	778229	0	
Aroclor 1248	778229	0	
Aroclor 1248	778229	0	
Aroclor 1254	255568	0	
Aroclor 1254	255568	0	
Aroclor 1254	255568	0	
Aroclor 1254	255568	0	
Aroclor 1254	255568	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10308772	10308772	
Decachlorobiphenyl	10644563	10644563	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/03/2017 14:25

Matrix: Tissue SDG No.: 40157830

Date Extracted: 04/17/2018 07:09

Lab Sample ID: 1674424

Date Analyzed: 04/18/2018 15:36

Lab File ID: 041818.B\041818013.D

Initial wt/vol: 9.9935 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)	797	
11097-69-1	PCB-1254 (Aroclor 1254)	607	
11096-82-5	PCB-1260 (Aroclor 1260)	120	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818013.D
Lab Smp Id: 1674424 Client Smp ID: TD1-170619-01-SMB-0
Inj Date : 18-APR-2018 15:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674424 x3,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13 QC Sample: FIELDDUP
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * 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	9.993	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.424	14140	7010	0.496	0.02		
1.532	11183	6853	0.613	0.01		
2.411	16739	11438	0.683	0.02		
2.484	3707053	3468449	0.936	6.89	$ 2 Tetrachloro-m-xylene	
2.851	17718	11580	0.654	0.03		
2.972	9692	7807	0.806	0.01		
3.054	23711	21691	0.915	0.04		
3.318	46705	44081	0.944	0.08		
3.344	55431	45066	0.813	0.09		
3.433	36131	32560	0.901	0.06		
3.518	104552	88140	0.843	0.18		
3.732	56770	58013	1.022	0.09		
3.752	44479	34794	0.782	0.07		
3.827	725112	507157	0.699	1.26		
3.935	141572	96396	0.681	0.24		
3.994	176781	163966	0.928	0.30		
4.058	113097	102881	0.910	0.19		
4.136	25351	20356	0.803	0.04		
4.214	1448705	1348357	0.931	2.52		
4.261	1432565	1346130	0.940	2.49	6 Aroclor 1248	BA
4.292	1253109	993960	0.793	2.18		
4.417	1088544	1038103	0.954	1.89		
4.452	752559	669027	0.889	1.31		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.545	1336776	1235424	0.924	2.33	6 Aroclor 1248
4.588	45324	42326	0.934	0.07	
4.617	194259	169040	0.870	0.33	
4.680	63752	55030	0.863	0.11	
4.728	121406	89922	0.741	0.21	
4.767	214022	194273	0.908	0.37	
4.813	1256035	1191955	0.949	2.19	6 Aroclor 1248
4.848	1165561	1118589	0.960	2.03	
4.878	3372134	2145971	0.636	5.88	6 Aroclor 1248
4.957	440625	356531	0.809	0.76	
5.037	1557227	1405487	0.903	2.71	6 Aroclor 1248
5.100	899872	753590	0.837	1.56	
5.162	2179642	1941184	0.891	3.80	7 Aroclor 1254
5.212	1660239	1472773	0.887	2.89	
5.283	127229	114072	0.897	0.22	
5.309	231425	191770	0.829	0.40	
5.362	922703	823448	0.892	1.60	
5.406	1648171	1393549	0.846	2.87	7 Aroclor 1254
5.446	1091945	962220	0.881	1.90	
5.478	133716	127389	0.953	0.23	
5.509	2709553	2377425	0.877	4.72	7 Aroclor 1254
5.575	53689	49808	0.928	0.09	
5.604	459284	394443	0.859	0.80	
5.675	381980	337950	0.885	0.66	
5.713	361574	261280	0.723	0.63	
5.740	428577	344990	0.805	0.74	
5.790	3641439	2760645	0.758	6.35	
5.887	317641	234073	0.737	0.55	
5.929	144058	101266	0.703	0.25	
5.994	424955	400788	0.943	0.74	
6.024	1935032	1621099	0.838	3.37	7 Aroclor 1254
6.055	2151759	1798464	0.836	3.75	
6.169	612112	481706	0.787	1.06	
6.226	468925	258943	0.552	0.81	
6.299	3089726	2492204	0.807	5.38	7 Aroclor 1254
6.332	436273	387547	0.888	0.76	
6.372	220590	180666	0.819	0.38	
6.433	154816	112806	0.729	0.27	
6.510	650868	606475	0.932	1.13	
6.535	678986	600845	0.885	1.18	
6.558	244248	221781	0.908	0.42	
6.604	131207	112134	0.855	0.22	
6.660	64117	57629	0.899	0.11	
6.717	304438	264497	0.869	0.53	
6.758	253406	222639	0.879	0.44	
6.801	486639	421604	0.866	0.84	
6.842	160220	109346	0.682	0.27	
6.914	22271	19771	0.888	0.03	
6.942	156878	139278	0.888	0.27	
7.004	811787	724439	0.892	1.41	8 Aroclor 1260
7.034	59687	68302	1.144	0.10	
7.074	19243	16785	0.872	0.03	
7.118	24884	21767	0.875	0.04	
7.251	421034	377718	0.897	0.73	8 Aroclor 1260
7.281	140142	115299	0.823	0.24	
7.389	242847	202848	0.835	0.42	
7.443	248042	213824	0.862	0.43	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.552	15842	16549	1.045	0.02	
7.691	78895	70628	0.895	0.13	
7.728	54562	49619	0.909	0.09	
7.808	52280	29153	0.558	0.09	
7.899	172111	145363	0.845	0.30	8 Aroclor 1260
7.963	23274	15665	0.673	0.04	
8.051	41505	35588	0.857	0.07	
8.274	136426	121806	0.893	0.23	
8.571	3634941	3243166	0.892	6.33	$ 12 Decachlorobiphenyl
8.728	14304	11354	0.794	0.02	
9.168	35205	24377	0.692	0.06	
	57336033	48784710		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818013.D
Lab Smp Id: 1674424 Client Smp ID: TD1-170619-01-SMB-0
Inj Date : 18-APR-2018 15:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1674424 x3,
Misc Info : 17695,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041818.b\pcba030618.m
Meth Date : 20-Apr-2018 06:58 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13 QC Sample: FIELDDUP
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * 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	9.993	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

2.484	2.484	0.000	3707052	0.03007	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	1432564	0.61143	920	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1336776	0.32209	480	0.00- 20.00	93.31	BA
4.812	4.812	0.000	1256035	0.61871	930	0.00- 20.00	87.68	BA
4.878	4.879	-0.001	3372134	0.66941	1000	0.00- 20.00	235.39	BA
5.037	5.038	-0.001	1557227	0.43394	650	0.00- 20.00	108.70	BA
Average of Peak Concentrations =					800			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2179642	0.41634	620	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1648171	0.38320	580	0.00- 20.00	75.62	BA
5.509	5.510	-0.001	2709552	0.34890	520	0.00- 20.00	124.31	BA
6.024	6.027	-0.003	1935032	0.39736	600	0.00- 20.00	88.78	BA
6.299	6.299	0.000	3089726	0.47482	710	0.00- 20.00	141.75	BA
Average of Peak Concentrations =					610			
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	811787	0.08106	120	0.00- 20.00	28.17	CO
7.250	7.251	-0.001	421034	0.08809	130	0.00- 20.00	13.63	CO
7.443	7.443	0.000	248042	0.08509	130	0.00- 20.00	8.03	CO
7.899	7.901	-0.002	172110	0.06522	98	0.00- 20.00	5.57	CO
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3634941	0.03318	50			

QC Flag Legend

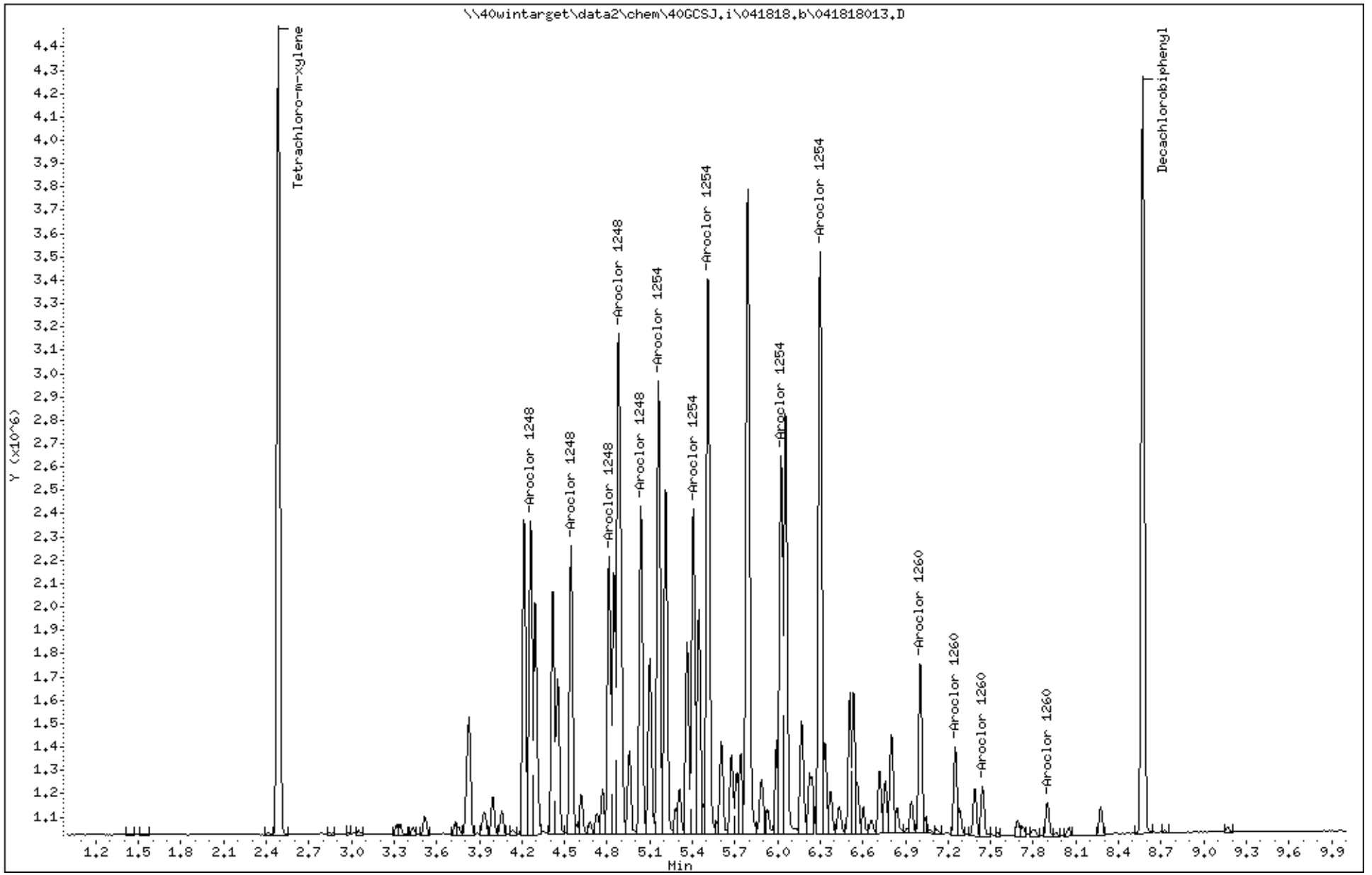
M - Compound response manually integrated.

Review Codes Legend

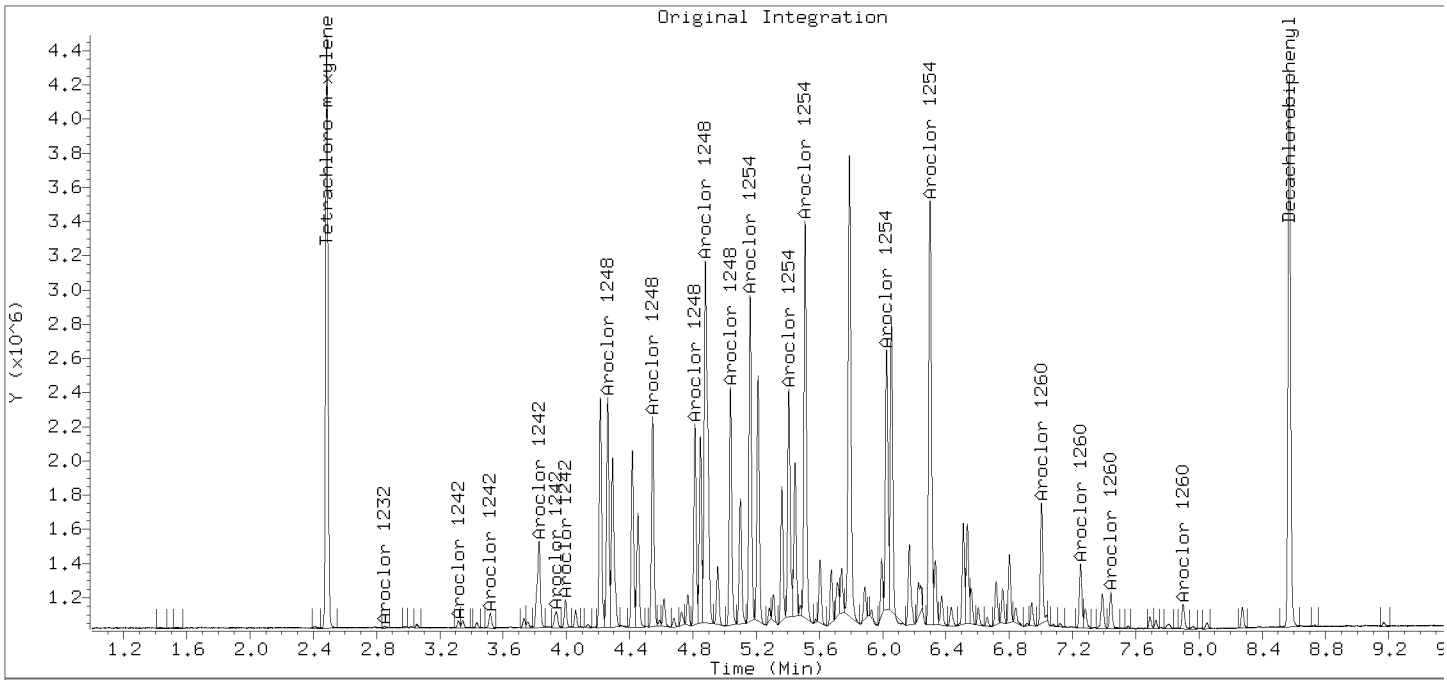
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

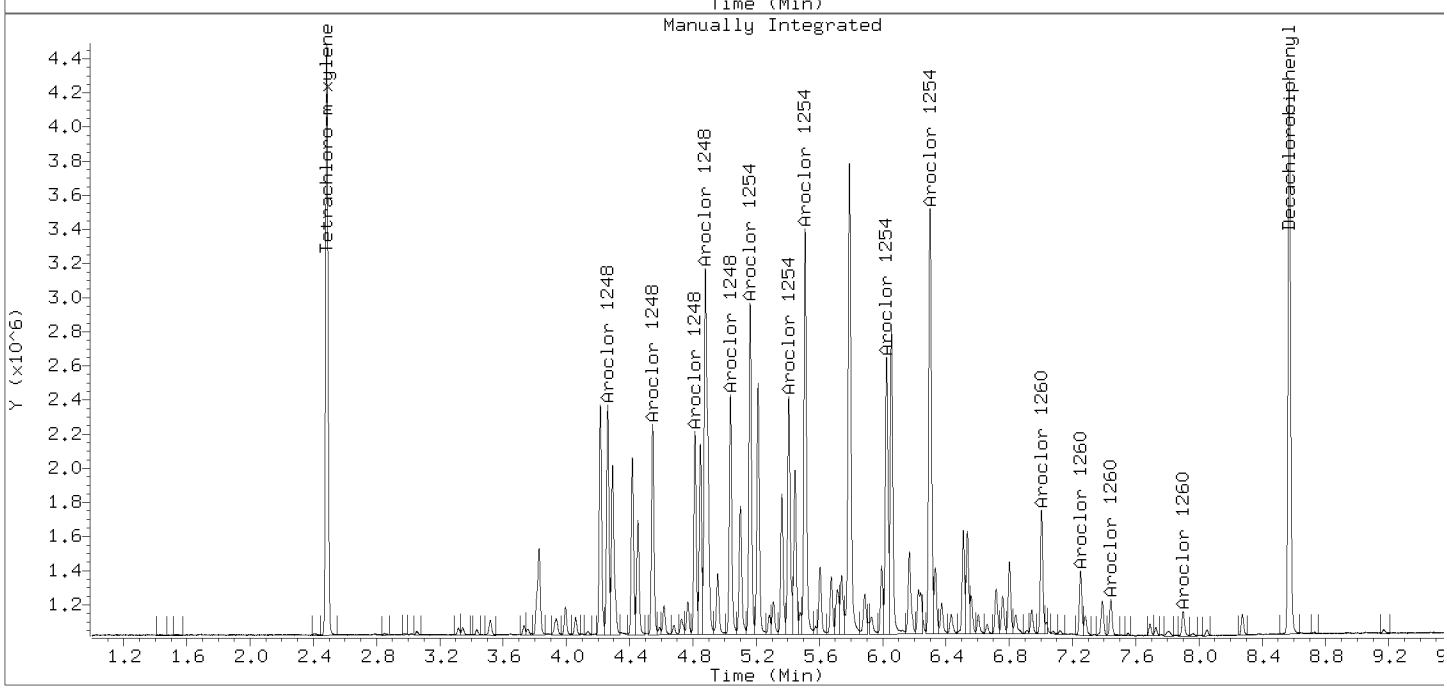
Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b\041818013.D
Date : 18-APR-2018 15:36
Client ID: TD1-170619-01-SMB-0
Sample Info: 1674424 x3,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041818.b/041818013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 18-APR-2018 15:36 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1674424





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	46704	0	
Aroclor 1016	46704	0	
Aroclor 1016	46704	0	
Aroclor 1016	46704	0	
Aroclor 1016	46704	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	17718	0	
Aroclor 1232	17718	0	
Aroclor 1232	17718	0	
Aroclor 1232	17718	0	

Aroclor 1232	17718	0	
Aroclor 1242	46704	0	
Aroclor 1242	46704	0	
Aroclor 1242	46704	0	
Aroclor 1242	46704	0	
Aroclor 1242	46704	0	
Aroclor 1248	1423815	1432564	BA
Aroclor 1248	1423815	1432564	BA
Aroclor 1248	1423815	1432564	BA
Aroclor 1248	1423815	1432564	BA
Aroclor 1248	1423815	1432564	BA
Aroclor 1254	2069406	2179642	BA
Aroclor 1254	2069406	2179642	BA
Aroclor 1254	2069406	2179642	BA
Aroclor 1254	2069406	2179642	BA
Aroclor 1254	2069406	2179642	BA
Aroclor 1260	3051578	0	CO
Aroclor 1260	3051578	0	CO
Aroclor 1260	3051578	0	CO
Aroclor 1260	3051578	0	CO
Aroclor 1260	3051578	0	CO
Tetrachloro-m-xylene	3707052	3707052	
Decachlorobiphenyl	3634941	3634941	

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Prep Log Report

Batch Information: OEXT 285341 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	04/06/2018 07:14:24:461
Spiked By	AMC	Spiked By Date/Time	04/06/2018 07:14:25:300	Witnessed By	ETB	Witnessed By Date/Time	04/06/2018 07:14:26:076
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	193046	Hexane	192551	Sodium Sulfate	192624	Florisil	186910
3620B Date/Initials	4/9/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	4/9/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/13/2018 11:26	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	**1669842**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1669843**	10	5	3		189973 (.25)	192096 (.125)
8082A TNYP	PS	**40157703002**	10.0121	5	3		189973 (.25)	
8082A TNYP	PS	**40157703003**	9.997	5	3		189973 (.25)	
8082A TNYP	PS	**40157703004**	9.976	5	3		189973 (.25)	
8082A TNYP	PS	**40157703006**	9.9809	5	3		189973 (.25)	
8082A TNYP	PS	**40157703007**	9.9813	5	3		189973 (.25)	
8082A TNYP	PS	**40157703008**	9.9893	5	3		189973 (.25)	
8082A TNYP	PS	**40157703009**	10.025	5	3		189973 (.25)	
8082A TNYP	PS	**40157703010**	10.0253	5	3		189973 (.25)	
8082A TNYP	PS	**40157703011**	9.9851	5	3		189973 (.25)	
8082A TNYP	PS	**40157703012**	9.9921	5	3		189973 (.25)	
8082A TNYP	PS	**40157703013**	10.0028	5	3		189973 (.25)	
8082A TNYP	PS	**40157703014**	10.0241	5	3		189973 (.25)	
8082A TNYP	PS	**40157703015**	9.9707	5	3		189973 (.25)	
8082A TNYP	PS	**40157703016**	10.0176	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40157703017**	9.9676	5	3		189973 (.25)	
8082A TNYP	RQS	**40157703018**	9.9767	5	3		189973 (.25)	
8082A TNYP	MS	**1669844**	10.0207	5	3		189973 (.25)	192096 (.125)
8082A TNYP	DUP	**1669845**	10.011	5	3		189973 (.25)	
8082A TNYP	PS	**40157703019**	9.9989	5	3		189973 (.25)	
8082A TNYP	PS	**40157830001**	9.9827	5	3		189973 (.25)	
8082A TNYP	PS	**40157830002**	9.9911	5	3		189973 (.25)	
8082A TNYP	PS	**40157830004**	10.008	5	3		189973 (.25)	

Standard Notes:

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

Prep Log Report

Batch Information: OEXT 285569 PCB-B

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

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	04/10/2018 07:13:06:659
Spiked By	AMC	Spiked By Date/Time	04/10/2018 07:13:07	Witnessed By	ETB	Witnessed By Date/Time	04/10/2018 07:13:08:267
Instrument	40BAL2	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	193382	Hexane	192551	Sodium Sulfate	192814	Florisil	186910
3620B Date/Initials	4/11/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	4/11/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/18/2018 10:21	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	BLANK	**1671063**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1671064**	10	5	3		189973 (.25)	192096 (.125)
8082A TNYP	PS	**40157488006**	9.9671	5	3		189973 (.25)	
8082A TNYP	MS	**1671101**	9.9687	5	3		189973 (.25)	192096 (.125)
8082A TNYP	DUP	**1671100**	9.9798	5	3		189973 (.25)	
8082A TNYP	PS	**40157489006**	10.0293	5	3		189973 (.25)	
8082A TNYP	PS	**40157698006**	9.9828	5	3		189973 (.25)	
8082A TNYP	PS	**40157698007**	9.9881	5	3		189973 (.25)	
8082A TNYP	PS	**40157698012**	9.9744	5	3		189973 (.25)	
8082A TNYP	PS	**40157698013**	10.0395	5	3		189973 (.25)	
8082A TNYP	PS	**40157698014**	10.0012	5	3		189973 (.25)	
8082A TNYP	PS	**40157698015**	10.0047	5	3		189973 (.25)	
8082A TNYP	PS	**40157698016**	10.0234	5	3		189973 (.25)	
8082A TNYP	PS	**40157830005**	10.0055	5	3		189973 (.25)	
8082A TNYP	PS	**40157830006**	10.0158	5	3		189973 (.25)	
8082A TNYP	PS	**40157830007**	10.0318	5	3		189973 (.25)	

Prep Log Report

40157830

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

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

40157830

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.**

Prep Log Report

Batch Information: OEXT 286202 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	04/17/2018 07:09:54:652
Spiked By	AMC	Spiked By Date/Time	04/17/2018 07:09:55	Witnessed By	ETB	Witnessed By Date/Time	04/17/2018 07:09:56:484
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	194128	Hexane	192551	Sodium Sulfate	193359	Florisil	186910
3620B Date/Initials	4/18/18 AMC	H2SO4 - Conc.	193892	Acid 3665A Date/Initials	4/18/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/20/2018 06:58	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	**1674422**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1674423**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40157489007**	9.9754	5	3		193230 (.25)	
8082A TNYP	PS	**40157830016**	9.9901	5	3		193230 (.25)	
8082A TNYP	DUP	**1674424**	9.9935	5	3		193230 (.25)	
8082A TNYP	PS	**40157830017**	10.0089	5	3		193230 (.25)	
8082A TNYP	PS	**40157830018**	10.0076	5	3		193230 (.25)	
8082A TNYP	PS	**40157932001**	9.9866	5	3		193230 (.25)	
8082A TNYP	PS	**40157932002**	9.9983	5	3		193230 (.25)	
8082A TNYP	RQS	**40157932003**	10.0109	5	3		193230 (.25)	
8082A TNYP	MS	**1674425**	9.9796	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1674426**	10.0336	5	3		193230 (.25)	
8082A TNYP	PS	**40157932004**	10.0083	5	3		193230 (.25)	
8082A TNYP	PS	**40157932005**	10.0271	5	3		193230 (.25)	
8082A TNYP	PS	**40157932006**	10.0034	5	3		193230 (.25)	
8082A TNYP	PS	**40157932007**	9.9623	5	3		193230 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40157932008**	9.9929	5	3		193230 (.25)	
8082A TNYP	PS	**40157932009**	9.9828	5	3		193230 (.25)	
8082A TNYP	PS	**40157932010**	9.9635	5	3		193230 (.25)	
8082A TNYP	PS	**40157932011**	10.0169	5	3		193230 (.25)	

Standard Notes:

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

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            Comment:
           Operator:
          Data Path: C:\MSDCHEM\1\DATA\040918\
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  1670608
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1670609
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  1670610
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  1670611
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40167106-001
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40167112-001
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40167107-001
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  HEXANE
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  1670832
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  1670833
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  1670834
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  1670835
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40166483-002
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40166483-004P
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  40166483-010
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40166483-019
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40166483-021
     Datafile           --------

   Last Modified: Mon Apr 09 20:22:51 2018                Page:  1
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BLM 4/11/18

Continued on Page 44

Read and Understood By

Signed 4/11/18 Date

Signed 4-11-18 Date

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     Method                SCREEN2014
20) Sample          20     40166779-002
     Datafile              --------
     Method                SCREEN2014
21) RearSamp        21     40166779-010
     Datafile              --------
     Method                SCREEN2014
22) Sample          22     40166779-016
     Datafile              --------
     Method                SCREEN2014
23) RearSamp        23     40166485-003
     Datafile              --------
     Method                SCREEN2014
24) Sample          24     40166548-011
     Datafile              --------
     Method                SCREEN2014
25) RearSamp        25     40166630-025
     Datafile              --------
     Method                SCREEN2014
26) Sample          26     40166659-002
     Datafile              --------
     Method                SCREEN2014
27) RearSamp        27     40166659-004
     Datafile              --------
     Method                SCREEN2014
28) Sample          28     40167165-003
     Datafile              --------
     Method                SCREEN2014
29) RearSamp        29     40167165-004
     Datafile              --------
     Method                SCREEN2014
30) Sample          30     HEXANE
     Datafile              --------
     Method                SCREEN2014
31) RearSamp        31     1669842MB
     Datafile              --------
     Method                SCREEN2014
32) Sample          32     1669843LCS
     Datafile              --------
     Method                SCREEN2014
33) RearSamp        33     40157703-002 —
     Datafile              --------
     Method                SCREEN2014
34) Sample          34     40157703-003 x10
     Datafile              --------
     Method                SCREEN2014
35) RearSamp        35     40157703-004 x3
     Datafile              --------
     Method                SCREEN2014
36) Sample          36     40157703-006 —
     Datafile              --------
     Method                SCREEN2014
37) RearSamp        37     40157703-007 —
     Datafile              --------
     Method                SCREEN2014
38) Sample          38     40157703-008 x2
     Datafile              --------
     Method                SCREEN2014
39) RearSamp        39     40157703-009 x5
     Datafile              --------
     Method                SCREEN2014
40) Sample          40     40157703-010 x5
     Datafile              --------
     Method                SCREEN2014
41) RearSamp        41     40157703-011 x2
     Datafile              --------
     Method                SCREEN2014
42) Sample          42     40157703-012 x3
     Datafile              --------
     Method                SCREEN2014
43) RearSamp        43     40157703-013 x3
     Datafile              --------
```

GE BIOTA

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Read and Understood By

Bryan Meagher — Signed — 4/11/18 — Date

Tom O'Connor — Signed — 4-11-18 — Date

Sequence Name: C:\msdchem\1\sequence\040918.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40157703-014	x2	
	Datafile		--------		
	Method		SCREEN2014		
45)	RearSamp	45	40157703-015	x15	
	Datafile		--------		
	Method		SCREEN2014		
46)	Sample	46	40157703-016	x5	
	Datafile		--------		
	Method		SCREEN2014		
47)	RearSamp	47	40157703-017	—	
	Datafile		--------		
	Method		SCREEN2014		
48)	Sample	48	40157703-018P	~~x5~~ x10 BLM 4/10/18	
	Datafile		--------		
	Method		SCREEN2014		
49)	RearSamp	49	1669844MS	x10	
	Datafile		--------		
	Method		SCREEN2014		
50)	Sample	50	1669845DUP	x10	
	Datafile		--------		
	Method		SCREEN2014		
51)	RearSamp	51	40157703-019	x5	
	Datafile		--------		
	Method		SCREEN2014		
52)	Sample	52	40157830-001	x2	
	Datafile		--------		
	Method		SCREEN2014		
53)	RearSamp	53	40157830-002	—	
	Datafile		--------		
	Method		SCREEN2014		
54)	Sample	54	40157830-004	x4	
	Datafile		--------		
	Method		SCREEN2014		

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BLM 4/11/18

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Read and Understood By

Signed 4/11/18 Date Signed 4-11-18 Date

PROJECT 40GCSI 041118 Screener

Notebook No. 4418

Continued from Page —

```
Sequence Name: C:\msdchem\1\sequence\041118.s
      Comment:
     Operator:
    Data Path: C:\MSDCHEM\1\DATA\041118\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
-----------------------------------------------------------------------
  Line                    Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile           --------
     Method             SCREEN2014
 2) Sample          2  HEXANE
     Datafile           --------
     Method             SCREEN2014
 3) RearSamp        3  1671063MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1671064LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  40157488-006 x5
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  1671101MS x5
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  1671100DUP x5
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40157489-006 x5
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40157698-006 x10
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40157698-007 x3
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40167698-012 —
     Datafile           ---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           --------

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```

GE BIOTA

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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
```

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BLM 4/12/18

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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~~ — BLM 4/13/18
	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		--------

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Read and Understood By

Bryan Mayl — Signed — 4/18/18 — Date

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

```
     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
```

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BLM 4/18/18

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Read and Understood By

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

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

PROJECT 40GCSI Screener 04/17/18

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```
   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         --------

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```

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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
```

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B.M. 4/18/18

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Read and Understood By

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

PROJECT 40GCSI Screener 04/18/18

Notebook No. 4418

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```
Sequence Name: C:\msdchem\1\sequence\041818.s
      Comment:
     Operator:
    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) RearSamp	1	HEXANE
Datafile		--------
Method		SCREEN2014
2) Sample	2	HEXANE
Datafile		--------
Method		SCREEN2014
3) RearSamp	3	40167413-006
Datafile		--------
Method		SCREEN2014
4) Sample	4	40167456-001
Datafile		--------
Method		SCREEN2014
5) RearSamp	5	40167524-009
Datafile		--------
Method		SCREEN2014
6) Sample	6	40167524-010
Datafile		--------
Method		SCREEN2014
7) RearSamp	7	40167498-030
Datafile		--------
Method		SCREEN2014
8) Sample	8	40167498-031
Datafile		--------
Method		SCREEN2014
9) RearSamp	9	40167498-032
Datafile		--------
Method		SCREEN2014
10) Sample	10	40167522-007
Datafile		--------
Method		SCREEN2014
11) RearSamp	11	40167522-008
Datafile		--------
Method		SCREEN2014
12) Sample	12	HEXANE
Datafile		--------
Method		SCREEN2014
13) RearSamp	13	1674422MB
Datafile		--------
Method		SCREEN2014
14) Sample	14	1674423LCS
Datafile		--------
Method		SCREEN2014
15) RearSamp	15	40157489-007 x5
Datafile		--------
Method		SCREEN2014
16) Sample	16	40157830-016 x3
Datafile		--------
Method		SCREEN2014
17) RearSamp	17	1674424DUP x3
Datafile		--------
Method		SCREEN2014
18) Sample	18	40157830-017 x4
Datafile		--------
Method		SCREEN2014
19) RearSamp	19	40157830-018 x5
Datafile		--------

GE BIOTA

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Read and Understood By

Signed: [signature] Date: 4/19/18

Signed: Jim O'Conn Date: 4-19-18

```
      Method                SCREEN2014
20) Sample          20  40157932-001
      Datafile              --------
      Method                SCREEN2014
21) RearSamp        21  40157932-002
      Datafile              --------
      Method                SCREEN2014
22) Sample          22  40157932-003
      Datafile              --------
      Method                SCREEN2014
23) RearSamp        23  1674425MS
      Datafile              --------
      Method                SCREEN2014
24) Sample          24  1674426DUP
      Datafile              --------
      Method                SCREEN2014
25) RearSamp        25  40157932-004
      Datafile              --------
      Method                SCREEN2014
26) Sample          26  40157932-005
      Datafile              --------
      Method                SCREEN2014
27) RearSamp        27  40157932-006
      Datafile              --------
      Method                SCREEN2014
28) Sample          28  40157932-007
      Datafile              --------
      Method                SCREEN2014
29) RearSamp        29  40157932-008
      Datafile              --------
      Method                SCREEN2014
30) Sample          30  40157932-009
      Datafile              --------
      Method                SCREEN2014
31) RearSamp        31  40157932-010
      Datafile              --------
      Method                SCREEN2014
32) Sample          32  40157932-011
      Datafile              --------
      Method                SCREEN2014
```

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Read and Understood By

Signed: [signature] Date: 4/19/18

Signed: Jim O'Conn Date: 4-19-18

```
   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

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```

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Read and Understood By

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

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```

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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		

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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

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

```
    Sequence Name: C:\msdchem\1\sequence\041018.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\041018\
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          041018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041018003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 F
     Datafile          041018004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 OK
     Datafile          041018005
     Method            GEBIOTA2017
 6) Sample          6  40157935001 x2,,17636,BIOTA
     Datafile          041018006
     Method            GEBIOTA2017
 7) Sample          7  40157935006 x2,,17636,BIOTA
     Datafile          041018007
     Method            GEBIOTA2017
 8) Sample          8  1669842,,17642,BIOTA
     Datafile          041018008
     Method            GEBIOTA2017
 9) Sample          9  1669843,,17642,BIOTA
     Datafile          041018009
     Method            GEBIOTA2017
10) Sample         10  40157703002,,17642,BIOTA
     Datafile          041018010
     Method            GEBIOTA2017
11) Sample         11  40157703003 x10,,17642,BIOTA
     Datafile          041018011
     Method            GEBIOTA2017
12) Sample         12  40157703004 x3,,17642,BIOTA
     Datafile          041018012
     Method            GEBIOTA2017
13) Sample         13  40157703006,,17642,BIOTA
     Datafile          041018013
     Method            GEBIOTA2017
14) Sample         14  40157703007,,17642,BIOTA
     Datafile          041018014
     Method            GEBIOTA2017
15) Sample         15  40157703008 x2,,17642,BIOTA
     Datafile          041018015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041018016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041018017
     Method            GEBIOTA2017
18) Sample         18  40157703009 x5,,17642,BIOTA
     Datafile          041018018
     Method            GEBIOTA2017
19) Sample         19  40157703010 x5,,17642,BIOTA
     Datafile          041018019

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```

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```
      Method          GEBIOTA2017
20) Sample      20    40157703011 x2,,17642,BIOTA
      Datafile        041018020
      Method          GEBIOTA2017
21) Sample      21    40157703012 x3,,17642,BIOTA RS
      Datafile        041018021
      Method          GEBIOTA2017
22) Sample      22    40157703013 x3,,17642,BIOTA
      Datafile        041018022
      Method          GEBIOTA2017
23) Sample      23    40157703014 x2,,17642,BIOTA
      Datafile        041018023
      Method          GEBIOTA2017
24) Sample      24    40157703015 x15,,17642,BIOTA
      Datafile        041018024
      Method          GEBIOTA2017
25) Sample      25    40157703016 x5,,17642,BIOTA
      Datafile        041018025
      Method          GEBIOTA2017
26) Sample      26    40157703017,,17642,BIOTA
      Datafile        041018026
      Method          GEBIOTA2017
27) Sample      27    40157703018 x10,,17642,BIOTA
      Datafile        041018027
      Method          GEBIOTA2017
28) Sample      28    1232-CCV,185539:1,17498,AR123 ok
      Datafile        041018028
      Method          GEBIOTA2017
29) Sample      29    1232-CCV,185539:1,17498,AR123 ok
      Datafile        041018029
      Method          GEBIOTA2017
30) Sample      30    1669844 x10,,17642,BIOTA
      Datafile        041018030
      Method          GEBIOTA2017
31) Sample      31    1669845 x10,,17642,BIOTA
      Datafile        041018031
      Method          GEBIOTA2017
32) Sample      32    40157703019 x5,,17642,BIOTA
      Datafile        041018032
      Method          GEBIOTA2017
33) Sample      33    40157830001 x2,,17642,BIOTA
      Datafile        041018033
      Method          GEBIOTA2017
34) Sample      34    40157830002,,17642,BIOTA
      Datafile        041018034
      Method          GEBIOTA2017
35) Sample      35    40157830004 x4,,17642,BIOTA
      Datafile        041018035
      Method          GEBIOTA2017
36) Sample      36    1670714,,17645,BIOTA
      Datafile        041018036
      Method          GEBIOTA2017
37) Sample      37    1670715,,17645,BIOTA
      Datafile        041018037
      Method          GEBIOTA2017
38) Sample      38    40157487001 x2,,17645,BIOTA
      Datafile        041018038
      Method          GEBIOTA2017
39) Sample      39    40157487002 x2,,17645,BIOTA
      Datafile        041018039
      Method          GEBIOTA2017
40) Sample      40    1242-CCV,185544:1,17498,AR124 ok
      Datafile        041018040
      Method          GEBIOTA2017
41) Sample      41    1242-CCV,185544:1,17498,AR124 ok
      Datafile        041018041
      Method          GEBIOTA2017
42) Sample      42    40157487003 x2,,17645,BIOTA
      Datafile        041018042
      Method          GEBIOTA2017
43) Sample      43    40157487004,,17645,BIOTA
      Datafile        041018043

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```

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Signed: [signature] Date: 4/11/18

Signed: Jim O'Conn Date: 4-11-18

Sequence Name: C:\msdchem\1\sequence\041018.s

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40157487005	x2,,17645,BIOTA	
	Datafile		041018044		
	Method		GEBIOTA2017		
45)	Sample	45	40157487006,,17645,BIOTA		
	Datafile		041018045		
	Method		GEBIOTA2017		
46)	Sample	46	40157487007	x2,,17645,BIOTA	
	Datafile		041018046		
	Method		GEBIOTA2017		
47)	Sample	47	40157487008	x4,,17645,BIOTA	
	Datafile		041018047		
	Method		GEBIOTA2017		
48)	Sample	48	40157487009	x4,,17645,BIOTA	
	Datafile		041018048		
	Method		GEBIOTA2017		
49)	Sample	49	40157487010	x2,,17645,BIOTA	
	Datafile		041018049		
	Method		GEBIOTA2017		
50)	Sample	50	40157492001	x3,,17645,BIOTA	
	Datafile		041018050		
	Method		GEBIOTA2017		
51)	Sample	51	40157492002	x2,,17645,BIOTA	
	Datafile		041018051		
	Method		GEBIOTA2017		
52)	Sample	52	1248-CCV,185549:1,17498,AR124		ok
	Datafile		041018052		
	Method		GEBIOTA2017		
53)	Sample	53	1248-CCV,185549:1,17498,AR124		ok
	Datafile		041018053		
	Method		GEBIOTA2017		
54)	Sample	54	40157492003,,17645,BIOTA		
	Datafile		041018054		
	Method		GEBIOTA2017		
55)	Sample	55	40157492004	x2,,17645,BIOTA	
	Datafile		041018055		
	Method		GEBIOTA2017		
56)	Sample	56	40157825011,,17645,BIOTA		
	Datafile		041018056		
	Method		GEBIOTA2017		
57)	Sample	57	40157832001	x2,,17645,BIOTA	
	Datafile		041018057		
	Method		GEBIOTA2017		
58)	Sample	58	40157832002,,17645,BIOTA		
	Datafile		041018058		
	Method		GEBIOTA2017		
59)	Sample	59	40157832003	x2,,17645,BIOTA	
	Datafile		041018059		
	Method		GEBIOTA2017		
60)	Sample	60	1670716	x2,,17645,BIOTA	
	Datafile		041018060		
	Method		GEBIOTA2017		
61)	Sample	61	1670717	x2,,17645,BIOTA	
	Datafile		041018061		
	Method		GEBIOTA2017		
62)	Sample	62	40157832004,,17645,BIOTA		
	Datafile		041018062		
	Method		GEBIOTA2017		
63)	Sample	63	40157832005,,17645,BIOTA		
	Datafile		041018063		
	Method		GEBIOTA2017		
64)	Sample	64	1254-CCV,185554:1,17498,AR125		ok
	Datafile		041018064		
	Method		GEBIOTA2017		
65)	Sample	65	1254-CCV,185554:1,17498,AR125		ok
	Datafile		041018065		
	Method		GEBIOTA2017		

GCSV Batch 17642 HBN: 285493 Screened: 40GCSI 04/09/18

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GCSV Batch 17645 HBN: 285591 Screened: 40GCSI 4/10/18

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Read and Understood By

Signed 4/11/18 Date

Signed 4-11-18 Date

```
    Sequence Name: C:\msdchem\1\sequence\041118.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\041118\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          041118001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041118002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041118003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 OK
     Datafile          041118004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 OK
     Datafile          041118005
     Method            GEBIOTA2017
 6) Sample          6  40157703012 x10,,17642,BIOTA
     Datafile          041118006
     Method            GEBIOTA2017
 7) Sample          7  1671063,,17653,BIOTA
     Datafile          041118007
     Method            GEBIOTA2017
 8) Sample          8  1671064,,17653,BIOTA
     Datafile          041118008
     Method            GEBIOTA2017
 9) Sample          9  40157488006 x5,,17653,BIOTA
     Datafile          041118009
     Method            GEBIOTA2017
10) Sample         10  1671101 x5,,17653,BIOTA
     Datafile          041118010
     Method            GEBIOTA2017
11) Sample         11  1671100 x5,,17653,BIOTA
     Datafile          041118011
     Method            GEBIOTA2017
12) Sample         12  40157489006 x5,,17653,BIOTA
     Datafile          041118012
     Method            GEBIOTA2017
13) Sample         13  40157698006 x10,,17653,BIOTA
     Datafile          041118013
     Method            GEBIOTA2017
14) Sample         14  40157698007 x3,,17653,BIOTA
     Datafile          041118014
     Method            GEBIOTA2017
15) Sample         15  40157698012,,17653,BIOTA
     Datafile          041118015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041118016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041118017
     Method            GEBIOTA2017
18) Sample         18  40157698013 x2,,17653,BIOTA
     Datafile          041118018
     Method            GEBIOTA2017
19) Sample         19  40157698014 x2,,17653,BIOTA
     Datafile          041118019

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```

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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

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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

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```

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Read and Understood By

Bryan Maynard — 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
```

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Read and Understood By

Signed 4/18/18 Date

Signed 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

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```

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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

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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

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```

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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

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BLM 4/19/18

Continued on Page —

Read and Understood By

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

```
     Sequence Name: C:\msdchem\1\sequence\041918.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\041918\
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          041918001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041918002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041918003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 ok
     Datafile          041918004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 ok
     Datafile          041918005
     Method            GEBIOTA2017
 6) Sample          6  1674425 x2,,17695,BIOTA
     Datafile          041918006
     Method            GEBIOTA2017
 7) Sample          7  1674426 x2,,17695,BIOTA
     Datafile          041918007
     Method            GEBIOTA2017
 8) Sample          8  1221-CCV,185538:1,17498,AR122 ok
     Datafile          041918008
     Method            GEBIOTA2017
 9) Sample          9  1221-CCV,185538:1,17498,AR122 ok
     Datafile          041918009
     Method            GEBIOTA2017

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```

BLM 4/20/18

Continued on Page —

Read and Understood By

Signed	Date	Signed	Date
[signature]	4/20/18	[signature]	4/20/18

Standard Log Report

Standards Log Information for Standard #194128

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/17/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	10/17/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #194128

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

Composed of Information for Standard #194128

Composed of Standard Seq	Volume	Units
192551	2000	mL
190947	2000	mL

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			

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 #193359

STOCK STANDARD

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

Notes:

Sodium Sulfate SVOA baked 4/9/18

Compound Name and Concentration for Standard #193359

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 #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 #193046

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/03/2018	**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 AMC

Compound Name and Concentration for Standard #193046

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

Composed of Information for Standard #193046

Composed of Standard Seq	Volume	Units
192551	2000	mL
190941	2000	mL

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 #192624

STOCK STANDARD

Created By:	DLH	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	03/29/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	09/29/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #192624

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

Standard Log Report

Standards Log Information for Standard #192551

STOCK STANDARD

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

Notes:

Hexane SVOA TANK Changed AMC 3/28/18

Compound Name and Concentration for Standard #192551

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #192096

WORKING STANDARD

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

Notes:

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

Compound Name and Concentration for Standard #192096

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

Composed of Information for Standard #192096

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

Standard Log Report

Standards Log Information for Standard #190947

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 #190947

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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		

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 #190941

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 #190941

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

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

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

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

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

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

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

Composed of Information for Standard #188134

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

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

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

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

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

Composed of Information for Standard #188132

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

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #188129

Composed of Standard Seq	Volume	Units
185958	1	mL
184640	19	mL

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405706
Create Date:	01/12/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	01/11/2020	**Manufacturer Lot ID:**	174228	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

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

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

Created By:	BLM	**Volume of Standard:**	1 mL	**Lot ID:**	405693
Create Date:	01/02/2018	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	11/30/2023	**Manufacturer Lot ID:**	A0130424	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-ICV

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185565

Composed of Standard Seq	Volume	Units
185537	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-ICV

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185564

Composed of Standard Seq	Volume	Units
185536	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-ICV

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185563

Composed of Standard Seq	Volume	Units
185535	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-ICV

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185562

Composed of Standard Seq	Volume	Units
185534	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL5

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	1 ug/mL	PCB-1260 (Aroclor 1260)	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185561

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1500	uL
184640	97.5	mL

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

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL4

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.8 ug/mL	PCB-1260 (Aroclor 1260)	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185560

Composed of Standard Seq	Volume	Units
185533	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

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

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

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL5

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	1 ug/mL	PCB-1242 (Aroclor 1242)	1 ug/mL
PCB-1242 (Aroclor 1242)-6	1 ug/mL	PCB-1242 (Aroclor 1242)-7	1 ug/mL
PCB-1242 (Aroclor 1242)-8	1 ug/mL	PCB-1242 (Aroclor 1242)-9	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185546

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL4

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

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

Composed of Information for Standard #185545

Composed of Standard Seq	Volume	Units
185528	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL3

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	PCB-1242 (Aroclor 1242)	.5 ug/mL
PCB-1242 (Aroclor 1242)-6	.5 ug/mL	PCB-1242 (Aroclor 1242)-7	.5 ug/mL
PCB-1242 (Aroclor 1242)-8	.5 ug/mL	PCB-1242 (Aroclor 1242)-9	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185544

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL2

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.2 ug/mL	PCB-1242 (Aroclor 1242)	.2 ug/mL
PCB-1242 (Aroclor 1242)-6	.2 ug/mL	PCB-1242 (Aroclor 1242)-7	.2 ug/mL
PCB-1242 (Aroclor 1242)-8	.2 ug/mL	PCB-1242 (Aroclor 1242)-9	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185543

Composed of Standard Seq	Volume	Units
185528	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-CAL3

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1232 (Aroclor 1232)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185539

Composed of Standard Seq	Volume	Units
185527	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL3

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	PCB-1221 (Aroclor 1221)-1	.5 ug/mL
PCB-1221 (Aroclor 1221)-2	.5 ug/mL	PCB-1221 (Aroclor 1221)-3	.5 ug/mL
PCB-1221 (Aroclor 1221)-4	.5 ug/mL	PCB-1232 (Aroclor 1232)-5	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185538

Composed of Standard Seq	Volume	Units
185526	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185537

Composed of Standard Seq	Volume	Units
184640	9	mL
175600	1	mL

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185530

Composed of Standard Seq	Volume	Units
184640	9	mL
173182	1000	uL

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185529

Composed of Standard Seq	Volume	Units
184640	9	mL
173180	1000	uL

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL
PCB-1242 (Aroclor 1242)	100 ug/mL	PCB-1242 (Aroclor 1242)-6	100 ug/mL
PCB-1242 (Aroclor 1242)-7	100 ug/mL	PCB-1242 (Aroclor 1242)-8	100 ug/mL
PCB-1242 (Aroclor 1242)-9	100 ug/mL		

Composed of Information for Standard #185528

Composed of Standard Seq	Volume	Units
184640	9	mL
173178	1000	uL

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

Standard Log Report

Standards Log Information for Standard #185527

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185527

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1232 (Aroclor 1232)	100 ug/mL

Composed of Information for Standard #185527

Composed of Standard Seq	Volume	Units
184640	9	mL
173176	1000	uL

Standard Log Report

Standards Log Information for Standard #185526

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185526

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL
PCB-1221 (Aroclor 1221)-1	100 ug/mL	PCB-1221 (Aroclor 1221)-2	100 ug/mL
PCB-1221 (Aroclor 1221)-3	100 ug/mL	PCB-1221 (Aroclor 1221)-4	100 ug/mL
PCB-1232 (Aroclor 1232)-5	100 ug/mL		

Composed of Information for Standard #185526

Composed of Standard Seq	Volume	Units
184640	9	mL
173174	1000	uL

Standard Log Report

Standards Log Information for Standard #185524

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #185524

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #185524

Composed of Standard Seq	Volume	Units
184640	19	mL
178398	1	mL

Standard Log Report

Standards Log Information for Standard #184640

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405661
Create Date:	12/12/2017	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 12/12/17

Compound Name and Concentration for Standard #184640

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #179816

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	1 mL	**Lot ID:**	405540
Create Date:	10/09/2017	**Manufacturer:**	o2si	**Part ID:**	030273-11
Expire Date:	09/01/2021	**Manufacturer Lot ID:**	316120	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #179816

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #179368

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179368

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #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		

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

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405385
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030276-15
Expire Date:	01/14/2020	**Manufacturer Lot ID:**	296389	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

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

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

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405384
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030275-03
Expire Date:	03/20/2027	**Manufacturer Lot ID:**	302979	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

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

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

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

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

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

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

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

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

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

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

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

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

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

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

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

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

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

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

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

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

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

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

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

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

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

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

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

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

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

Notes:

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

Compound Name and Concentration for Standard #172034

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

Standard Log Report

Standards Log Information for Standard #81343

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81343

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

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

Standard Log Report

Standards Log Information for Standard #81342

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81342

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

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

Standard Log Report

Standards Log Information for Standard #81341

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81341

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

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

Standard Log Report

Standards Log Information for Standard #81340

INDIVIDUAL STANDARD

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

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81340

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

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

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Rev 0 **Page**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	226760	Ambient or Less	Hexane	15-Apr-2024	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.3P	1003 +/- 10.66	mg/L

403271
REC.04/22/14 BY CA
Exp. __/__/__ By -
Open __/__/__ By

Certified By: Amanda Ross

Amanda Ross

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

405341
REC. 06/23/17 BY MRN
Exp. --/--/-- By --

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130023-15	311236	≤ 6 °C	Tol.:Hex. 1:1	8-Jun-2019	Pesticide Surrogate Solution, 2,000 mg/L, 10 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
decachlorobiphenyl (BZ# 209)	2051-24-3	99.1	301.115.5P	2022 +/- 4.56	mg/L
2,4,5,6-tetrachloro-m-xylene	877-09-8	98.6	300.115.3P	1996 +/- 14.54	mg/L

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 2781200)		+/- 31.9602	µg/mL	Unstressed
	Purity ----%			+/- 41.7506	µg/mL	Stressed

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

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

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

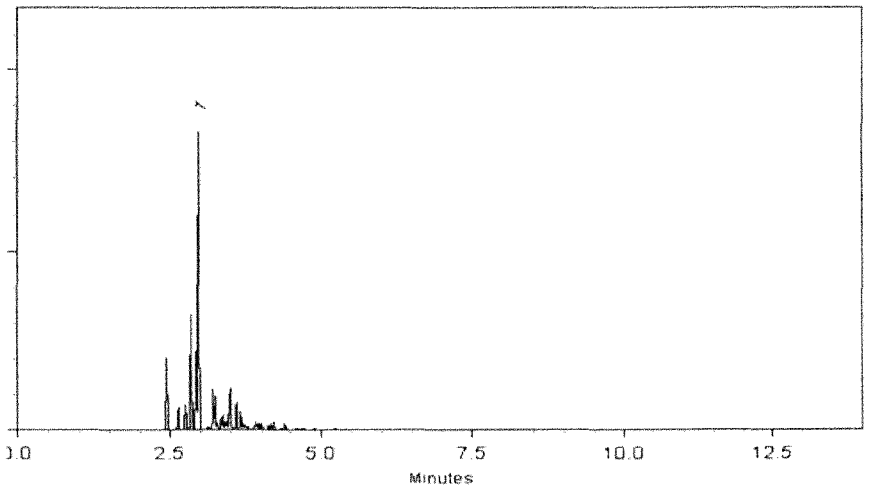
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

Date Mixed: 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

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Catalog No. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

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

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

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

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

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

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

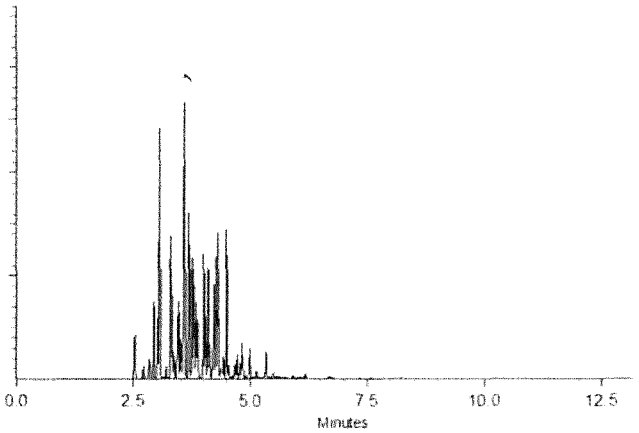
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Justine Albertson - Operations Tech.ARM QC

Date Passed: 31-Jan-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32009 **Lot No.:** A0124535

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1242	1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 53469-21-9 (Lot 01141-A)		+/- 31.7706 µg/mL	Unstressed
	Purity ----%		+/- 41.4958 µg/mL	Stressed

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

405370
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

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

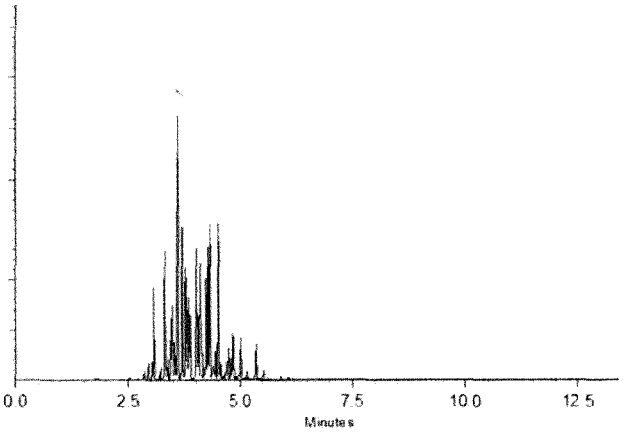
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 **Lot No.:** A0121842

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : December 31, 2022 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	996.8 µg/mL	+/- 5.8498 µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 07)		+/- 31.5925 µg/mL	Unstressed
	Purity ----%		+/- 41.2704 µg/mL	Stressed

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

405371
REC.07/06/17 BY BDS
Exp. __/__/__ By __

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

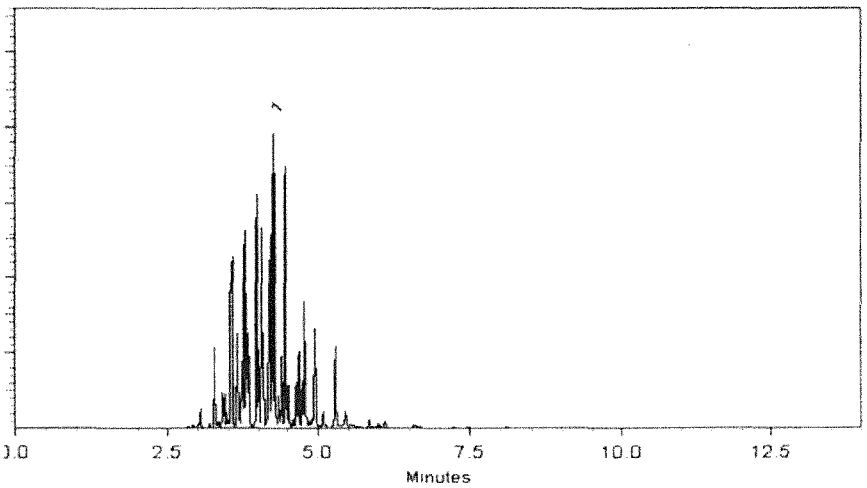
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician

Date Mixed: 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254		1,005.6 µg/mL	+/- 5.9014	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8715	µg/mL	Unstressed
	Purity ----%			+/- 41.6347	µg/mL	Stressed

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

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __

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

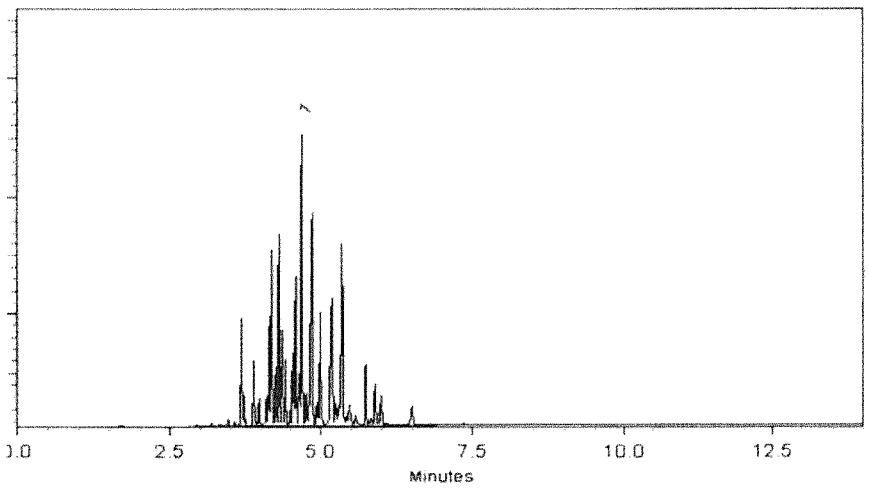
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,002.0 µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot W-125-04)		+/- 31.7498	µg/mL	Unstressed
	Purity ----%			+/- 41.4799	µg/mL	Stressed
2	Aroclor 1260		1,002.2 µg/mL	+/- 5.8403	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot W-129-06)		+/- 31.7561	µg/mL	Unstressed
	Purity ----%			+/- 41.4881	µg/mL	Stressed

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

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

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

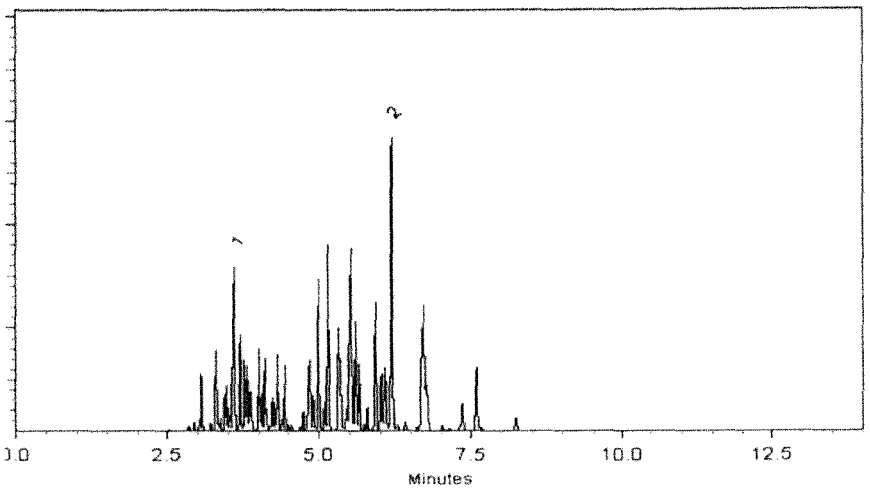
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

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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.

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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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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.

RESTEK® CERTIFIED REFERENCE MATERIAL

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Fax: (814)353-1309

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Certificate of Analysis

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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)

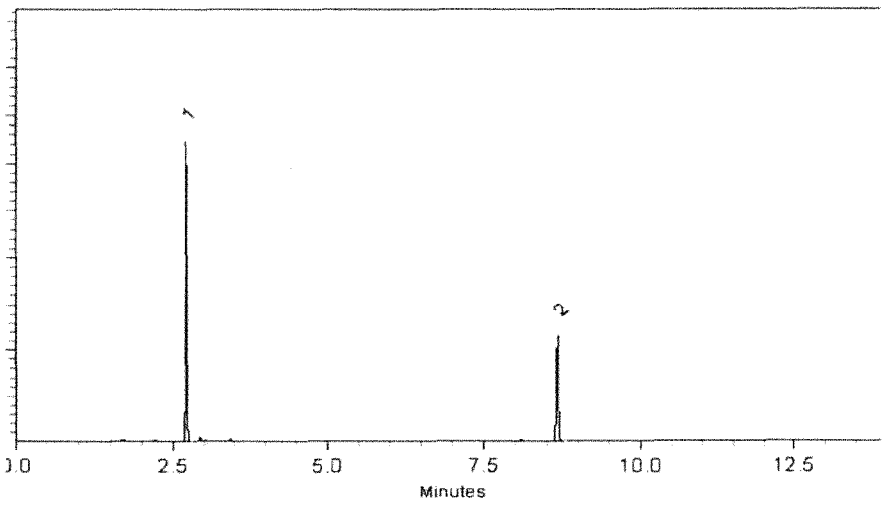
Carrier Gas:
helium-constant pressure 20 psi.

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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Muskegon, MI 49442
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®

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

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ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron
Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
Open --/--/-- By --

J.T.Baker® | avantor™

Material No.: 3375-09
Batch No.: 0000177456
Manufactured Date: 2017/05/23
Retest Date: 2022/05/22

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (Na_2SO_4)	>= 99.0 %	99.2
ACS - Insoluble Matter	<= 0.01 %	< 0.01
ACS - Loss on Ignition	<= 0.5 %	0.1
ACS - pH of 5% Solution at 25°C	5.2 - 9.2	6.0
ACS - Chloride (Cl)	<= 0.001 %	< 0.001
ACS - Phosphate (PO_4)	<= 0.001 %	< 0.001
ACS - Calcium (Ca)	<= 0.01 %	< 0.01
ACS - Iron (Fe)	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.005 %	< 0.005
ACS - Potassium (K)	<= 0.01 %	< 0.01
ACS - Extraction-Concentration Suitability *	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Nitrogen Compounds (as N)	<= 5 ppm	< 5

For Laboratory, Research or Manufacturing Use
* Result obtained on a sample dried at 400°C for one hour (ACS method)

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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

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

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

J.T.Baker | avantor

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

Certificate of Analysis

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

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

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

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

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
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Certificate #3222.01

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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)

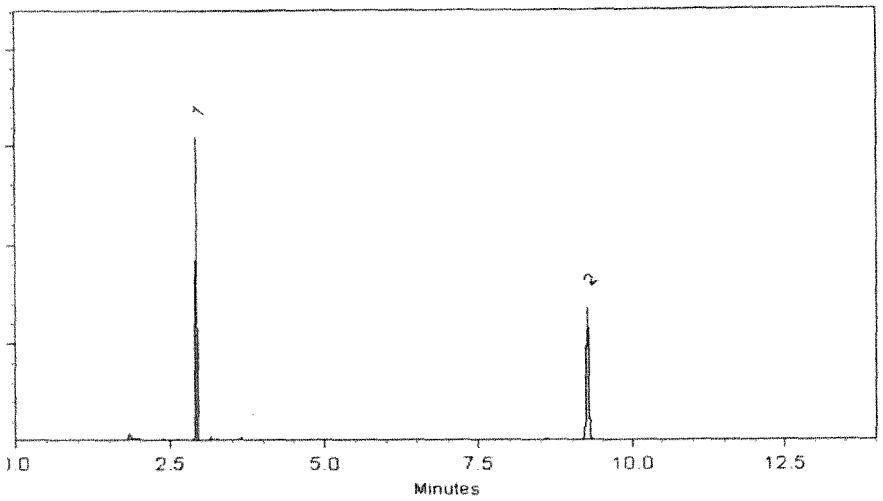
Carrier Gas:
helium-constant pressure 20 psi.

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®

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www.o2si.com

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ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 1 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
020986-02 -02-SS	297165	≤ -10 °C	P/T Methanol	16-Jan-2020	Dichlorofluoromethane (Freon 21) Gas Solution, Second Source, 2000 mg/L, 2 x 0.6 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
dichlorofluoromethane (Freon 21)	75-43-4	99	986.158.2.2.1S	2008 +/- 20.85 mg/L

405766
REC. 02/26/18 BY SMT
Exp. --/--/-- By --
Open / / By

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system that is accredited to ISO 17034 and ISO/IEC 17025.

Second Source standards are prepared according to NELAC

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

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

J.T.Baker | avantor

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

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

Certificate of Analysis

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

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

SAMPLE NO.

TD5-170619-01-BB-13

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.54		%	1	04/09/2018 06:25

SAMPLE NO.

TD5-170619-01-BB-12

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.86		%	1	04/09/2018 06:25

SAMPLE NO.

TD5-170619-01-BB-11

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.45		%	1	04/17/2018 06:58

SAMPLE NO.

TD5-170619-01-BB-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.33		%	1	04/09/2018 06:25

SAMPLE NO.

TD4-170619-01-SMB-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	04/11/2018 07:20

SAMPLE NO.

TD4-170619-01-SMB-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.59		%	1	04/11/2018 07:20

SAMPLE NO.

TD4-170619-01-SMB-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.46		%	1	04/11/2018 07:20

SAMPLE NO.

TD2-170619-01-BB-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.4		%	1	04/17/2018 06:59

SAMPLE NO.

TD2-170619-01-BB-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.0		%	1	04/17/2018 06:59

SAMPLE NO.

TD2-170619-01-BB-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.48		%	1	04/17/2018 06:59

SAMPLE NO.

TD2-170619-01-BB-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.37		%	1	04/17/2018 06:59

SAMPLE NO.

TD2-170619-01-BB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.41		%	1	04/17/2018 07:00

SAMPLE NO.

TD1-170619-01-YB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.91		%	1	04/13/2018 06:30

SAMPLE NO.

TD1-170619-01-SMB-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.49		%	1	04/11/2018 07:20

SAMPLE NO.

TD1-170619-01-SMB-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.51		%	1	04/11/2018 07:20

SAMPLE NO.

TD1-170619-01-SMB-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.48		%	1	04/18/2018 07:46

SAMPLE NO.

TD1-170619-01-SMB-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830017 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.27		%	1	04/18/2018 07:47

SAMPLE NO.

TD1-170619-01-SMB-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830018 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.83		%	1	04/18/2018 07:47

SAMPLE NO.

TD1-170619-01-BB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157830019 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	04/17/2018 07:00

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 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	1669846	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 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. : 40157830 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. : 40157830 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

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 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	1674924	C
Lipid									<0.030	U

SAMPLE NO.

1669849DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	1.1	1.0	0

SAMPLE NO.

1671713DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 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. : 40157830 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. : 40157830 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. : 40157830 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. : 40157830 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. : 40157830 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

SAMPLE NO.

1674926DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.48	0.52	8

SAMPLE NO.

1674928DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157830 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.92	1.1	21

Prep Log Report

Batch Information: OEXT 285344 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:35				

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	**1669846**	Y	-0.005000	04/09/2018 06:25:13		10	5	1	0.9278	0.9277	M	1669842
LIPID	BLANK	**1669847**	Y	0.005000	04/09/2018 06:25:13		10	5	1	0.9296	0.9297	M	1669843
LIPID	PS	**40157703002**	Y	0.8390	04/09/2018 06:25:13		10.0121	5	1	0.9246	0.9414	M	
LIPID	PS	**40157703003**	Y	1.916	04/09/2018 06:25:13		9.997	5	1	0.9257	0.964	M	
LIPID	PS	**40157703004**	Y	1.363	04/09/2018 06:25:13		9.976	5	1	0.9238	0.951	M	
LIPID	PS	**40157703006**	Y	1.172	04/09/2018 06:25:13		9.9809	5	1	0.9247	0.9481	M	
LIPID	PS	**40157703007**	Y	0.7314	04/09/2018 06:25:13		9.9813	5	1	0.9254	0.94	M	
LIPID	PS	**40157703008**	Y	0.8659	04/09/2018 06:25:13		9.9893	5	1	0.928	0.9453	M	
LIPID	PS	**40157703009**	Y	1.796	04/09/2018 06:25:13		10.025	5	1	0.9262	0.9622	M	
LIPID	PS	**40157703010**	Y	1.152	04/09/2018 06:25:13		10.0253	5	1	0.9277	0.9508	M	
LIPID	PS	**40157703011**	Y	0.9714	04/09/2018 06:25:13		9.9851	5	1	0.9255	0.9449	M	
LIPID	PS	**40157703012**	Y	0.7106	04/09/2018 06:25:13		9.9921	5	1	0.9263	0.9405	M	
LIPID	PS	**40157703013**	Y	1.050	04/09/2018 06:25:13		10.0028	5	1	0.9267	0.9477	M	
LIPID	PS	**40157703014**	Y	0.4739	04/09/2018 06:25:13		10.0241	5	1	0.9235	0.933	M	
LIPID	PS	**40157703015**	Y	1.911	04/09/2018 06:25:13		9.9707	5	1	0.9272	0.9653	M	
LIPID	PS	**40157703016**	Y	1.986	04/09/2018 06:25:13		10.0176	5	1	0.9258	0.9656	M	
LIPID	PS	**40157703017**	Y	0.3863	04/09/2018 06:25:13		9.9676	5	1	0.9213	0.929	M	
LIPID	RQS	**40157703018**	Y	1.052	04/09/2018 06:25:13		9.9767	5	1	0.9229	0.9439	M	
LIPID	DUP	**1669849**	Y	1.049	04/09/2018 06:25:13		10.011	5	1	0.9258	0.9468	M	1669845

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40157703019**	Y	1.575	04/09/2018 06:25:13		9.9989	5	1	0.9237	0.9552	M	
LIPID	PS	**40157830001**	Y	0.5409	04/09/2018 06:25:13		9.9827	5	1	0.9258	0.9366	M	
LIPID	PS	**40157830002**	Y	0.8558	04/09/2018 06:25:13		9.9911	5	1	0.9245	0.9416	M	
LIPID	PS	**40157830004**	Y	0.3347	04/09/2018 06:25:13		10.008	5	1	0.9266	0.9333	M	
LIPID	MS	**1682606**	Y	1.073	04/09/2018 06:25:13		10.0207	5	1	.9229	0.9444	M	

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

40157830

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

Prep Log Report

Batch Information: OEXT 286328 LIPID

Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID

Analysis Method	Pace Lipid	Analyzed By	ETB	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/03/2018 12:13				

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	**1674924**	Y	-0.005000	04/18/2018 07:45:48		10	5	1	0.9235	0.9234	M	1674422
LIPID	BLANK	**1674925**	Y	0.005000	04/18/2018 07:45:59		10	5	1	0.9278	0.9279	M	1674423
LIPID	PS	**40157489007**	Y	0.4661	04/18/2018 07:46:10		9.9754	5	1	0.9248	0.9341	M	
LIPID	PS	**40157830016**	Y	0.4755	04/18/2018 07:46:23		9.9901	5	1	0.9259	0.9354	M	
LIPID	DUP	**1674926**	Y	0.5153	04/18/2018 07:46:48		9.9935	5	1	0.9257	0.936	M	1674424
LIPID	PS	**40157830017**	Y	0.2748	04/18/2018 07:47:00		10.0089	5	1	0.9283	0.9338	M	
LIPID	PS	**40157830018**	Y	0.8294	04/18/2018 07:47:12		10.0076	5	1	0.9257	0.9423	M	
LIPID	PS	**40157932001**	Y	0.4406	04/18/2018 07:47:22		9.9866	5	1	0.9294	0.9382	M	
LIPID	PS	**40157932002**	Y	0.7851	04/18/2018 07:47:34		9.9983	5	1	0.923	0.9387	M	
LIPID	RQS	**40157932003**	Y	0.9190	04/18/2018 07:47:48		10.0109	5	1	0.925	0.9434	M	
LIPID	DUP	**1674928**	Y	1.136	04/18/2018 07:48:12		10.0336	5	1	0.9231	0.9459	M	1674426
LIPID	PS	**40157932004**	Y	0.5895	04/18/2018 07:48:24		10.0083	5	1	0.922	0.9338	M	
LIPID	PS	**40157932005**	Y	0.4986	04/18/2018 07:48:37		10.0271	5	1	0.9251	0.9351	M	
LIPID	PS	**40157932006**	Y	0.3849	04/18/2018 07:48:49		10.0034	5	1	0.9261	0.9338	M	
LIPID	PS	**40157932007**	Y	0.5019	04/18/2018 07:49:01		9.9623	5	1	0.9249	0.9349	M	
LIPID	PS	**40157932008**	Y	0.4653	04/18/2018 07:49:13		9.9929	5	1	0.9232	0.9325	M	
LIPID	PS	**40157932009**	Y	0.6060	04/18/2018 07:49:24		9.9828	5	1	0.9228	0.9349	M	
LIPID	PS	**40157932010**	Y	0.6323	04/18/2018 07:49:36		9.9635	5	1	0.9237	0.9363	M	
LIPID	PS	**40157932011**	Y	1.268	04/18/2018 07:50:00		10.0169	5	1	0.9237	0.9491	M	

Prep Log Report

40157830

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	MS	**1683154**	Y	1.027	04/18/2018 07:50:00		9.9796	5	1	.9207	0.9412	M	1674425

40157830

Client Name: GE
Project #: 40157830
Sample Type: Fish
Date/Time Removed to Thaw: 04-02-18
Date/Time Prepped: 04-02-18
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	B	F	Y	775.3	Y	F	90.9	Left / Both	Y	9AG	1	Y	89.3	C	
2	B	F	Y	592.7	Y	F	60.0	Left / Both	Y	9AG	1	Y	58.5	C	
3	B	F	Y	857.1	Y	F	90.5	Left / Both	Y	9AG	1	Y	89.4	C	
4	B	F	Y	834.9	Y	M	98.6	Left / Both	Y	9AG	1	Y	97.8	C	
5	A	F	Y	926.2	Y	F	213.8	Left / Both	Y	9AG	1	Y	209.1	C	
6	A	F	Y	509.0	Y	M	104.9	Left / Both	Y	9AG	1	Y	102.3	C	
7	A	F	Y	964.1	Y	M	188.0	Left / Both	Y	9AG	1	Y	182.5	C	
8	B	F	Y	574.4	Y	F	73.9	Left / Both	Y	9AG	1	Y	73.4	C	
9	B	F	Y	973.5	Y	F	105.1	Left / Both	Y	9AG	1	Y	104.4	C	
10	B	F	Y	383.8	Y	F	44.9	Left / Both	Y	9AG	1	Y	43.0	C	
11	B	F	Y	452.2	Y	F	45.4	Left / Both	Y	9AG	1	Y	44.7	C	
12	B	F	Y	607.8	Y	CWN 04-02 M F	65.5	Left / Both	Y	9AG	1	Y	63.7	C	
13	B	F	Y	267.6	Y	M	60.5	Left / Both	Y	9AG	1	Y	60.4	C	
14	A	F	Y	988.0	Y	F	199.0	Left / Both	Y	9AG	1	Y	195.3	C	
15	A	F	Y	1131.5	Y	F	242.0	Left / Both	Y	9AG	Y CWN 04-02 2		236.7	C	
16	A	F	Y	422.1	Y	F	95.6	Left / Both	Y	9AG	1	Y	93.4	C	
17	A	F	Y	865.6	Y	M	187.3	Left / Both	Y	9AG	1	Y	181.4	C	
18	A	F	Y	685.1	Y	F	152.5	Left / Both	Y	9AG	1	Y	147.3	C	
19	B	F	Y	344.7	Y	M	51.1	Left / Both	Y	9AG	1	Y	49.6	C	
						CWN 04-02-18		Left / Both							

(1) M = Male, F = Female, U = Undetermined

(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.

(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	F-7-345-DSAB
32AG	32 oz Amber Glass	

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

4/27/19
Date