Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40151613

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

May 03, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on June 14, 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
Pace Project No.: 40151613

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
Pace Project No.: 40151613

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151613001	**FD1-170613-01-SMB-03**	Tissue	06/13/17 11:34	06/14/17 09:50
40151613002	**FD1-170613-01-SMB-02**	Tissue	06/13/17 11:33	06/14/17 09:50
40151613003	**FD1-170613-01-LMB-11**	Tissue	06/13/17 11:27	06/14/17 09:50
40151613004	**FD1-170613-01-LMB-10**	Tissue	06/13/17 11:25	06/14/17 09:50
40151613005	**FD1-170613-01-LMB-09**	Tissue	06/13/17 11:23	06/14/17 09:50
40151613006	**FD1-170613-01-LMB-08**	Tissue	06/13/17 11:21	06/14/17 09:50
40151613007	**FD1-170613-01-LMB-07**	Tissue	06/13/17 11:19	06/14/17 09:50
40151613008	**FD1-170613-01-LMB-06**	Tissue	06/13/17 11:17	06/14/17 09:50
40151613009	**FD1-170613-01-LMB-05**	Tissue	06/13/17 11:15	06/14/17 09:50
40151613010	**FD1-170613-01-LMB-04**	Tissue	06/13/17 11:13	06/14/17 09:50
40151613011	**FD1-170613-01-LMB-03**	Tissue	06/13/17 11:10	06/14/17 09:50
40151613012	**FD1-170613-01-LMB-02**	Tissue	06/13/17 11:08	06/14/17 09:50
40151613013	**FD1-170613-01-LMB-01**	Tissue	06/13/17 11:06	06/14/17 09:50
40151613014	**FD1-170613-01-SMB-01**	Tissue	06/13/17 10:07	06/14/17 09:50

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40151613001	FD1-170613-01-SMB-03	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40151613002	FD1-170613-01-SMB-02	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1
40151613003	FD1-170613-01-LMB-11	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151613004	FD1-170613-01-LMB-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151613005	FD1-170613-01-LMB-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151613006	FD1-170613-01-LMB-08	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151613007	FD1-170613-01-LMB-07	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151613008	FD1-170613-01-LMB-06	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151613009	FD1-170613-01-LMB-05	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151613010	FD1-170613-01-LMB-04	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151613011	FD1-170613-01-LMB-03	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151613012	FD1-170613-01-LMB-02	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151613013	FD1-170613-01-LMB-01	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40151613014	**FD1-170613-01-SMB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	ETB	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Date: May 03, 2018

Samples may have ice meltwater in the ziplock bags.

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 03, 2018

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

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

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

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

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

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

QC Batch: 284104

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

- DUP (Lab ID: 1662969)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 1662968)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

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

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

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

QC Batch: 284104

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40151616010

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

- MS (Lab ID: 1662968)
  - PCB-1242 (Aroclor 1242)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 03, 2018

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

Additional Comments:

Analyte Comments:

QC Batch: 284104

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

- DUP (Lab ID: 1662969)
  - PCB-1016 (Aroclor 1016)
- MS (Lab ID: 1662968)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Method: **Pace Gender Typing**
Description: Fish Gender Typing
Client: General Electric
Date: May 03, 2018

General Information:
14 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
Pace Project No.: 40151613

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 03, 2018

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

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

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

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

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

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

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

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

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

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

QC Batch: 283464

R1: RPD value was outside control limits.

- DUP (Lab ID: 1659976)
  - Lipid

Additional Comments:

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

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-SMB-03 **Lab ID: 40151613001** Collected: 06/13/17 11:34 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 18:41	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 18:41	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 18:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 18:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**11.8J**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 18:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**16.9J**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 18:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**39.1J**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 18:41	11096-82-5	
PCB, Total	**67.8**	ug/kg	50.1	11.4	1	03/28/18 08:09	03/30/18 18:41	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	60-140		1	03/28/18 08:09	03/30/18 18:41	877-09-8	
Decachlorobiphenyl (S)	85	%	60-140		1	03/28/18 08:09	03/30/18 18:41	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/14/18 15:14		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.30**	%	0.030	0.030	1		03/29/18 07:09		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-SMB-02 **Lab ID: 40151613002** Collected: 06/13/17 11:33 Received: 06/14/17 09:50 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	03/28/18 08:09	03/30/18 19:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 19:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 19:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 19:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**54.5**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 19:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**39.6J**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 19:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**29.9J**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 19:45	11096-82-5	
PCB, Total	**124**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 19:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	80	%	60-140		1	03/28/18 08:09	03/30/18 19:45	877-09-8	
Decachlorobiphenyl (S)	87	%	60-140		1	03/28/18 08:09	03/30/18 19:45	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/14/18 15:14		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.34**	%	0.030	0.030	1		03/29/18 07:09		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-LMB-11 **Lab ID: 40151613003** Collected: 06/13/17 11:27 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:11	11096-82-5	
PCB, Total	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:11	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		1	03/15/18 07:20	03/16/18 19:11	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		1	03/15/18 07:20	03/16/18 19:11	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:14		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.36**	%	0.030	0.030	1		03/16/18 06:44		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-LMB-10 **Lab ID: 40151613004** Collected: 06/13/17 11:25 Received: 06/14/17 09:50 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	03/15/18 07:20	03/16/18 19:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 19:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 19:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 19:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**35.9J**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 19:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**32.9J**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 19:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**44.2J**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 19:26	11096-82-5	
PCB, Total	**113**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 19:26	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		1	03/15/18 07:20	03/16/18 19:26	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		1	03/15/18 07:20	03/16/18 19:26	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:14		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.5**	%	0.030	0.030	1		03/16/18 06:44		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-LMB-09 **Lab ID: 40151613005** Collected: 06/13/17 11:23 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:58	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**17.2J**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**17.3J**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**26.7J**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:58	11096-82-5	
PCB, Total	**61.2**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 19:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		1	03/15/18 07:20	03/16/18 19:58	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		1	03/15/18 07:20	03/16/18 19:58	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/14/18 15:14		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.37**	%	0.030	0.030	1		03/16/18 06:44		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-LMB-08 **Lab ID: 40151613006** Collected: 06/13/17 11:21 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 20:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 20:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 20:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 20:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 20:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 20:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**17.9J**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 20:14	11096-82-5	
PCB, Total	**17.9J**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 20:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	60-140		1	03/15/18 07:20	03/16/18 20:14	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		1	03/15/18 07:20	03/16/18 20:14	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/14/18 15:14		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.24**	%	0.030	0.030	1		03/16/18 06:44		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-LMB-07 **Lab ID: 40151613007** Collected: 06/13/17 11:19 Received: 06/14/17 09:50 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	03/15/18 07:20	03/16/18 20:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 20:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 20:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 20:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 20:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 20:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 20:30	11096-82-5	
PCB, Total	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 20:30	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	80	%	60-140		1	03/15/18 07:20	03/16/18 20:30	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		1	03/15/18 07:20	03/16/18 20:30	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:14		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.19**	%	0.030	0.030	1		03/16/18 06:44		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-LMB-06 **Lab ID: 40151613008** Collected: 06/13/17 11:17 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**13.2J**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**12.8J**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**14.0J**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:17	11096-82-5	
PCB, Total	**39.9J**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		1	03/15/18 07:20	03/16/18 21:17	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		1	03/15/18 07:20	03/16/18 21:17	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/14/18 15:15		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.39**	%	0.030	0.030	1		03/16/18 06:44		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-LMB-05 **Lab ID: 40151613009** Collected: 06/13/17 11:15 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**22.1J**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**19.4J**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**20.4J**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:33	11096-82-5	
PCB, Total	**61.9**	ug/kg	50.1	11.4	1	03/15/18 07:20	03/16/18 21:33	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		1	03/15/18 07:20	03/16/18 21:33	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		1	03/15/18 07:20	03/16/18 21:33	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/14/18 15:15		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.40**	%	0.030	0.030	1		03/16/18 06:44		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-LMB-04 **Lab ID: 40151613010** Collected: 06/13/17 11:13 Received: 06/14/17 09:50 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	03/15/18 07:20	03/16/18 21:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 21:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 21:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 21:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 21:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 21:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 21:49	11096-82-5	
PCB, Total	**<11.4**	ug/kg	50.0	11.4	1	03/15/18 07:20	03/16/18 21:49	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	60-140		1	03/15/18 07:20	03/16/18 21:49	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		1	03/15/18 07:20	03/16/18 21:49	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:15		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.29**	%	0.030	0.030	1		03/16/18 06:44		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-LMB-03 **Lab ID: 40151613011** Collected: 06/13/17 11:10 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 22:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 22:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 22:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 22:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 22:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 22:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 22:04	11096-82-5	
PCB, Total	**<11.4**	ug/kg	49.9	11.4	1	03/15/18 07:20	03/16/18 22:04	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		1	03/15/18 07:20	03/16/18 22:04	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		1	03/15/18 07:20	03/16/18 22:04	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:15		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.38**	%	0.030	0.030	1		03/16/18 06:44		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-LMB-02 **Lab ID: 40151613012** Collected: 06/13/17 11:08 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:17	11096-82-5	
PCB, Total	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	03/23/18 07:10	03/27/18 16:17	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		1	03/23/18 07:10	03/27/18 16:17	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:15		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.32**	%	0.030	0.030	1		03/23/18 14:11		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-LMB-01 **Lab ID: 40151613013** Collected: 06/13/17 11:06 Received: 06/14/17 09:50 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:49	11096-82-5	
PCB, Total	**<11.4**	ug/kg	50.1	11.4	1	03/23/18 07:10	03/27/18 16:49	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		1	03/23/18 07:10	03/27/18 16:49	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		1	03/23/18 07:10	03/27/18 16:49	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:15		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.22**	%	0.030	0.030	1		03/23/18 14:11		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Sample: FD1-170613-01-SMB-01 **Lab ID: 40151613014** Collected: 06/13/17 10:07 Received: 06/14/17 09:50 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	03/28/18 08:09	03/30/18 20:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 20:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 20:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 20:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**<11.4**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 20:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**<11.4**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 20:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**13.3J**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 20:48	11096-82-5	
PCB, Total	**13.3J**	ug/kg	50.0	11.4	1	03/28/18 08:09	03/30/18 20:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	80	%	60-140		1	03/28/18 08:09	03/30/18 20:48	877-09-8	
Decachlorobiphenyl (S)	86	%	60-140		1	03/28/18 08:09	03/30/18 20:48	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/14/18 15:15		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.31**	%	0.030	0.030	1		03/29/18 07:10		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

QC Batch: 283333 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151613003, 40151613004, 40151613005, 40151613006, 40151613007, 40151613008, 40151613009, 40151613010, 40151613011

METHOD BLANK: 1659195 | Matrix: Tissue
Associated Lab Samples: 40151613003, 40151613004, 40151613005, 40151613006, 40151613007, 40151613008, 40151613009, 40151613010, 40151613011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/16/18 14:57	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/16/18 14:57	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/16/18 14:57	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/16/18 14:57	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/16/18 14:57	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/16/18 14:57	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/16/18 14:57	
Decachlorobiphenyl (S)	%	91	60-140		03/16/18 14:57	
Tetrachloro-m-xylene (S)	%	83	60-140		03/16/18 14:57	

LABORATORY CONTROL SAMPLE: 1659196

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)	%			96	60-140	
Tetrachloro-m-xylene (S)	%			83	60-140	

MATRIX SPIKE SAMPLE: 1659197

Parameter	Units	40151605003 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	<11.4		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	250	263	105	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	121		279			
PCB-1254 (Aroclor 1254)	ug/kg	77.0		106			
PCB-1260 (Aroclor 1260)	ug/kg	22.3J		25.7J			
Decachlorobiphenyl (S)	%				91	60-140	
Tetrachloro-m-xylene (S)	%				87	60-140	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

SAMPLE DUPLICATE: 1659198

Parameter	Units	40151605003 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<11.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	121	133	10	40	
PCB-1254 (Aroclor 1254)	ug/kg	77.0	87.1	12	40	
PCB-1260 (Aroclor 1260)	ug/kg	22.3J	26.6J		40	
Decachlorobiphenyl (S)	%	96	95	1		
Tetrachloro-m-xylene (S)	%	89	89	0		

SAMPLE DUPLICATE: 1659199

Parameter	Units	40151608010 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	39.8J	35.3J		40	
PCB-1254 (Aroclor 1254)	ug/kg	31.2J	27.3J		40	
PCB-1260 (Aroclor 1260)	ug/kg	16.7J	14.5J		40	
Decachlorobiphenyl (S)	%	99	85	16		
Tetrachloro-m-xylene (S)	%	89	76	16		

SAMPLE DUPLICATE: 1659200

Parameter	Units	40151613004 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	35.9J	19.7J		40	
PCB-1254 (Aroclor 1254)	ug/kg	32.9J	17.8J		40	
PCB-1260 (Aroclor 1260)	ug/kg	44.2J	22.2J		40	
Decachlorobiphenyl (S)	%	100	89	12		
Tetrachloro-m-xylene (S)	%	96	82	15		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

QC Batch: 284104 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151613012, 40151613013

METHOD BLANK: 1662965 | Matrix: Tissue
Associated Lab Samples: 40151613012, 40151613013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/27/18 15:30	
Decachlorobiphenyl (S)	%	83	60-140		03/27/18 15:30	
Tetrachloro-m-xylene (S)	%	71	60-140		03/27/18 15:30	

LABORATORY CONTROL SAMPLE: 1662966

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	259	103	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: 1662968

Parameter	Units	40151616010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<456		<458			1q
PCB-1221 (Aroclor 1221)	ug/kg	4140		4040			
PCB-1232 (Aroclor 1232)	ug/kg	<456		<458			
PCB-1242 (Aroclor 1242)	ug/kg	<456	251	<458	0	70-130	M6
PCB-1248 (Aroclor 1248)	ug/kg	489J		736J			
PCB-1254 (Aroclor 1254)	ug/kg	<456		471J			
PCB-1260 (Aroclor 1260)	ug/kg	<456		<458			
Decachlorobiphenyl (S)	%				0	60-140	S4
Tetrachloro-m-xylene (S)	%				0	60-140	S4

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

SAMPLE DUPLICATE: 1662967

Parameter	Units	40151613012 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	<11.4	<11.4		40	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	<11.4		40	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	<11.4		40	
Decachlorobiphenyl (S)	%	93	94	1		
Tetrachloro-m-xylene (S)	%	89	90	1		

SAMPLE DUPLICATE: 1662969

Parameter	Units	40151616010 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<456	<342		40	1q
PCB-1221 (Aroclor 1221)	ug/kg	4140	3480	17	40	
PCB-1232 (Aroclor 1232)	ug/kg	<456	<342		40	
PCB-1242 (Aroclor 1242)	ug/kg	<456	<342		40	
PCB-1248 (Aroclor 1248)	ug/kg	489J	420J		40	
PCB-1254 (Aroclor 1254)	ug/kg	<456	<342		40	
PCB-1260 (Aroclor 1260)	ug/kg	<456	<342		40	
Decachlorobiphenyl (S)	%	0	0			S4
Tetrachloro-m-xylene (S)	%	0	0			S4

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

QC Batch: 284454 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40151613001, 40151613002, 40151613014

METHOD BLANK: 1664793 | Matrix: Tissue
Associated Lab Samples: 40151613001, 40151613002, 40151613014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/30/18 17:22	
Decachlorobiphenyl (S)	%	89	60-140		03/30/18 17:22	
Tetrachloro-m-xylene (S)	%	76	60-140		03/30/18 17:22	

LABORATORY CONTROL SAMPLE: 1664794

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)	%			92	60-140	
Tetrachloro-m-xylene (S)	%			81	60-140	

MATRIX SPIKE SAMPLE: 1664795

Parameter	Units	40151613001 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	<11.4		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	251	238	95	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	11.8J		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg	16.9J		43.4J			
PCB-1260 (Aroclor 1260)	ug/kg	39.1J		35.7J			
Decachlorobiphenyl (S)	%				82	60-140	
Tetrachloro-m-xylene (S)	%				79	60-140	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

SAMPLE DUPLICATE: 1664796

Parameter	Units	40151613001 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	11.8J	11.4J		40	
PCB-1254 (Aroclor 1254)	ug/kg	16.9J	16.6J		40	
PCB-1260 (Aroclor 1260)	ug/kg	39.1J	36.6J		40	
Decachlorobiphenyl (S)	%	85	90	5		
Tetrachloro-m-xylene (S)	%	82	81	1		

SAMPLE DUPLICATE: 1664809

Parameter	Units	40157825001 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	272	344	23	40	
PCB-1254 (Aroclor 1254)	ug/kg	114	147	25	40	
PCB-1260 (Aroclor 1260)	ug/kg	20.1J	26.4J		40	
Decachlorobiphenyl (S)	%	90	93	2		
Tetrachloro-m-xylene (S)	%	86	85	1		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

QC Batch: 283464 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151613003, 40151613004, 40151613005, 40151613006, 40151613007, 40151613008, 40151613009, 40151613010, 40151613011

METHOD BLANK: 1659971 | Matrix: Tissue
Associated Lab Samples: 40151613003, 40151613004, 40151613005, 40151613006, 40151613007, 40151613008, 40151613009, 40151613010, 40151613011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/16/18 06:44	

MATRIX SPIKE SAMPLE: 1682442

Parameter	Units	40151605003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.27		0.26			

SAMPLE DUPLICATE: 1659974

Parameter	Units	40151605003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.27	0.30	9	40	

SAMPLE DUPLICATE: 1659975

Parameter	Units	40151608010 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.28	0.22	24	40	

SAMPLE DUPLICATE: 1659976

Parameter	Units	40151613004 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.5	0.98	41	40	R1

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

QC Batch: 284178 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151613012, 40151613013

METHOD BLANK: 1663325 | Matrix: Tissue
Associated Lab Samples: 40151613012, 40151613013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/23/18 14:11	

MATRIX SPIKE SAMPLE: 1682513

Parameter	Units	40151616010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.43		0.47			

SAMPLE DUPLICATE: 1663327

Parameter	Units	40151613012 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.32	0.27	15	40	

SAMPLE DUPLICATE: 1663329

Parameter	Units	40151616010 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.43	0.37	16	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

QC Batch: 284607 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40151613001, 40151613002, 40151613014

METHOD BLANK: 1665662 | Matrix: Tissue
Associated Lab Samples: 40151613001, 40151613002, 40151613014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/29/18 07:08	

MATRIX SPIKE SAMPLE: 1682554

Parameter	Units	40151613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.30		0.27			

SAMPLE DUPLICATE: 1665665

Parameter	Units	40151613001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.30	0.28	7	40	

SAMPLE DUPLICATE: 1665666

Parameter	Units	40157825001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.39	0.44	13	40	

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

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

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

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.

WORKORDER QUALIFIERS

WO: 40151613

[1] Samples may have ice meltwater in the ziplock bags.

ANALYTE QUALIFIERS

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

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

R1 RPD value was outside control limits.

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION
Pace Project No.: 40151613

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151613001	**FD1-170613-01-SMB-03**	EPA 3541	284454	EPA 8082A Mod	284630
40151613002	**FD1-170613-01-SMB-02**	EPA 3541	284454	EPA 8082A Mod	284630
40151613003	**FD1-170613-01-LMB-11**	EPA 3541	283333	EPA 8082A Mod	283493
40151613004	**FD1-170613-01-LMB-10**	EPA 3541	283333	EPA 8082A Mod	283493
40151613005	**FD1-170613-01-LMB-09**	EPA 3541	283333	EPA 8082A Mod	283493
40151613006	**FD1-170613-01-LMB-08**	EPA 3541	283333	EPA 8082A Mod	283493
40151613007	**FD1-170613-01-LMB-07**	EPA 3541	283333	EPA 8082A Mod	283493
40151613008	**FD1-170613-01-LMB-06**	EPA 3541	283333	EPA 8082A Mod	283493
40151613009	**FD1-170613-01-LMB-05**	EPA 3541	283333	EPA 8082A Mod	283493
40151613010	**FD1-170613-01-LMB-04**	EPA 3541	283333	EPA 8082A Mod	283493
40151613011	**FD1-170613-01-LMB-03**	EPA 3541	283333	EPA 8082A Mod	283493
40151613012	**FD1-170613-01-LMB-02**	EPA 3541	284104	EPA 8082A Mod	284353
40151613013	**FD1-170613-01-LMB-01**	EPA 3541	284104	EPA 8082A Mod	284353
40151613014	**FD1-170613-01-SMB-01**	EPA 3541	284454	EPA 8082A Mod	284630
40151613001	**FD1-170613-01-SMB-03**	Pace Gender Typing	283309		
40151613002	**FD1-170613-01-SMB-02**	Pace Gender Typing	283309		
40151613003	**FD1-170613-01-LMB-11**	Pace Gender Typing	283309		
40151613004	**FD1-170613-01-LMB-10**	Pace Gender Typing	283309		
40151613005	**FD1-170613-01-LMB-09**	Pace Gender Typing	283309		
40151613006	**FD1-170613-01-LMB-08**	Pace Gender Typing	283309		
40151613007	**FD1-170613-01-LMB-07**	Pace Gender Typing	283309		
40151613008	**FD1-170613-01-LMB-06**	Pace Gender Typing	283309		
40151613009	**FD1-170613-01-LMB-05**	Pace Gender Typing	283309		
40151613010	**FD1-170613-01-LMB-04**	Pace Gender Typing	283309		
40151613011	**FD1-170613-01-LMB-03**	Pace Gender Typing	283309		
40151613012	**FD1-170613-01-LMB-02**	Pace Gender Typing	283309		
40151613013	**FD1-170613-01-LMB-01**	Pace Gender Typing	283309		
40151613014	**FD1-170613-01-SMB-01**	Pace Gender Typing	283309		
40151613001	**FD1-170613-01-SMB-03**	Pace Lipid	284607		
40151613002	**FD1-170613-01-SMB-02**	Pace Lipid	284607		
40151613003	**FD1-170613-01-LMB-11**	Pace Lipid	283464		
40151613004	**FD1-170613-01-LMB-10**	Pace Lipid	283464		
40151613005	**FD1-170613-01-LMB-09**	Pace Lipid	283464		
40151613006	**FD1-170613-01-LMB-08**	Pace Lipid	283464		
40151613007	**FD1-170613-01-LMB-07**	Pace Lipid	283464		
40151613008	**FD1-170613-01-LMB-06**	Pace Lipid	283464		
40151613009	**FD1-170613-01-LMB-05**	Pace Lipid	283464		
40151613010	**FD1-170613-01-LMB-04**	Pace Lipid	283464		
40151613011	**FD1-170613-01-LMB-03**	Pace Lipid	283464		
40151613012	**FD1-170613-01-LMB-02**	Pace Lipid	284178		
40151613013	**FD1-170613-01-LMB-01**	Pace Lipid	284178		
40151613014	**FD1-170613-01-SMB-01**	Pace Lipid	284607		

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40151613

RMW

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170613-T11-02
Sample Custodian: MCS
Lab: Pace - Green Bay

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

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	FD1-170613-01	FD1-170613-01-SMB-08	6/13/2017	11:43	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
002	FD1-170613-01	FD1-170613-01-SMB-07	6/13/2017	11:41	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	FD1-170613-01	FD1-170613-01-SMB-06	6/13/2017	11:40	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	FD1-170613-01	FD1-170613-01-SMB-05	6/13/2017	11:38	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	FD1-170613-01	FD1-170613-01-SMB-04	6/13/2017	11:36	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
001 006	FD1-170613-01	FD1-170613-01-SMB-03	6/13/2017	11:34	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
002 007	FD1-170613-01	FD1-170613-01-SMB-02	6/13/2017	11:33	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004 008	FD1-170613-01	FD1-170613-01-SMB-01	6/13/2017	10:07	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	FD1-170613-01	FD1-170613-01-LMB-12	6/13/2017	11:30	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003 010	FD1-170613-01	FD1-170613-01-LMB-11	6/13/2017	11:27	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

A

1-Ziploc

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name Heather	Print Name	Print Name	Print Name	Print Name
Company Fedex	Company Pace	Company	Company	Company	Company
Date/Time 6/14/17 0950	Date/Time 6/14/17 0950	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 6/13/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal ***COC TYPE:*** *TPCB-LIPD-PEST-MERCURY* ***Page 1 of 2***

40151613

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170613-T11-02
Sample Custodian: MCS
Lab: Pace - Green Bay

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

	COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
004	011	FD1-170613-01	FD1-170613-01-LMB-10	6/13/2017	11:25	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	012	FD1-170613-01	FD1-170613-01-LMB-09	6/13/2017	11:23	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	013	FD1-170613-01	FD1-170613-01-LMB-08	6/13/2017	11:21	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	014	FD1-170613-01	FD1-170613-01-LMB-07	6/13/2017	11:19	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	015	FD1-170613-01	FD1-170613-01-LMB-06	6/13/2017	11:17	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	016	FD1-170613-01	FD1-170613-01-LMB-05	6/13/2017	11:15	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	017	FD1-170613-01	FD1-170613-01-LMB-04	6/13/2017	11:13	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
011	018	FD1-170613-01	FD1-170613-01-LMB-03	6/13/2017	11:10	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
012	019	FD1-170613-01	FD1-170613-01-LMB-02	6/13/2017	11:08	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	020	FD1-170613-01	FD1-170613-01-LMB-01	6/13/2017	11:06	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

1-ziploc A

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company Fed-Ex	Company Pace	Company	Company	Company	Company
Date/Time 6/14/17 0150	Date/Time 6/14/17 0950	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 6/13/2017 * 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#: 40151613
40151613

Client Name: Anchor

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

Tracking #: 786867884126, 786867884090, 786867884104

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

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

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

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

Cooler Temperature Uncorr: 2.3, 3 /Corr: 2.3, 3 **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: 6/14/17
Initials: [illegible]

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

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

Person Contacted: Date/Time:

Comments/ Resolution: all samples have melt water in ziploc [illegible] 6/14/17

Project Manager Review: AL for TN **Date:** 6/14/17

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40151613
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 3°C. Following homogenization, tissue samples were kept frozen at less than -10°C until time of preparation for analysis.

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

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

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

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

D. Spikes:
1. **Lab Control Spike (LCS):** The control spikes were fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Sample FD1-170613-01-SMB-03 was designated as the parent sample for the MS for this SDG and one portion of the sample was fortified with Aroclor 1242. The QAPP specified accuracy criteria were met. Batch QC was also analyzed with this SDG.

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

F. Sample Duplicate: Samples FD1-170613-01-LMB-10, FD1-170613-01-LMB-02, and FD1-170613-01-SMB-03 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: None required for this SDG.

H. Reanalysis: None required for this SDG.

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

Sample FD1-170613-01-LMB-10 was designated as the parent duplicate sample for Lipid DUP 1659976. The QAPP specified precision criteria were not met for DUP 1659976; the parent sample was reported with the “R1” data qualifier.

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

Signed: Leigh A Begalske Date: 05/10/18

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.: 40151613 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1659195	1659195BLANK	91	83
1659196	1659196LCS	96	83
1659200	1659200DUP	89	82
40151613003	FD1-170613-01-LMB-11	98	92
40151613004	FD1-170613-01-LMB-10	100	96
40151613005	FD1-170613-01-LMB-09	101	96
40151613006	FD1-170613-01-LMB-08	96	81
40151613007	FD1-170613-01-LMB-07	91	80
40151613008	FD1-170613-01-LMB-06	93	85
40151613009	FD1-170613-01-LMB-05	96	87
40151613010	FD1-170613-01-LMB-04	95	83
40151613011	FD1-170613-01-LMB-03	95	86

	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.: 40151613 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1662965	1662965BLANK	83	71
1662966	1662966LCS	94	84
1662967	1662967DUP	94	90
40151613012	FD1-170613-01-LMB-02	93	89
40151613013	FD1-170613-01-LMB-01	93	88

	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.: 40151613 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1664793	1664793BLANK	89	76
1664794	1664794LCS	92	81
1664795	1664795MS	82	79
1664796	1664796DUP	90	81
40151613001	FD1-170613-01-SMB-03	85	82
40151613002	FD1-170613-01-SMB-02	87	80
40151613014	FD1-170613-01-SMB-01	86	80

	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: 03/15/2018

Instrument: 40GCSJ

Lab File ID: 031618.B\031618007.D

Lab Sample ID: 1659196LCS

Date Analyzed (1): 03/16/2018

LCS Lot No: 182336

SDG No.: 40151613

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.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/23/2018

Instrument: 40GCSJ

Lab File ID: 032718.B\032718011.D

Lab Sample ID: 1662966LCS

Date Analyzed (1): 03/27/2018

LCS Lot No: 182336

SDG No.: 40151613

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	259	103	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/28/2018

Instrument: 40GCSJ

Lab File ID: 033018.B\033018011.D

Lab Sample ID: 1664794LCS

Date Analyzed (1): 03/30/2018

LCS Lot No: 182336

SDG No.: 40151613

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 SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/15/2018

Instrument: 40GCSJ

Parent Sample ID: 40151605003

Matrix Spike - Sample No: 1659197MS

Date Analyzed (1): 03/16/2018

Lab File ID: 031618.B\031618008.D

SDG No.: 40151613

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	263	105	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/23/2018

Instrument: 40GCSJ

Parent Sample ID: 40151616010

Matrix Spike - Sample No: 1662968MS

Date Analyzed (1): 03/30/2018

Lab File ID: 033018.B\033018006.D

SDG No.: 40151613

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	251	<456	<458	0	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: 03/28/2018

Instrument: 40GCSJ

Parent Sample ID: FD1-170613-01-SMB-03

Matrix Spike - Sample No: 1664795MS

Date Analyzed (1): 03/30/2018

Lab File ID: 033018.B\033018012.D

SDG No.: 40151613

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	238	95	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/15/2018

Instrument 40GCSJ

Lab Sample ID: 40151605003

Duplicate Sample No: 40151605003DUP

Date Analyzed: 03/16/2018

Lab File ID: 031618.B\031618010.D

SDG No.: 40151613

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	<11.4	<11.4		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	121	133	10	0-40
PCB-1254 (Aroclor 1254)	77.0	87.1	12	0-40
PCB-1260 (Aroclor 1260)	22.3J	26.6J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/15/2018

Instrument 40GCSJ

Lab Sample ID: 40151608010

Duplicate Sample No: 40151608010DUP

Date Analyzed: 03/16/2018

Lab File ID: 031618.B\031618021.D

SDG No.: 40151613

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)	39.8J	35.3J		0-40
PCB-1254 (Aroclor 1254)	31.2J	27.3J		0-40
PCB-1260 (Aroclor 1260)	16.7J	14.5J		0-40

RPD: ____ out of __0__ outside limits.

PCB - FORM III SVOA-3

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/15/2018

Instrument 40GCSJ

Lab Sample ID: FD1-170613-01-LMB-10

Duplicate Sample No: 40151613004DUP

Date Analyzed: 03/16/2018

Lab File ID: 031618.B\031618024.D

SDG No.: 40151613

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)	35.9J	19.7J		0-40
PCB-1254 (Aroclor 1254)	32.9J	17.8J		0-40
PCB-1260 (Aroclor 1260)	44.2J	22.2J		0-40

RPD: ____ out of __0__ outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/23/2018

Instrument 40GCSJ

Lab Sample ID: 40151616010

Duplicate Sample No: 40151616010DUP

Date Analyzed: 03/28/2018

Lab File ID: 032818.B\032818011.D

SDG No.: 40151613

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<456	<342		0-40
PCB-1221 (Aroclor 1221)	4140	3480	17	0-40
PCB-1232 (Aroclor 1232)	<456	<342		0-40
PCB-1242 (Aroclor 1242)	<456	<342		0-40
PCB-1248 (Aroclor 1248)	489J	420J		0-40
PCB-1254 (Aroclor 1254)	<456	<342		0-40
PCB-1260 (Aroclor 1260)	<456	<342		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: 03/23/2018

Instrument 40GCSJ

Lab Sample ID: FD1-170613-01-LMB-02

Duplicate Sample No: 40151613012DUP

Date Analyzed: 03/27/2018

Lab File ID: 032718.B\032718014.D

SDG No.: 40151613

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)	<11.4	<11.4		0-40
PCB-1254 (Aroclor 1254)	<11.4	<11.4		0-40
PCB-1260 (Aroclor 1260)	<11.4	<11.4		0-40

RPD: ____ out of __0__ outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/28/2018

Instrument 40GCSJ

Lab Sample ID: 40157825001

Duplicate Sample No: 40157825001DUP

Date Analyzed: 03/30/2018

Lab File ID: 033018.B\033018034.D

SDG No.: 40151613

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)	272	344	23	0-40
PCB-1254 (Aroclor 1254)	114	147	25	0-40
PCB-1260 (Aroclor 1260)	20.1J	26.4J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/28/2018

Instrument 40GCSJ

Lab Sample ID: FD1-170613-01-SMB-03

Duplicate Sample No: 40151613001DUP

Date Analyzed: 03/30/2018

Lab File ID: 033018.B\033018018.D

SDG No.: 40151613

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)	11.8J	11.4J		0-40
PCB-1254 (Aroclor 1254)	16.9J	16.6J		0-40
PCB-1260 (Aroclor 1260)	39.1J	36.6J		0-40

RPD: ____ out of __0__ outside limits.

SAMPLE NO.

1659195BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151613 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1659195

Lab File ID: 031618.B\031618006.D Date Analyzed: 03/16/2018 Time:14:57

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1659196LCS	1659196	031618.B\031618007.D	03/16/2018 15:13
1659198DUP	1659198	031618.B\031618010.D	03/16/2018 16:00
1659199DUP	1659199	031618.B\031618021.D	03/16/2018 18:55
FD1-170613-01-LMB-11	40151613003	031618.B\031618022.D	03/16/2018 19:11
FD1-170613-01-LMB-10	40151613004	031618.B\031618023.D	03/16/2018 19:26
1659200DUP	1659200	031618.B\031618024.D	03/16/2018 19:42
FD1-170613-01-LMB-09	40151613005	031618.B\031618025.D	03/16/2018 19:58
FD1-170613-01-LMB-08	40151613006	031618.B\031618026.D	03/16/2018 20:14
FD1-170613-01-LMB-07	40151613007	031618.B\031618027.D	03/16/2018 20:30
FD1-170613-01-LMB-06	40151613008	031618.B\031618030.D	03/16/2018 21:17
FD1-170613-01-LMB-05	40151613009	031618.B\031618031.D	03/16/2018 21:33
FD1-170613-01-LMB-04	40151613010	031618.B\031618032.D	03/16/2018 21:49
FD1-170613-01-LMB-03	40151613011	031618.B\031618033.D	03/16/2018 22:04

SAMPLE NO.

1662965BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151613 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1662965

Lab File ID: 032718.B\032718010.D Date Analyzed: 03/27/2018 Time:15:30

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1662966LCS	1662966	032718.B\032718011.D	03/27/2018 15:46
FD1-170613-01-LMB-02	40151613012	032718.B\032718013.D	03/27/2018 16:17
1662967DUP	1662967	032718.B\032718014.D	03/27/2018 16:33
FD1-170613-01-LMB-01	40151613013	032718.B\032718015.D	03/27/2018 16:49
1662969DUP	1662969	032818.B\032818011.D	03/28/2018 15:59

SAMPLE NO.

1664793BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40151613 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1664793

Lab File ID: 033018.B\033018010.D Date Analyzed: 03/30/2018 Time:17:22

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1664794LCS	1664794	033018.B\033018011.D	03/30/2018 17:38
1664795MS	1664795	033018.B\033018012.D	03/30/2018 17:54
FD1-170613-01-SMB-03	40151613001	033018.B\033018015.D	03/30/2018 18:41
1664796DUP	1664796	033018.B\033018018.D	03/30/2018 19:29
FD1-170613-01-SMB-02	40151613002	033018.B\033018019.D	03/30/2018 19:45
FD1-170613-01-SMB-01	40151613014	033018.B\033018023.D	03/30/2018 20:48
1664809DUP	1664809	033018.B\033018034.D	03/30/2018 23:43

SAMPLE NO.

FD1-170613-01-SMB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151613
Date Extracted: 03/28/2018 08:09
Lab Sample ID: 40151613001
Date Analyzed: 03/30/2018 18:41
Lab File ID: 033018.B\033018015.D
Initial wt/vol: 9.9785 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)	11.8	J
11097-69-1	PCB-1254 (Aroclor 1254)	16.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	39.1	J
1336-36-3	PCB, Total	67.8	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018015.D
Lab Smp Id: 40151613001 Client Smp ID: FD1-170613-01-SMB-0
Inj Date : 30-MAR-2018 18:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613001,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.979	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.539	14815	9791	0.661	0.04		
2.201	42573	25233	0.593	0.13		
2.293	16012	14518	0.907	0.05		
2.404	11361	7485	0.659	0.03	1 Aroclor 1221	
2.485	10127240	9558957	0.944	33.41	$ 2 Tetrachloro-m-xylene	
2.785	22881	18764	0.820	0.07	1 Aroclor 1221	
2.858	18009	14208	0.789	0.05	1 Aroclor 1221	
2.976	31014	19061	0.615	0.10		
3.019	17537	13321	0.760	0.05		
4.217	36703	32505	0.886	0.11		
4.239	31444	30430	0.968	0.10		
4.262	33995	33954	0.999	0.11	6 Aroclor 1248	CO
4.292	42010	27165	0.647	0.13		
4.419	28654	22688	0.792	0.09		
4.452	24644	18168	0.737	0.08		
4.506	26494	18101	0.683	0.08		
4.546	56156	41476	0.739	0.18	6 Aroclor 1248	CO
4.769	50874	31984	0.629	0.16		
4.813	74810	63450	0.848	0.24	6 Aroclor 1248	CO
4.847	51281	46606	0.909	0.16		
4.880	177279	104550	0.590	0.57	6 Aroclor 1248	CO
4.958	35196	18726	0.532	0.11		
5.039	63258	54403	0.860	0.20	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.054	16712	14384	0.861	0.05	
5.100	73136	51863	0.709	0.23	
5.163	218151	191657	0.879	0.71	7 Aroclor 1254
5.212	169314	148236	0.876	0.55	
5.278	22696	19195	0.846	0.07	
5.313	80001	72144	0.902	0.26	
5.362	76621	54419	0.710	0.24	
5.406	121542	103548	0.852	0.39	7 Aroclor 1254
5.452	753756	710788	0.943	2.45	
5.511	179477	153980	0.858	0.58	7 Aroclor 1254
5.572	22053	16968	0.769	0.07	
5.604	36465	23592	0.647	0.11	
5.674	111046	101458	0.914	0.36	
5.714	129516	43870	0.339	0.42	
5.790	569831	457058	0.802	1.85	
5.821	32596	39133	1.201	0.10	
5.933	30946	22257	0.719	0.10	
5.993	143556	133927	0.933	0.46	
6.026	202523	177599	0.877	0.65	7 Aroclor 1254
6.055	789476	694075	0.879	2.57	
6.168	236894	170990	0.722	0.77	
6.227	39346	49191	1.250	0.12	
6.243	96527	64979	0.673	0.31	
6.299	819217	692909	0.846	2.66	8 Aroclor 1260
6.332	103943	86948	0.836	0.33	
6.375	34364	29743	0.866	0.11	
6.432	109028	84041	0.771	0.35	
6.510	562386	509929	0.907	1.83	
6.534	125180	131563	1.051	0.40	
6.560	184365	162314	0.880	0.60	
6.605	22948	24883	1.084	0.07	
6.659	51919	52448	1.010	0.16	
6.718	267095	239629	0.897	0.87	
6.757	201063	175327	0.872	0.65	
6.801	139321	126056	0.905	0.45	
6.838	70572	56575	0.802	0.22	
6.914	22241	23367	1.051	0.07	
6.942	319779	300655	0.940	1.04	
7.003	891438	829078	0.930	2.90	8 Aroclor 1260
7.033	56681	63387	1.118	0.18	
7.101	13634	17587	1.290	0.04	
7.122	24415	19707	0.807	0.07	
7.251	250207	223968	0.895	0.81	8 Aroclor 1260
7.280	104483	80640	0.772	0.34	
7.334	13847	11635	0.840	0.04	
7.371	11553	18006	1.559	0.03	
7.389	255681	230188	0.900	0.83	
7.442	230894	205776	0.891	0.75	8 Aroclor 1260
7.551	9593	10554	1.100	0.03	
7.580	13598	12011	0.883	0.04	
7.690	78028	69471	0.890	0.25	
7.727	50489	44868	0.889	0.16	
7.765	23313	18967	0.814	0.07	
7.812	119495	97033	0.812	0.38	
7.861	11339	11809	1.041	0.03	
7.900	204644	177945	0.870	0.66	8 Aroclor 1260
7.954	44593	28768	0.645	0.14	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.049	268774	239271	0.890	0.87	
8.274	117686	107106	0.910	0.38	
8.375	29744	20964	0.705	0.09	
8.479	9383	8749	0.932	0.03	
8.570	9339071	7791671	0.834	30.41	$ 12 Decachlorobiphenyl
8.724	50058	42627	0.852	0.16	
9.054	42877	33699	0.786	0.13	
9.168	215144	186142	0.865	0.70	
	30700511	27038869		100.000	

Total unknown % area = 25

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018015.D
Lab Smp Id: 40151613001 Client Smp ID: FD1-170613-01-SMB-0
Inj Date : 30-MAR-2018 18:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613001,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.979	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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.485	2.484	0.001	10127240	0.08214	41			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	33994	0.01451	7.3	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	56156	0.01353	6.8	0.00- 20.00	165.19	CO
4.812	4.812	0.000	74810	0.03685	18	0.00- 20.00	220.07	CO
4.880	4.879	0.001	177279	0.03519	18	0.00- 20.00	521.50	CO
5.038	5.038	0.000	63257	0.01763	8.8	0.00- 20.00	186.08	CO
Average of Peak Concentrations =					12			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	218151	0.04167	21	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	121541	0.02826	14	0.00- 20.00	55.71	BA
5.510	5.510	0.000	179476	0.02311	12	0.00- 20.00	82.27	BA
6.025	6.027	-0.002	202523	0.04159	21	0.00- 20.00	92.84	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					17			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	819216	0.09244	46	0.00- 20.00	100.00(M)	CO
7.002	7.006	-0.004	891437	0.08902	45	0.00- 20.00	108.82	CO
7.250	7.251	-0.001	250207	0.05235	26	0.00- 20.00	30.54	CO
7.441	7.443	-0.002	230894	0.07921	40	0.00- 20.00	28.18	CO
7.899	7.901	-0.002	204644	0.07755	39	0.00- 20.00	24.98	CO
Average of Peak Concentrations =					39			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9339071	0.08524	43			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018015.D

Date : 30-MAR-2018 18:41

Client ID: FD1-170613-01-SMB-0

Instrument: 40GCSJ.i

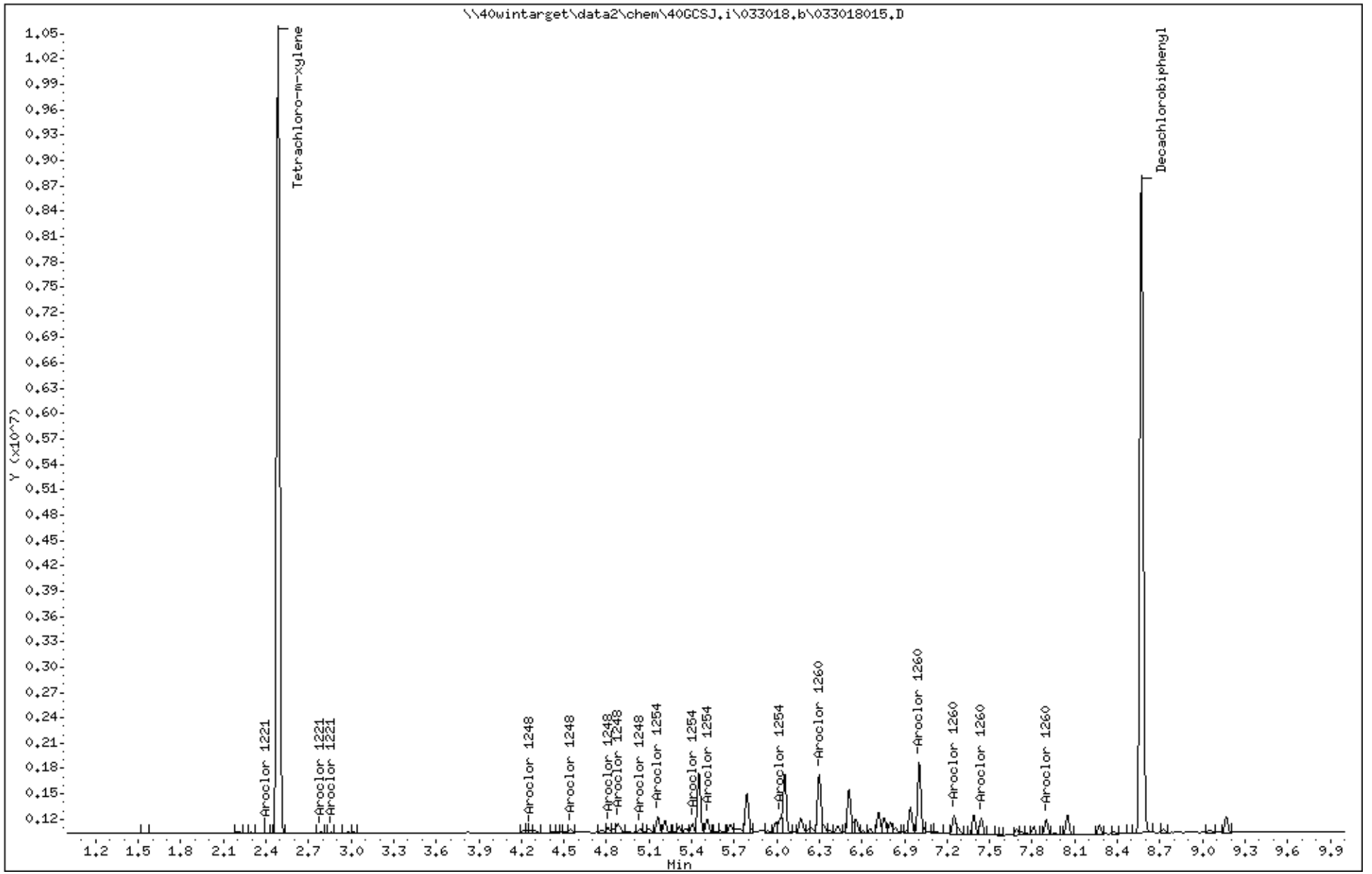
Sample Info: 40151613001,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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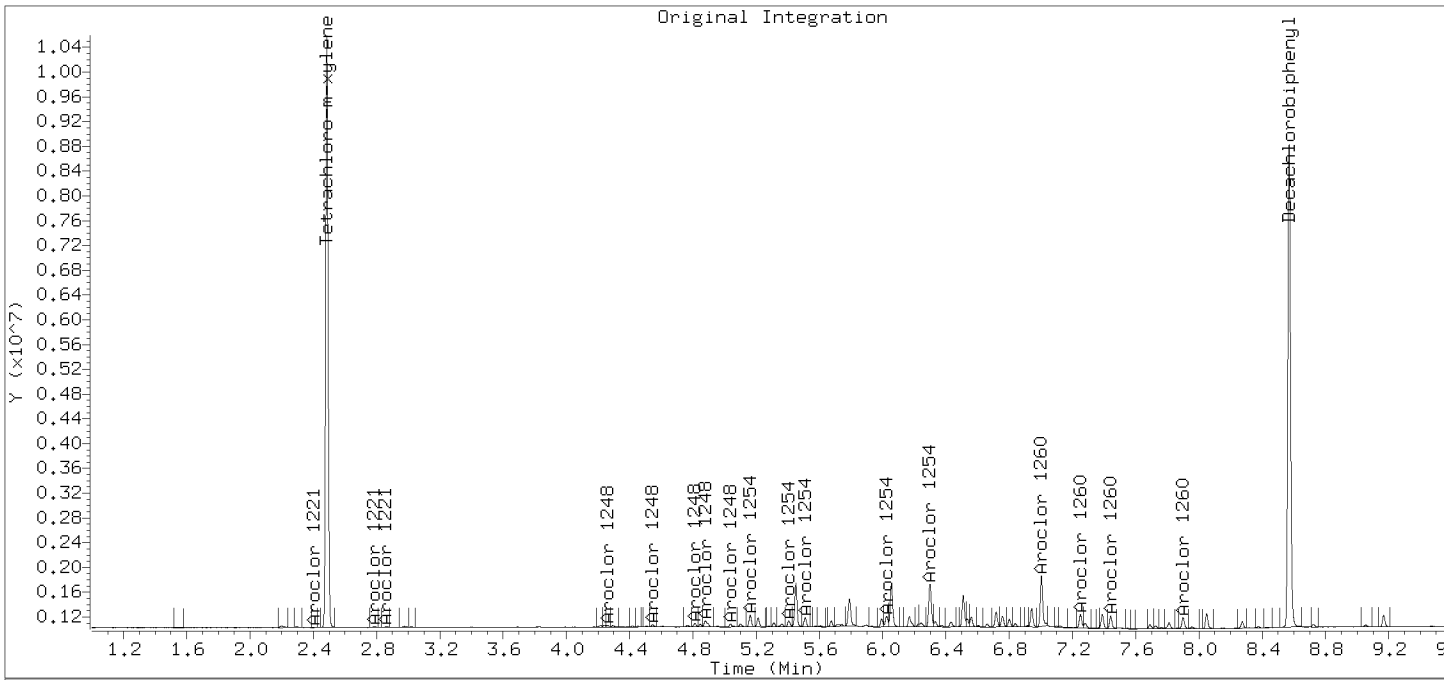
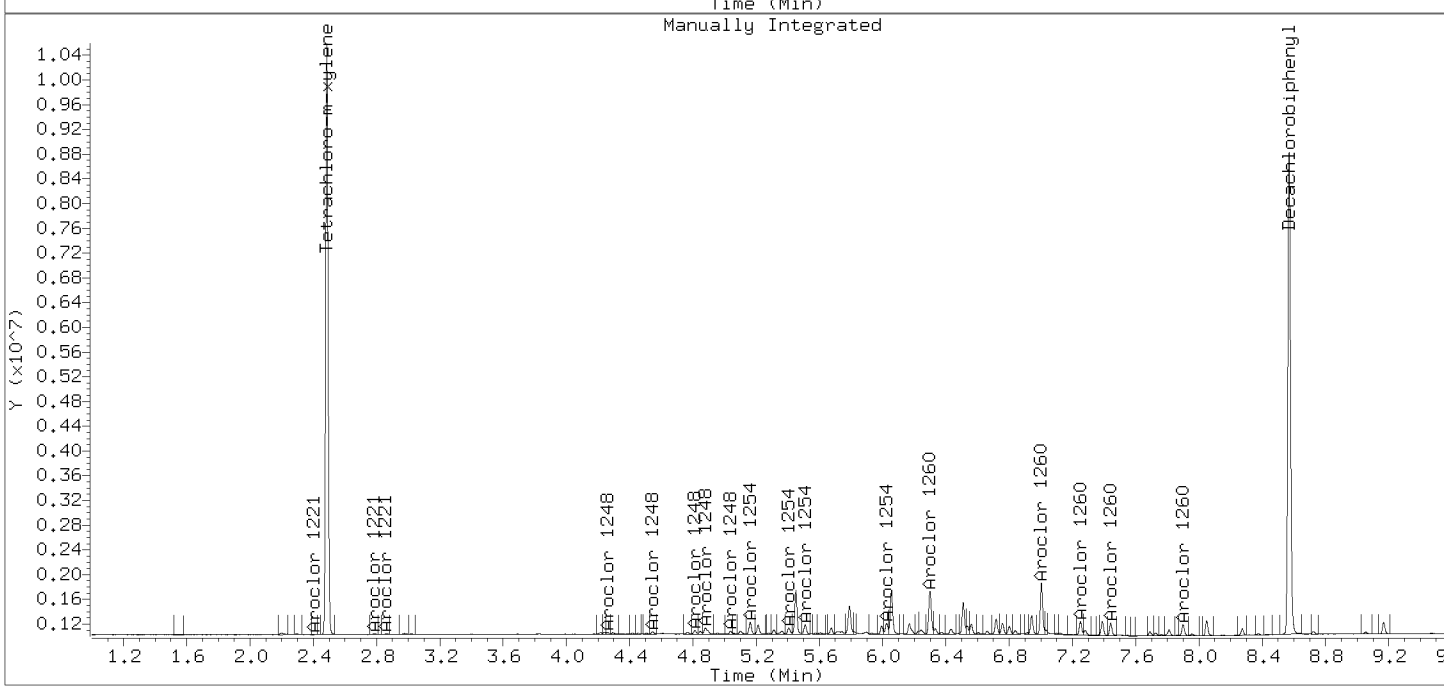
Injection Date: 30-MAR-2018 18:41 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613001





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	33994	CO
Aroclor 1248	0	33994	CO
Aroclor 1248	0	33994	CO
Aroclor 1248	0	33994	CO
Aroclor 1248	0	33994	CO
Aroclor 1254	203106	218151	BA
Aroclor 1254	203106	218151	BA
Aroclor 1254	203106	218151	BA
Aroclor 1254	203106	218151	BA
Aroclor 1254	203106	218151	BA
Aroclor 1260	811026	819216	CO
Aroclor 1260	811026	819216	CO
Aroclor 1260	811026	819216	CO
Aroclor 1260	811026	819216	CO
Aroclor 1260	811026	819216	CO
Tetrachloro-m-xylene	10127240	10127240	
Decachlorobiphenyl	9339071	9339071	

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SAMPLE NO.

FD1-170613-01-SMB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151613
Date Extracted: 03/28/2018 08:09
Lab Sample ID: 40151613002
Date Analyzed: 03/30/2018 19:45
Lab File ID: 033018.B\033018019.D
Initial wt/vol: 9.9976 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)	54.5	
11097-69-1	PCB-1254 (Aroclor 1254)	39.6	J
11096-82-5	PCB-1260 (Aroclor 1260)	29.9	J
1336-36-3	PCB, Total	124	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018019.D
Lab Smp Id: 40151613002 Client Smp ID: FD1-170613-01-SMB-0
Inj Date : 30-MAR-2018 19:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613002,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
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	9.998	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	12202	8633	0.707	0.03		
1.430	11873	8500	0.716	0.03		
1.534	10870	7559	0.695	0.03		
2.200	35176	23696	0.674	0.10		
2.291	40677	30392	0.747	0.11		
2.485	9810535	9421345	0.960	28.54	$ 2 Tetrachloro-m-xylene	
2.788	16744	15290	0.913	0.04		
2.860	25563	15844	0.620	0.07		
2.976	34089	23227	0.681	0.09		
3.021	19911	18171	0.913	0.05		
3.404	14651	12452	0.850	0.04		
3.829	64423	43302	0.672	0.18		
3.992	20735	16543	0.798	0.05		
4.052	22636	16244	0.718	0.06		
4.215	148941	128745	0.864	0.42		
4.240	48963	52101	1.064	0.13		
4.262	173121	157059	0.907	0.49	6 Aroclor 1248	CO
4.292	180596	113791	0.630	0.51		
4.417	119515	97710	0.818	0.34		
4.454	107717	82665	0.767	0.30		
4.502	50492	24995	0.495	0.14		
4.546	229510	186365	0.812	0.65	6 Aroclor 1248	CO
4.590	40107	29303	0.731	0.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.616	54467	32500	0.597	0.15	
4.646	30784	19055	0.619	0.08	
4.679	27861	19660	0.706	0.07	
4.726	40247	22436	0.557	0.11	
4.767	121571	89472	0.736	0.34	
4.812	336189	305914	0.910	0.96	6 Aroclor 1248
4.847	189986	166357	0.876	0.54	
4.878	789039	598737	0.759	2.25	6 Aroclor 1248
4.955	90482	64487	0.713	0.25	
5.037	335138	296925	0.886	0.95	6 Aroclor 1248
5.059	34434	34554	1.003	0.09	
5.101	176037	123988	0.704	0.50	
5.161	462736	400204	0.865	1.32	7 Aroclor 1254
5.212	421706	365765	0.867	1.20	
5.281	53905	40188	0.746	0.15	
5.311	101147	85656	0.847	0.28	
5.363	203442	144817	0.712	0.58	
5.407	295238	258347	0.875	0.84	7 Aroclor 1254
5.451	1174915	1046981	0.891	3.35	
5.509	504918	419390	0.831	1.44	7 Aroclor 1254
5.576	38594	28085	0.728	0.11	
5.604	100443	79537	0.792	0.28	
5.674	136205	113000	0.830	0.38	
5.712	75913	57123	0.752	0.21	
5.740	145788	98623	0.676	0.41	
5.791	960240	774873	0.807	2.74	
5.816	86809	64469	0.743	0.24	
5.887	98831	55436	0.561	0.28	
5.929	36851	30567	0.829	0.10	
5.994	167492	157502	0.940	0.47	
6.024	462250	415290	0.898	1.32	7 Aroclor 1254
6.055	786929	685398	0.871	2.24	
6.119	23397	16332	0.698	0.06	
6.168	213549	130599	0.612	0.60	
6.229	45958	55967	1.218	0.13	
6.242	105064	76765	0.731	0.30	
6.299	875155	733173	0.838	2.49	8 Aroclor 1260
6.333	106158	97457	0.918	0.30	
6.372	43757	33548	0.767	0.12	
6.434	91328	60324	0.661	0.26	
6.509	365507	339770	0.930	1.04	
6.535	164223	162934	0.992	0.46	
6.559	153543	133779	0.871	0.43	
6.603	31360	27853	0.888	0.08	
6.659	42144	33606	0.797	0.12	
6.718	151961	137898	0.907	0.43	
6.756	174141	142766	0.820	0.49	
6.801	146105	133014	0.910	0.41	
6.840	52292	40161	0.768	0.14	
6.941	301042	281083	0.934	0.85	
7.004	516158	482638	0.935	1.47	8 Aroclor 1260
7.035	35812	39506	1.103	0.10	
7.099	37257	22183	0.595	0.10	
7.250	215403	190415	0.884	0.61	8 Aroclor 1260
7.281	88829	65015	0.732	0.25	
7.388	149249	131711	0.882	0.42	
7.441	169383	146842	0.867	0.48	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.578	13004	10475	0.806	0.03	
7.691	55025	49759	0.904	0.15	
7.728	53101	44075	0.830	0.15	
7.762	30586	25685	0.840	0.08	
7.812	120648	92576	0.767	0.34	
7.863	18156	14032	0.773	0.05	
7.900	120573	103755	0.861	0.34	8 Aroclor 1260
7.952	63842	45830	0.718	0.18	
8.049	171386	149097	0.870	0.48	
8.273	117790	108338	0.920	0.33	
8.311	9795	7803	0.797	0.02	
8.375	65229	52765	0.809	0.18	
8.447	13814	9143	0.662	0.03	
8.479	24569	19475	0.793	0.07	
8.570	9535431	8057569	0.845	27.23	$ 12 Decachlorobiphenyl
8.639	23821	20248	0.850	0.06	
8.723	46006	36335	0.790	0.13	
9.055	28902	21666	0.750	0.08	
9.167	403578	343271	0.851	1.15	
9.568	15939	8328	0.522	0.04	
	35009606	30564832		100.000	

Total unknown % area = 29

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018019.D
Lab Smp Id: 40151613002 Client Smp ID: FD1-170613-01-SMB-0
Inj Date : 30-MAR-2018 19:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613002,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
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	9.998	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	9810535	0.07957	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			
4.261	4.261	0.000	173121	0.07389	37	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	229510	0.05530	28	0.00- 20.00	132.57	CO
4.812	4.812	0.000	336188	0.16560	83	0.00- 20.00	194.19	CO
4.877	4.879	-0.002	789038	0.15663	78	0.00- 20.00	455.77	CO
5.036	5.038	-0.002	335137	0.09339	47	0.00- 20.00	193.59	CO
Average of Peak Concentrations =					54			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	462735	0.08839	44	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	295238	0.06864	34	0.00- 20.00	63.80	BA
5.509	5.510	-0.001	504917	0.06502	32	0.00- 20.00	109.12	BA
6.024	6.027	-0.003	462250	0.09492	47	0.00- 20.00	99.90	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					40			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	875154	0.09875	49	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	516158	0.05154	26	0.00- 20.00	58.98	CO
7.249	7.251	-0.002	215402	0.04507	22	0.00- 20.00	24.61	CO
7.440	7.443	-0.003	169383	0.05811	29	0.00- 20.00	19.35	CO
7.899	7.901	-0.002	120572	0.04569	23	0.00- 20.00	13.78	CO
Average of Peak Concentrations =					30			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9535430	0.08703	44			

QC Flag Legend

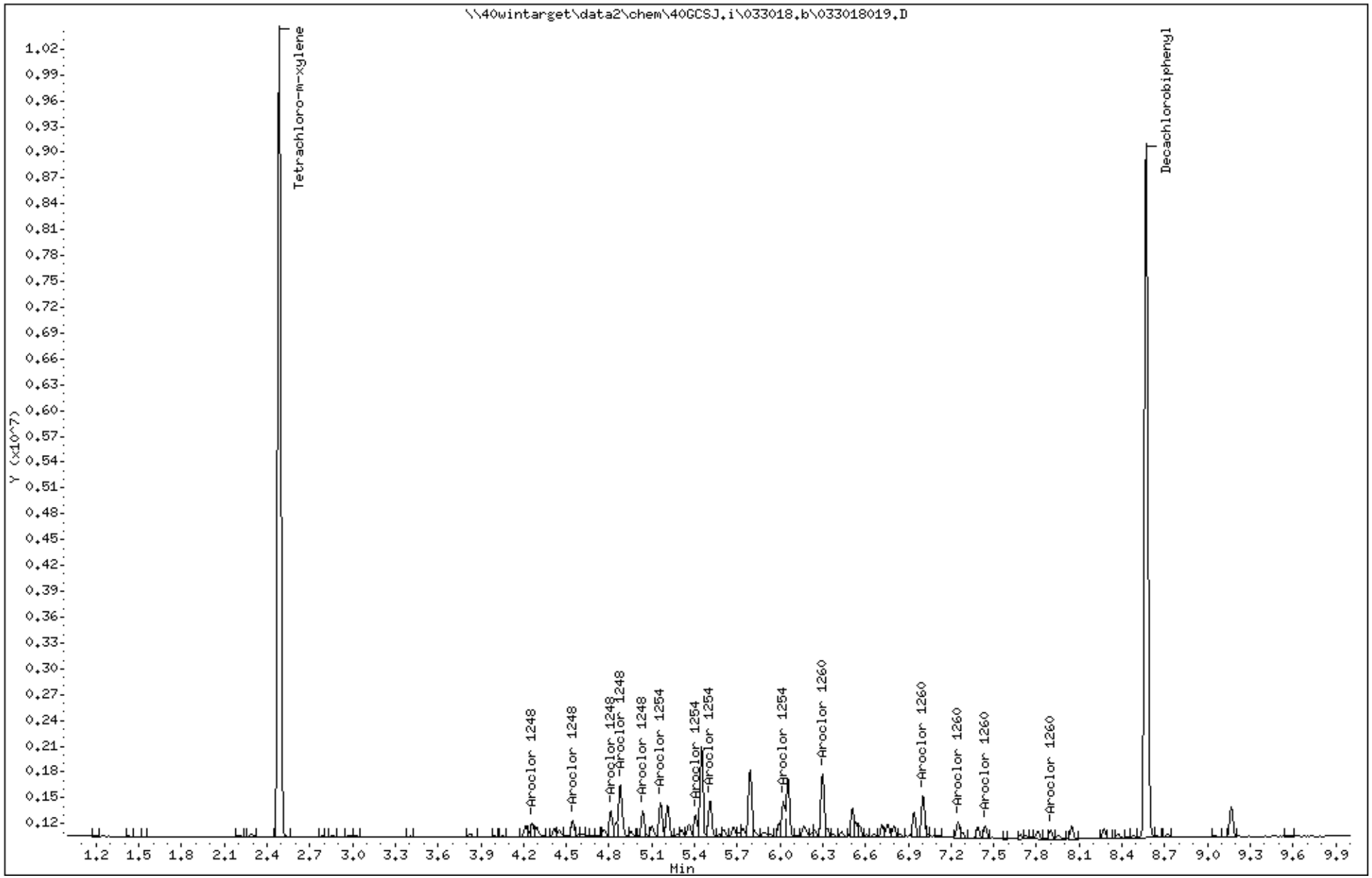
M - Compound response manually integrated.

Review Codes Legend

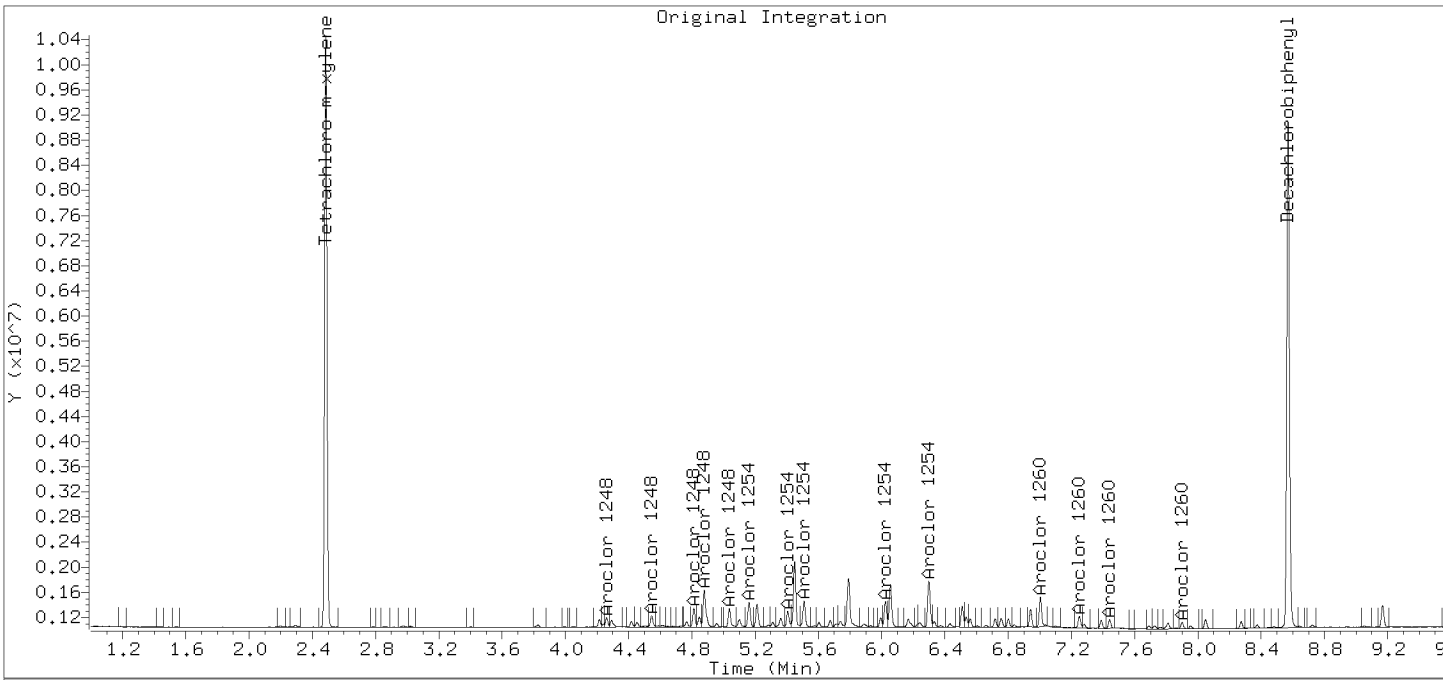
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

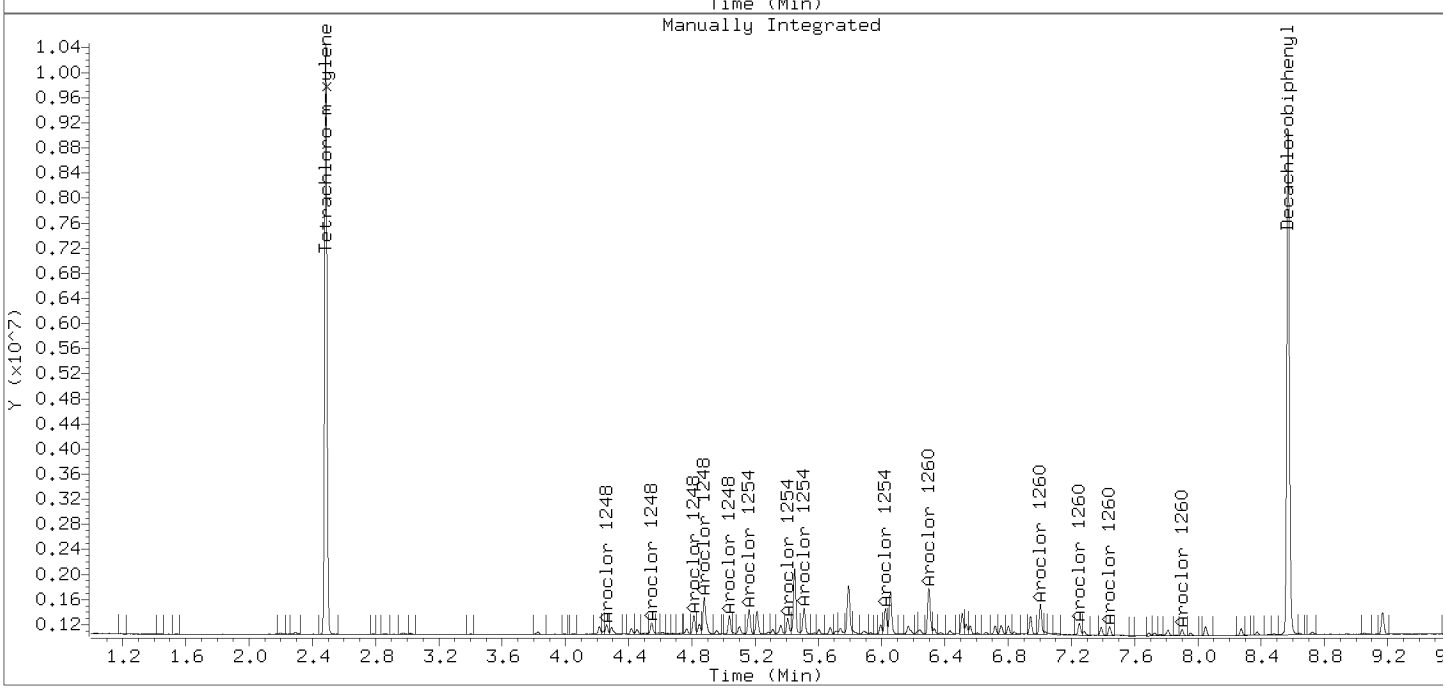
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018019.D
Date : 30-MAR-2018 19:45
Client ID: FD1-170613-01-SMB-0
Sample Info: 40151613002,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 19:45 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613002





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	160587	173121	CO
Aroclor 1248	160587	173121	CO
Aroclor 1248	160587	173121	CO
Aroclor 1248	160587	173121	CO
Aroclor 1248	160587	173121	CO
Aroclor 1254	441953	462735	BA
Aroclor 1254	441953	462735	BA
Aroclor 1254	441953	462735	BA
Aroclor 1254	441953	462735	BA
Aroclor 1254	441953	462735	BA
Aroclor 1260	861230	875154	CO
Aroclor 1260	861230	875154	CO
Aroclor 1260	861230	875154	CO
Aroclor 1260	861230	875154	CO
Aroclor 1260	861230	875154	CO
Tetrachloro-m-xylene	9810535	9810535	
Decachlorobiphenyl	9535430	9535430	

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SAMPLE NO.

FD1-170613-01-LMB-11

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151613
Date Extracted: 03/15/2018 07:20
Lab Sample ID: 40151613003
Date Analyzed: 03/16/2018 19:11
Lab File ID: 031618.B\031618022.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)	<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
1336-36-3	PCB, Total	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618022.D
Lab Smp Id: 40151613003 Client Smp ID: FD1-170613-01-LMB-1
Inj Date : 16-MAR-2018 19:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613003,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
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
1.156	15116	12595	0.833	0.05		
1.181	16918	13253	0.783	0.06		
1.424	10233	7670	0.750	0.03		
1.539	10893	9740	0.894	0.04		
2.012	12794	9252	0.723	0.04		
2.407	15232	13091	0.859	0.05	1 Aroclor 1221	
2.484	11382135	10947828	0.962	43.99	$ 2 Tetrachloro-m-xylene	
2.784	18115	17480	0.965	0.06	1 Aroclor 1221	
2.853	11853	9991	0.843	0.04	1 Aroclor 1221	
2.975	24239	14004	0.578	0.09		
3.401	14636	12604	0.861	0.05		
3.492	9527	6160	0.647	0.03		
3.828	23679	18051	0.762	0.09		
4.052	18986	17264	0.909	0.07		
4.214	30501	30188	0.990	0.11		
4.241	30812	28177	0.914	0.11		
4.260	29250	28071	0.960	0.11	6 Aroclor 1248	BA
4.292	33954	21570	0.635	0.13		
4.413	27208	20365	0.748	0.10		
4.452	22351	14789	0.662	0.08		
4.546	41388	33175	0.802	0.15	6 Aroclor 1248	BA
4.767	47971	37542	0.783	0.18		
4.812	71634	60865	0.850	0.27	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.846	37478	33869	0.904	0.14	
4.879	118022	87418	0.741	0.45	6 Aroclor 1248
4.951	14938	10123	0.678	0.05	
5.037	58095	51736	0.891	0.22	6 Aroclor 1248
5.098	47264	29041	0.614	0.18	
5.163	79457	67858	0.854	0.30	7 Aroclor 1254
5.213	76206	63925	0.839	0.29	
5.310	43939	35800	0.815	0.16	
5.346	47684	25761	0.540	0.18	
5.386	13892	15407	1.109	0.05	
5.406	43623	38263	0.877	0.16	7 Aroclor 1254
5.451	345379	324624	0.940	1.32	
5.509	91076	73636	0.809	0.34	7 Aroclor 1254
5.604	20561	15425	0.750	0.07	
5.673	37595	28395	0.755	0.14	
5.709	18904	15698	0.830	0.07	
5.739	26100	21775	0.834	0.09	
5.790	183825	146292	0.796	0.70	
5.821	23489	29875	1.272	0.08	
5.838	51157	40403	0.790	0.19	
5.895	27290	17518	0.642	0.10	
5.992	44024	41383	0.940	0.16	
6.025	73176	66024	0.902	0.28	7 Aroclor 1254
6.055	184715	165061	0.894	0.70	
6.168	52442	31079	0.593	0.20	
6.242	32146	18970	0.590	0.12	
6.299	215324	181034	0.841	0.82	8 Aroclor 1260
6.333	33045	24206	0.733	0.12	
6.433	35020	18165	0.519	0.13	
6.510	146273	94224	0.644	0.56	
6.558	40347	32784	0.813	0.15	
6.659	12179	10362	0.851	0.04	
6.717	42571	33545	0.788	0.16	
6.758	39105	31749	0.812	0.14	
6.800	48356	35696	0.738	0.18	
6.837	29853	17567	0.588	0.11	
6.942	64107	48944	0.763	0.24	
7.004	139695	123343	0.883	0.53	8 Aroclor 1260
7.090	19274	13743	0.713	0.07	
7.248	69584	55359	0.796	0.26	8 Aroclor 1260
7.281	42961	27672	0.644	0.16	
7.338	15901	13038	0.820	0.06	
7.389	42286	38249	0.905	0.16	
7.443	72877	49155	0.674	0.27	8 Aroclor 1260
7.583	13866	12489	0.901	0.05	
7.693	27665	22500	0.813	0.10	
7.727	60343	43859	0.727	0.23	
7.763	29343	18777	0.640	0.11	
7.804	45887	22493	0.490	0.17	
7.900	49706	34450	0.693	0.19	8 Aroclor 1260
7.955	17034	16173	0.949	0.06	
8.047	26703	22181	0.831	0.10	
8.273	99984	87643	0.877	0.38	
8.377	31506	23680	0.752	0.12	
8.476	9805	7924	0.808	0.03	
8.570	10702437	9494804	0.887	40.99	$ 12 Decachlorobiphenyl
8.721	12729	10957	0.861	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.167	158897	136815	0.861	0.60	
	26106565	23682664		100.000	

Total unknown % area = 10

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618022.D
Lab Smp Id: 40151613003 Client Smp ID: FD1-170613-01-LMB-1
Inj Date : 16-MAR-2018 19:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613003,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
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

Compound Not Detected.

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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.483	2.484	-0.001	11382134	0.09232	46			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
Qualifier signal(s) failed ratio test.								BA
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								BA
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10702436	0.09769	49			

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618022.D

Date : 16-MAR-2018 19:11

Client ID: FD1-170613-01-LMB-1

Instrument: 40GCSJ.i

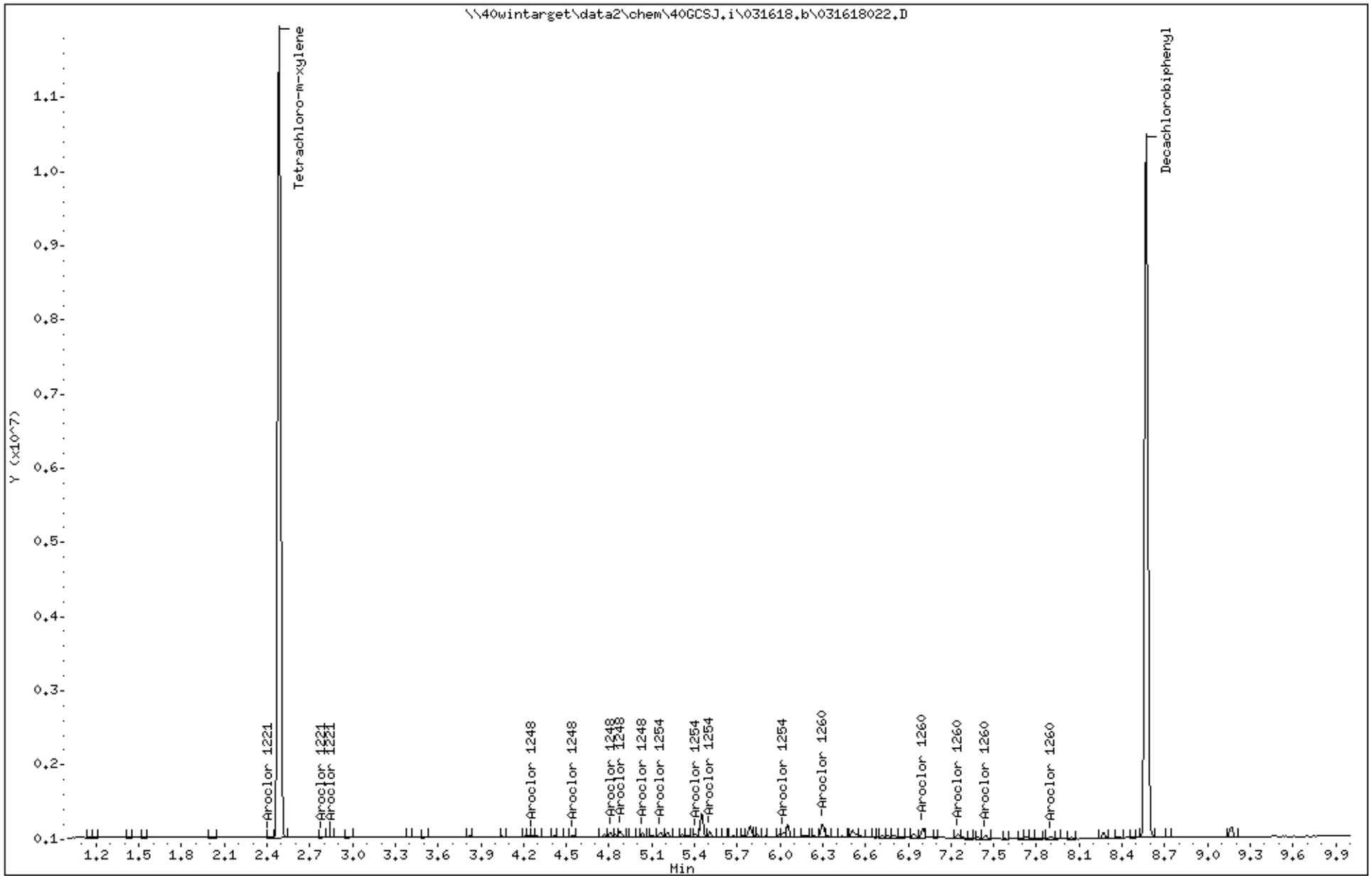
Sample Info: 40151613003,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 16-MAR-2018 19:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613003

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	BA
Aroclor 1248	0	0	BA
Aroclor 1248	0	0	BA
Aroclor 1248	0	0	BA
Aroclor 1248	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Tetrachloro-m-xylene	11382134	11382134	
Decachlorobiphenyl	10702436	10702436	

SAMPLE NO.

FD1-170613-01-LMB-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151613
Date Extracted: 03/15/2018 07:20
Lab Sample ID: 40151613004
Date Analyzed: 03/16/2018 19:26
Lab File ID: 031618.B\031618023.D
Initial wt/vol: 10.0098 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)	35.9	J
11097-69-1	PCB-1254 (Aroclor 1254)	32.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	44.2	J
1336-36-3	PCB, Total	113	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618023.D
Lab Smp Id: 40151613004 Client Smp ID: FD1-170613-01-LMB-1
Inj Date : 16-MAR-2018 19:26
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613004,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 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	10.010	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.101	10372	7847	0.757	0.02		
1.158	42982	36034	0.838	0.10		
1.254	10893	6827	0.627	0.02		
1.430	11963	11336	0.948	0.02		
1.773	16438	12587	0.766	0.03		
1.952	11840	9459	0.799	0.02		
2.410	62173	62759	1.009	0.15		
2.485	11785217	11553371	0.980	29.16	$ 2 Tetrachloro-m-xylene	
2.785	24353	19045	0.782	0.05		
2.859	29040	18987	0.654	0.07	4 Aroclor 1232	BA
2.973	91617	57178	0.624	0.22		
3.017	16899	16934	1.002	0.04		
3.401	20489	17151	0.837	0.04		
3.516	14414	10458	0.726	0.03	4 Aroclor 1232	BA
3.694	17075	15126	0.886	0.04		
3.729	9239	8560	0.927	0.02		
3.827	131974	88982	0.674	0.32	4 Aroclor 1232	BA
3.928	17406	13975	0.803	0.04	4 Aroclor 1232	BA
3.995	33698	28013	0.831	0.08	4 Aroclor 1232	BA
4.053	39215	21952	0.560	0.09		
4.215	162963	138549	0.850	0.39		
4.260	148527	139748	0.941	0.36	6 Aroclor 1248	CO
4.292	117419	83214	0.709	0.28		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.351	23383	12738	0.545	0.05	
4.416	111266	96023	0.863	0.27	
4.451	73982	61539	0.832	0.17	
4.506	18518	14645	0.791	0.04	
4.545	182574	162754	0.891	0.44	6 Aroclor 1248
4.586	15558	13072	0.840	0.03	
4.617	26652	21881	0.821	0.06	
4.737	33472	22497	0.672	0.08	
4.767	44075	35947	0.816	0.10	
4.813	207305	196218	0.947	0.50	6 Aroclor 1248
4.847	172941	167845	0.971	0.42	
4.877	483613	339855	0.703	1.17	6 Aroclor 1248
4.957	65000	42442	0.653	0.15	
5.005	17155	14490	0.845	0.04	
5.037	193138	190820	0.988	0.46	6 Aroclor 1248
5.052	40363	41641	1.032	0.09	
5.098	194349	152376	0.784	0.47	
5.162	404017	362701	0.898	0.98	7 Aroclor 1254
5.211	356122	316893	0.890	0.86	
5.281	50068	42804	0.855	0.12	
5.312	229424	216254	0.943	0.55	
5.362	133702	108846	0.814	0.32	
5.407	238845	212669	0.890	0.58	7 Aroclor 1254
5.451	2034473	1934508	0.951	4.94	
5.510	401994	339551	0.845	0.97	7 Aroclor 1254
5.567	35028	26325	0.752	0.08	
5.604	71844	50942	0.709	0.17	
5.675	183991	156790	0.852	0.44	
5.711	97864	65505	0.669	0.23	
5.741	140733	101035	0.718	0.34	
5.790	953658	792220	0.831	2.31	
5.821	184899	154374	0.835	0.44	
5.897	137686	74623	0.542	0.33	
5.932	53147	41162	0.774	0.12	
5.993	240039	224670	0.936	0.58	
6.023	386321	336776	0.872	0.93	7 Aroclor 1254
6.055	983375	864339	0.879	2.39	
6.169	269277	181208	0.673	0.65	
6.227	82485	84363	1.023	0.20	
6.242	131689	105424	0.801	0.32	
6.299	1279187	1100419	0.860	3.10	8 Aroclor 1260
6.334	146297	130894	0.895	0.35	
6.373	64706	47643	0.736	0.15	
6.431	136819	89743	0.656	0.33	
6.510	561966	512200	0.911	1.36	
6.533	245353	229775	0.937	0.59	
6.559	176406	161400	0.915	0.42	
6.603	82700	61927	0.749	0.20	
6.659	62579	48825	0.780	0.15	
6.717	193346	164236	0.849	0.46	
6.757	185821	156889	0.844	0.45	
6.801	243725	209576	0.860	0.59	
6.838	88544	65972	0.745	0.21	
6.912	23686	21612	0.912	0.05	
6.941	299626	276886	0.924	0.72	
7.004	718345	665771	0.927	1.74	8 Aroclor 1260
7.036	100112	66709	0.666	0.24	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.102	45941	30731	0.669	0.11	
7.249	319832	285677	0.893	0.77	8 Aroclor 1260
7.281	140813	103863	0.738	0.34	
7.339	28979	20818	0.718	0.07	
7.389	222158	197189	0.888	0.54	
7.442	254870	213016	0.836	0.61	8 Aroclor 1260
7.523	55976	23872	0.426	0.13	
7.580	13230	12341	0.933	0.03	
7.665	14195	16227	1.143	0.03	
7.691	77768	68713	0.884	0.18	
7.727	72996	56054	0.768	0.17	
7.763	51068	43848	0.859	0.12	
7.812	115568	77988	0.675	0.28	
7.858	19104	17574	0.920	0.04	
7.900	190925	166233	0.871	0.46	8 Aroclor 1260
7.954	96097	72828	0.758	0.23	
8.047	156840	138814	0.885	0.38	
8.273	157073	145225	0.925	0.38	
8.318	13176	12592	0.956	0.03	
8.376	82994	59645	0.719	0.20	
8.448	26452	23211	0.877	0.06	
8.481	24445	25275	1.034	0.05	
8.571	10967872	9417653	0.859	26.66	$ 12 Decachlorobiphenyl
8.639	34546	27642	0.800	0.08	
8.719	65494	43118	0.658	0.15	
9.053	32059	26359	0.822	0.07	
9.167	707990	634869	0.897	1.72	
9.570	11318	8314	0.735	0.02	
	41139227	36739023		100.000	

Total unknown % area = 30

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618023.D
Lab Smp Id: 40151613004 Client Smp ID: FD1-170613-01-LMB-1
Inj Date : 16-MAR-2018 19:26
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613004,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 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	10.010	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11785216	0.09559	48			
3 Aroclor 1242					CAS #: 53469-21-9			
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232					CAS #: 1114-16-5			
Qualifier signal(s) failed ratio test.								BA

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Compound Not Detected.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	148527	0.06339	32	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	182573	0.04399	22	0.00- 20.00	122.92	CO
4.812	4.812	0.000	207305	0.10212	51	0.00- 20.00	139.57	CO
4.877	4.879	-0.002	483613	0.09600	48	0.00- 20.00	325.61	CO
5.036	5.038	-0.002	193138	0.05382	27	0.00- 20.00	130.04	CO
		Average of Peak Concentrations =			36			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	404017	0.07717	38	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	238845	0.05553	28	0.00- 20.00	59.12	BA
5.509	5.510	-0.001	401993	0.05176	26	0.00- 20.00	99.50	BA
6.022	6.027	-0.005	386321	0.07933	40	0.00- 20.00	95.62	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			33			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	1279187	0.14434	72	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	718345	0.07173	36	0.00- 20.00	56.16	BA
7.249	7.251	-0.002	319832	0.06691	33	0.00- 20.00	25.00	BA
7.441	7.443	-0.002	254870	0.08743	44	0.00- 20.00	19.92	BA
7.900	7.901	-0.001	190924	0.07235	36	0.00- 20.00	14.93	BA
		Average of Peak Concentrations =			44			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10967872	0.10011	50			

QC Flag Legend

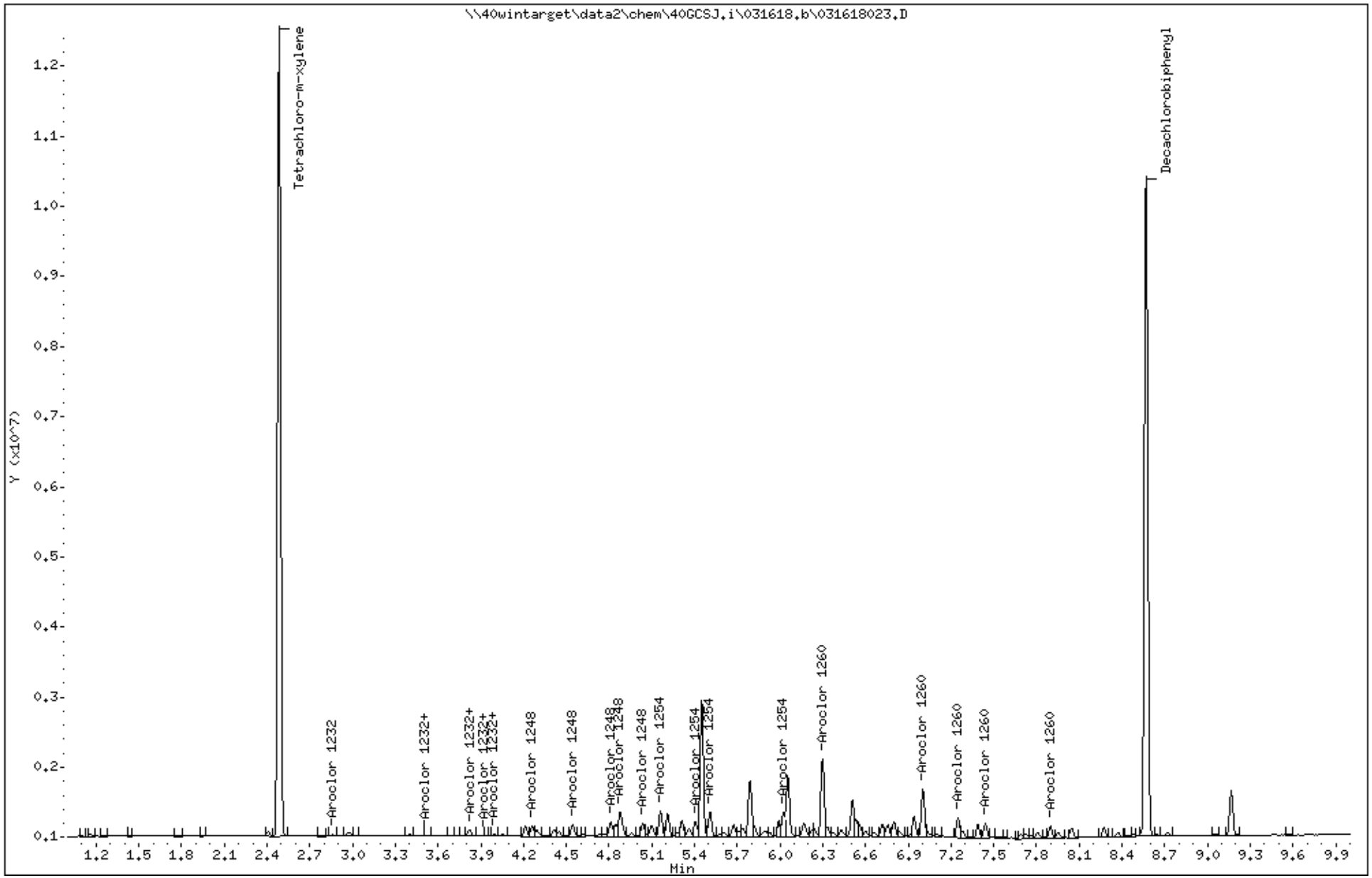
M - Compound response manually integrated.

Review Codes Legend

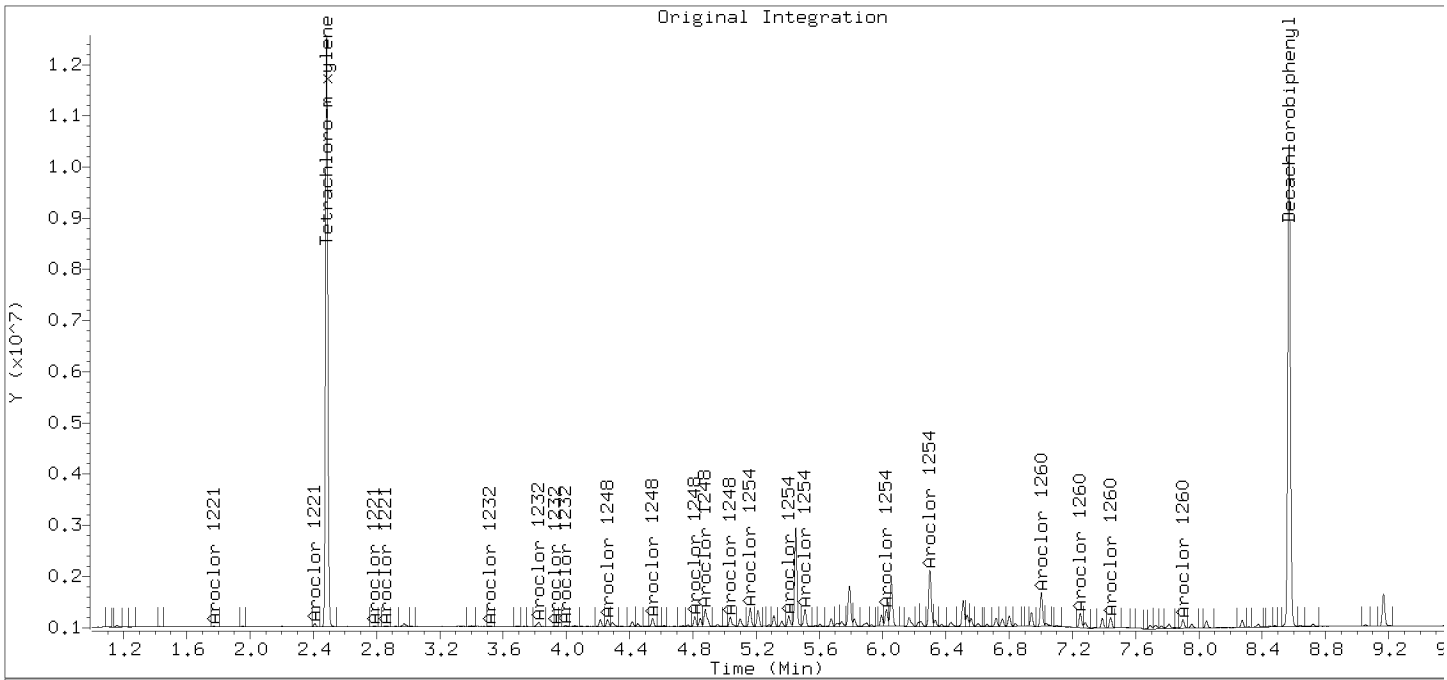
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

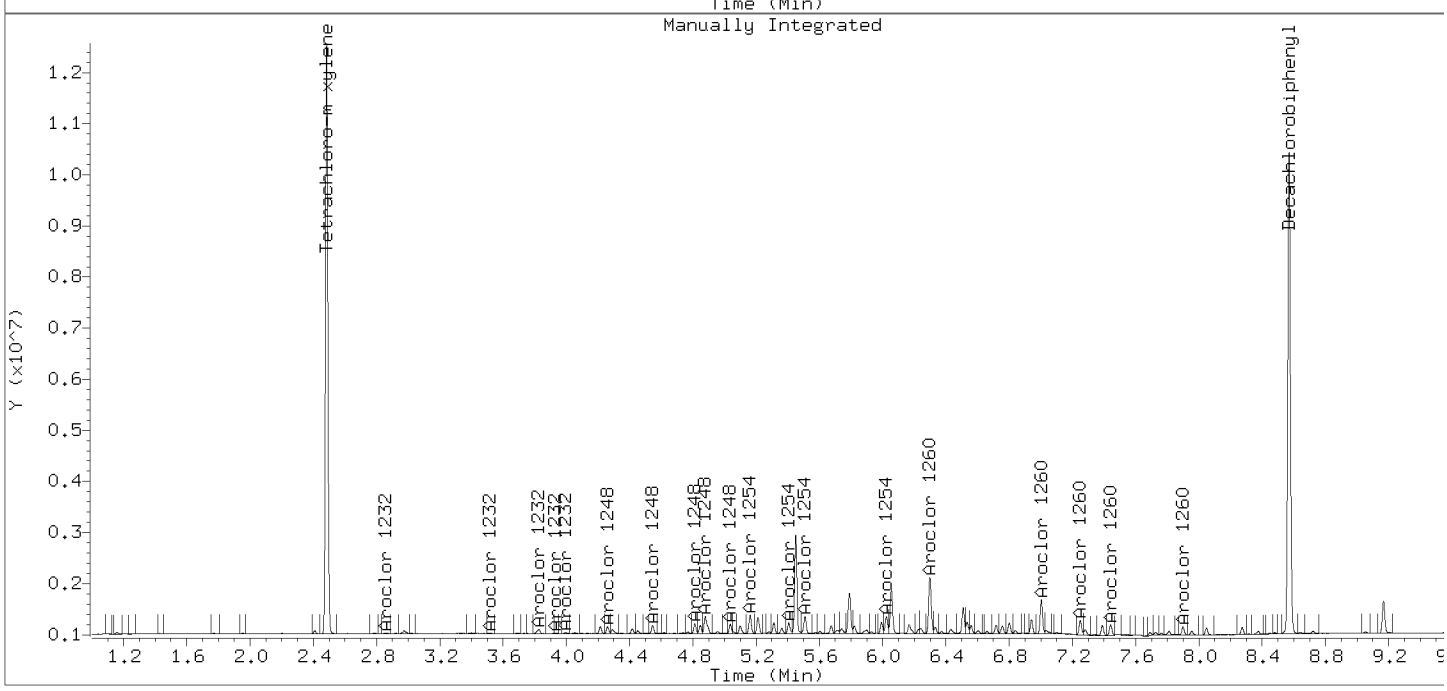
Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618023.D
Date : 16-MAR-2018 19:26
Client ID: FD1-170613-01-LMB-1
Sample Info: 40151613004,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 16-MAR-2018 19:26 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613004





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	16438	0	
Aroclor 1221	16438	0	
Aroclor 1221	16438	0	
Aroclor 1221	16438	0	
Aroclor 1221	16438	0	
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA

Aroclor 1232	0	0	BA
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	139922	148527	CO
Aroclor 1248	139922	148527	CO
Aroclor 1248	139922	148527	CO
Aroclor 1248	139922	148527	CO
Aroclor 1248	139922	148527	CO
Aroclor 1254	388999	404017	BA
Aroclor 1254	388999	404017	BA
Aroclor 1254	388999	404017	BA
Aroclor 1254	388999	404017	BA
Aroclor 1254	388999	404017	BA
Aroclor 1260	1257746	1279187	BA
Aroclor 1260	1257746	1279187	BA
Aroclor 1260	1257746	1279187	BA
Aroclor 1260	1257746	1279187	BA
Aroclor 1260	1257746	1279187	BA
Tetrachloro-m-xylene	11785216	11785216	
Decachlorobiphenyl	10967872	10967872	

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SAMPLE NO.

FD1-170613-01-LMB-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/14/2017 09:50

Matrix: Tissue SDG No.: 40151613

Date Extracted: 03/15/2018 07:20

Lab Sample ID: 40151613005

Date Analyzed: 03/16/2018 19:58

Lab File ID: 031618.B\031618025.D

Initial wt/vol: 10.0111 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)	17.2	J
11097-69-1	PCB-1254 (Aroclor 1254)	17.3	J
11096-82-5	PCB-1260 (Aroclor 1260)	26.7	J
1336-36-3	PCB, Total	61.2	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618025.D
Lab Smp Id: 40151613005 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 19:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613005,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
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	10.011	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.036	13026	10859	0.834	0.03		
1.158	9836	10854	1.104	0.02		
1.428	12763	11221	0.879	0.03		
1.539	9671	10207	1.055	0.02		
1.954	10791	6719	0.623	0.03		
2.166	10796	8706	0.806	0.03		
2.195	14908	11757	0.789	0.04		
2.293	28280	24014	0.849	0.08		
2.409	36936	34061	0.922	0.11		
2.484	11785315	11777260	0.999	36.45	$ 2 Tetrachloro-m-xylene	
2.786	28073	23758	0.846	0.08		
2.856	20635	16736	0.811	0.06		
2.969	26546	15479	0.583	0.08		
3.022	15438	13422	0.869	0.04		
3.401	12992	12649	0.974	0.03		
3.826	51910	36154	0.696	0.15		
4.050	28687	21966	0.766	0.08		
4.213	49185	43390	0.882	0.14		
4.240	20466	23633	1.155	0.06		
4.260	52120	48159	0.924	0.15	6 Aroclor 1248	BA
4.294	55723	36917	0.663	0.16		
4.418	42643	34318	0.805	0.12		
4.451	22993	20901	0.909	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.545	68568	56039	0.817	0.20	6 Aroclor 1248
4.766	76427	67010	0.877	0.23	
4.812	120220	107714	0.896	0.36	6 Aroclor 1248
4.848	66558	62939	0.946	0.20	
4.879	260768	193553	0.742	0.79	6 Aroclor 1248
4.960	26745	20074	0.751	0.08	
5.037	80478	76768	0.954	0.24	6 Aroclor 1248
5.060	29563	21071	0.713	0.09	
5.099	98167	64619	0.658	0.29	
5.161	203188	178103	0.877	0.61	7 Aroclor 1254
5.211	233302	200633	0.860	0.71	
5.282	32118	26028	0.810	0.09	
5.312	119417	107040	0.896	0.36	
5.346	17786	29048	1.633	0.05	
5.362	77240	57539	0.745	0.23	
5.405	102570	86722	0.845	0.31	7 Aroclor 1254
5.451	1113222	1106177	0.994	3.39	
5.509	201379	175882	0.873	0.61	7 Aroclor 1254
5.578	18447	17530	0.950	0.05	
5.604	39286	24748	0.630	0.11	
5.673	95109	80413	0.845	0.28	
5.712	27837	30137	1.083	0.08	
5.741	100972	64397	0.638	0.30	
5.790	605553	511407	0.845	1.84	
5.820	37118	52548	1.416	0.11	
5.837	85053	66928	0.787	0.25	
5.897	75158	41946	0.558	0.22	
5.931	29807	22450	0.753	0.09	
5.994	158936	146141	0.919	0.48	
6.023	243951	219794	0.901	0.74	7 Aroclor 1254
6.054	680104	621896	0.914	2.07	
6.121	22807	16407	0.719	0.06	
6.167	132319	91735	0.693	0.40	
6.226	95333	50016	0.525	0.29	
6.298	803936	712467	0.886	2.44	8 Aroclor 1260
6.333	91637	82156	0.897	0.27	
6.372	28889	23335	0.808	0.08	
6.433	70485	39953	0.567	0.21	
6.510	321982	303559	0.943	0.98	
6.535	152930	149817	0.980	0.46	
6.560	125327	110794	0.884	0.38	
6.601	30945	29322	0.948	0.09	
6.663	27728	24832	0.896	0.08	
6.716	86647	72059	0.832	0.26	
6.760	71048	59373	0.836	0.21	
6.802	142982	129343	0.905	0.43	
6.841	35533	29234	0.823	0.10	
6.941	119871	113489	0.947	0.36	
7.003	439767	410077	0.932	1.33	8 Aroclor 1260
7.034	33738	38066	1.128	0.10	
7.096	19336	16234	0.840	0.05	
7.250	212294	187214	0.882	0.64	8 Aroclor 1260
7.280	90274	63869	0.708	0.27	
7.387	116480	100904	0.866	0.35	
7.441	143687	126139	0.878	0.43	8 Aroclor 1260
7.690	51577	45411	0.880	0.15	
7.726	48218	39001	0.809	0.14	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.763	29511	24654	0.835	0.08	
7.810	51028	34352	0.673	0.15	
7.862	11613	9918	0.854	0.03	
7.899	101643	90907	0.894	0.30	8 Aroclor 1260
7.956	53000	39049	0.737	0.16	
8.048	53362	47440	0.889	0.16	
8.276	120787	104507	0.865	0.36	
8.376	34281	24980	0.729	0.10	
8.480	19031	12779	0.671	0.05	
8.570	11023041	9835047	0.892	33.58	$ 12 Decachlorobiphenyl
8.722	25406	18596	0.732	0.07	
8.936	14916	11470	0.769	0.04	
9.054	16543	12509	0.756	0.05	
9.168	241903	211134	0.873	0.73	
9.468	22208	13678	0.616	0.06	
	32818825	30346260		100.000	

Total unknown % area = 21

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618025.D
Lab Smp Id: 40151613005 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 19:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613005,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
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	10.011	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.483	2.484	-0.001	11785314	0.09559	48			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	52120	0.02225	11	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	68568	0.01652	8.2	0.00- 20.00	131.56	BA
4.811	4.812	-0.001	120220	0.05922	30	0.00- 20.00	230.66	BA
4.878	4.879	-0.001	260767	0.05177	26	0.00- 20.00	500.32	BA
5.037	5.038	-0.001	80478	0.02243	11	0.00- 20.00	154.41	BA
		Average of Peak Concentrations =			17			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	203188	0.03881	19	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	102570	0.02385	12	0.00- 20.00	50.48	BA
5.509	5.510	-0.001	201379	0.02593	13	0.00- 20.00	99.11	BA
6.023	6.027	-0.004	243950	0.05010	25	0.00- 20.00	120.06	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			17			
8 Aroclor 1260					CAS #: 11096-82-5			
6.297	6.300	-0.003	803936	0.09071	45	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	439766	0.04391	22	0.00- 20.00	54.70	BA
7.249	7.251	-0.002	212294	0.04441	22	0.00- 20.00	26.41	BA
7.441	7.443	-0.002	143687	0.04929	25	0.00- 20.00	17.87	BA
7.898	7.901	-0.003	101643	0.03852	19	0.00- 20.00	12.64	BA
		Average of Peak Concentrations =			27			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	11023041	0.10061	50			

QC Flag Legend

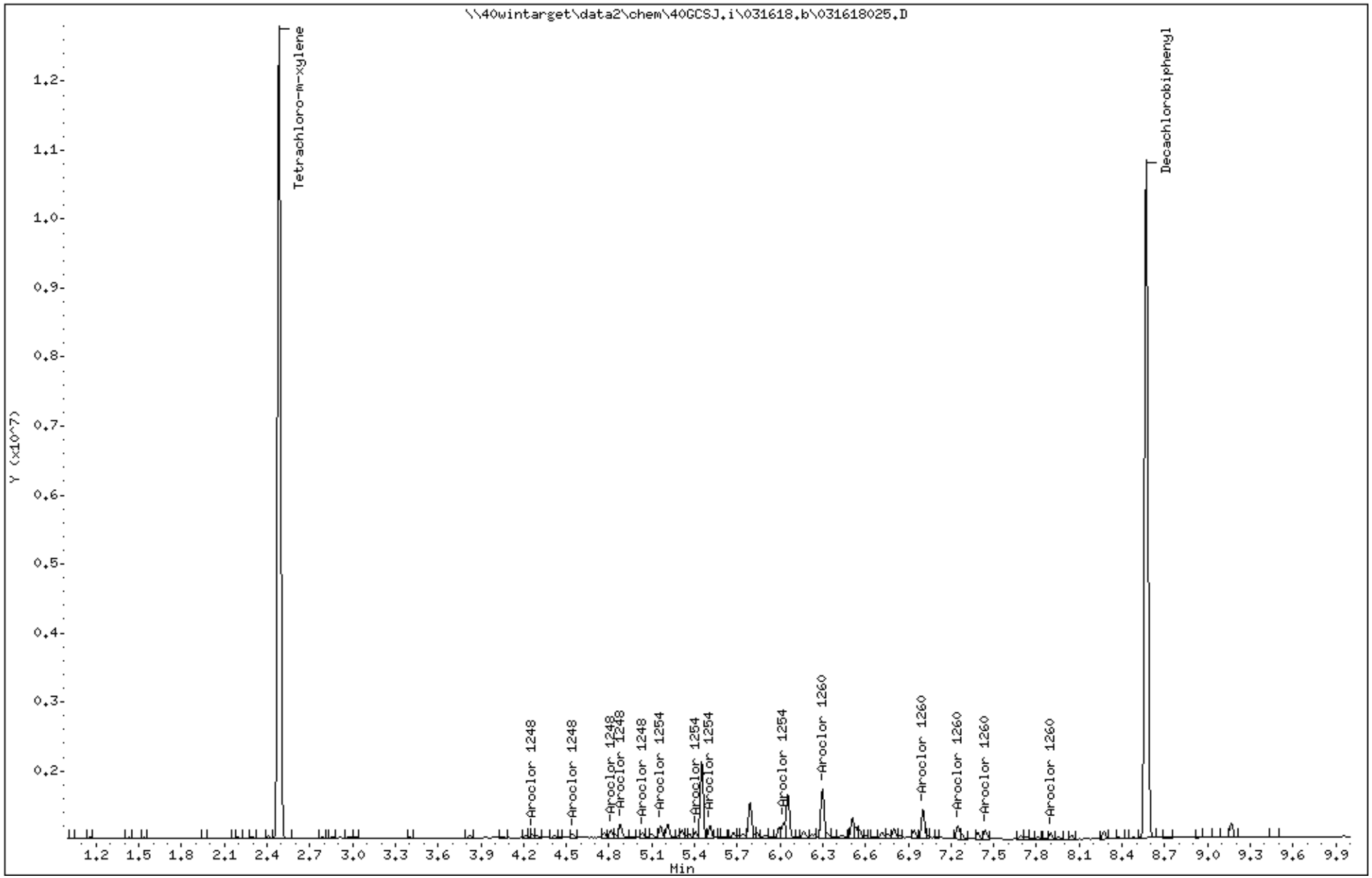
M - Compound response manually integrated.

Review Codes Legend

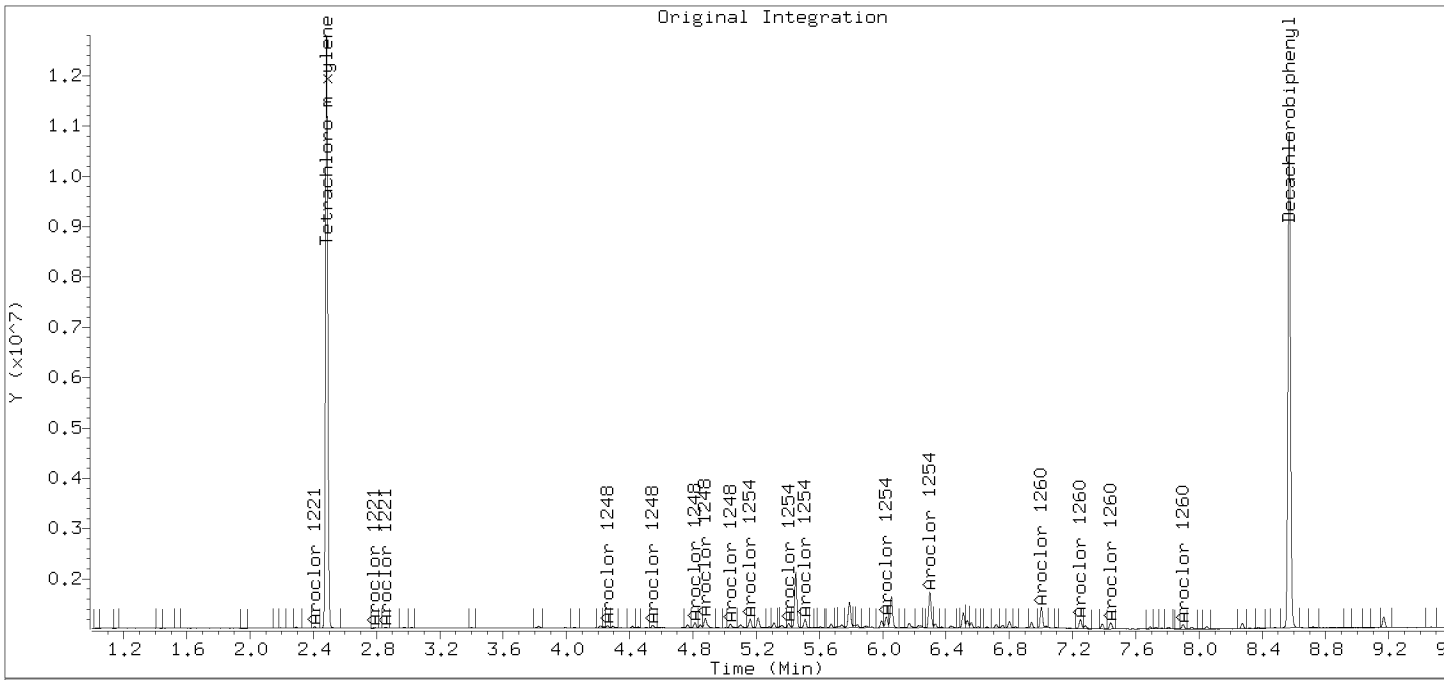
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

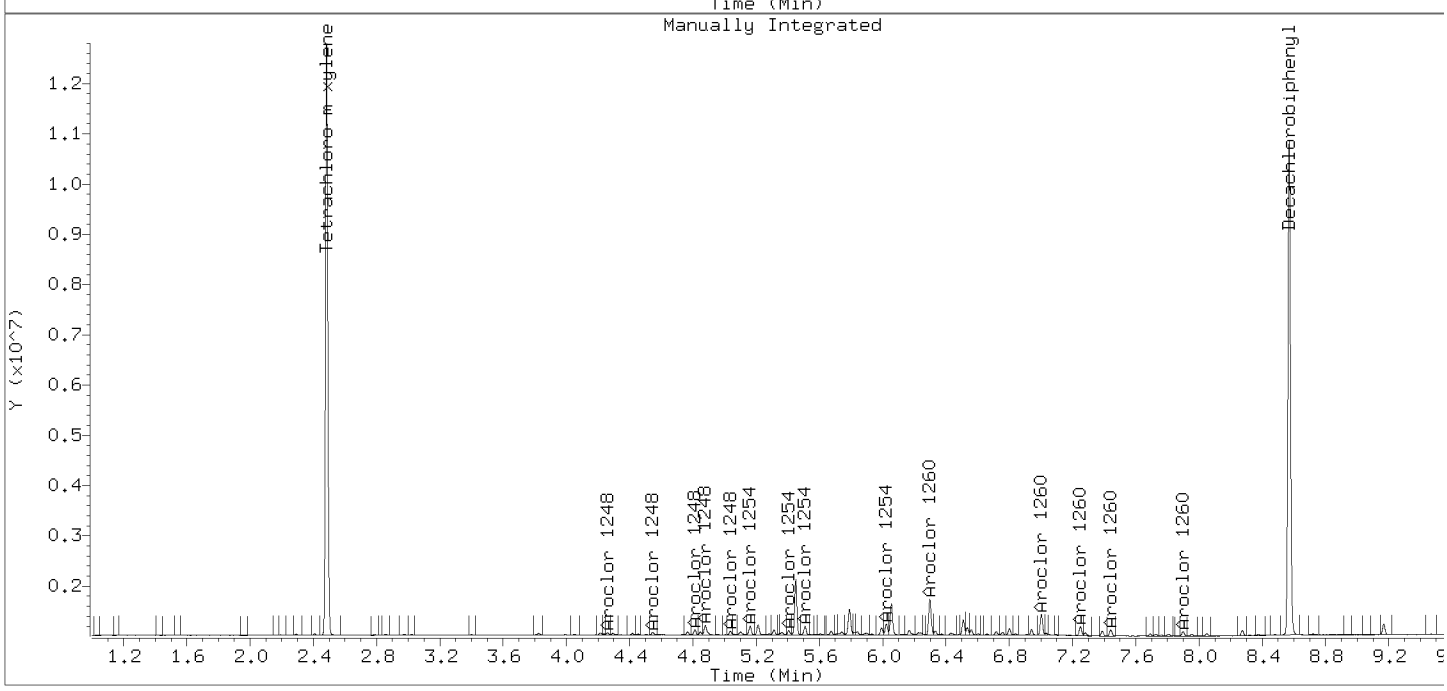
Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618025.D
Date : 16-MAR-2018 19:58
Client ID: FD1-170613-01-LMB-0
Sample Info: 40151613005,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 16-MAR-2018 19:58 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613005





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	50032	52120	BA
Aroclor 1248	50032	52120	BA
Aroclor 1248	50032	52120	BA
Aroclor 1248	50032	52120	BA
Aroclor 1248	50032	52120	BA
Aroclor 1254	191201	203188	BA
Aroclor 1254	191201	203188	BA
Aroclor 1254	191201	203188	BA
Aroclor 1254	191201	203188	BA
Aroclor 1254	191201	203188	BA
Aroclor 1260	794951	803936	BA
Aroclor 1260	794951	803936	BA
Aroclor 1260	794951	803936	BA
Aroclor 1260	794951	803936	BA
Aroclor 1260	794951	803936	BA
Tetrachloro-m-xylene	11785314	11785314	
Decachlorobiphenyl	11023041	11023041	

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SAMPLE NO.

FD1-170613-01-LMB-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151613
Date Extracted: 03/15/2018 07:20
Lab Sample ID: 40151613006
Date Analyzed: 03/16/2018 20:14
Lab File ID: 031618.B\031618026.D
Initial wt/vol: 9.9764 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)	17.9	J
1336-36-3	PCB, Total	17.9	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618026.D
Lab Smp Id: 40151613006 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 20:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613006,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.976	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.187	11840	9642	0.814	0.04		
1.429	12962	10384	0.801	0.04		
1.538	11138	8914	0.800	0.04		
2.292	16893	13175	0.780	0.06		
2.409	23852	20852	0.874	0.08		
2.484	9946036	9765530	0.982	37.19	$ 2 Tetrachloro-m-xylene	
2.791	22884	16828	0.735	0.08		
2.858	28652	18398	0.642	0.10		
2.974	18846	13146	0.698	0.07		
3.027	9820	9780	0.996	0.03		
3.397	14052	12362	0.880	0.05		
3.827	31250	20251	0.648	0.11		
3.994	15273	10081	0.660	0.05		
4.051	29896	24079	0.805	0.11		
4.213	29828	26412	0.885	0.11		
4.237	30138	27726	0.920	0.11		
4.261	28588	28368	0.992	0.10	6 Aroclor 1248	BA
4.290	34119	21325	0.625	0.12		
4.418	23526	21006	0.893	0.08		
4.452	17915	14371	0.802	0.06		
4.545	48546	32431	0.668	0.18	6 Aroclor 1248	BA
4.609	13671	10368	0.758	0.05		
4.768	48843	39265	0.804	0.18		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.811	58020	47439	0.818	0.21	6 Aroclor 1248
4.847	41612	38518	0.926	0.15	
4.878	123015	82327	0.669	0.46	6 Aroclor 1248
4.953	15258	13006	0.852	0.05	
5.038	41383	40580	0.981	0.15	6 Aroclor 1248
5.099	67547	41478	0.614	0.25	
5.162	117145	105193	0.898	0.43	7 Aroclor 1254
5.213	111511	95360	0.855	0.41	
5.311	56640	49385	0.872	0.21	
5.345	64771	35151	0.543	0.24	
5.406	64464	54415	0.844	0.24	7 Aroclor 1254
5.450	707257	700543	0.991	2.64	
5.509	135399	108959	0.805	0.50	7 Aroclor 1254
5.572	21800	14435	0.662	0.08	
5.603	22090	21059	0.953	0.08	
5.673	68859	52751	0.766	0.25	
5.709	25183	21942	0.871	0.09	
5.737	64315	41748	0.649	0.24	
5.789	319688	267052	0.835	1.19	
5.821	68778	40514	0.589	0.25	
5.895	26659	23646	0.887	0.09	
5.929	28232	16675	0.591	0.10	
5.993	93963	86311	0.919	0.35	
6.023	122661	110600	0.902	0.45	7 Aroclor 1254
6.055	401054	355242	0.886	1.49	
6.168	89299	63268	0.708	0.33	
6.226	61288	31778	0.519	0.22	
6.298	479683	409295	0.853	1.79	8 Aroclor 1260
6.332	59294	55413	0.935	0.22	
6.372	24842	18079	0.728	0.09	
6.433	50580	29217	0.578	0.18	
6.509	226772	202931	0.895	0.84	
6.534	100172	92398	0.922	0.37	
6.561	90890	80491	0.886	0.33	
6.604	24057	18265	0.759	0.08	
6.660	26158	21110	0.807	0.09	
6.717	79688	65363	0.820	0.29	
6.757	57196	49438	0.864	0.21	
6.800	95928	82444	0.859	0.35	
6.839	37380	22646	0.606	0.13	
6.942	75926	67397	0.888	0.28	
7.004	316010	289160	0.915	1.18	8 Aroclor 1260
7.036	30283	30122	0.995	0.11	
7.124	15702	11112	0.708	0.05	
7.249	132220	120686	0.913	0.49	8 Aroclor 1260
7.279	54334	41471	0.763	0.20	
7.339	10476	8963	0.856	0.03	
7.386	93647	81315	0.868	0.35	
7.443	104189	96052	0.922	0.38	8 Aroclor 1260
7.620	10582	7049	0.666	0.03	
7.690	38282	34851	0.910	0.14	
7.727	38835	33741	0.869	0.14	
7.762	17050	14451	0.848	0.06	
7.807	34247	20622	0.602	0.12	
7.897	77488	68467	0.884	0.28	8 Aroclor 1260
7.956	29697	21726	0.732	0.11	
8.048	23399	18652	0.797	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.272	107110	93450	0.872	0.40	
8.375	28035	18610	0.664	0.10	
8.482	12269	9803	0.799	0.04	
8.569	10497682	9341447	0.890	39.72	$ 12 Decachlorobiphenyl
8.723	13289	12335	0.928	0.04	
9.167	137084	119352	0.871	0.51	
	26736938	24441993		100.000	

Total unknown % area = 16

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618026.D
Lab Smp Id: 40151613006 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 20:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613006,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	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		
2.483	2.484	-0.001	9946036	0.08067	40			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
Qualifier signal(s) failed ratio test.								BA
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
6.297	6.300	-0.003	479683	0.05413	27	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	316010	0.03156	16	0.00- 20.00	65.88	BA
7.248	7.251	-0.003	132220	0.02766	14	0.00- 20.00	27.56	BA
7.442	7.443	-0.001	104188	0.03574	18	0.00- 20.00	21.72	BA
7.896	7.901	-0.005	77488	0.02937	15	0.00- 20.00	16.15	BA
Average of Peak Concentrations =					18			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10497681	0.09582	48			

QC Flag Legend

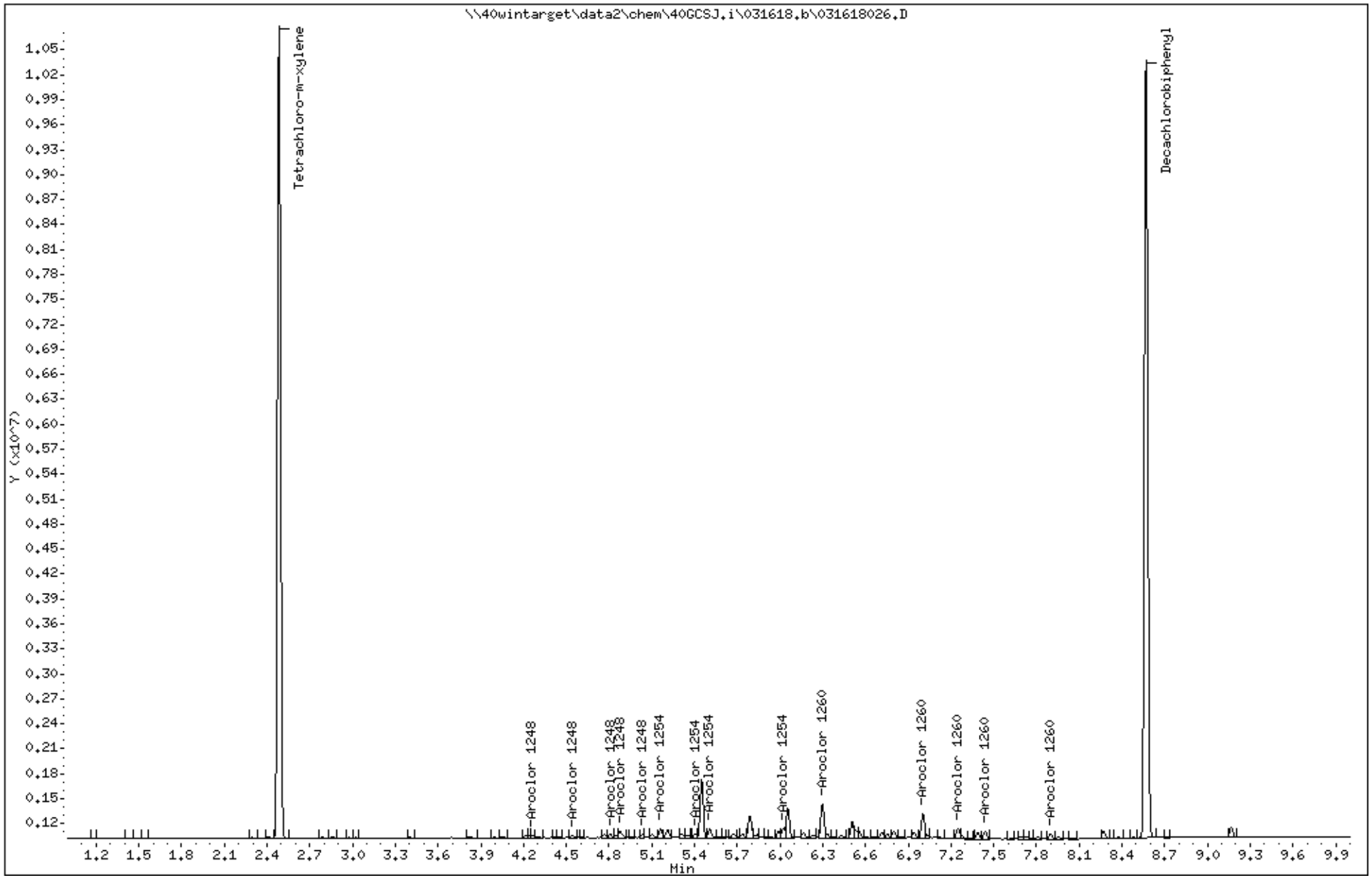
M - Compound response manually integrated.

Review Codes Legend

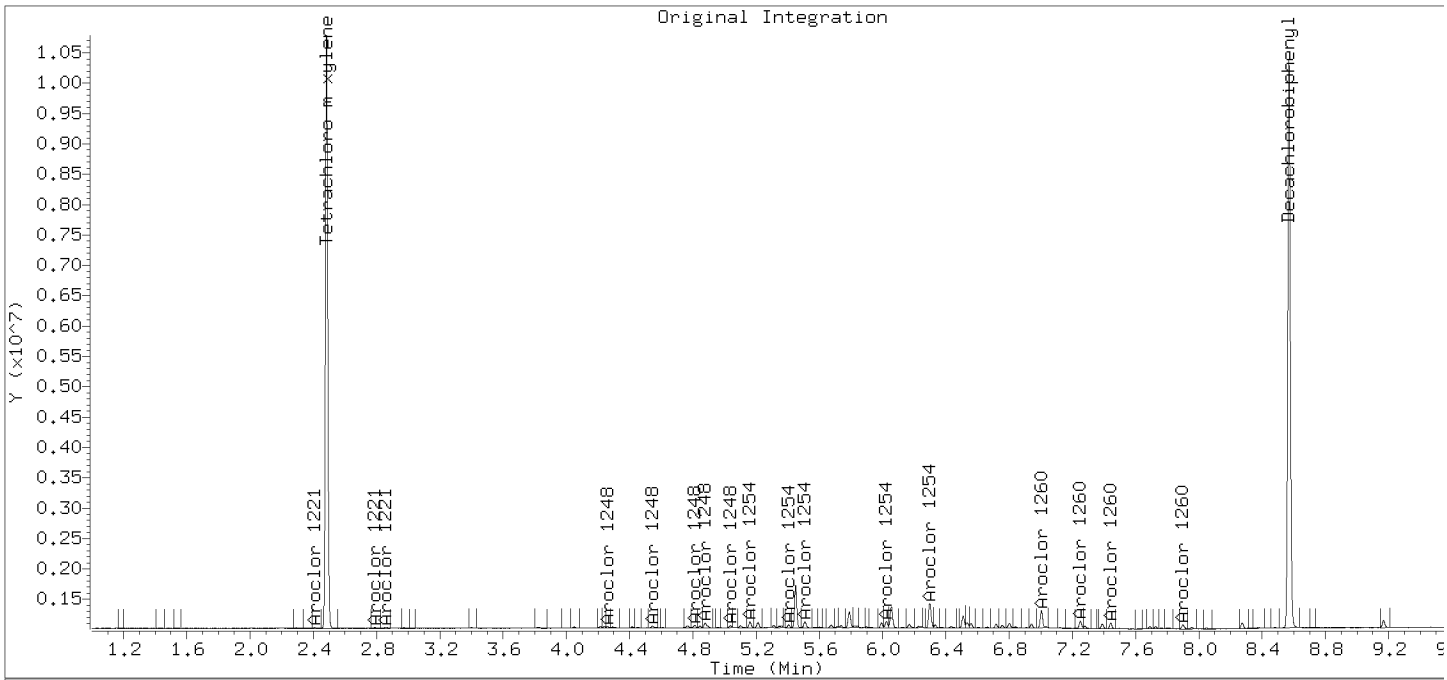
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

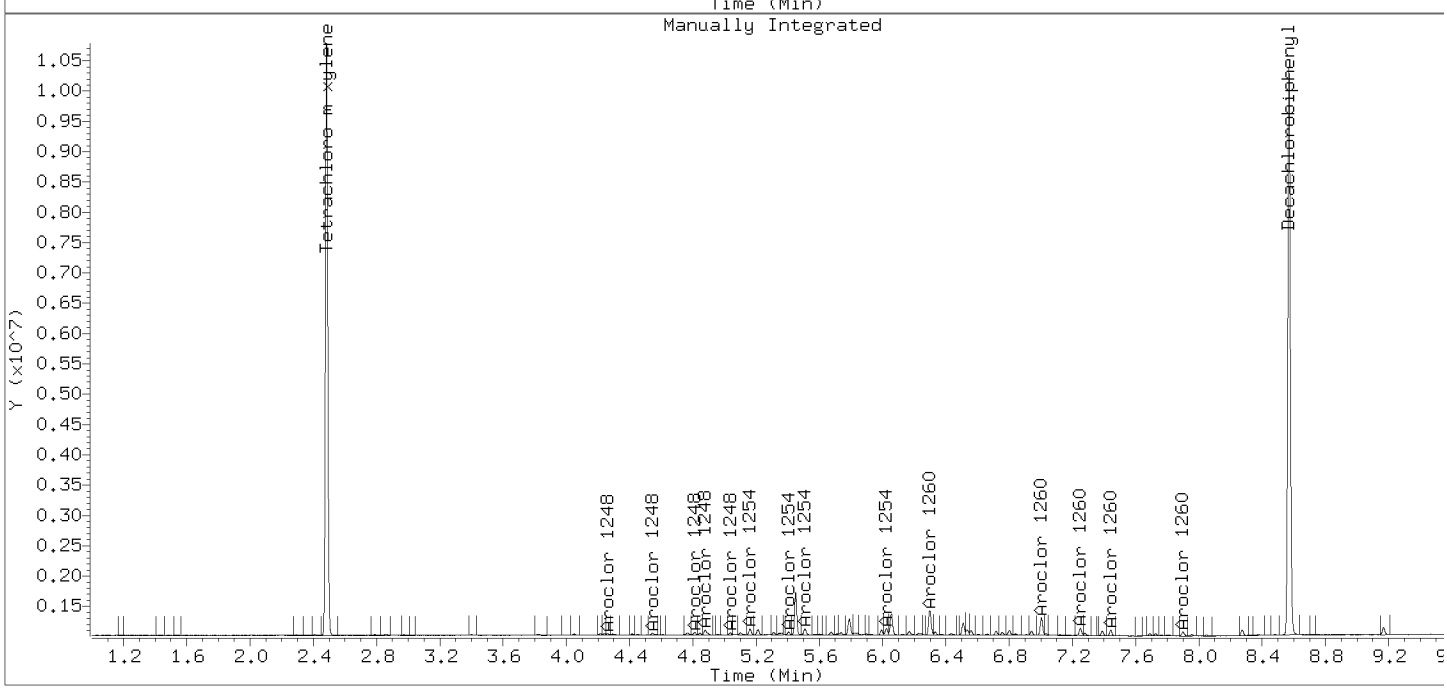
Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618026.D
Date : 16-MAR-2018 20:14
Client ID: FD1-170613-01-LMB-0
Sample Info: 40151613006,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 16-MAR-2018 20:14 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613006





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	BA
Aroclor 1248	0	0	BA
Aroclor 1248	0	0	BA
Aroclor 1248	0	0	BA
Aroclor 1248	0	0	BA
Aroclor 1254	103447	0	BA
Aroclor 1254	103447	0	BA
Aroclor 1254	103447	0	BA
Aroclor 1254	103447	0	BA
Aroclor 1254	103447	0	BA
Aroclor 1260	469142	479683	BA
Aroclor 1260	469142	479683	BA
Aroclor 1260	469142	479683	BA
Aroclor 1260	469142	479683	BA
Aroclor 1260	469142	479683	BA
Tetrachloro-m-xylene	9946036	9946036	
Decachlorobiphenyl	10497681	10497681	

==========

SAMPLE NO.

FD1-170613-01-LMB-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151613
Date Extracted: 03/15/2018 07:20
Lab Sample ID: 40151613007
Date Analyzed: 03/16/2018 20:30
Lab File ID: 031618.B\031618027.D
Initial wt/vol: 9.9934 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
1336-36-3	PCB, Total	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618027.D
Lab Smp Id: 40151613007 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 20:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613007,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
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	9.993	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.151	9693	10203	1.053	0.04		
1.185	21828	13769	0.631	0.09		
1.427	10416	9116	0.875	0.04		
1.543	10363	8304	0.801	0.04		
2.201	12543	7521	0.600	0.05		
2.409	13843	11753	0.849	0.06	1 Aroclor 1221	
2.484	9859121	9816640	0.996	43.76	$ 2 Tetrachloro-m-xylene	
2.789	21682	15770	0.727	0.09	1 Aroclor 1221	
2.859	20797	14820	0.713	0.09	1 Aroclor 1221	
2.973	10454	8499	0.813	0.04		
3.401	34000	26629	0.783	0.15		
3.692	28508	22402	0.786	0.12		
4.049	19157	14996	0.783	0.08		
4.214	28115	27710	0.986	0.12		
4.240	23188	24945	1.076	0.10		
4.260	30268	30272	1.000	0.13	6 Aroclor 1248	BA
4.293	30277	21591	0.713	0.13		
4.414	25107	21005	0.837	0.11		
4.451	20919	16295	0.779	0.09		
4.547	43225	36332	0.841	0.19	6 Aroclor 1248	BA
4.766	41329	23624	0.572	0.18		
4.810	62410	51880	0.831	0.27	6 Aroclor 1248	BA
4.846	28820	25377	0.881	0.12		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.877	114057	83288	0.730	0.50	6 Aroclor 1248
4.956	20440	12368	0.605	0.09	
5.036	48132	44713	0.929	0.21	6 Aroclor 1248
5.099	41510	24629	0.593	0.18	
5.161	70783	56866	0.803	0.31	7 Aroclor 1254
5.210	64921	53797	0.829	0.28	
5.311	25098	20973	0.836	0.11	
5.345	49474	26150	0.529	0.21	
5.382	14656	16896	1.153	0.06	
5.406	41825	37521	0.897	0.18	7 Aroclor 1254
5.449	172889	156816	0.907	0.76	
5.507	81656	59065	0.723	0.36	7 Aroclor 1254
5.600	19660	14593	0.742	0.08	
5.675	26462	19794	0.748	0.11	
5.736	25360	18909	0.746	0.11	
5.791	134181	108388	0.808	0.59	
5.828	31371	23206	0.740	0.13	
5.992	29470	26291	0.892	0.13	
6.024	56886	51562	0.906	0.25	7 Aroclor 1254
6.056	115387	93953	0.814	0.51	
6.121	21277	12688	0.596	0.09	
6.167	24182	20080	0.830	0.10	
6.188	24221	16607	0.686	0.10	
6.226	21130	13860	0.656	0.09	
6.298	131664	110926	0.842	0.58	7 Aroclor 1254
6.334	20402	15719	0.770	0.09	
6.509	54768	48037	0.877	0.24	
6.535	26657	26583	0.997	0.11	
6.560	26676	19753	0.740	0.11	
6.715	24259	17655	0.728	0.10	
6.760	22046	17944	0.814	0.09	
6.800	27335	21108	0.772	0.12	
6.941	35370	27289	0.772	0.15	
7.003	67768	59877	0.884	0.30	8 Aroclor 1260
7.029	7699	10551	1.370	0.03	
7.125	22361	11899	0.532	0.09	
7.251	38685	33317	0.861	0.17	8 Aroclor 1260
7.279	24148	15289	0.633	0.10	
7.386	26324	21248	0.807	0.11	
7.441	36277	24149	0.666	0.16	8 Aroclor 1260
7.689	13942	11911	0.854	0.06	
7.725	36861	31027	0.842	0.16	
7.799	25380	14097	0.555	0.11	
7.897	25088	17954	0.716	0.11	8 Aroclor 1260
7.950	13805	10874	0.788	0.06	
8.046	13156	12095	0.919	0.05	
8.274	85304	76740	0.900	0.37	
8.376	18546	15305	0.825	0.08	
8.569	9943379	8844276	0.889	44.48	$ 12 Decachlorobiphenyl
9.168	67603	57120	0.845	0.30	
9.955	9303	7156	0.769	0.04	
	22525901	20852365		100.000	

Total unknown % area = 7.8

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618027.D
Lab Smp Id: 40151613007 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 20:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613007,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
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	9.993	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

Compound Not Detected.

$ 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	9859120	0.07996	40			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
Qualifier signal(s) failed ratio test.								BA
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9943379	0.09076	45			

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\031618.b\031618027.D

Date : 16-MAR-2018 20:30

Client ID: FD1-170613-01-LMB-0

Instrument: 40GCSJ.i

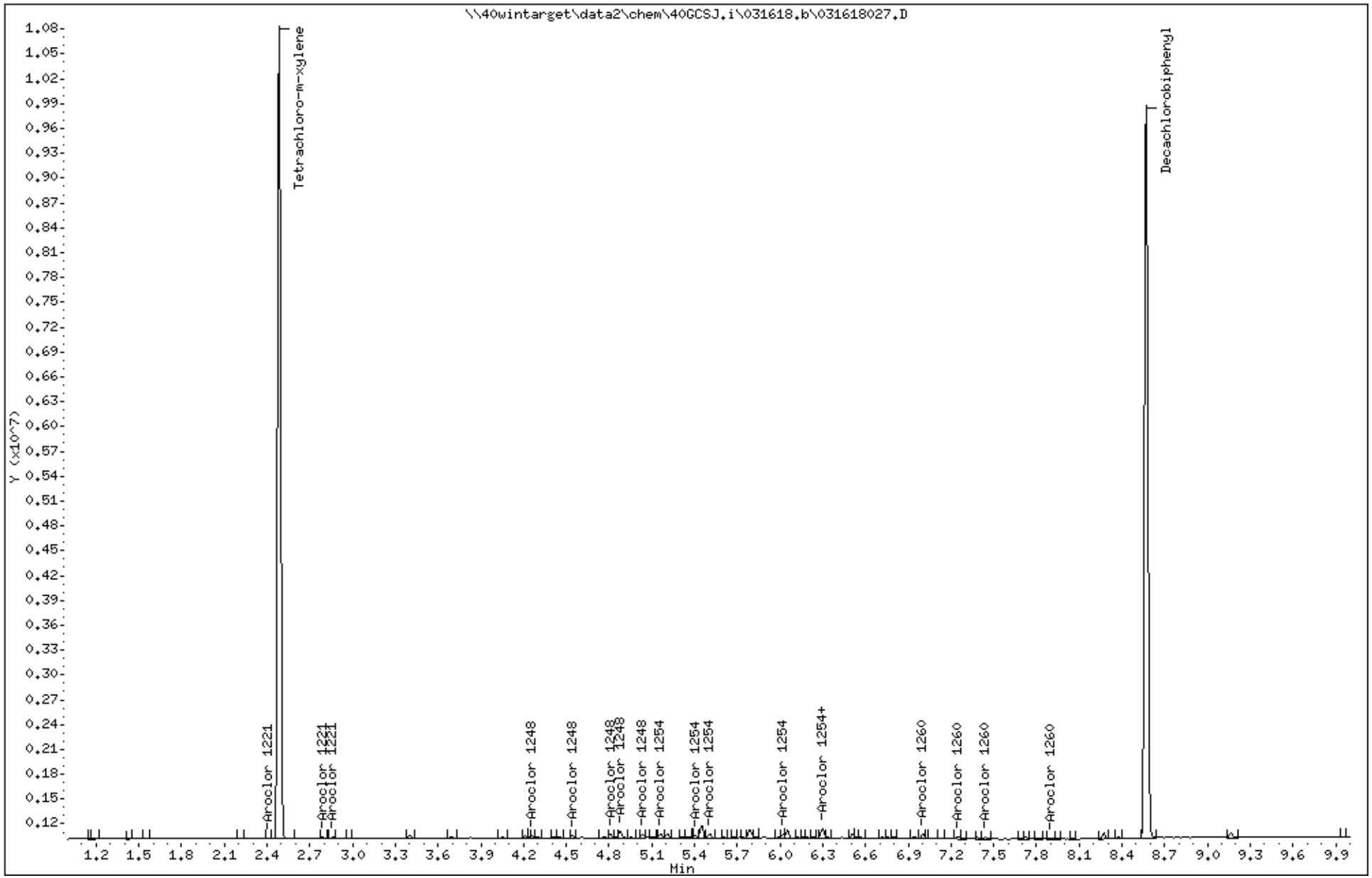
Sample Info: 40151613007,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 16-MAR-2018 20:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613007

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	BA
Aroclor 1248	0	0	BA
Aroclor 1248	0	0	BA
Aroclor 1248	0	0	BA
Aroclor 1248	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Tetrachloro-m-xylene	9859120	9859120	
Decachlorobiphenyl	9943379	9943379	

SAMPLE NO.

FD1-170613-01-LMB-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151613
Date Extracted: 03/15/2018 07:20
Lab Sample ID: 40151613008
Date Analyzed: 03/16/2018 21:17
Lab File ID: 031618.B\031618030.D
Initial wt/vol: 9.988 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)	13.2	J
11097-69-1	PCB-1254 (Aroclor 1254)	12.8	J
11096-82-5	PCB-1260 (Aroclor 1260)	14.0	J
1336-36-3	PCB, Total	39.9	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618030.D
Lab Smp Id: 40151613008 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 21:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613008,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 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	9.988	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.026	12421	9047	0.728	0.04			
1.069	10655	8734	0.820	0.03			
2.128	9875	8091	0.819	0.03			
2.192	19232	11413	0.593	0.07			
2.293	51059	35579	0.697	0.18			
2.409	14806	16505	1.115	0.05		1 Aroclor 1221	
2.484	10485853	10554511	1.007	39.13	$	2 Tetrachloro-m-xylene	
2.786	19324	17529	0.907	0.07		1 Aroclor 1221	
2.858	24100	17673	0.733	0.08		1 Aroclor 1221	
2.976	9847	11623	1.180	0.03			
3.025	20788	15626	0.752	0.07			
3.400	19651	16322	0.831	0.07			
3.828	41193	27262	0.662	0.15			
3.995	11156	11771	1.055	0.04			
4.051	21270	18621	0.875	0.07			
4.216	51999	47613	0.916	0.19			
4.240	29186	31346	1.074	0.10			
4.261	46803	45302	0.968	0.17		6 Aroclor 1248	BA
4.290	55988	32054	0.573	0.20			
4.350	14710	9743	0.662	0.05			
4.418	42664	32518	0.762	0.15			
4.450	42766	26775	0.626	0.15			
4.546	79903	58579	0.733	0.29		6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.766	97521	69768	0.715	0.35	
4.812	80358	63489	0.790	0.29	6 Aroclor 1248
4.847	66636	61637	0.925	0.24	
4.878	176439	115935	0.657	0.65	6 Aroclor 1248
4.955	20888	17206	0.824	0.07	
5.037	63403	58898	0.929	0.23	6 Aroclor 1248
5.100	58046	48321	0.832	0.21	
5.163	165233	145392	0.880	0.60	7 Aroclor 1254
5.212	124250	111804	0.900	0.45	
5.312	56545	48897	0.865	0.20	
5.348	69811	45420	0.651	0.25	
5.404	86126	76636	0.890	0.31	7 Aroclor 1254
5.450	538937	527126	0.978	1.98	
5.509	178227	151542	0.850	0.65	7 Aroclor 1254
5.602	37043	23670	0.639	0.13	
5.674	73490	58351	0.794	0.27	
5.717	32927	23390	0.710	0.12	
5.742	46560	31862	0.684	0.17	
5.789	337113	286267	0.849	1.24	
5.823	39011	40702	1.043	0.14	
5.837	52167	47618	0.913	0.19	
5.992	82067	71532	0.872	0.30	
6.024	134472	124163	0.923	0.49	7 Aroclor 1254
6.055	372632	325913	0.875	1.37	
6.124	28414	17082	0.601	0.10	
6.168	101266	64444	0.636	0.37	
6.228	23592	27610	1.170	0.08	
6.242	44922	34113	0.759	0.16	
6.298	430230	368395	0.856	1.58	8 Aroclor 1260
6.333	55131	49525	0.898	0.20	
6.371	27622	17580	0.636	0.10	
6.432	47178	28687	0.608	0.17	
6.509	164718	150279	0.912	0.60	
6.535	96577	86815	0.899	0.35	
6.560	66770	57465	0.861	0.24	
6.604	19479	15406	0.791	0.07	
6.661	24330	18976	0.780	0.08	
6.717	61545	48653	0.791	0.22	
6.757	62717	52558	0.838	0.23	
6.800	81096	71358	0.880	0.29	
6.840	26587	22527	0.847	0.09	
6.941	154627	134243	0.868	0.56	
7.004	216199	196180	0.907	0.79	8 Aroclor 1260
7.033	18450	21599	1.171	0.06	
7.098	28086	17524	0.624	0.10	
7.250	112933	94503	0.837	0.41	8 Aroclor 1260
7.281	53572	35902	0.670	0.19	
7.339	15618	11963	0.766	0.05	
7.388	65841	51862	0.788	0.24	
7.441	74023	60001	0.811	0.27	8 Aroclor 1260
7.489	26755	11302	0.422	0.09	
7.579	12422	10619	0.855	0.04	
7.689	29532	25090	0.850	0.10	
7.727	46036	36582	0.795	0.16	
7.764	16191	12768	0.789	0.05	
7.809	63507	41110	0.647	0.23	
7.901	53396	39368	0.737	0.19	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.954	31386	18172	0.579	0.11	
8.047	91057	80371	0.883	0.33	
8.274	92994	84488	0.909	0.34	
8.375	27868	20076	0.720	0.10	
8.480	11417	8673	0.760	0.04	
8.570	10233549	9432387	0.922	37.72	$ 12 Decachlorobiphenyl
8.722	23578	14985	0.636	0.08	
9.049	12088	10856	0.898	0.04	
9.168	129431	114128	0.882	0.47	
	27127884	25356001		100.000	

Total unknown % area = 16

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618030.D
Lab Smp Id: 40151613008 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 21:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613008,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 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	9.988	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.484	2.484	0.000	10485852	0.08505	42			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	46802	0.01998	10	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	79902	0.01925	9.6	0.00- 20.00	170.72	BA
4.811	4.812	-0.001	80357	0.03958	20	0.00- 20.00	171.70	BA
4.877	4.879	-0.002	176438	0.03503	18	0.00- 20.00	376.99	BA
5.036	5.038	-0.002	63403	0.01767	8.8	0.00- 20.00	135.47	BA
Average of Peak Concentrations =					13			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	165233	0.03156	16	0.00- 20.00	100.00(M)	BA
5.404	5.408	-0.004	86126	0.02002	10	0.00- 20.00	52.12	BA
5.509	5.510	-0.001	178227	0.02295	11	0.00- 20.00	107.86	BA
6.023	6.027	-0.004	134471	0.02761	14	0.00- 20.00	81.38	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					13			
8 Aroclor 1260					CAS #: 11096-82-5			
6.297	6.300	-0.003	430229	0.04855	24	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	216198	0.02159	11	0.00- 20.00	50.25	CO
7.249	7.251	-0.002	112932	0.02363	12	0.00- 20.00	26.25	CO
7.440	7.443	-0.003	74023	0.02539	13	0.00- 20.00	17.21	CO
7.900	7.901	-0.001	53396	0.02024	10	0.00- 20.00	12.41	CO
Average of Peak Concentrations =					14			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10233549	0.09341	47			

QC Flag Legend

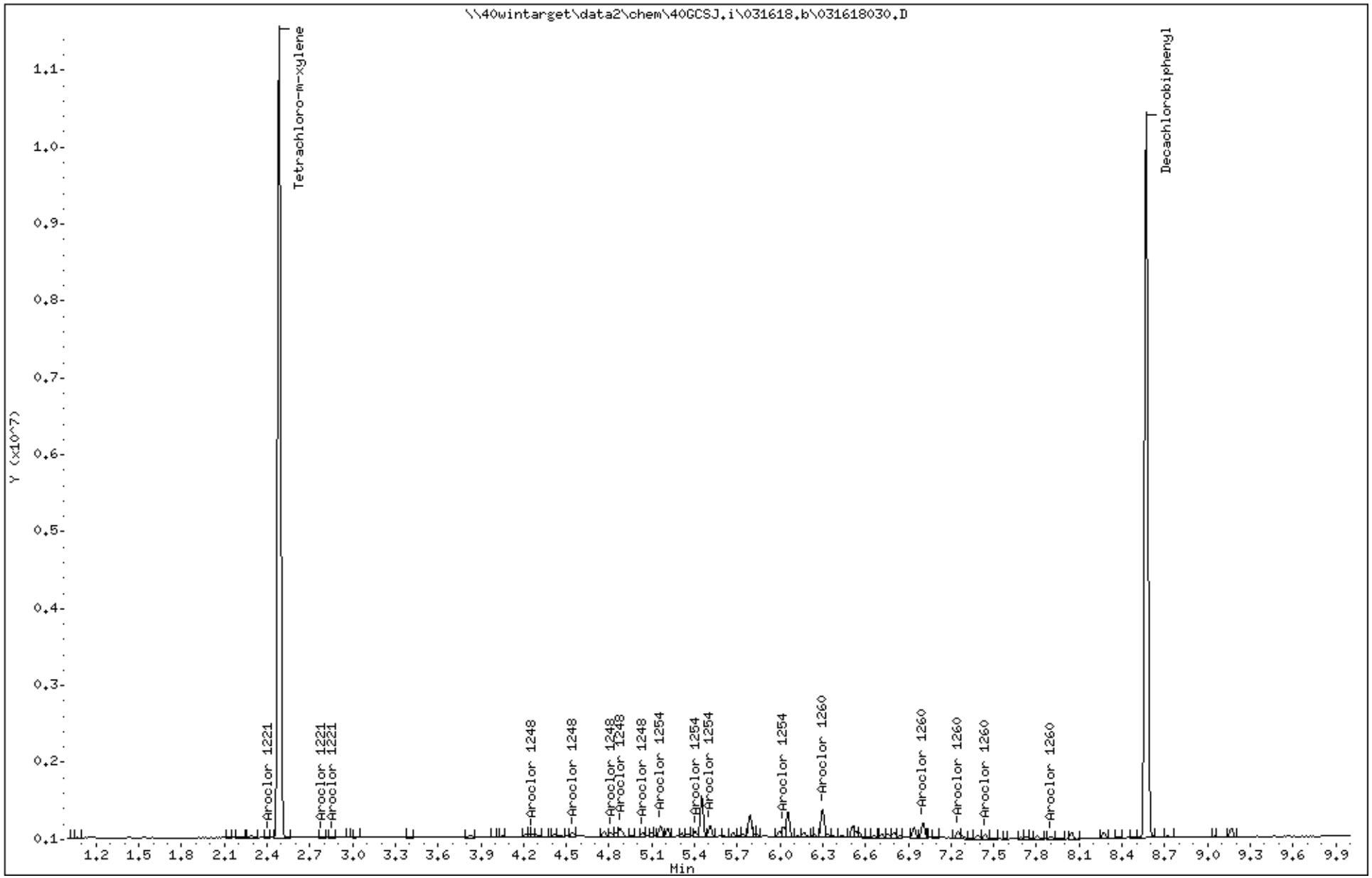
M - Compound response manually integrated.

Review Codes Legend

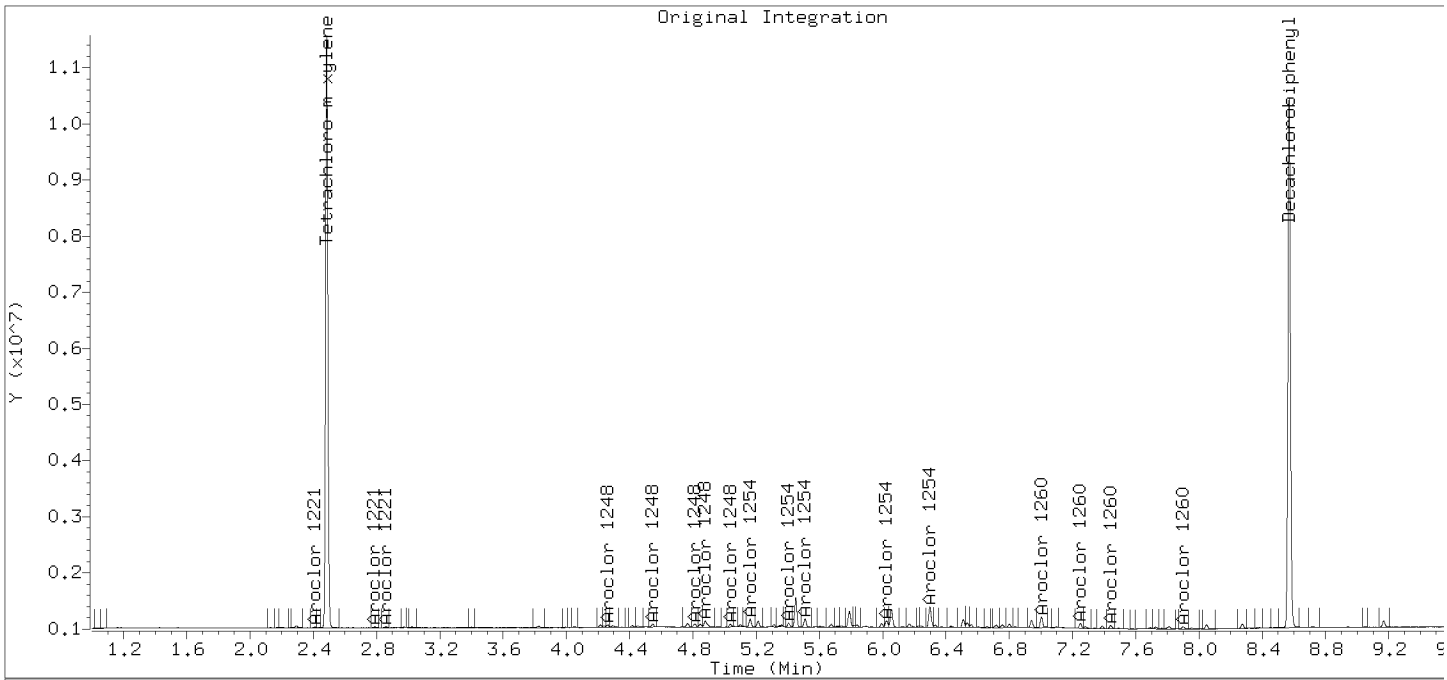
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

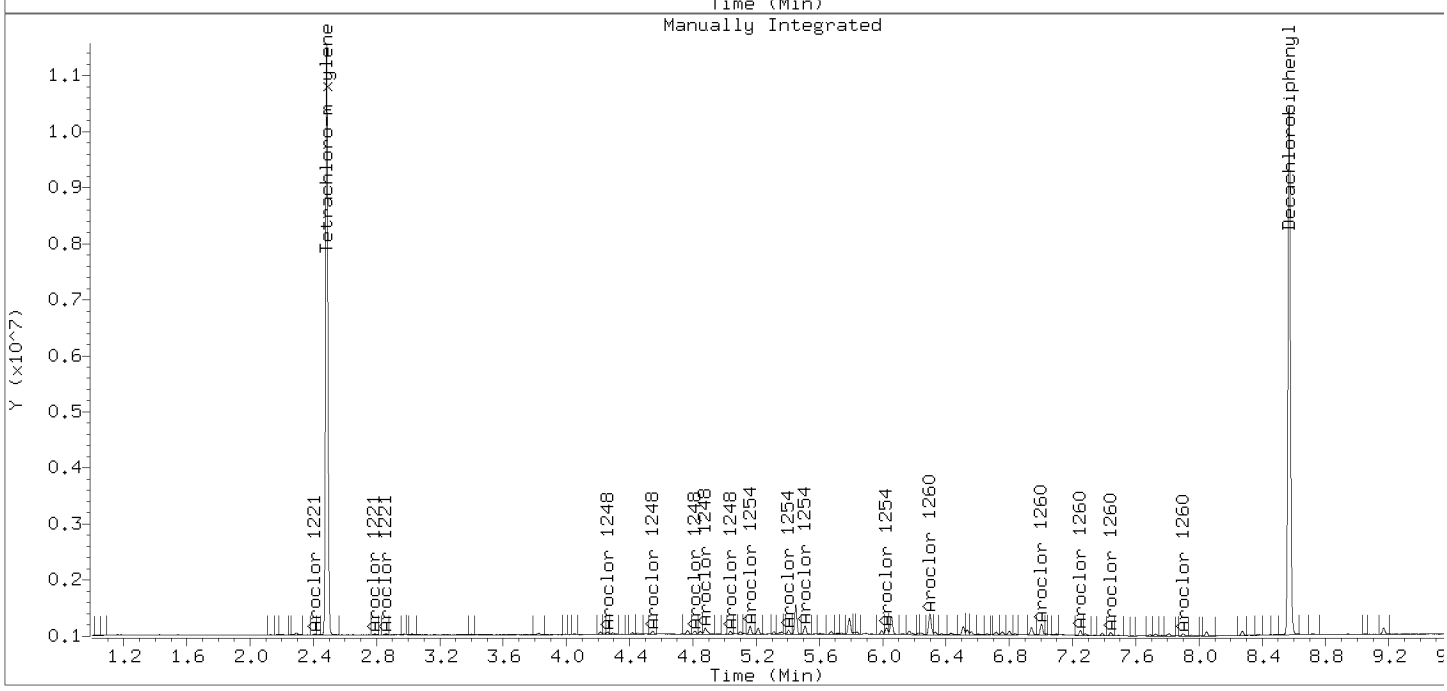
Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618030.D
Date : 16-MAR-2018 21:17
Client ID: FD1-170613-01-LMB-0
Sample Info: 40151613008,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 16-MAR-2018 21:17 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613008





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	43890	46802	BA
Aroclor 1248	43890	46802	BA
Aroclor 1248	43890	46802	BA
Aroclor 1248	43890	46802	BA
Aroclor 1248	43890	46802	BA
Aroclor 1254	151575	165233	BA
Aroclor 1254	151575	165233	BA
Aroclor 1254	151575	165233	BA
Aroclor 1254	151575	165233	BA
Aroclor 1254	151575	165233	BA
Aroclor 1260	424700	430229	CO
Aroclor 1260	424700	430229	CO
Aroclor 1260	424700	430229	CO
Aroclor 1260	424700	430229	CO
Aroclor 1260	424700	430229	CO
Tetrachloro-m-xylene	10485852	10485852	
Decachlorobiphenyl	10233549	10233549	

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SAMPLE NO.

FD1-170613-01-LMB-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151613
Date Extracted: 03/15/2018 07:20
Lab Sample ID: 40151613009
Date Analyzed: 03/16/2018 21:33
Lab File ID: 031618.B\031618031.D
Initial wt/vol: 9.9814 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)	22.1	J
11097-69-1	PCB-1254 (Aroclor 1254)	19.4	J
11096-82-5	PCB-1260 (Aroclor 1260)	20.4	J
1336-36-3	PCB, Total	61.9	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618031.D
Lab Smp Id: 40151613009 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 21:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613009,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 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	9.981	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.157	21320	13480	0.632	0.06		
1.426	13506	10692	0.792	0.04		
1.537	11350	11255	0.992	0.03		
2.197	13111	11350	0.866	0.04		
2.292	32778	23117	0.705	0.10		
2.410	35923	27927	0.777	0.11		
2.484	10713549	10517889	0.982	34.99	$ 2 Tetrachloro-m-xylene	
2.787	20844	17813	0.855	0.06		
2.858	26426	18217	0.689	0.08		
2.976	28556	19072	0.668	0.09		
3.024	18184	15110	0.831	0.05		
3.403	14044	12072	0.860	0.04		
3.509	11093	6335	0.571	0.03	5 Aroclor 1016	BA
3.825	72879	51631	0.708	0.23	5 Aroclor 1016	BA
3.994	17811	16936	0.951	0.05	5 Aroclor 1016	BA
4.053	26736	18471	0.691	0.08		
4.214	94521	79822	0.844	0.30		
4.241	21190	29461	1.390	0.06		
4.261	94640	84217	0.890	0.30	6 Aroclor 1248	CO
4.293	83339	54145	0.650	0.26		
4.418	69266	58397	0.843	0.22		
4.455	56498	39494	0.699	0.18		
4.545	110682	92411	0.835	0.35	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.589	19164	15845	0.827	0.06	
4.613	39686	18379	0.463	0.12	
4.766	62666	41166	0.657	0.20	
4.811	128805	111993	0.869	0.41	6 Aroclor 1248
4.846	103068	93153	0.904	0.33	
4.879	296562	206441	0.696	0.95	6 Aroclor 1248
4.955	49794	29626	0.595	0.16	
5.037	112332	101837	0.907	0.36	6 Aroclor 1248
5.056	25212	24754	0.982	0.08	
5.100	116293	78428	0.674	0.37	
5.162	231181	204619	0.885	0.74	7 Aroclor 1254
5.212	209443	186134	0.889	0.67	
5.284	30546	25127	0.823	0.09	
5.312	89519	78638	0.878	0.28	
5.361	100808	59961	0.595	0.32	
5.405	130910	107395	0.820	0.42	7 Aroclor 1254
5.451	1073941	1034958	0.964	3.46	
5.508	265379	221787	0.836	0.85	7 Aroclor 1254
5.575	27213	20138	0.740	0.08	
5.601	51594	34257	0.664	0.16	
5.673	112937	92417	0.818	0.36	
5.712	52568	40362	0.768	0.16	
5.739	82974	56432	0.680	0.26	
5.790	538471	441660	0.820	1.73	
5.823	98386	61604	0.626	0.31	
5.897	68768	34389	0.500	0.22	
5.929	30923	24189	0.782	0.09	
5.992	128502	118859	0.925	0.41	
6.024	224683	200434	0.892	0.72	7 Aroclor 1254
6.054	566068	510873	0.902	1.82	
6.120	25065	17225	0.687	0.08	
6.168	143244	89492	0.625	0.46	
6.227	37654	38881	1.033	0.12	
6.241	68185	50980	0.748	0.21	
6.298	655485	571602	0.872	2.11	8 Aroclor 1260
6.333	77006	68827	0.894	0.24	
6.371	34191	23428	0.685	0.11	
6.432	65639	43665	0.665	0.21	
6.508	261173	240963	0.923	0.84	
6.534	130404	123465	0.947	0.42	
6.560	103161	93391	0.905	0.33	
6.605	28665	20954	0.731	0.09	
6.659	31299	25958	0.829	0.10	
6.717	99623	82356	0.827	0.32	
6.755	93961	78813	0.839	0.30	
6.801	112528	97319	0.865	0.36	
6.840	35660	27344	0.767	0.11	
6.940	128220	117224	0.914	0.41	
7.003	316755	289430	0.914	1.02	8 Aroclor 1260
7.034	27918	31133	1.115	0.09	
7.100	35545	19665	0.553	0.11	
7.249	163924	138298	0.844	0.52	8 Aroclor 1260
7.278	66961	51955	0.776	0.21	
7.335	17217	12406	0.721	0.05	
7.389	84011	77264	0.920	0.27	
7.441	107057	88584	0.827	0.34	8 Aroclor 1260
7.487	36118	15384	0.426	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.575	13017	11480	0.882	0.04	
7.691	37863	33712	0.890	0.12	
7.727	49499	38028	0.768	0.15	
7.765	29929	23884	0.798	0.09	
7.813	56991	35102	0.616	0.18	
7.857	11112	10002	0.900	0.03	
7.900	71511	59441	0.831	0.23	8 Aroclor 1260
7.953	53806	37131	0.690	0.17	
8.047	43786	39566	0.904	0.14	
8.274	101698	88019	0.865	0.32	
8.373	50267	35802	0.712	0.16	
8.480	14223	13351	0.939	0.04	
8.569	10510613	9097033	0.866	33.89	$ 12 Decachlorobiphenyl
8.641	18196	13095	0.720	0.05	
8.723	17946	16293	0.908	0.05	
9.051	15741	11158	0.709	0.05	
9.166	242160	219567	0.907	0.78	
9.464	9602	7676	0.799	0.03	
	31011271	27831515		100.000	

Total unknown % area = 21

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618031.D
Lab Smp Id: 40151613009 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 21:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613009,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 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	9.981	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	10713549	0.08689	44			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Compound Not Detected.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	94639	0.04039	20	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	110681	0.02667	13	0.00- 20.00	116.95	CO
4.810	4.812	-0.002	128805	0.06345	32	0.00- 20.00	136.10	CO
4.878	4.879	-0.001	296561	0.05887	29	0.00- 20.00	313.36	CO
5.036	5.038	-0.002	112331	0.03130	16	0.00- 20.00	118.69	CO
		Average of Peak Concentrations =			22			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	231180	0.04416	22	0.00- 20.00	100.00(M)	BA
5.404	5.408	-0.004	130910	0.03044	15	0.00- 20.00	56.63	BA
5.508	5.510	-0.002	265378	0.03417	17	0.00- 20.00	114.79	BA
6.023	6.027	-0.004	224683	0.04614	23	0.00- 20.00	97.19	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			19			
8 Aroclor 1260					CAS #: 11096-82-5			
6.297	6.300	-0.003	655485	0.07396	37	0.00- 20.00	100.00(M)	CO
7.002	7.006	-0.004	316754	0.03163	16	0.00- 20.00	48.32	CO
7.248	7.251	-0.003	163923	0.03429	17	0.00- 20.00	25.01	CO
7.440	7.443	-0.003	107056	0.03672	18	0.00- 20.00	16.33	CO
7.899	7.901	-0.002	71510	0.02710	14	0.00- 20.00	10.91	CO
		Average of Peak Concentrations =			20			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	10510613	0.09593	48			

QC Flag Legend

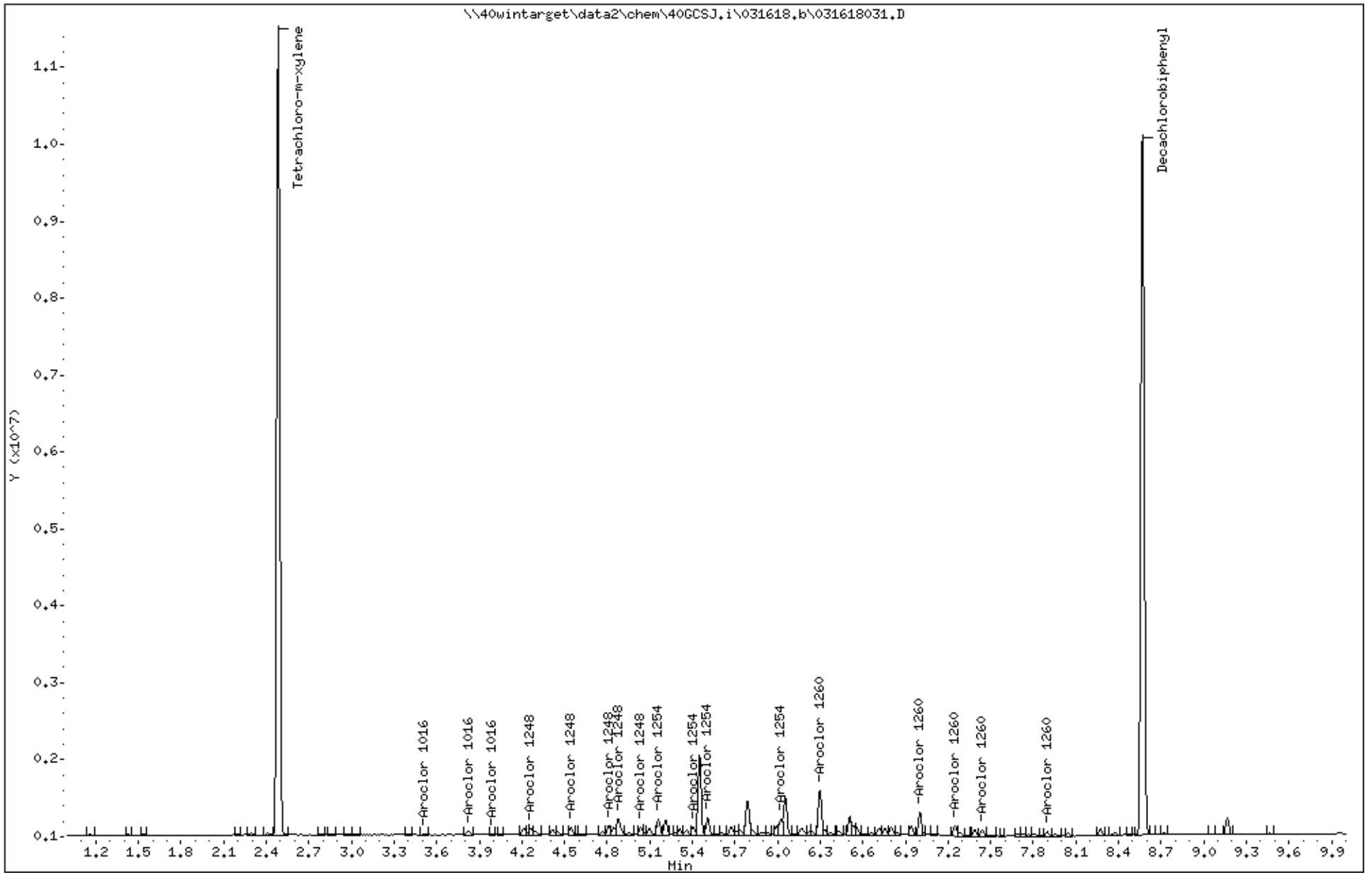
M - Compound response manually integrated.

Review Codes Legend

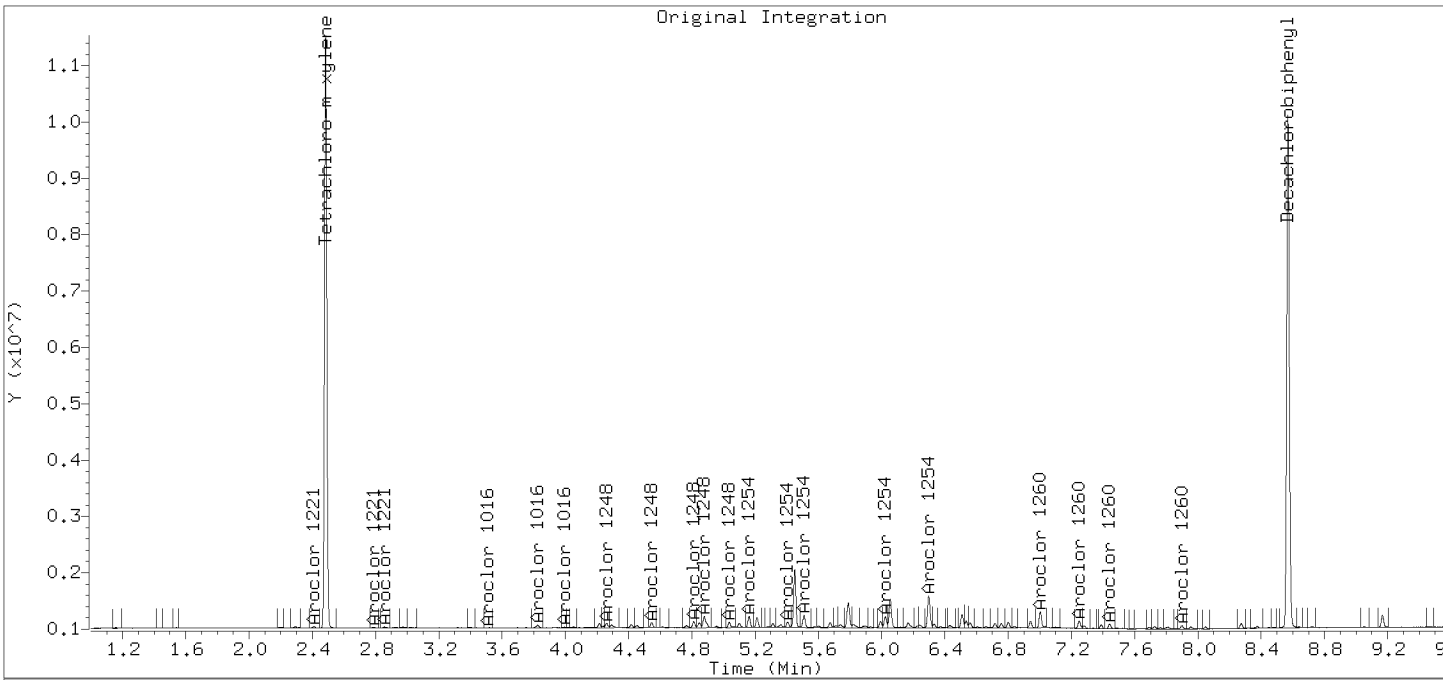
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

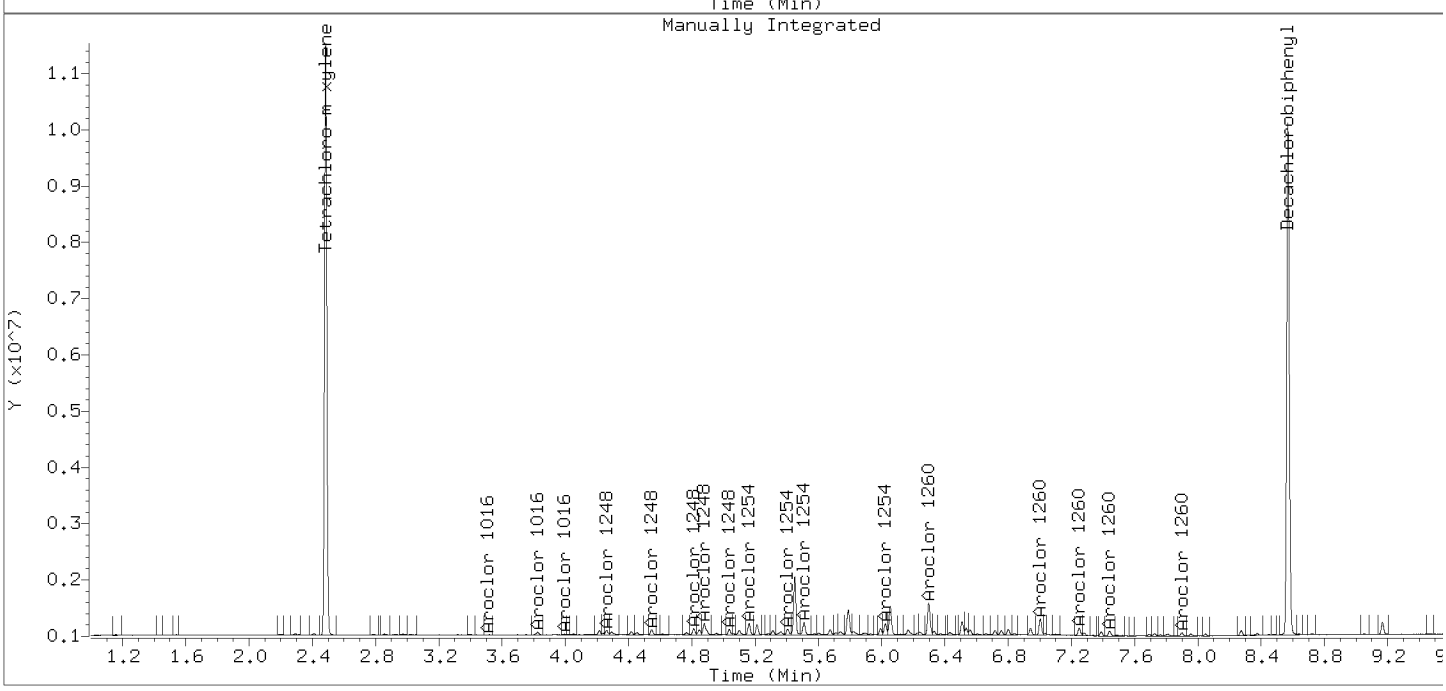
Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618031.D
Date : 16-MAR-2018 21:33
Client ID: FD1-170613-01-LMB-0
Sample Info: 40151613009,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 16-MAR-2018 21:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613009





Manually Integrated Compounds

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

Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	88034	94639	CO
Aroclor 1248	88034	94639	CO
Aroclor 1248	88034	94639	CO
Aroclor 1248	88034	94639	CO
Aroclor 1248	88034	94639	CO
Aroclor 1254	213088	231180	BA
Aroclor 1254	213088	231180	BA
Aroclor 1254	213088	231180	BA
Aroclor 1254	213088	231180	BA
Aroclor 1254	213088	231180	BA
Aroclor 1260	641773	655485	CO
Aroclor 1260	641773	655485	CO
Aroclor 1260	641773	655485	CO
Aroclor 1260	641773	655485	CO
Aroclor 1260	641773	655485	CO
Tetrachloro-m-xylene	10713549	10713549	
Decachlorobiphenyl	10510613	10510613	

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SAMPLE NO.

FD1-170613-01-LMB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151613
Date Extracted: 03/15/2018 07:20
Lab Sample ID: 40151613010
Date Analyzed: 03/16/2018 21:49
Lab File ID: 031618.B\031618032.D
Initial wt/vol: 9.9935 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
1336-36-3	PCB, Total	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618032.D
Lab Smp Id: 40151613010 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 21:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613010,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
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	9.993	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.032	11240	8175	0.727	0.04		
1.070	11024	7454	0.676	0.04		
2.195	16452	9966	0.606	0.06		
2.293	27044	18448	0.682	0.11		
2.408	19366	15880	0.820	0.08	1 Aroclor 1221	
2.485	10210938	9777084	0.958	42.91	$ 2 Tetrachloro-m-xylene	
2.786	22633	17992	0.795	0.09	1 Aroclor 1221	
2.859	31545	21111	0.669	0.13	1 Aroclor 1221	
2.973	17919	12184	0.680	0.07		
3.023	15125	11929	0.789	0.06		
3.399	15223	13455	0.884	0.06		
3.827	17928	12221	0.682	0.07		
3.989	12360	8219	0.665	0.05		
4.047	25123	16613	0.661	0.10		
4.216	28552	20609	0.722	0.12		
4.237	35315	33610	0.952	0.14		
4.262	22171	23535	1.062	0.09	6 Aroclor 1248	CO
4.290	29768	21829	0.733	0.12		
4.414	16974	13344	0.786	0.07		
4.544	35062	24707	0.705	0.14	6 Aroclor 1248	CO
4.767	68607	59510	0.867	0.28		
4.812	46202	32668	0.707	0.19	6 Aroclor 1248	CO
4.845	31950	27015	0.846	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.881	76650	53428	0.697	0.32	6 Aroclor 1248
5.035	33916	27697	0.817	0.14	6 Aroclor 1248
5.099	28352	24182	0.853	0.11	
5.123	19481	19513	1.002	0.08	
5.160	77799	61299	0.788	0.32	7 Aroclor 1254
5.211	62958	48782	0.775	0.26	
5.315	30089	24848	0.826	0.12	
5.346	54004	31856	0.590	0.22	
5.405	41446	33221	0.802	0.17	7 Aroclor 1254
5.449	179271	169869	0.948	0.75	
5.509	69626	54693	0.786	0.29	7 Aroclor 1254
5.675	33163	20964	0.632	0.13	
5.741	27881	17508	0.628	0.11	
5.790	130152	108965	0.837	0.54	
5.837	69074	47256	0.684	0.29	
5.886	20324	13534	0.666	0.08	
5.993	37736	29206	0.774	0.15	
6.021	56083	47727	0.851	0.23	7 Aroclor 1254
6.055	137898	116536	0.845	0.57	
6.121	24530	15139	0.617	0.10	
6.167	45876	25263	0.551	0.19	
6.235	30288	18137	0.599	0.12	
6.299	159113	130917	0.823	0.66	7 Aroclor 1254
6.334	26974	21650	0.803	0.11	
6.508	71674	61993	0.865	0.30	
6.537	34810	33250	0.955	0.14	
6.557	32207	26370	0.819	0.13	
6.716	36295	22220	0.612	0.15	
6.754	33944	23872	0.703	0.14	
6.801	37015	28079	0.759	0.15	
6.841	24684	14979	0.607	0.10	
6.940	59855	48091	0.803	0.25	
7.003	89171	75677	0.849	0.37	8 Aroclor 1260
7.083	23854	13428	0.563	0.10	
7.250	48110	39175	0.814	0.20	8 Aroclor 1260
7.282	37494	20852	0.556	0.15	
7.330	13394	11010	0.822	0.05	
7.389	34480	26704	0.774	0.14	
7.441	51726	32095	0.620	0.21	8 Aroclor 1260
7.582	11648	11182	0.960	0.04	
7.635	12188	7520	0.617	0.05	
7.693	16608	16580	0.998	0.06	
7.724	41298	33997	0.823	0.17	
7.812	32258	19471	0.604	0.13	
7.898	30775	23330	0.758	0.12	8 Aroclor 1260
7.955	13568	10818	0.797	0.05	
8.046	28820	26734	0.928	0.12	
8.273	93672	82431	0.880	0.39	
8.374	28644	18792	0.656	0.12	
8.569	10415250	9426289	0.905	44.15	$ 12 Decachlorobiphenyl
8.720	17720	10558	0.596	0.07	
8.938	17153	11044	0.644	0.07	
9.166	134804	112835	0.837	0.56	
9.465	14284	10403	0.728	0.06	
9.953	12286	9272	0.755	0.05	
	23790892	21678799		100.000	

Total unknown % area = 9.2

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618032.D
Lab Smp Id: 40151613010 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 21:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613010,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
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	9.993	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

Compound Not Detected.

$ 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	10210937	0.08282	41			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

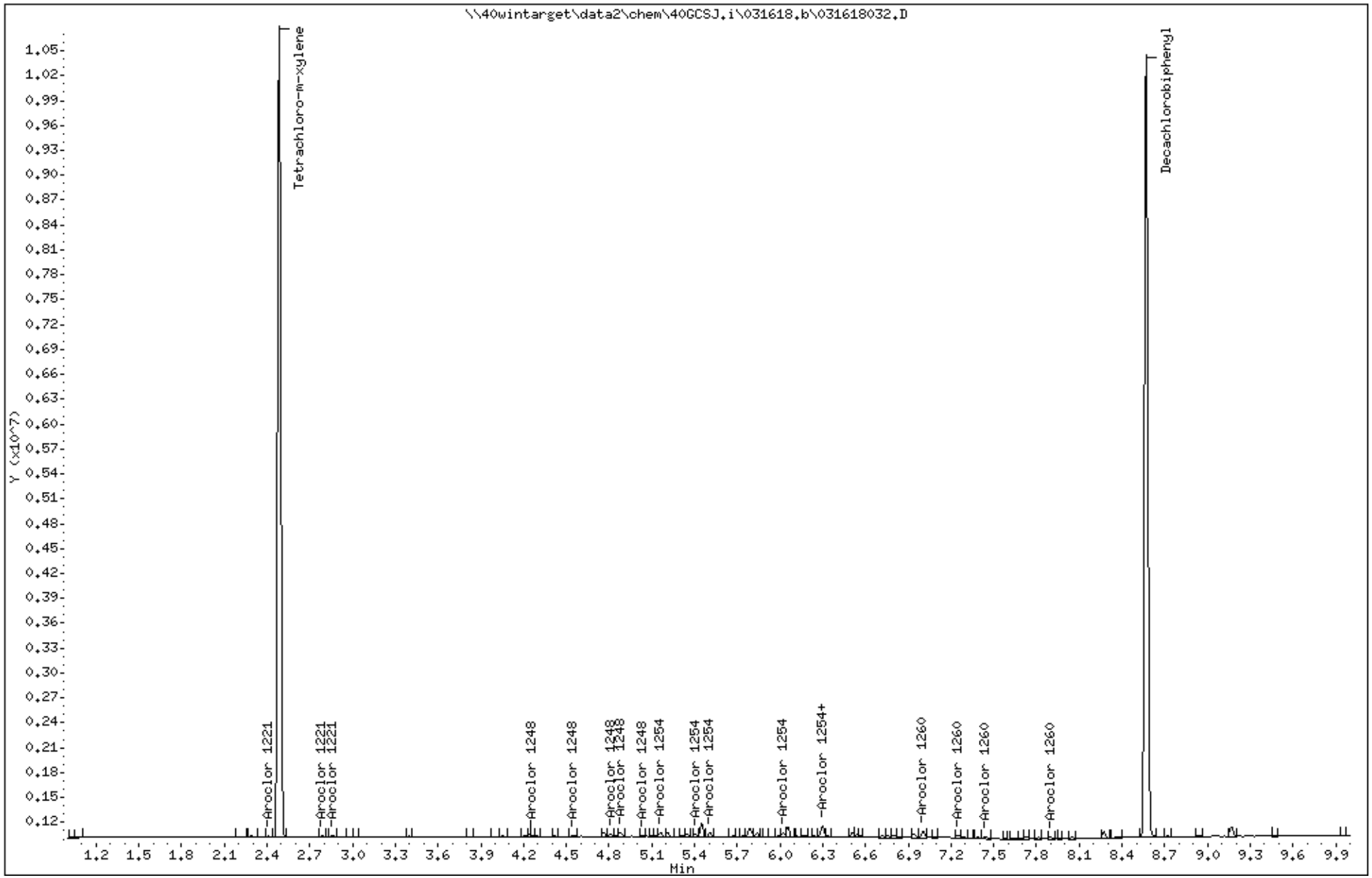
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
Qualifier signal(s) failed ratio test.								CO
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								BA
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10415249	0.09506	48			

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618032.D
Date : 16-MAR-2018 21:49
Client ID: FD1-170613-01-LMB-0
Sample Info: 40151613010,
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\031618.b/031618032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 16-MAR-2018 21:49 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613010

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	CO
Aroclor 1248	0	0	CO
Aroclor 1248	0	0	CO
Aroclor 1248	0	0	CO
Aroclor 1248	0	0	CO
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Tetrachloro-m-xylene	10210937	10210937	
Decachlorobiphenyl	10415249	10415249	

SAMPLE NO.

FD1-170613-01-LMB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151613
Date Extracted: 03/15/2018 07:20
Lab Sample ID: 40151613011
Date Analyzed: 03/16/2018 22:04
Lab File ID: 031618.B\031618033.D
Initial wt/vol: 10.0298 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
1336-36-3	PCB, Total	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618033.D
Lab Smp Id: 40151613011 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 22:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613011,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.030	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.032	13287	10576	0.796	0.05			
1.179	12701	10775	0.848	0.05			
1.535	11165	9139	0.819	0.04			
1.822	9340	6233	0.667	0.03		1 Aroclor 1221	
2.005	10517	8468	0.805	0.04			
2.170	10239	11598	1.133	0.04			
2.198	13643	10441	0.765	0.05			
2.290	30485	30359	0.996	0.12			
2.316	12936	15146	1.171	0.05			
2.408	19196	12039	0.627	0.07		1 Aroclor 1221	
2.483	10593503	10387420	0.981	42.44	$	2 Tetrachloro-m-xylene	
2.786	17734	17350	0.978	0.07		1 Aroclor 1221	
2.854	31931	20776	0.651	0.12		1 Aroclor 1221	
2.920	13490	7959	0.590	0.05			
3.022	14324	13292	0.928	0.05			
3.395	12616	9062	0.718	0.05			
3.828	17873	12991	0.727	0.07			
4.049	17449	14188	0.813	0.06			
4.214	40187	32101	0.799	0.15			
4.240	41082	42007	1.023	0.16			
4.261	37346	36228	0.970	0.14		6 Aroclor 1248	BA
4.293	50315	29361	0.584	0.19			
4.417	27350	20485	0.749	0.10			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.450	16564	14895	0.899	0.06	
4.546	58840	41600	0.707	0.23	6 Aroclor 1248
4.765	88123	67871	0.770	0.34	
4.813	79744	64696	0.811	0.31	6 Aroclor 1248
4.848	40924	34910	0.853	0.16	
4.879	145761	112789	0.774	0.57	6 Aroclor 1248
4.957	18821	12826	0.681	0.07	
5.036	54885	48970	0.892	0.21	6 Aroclor 1248
5.069	30358	21134	0.696	0.12	
5.100	57186	29859	0.522	0.22	
5.162	99458	80461	0.809	0.39	7 Aroclor 1254
5.210	88560	75593	0.854	0.35	
5.315	44186	32952	0.746	0.17	
5.345	77645	45580	0.587	0.30	
5.405	50449	41425	0.821	0.20	7 Aroclor 1254
5.450	440858	424060	0.962	1.74	
5.509	90174	77663	0.861	0.35	7 Aroclor 1254
5.602	29465	16131	0.547	0.11	
5.675	29564	23771	0.804	0.11	
5.710	20718	13564	0.655	0.08	
5.738	28005	21996	0.785	0.11	
5.791	181175	157174	0.868	0.71	
5.826	20068	28732	1.432	0.07	
5.838	68771	59819	0.870	0.27	
5.992	44330	40953	0.924	0.17	
6.022	82456	79018	0.958	0.32	7 Aroclor 1254
6.054	192268	165604	0.861	0.76	
6.121	30969	20231	0.653	0.12	
6.166	35835	28785	0.803	0.14	
6.298	215393	189804	0.881	0.85	7 Aroclor 1254
6.333	27055	23506	0.869	0.10	
6.372	14861	11142	0.750	0.05	
6.433	27553	14097	0.512	0.10	
6.509	89862	81394	0.906	0.35	
6.534	43363	41524	0.958	0.17	
6.560	36433	29111	0.799	0.14	
6.659	17628	10895	0.618	0.06	
6.716	29076	21673	0.745	0.11	
6.758	29179	22506	0.771	0.11	
6.801	45421	35695	0.786	0.18	
6.837	22671	13434	0.593	0.08	
6.942	70615	58539	0.829	0.28	
7.004	113266	100442	0.887	0.44	8 Aroclor 1260
7.036	9615	13011	1.353	0.03	
7.084	26322	17687	0.672	0.10	
7.250	70774	54808	0.774	0.28	8 Aroclor 1260
7.282	40694	25495	0.627	0.16	
7.390	36712	30722	0.837	0.14	
7.442	59427	37002	0.623	0.23	8 Aroclor 1260
7.578	11298	9293	0.823	0.04	
7.636	14110	7866	0.557	0.05	
7.690	17985	17078	0.950	0.07	
7.727	44602	34233	0.768	0.17	
7.807	33087	22614	0.683	0.13	
7.898	34650	27326	0.789	0.13	8 Aroclor 1260
7.953	24297	15976	0.658	0.09	
8.047	29142	25767	0.884	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.274	89727	80234	0.894	0.35	
8.377	27877	17574	0.630	0.11	
8.570	10401628	9447919	0.908	41.25	$ 12 Decachlorobiphenyl
8.722	10943	8853	0.809	0.04	
8.936	16483	9592	0.582	0.06	
9.168	108052	97668	0.904	0.42	
9.463	18113	10910	0.602	0.07	
	25212787	23316446		100.000	

Total unknown % area = 11

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618033.D
Lab Smp Id: 40151613011 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 16-MAR-2018 22:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613011,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.030	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Qualifier signal(s) failed ratio test.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.483	2.484	-0.001	10593502	0.08592		43		

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

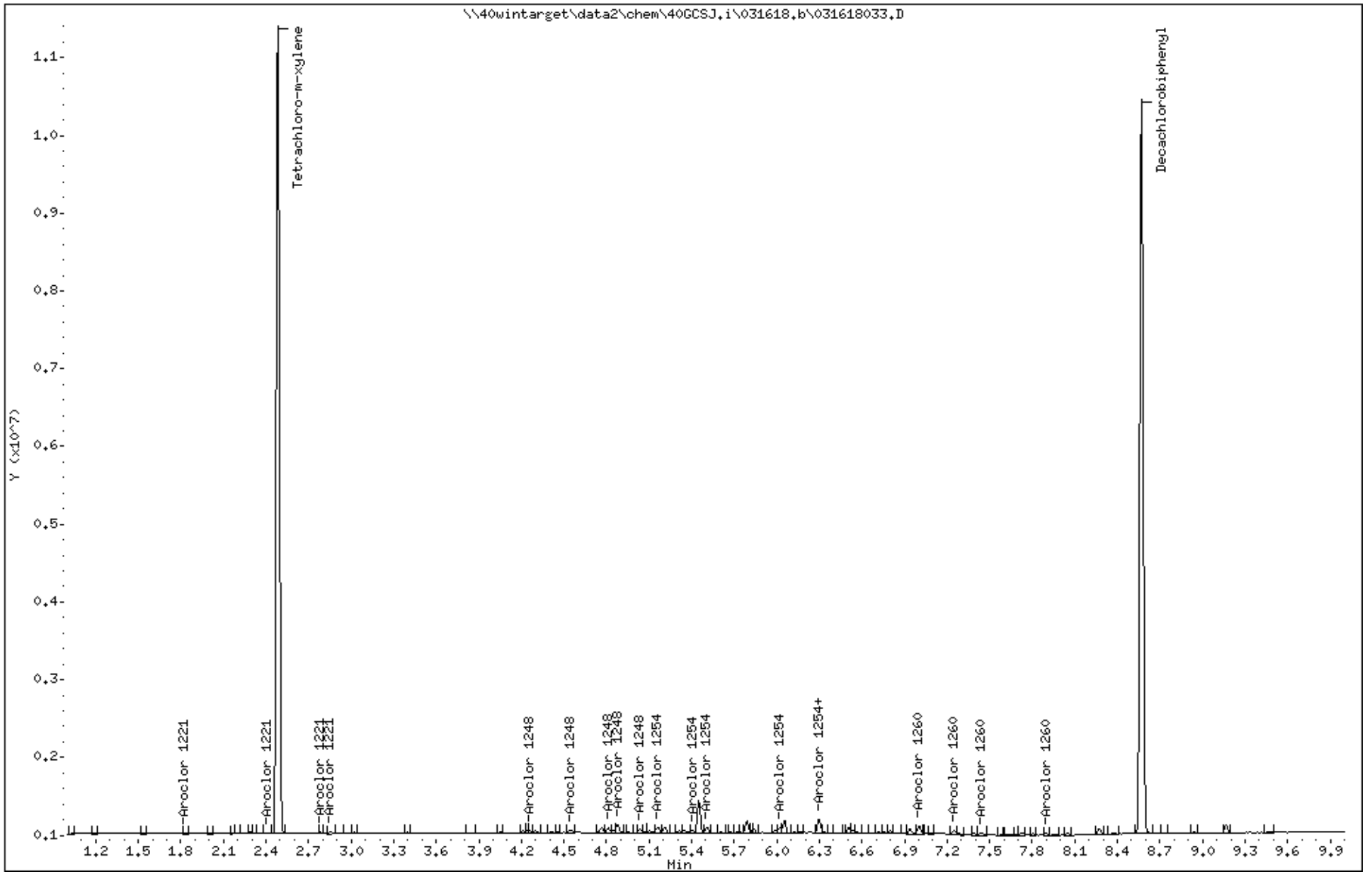
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
Qualifier signal(s) failed ratio test.								BA
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10401628	0.09494	47			

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\031618.b\031618033.D
Date : 16-MAR-2018 22:04
Client ID: FD1-170613-01-LMB-0
Sample Info: 40151613011,
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\031618.b/031618033.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 16-MAR-2018 22:04 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613011

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	BA
Aroclor 1248	0	0	BA
Aroclor 1248	0	0	BA
Aroclor 1248	0	0	BA
Aroclor 1248	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Tetrachloro-m-xylene	10593502	10593502	
Decachlorobiphenyl	10401628	10401628	

SAMPLE NO.

FD1-170613-01-LMB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151613
Date Extracted: 03/23/2018 07:10
Lab Sample ID: 40151613012
Date Analyzed: 03/27/2018 16:17
Lab File ID: 032718.B\032718013.D
Initial wt/vol: 9.978 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
1336-36-3	PCB, Total	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718013.D
Lab Smp Id: 40151613012 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 27-MAR-2018 16:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613012,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
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	9.978	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.157	11047	9305	0.842	0.04		
1.432	10860	9597	0.884	0.04		
2.127	13406	9933	0.741	0.05		
2.169	14187	12188	0.859	0.05		
2.199	57415	29836	0.520	0.23		
2.291	28775	26901	0.935	0.11		
2.316	23075	22833	0.990	0.09		
2.409	27880	20500	0.735	0.11		
2.485	10976056	10581684	0.964	44.51	$ 2 Tetrachloro-m-xylene	
2.786	24140	16621	0.689	0.09		
2.861	19352	12240	0.632	0.07		
3.016	9532	7857	0.824	0.03		
3.828	28135	18712	0.665	0.11		
4.216	34990	29660	0.848	0.14		
4.240	26429	30905	1.169	0.10		
4.261	37104	31387	0.846	0.14	6 Aroclor 1248	CO
4.292	20502	21194	1.034	0.08		
4.419	25615	22292	0.870	0.10		
4.451	24832	16581	0.668	0.09		
4.546	50615	37403	0.739	0.20	6 Aroclor 1248	CO
4.607	16930	11779	0.696	0.06		
4.767	33825	27609	0.816	0.13		
4.812	55613	44695	0.804	0.22	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.848	36661	32803	0.895	0.14	
4.880	119979	79252	0.661	0.48	6 Aroclor 1248
4.956	22249	13540	0.609	0.08	
5.036	44926	41048	0.914	0.18	6 Aroclor 1248
5.057	9474	11662	1.231	0.03	
5.100	47243	26454	0.560	0.18	
5.162	92246	81529	0.884	0.37	7 Aroclor 1254
5.213	79733	66545	0.835	0.32	
5.312	31207	26377	0.845	0.12	
5.350	44564	27461	0.616	0.17	
5.404	53224	44621	0.838	0.21	7 Aroclor 1254
5.452	284172	257260	0.905	1.14	
5.510	100124	85655	0.855	0.40	7 Aroclor 1254
5.605	20977	14615	0.697	0.08	
5.675	36056	31399	0.871	0.14	
5.710	17544	15330	0.874	0.07	
5.744	29192	19164	0.656	0.11	
5.789	222690	147872	0.664	0.89	
5.994	42589	37570	0.882	0.17	
6.026	77377	66272	0.856	0.31	7 Aroclor 1254
6.055	192170	165860	0.863	0.77	
6.167	48849	30971	0.634	0.19	
6.229	11576	13701	1.184	0.04	
6.243	22769	16552	0.727	0.09	
6.299	210389	176182	0.837	0.84	7 Aroclor 1254
6.332	29808	24818	0.833	0.11	
6.431	24725	15808	0.639	0.09	
6.509	88710	80831	0.911	0.35	
6.535	42696	41998	0.984	0.17	
6.563	47269	32113	0.679	0.18	
6.657	11772	11367	0.966	0.04	
6.718	35294	27010	0.765	0.14	
6.760	37021	30058	0.812	0.14	
6.804	35668	28872	0.809	0.14	
6.841	14604	13346	0.914	0.05	
6.942	70543	58008	0.822	0.28	
7.006	111070	98315	0.885	0.44	8 Aroclor 1260
7.032	10537	13913	1.320	0.04	
7.127	19348	10432	0.539	0.07	
7.251	56973	49154	0.863	0.22	8 Aroclor 1260
7.280	43280	25467	0.588	0.17	
7.332	19959	14492	0.726	0.08	
7.389	30499	29508	0.967	0.12	
7.443	46015	36628	0.796	0.18	8 Aroclor 1260
7.579	14615	13266	0.908	0.05	
7.692	15625	17184	1.100	0.06	
7.728	48664	39911	0.820	0.19	
7.805	46972	26077	0.555	0.18	
7.899	34527	24920	0.722	0.13	8 Aroclor 1260
7.955	19281	12840	0.666	0.07	
8.048	34204	30952	0.905	0.13	
8.276	91547	77053	0.842	0.36	
8.377	30255	21325	0.705	0.12	
8.571	10142943	8545268	0.842	40.74	$ 12 Decachlorobiphenyl
8.722	16999	9018	0.531	0.06	
8.944	16750	12848	0.767	0.06	
9.169	84450	70024	0.829	0.33	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.461	21089	12786	0.606	0.08	
9.961	30354	18736	0.617	0.12	
	24892360	22155753		100.000	

Total unknown % area = 10

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718013.D
Lab Smp Id: 40151613012 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 27-MAR-2018 16:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613012,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
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	9.978	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	10976055	0.08902	45			
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

Qualifier signal(s) failed ratio test. CO

---

7 Aroclor 1254 CAS #: 11097-69-1

Qualifier signal(s) failed ratio test. BA

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8 Aroclor 1260 CAS #: 11096-82-5

Qualifier signal(s) failed ratio test. CO

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

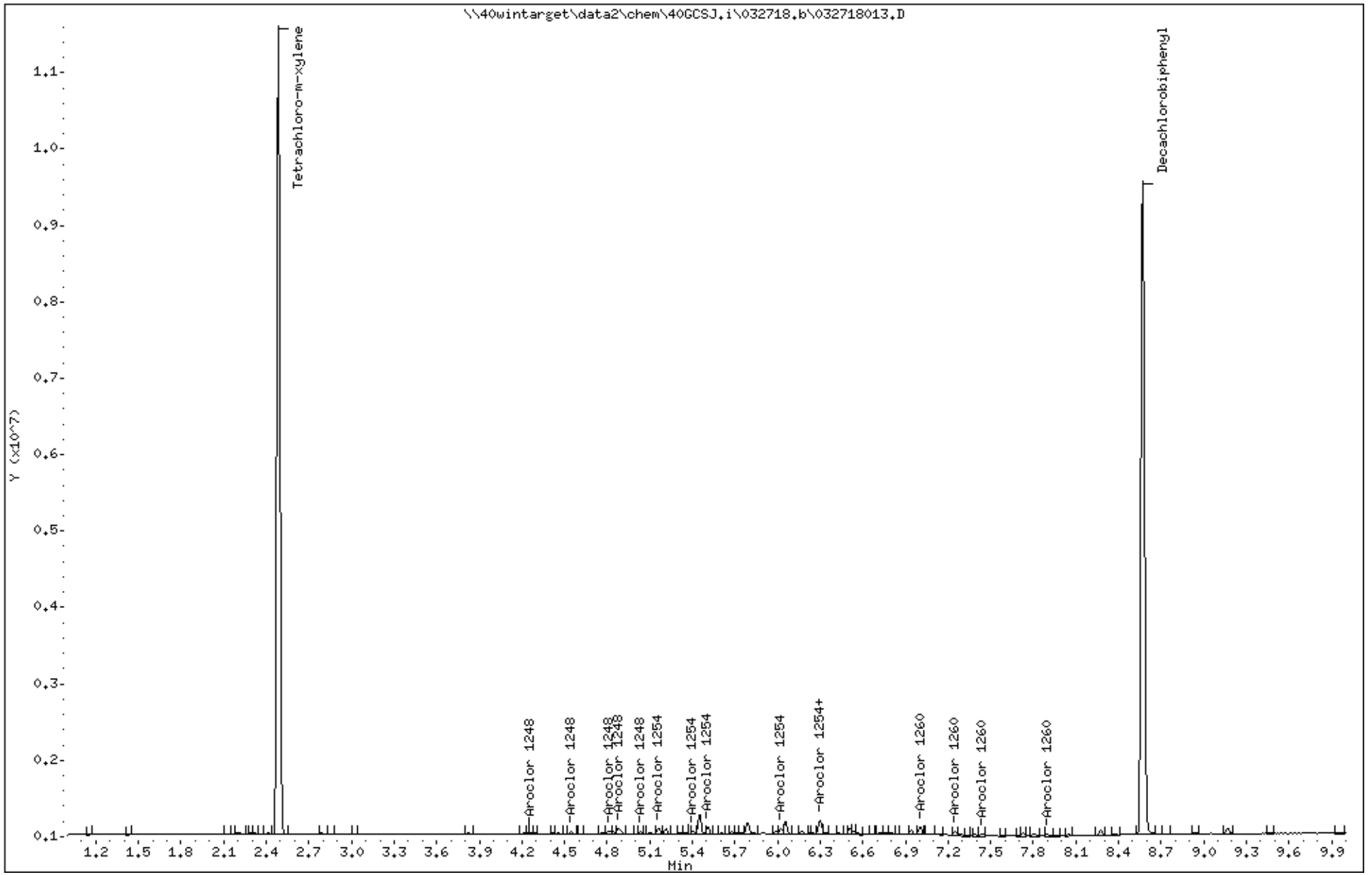
8.570	8.571	-0.001	10142942	0.09258	46			

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718013.D
Date : 27-MAR-2018 16:17
Client ID: FD1-170613-01-LMB-0
Sample Info: 40151613012,
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\032718.b/032718013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 16:17 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613012

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	CO
Aroclor 1248	0	0	CO
Aroclor 1248	0	0	CO
Aroclor 1248	0	0	CO
Aroclor 1248	0	0	CO
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Tetrachloro-m-xylene	10976055	10976055	
Decachlorobiphenyl	10142942	10142942	

SAMPLE NO.

FD1-170613-01-LMB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151613
Date Extracted: 03/23/2018 07:10
Lab Sample ID: 40151613013
Date Analyzed: 03/27/2018 16:49
Lab File ID: 032718.B\032718015.D
Initial wt/vol: 9.974 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
1336-36-3	PCB, Total	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718015.D
Lab Smp Id: 40151613013 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 27-MAR-2018 16:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613013,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.974	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.036	13428	9147	0.681	0.05		
1.184	27919	16704	0.598	0.11		
1.428	12330	9404	0.763	0.05		
1.533	9644	7607	0.789	0.04		
2.199	44781	28363	0.633	0.18		
2.410	10566	9453	0.895	0.04	1 Aroclor 1221	
2.485	10897587	10487115	0.962	46.42	$ 2 Tetrachloro-m-xylene	
2.789	21568	17430	0.808	0.09	1 Aroclor 1221	
2.859	25051	15189	0.606	0.10	1 Aroclor 1221	
2.972	16004	10402	0.650	0.06		
4.216	17278	19047	1.102	0.07		
4.239	53388	38970	0.730	0.22	6 Aroclor 1248	
4.292	14795	13501	0.913	0.06		
4.417	15867	15825	0.997	0.06		
4.451	10672	11162	1.046	0.04		
4.548	21823	21698	0.994	0.09	6 Aroclor 1248	
4.603	13999	10401	0.743	0.05		
4.766	9859	8711	0.884	0.04		
4.812	36446	34950	0.959	0.15	6 Aroclor 1248	
4.847	32604	30892	0.947	0.13		
4.878	69616	47977	0.689	0.29	6 Aroclor 1248	
5.038	31258	24976	0.799	0.13	6 Aroclor 1248	
5.103	16639	14115	0.848	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.163	41966	39993	0.953	0.17	7 Aroclor 1254
5.212	50562	47942	0.948	0.21	
5.277	9341	8821	0.944	0.03	
5.313	28974	27794	0.959	0.12	
5.347	45033	26011	0.578	0.19	
5.405	24928	23840	0.956	0.10	7 Aroclor 1254
5.452	301980	297601	0.985	1.27	
5.509	47195	39633	0.840	0.19	7 Aroclor 1254
5.570	13117	8622	0.657	0.05	
5.672	14948	13981	0.935	0.06	
5.789	102392	84363	0.824	0.43	
5.897	12650	11274	0.891	0.05	
5.994	24309	22057	0.907	0.10	
6.025	41288	36809	0.892	0.17	7 Aroclor 1254
6.056	144107	126250	0.876	0.60	
6.167	30136	17514	0.581	0.12	
6.298	138865	127026	0.915	0.58	7 Aroclor 1254
6.436	14629	11277	0.771	0.06	
6.509	62675	54526	0.870	0.26	
6.537	23730	26565	1.119	0.10	
6.559	34774	23350	0.671	0.14	
6.716	22575	19564	0.867	0.09	
6.756	21217	17459	0.823	0.08	
6.799	24941	21831	0.875	0.10	
6.942	45412	37748	0.831	0.19	
7.003	84490	72951	0.863	0.35	8 Aroclor 1260
7.124	23217	11729	0.505	0.09	
7.250	43952	32468	0.739	0.18	8 Aroclor 1260
7.390	27325	23590	0.863	0.11	
7.443	34646	29342	0.847	0.14	8 Aroclor 1260
7.578	10459	8963	0.857	0.04	
7.693	18305	15461	0.845	0.07	
7.727	45416	40168	0.884	0.19	
7.805	29518	18962	0.642	0.12	
7.903	24564	19232	0.783	0.10	8 Aroclor 1260
7.953	12316	8919	0.724	0.05	
8.048	25776	22708	0.881	0.10	
8.274	94676	82503	0.871	0.40	
8.320	12218	9310	0.762	0.05	
8.375	29926	18499	0.618	0.12	
8.570	10235362	8648846	0.845	43.28	$ 12 Decachlorobiphenyl
8.940	15961	12165	0.762	0.06	
9.169	101940	91602	0.899	0.43	
9.468	15702	10644	0.678	0.06	
9.955	15233	12739	0.836	0.06	
	23645870	21265691		100.000	

Total unknown % area = 7.2

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718015.D
Lab Smp Id: 40151613013 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 27-MAR-2018 16:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613013,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.974	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.484	2.484	0.000	10897587	0.08839	44			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

Qualifier signal(s) failed ratio test.

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7 Aroclor 1254 CAS #: 11097-69-1

Qualifier signal(s) failed ratio test.

---

8 Aroclor 1260 CAS #: 11096-82-5

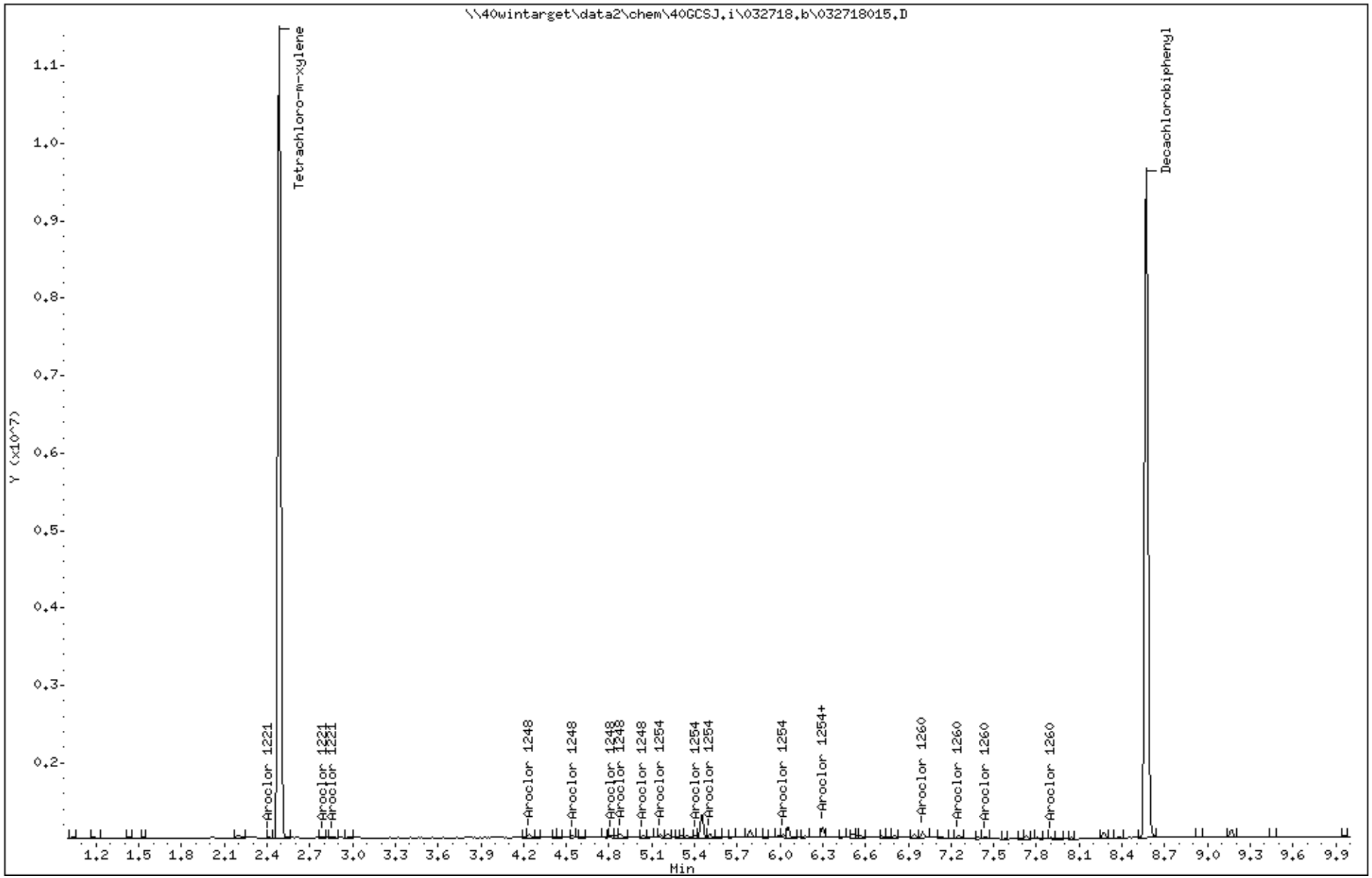
Qualifier signal(s) failed ratio test.

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	10235361	0.09342	47			

Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718015.D
Date : 27-MAR-2018 16:49
Client ID: FD1-170613-01-LMB-0
Sample Info: 40151613013,
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\032718.b/032718015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 16:49 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613013

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	10897587	10897587	
Decachlorobiphenyl	10235361	10235361	

SAMPLE NO.

FD1-170613-01-SMB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION
Date Received: 06/14/2017 09:50
Matrix: Tissue SDG No.: 40151613
Date Extracted: 03/28/2018 08:09
Lab Sample ID: 40151613014
Date Analyzed: 03/30/2018 20:48
Lab File ID: 033018.B\033018023.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)	13.3	J
1336-36-3	PCB, Total	13.3	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018023.D
Lab Smp Id: 40151613014 Client Smp ID: FD1-170613-01-SMB-0
Inj Date : 30-MAR-2018 20:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613014,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 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	10.000	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	12075	10489	0.869	0.04		
2.134	12264	9559	0.779	0.04		
2.199	110228	53772	0.488	0.42		
2.258	10869	12979	1.194	0.04		
2.293	47624	37143	0.780	0.18		
2.313	17356	16547	0.953	0.06		
2.484	9922119	9608650	0.968	38.59	$ 2 Tetrachloro-m-xylene	
2.786	22988	15744	0.685	0.08		
2.862	24283	15610	0.643	0.09		
3.021	35592	29016	0.815	0.13		
3.504	13561	9233	0.681	0.05		
4.212	24343	21356	0.877	0.09		
4.236	26884	25877	0.963	0.10		
4.259	25700	23132	0.900	0.09	6 Aroclor 1248	CO
4.292	36792	21332	0.580	0.14		
4.414	26277	17826	0.678	0.10		
4.454	23062	16101	0.698	0.08		
4.507	39193	21598	0.551	0.15		
4.545	52217	30622	0.586	0.20	6 Aroclor 1248	CO
4.765	67739	46292	0.683	0.26		
4.811	56240	42336	0.753	0.21	6 Aroclor 1248	CO
4.848	36333	31130	0.857	0.13		
4.879	112735	68307	0.606	0.43	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.953	21379	16219	0.759	0.08	
5.038	44409	35681	0.803	0.17	6 Aroclor 1248
5.065	19195	16045	0.836	0.07	
5.101	61145	32491	0.531	0.23	
5.162	110189	85586	0.777	0.42	7 Aroclor 1254
5.213	82318	69287	0.842	0.31	
5.258	25742	19763	0.768	0.09	
5.312	38469	31919	0.830	0.14	
5.348	24260	24300	1.002	0.09	
5.361	36399	31586	0.868	0.13	
5.408	58299	48657	0.835	0.22	7 Aroclor 1254
5.451	302276	276185	0.914	1.16	
5.510	108796	85854	0.789	0.41	7 Aroclor 1254
5.573	20575	15880	0.772	0.07	
5.605	29538	17725	0.600	0.11	
5.675	48387	40756	0.842	0.18	
5.708	36392	20587	0.566	0.13	
5.739	30310	24543	0.810	0.11	
5.790	219899	181750	0.827	0.84	
5.820	51315	28935	0.564	0.19	
5.887	33799	17602	0.521	0.12	
5.992	61473	50157	0.816	0.23	
6.024	96780	82242	0.850	0.37	7 Aroclor 1254
6.055	221994	222422	1.002	0.85	
6.082	1313972	1138436	0.866	5.04	
6.170	89507	47736	0.533	0.34	
6.226	52537	29011	0.552	0.20	
6.298	338999	241937	0.714	1.30	8 Aroclor 1260
6.329	41216	33829	0.821	0.15	
6.366	22392	15779	0.705	0.08	
6.431	41537	25297	0.609	0.15	
6.483	163863	157481	0.961	0.62	
6.509	149792	133941	0.894	0.57	
6.533	62274	57566	0.924	0.23	
6.562	65895	52403	0.795	0.25	
6.607	10726	9137	0.852	0.04	
6.661	23849	18133	0.760	0.09	
6.718	59047	45972	0.779	0.22	
6.757	66340	50100	0.755	0.25	
6.802	57945	47363	0.817	0.22	
6.838	29289	21152	0.722	0.11	
6.941	111960	99248	0.886	0.43	
7.004	199101	176537	0.887	0.76	8 Aroclor 1260
7.031	13973	16742	1.198	0.05	
7.098	17031	14862	0.873	0.06	
7.126	39624	17947	0.453	0.15	
7.250	100591	77016	0.766	0.38	8 Aroclor 1260
7.280	54439	34697	0.637	0.20	
7.337	18408	13806	0.750	0.07	
7.389	74149	63825	0.861	0.28	
7.442	89732	71036	0.792	0.34	8 Aroclor 1260
7.579	12063	11371	0.943	0.04	
7.621	15718	11466	0.729	0.06	
7.657	17729	11358	0.641	0.06	
7.691	26189	25788	0.985	0.10	
7.726	50658	37894	0.748	0.19	
7.758	19632	16549	0.843	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.811	56973	40652	0.714	0.21	
7.899	61110	52052	0.852	0.23	8 Aroclor 1260
7.953	28257	19073	0.675	0.10	
8.047	61862	53710	0.868	0.23	
8.273	98865	88749	0.898	0.37	
8.375	27261	22736	0.834	0.10	
8.570	9422029	8042402	0.854	36.20	$ 12 Decachlorobiphenyl
8.721	32601	21910	0.672	0.12	
8.839	10189	6058	0.595	0.03	
8.941	13375	9720	0.727	0.05	
9.056	18709	11762	0.629	0.07	
9.167	201880	178876	0.886	0.77	
	26023097	23033938		100.000	

Total unknown % area = 20

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018023.D
Lab Smp Id: 40151613014 Client Smp ID: FD1-170613-01-SMB-0
Inj Date : 30-MAR-2018 20:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40151613014,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 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	10.000	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	9922119	0.08047	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			
Qualifier signal(s) failed ratio test.								CO
7 Aroclor 1254					CAS #: 11097-69-1			
Qualifier signal(s) failed ratio test.								BA
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	338999	0.03825	19	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	199100	0.01988	9.9	0.00- 20.00	58.73	CO
7.249	7.251	-0.002	100590	0.02104	10	0.00- 20.00	29.67	CO
7.441	7.443	-0.002	89731	0.03078	15	0.00- 20.00	26.47	CO
7.898	7.901	-0.003	61110	0.02316	12	0.00- 20.00	18.03	CO
Average of Peak Concentrations =					13			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9422028	0.08600	43			

QC Flag Legend

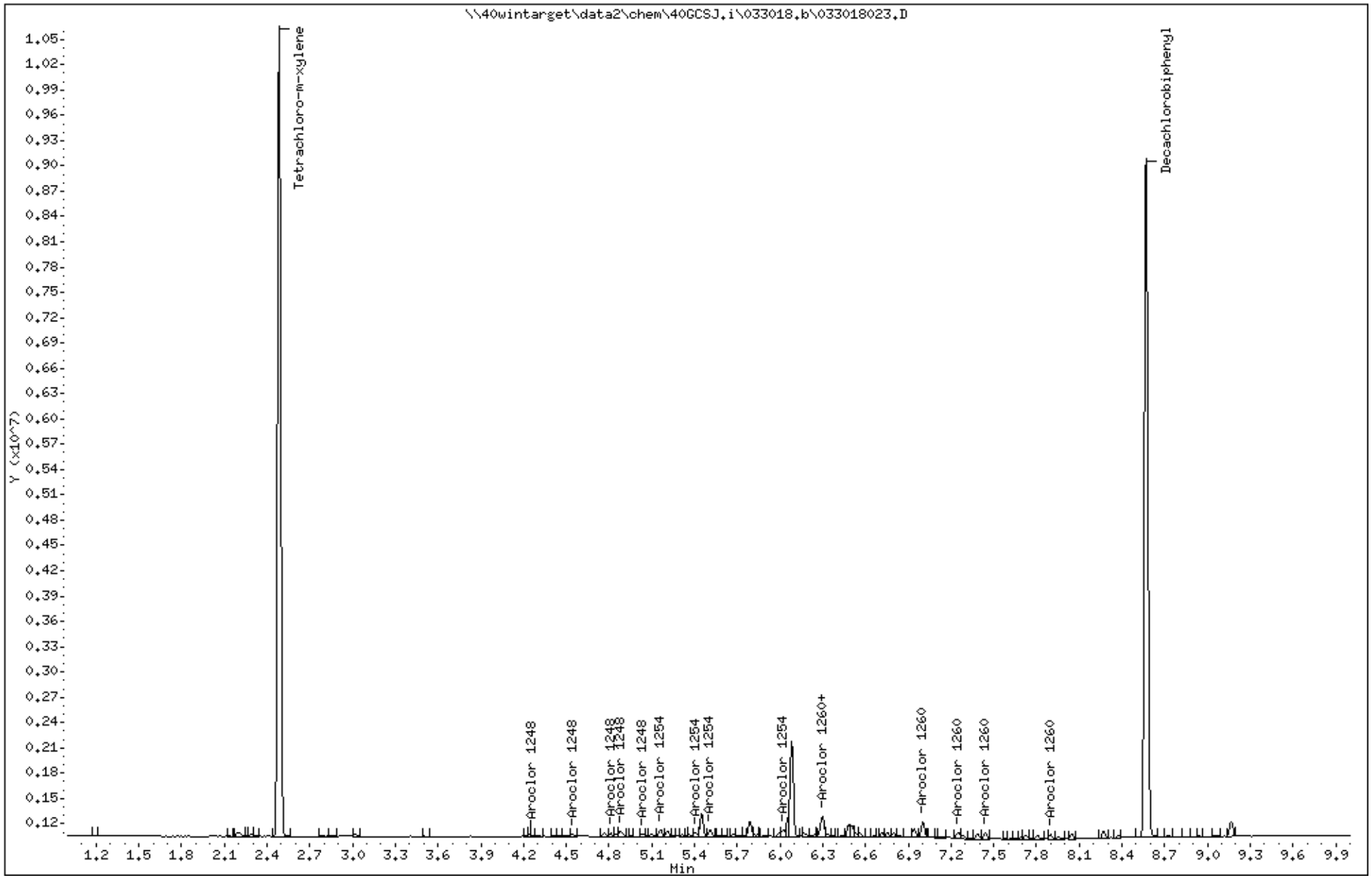
M - Compound response manually integrated.

Review Codes Legend

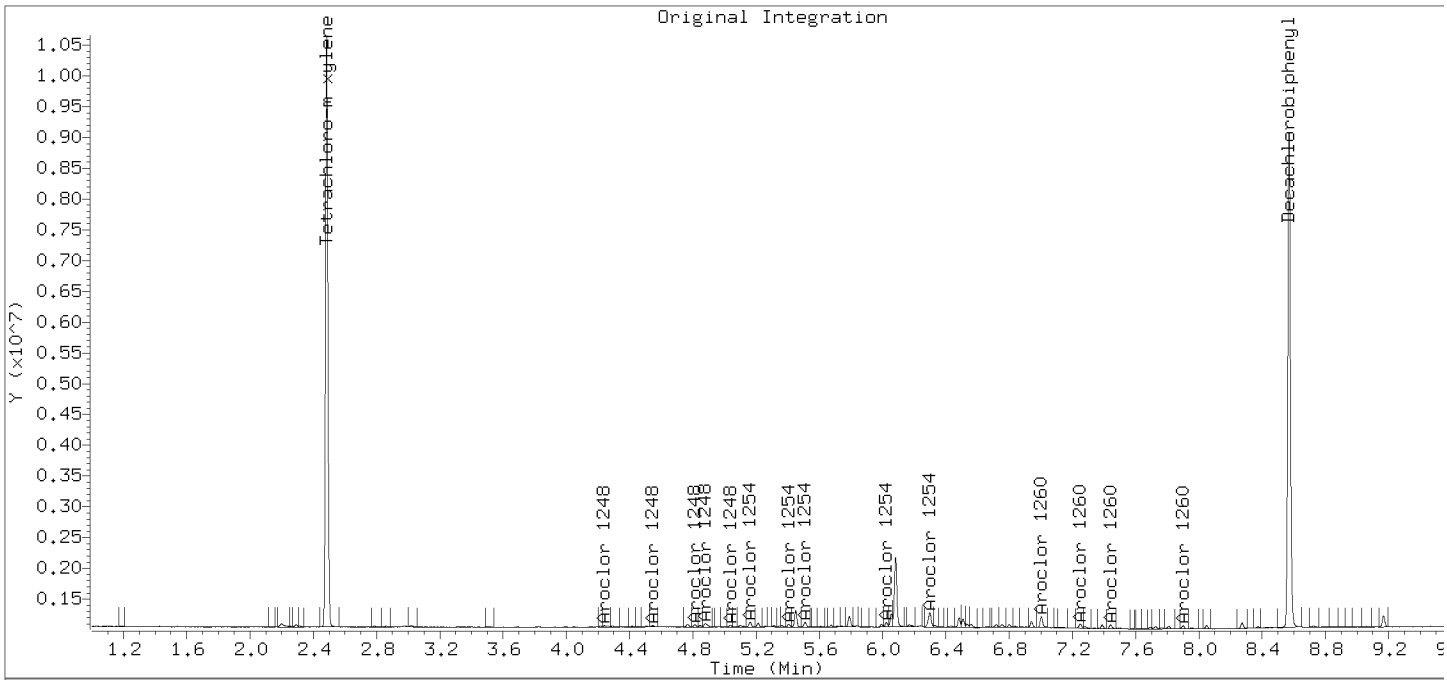
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

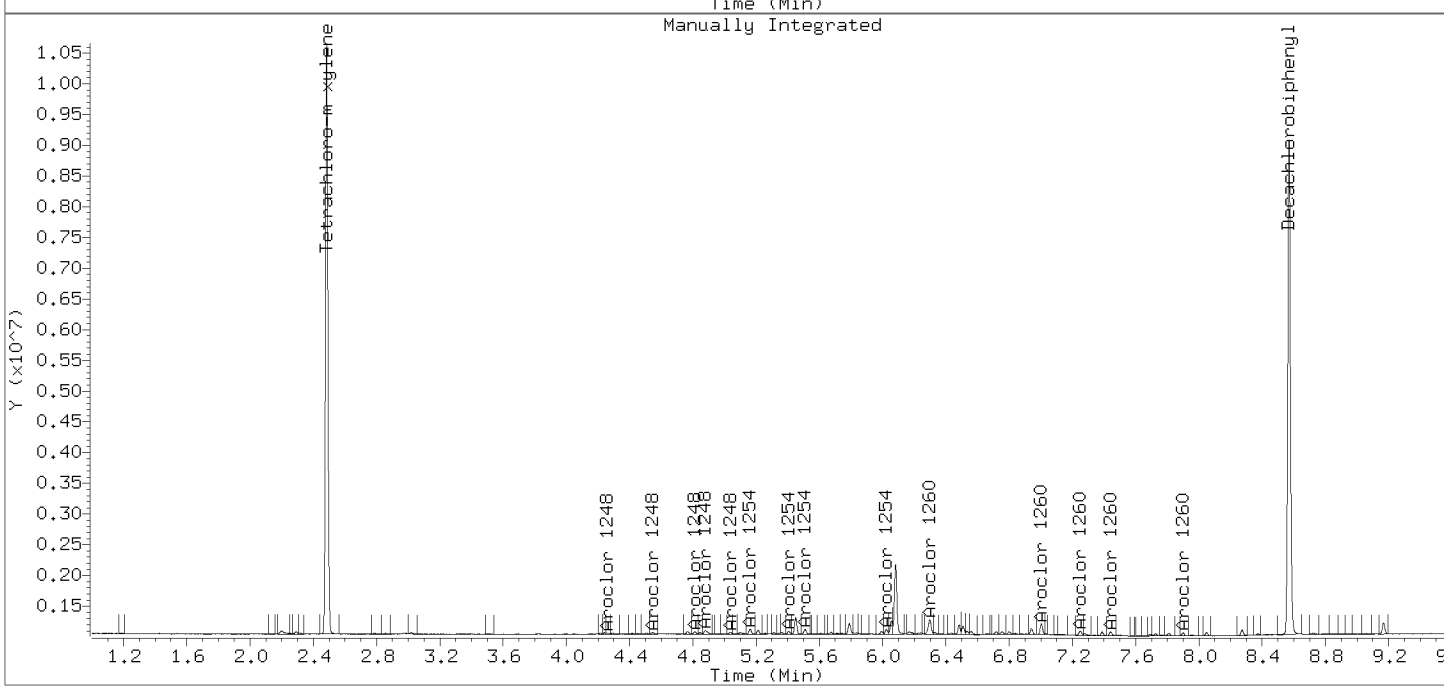
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018023.D
Date : 30-MAR-2018 20:48
Client ID: FD1-170613-01-SMB-0
Sample Info: 40151613014,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 20:48 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40151613014





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	CO
Aroclor 1248	0	0	CO
Aroclor 1248	0	0	CO
Aroclor 1248	0	0	CO
Aroclor 1248	0	0	CO
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1254	0	0	BA
Aroclor 1260	314691	338999	CO
Aroclor 1260	314691	338999	CO
Aroclor 1260	314691	338999	CO
Aroclor 1260	314691	338999	CO
Aroclor 1260	314691	338999	CO
Tetrachloro-m-xylene	9922119	9922119	
Decachlorobiphenyl	9422028	9422028	

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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.: 40151613

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.: 40151613

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.: 40151613

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

LAB FILE ID

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

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

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

05/11/2018 10:30

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40151613

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.: 40151613

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.: 40151613

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.: 40151613

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

LAB FILE ID

CAL3S = 030618.B\030618008.D

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

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Lab Smp Id: 1232-CAL3S Client Smp ID: 1232-CAL3S
Inj Date : 06-MAR-2018 11:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17498,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	64094	46184	0.721	0.24		
1.429	37762	31672	0.839	0.14		
1.535	16372	12525	0.765	0.06		
1.688	12215	10878	0.891	0.04		
1.804	291016	252430	0.867	1.10		
2.011	33236	24341	0.732	0.12		
2.198	82778	71506	0.864	0.31		
2.407	191146	142081	0.743	0.72		
2.485	5780151	5532286	0.957	22.35		
2.688	419741	347465	0.828	1.59		
2.789	391882	367897	0.939	1.48		
2.851	1250012	1144522	0.916	4.74	4 Aroclor 1232	BA
3.028	21736	20469	0.942	0.08		
3.055	85135	77802	0.914	0.32		
3.280	70307	52213	0.743	0.26		
3.319	723460	656407	0.907	2.74		
3.344	391395	363151	0.928	1.48		
3.434	120283	103424	0.860	0.45		
3.514	669892	480513	0.717	2.54	4 Aroclor 1232	BA
3.611	20898	19814	0.948	0.07		
3.698	27644	23229	0.840	0.10		
3.733	173570	179973	1.037	0.65		
3.757	122922	116095	0.944	0.46		
3.827	1874863	1087503	0.580	7.12	4 Aroclor 1232	BA
3.929	803247	685069	0.853	3.05	4 Aroclor 1232	BA
3.995	545938	536580	0.983	2.07	4 Aroclor 1232	BA
4.059	141928	130174	0.917	0.53		
4.137	62125	51170	0.824	0.23		
4.216	393609	374181	0.951	1.49		
4.261	373167	361789	0.970	1.41		
4.294	162815	169097	1.039	0.61		
4.310	204739	187151	0.914	0.77		
4.371	21919	15566	0.710	0.08		
4.418	536617	502916	0.937	2.03		
4.452	418871	298669	0.713	1.59		
4.546	683890	623608	0.912	2.59		
4.618	163410	151749	0.929	0.62		

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Lab Smp Id: 1232-CAL3S Client Smp ID: 1232-CAL3S
Inj Date : 06-MAR-2018 11:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17498,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:39 Cal File: 030618014.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
2.851	2.851	0.000	1250012	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	669891	0.50000	0.50	0.00- 20.00	53.59	BA
3.827	3.827	0.000	1874863	0.50000	0.50	0.00- 20.00	149.99	BA
3.929	3.929	0.000	803246	0.50000	0.50	0.00- 20.00	64.26	BA
3.995	3.995	0.000	545938	0.50000	0.50	0.00- 20.00	43.67	BA
Average of Peak Amounts =					0.50000			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D

Date : 06-MAR-2018 11:50

Client ID: 1232-CAL3S

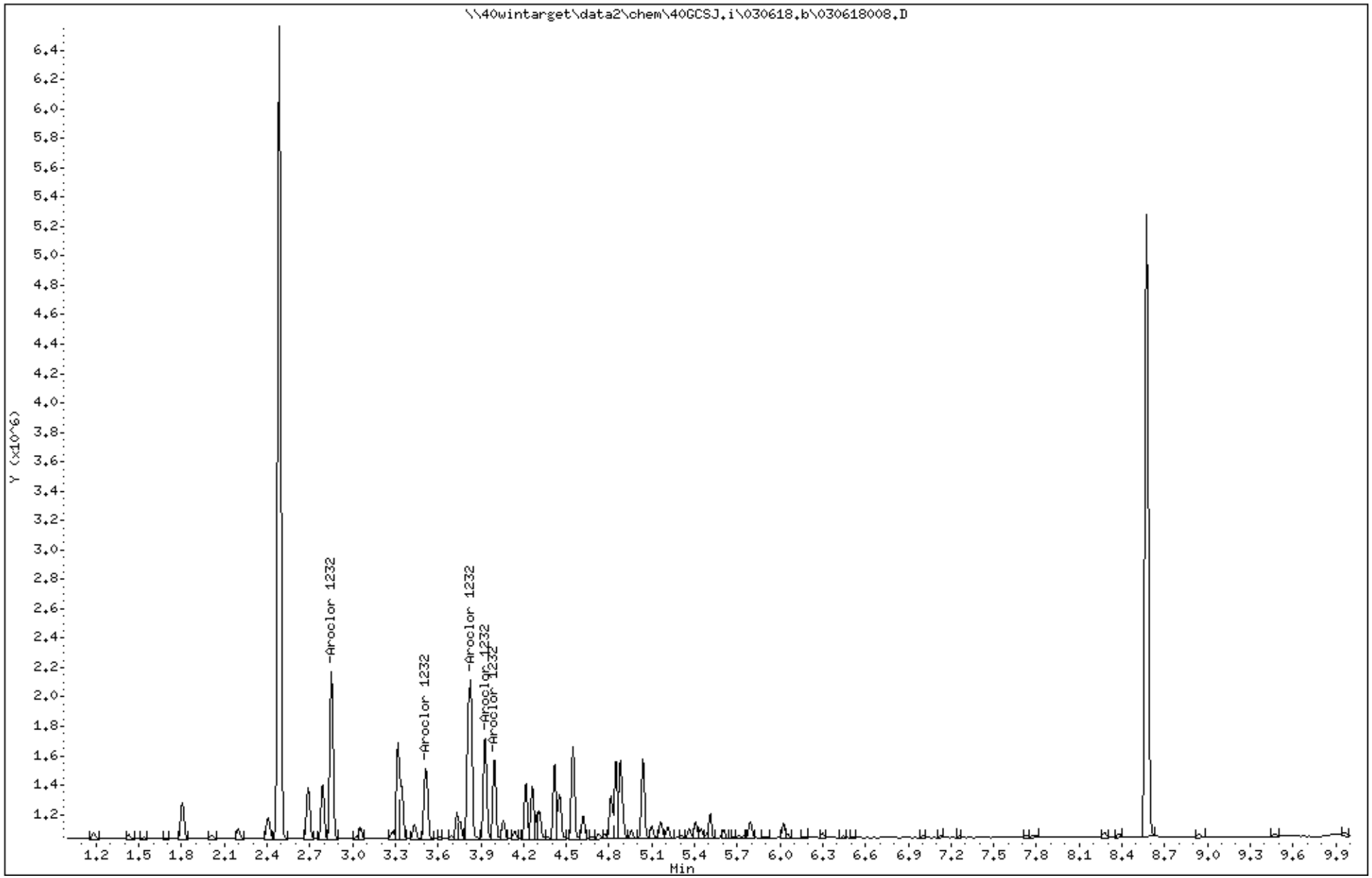
Instrument: 40GCSJ.i

Sample Info: 1232-CAL3S, 185539:1

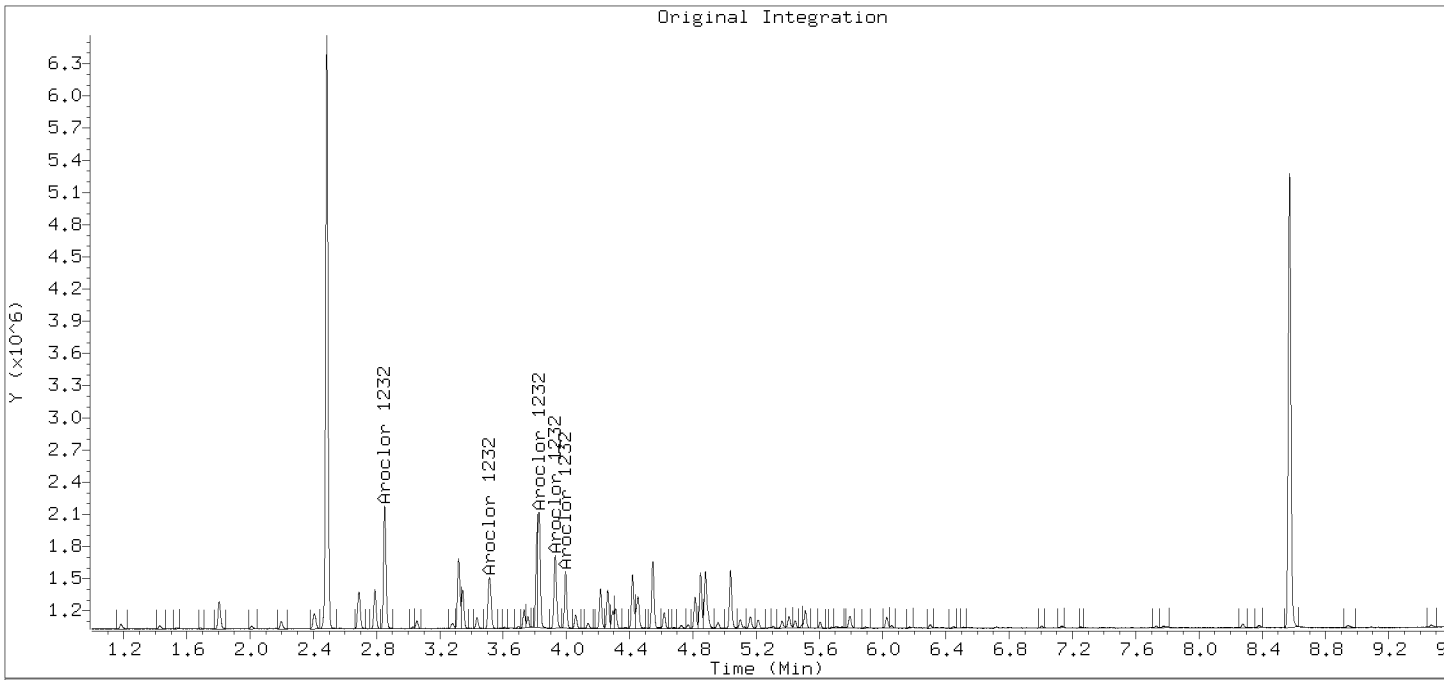
Operator: BLM

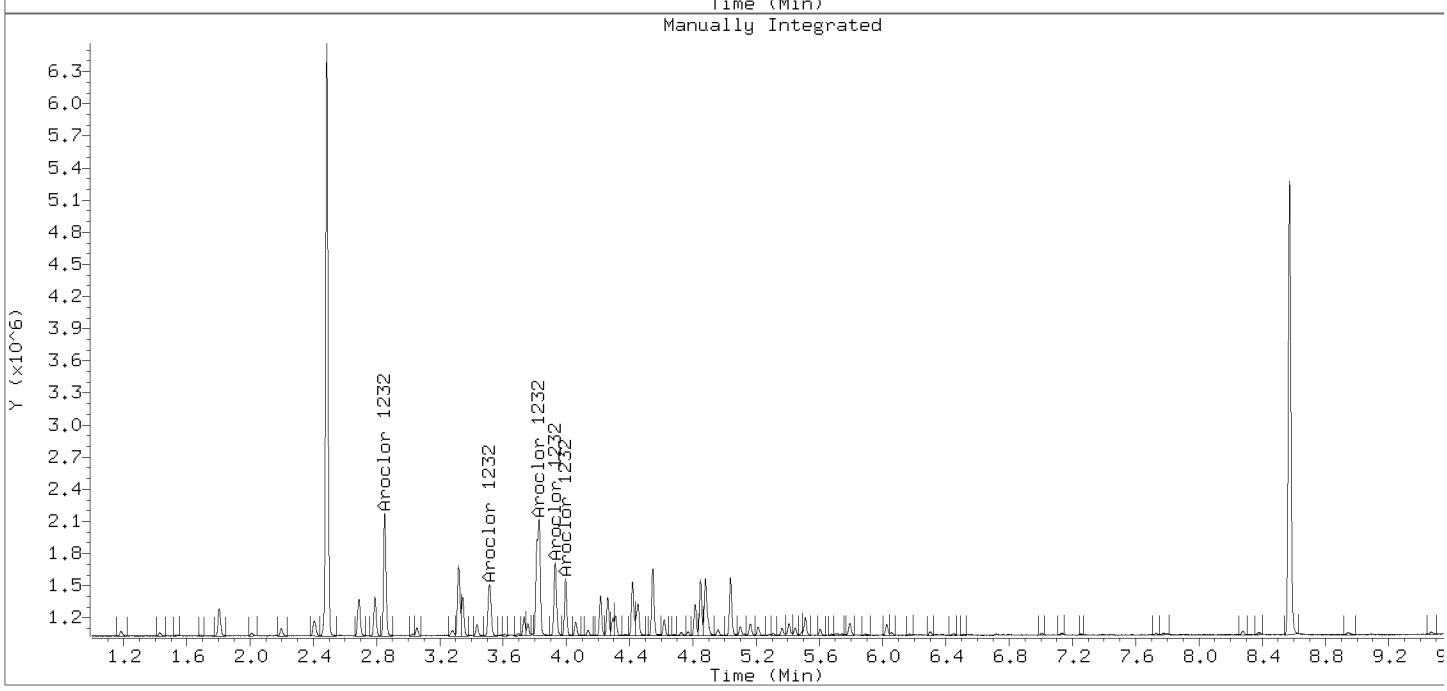
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:07

Client ID: 1221-CAL1F

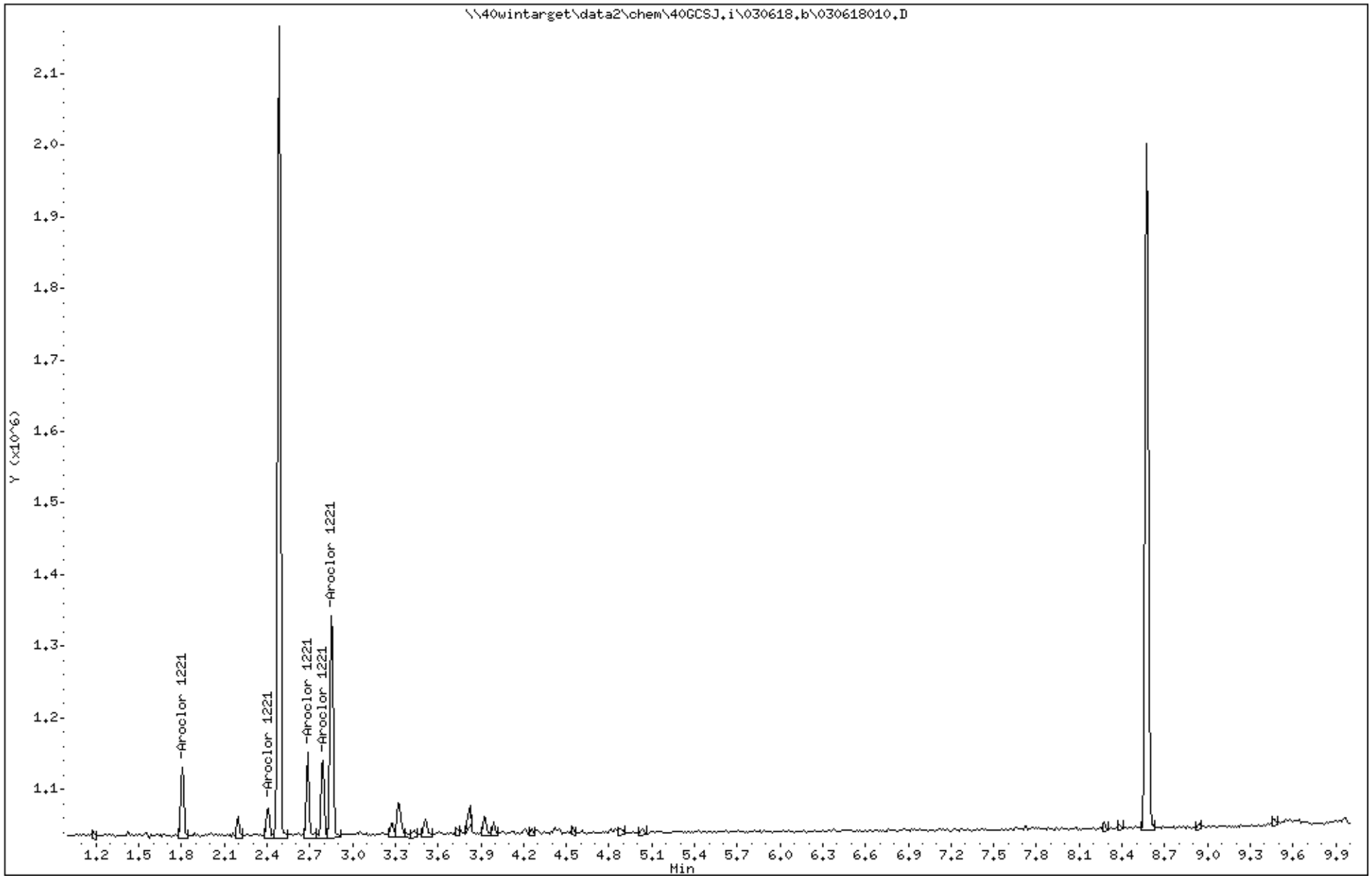
Instrument: 40GCSJ.i

Sample Info: 1221-CAL1F, 188138:1

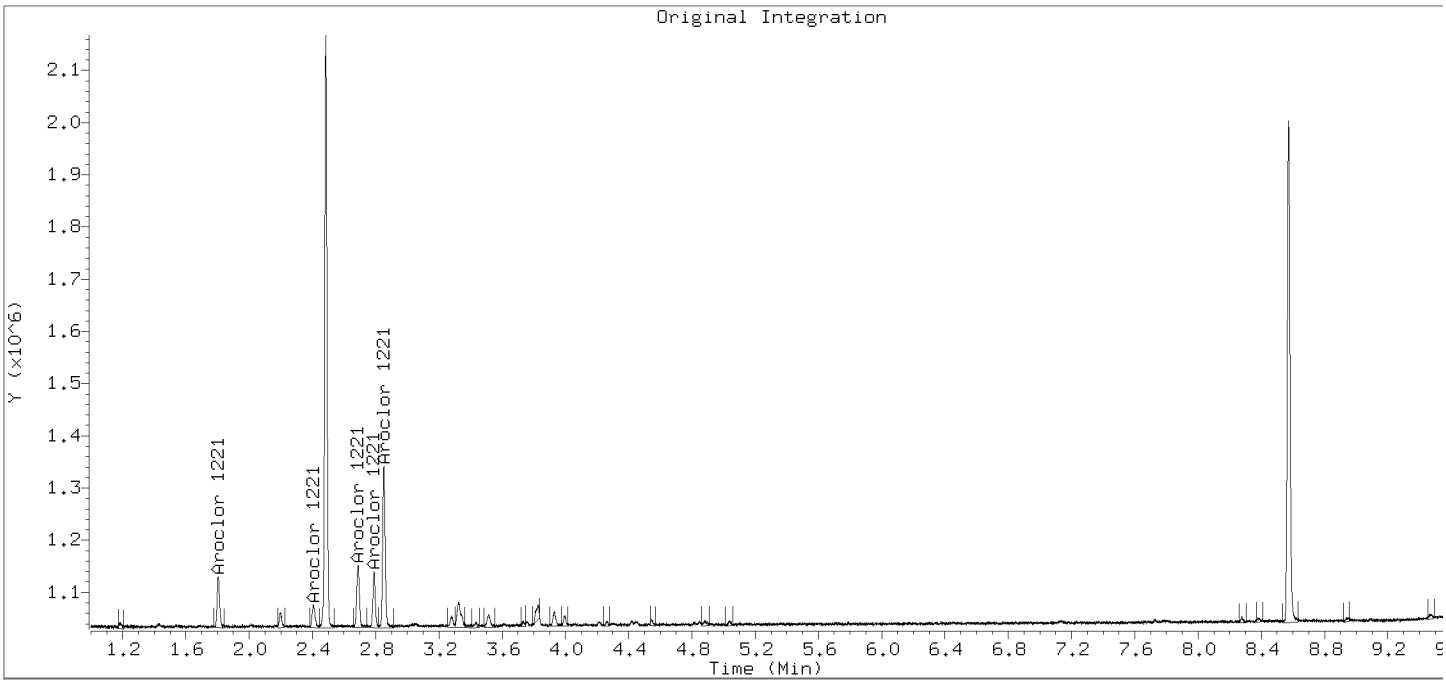
Operator: BLM

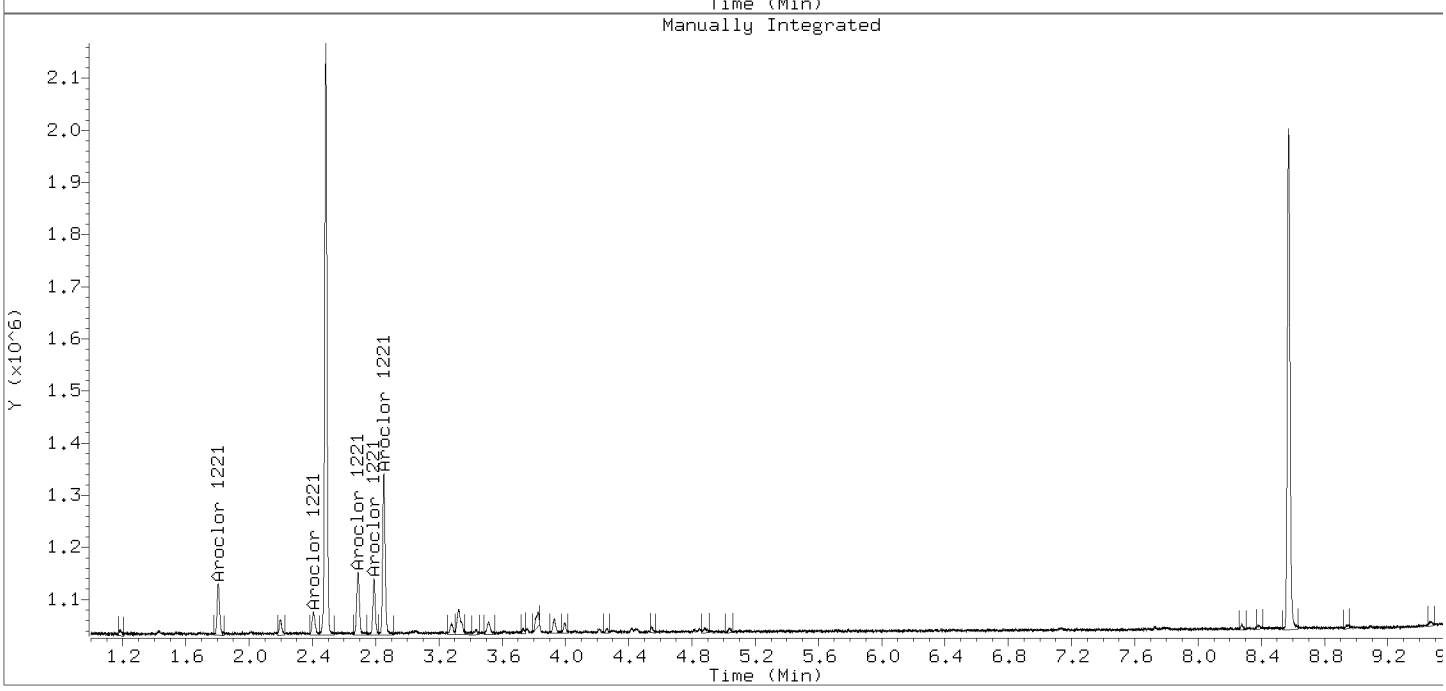
Column phase: ZB-1ms

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:23

Client ID: 1221-CAL2F

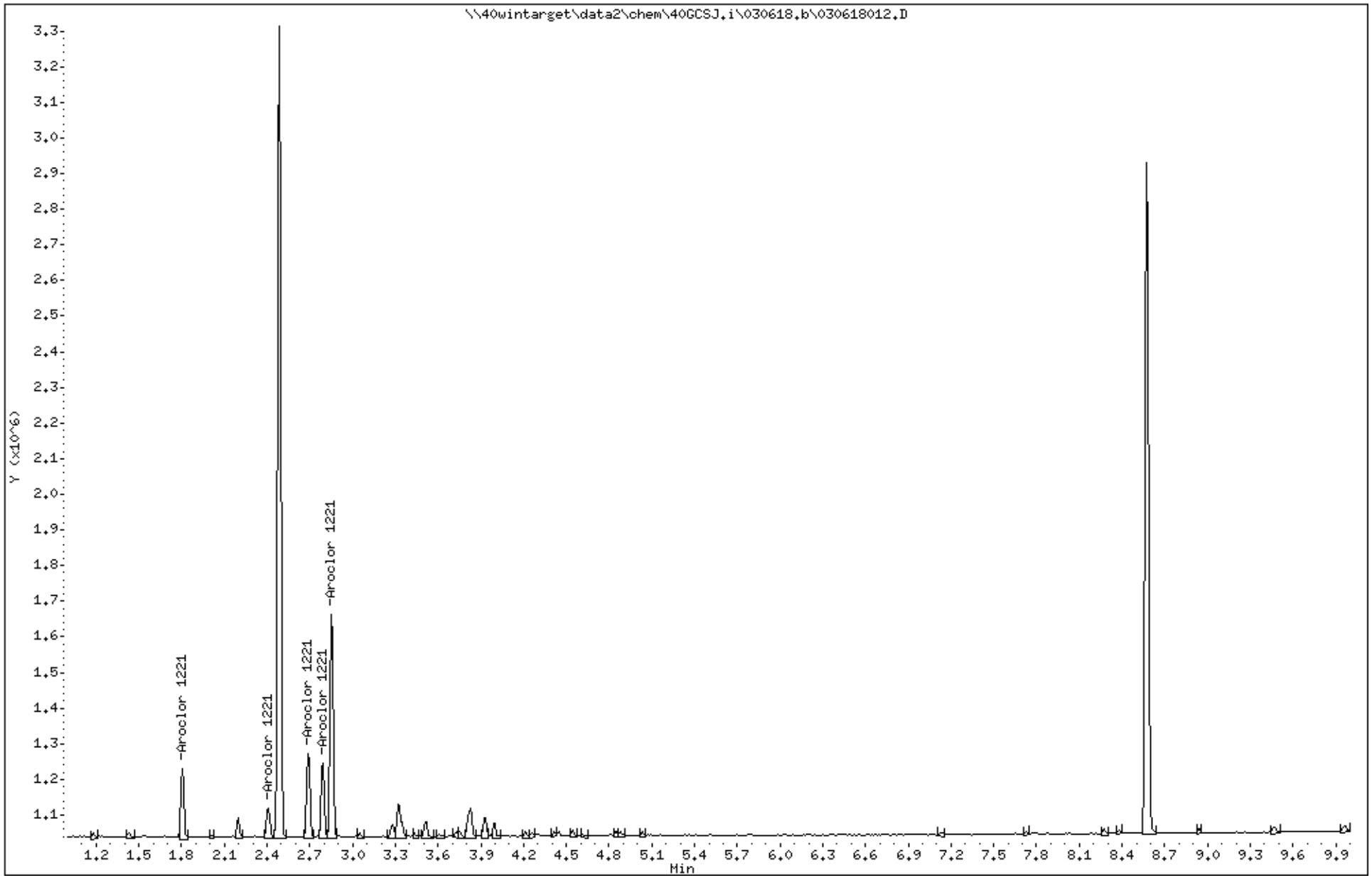
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

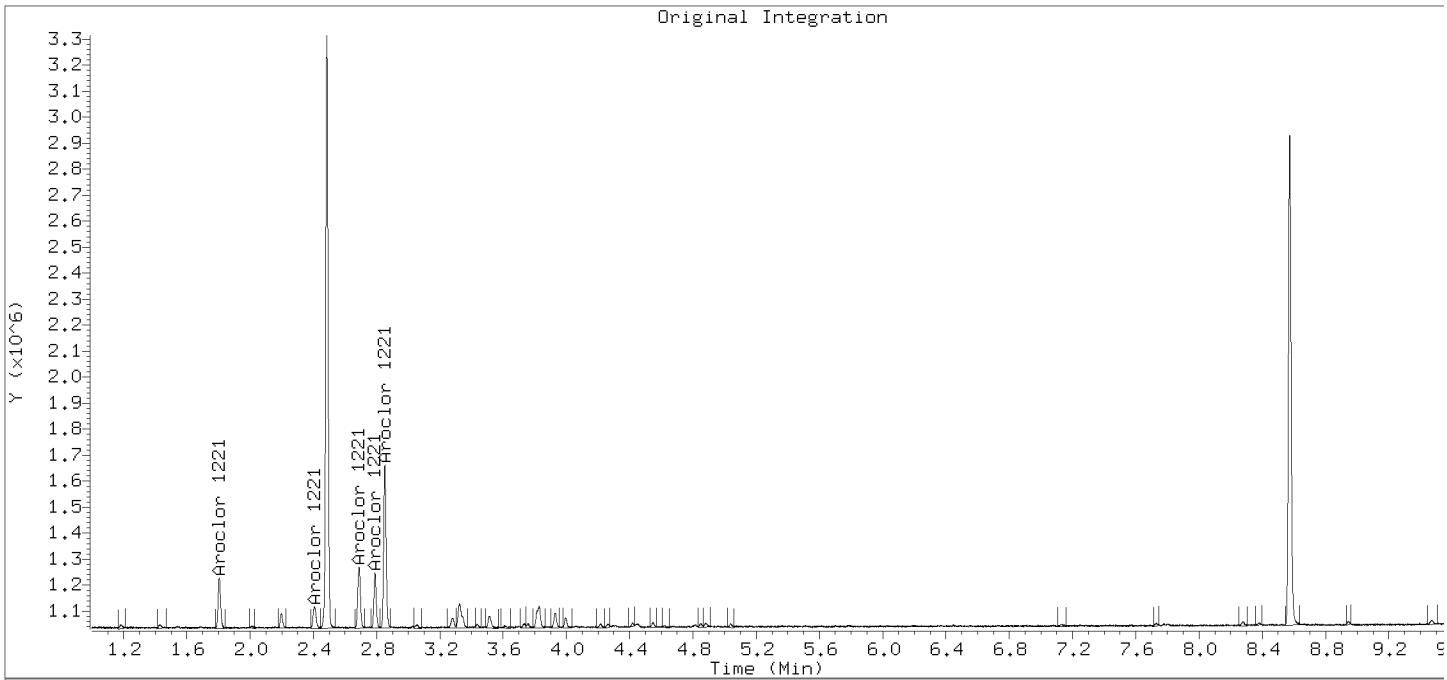
Operator: BLM

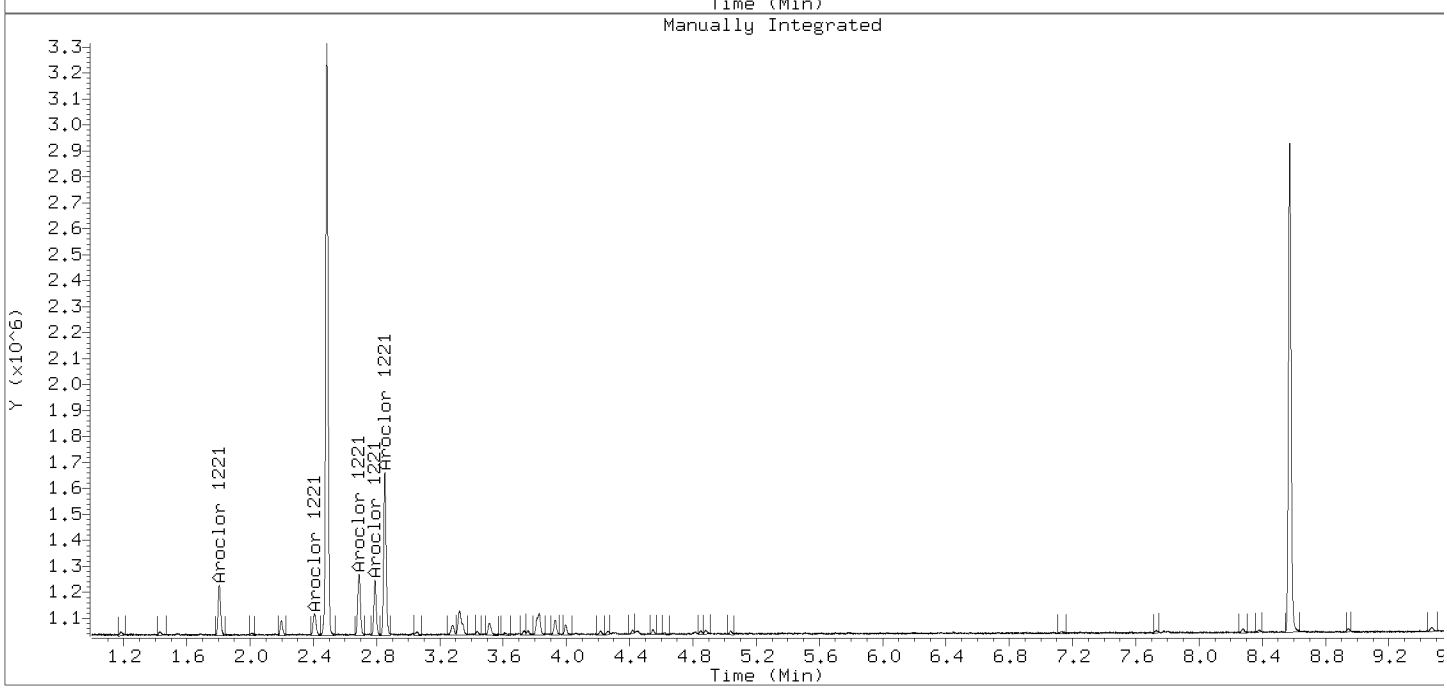
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D

Date : 06-MAR-2018 12:39

Client ID: 1221-CAL3F

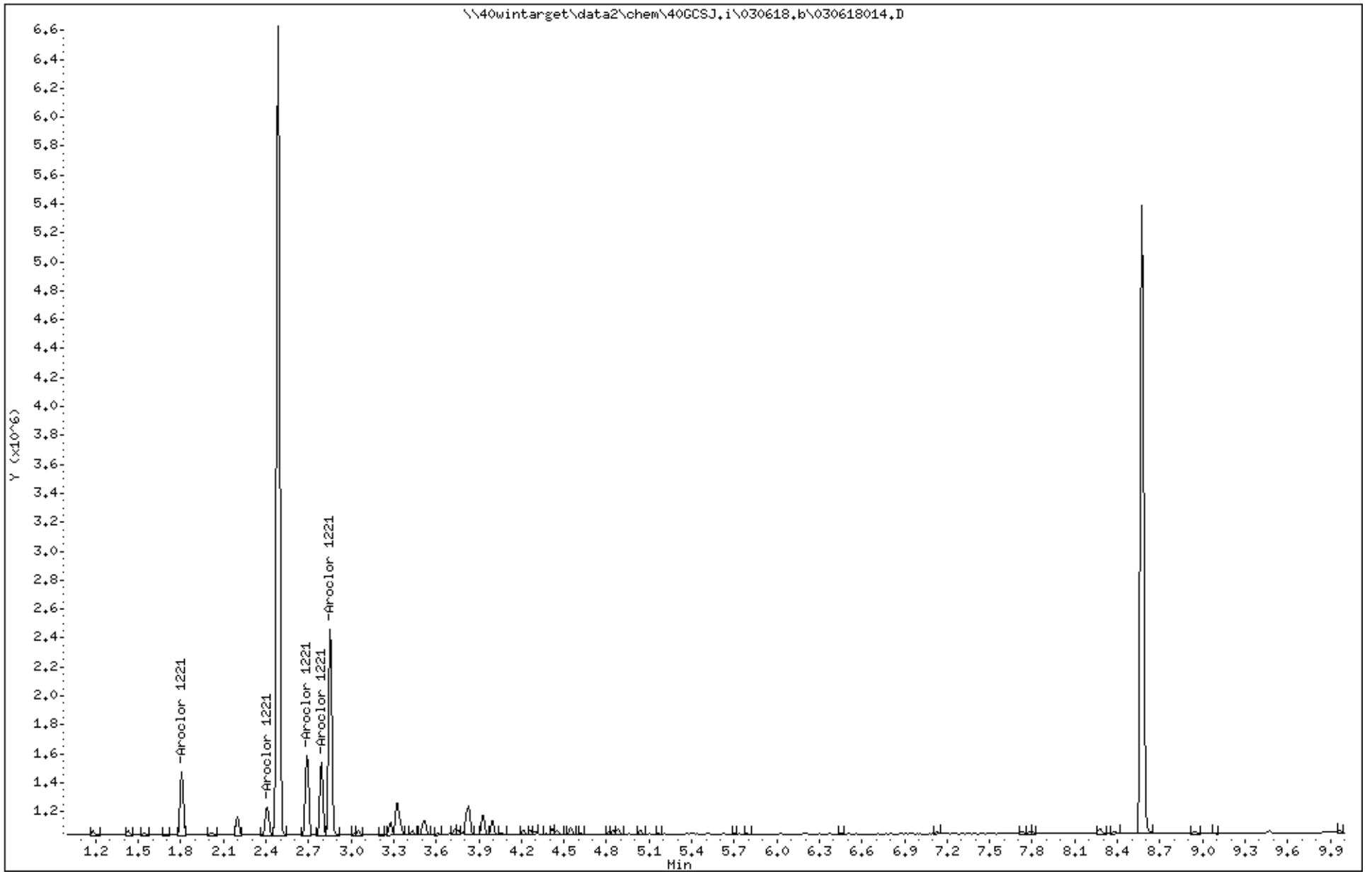
Instrument: 40GCSJ.i

Sample Info: 1221-CAL3F, 185538:1

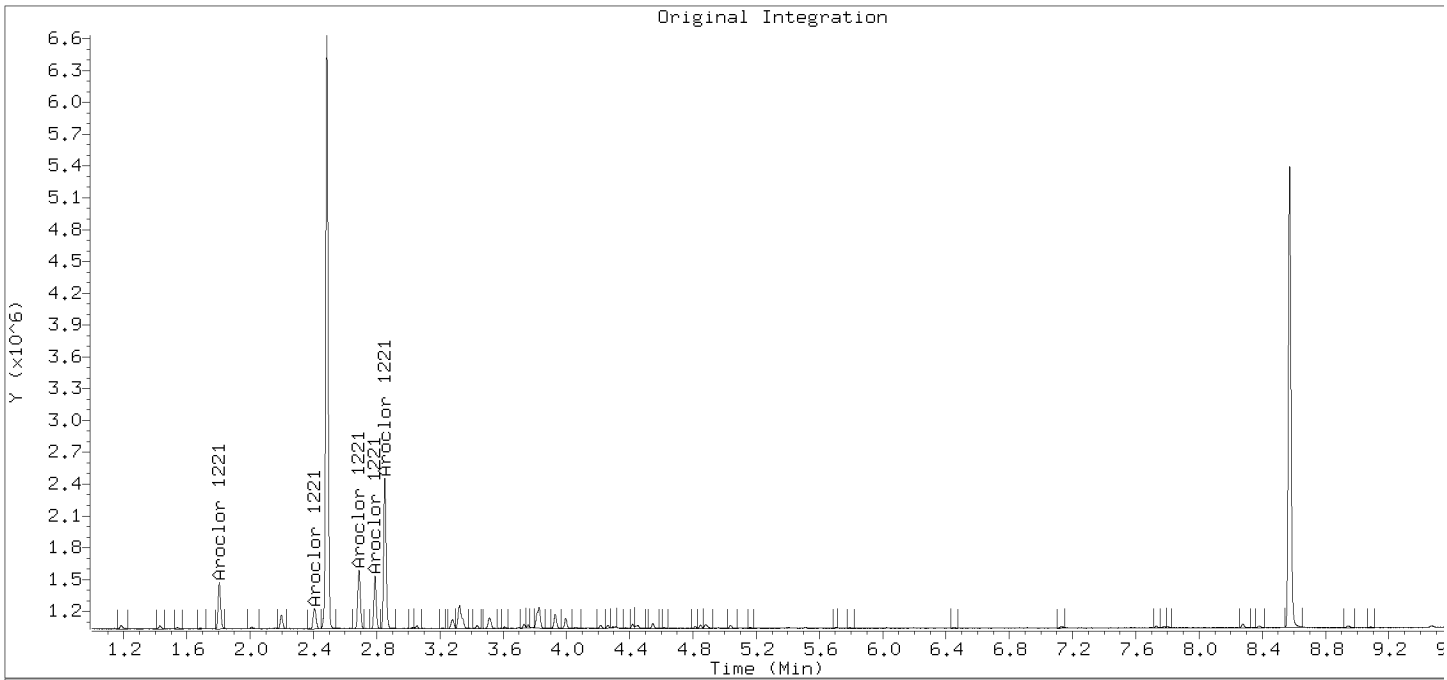
Operator: BLM

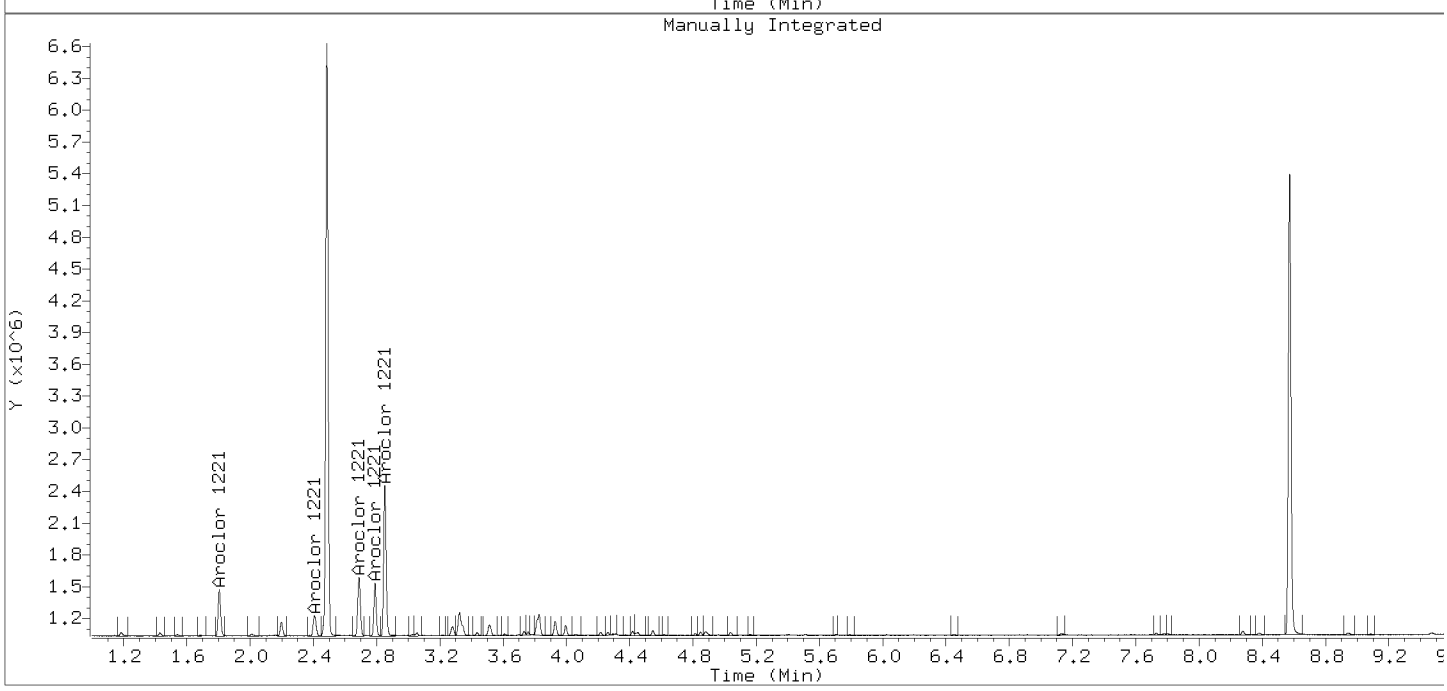
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

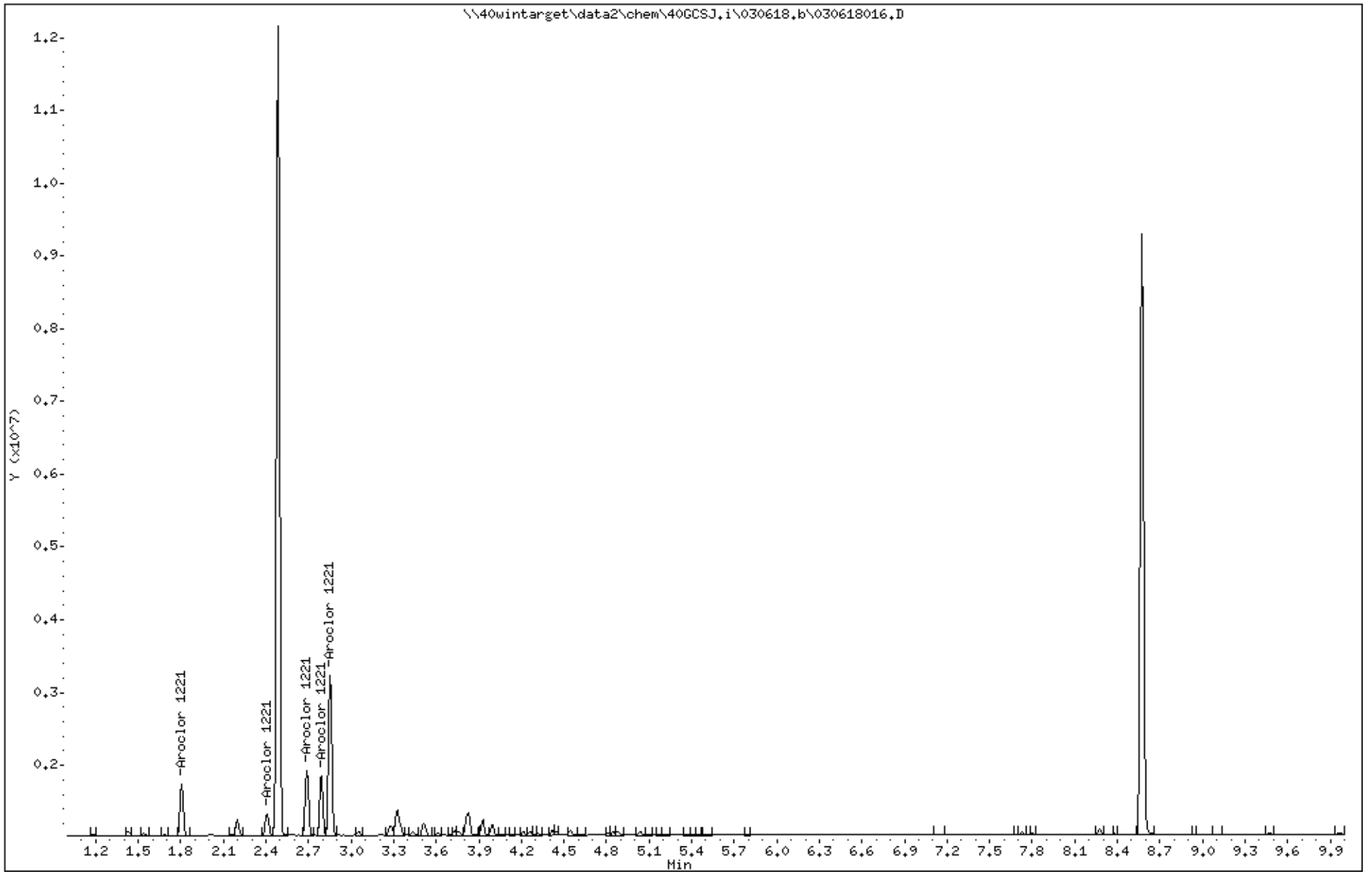
M - Compound response manually integrated.

Review Codes Legend

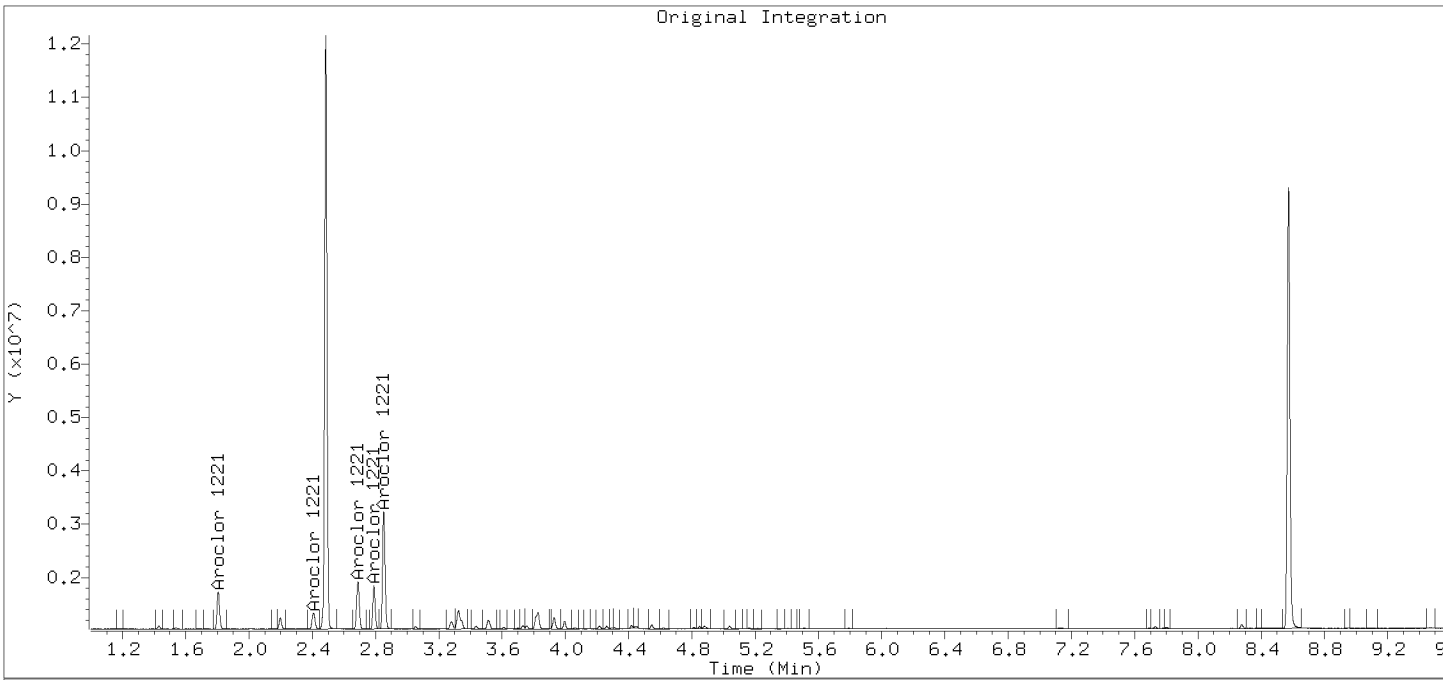
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

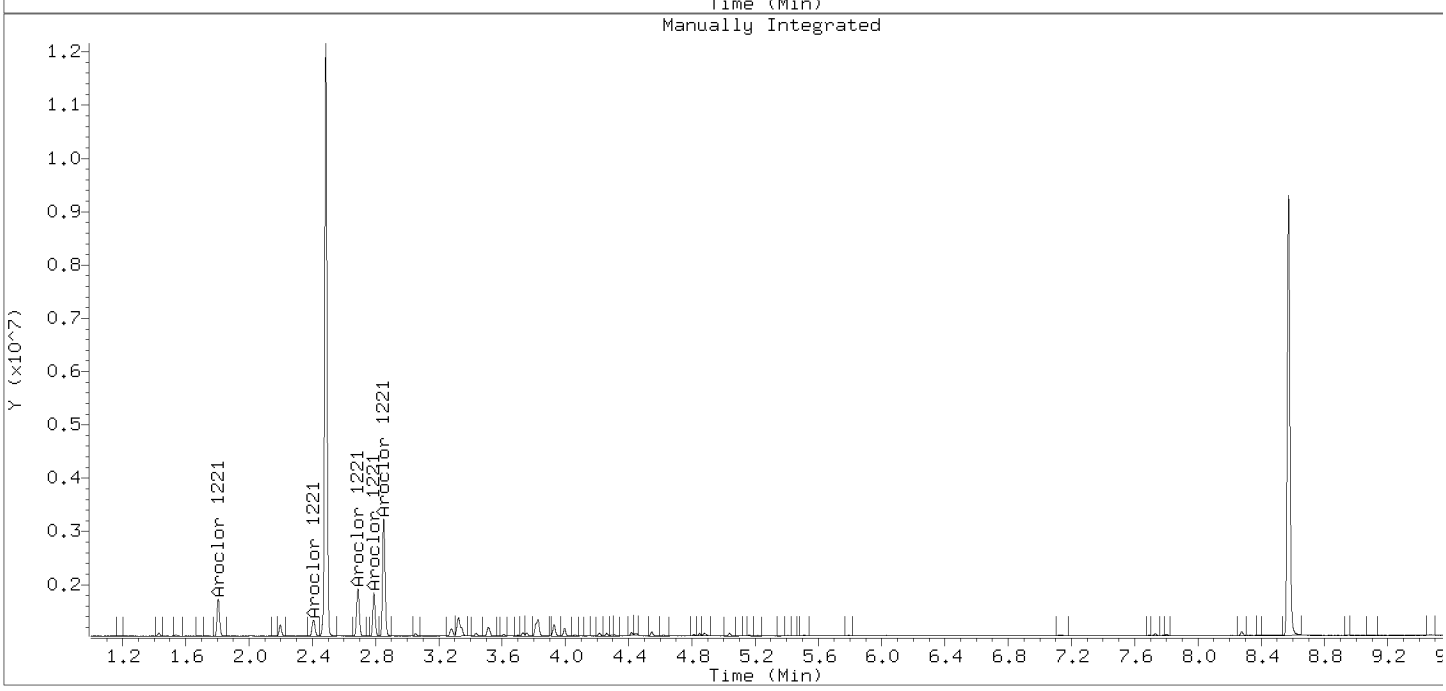
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Date : 06-MAR-2018 12:55
Client ID: 1221-CAL4F
Sample Info: 1221-CAL4F, 188140:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

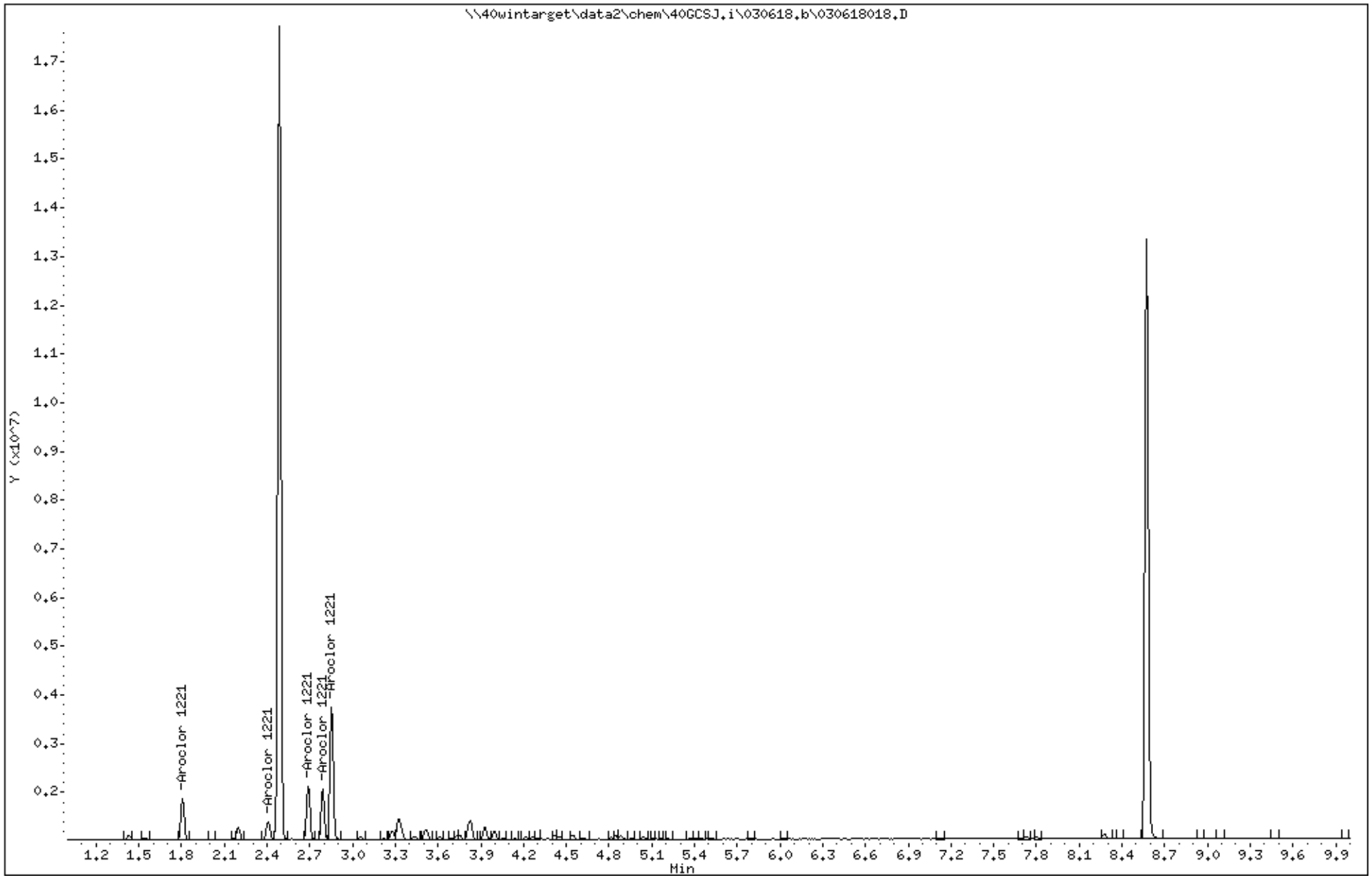
M - Compound response manually integrated.

Review Codes Legend

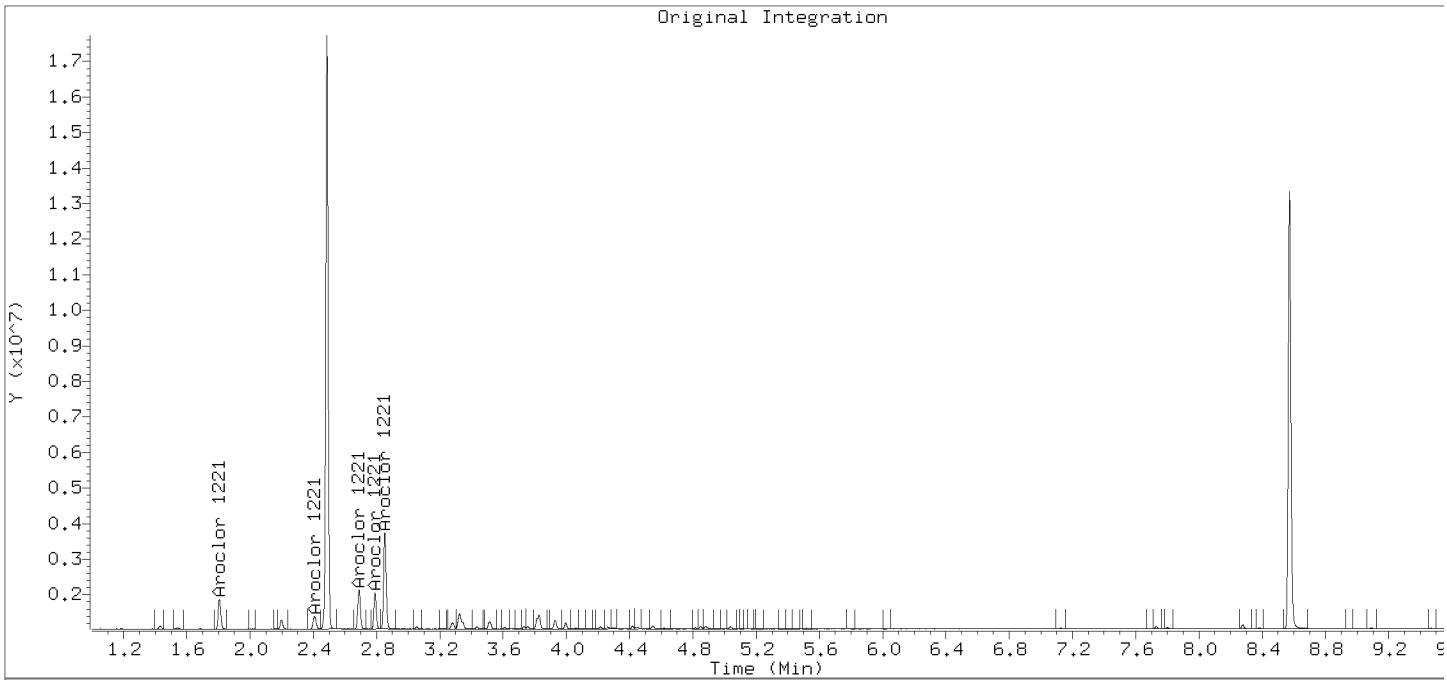
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

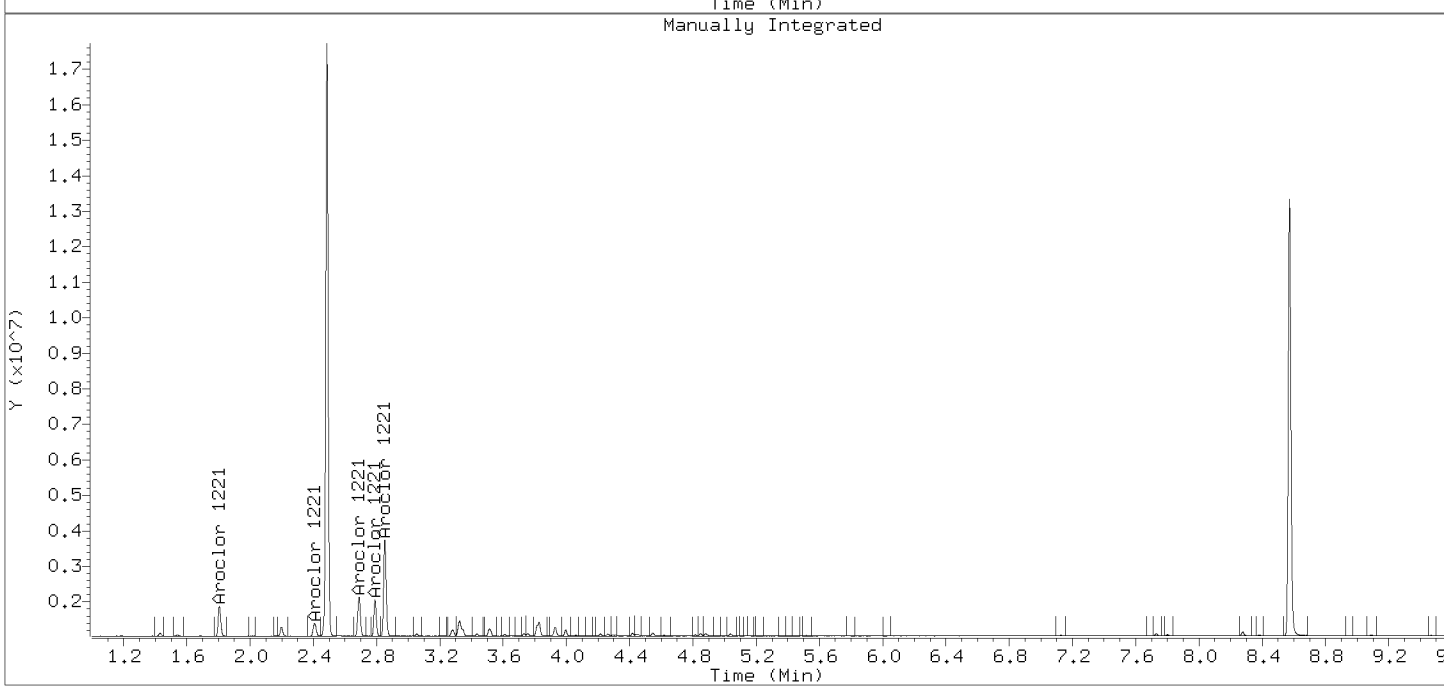
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

Average of Peak Amounts = 0.11000

QC Flag Legend

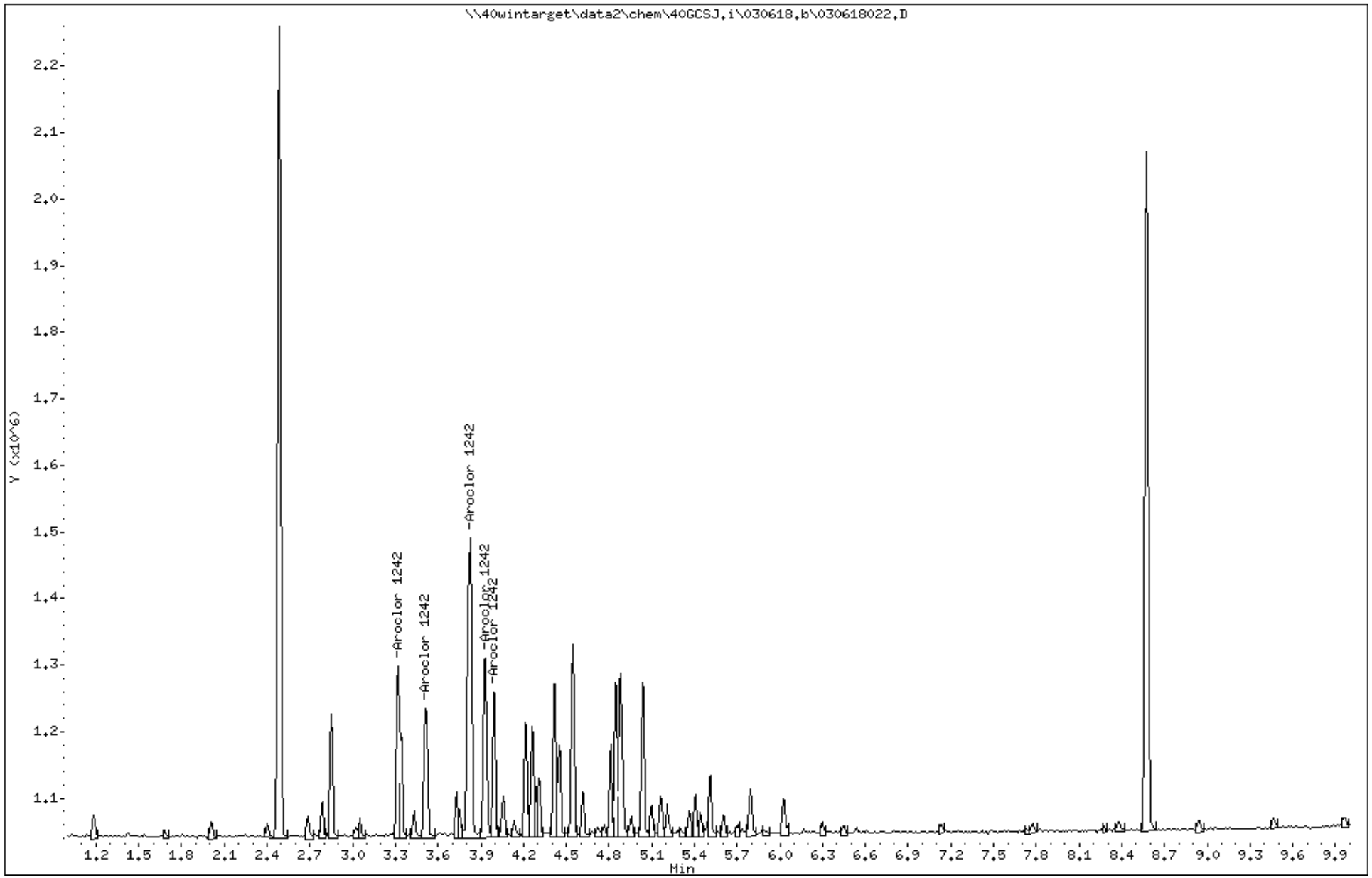
M - Compound response manually integrated.

Review Codes Legend

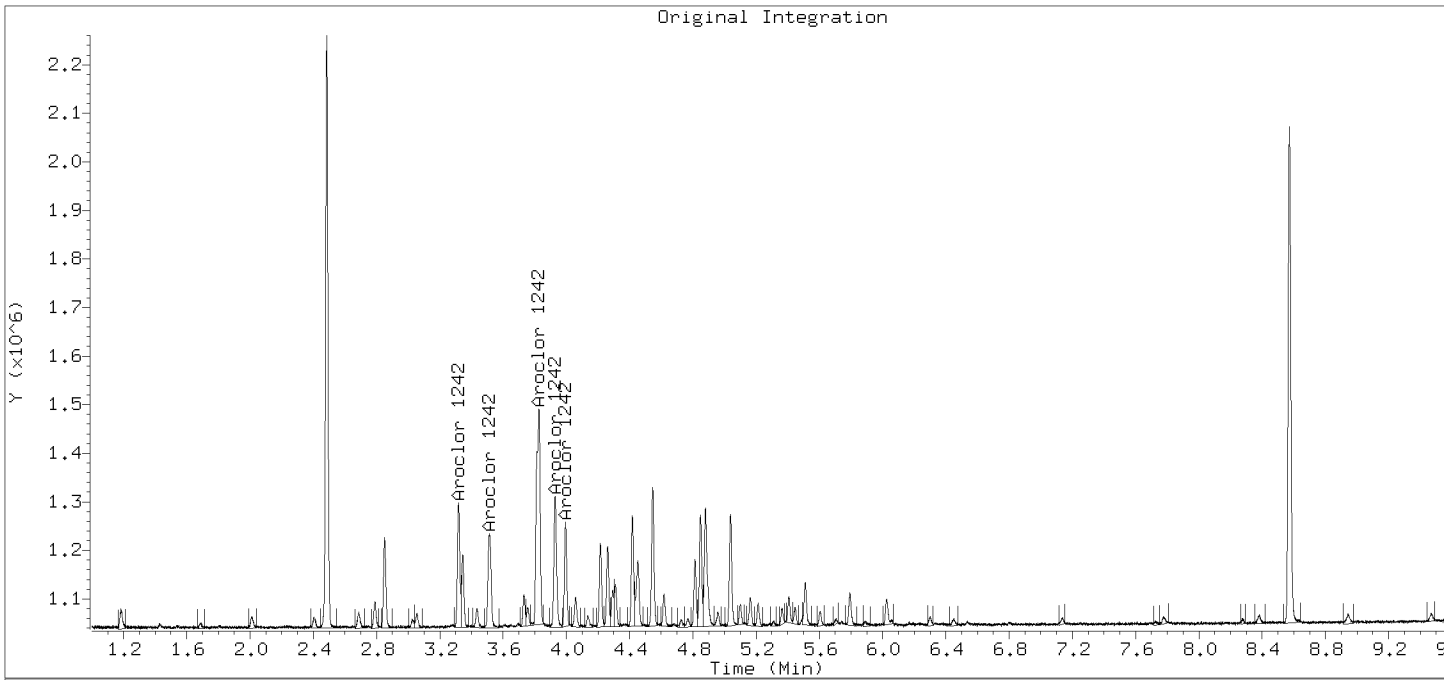
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

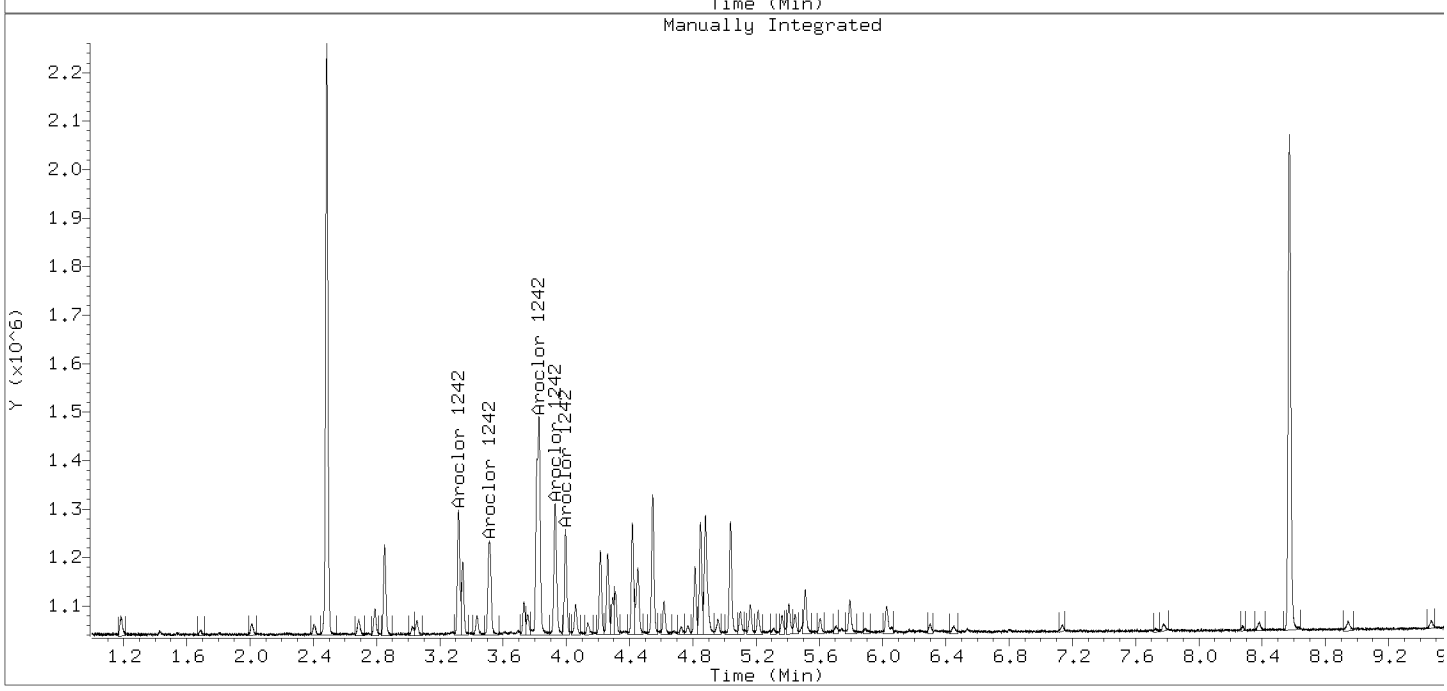
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

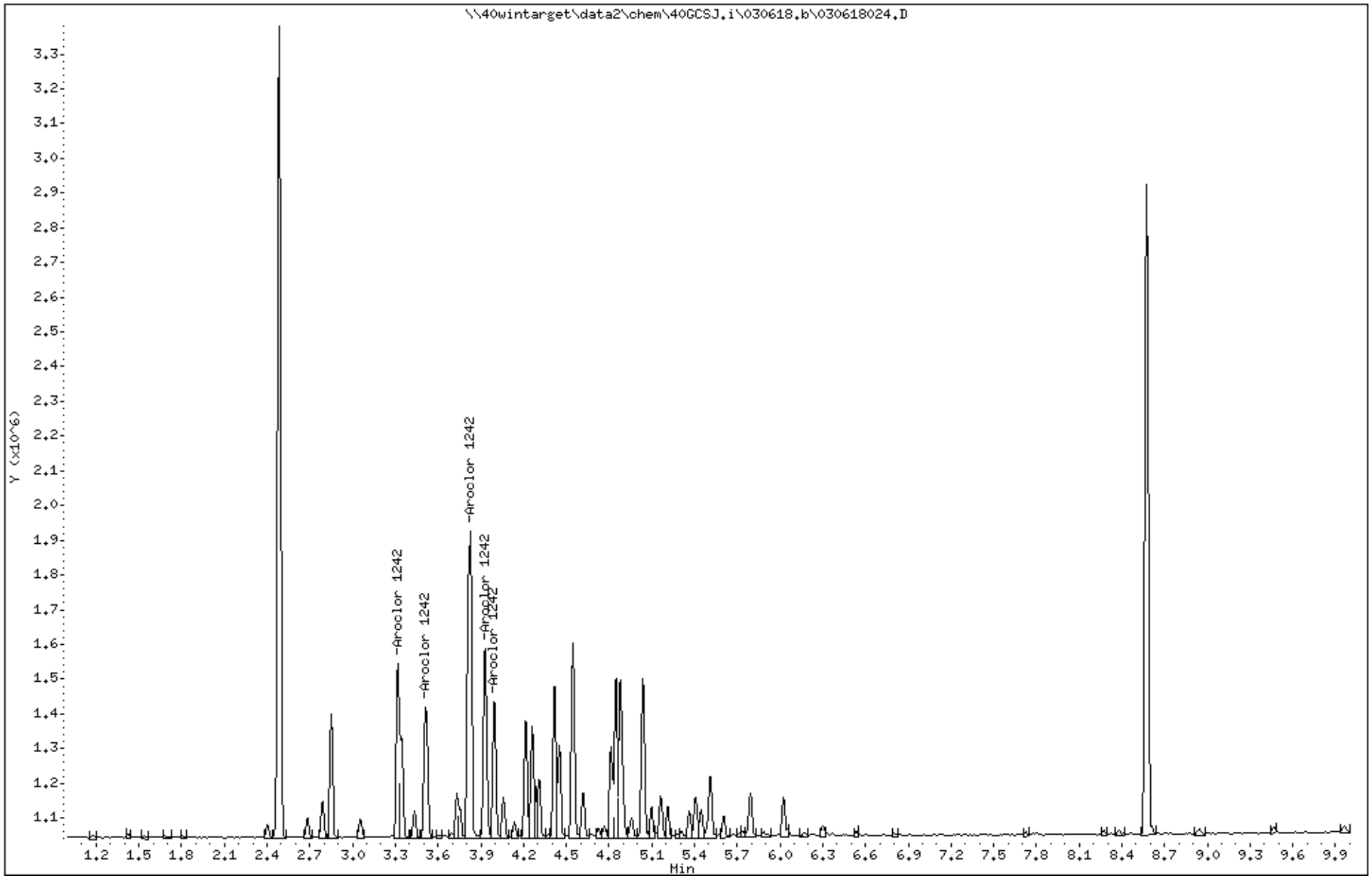
M - Compound response manually integrated.

Review Codes Legend

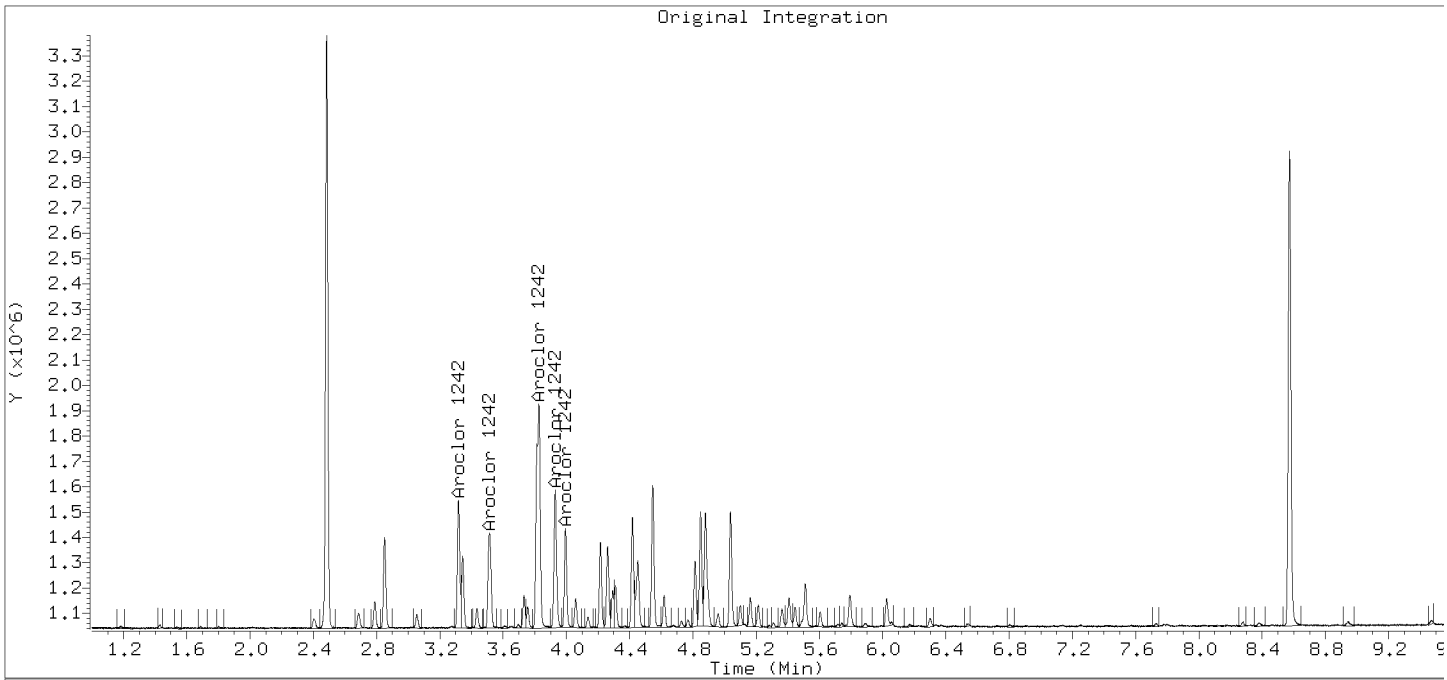
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

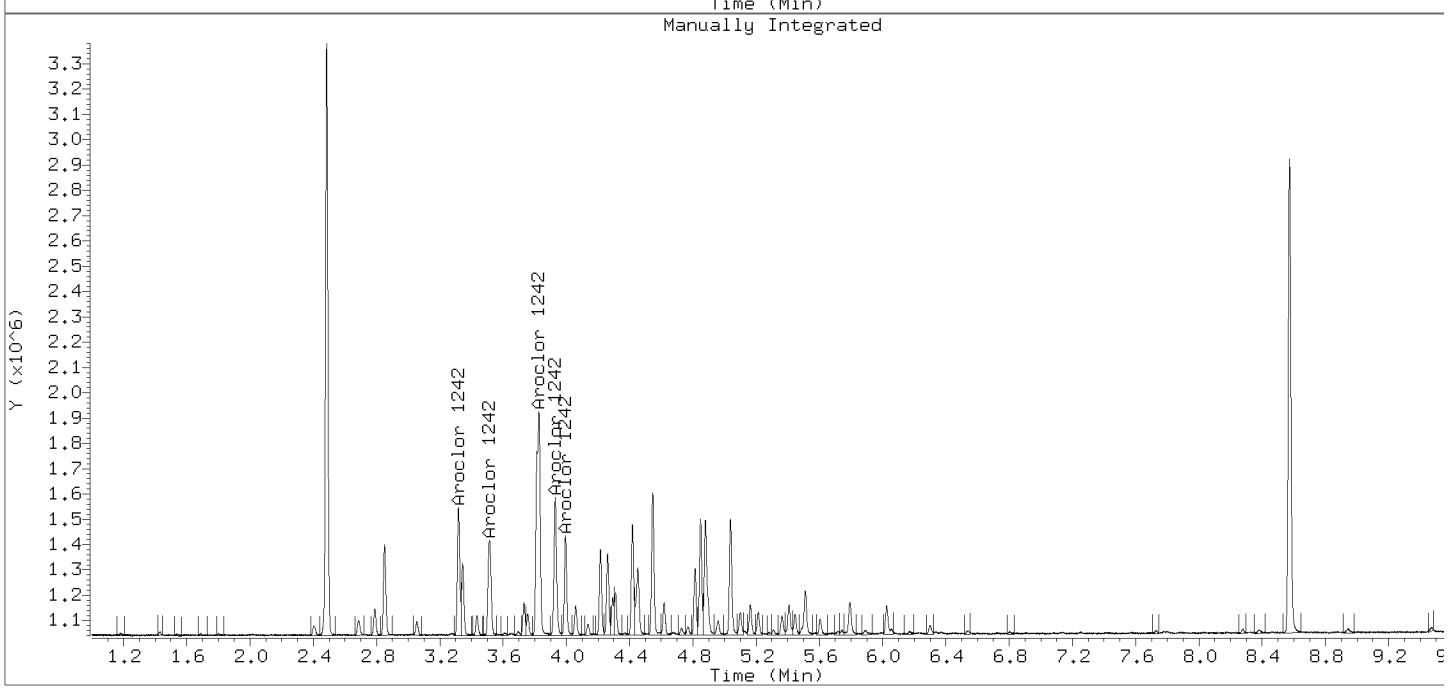
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

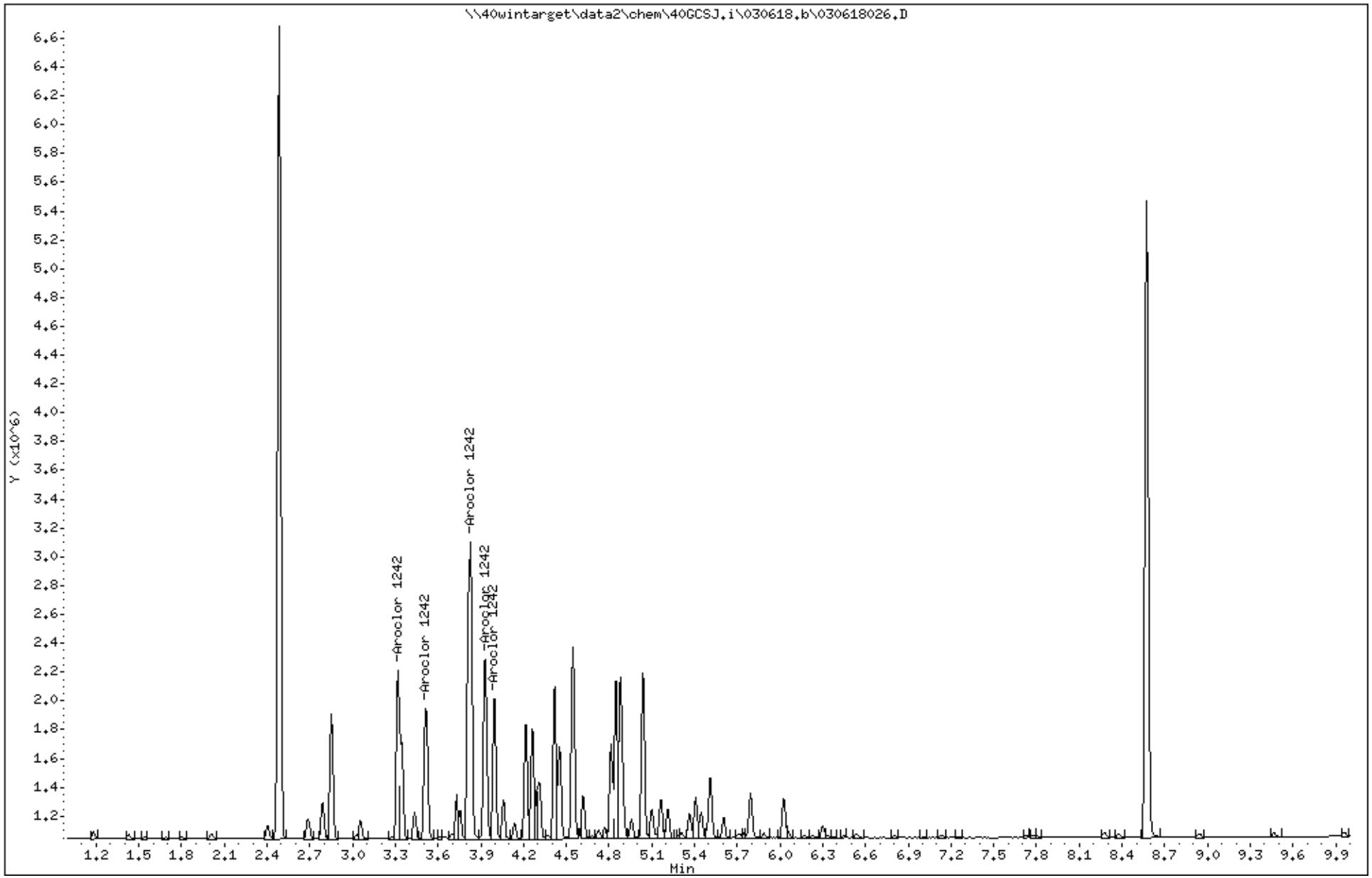
M - Compound response manually integrated.

Review Codes Legend

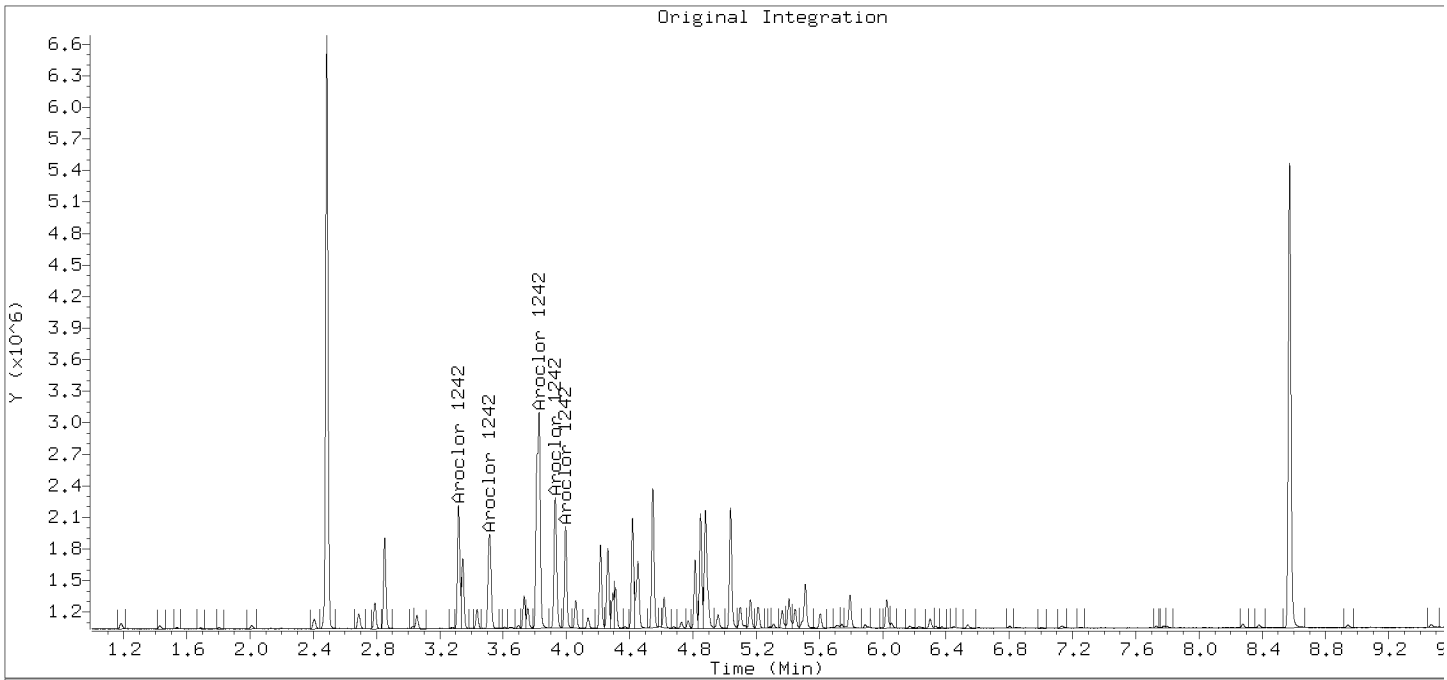
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

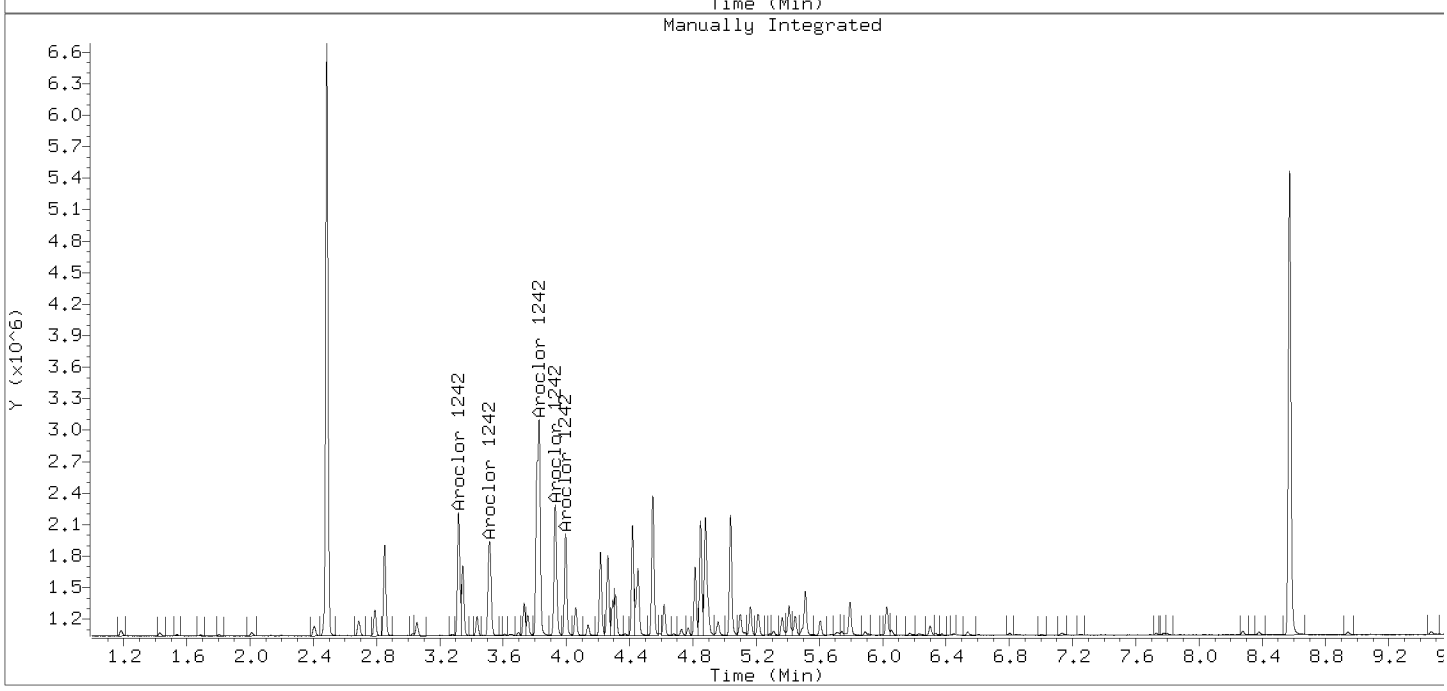
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Date : 06-MAR-2018 14:16
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 14:32

Client ID: 1242-CAL4B

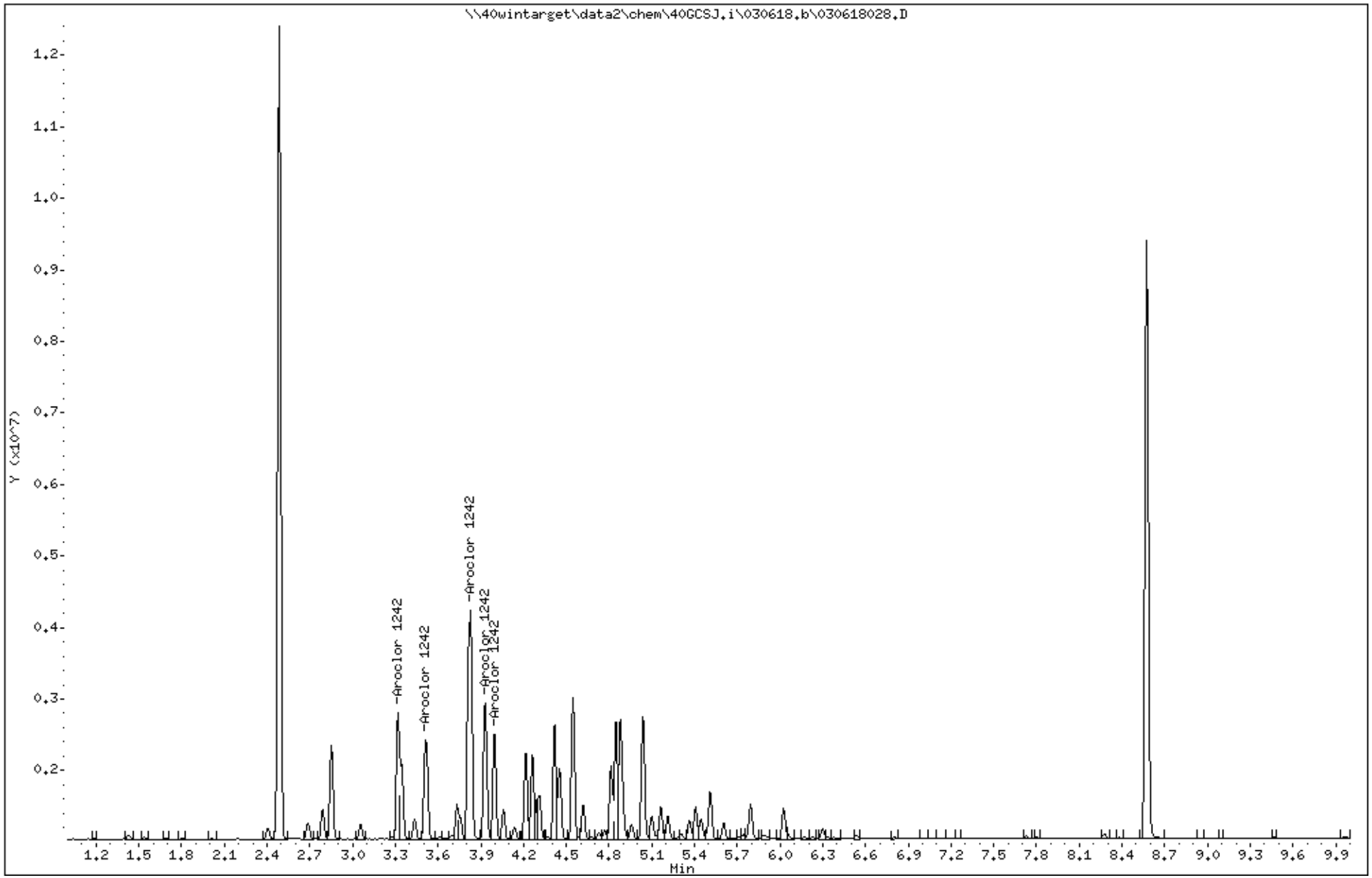
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

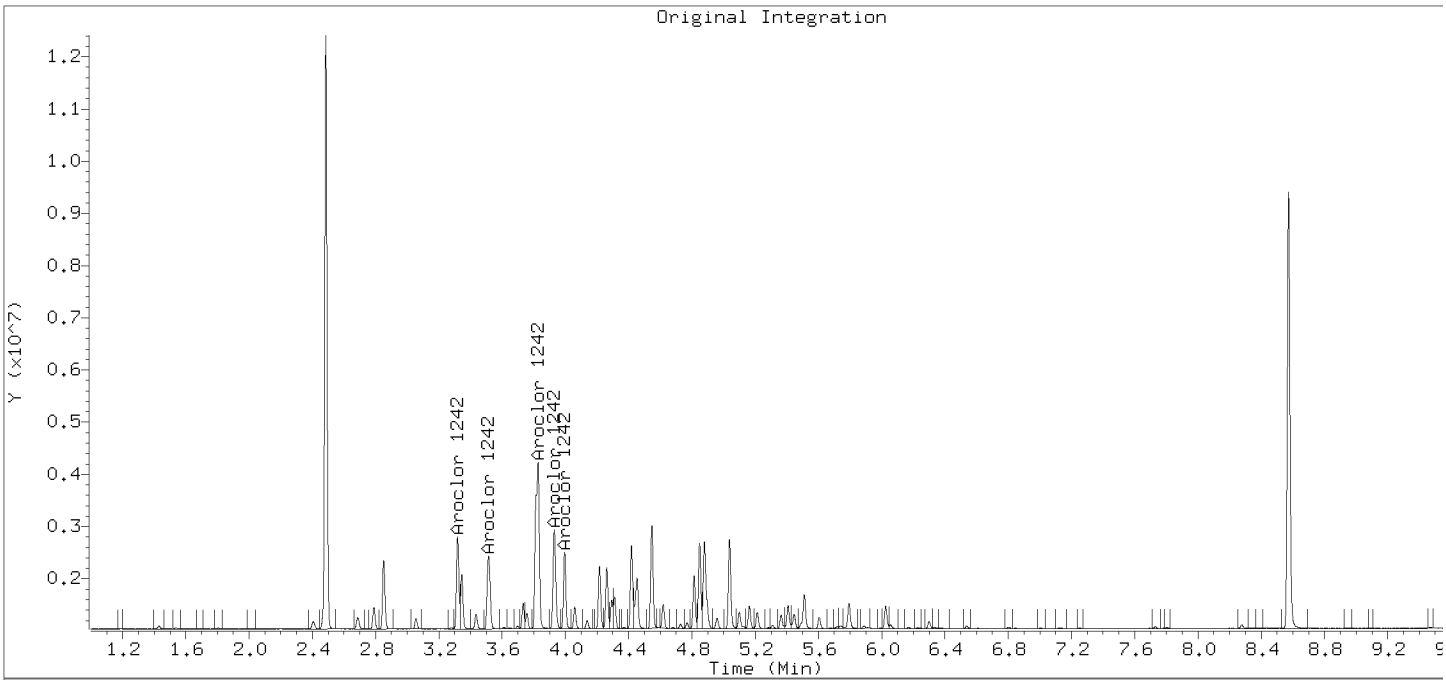
Operator: BLM

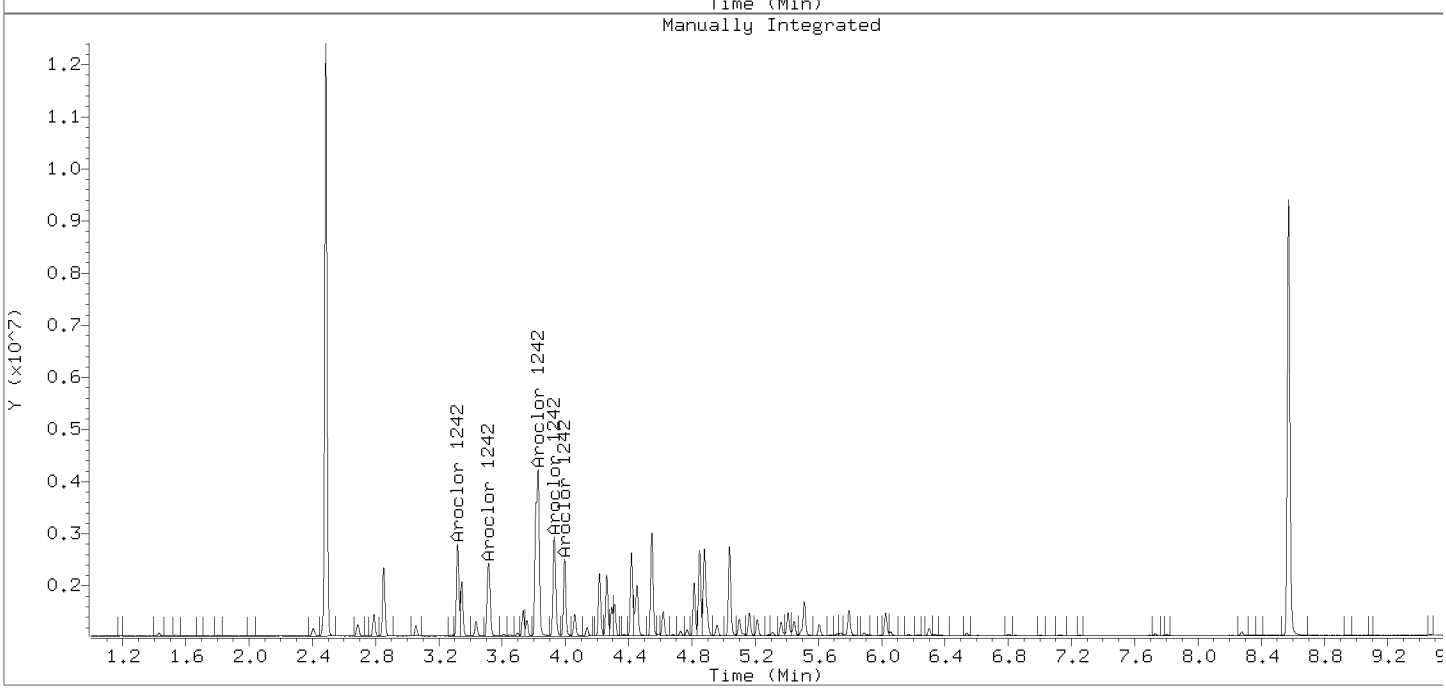
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D

Date : 06-MAR-2018 14:48

Client ID: 1242-CAL5B

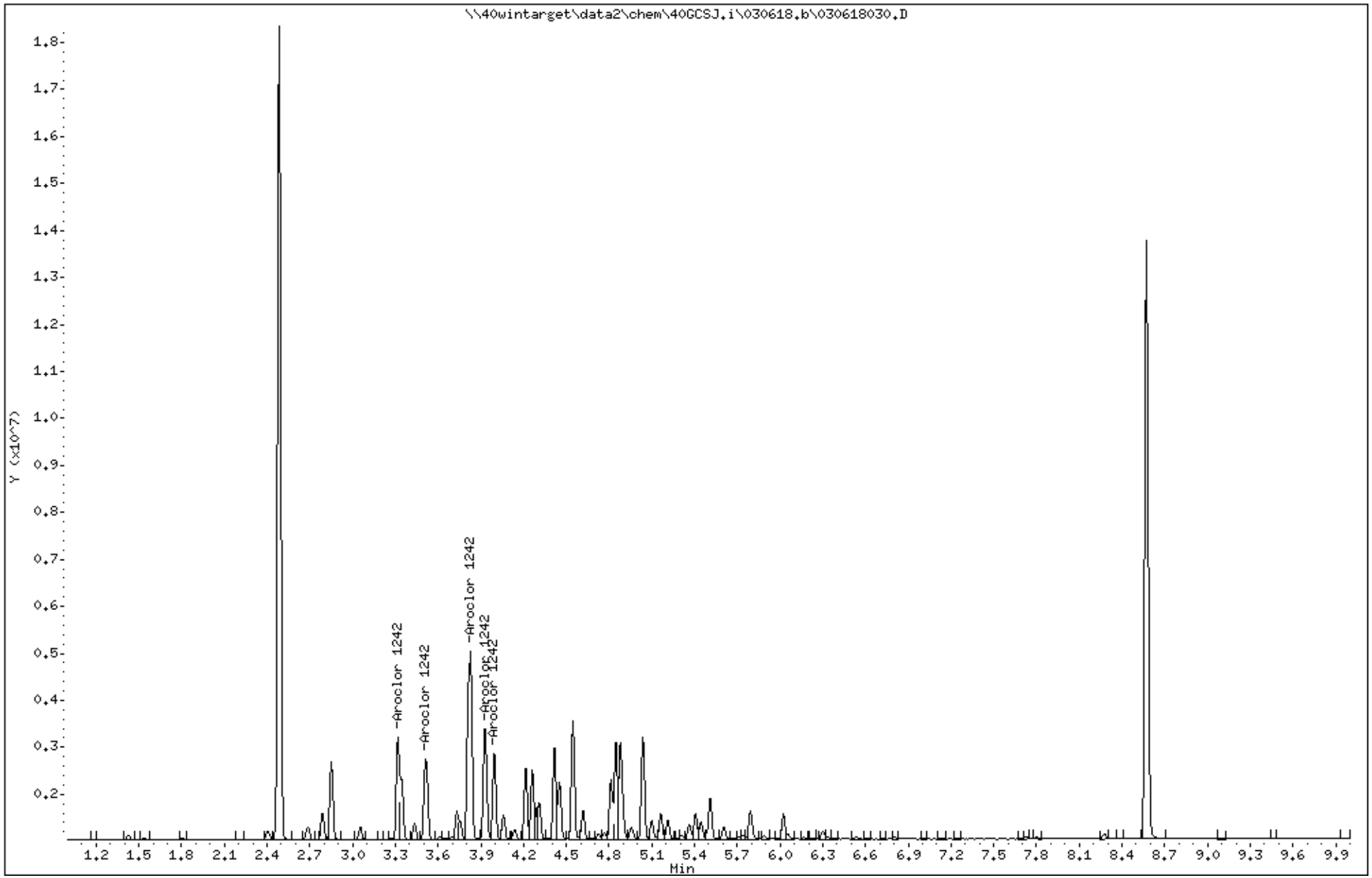
Instrument: 40GCSJ.i

Sample Info: 1242-CAL5B, 185546:1

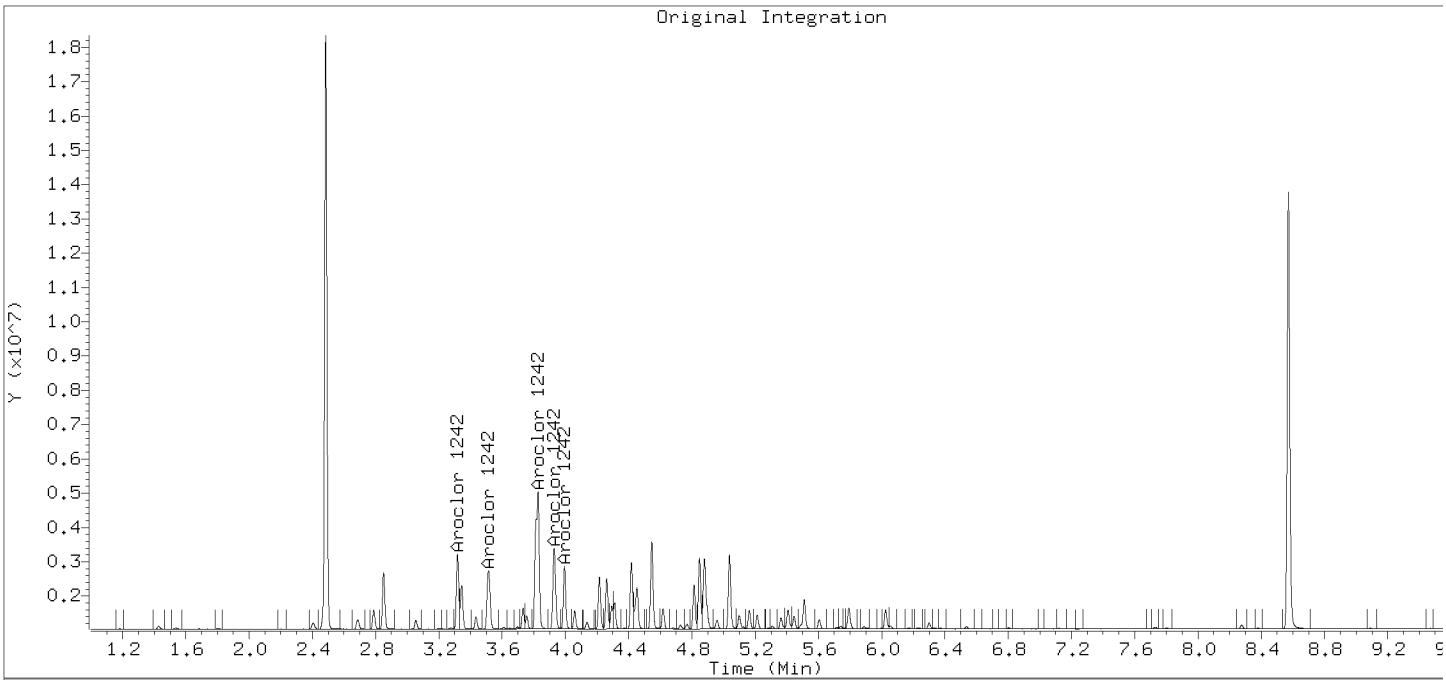
Operator: BLM

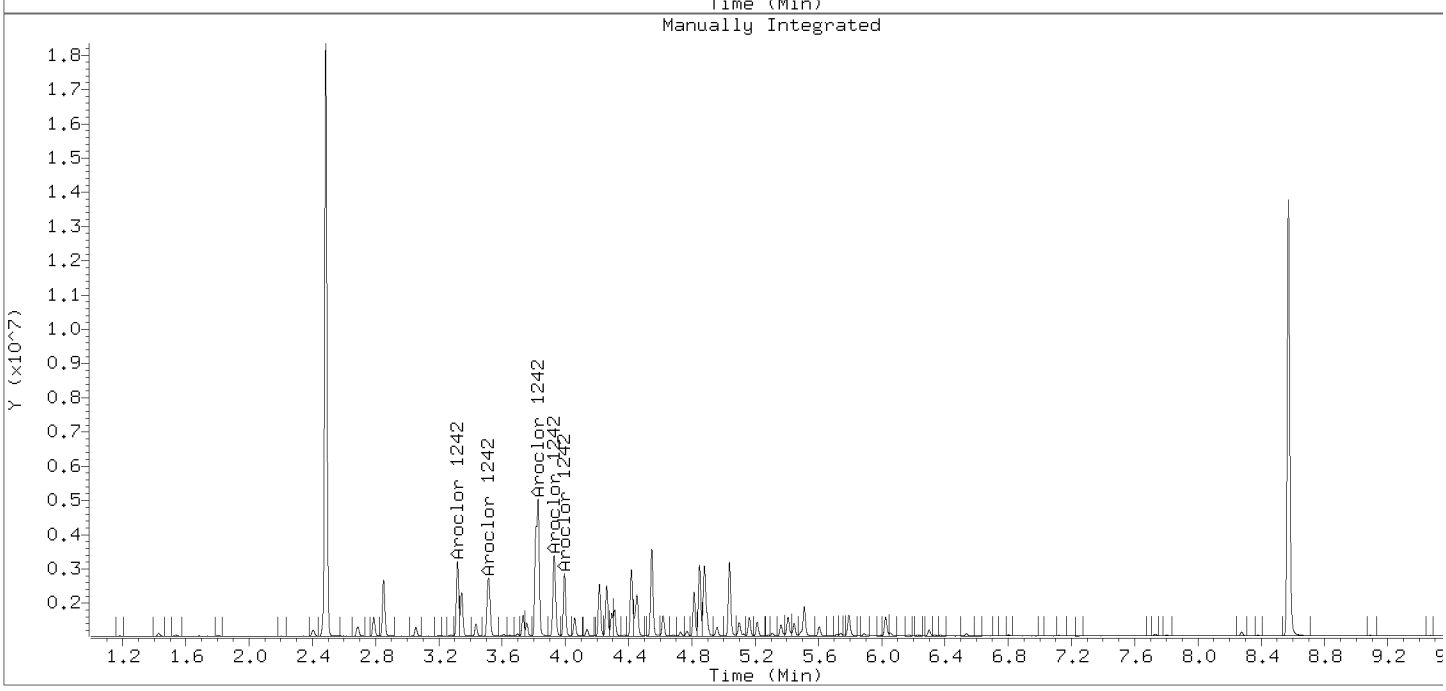
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

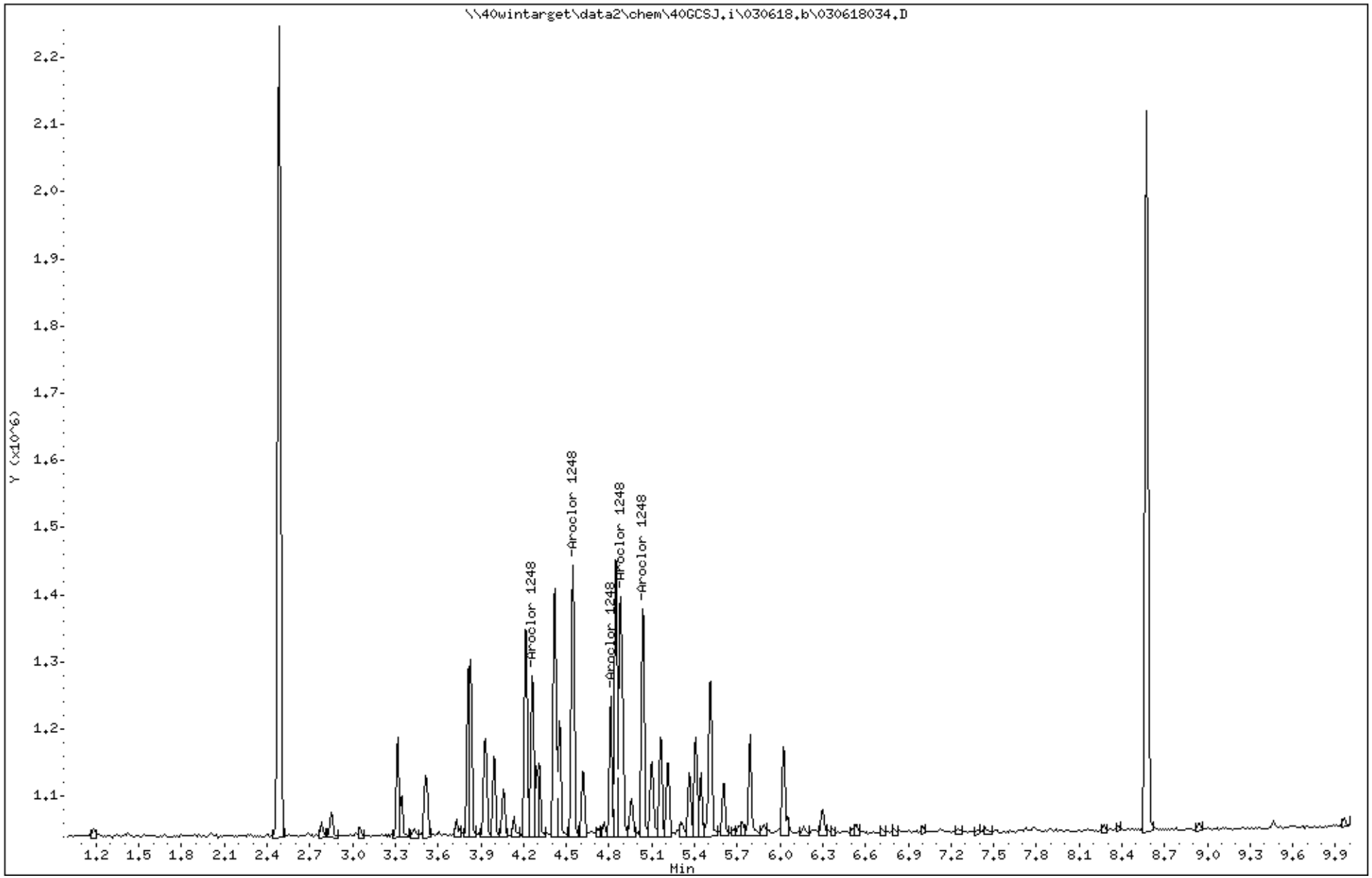
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSJ.i

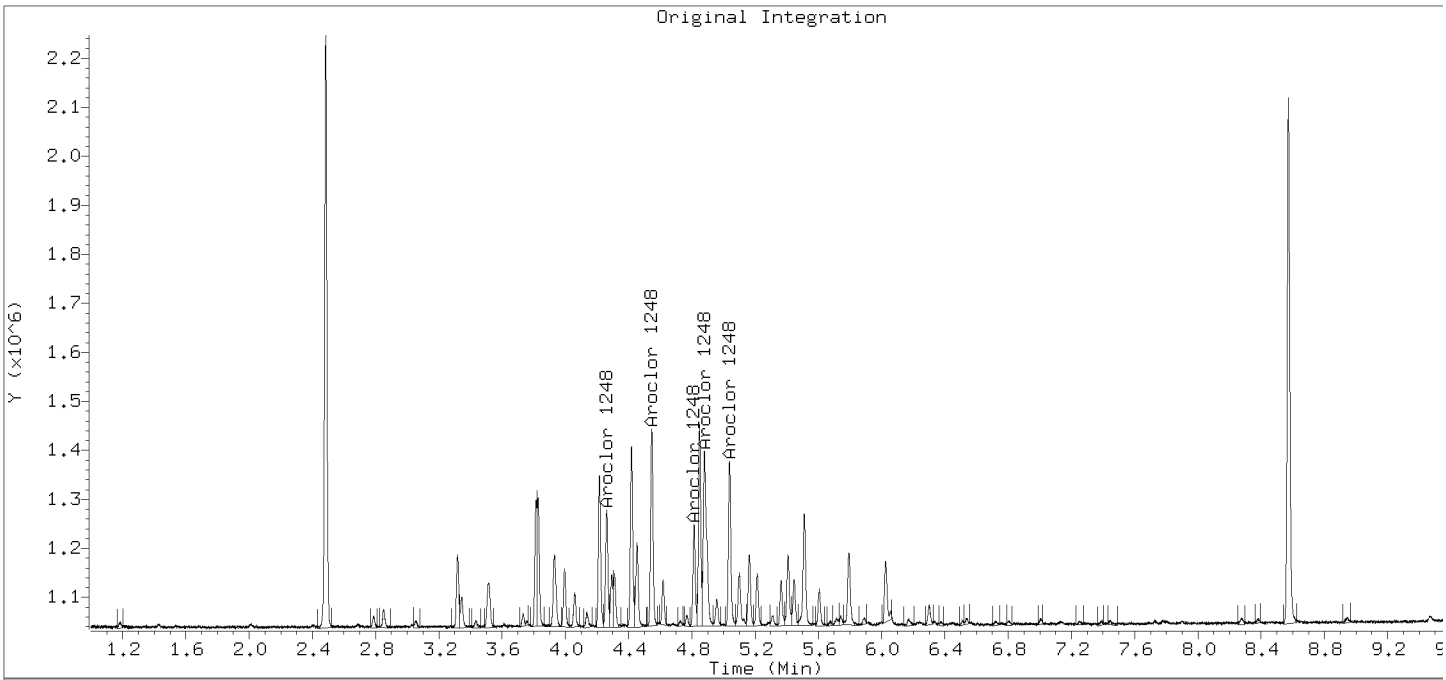
Operator: BLM

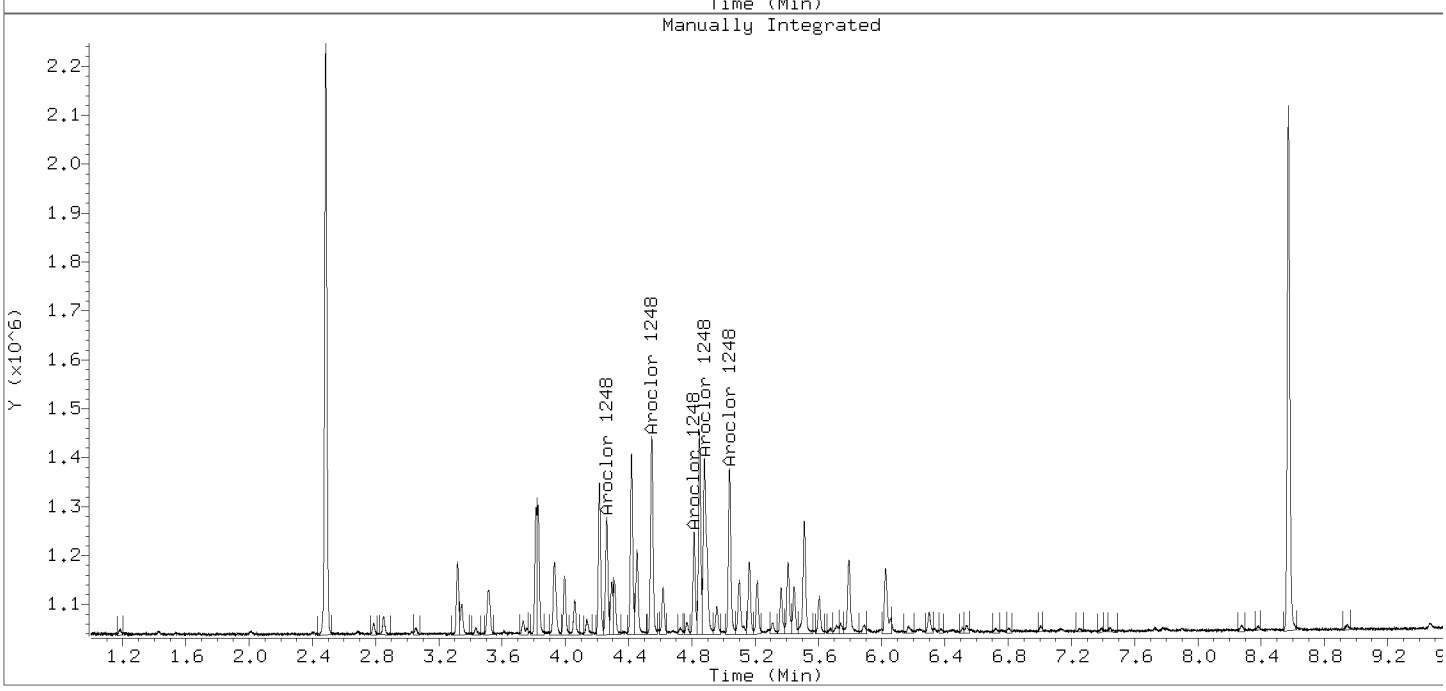
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 15:37

Client ID: 1248-CAL2D

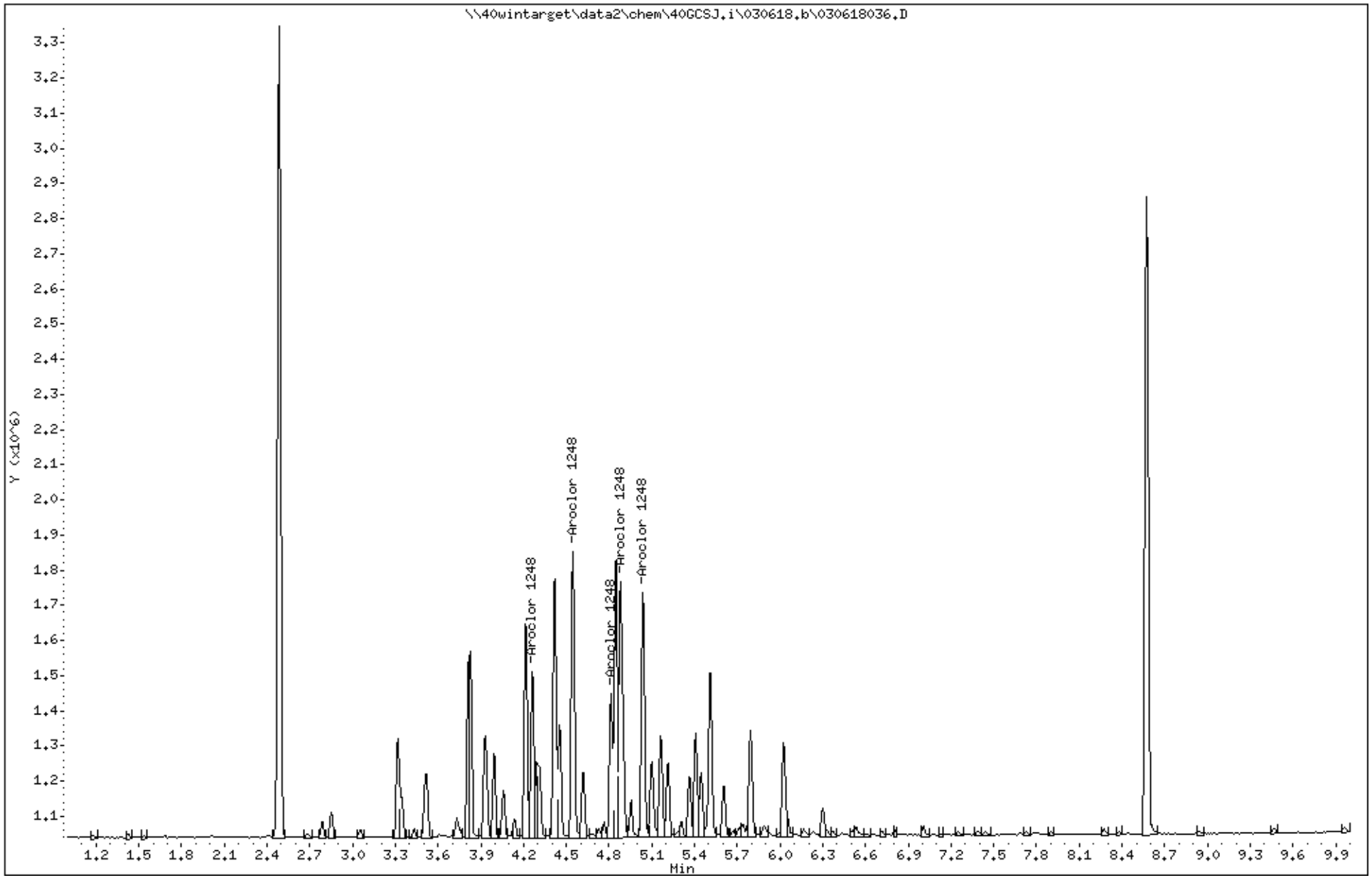
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

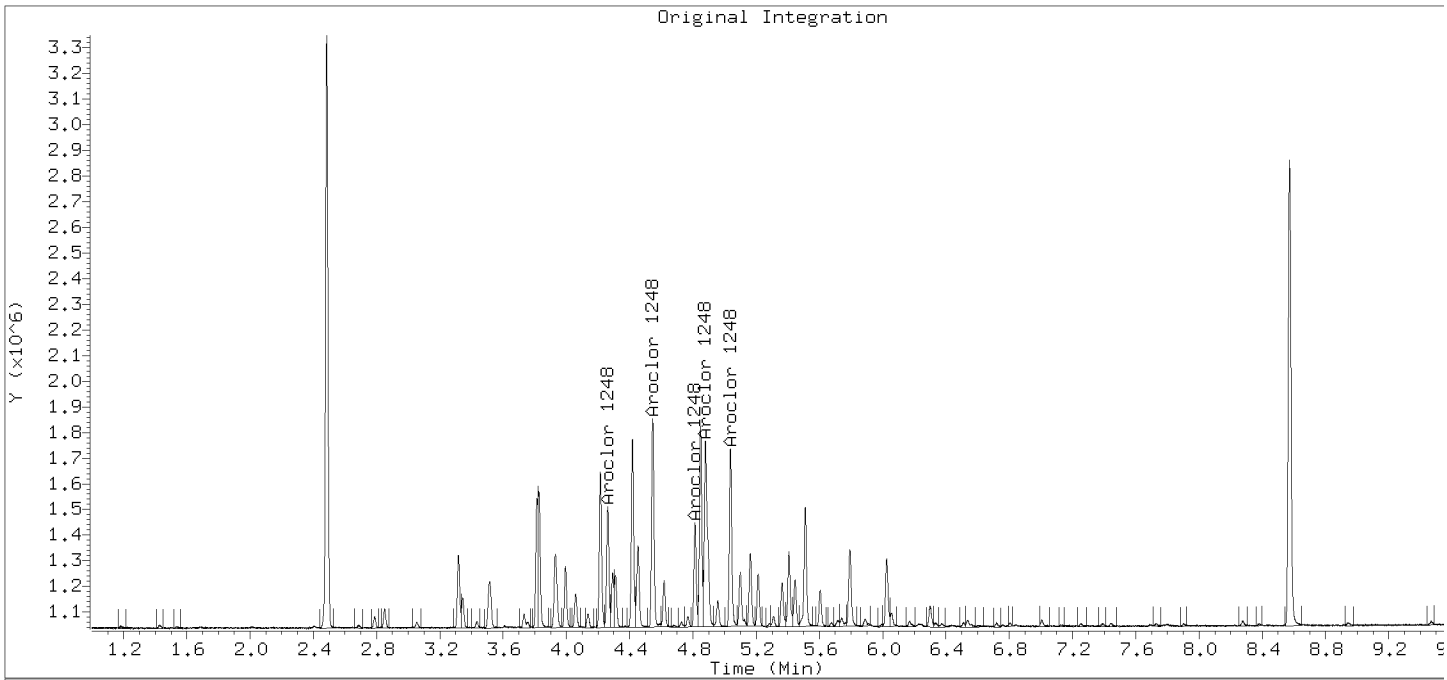
Operator: BLM

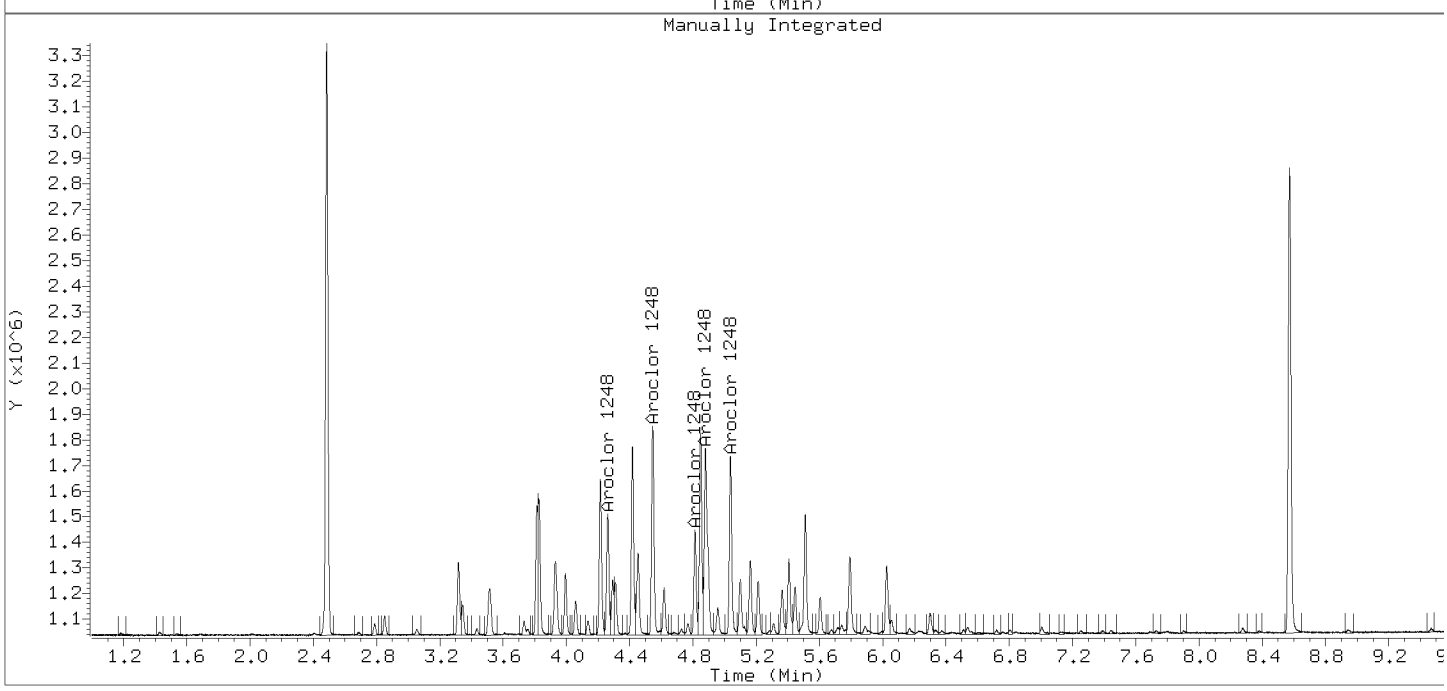
Column phase: ZB-1ms

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

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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

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SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 15:53

Client ID: 1248-CAL3D

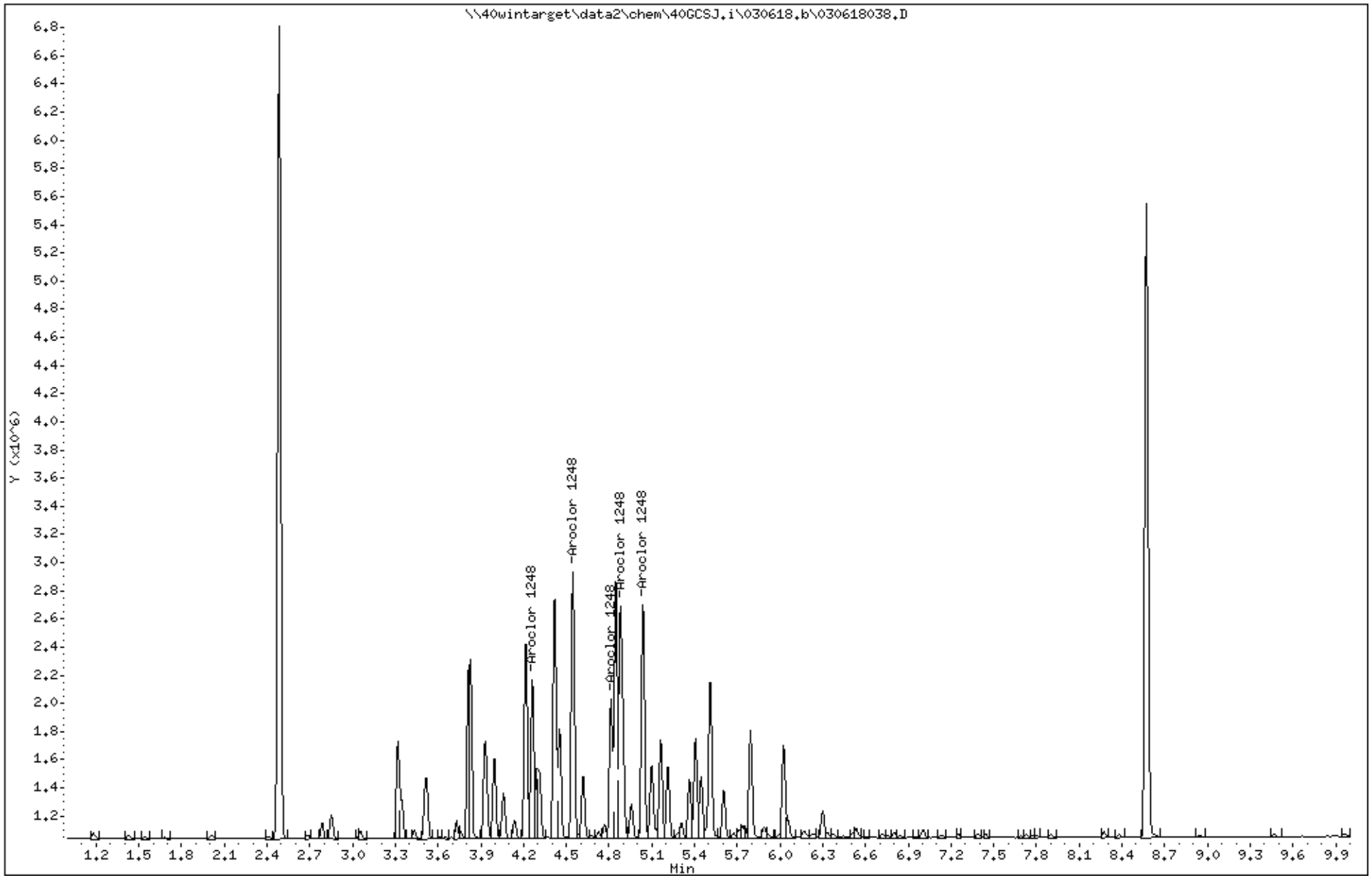
Instrument: 40GCSJ.i

Sample Info: 1248-CAL3D, 185549:1

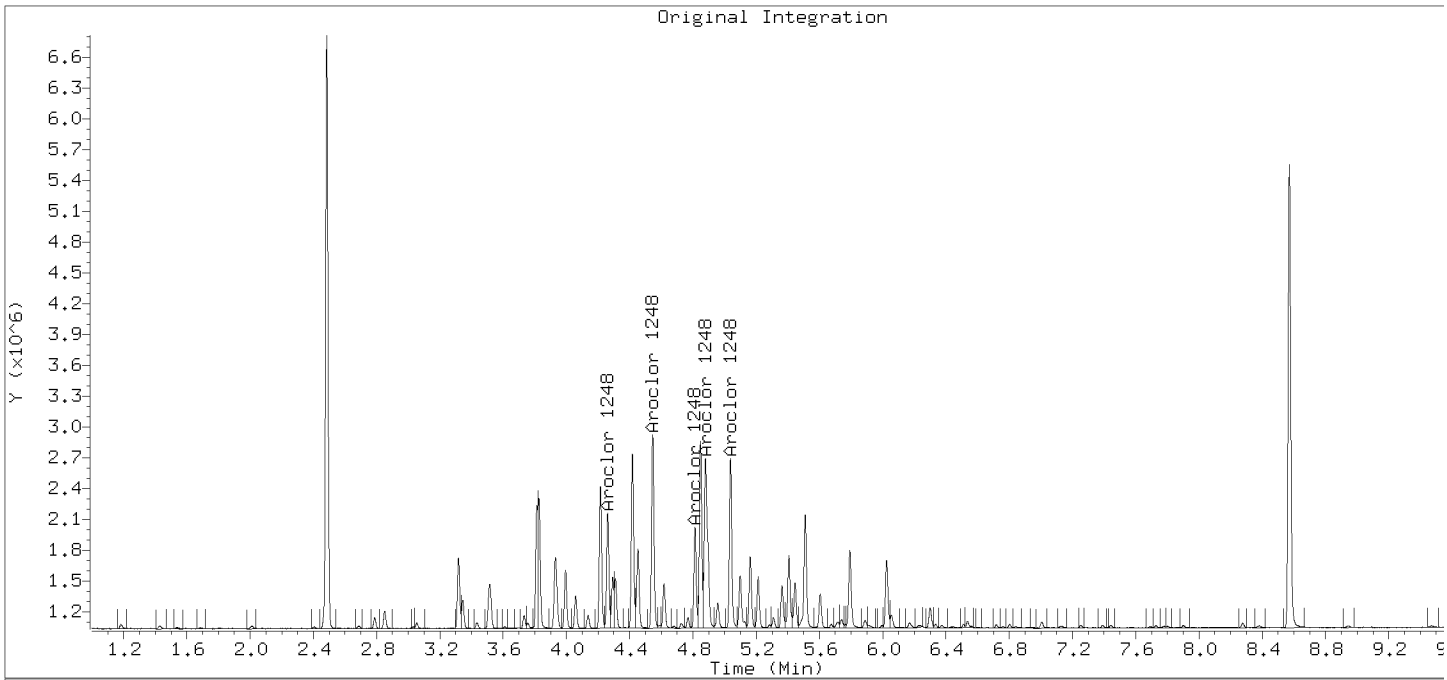
Operator: BLM

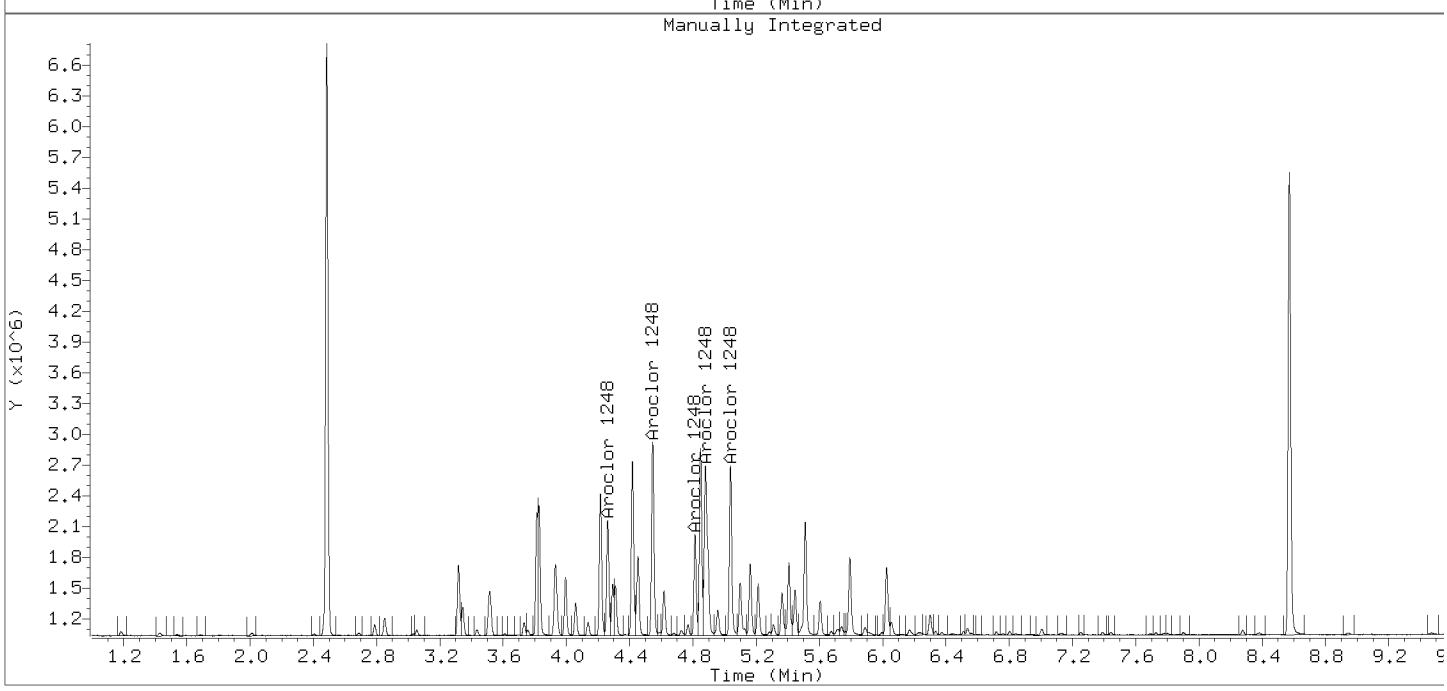
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

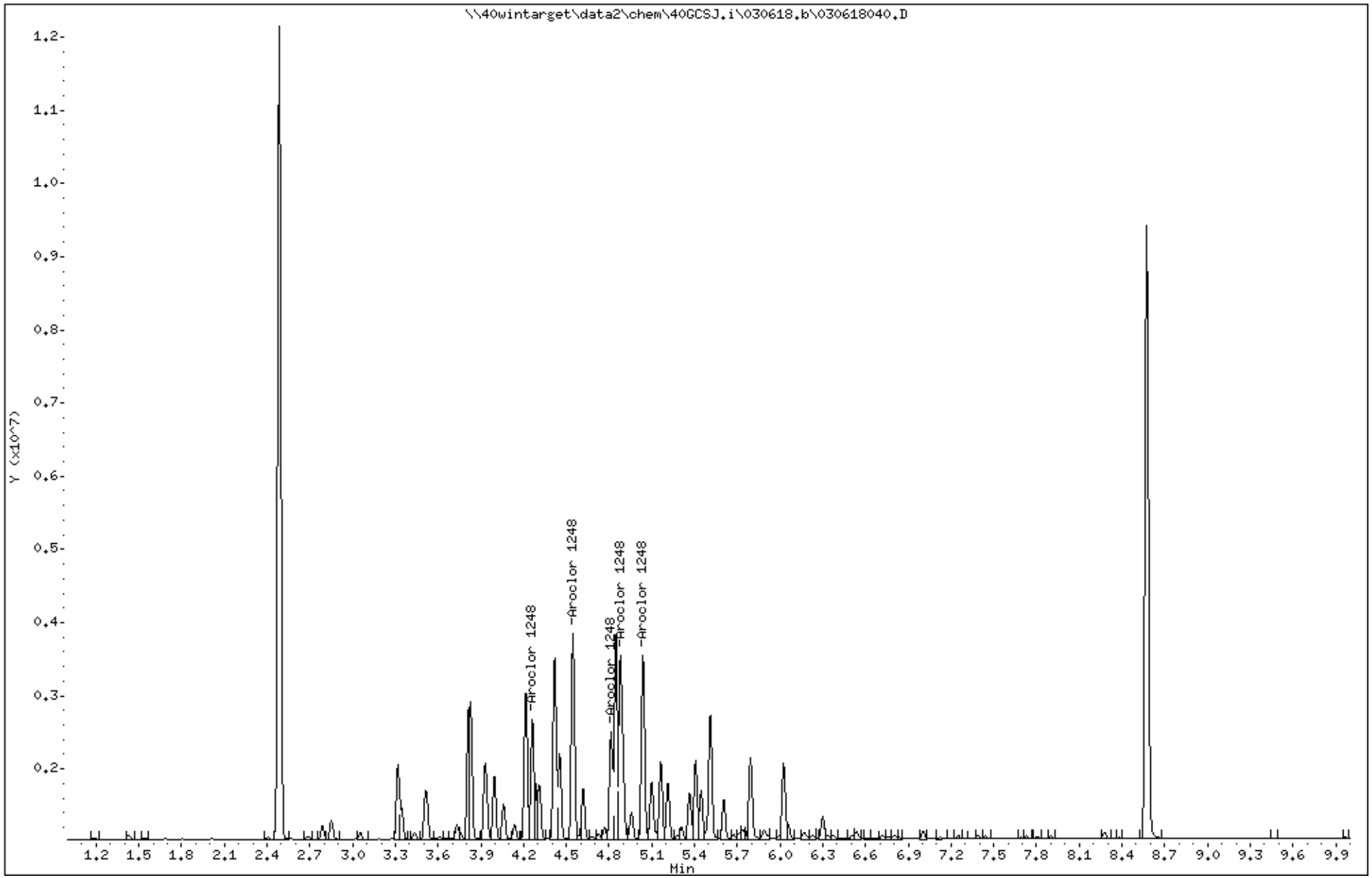
M - Compound response manually integrated.

Review Codes Legend

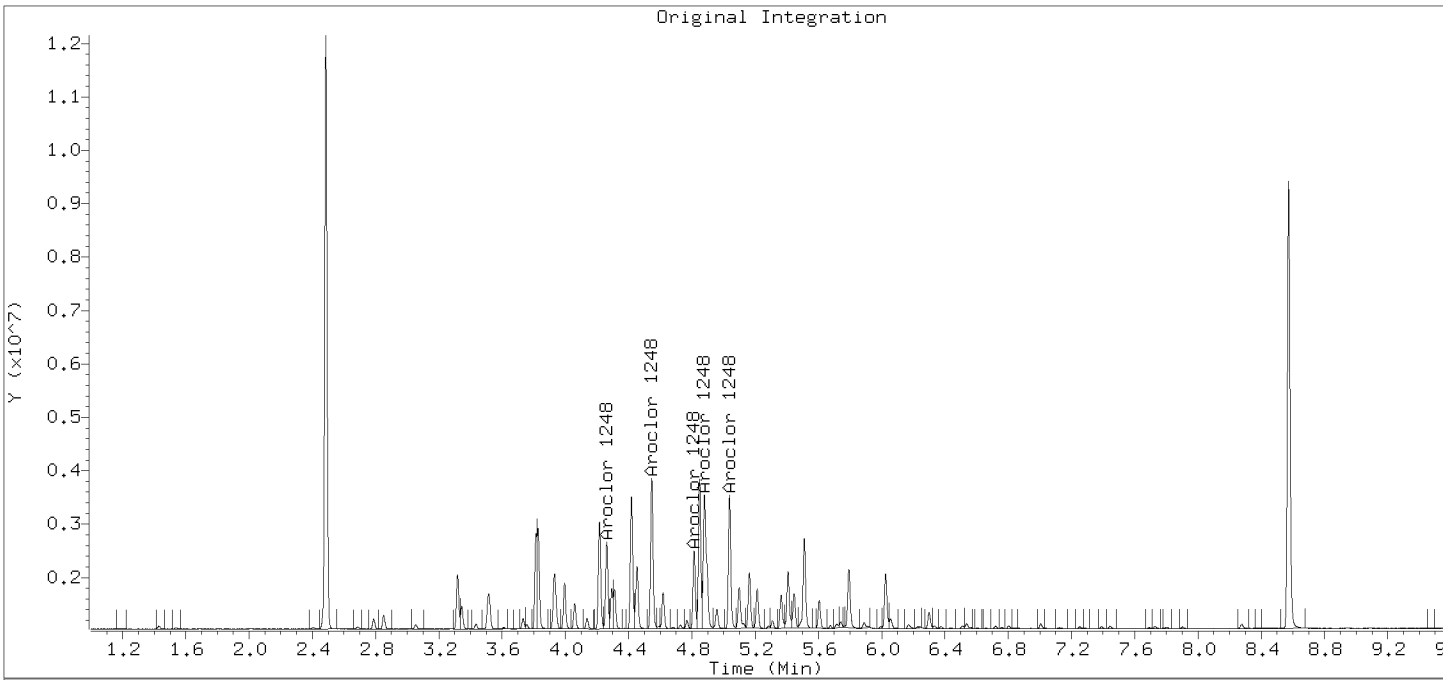
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

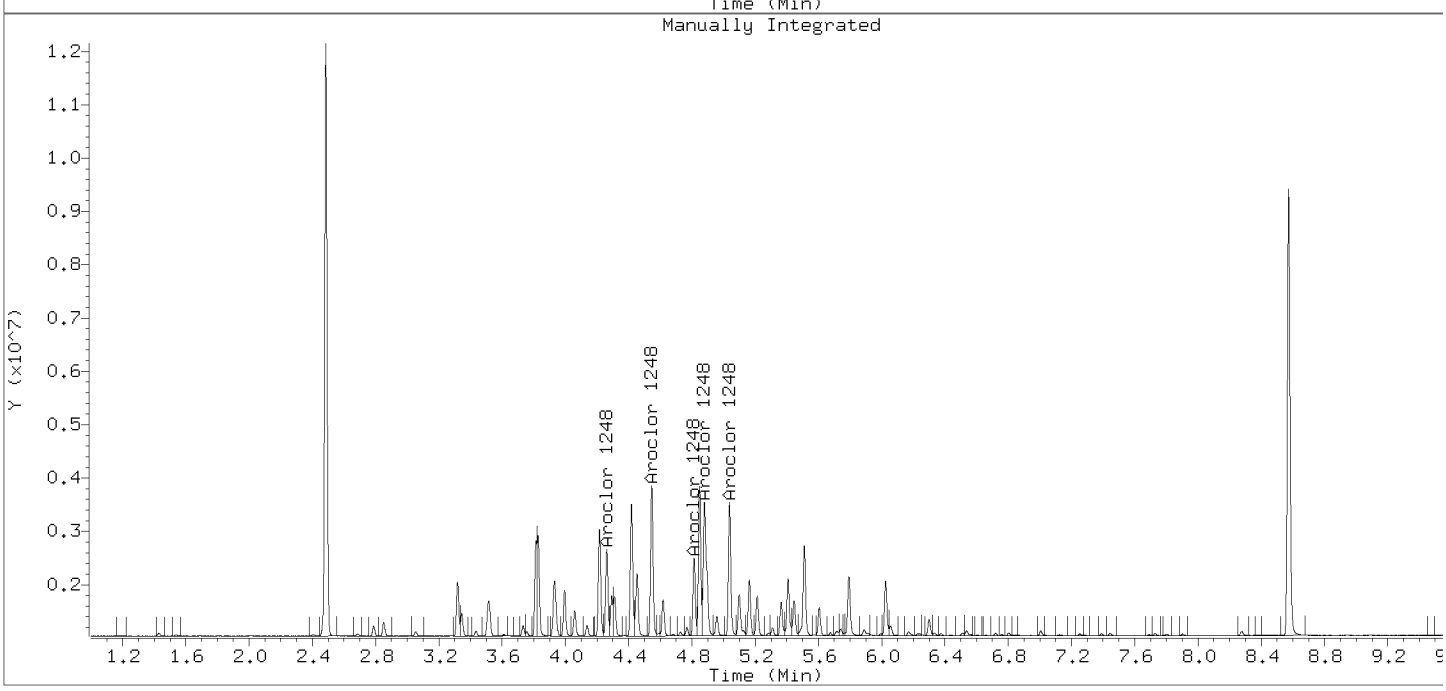
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D
Date : 06-MAR-2018 16:09
Client ID: 1248-CAL4D
Sample Info: 1248-CAL4D, 185550:1

Instrument: 40GCSJ.i
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

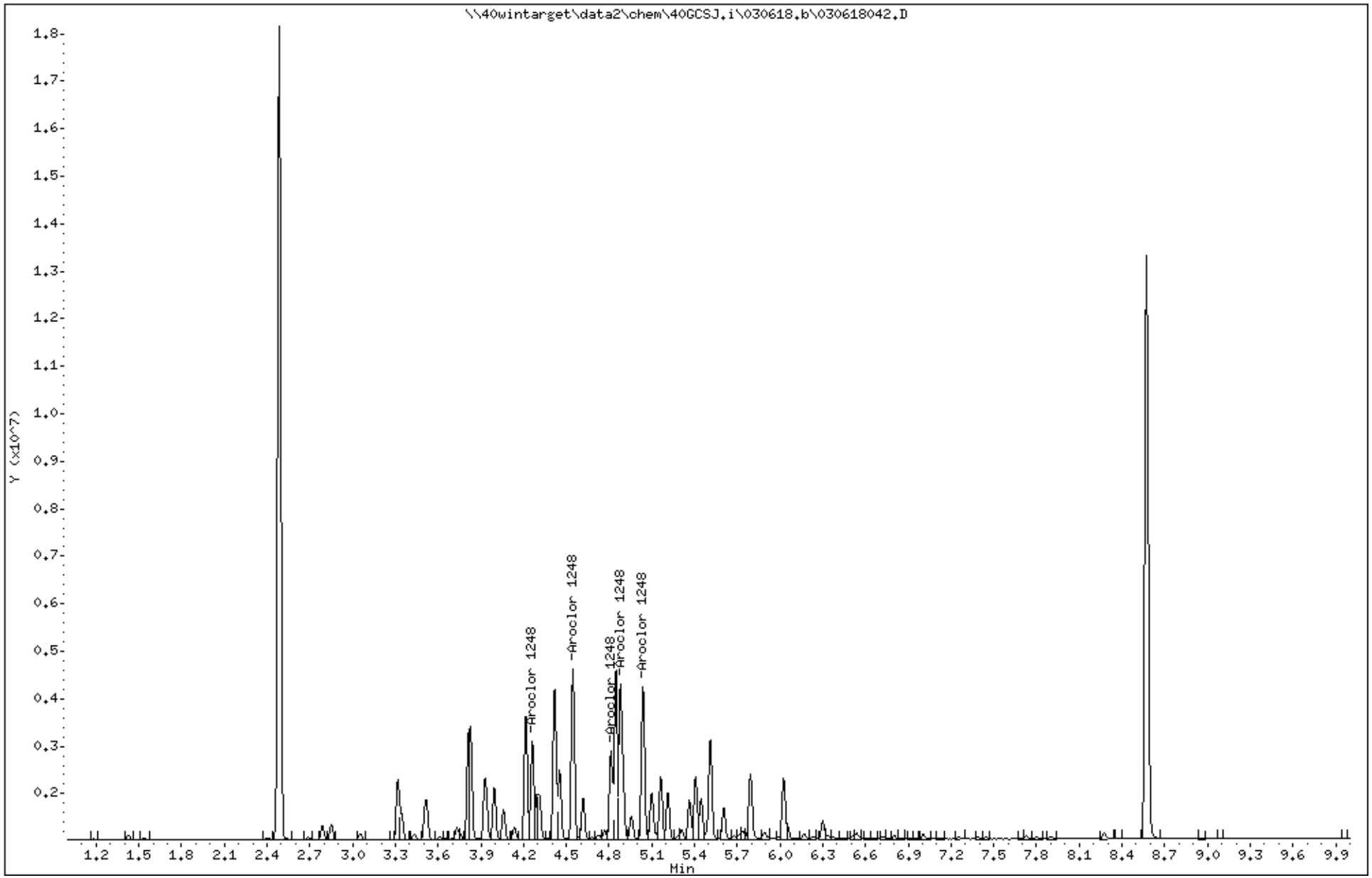
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

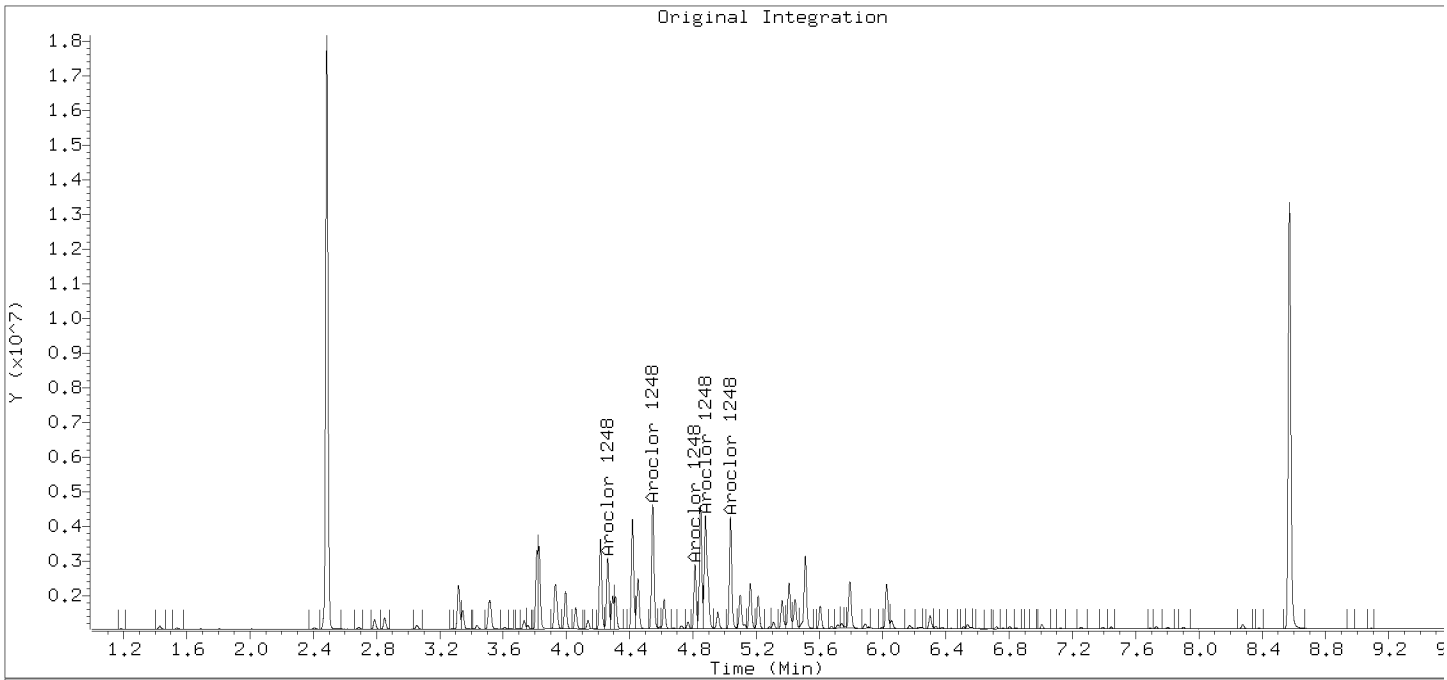
Operator: BLM

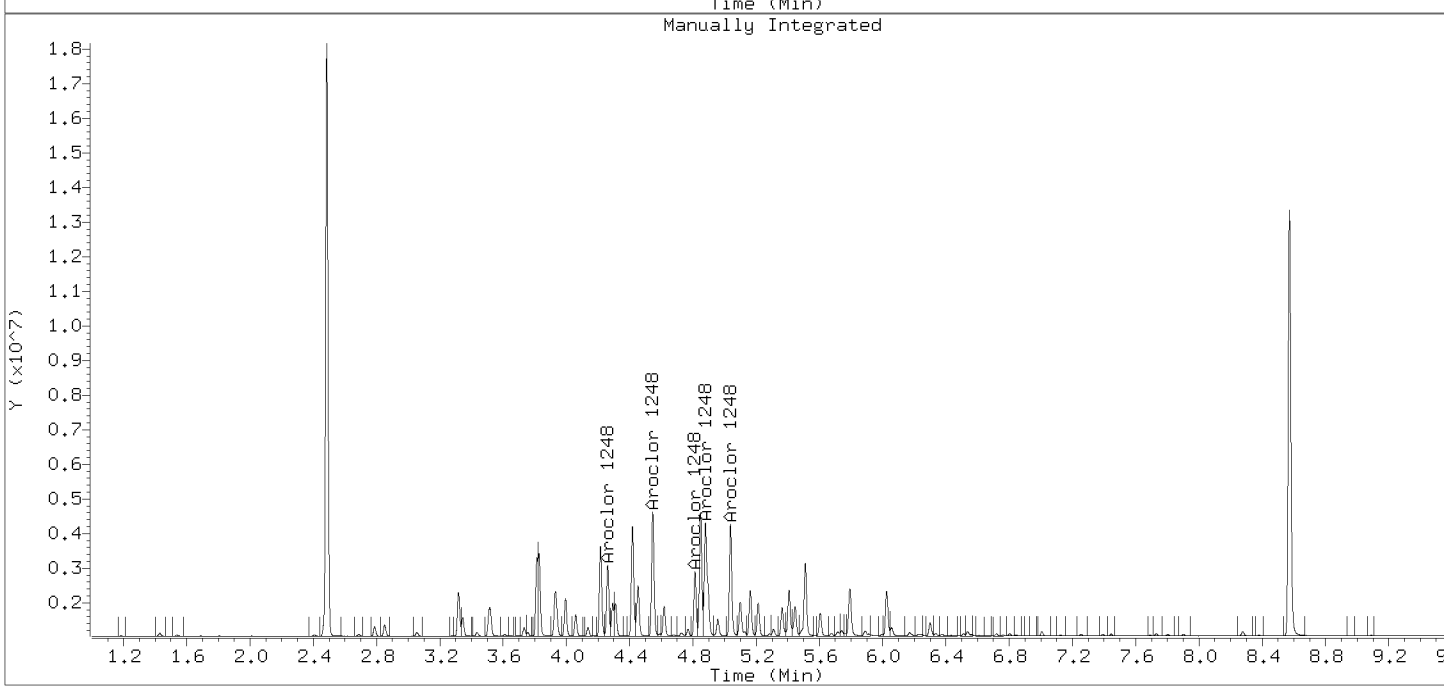
Column phase: ZB-1ms

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

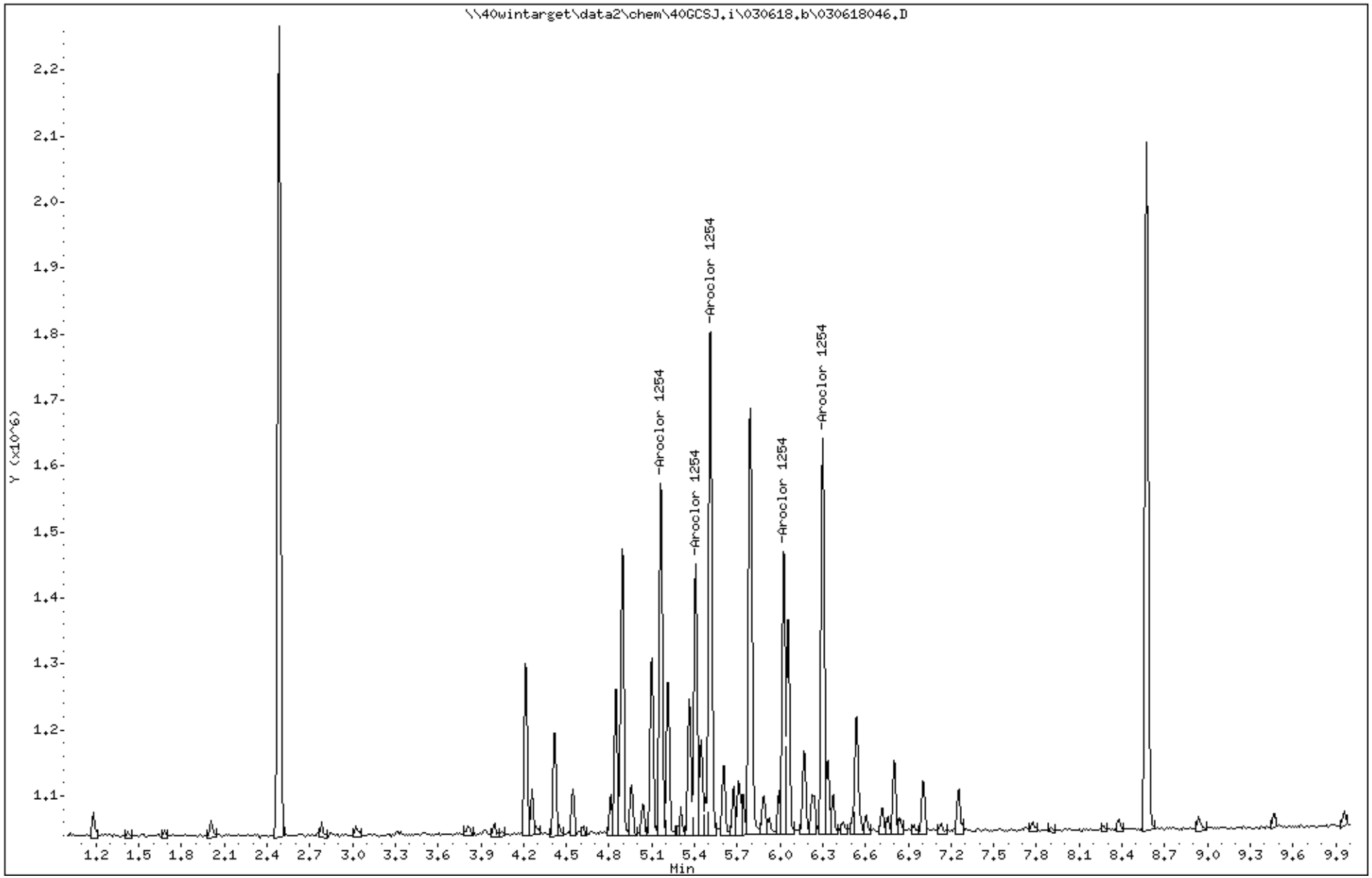
Instrument: 40GCSJ.i

Sample Info: 1254-CAL1C, 188135:1

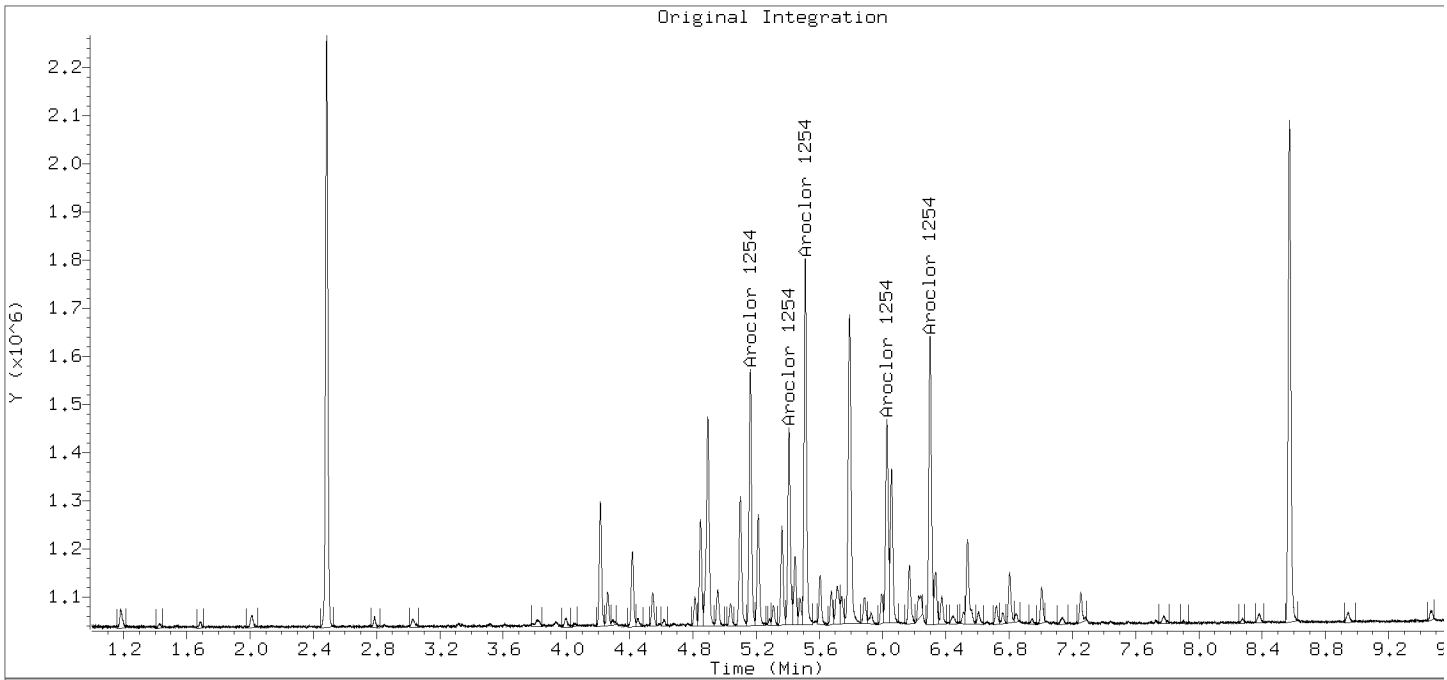
Operator: BLM

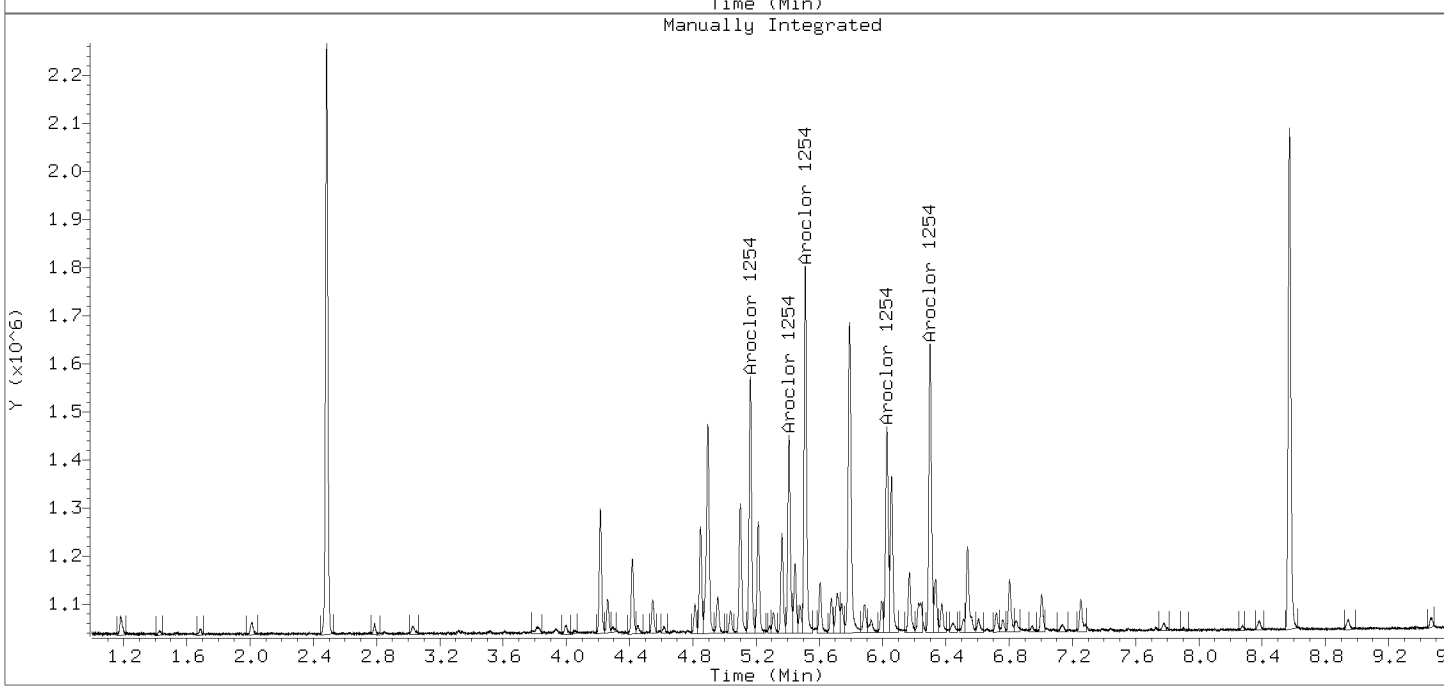
Column phase: ZB-1ms

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.

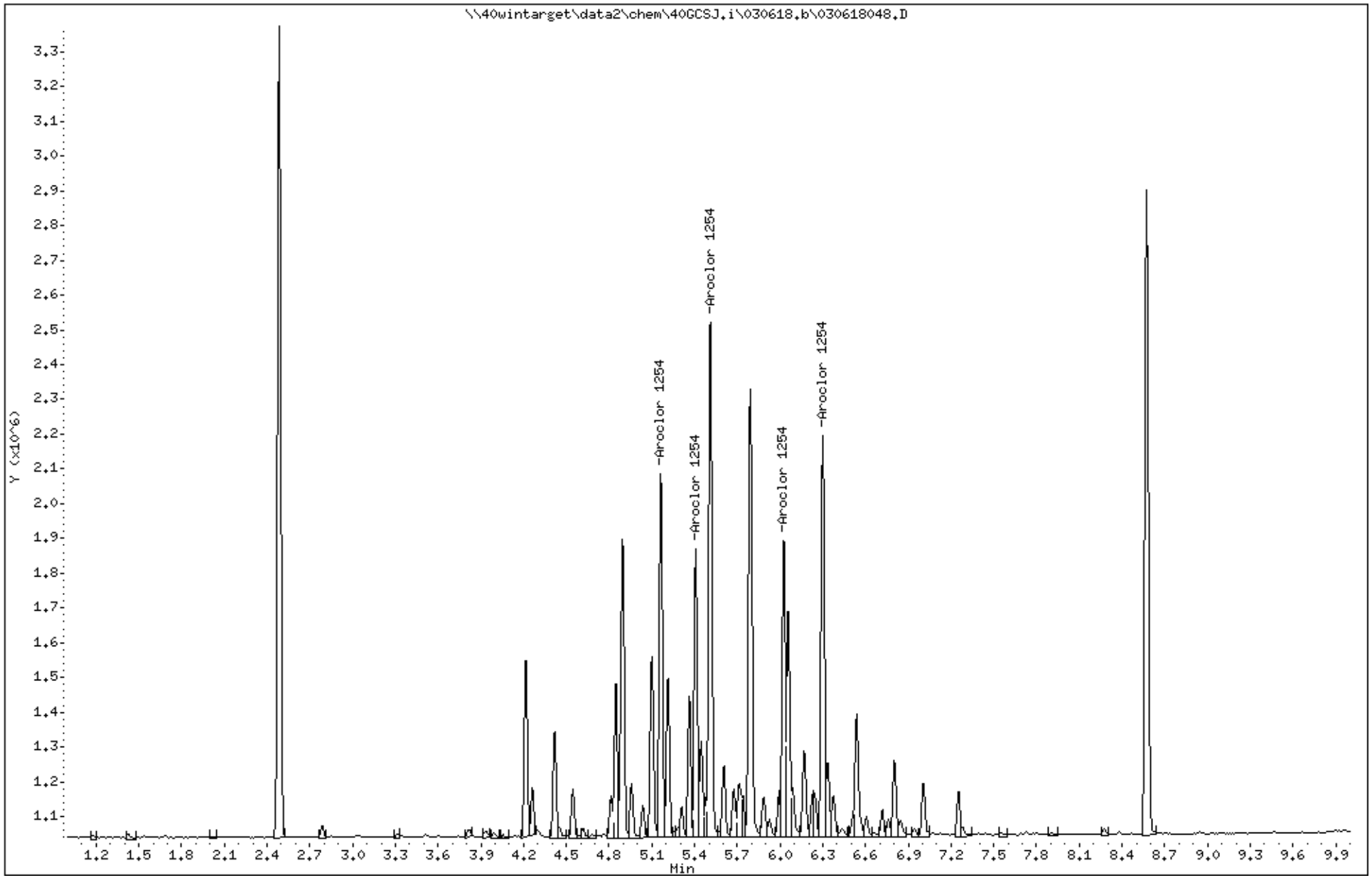
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Date : 06-MAR-2018 17:13
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

Instrument: 40GCSJ.i

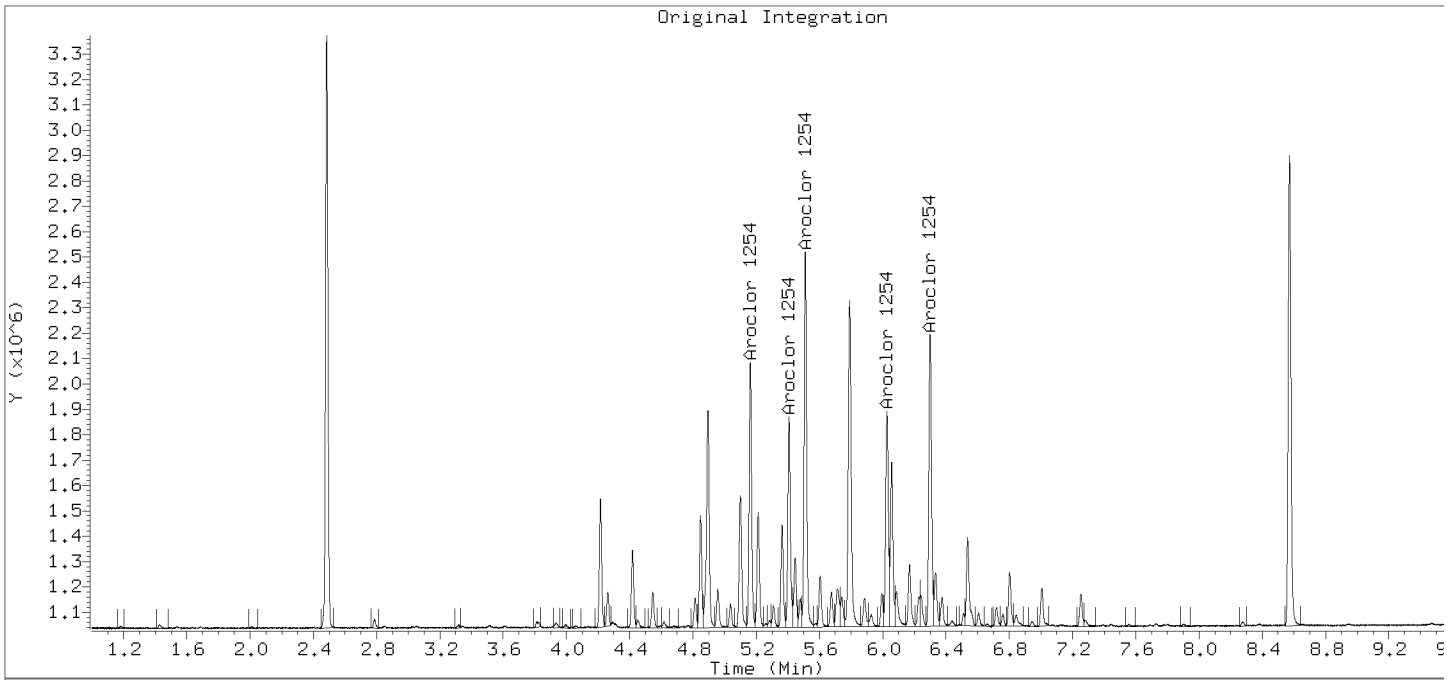
Operator: BLM

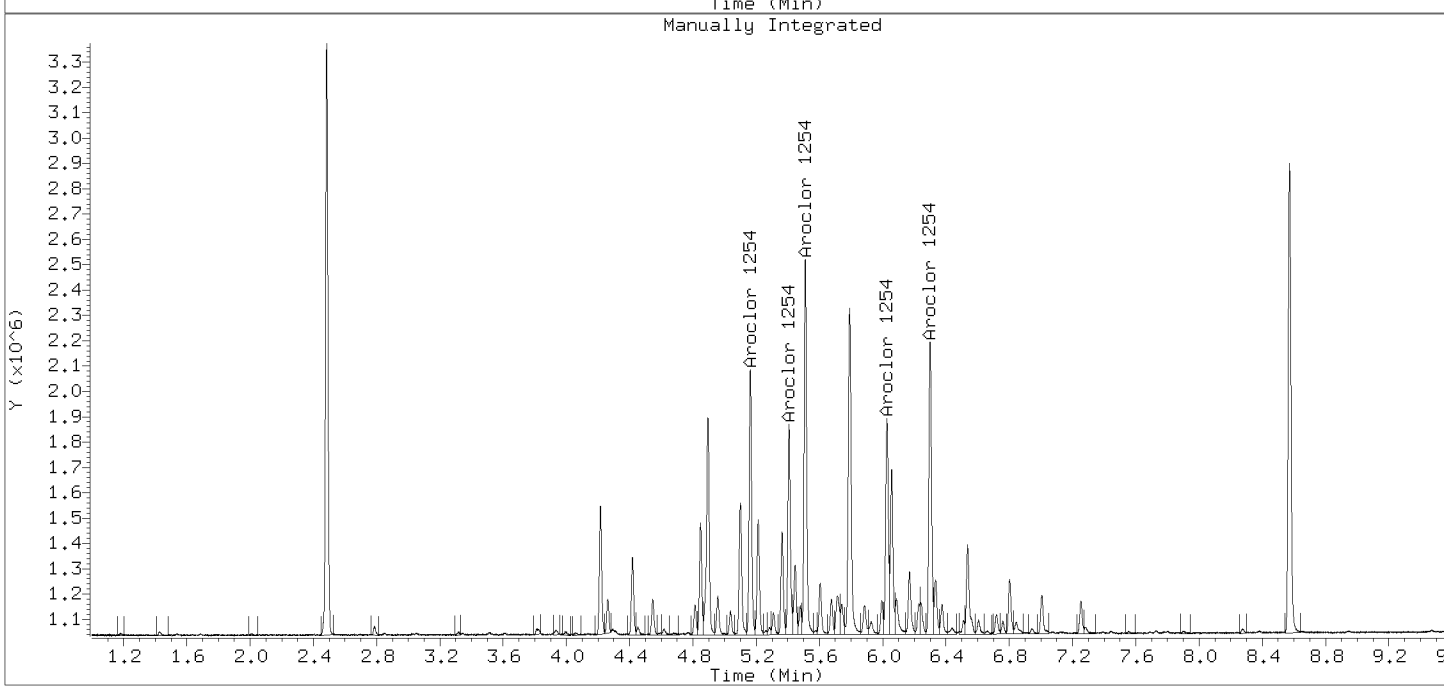
Column phase: ZB-1ms

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

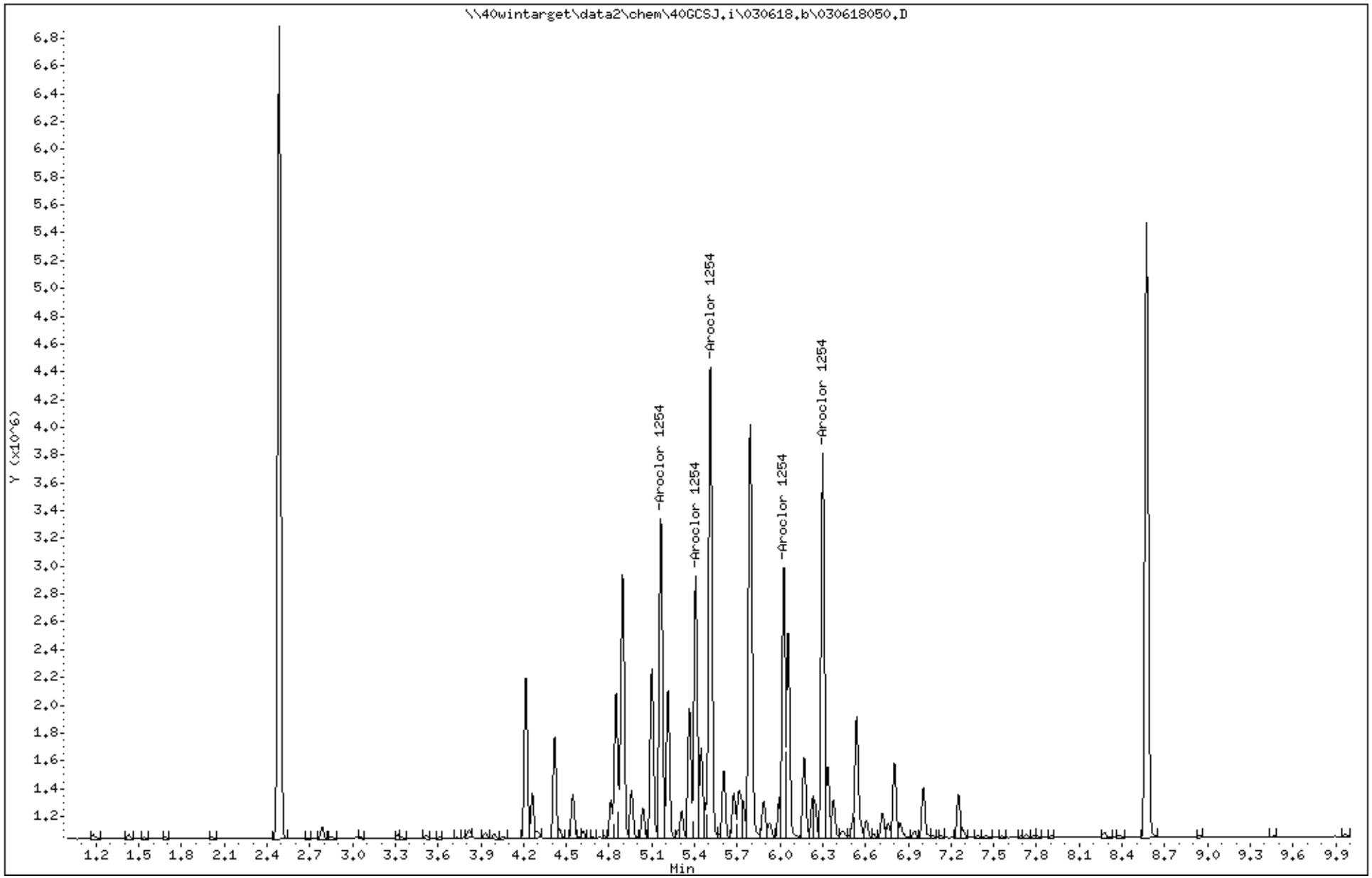
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

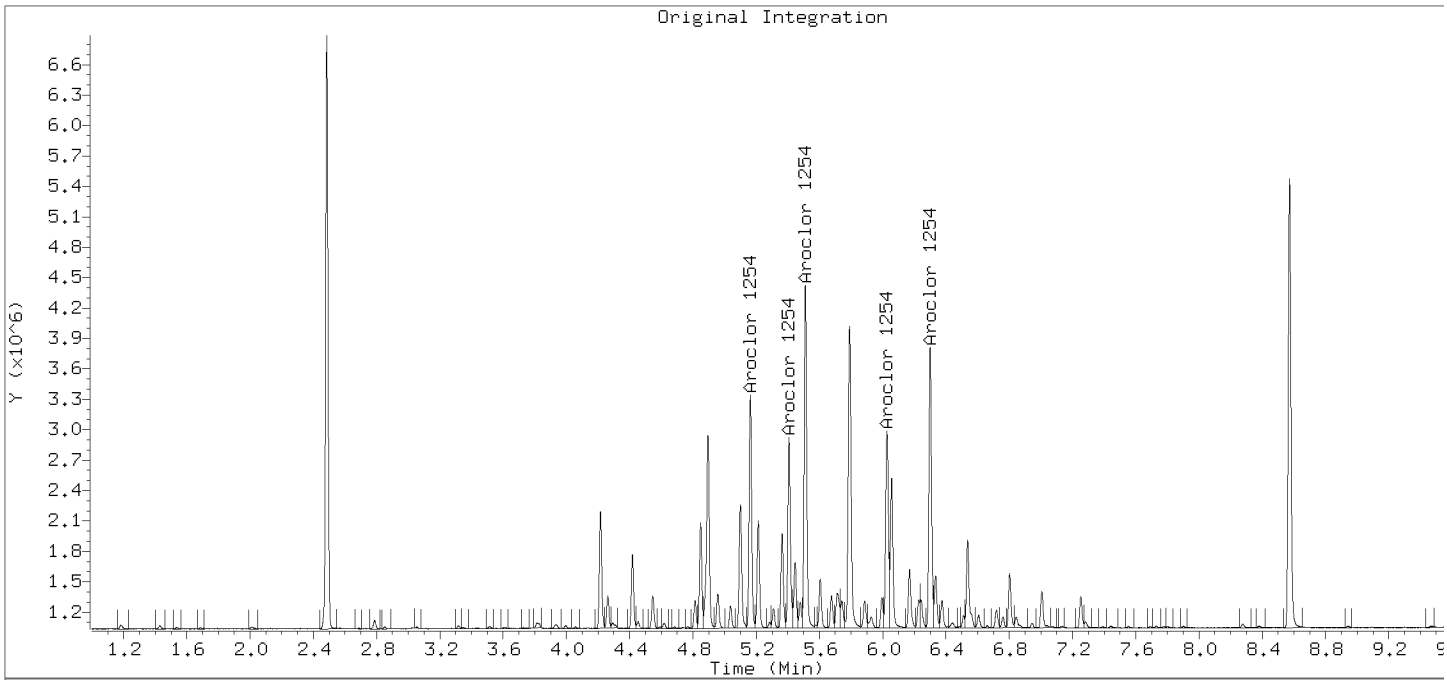
Operator: BLM

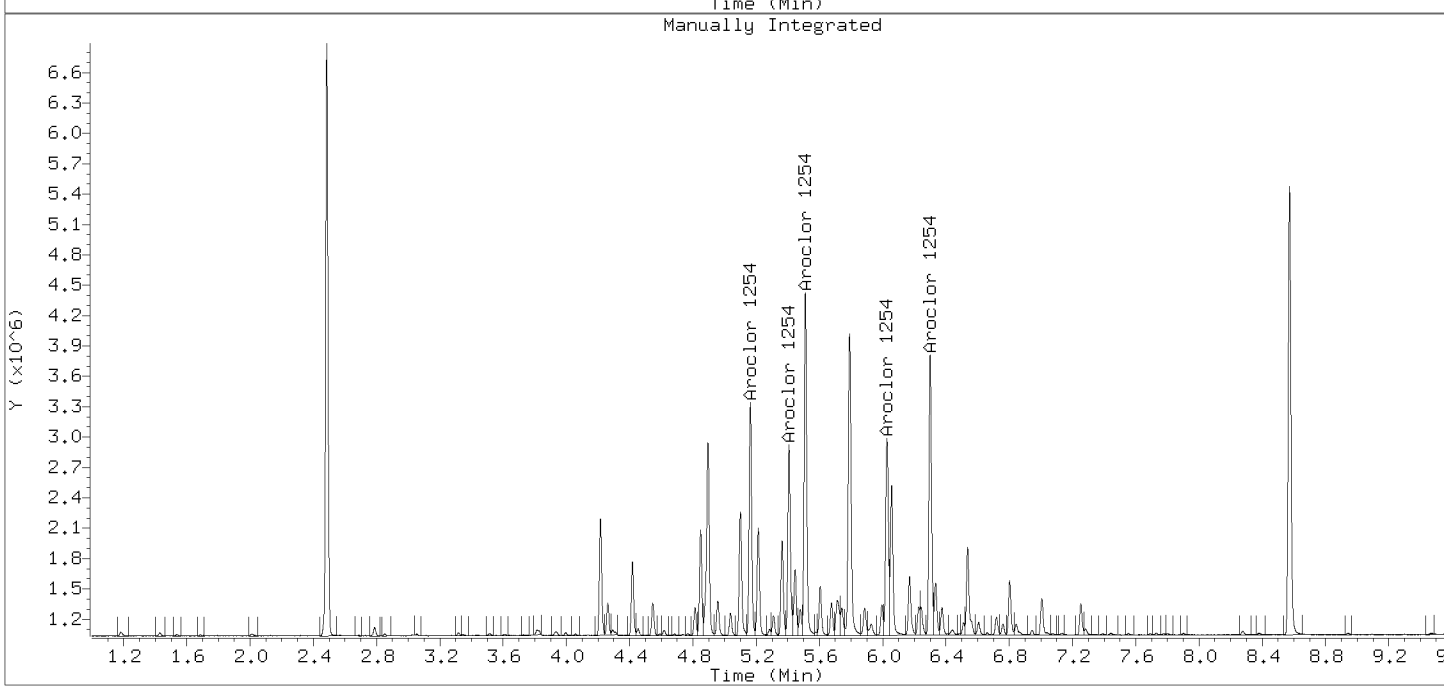
Column phase: ZB-1ms

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

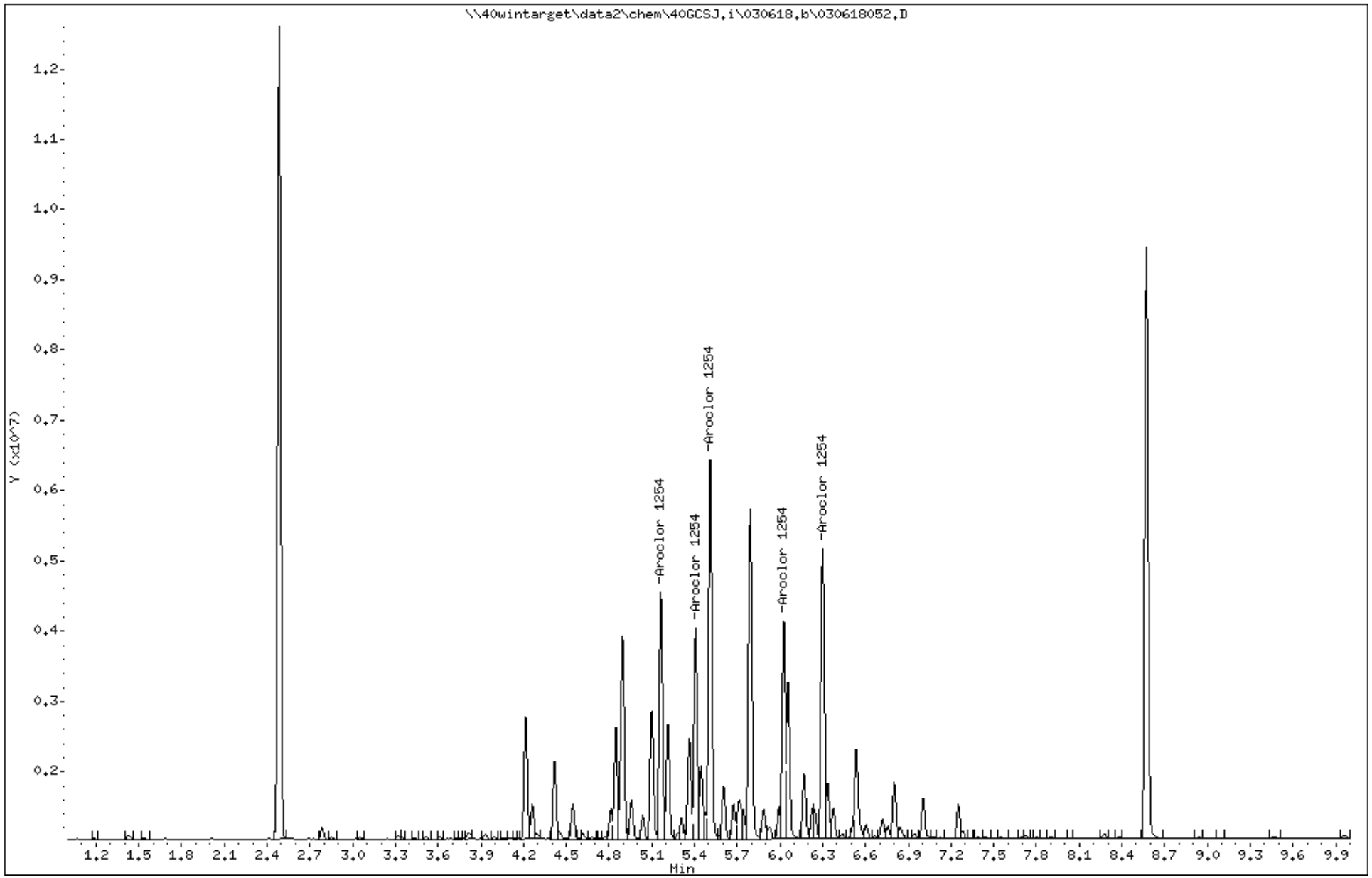
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

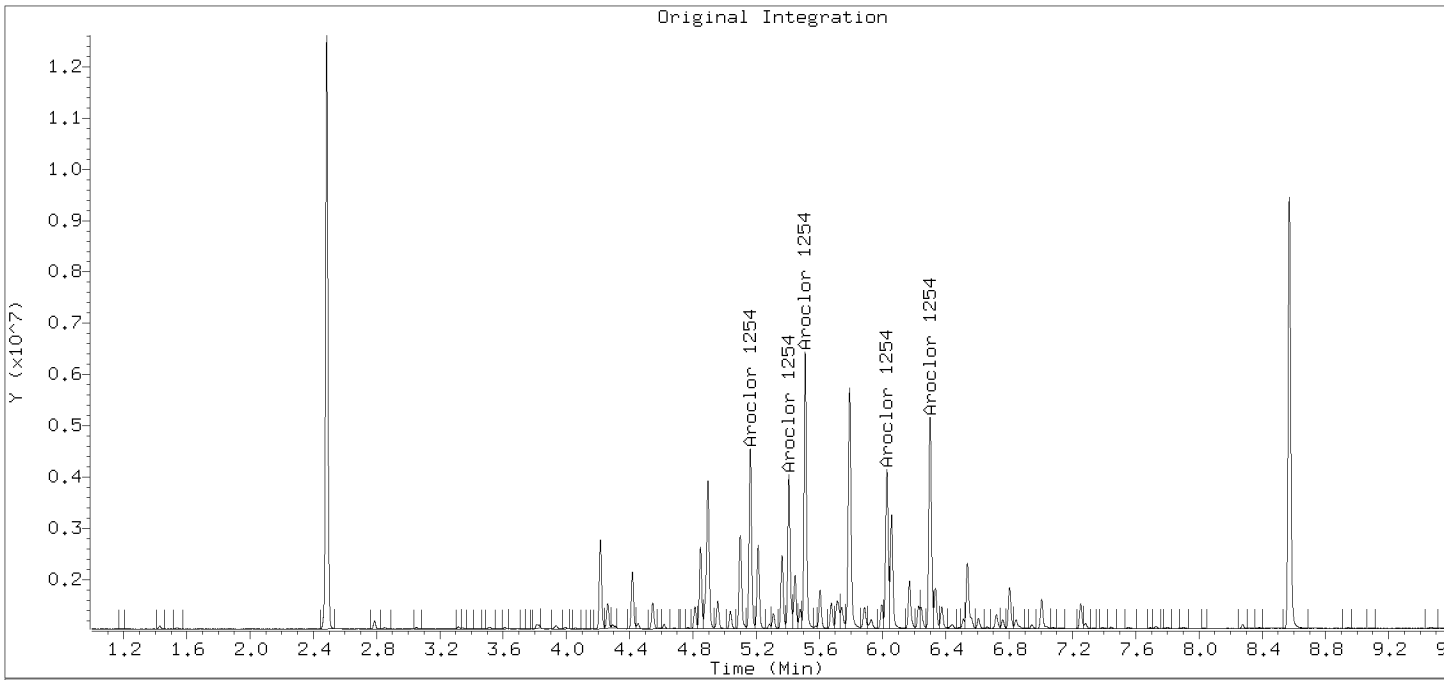
Operator: BLM

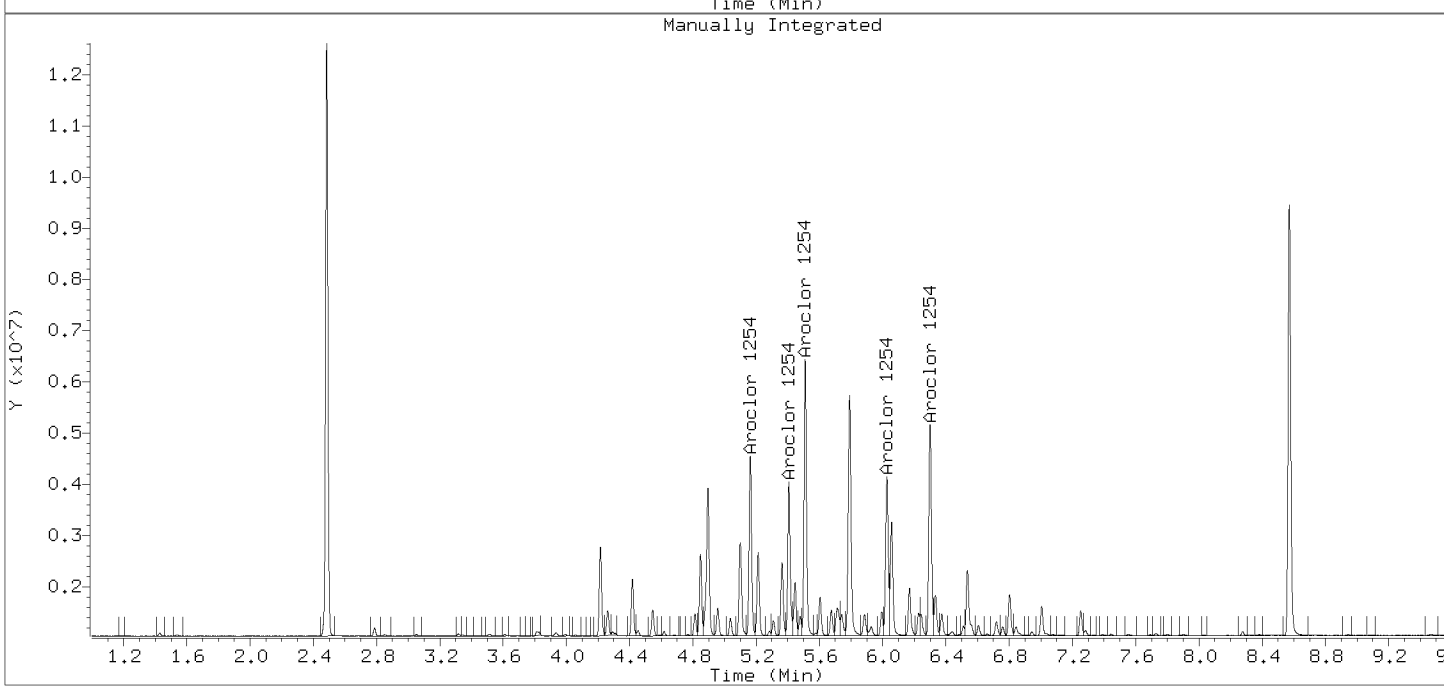
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D

Date : 06-MAR-2018 18:02

Client ID: 1254-CAL5C

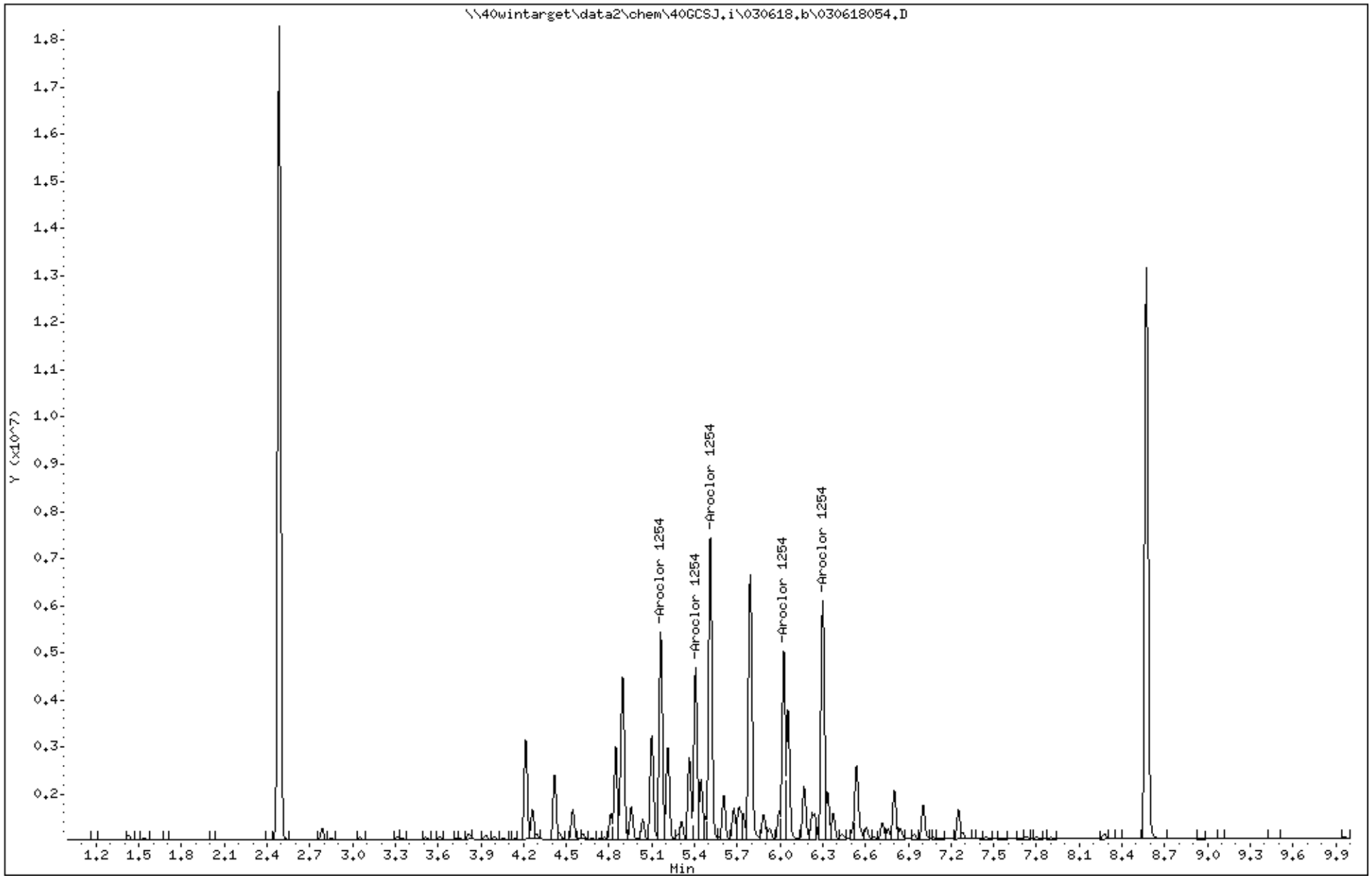
Instrument: 40GCSJ.i

Sample Info: 1254-CAL5C, 185556:1

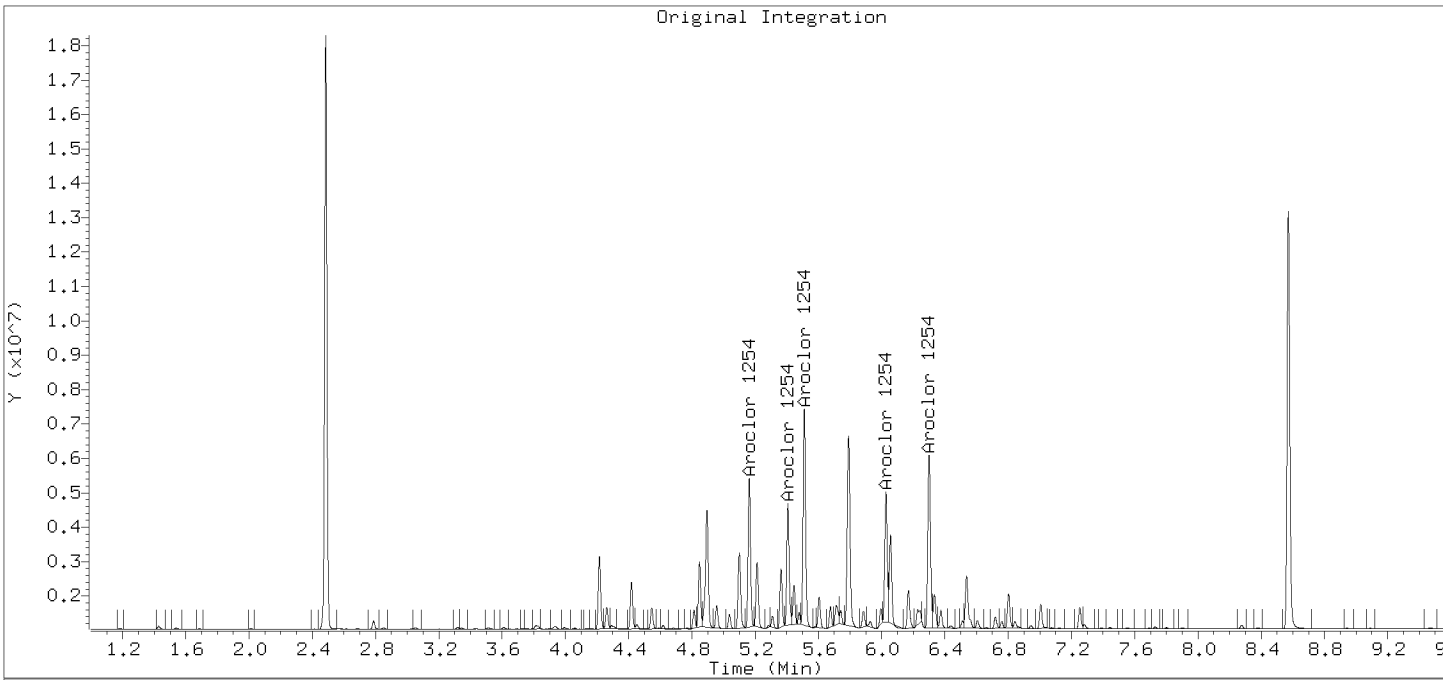
Operator: BLM

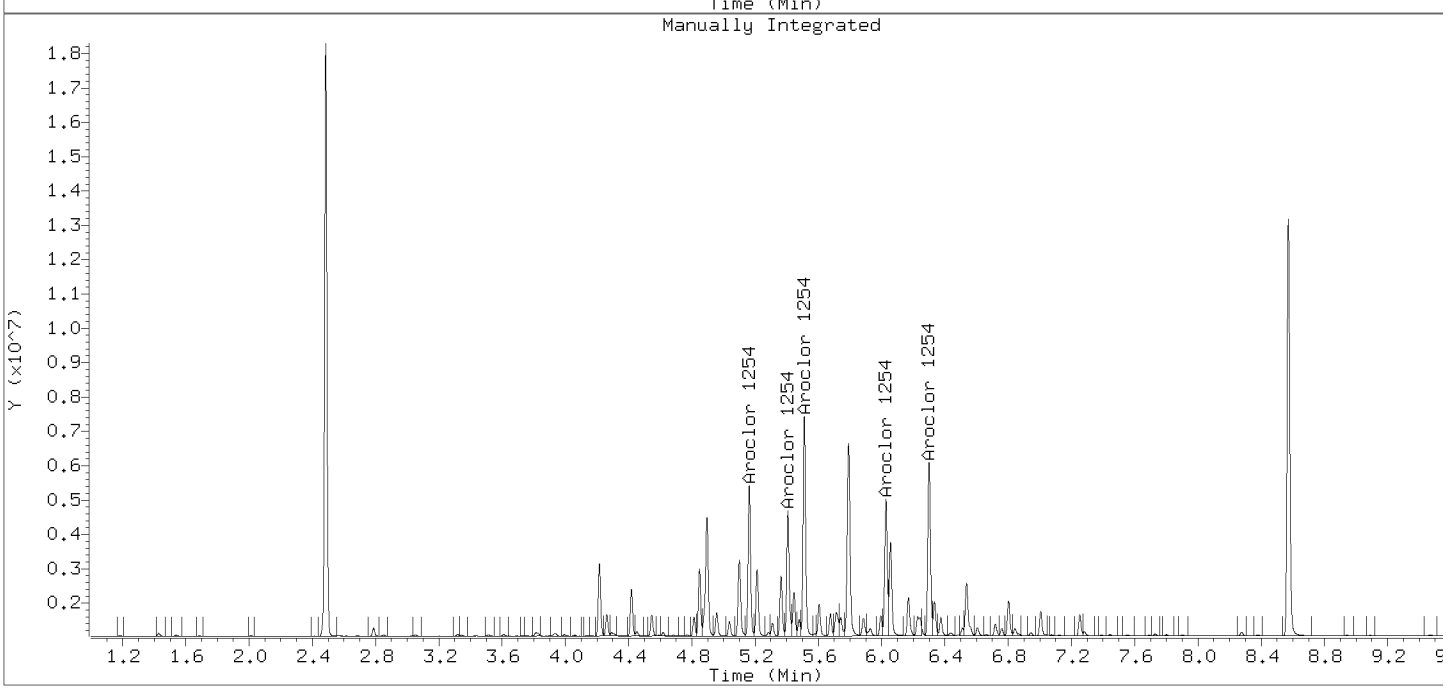
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:34

Client ID: 1660-CAL1A

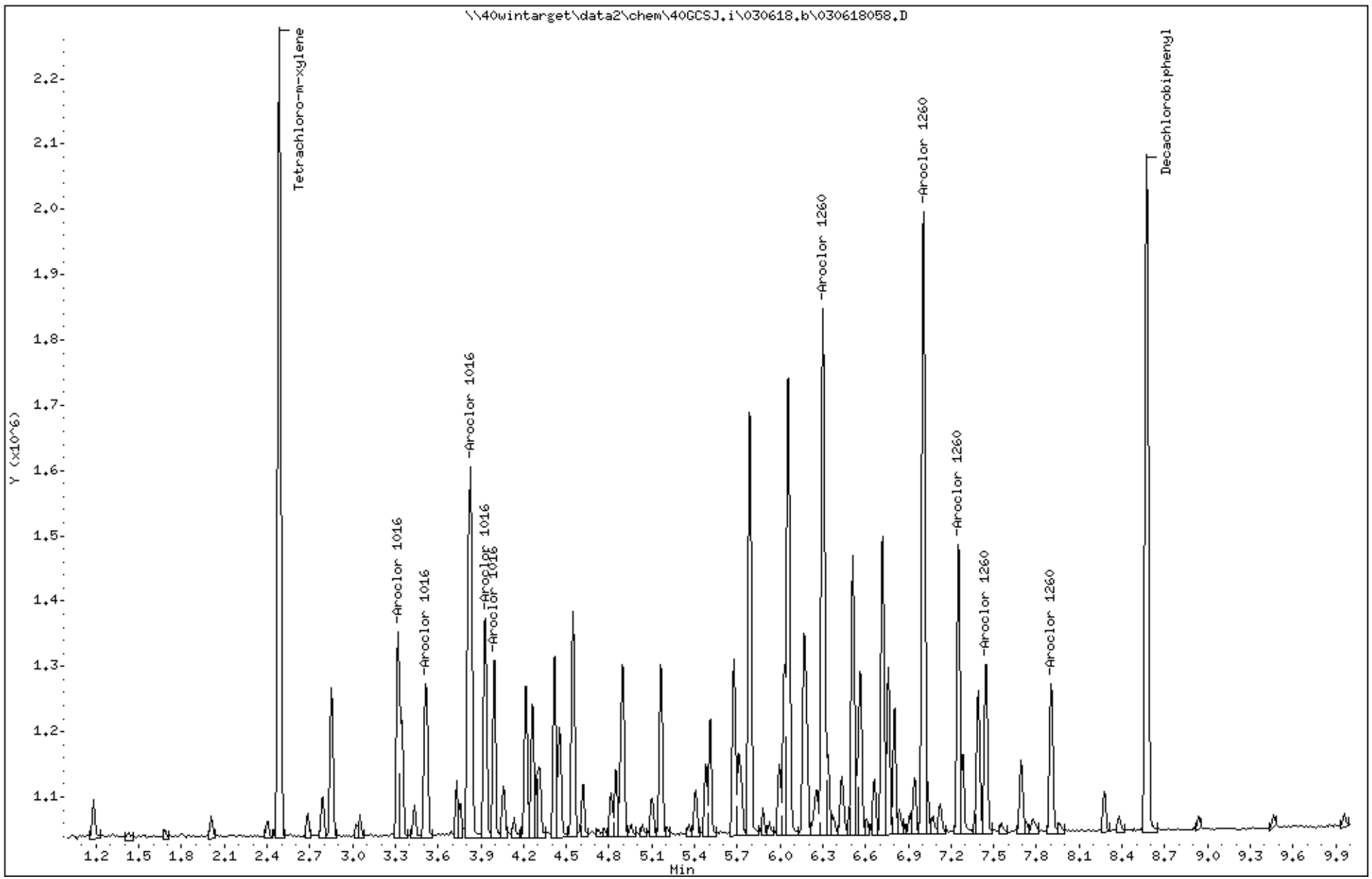
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

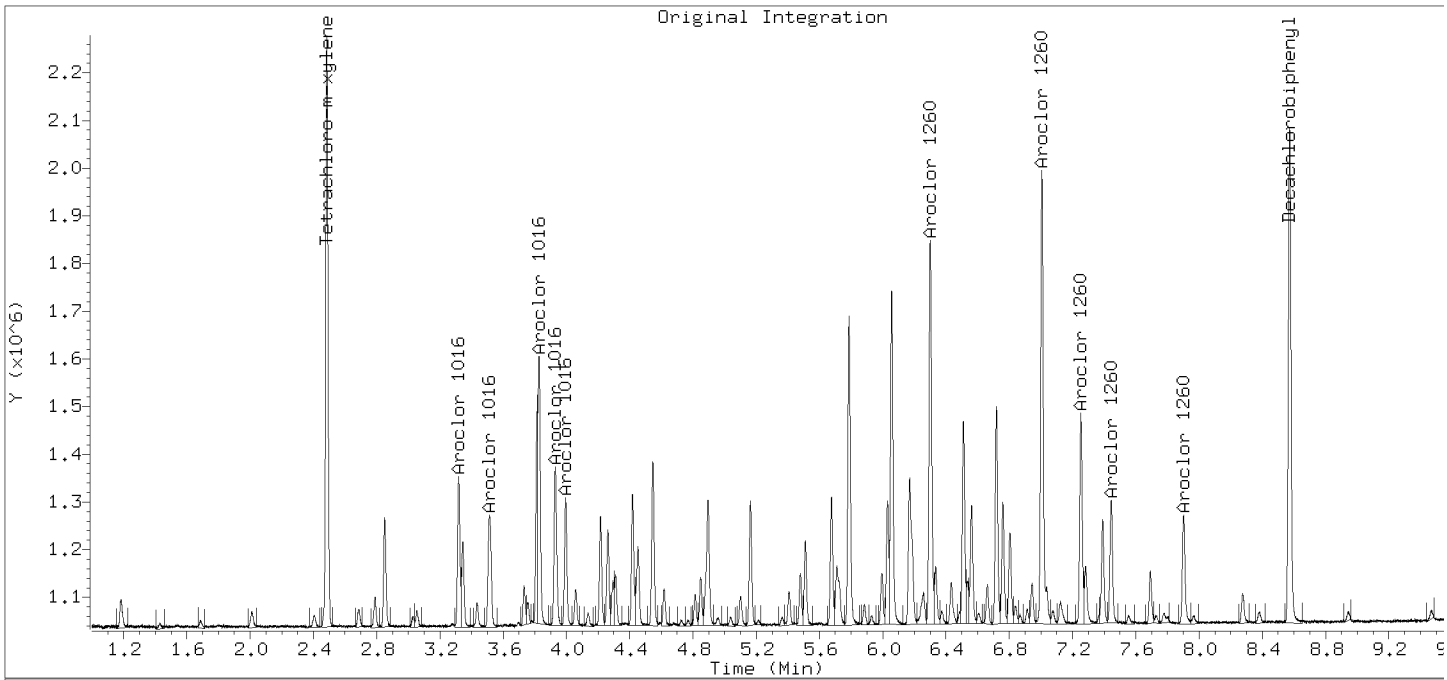
Operator: BLM

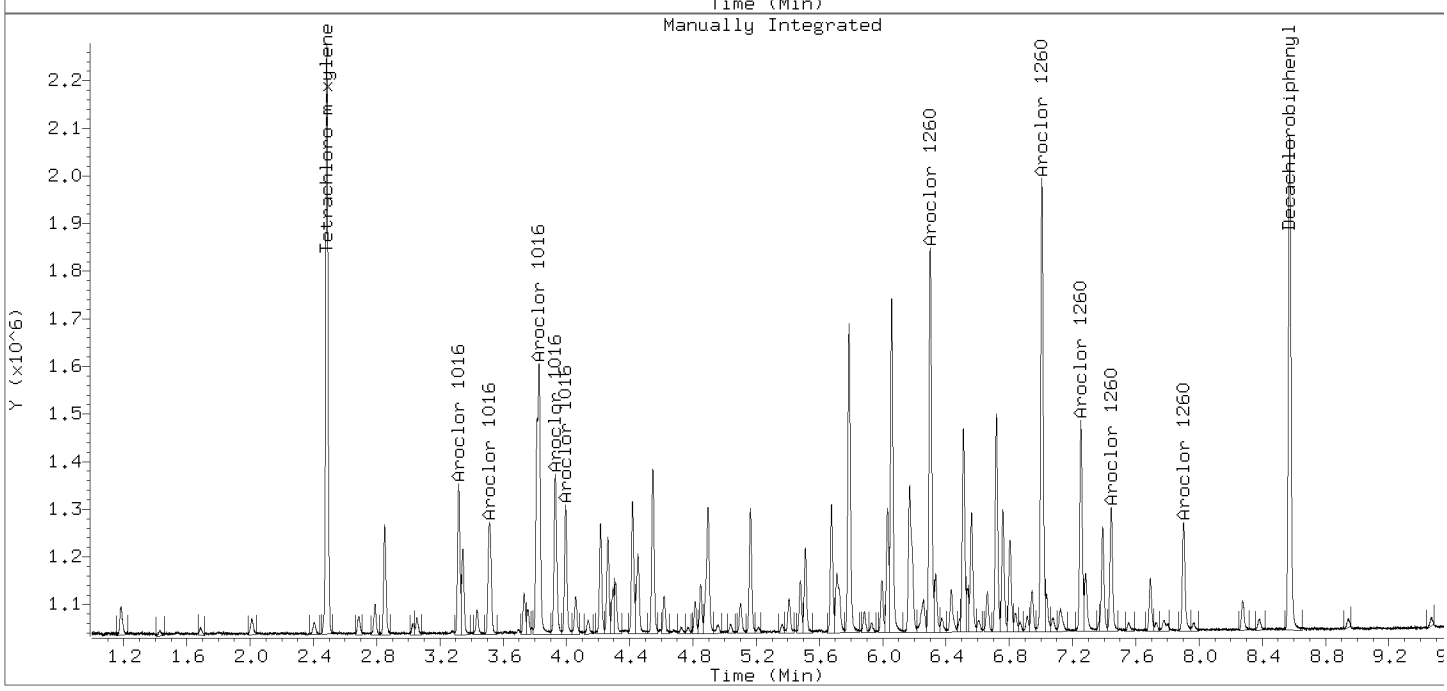
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:51

Client ID: 1660-CAL2A

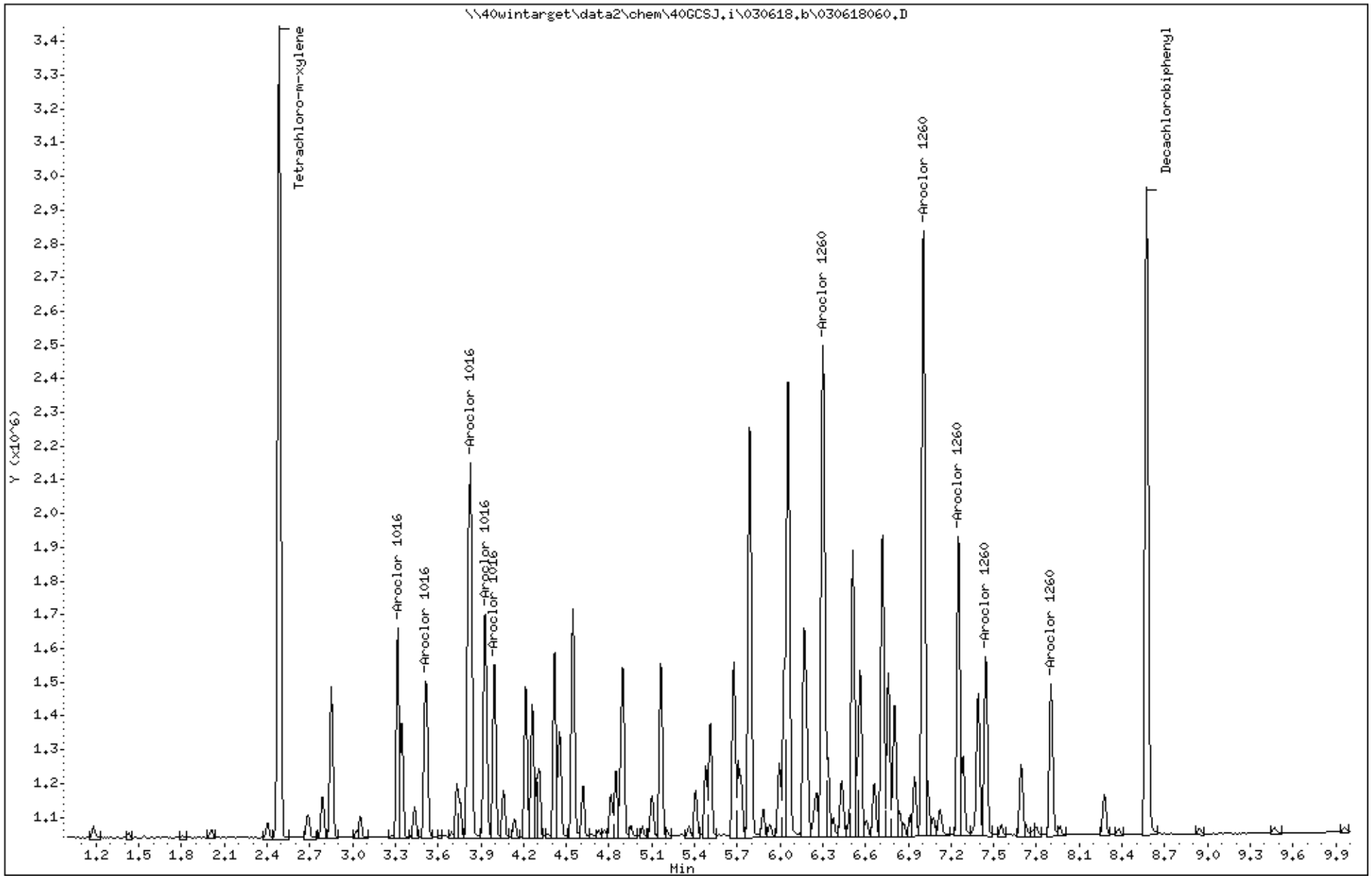
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

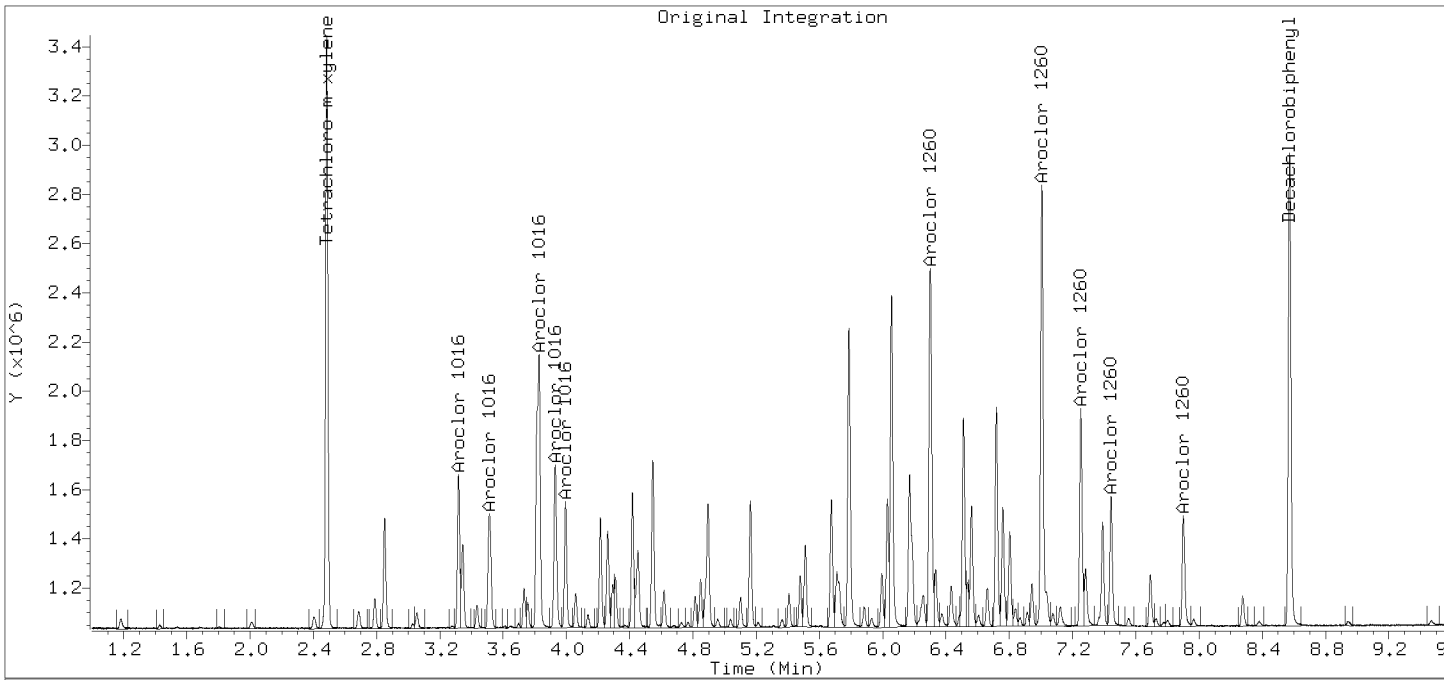
Operator: BLM

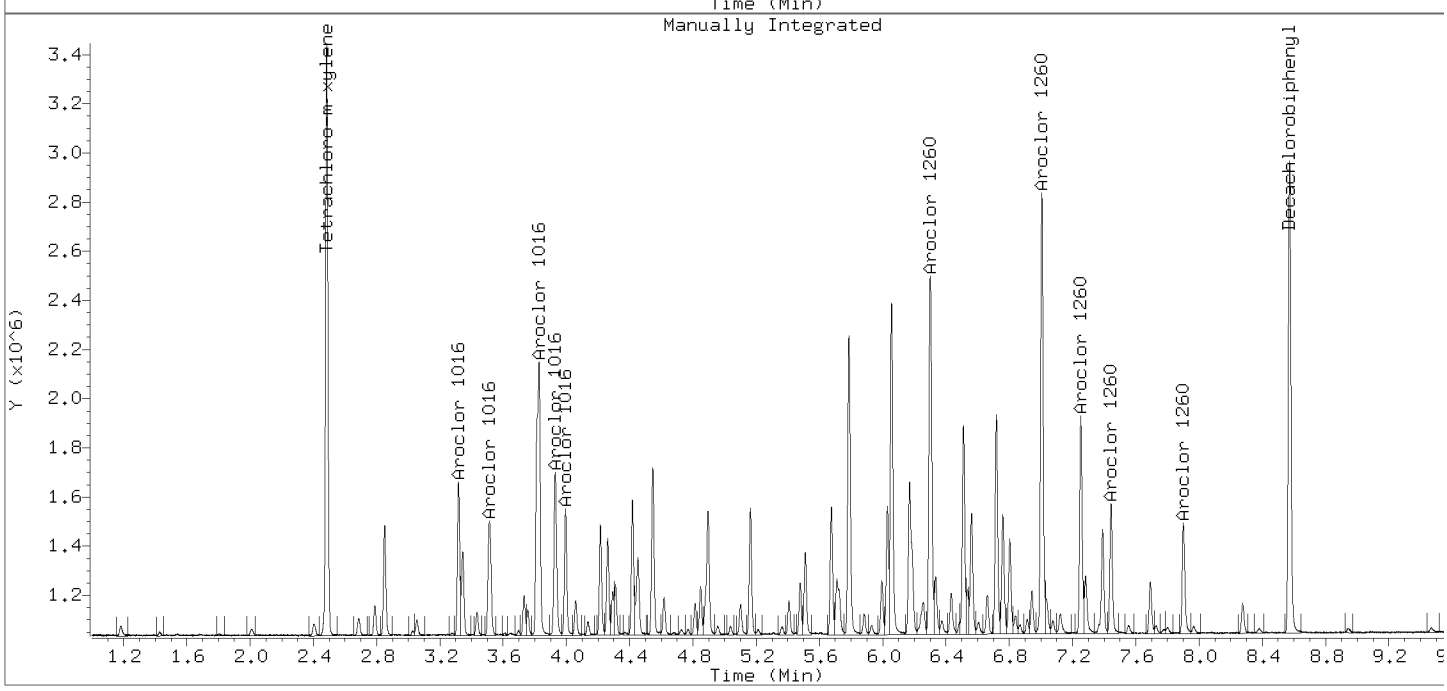
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D

Date : 06-MAR-2018 19:07

Client ID: 1660-CAL3A

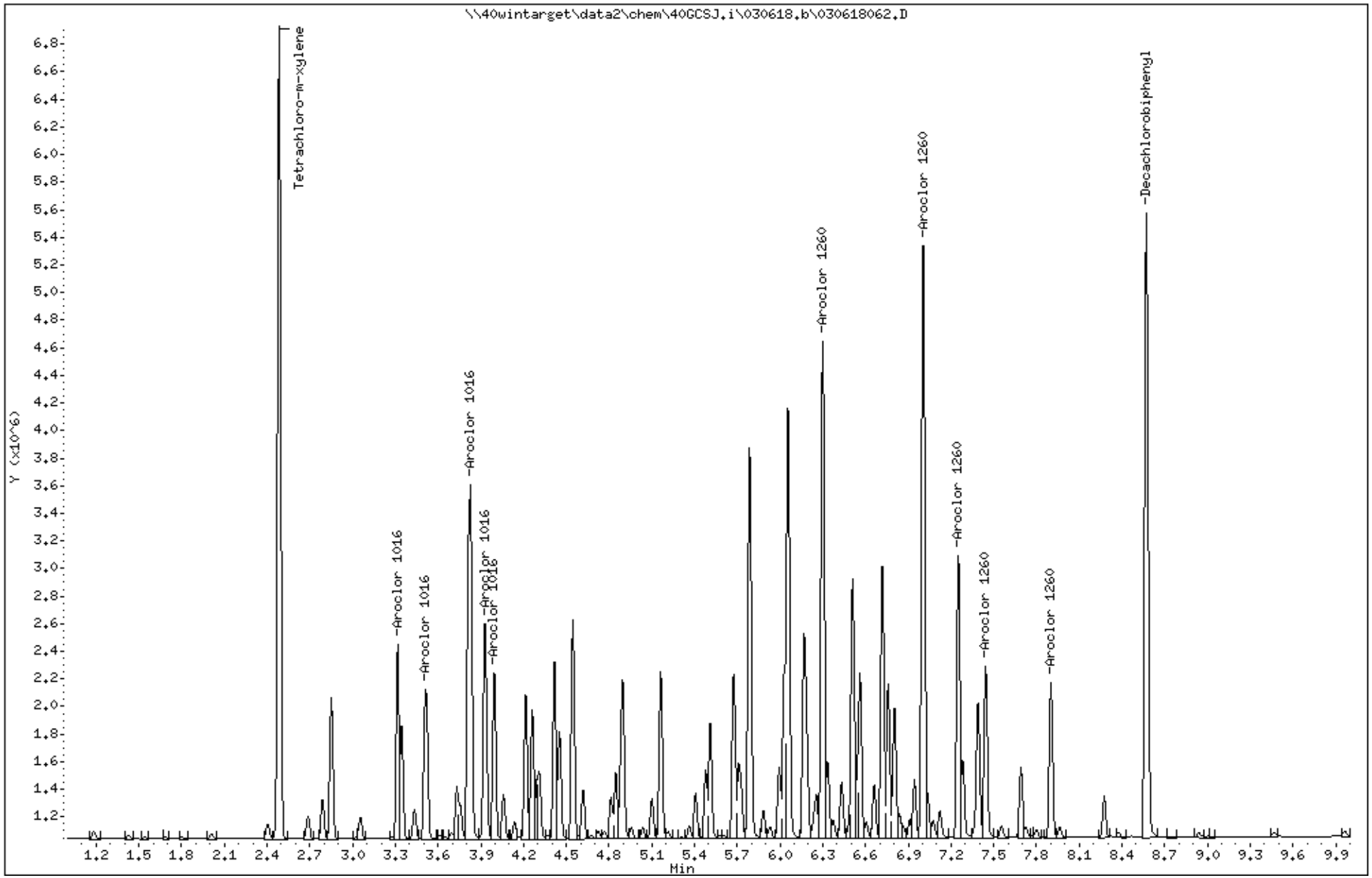
Instrument: 40GCSJ.i

Sample Info: 1660-CAL3A, 185559:1

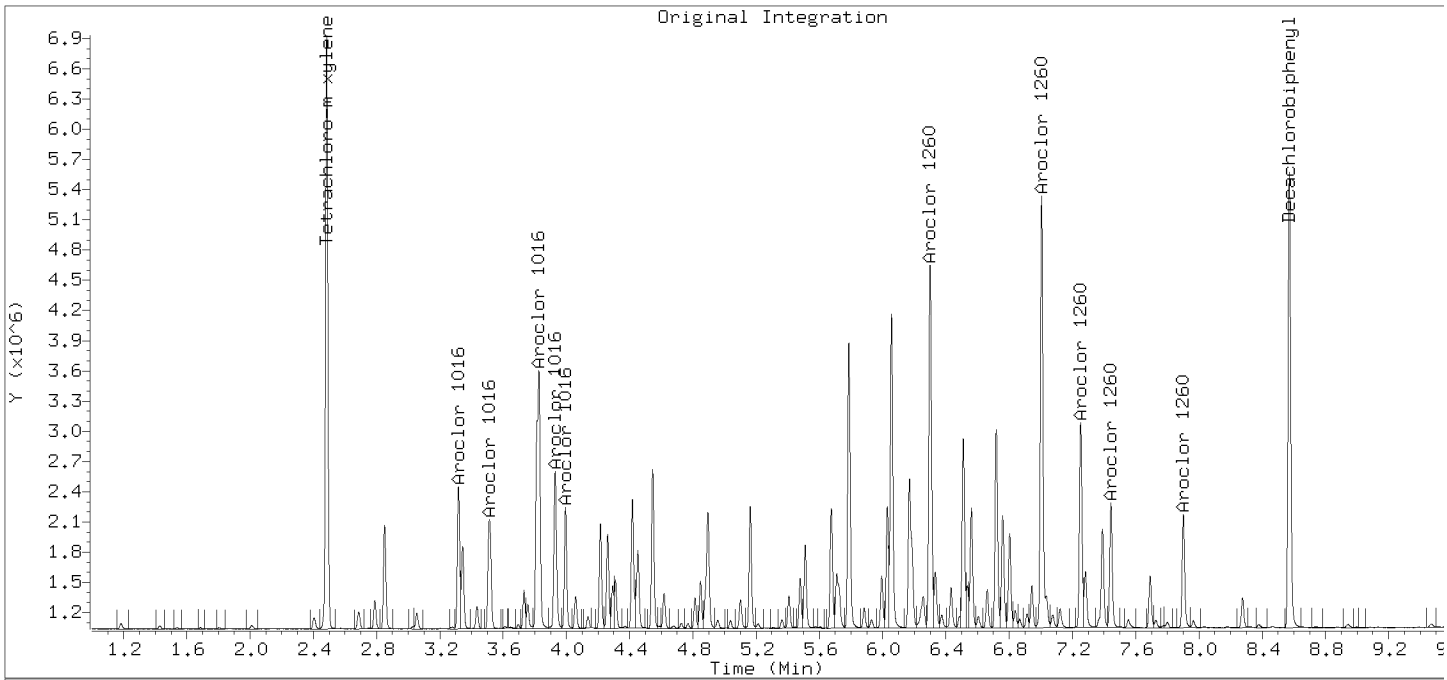
Operator: BLM

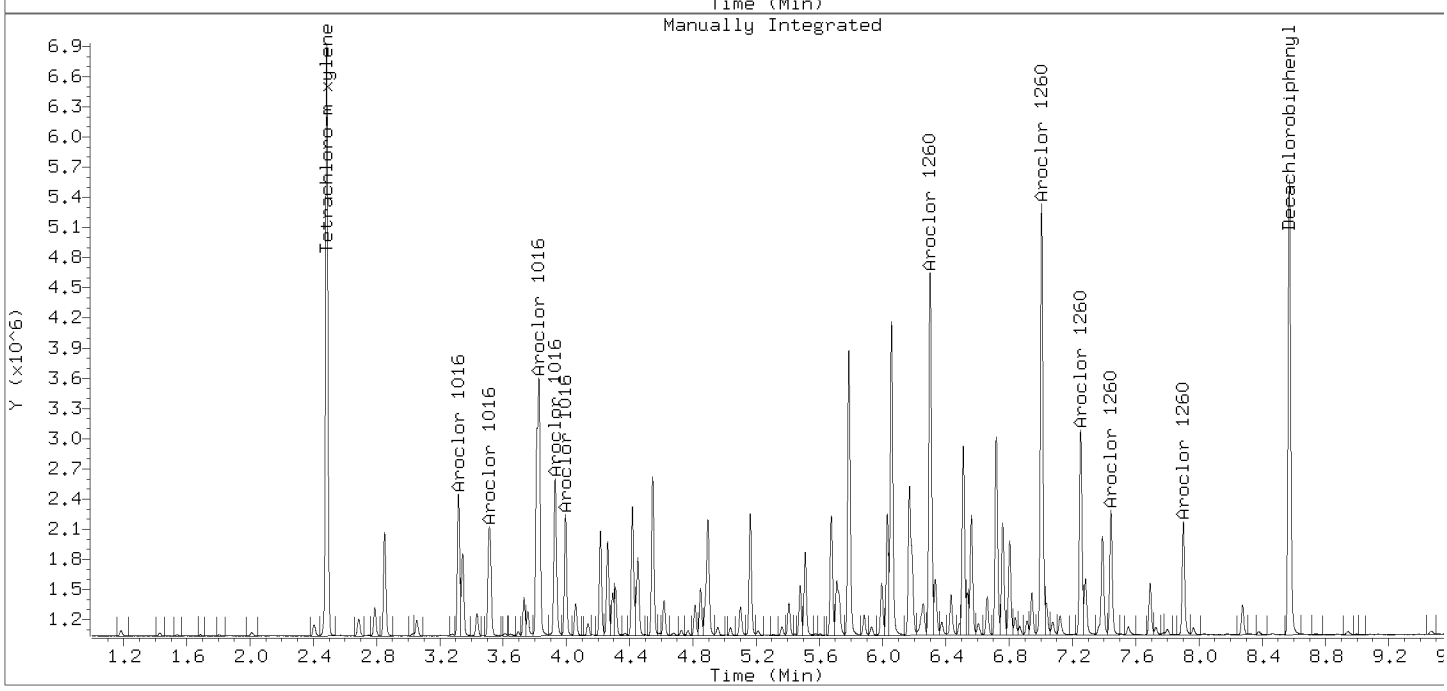
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 19:23

Client ID: 1660-CAL4A

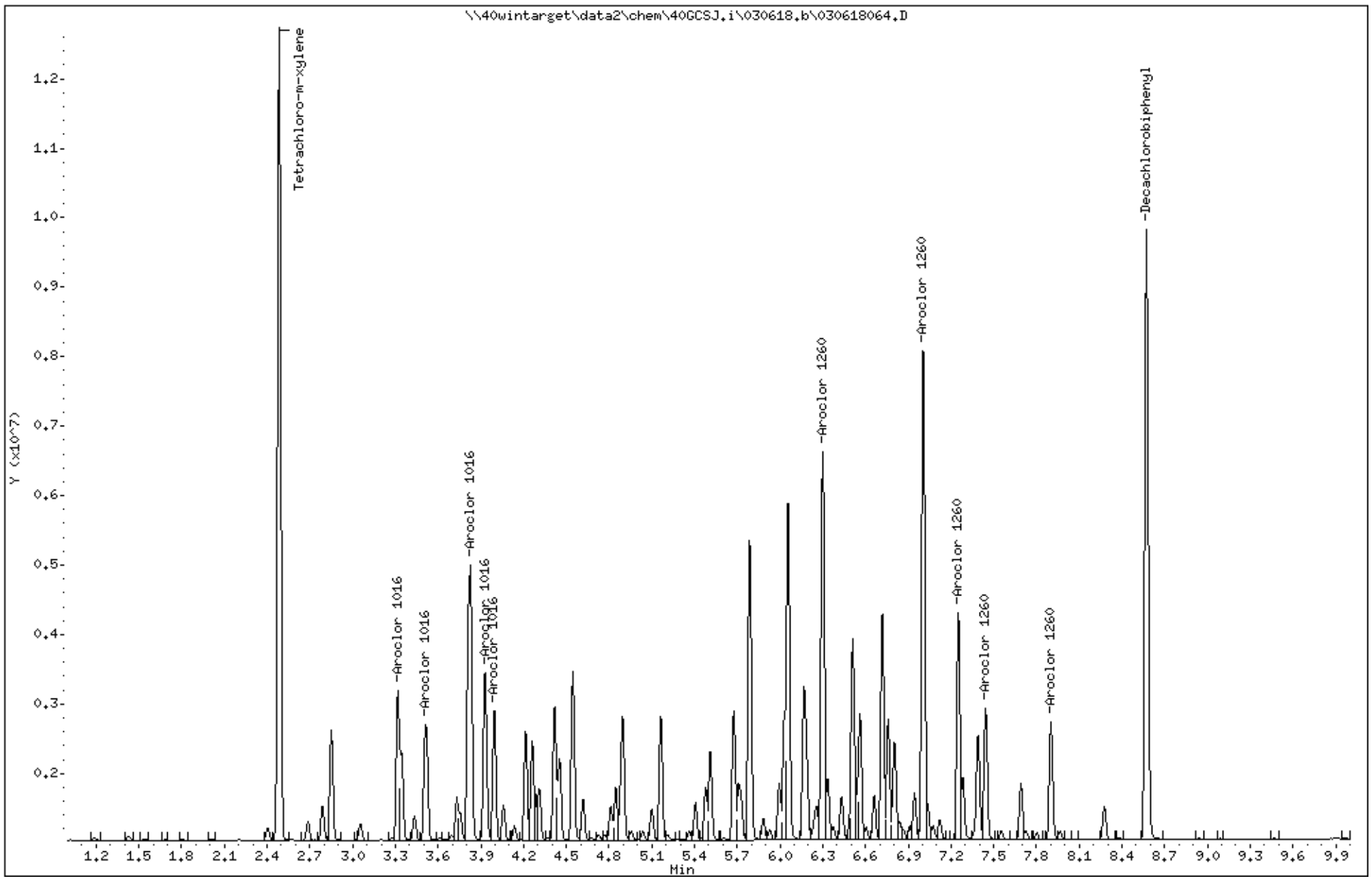
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

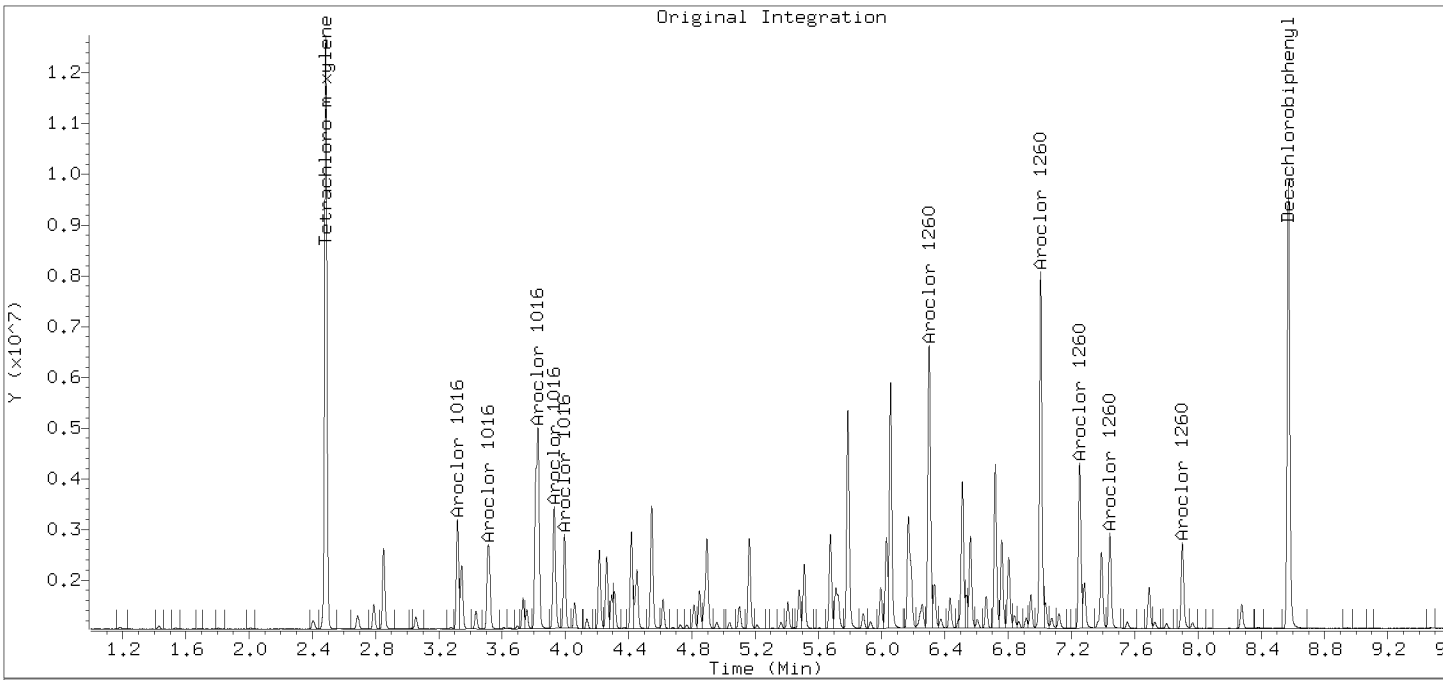
Operator: BLM

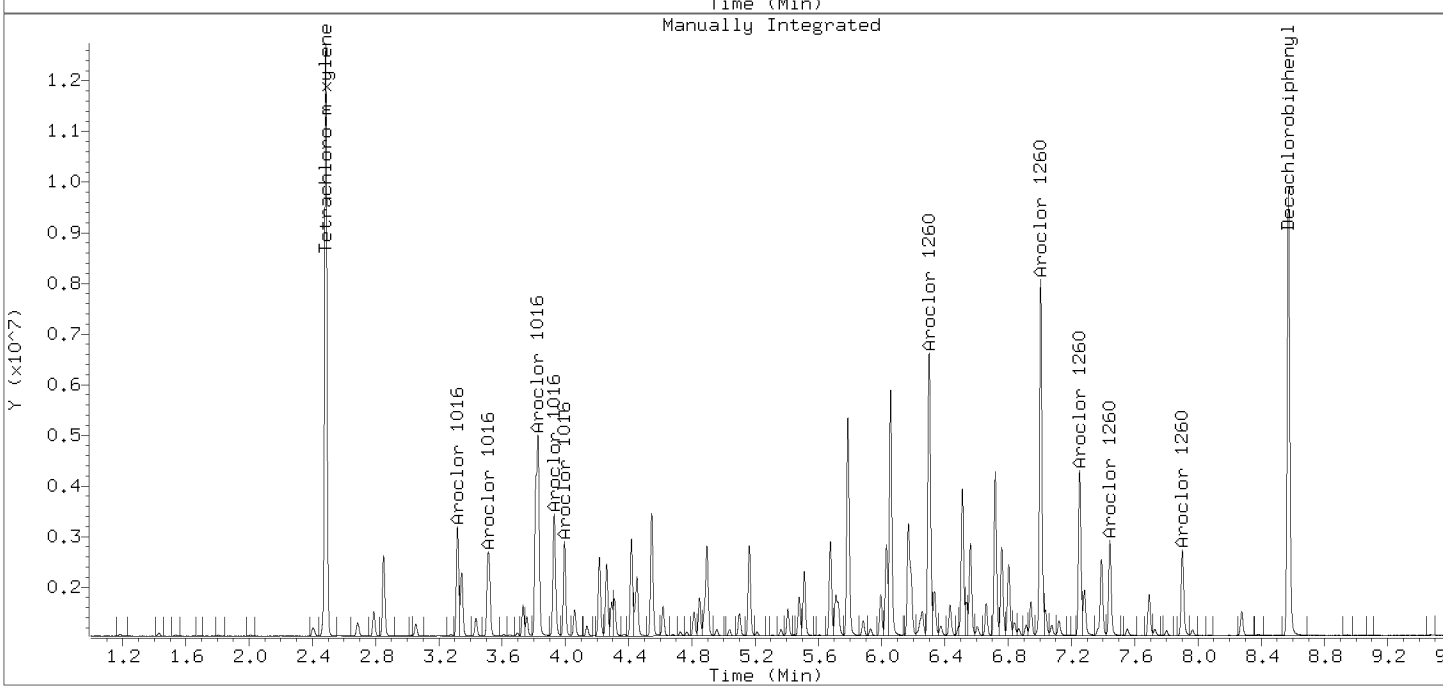
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 06-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.187	97781	71878	0.735	0.05		
1.429	107893	87519	0.811	0.06		
1.538	44327	37507	0.846	0.02		
1.689	14954	14333	0.958	0.00		
1.805	29740	28315	0.952	0.01		
2.010	60528	44274	0.731	0.03		
2.195	10025	8478	0.846	0.00		
2.405	262681	207562	0.790	0.15		
2.485	18299527	17728359	0.969	11.17	$ 2 Tetrachloro-m-xylene	
2.688	390097	317641	0.814	0.22		
2.789	657209	632240	0.962	0.38		
2.851	2084131	1917446	0.920	1.20		
3.030	26436	29009	1.097	0.01		
3.056	320575	297217	0.927	0.18		
3.278	50946	36697	0.720	0.02		
3.318	2843186	2604947	0.916	1.64	5 Aroclor 1016	BA
3.345	1662911	1538320	0.925	0.96		
3.435	468814	430601	0.918	0.27		
3.513	2890424	2043297	0.707	1.67	5 Aroclor 1016	BA
3.609	62043	51821	0.835	0.03		
3.645	34136	30033	0.880	0.01		
3.697	81037	81549	1.006	0.04		
3.732	758995	759602	1.001	0.43		
3.756	489036	474710	0.971	0.28		
3.827	8333033	5039841	0.605	4.83	5 Aroclor 1016	BA
3.929	3523970	2978332	0.845	2.04	5 Aroclor 1016	BA
3.994	2424782	2289525	0.944	1.40	5 Aroclor 1016	BA
4.059	690218	639344	0.926	0.40		
4.137	268754	245577	0.914	0.15		
4.215	2047181	1927649	0.942	1.18		
4.262	1851518	1768522	0.955	1.07		
4.293	812332	825594	1.016	0.47		
4.310	980066	916238	0.935	0.56		
4.372	57766	44143	0.764	0.03		
4.418	2565892	2366938	0.922	1.48		
4.453	1929565	1448450	0.751	1.11		
4.546	3331677	3063380	0.919	1.93		

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

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

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 06-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\030618.b\pcba030618.m
Meth Date : 22-Mar-2018 13:34 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	18299526	0.15000	0.15			
5 Aroclor 1016						CAS #: 12674-11-2		
3.318	3.318	0.000	2843185	1.00000	0.92	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	2890423	1.00000	0.93	0.00- 20.00	101.66	BA
3.826	3.826	0.000	8333033	1.00000	0.94	0.00- 20.00	293.09	BA
3.928	3.929	-0.001	3523970	1.00000	0.93	0.00- 20.00	123.94	BA
3.994	3.994	0.000	2424781	1.00000	0.93	0.00- 20.00	85.28	BA
Average of Peak Amounts =					0.93000			
8 Aroclor 1260						CAS #: 11096-82-5		
6.299	6.300	-0.001	8372147	1.00000	0.94	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	9552528	1.00000	0.95	0.00- 20.00	114.10	BA
7.251	7.251	0.000	4561709	1.00000	0.95	0.00- 20.00	54.49	BA
7.443	7.443	0.000	2747730	1.00000	0.94	0.00- 20.00	32.82	BA
7.900	7.901	-0.001	2485127	1.00000	0.94	0.00- 20.00	29.68	BA
Average of Peak Amounts =					0.94400			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	15073640	0.15000	0.14			

QC Flag Legend

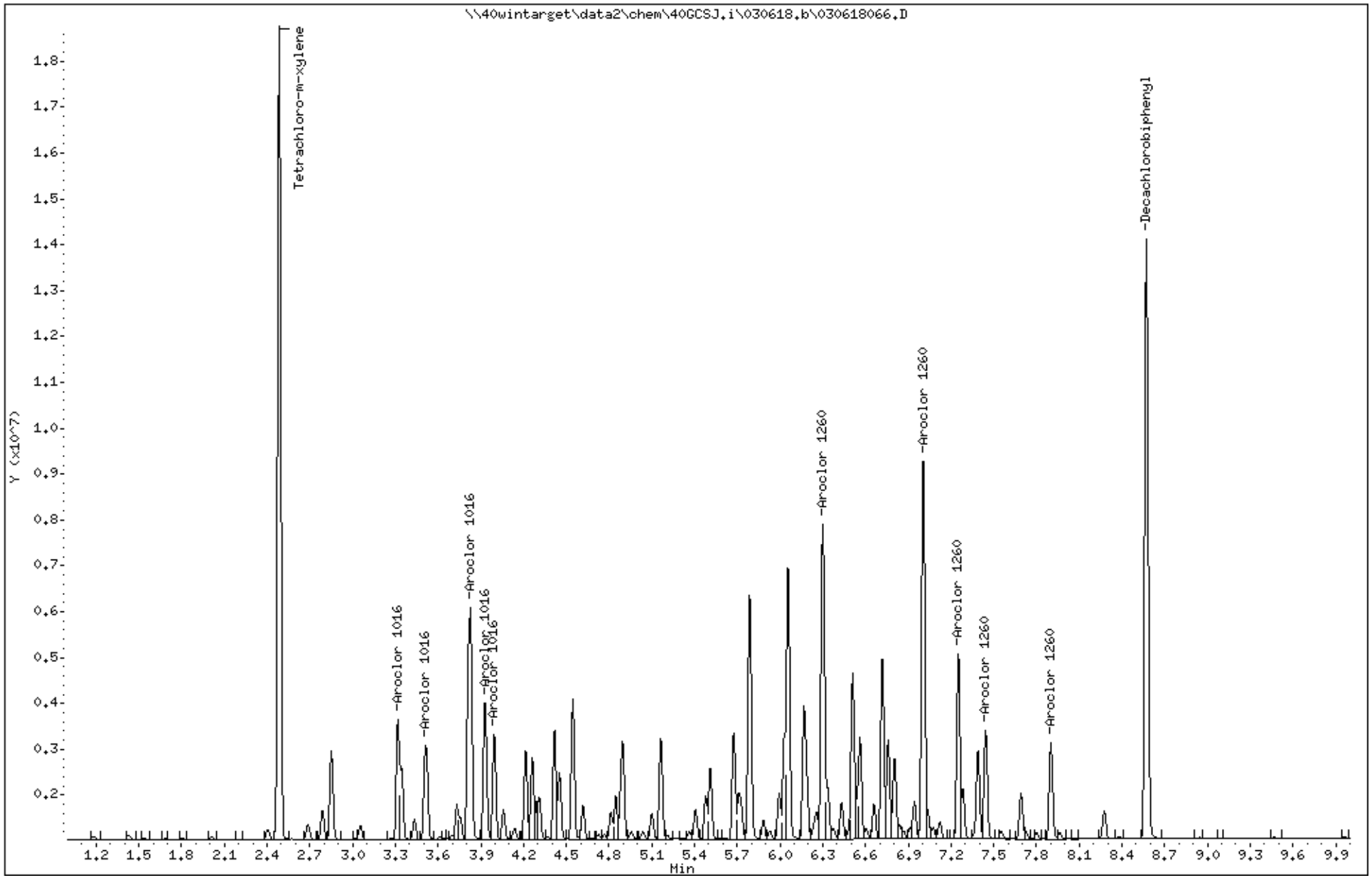
M - Compound response manually integrated.

Review Codes Legend

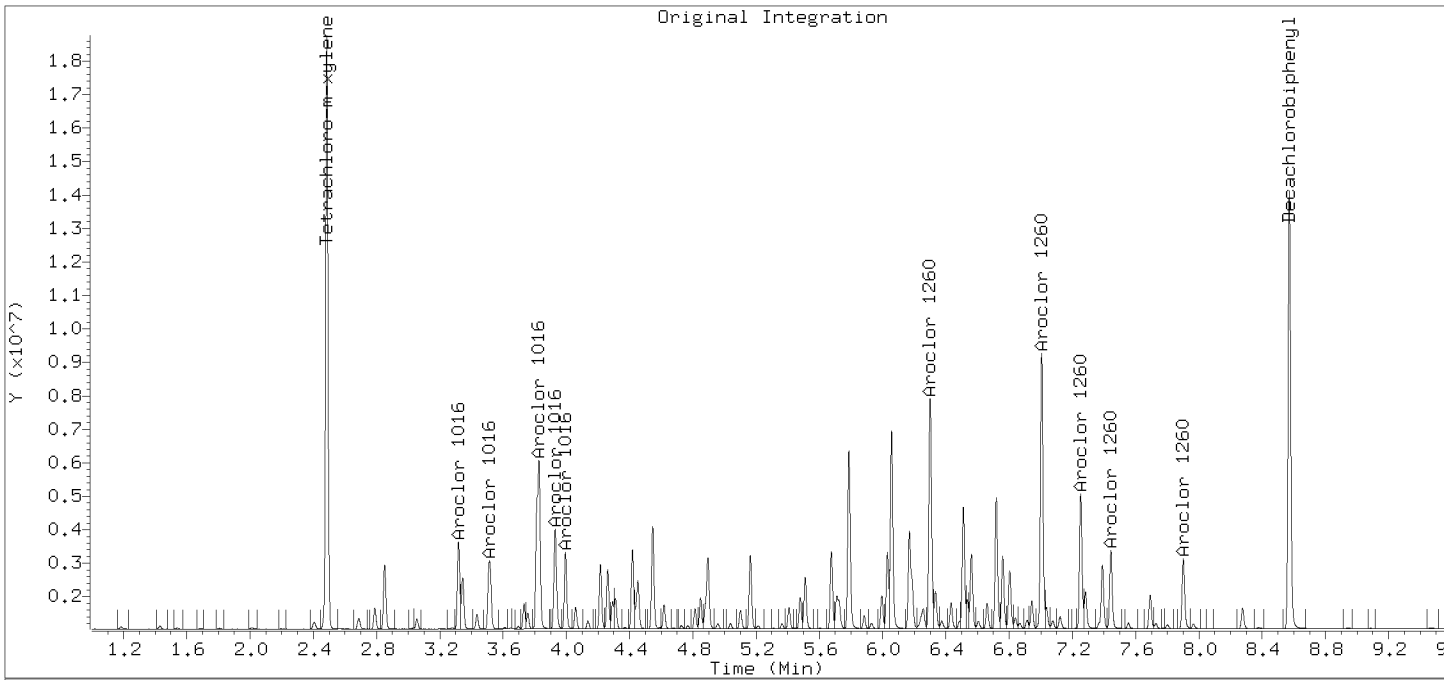
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

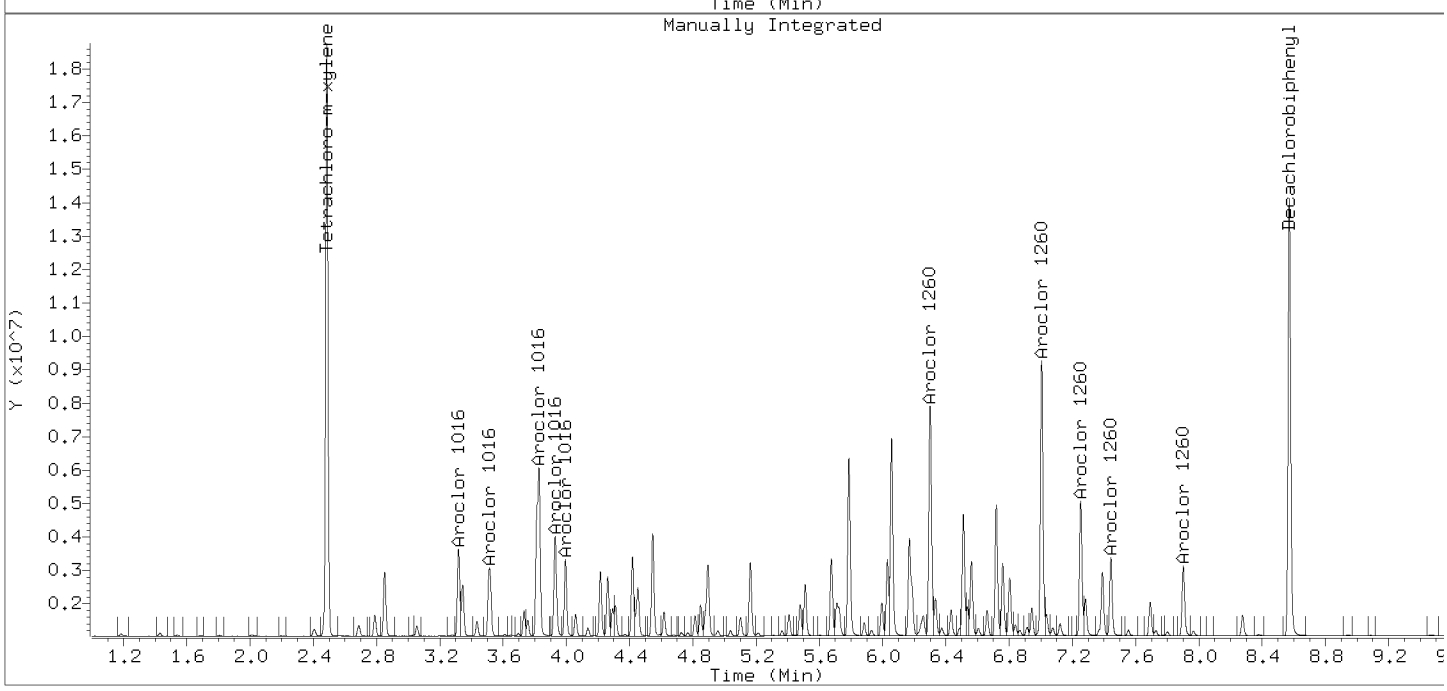
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Date : 06-MAR-2018 19:39
Client ID: 1660-CAL5A
Sample Info: 1660-CAL5A, 185561:1

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



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





Manually Integrated Compounds

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

PCB Low Level Calibration % Difference Check

Lab Name: Pace Analytical - Green Bay
Instrument ID: 40GCSJ
Calibration Date: 3/6/2018

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

SAMPLE NO.

10757904ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151613

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.: 40151613

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.: 40151613

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.: 40151613

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.: 40151613

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.

10842742CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/16/2018 Time: 14:25

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

Lab File ID: 031618.B\031618004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151613

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.26	4.227	4.295	2342973.85	2358220.00	0.6507
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4084222.00	-1.5923
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2013618.00	-0.8109
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	4925588.00	-2.2205
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3487300.00	-2.8214
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	105961920.	-3.2841
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	117783360.	-4.4704

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

SAMPLE NO.

10842744CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/16/2018 Time: 17:35

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

Lab File ID: 031618.B\031618016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151613

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	5225346.00	-0.1891
Aroclor 1254	2	Averaged	5.405	5.374	5.442	4301054.45	4327882.00	0.6237
Aroclor 1254	3	Averaged	5.509	5.476	5.544	7766063.85	7780894.00	0.1910
Aroclor 1254	4	Averaged	6.024	5.993	6.061	4869683.55	5088142.00	4.4861
Aroclor 1254	5	Averaged	6.299	6.265	6.333	6507103.75	6663070.00	2.3969
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	109623800.	0.0582
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	118961920.	-3.5145

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

SAMPLE NO.

10842741CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/16/2018 Time: 20:45

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

Lab File ID: 031618.B\031618028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151613

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	3256688.00	5.7081
Aroclor 1016	2	Averaged	3.512	3.478	3.546	3099002.40	3238150.00	4.4901
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	9514894.00	7.3699
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	4037794.00	6.8136
Aroclor 1016	5	Averaged	3.993	3.96	4.028	2603349.30	2669970.00	2.5590
Aroclor 1260	1	Averaged	6.298	6.266	6.334	8862352.50	9637248.00	8.7437
Aroclor 1260	2	Averaged	7.004	6.972	7.04	10014373.3	10994890.0	9.7911
Aroclor 1260	3	Averaged	7.25	7.217	7.285	4779803.15	5374884.00	12.4499
Aroclor 1260	4	Averaged	7.441	7.409	7.477	2915110.60	3131178.00	7.4120
Aroclor 1260	5	Averaged	7.898	7.867	7.935	2638735.95	2883988.00	9.2943
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	118425380.	8.0918
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	128232920.	4.0049

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

SAMPLE NO.

10842743CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/16/2018 Time: 22:20

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

Lab File ID: 031618.B\031618034.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151613

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	1003742.00	-3.6028
Aroclor 1221	2	Averaged	2.406	2.373	2.441	547842.900	518052.000	-5.4379
Aroclor 1221	3	Averaged	2.687	2.654	2.722	1383336.70	1366050.00	-1.2496
Aroclor 1221	4	Averaged	2.788	2.755	2.823	1105769.55	1070360.00	-3.2023
Aroclor 1221	5	Averaged	2.85	2.817	2.885	3255397.65	3298692.00	1.3299
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	110112360.	0.5042
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	118362880.	-4.0003

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

SAMPLE NO.

10850752CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/27/2018 Time: 13:55

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

Lab File ID: 032718.B\032718004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151613

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	973054.000	-6.5500
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	513248.000	-6.3147
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1293026.00	-6.5285
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1008344.00	-8.8107
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3070240.00	-5.6877
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	97313000.0	-11.1783
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	115912980.	-5.9874

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

SAMPLE NO.

10850753CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/27/2018 Time: 17:05

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

Lab File ID: 032718.B\032718016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151613

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	2681994.00	7.2787
Aroclor 1232	2	Averaged	3.513	3.479	3.547	1339782.00	1400658.00	4.5437
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	4023370.00	7.2977
Aroclor 1232	4	Averaged	3.928	3.895	3.963	1606492.00	1720932.00	7.1236
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1148408.00	5.1775
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	105022320.	-4.1417
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119771560.	-2.8578

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

SAMPLE NO.

10850971CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/30/2018 Time: 15:47

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

Lab File ID: 033018.B\033018004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151613

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	2538698.00	1.5469
Aroclor 1232	2	Averaged	3.513	3.479	3.547	1339782.00	1338104.00	-0.1252
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	3730710.00	-0.5071
Aroclor 1232	4	Averaged	3.929	3.895	3.963	1606492.00	1594924.00	-0.7201
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1054644.00	-3.4099
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	102155020.	-6.7588
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	115728840.	-6.1367

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

SAMPLE NO.

10850970CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/30/2018 Time: 18:57

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

Lab File ID: 033018.B\033018016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40151613

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.318	3.284	3.352	2533198.70	2590076.00	2.2453
Aroclor 1242	2	Averaged	3.512	3.479	3.547	2520033.45	2573384.00	2.1171
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7354464.00	3.3444
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3157966.00	3.8280
Aroclor 1242	5	Averaged	3.994	3.961	4.029	2047746.90	2096922.00	2.4014
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	108080680.	-1.3502
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	120300920.	-2.4285

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

SAMPLE NO.

10858108CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40151613

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.26	4.227	4.295	2342973.85	2400608.00	2.4599
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4192600.00	1.0191
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2116228.00	4.2436
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5214738.00	3.5195
Aroclor 1248	5	Averaged	5.037	5.004	5.072	3588546.15	3736722.00	4.1291
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	108248000.	-1.1975
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119920640.	-2.7369

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

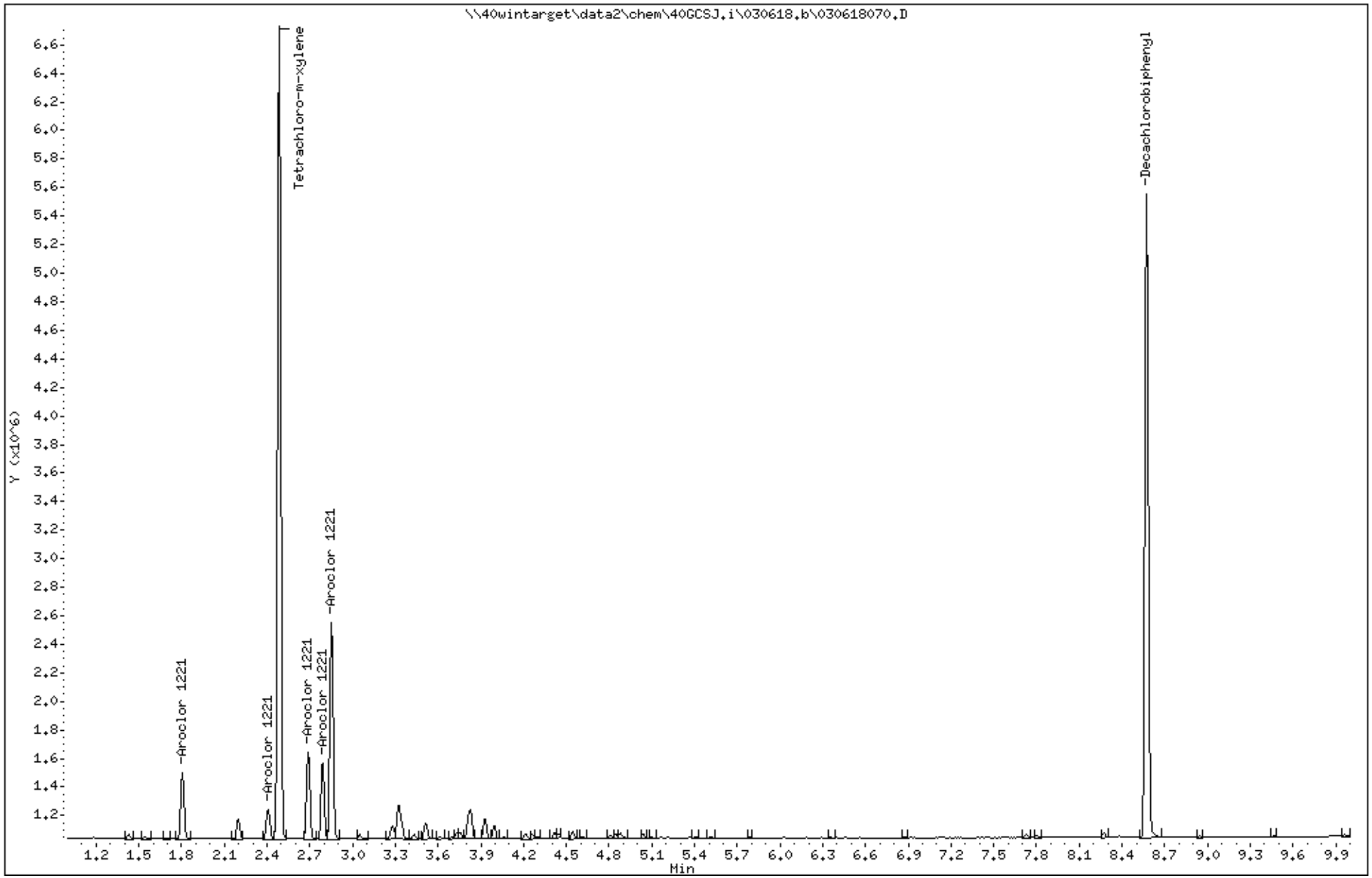
M - Compound response manually integrated.

Review Codes Legend

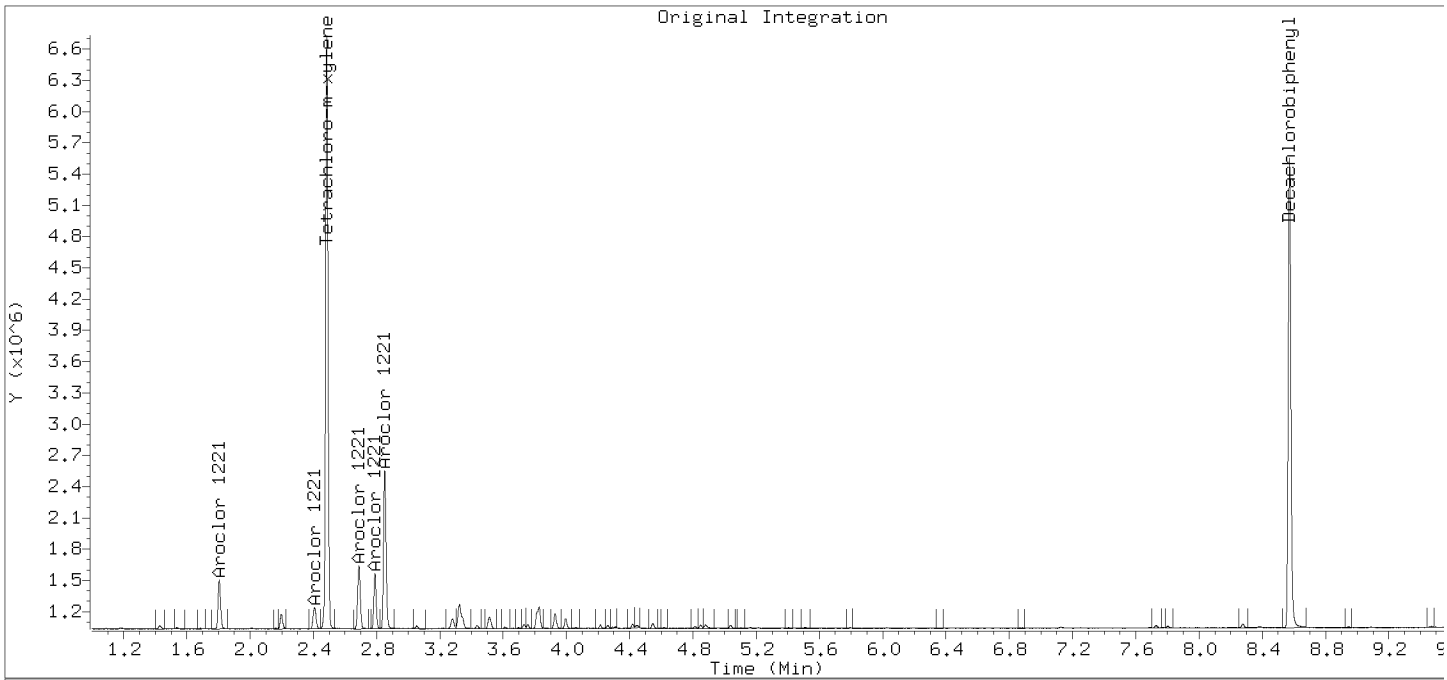
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

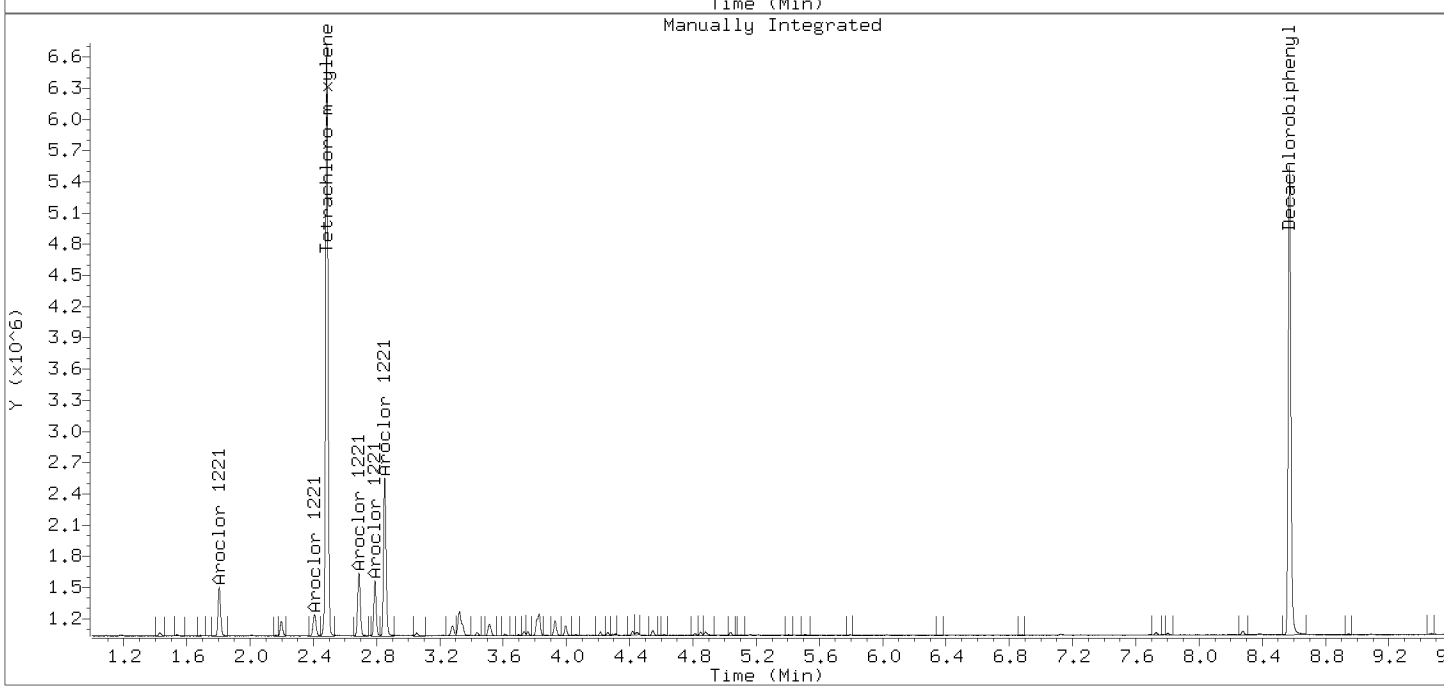
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D

Date : 06-MAR-2018 20:27

Client ID: 1242-ICV

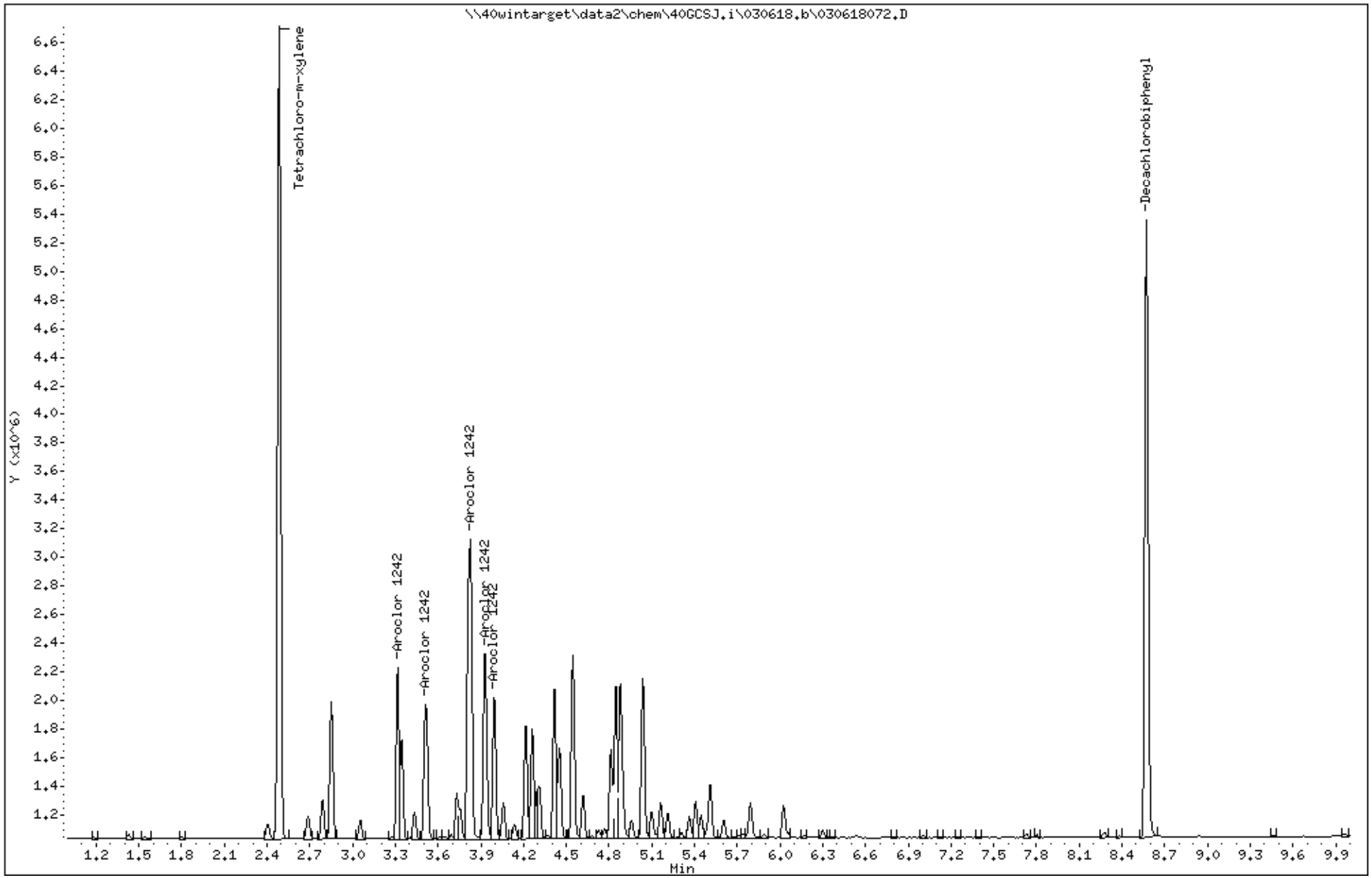
Instrument: 40GCSJ.i

Sample Info: 1242-ICV, 185562:1

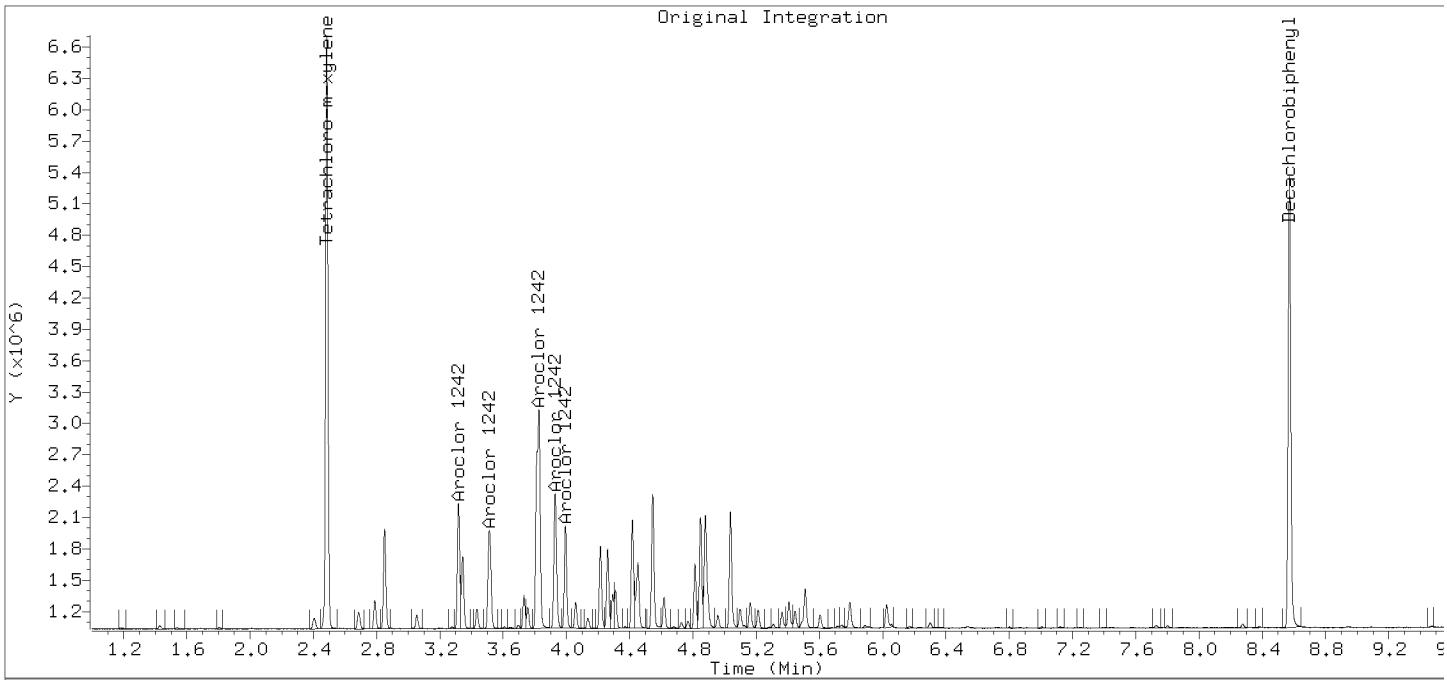
Operator: BLM

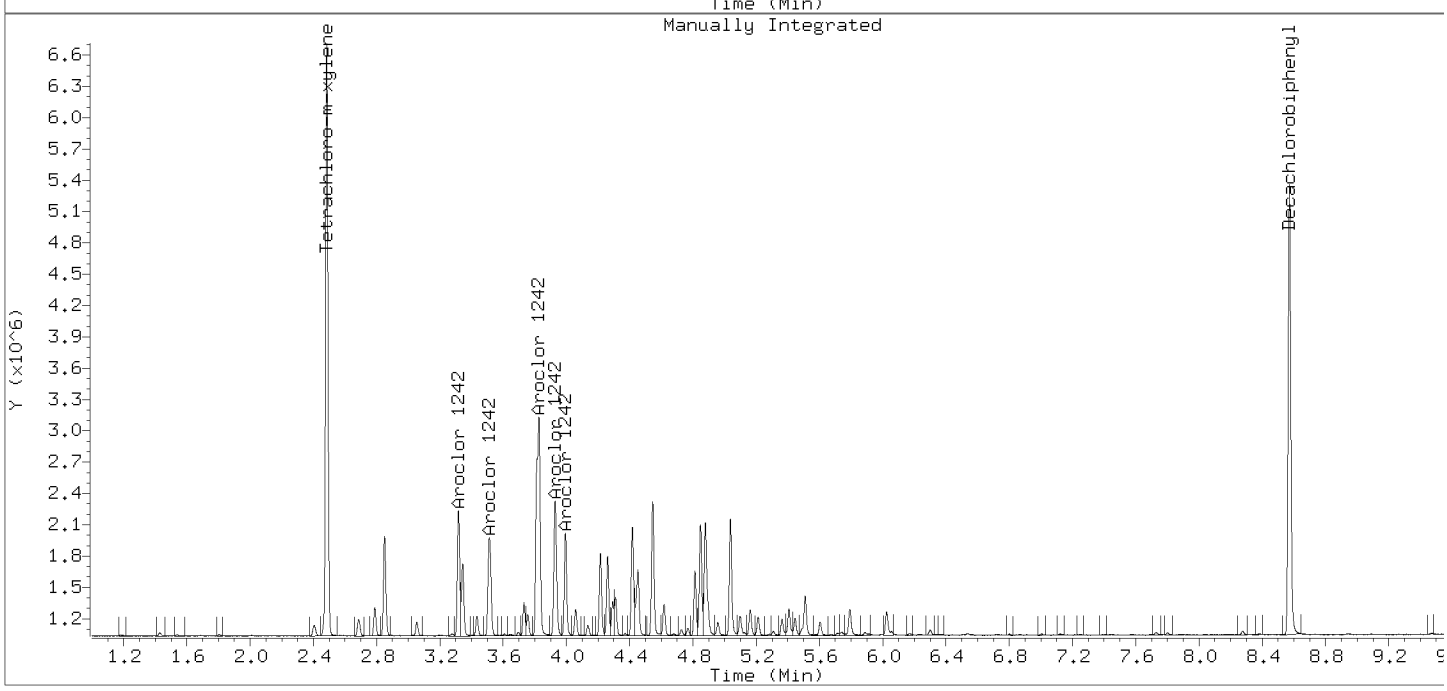
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5899761	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1208003	0.50000	0.52	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2136003	0.50000	0.51	0.00- 20.00	176.82	BA
4.813	4.812	0.001	1072571	0.50000	0.53	0.00- 20.00	88.79	BA
4.879	4.879	0.000	2628587	0.50000	0.52	0.00- 20.00	217.60	BA
5.037	5.038	-0.001	1890857	0.50000	0.53	0.00- 20.00	156.53	BA
Average of Peak Amounts =					0.52200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5173433	0.05000	0.047			

QC Flag Legend

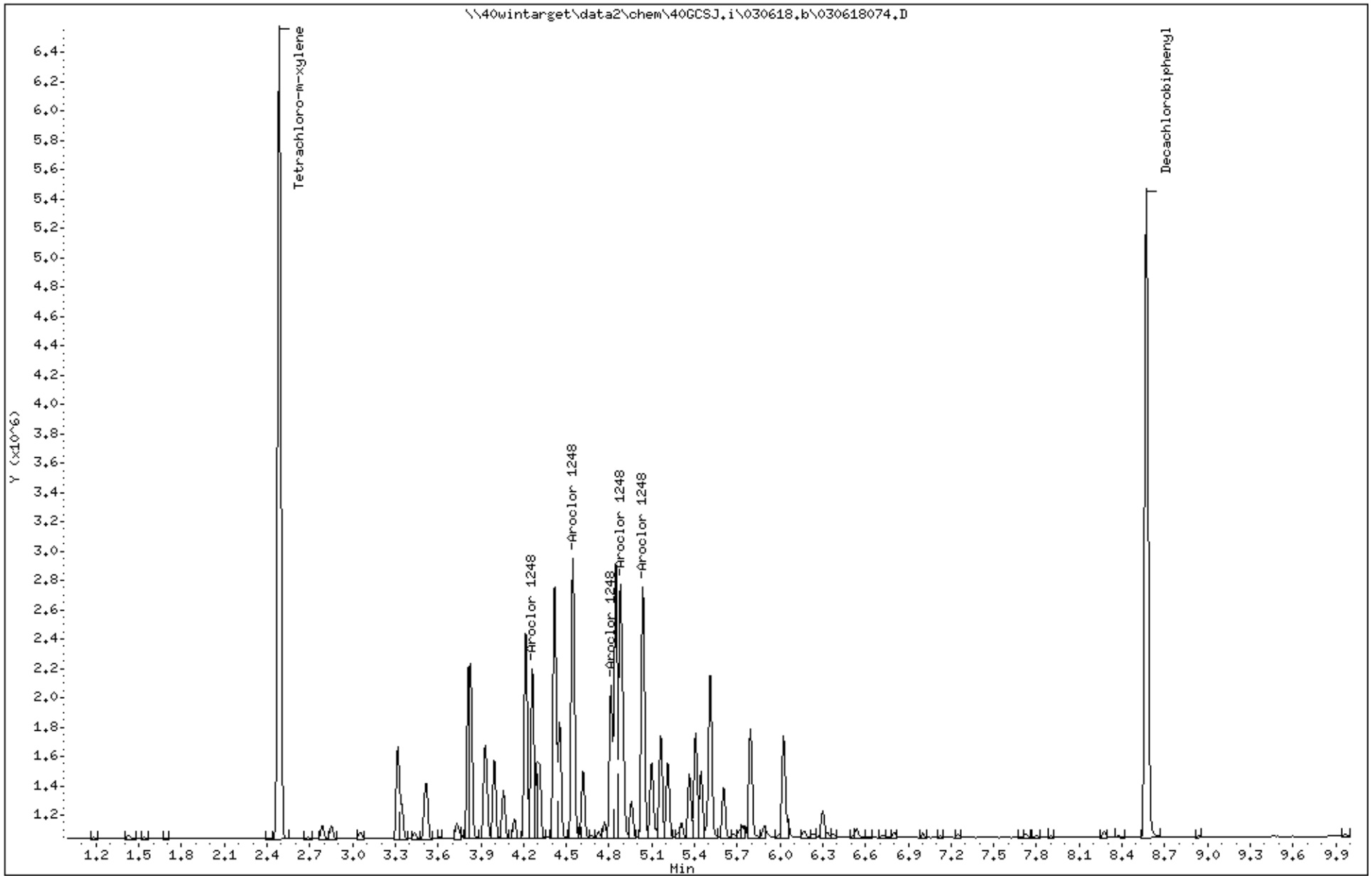
M - Compound response manually integrated.

Review Codes Legend

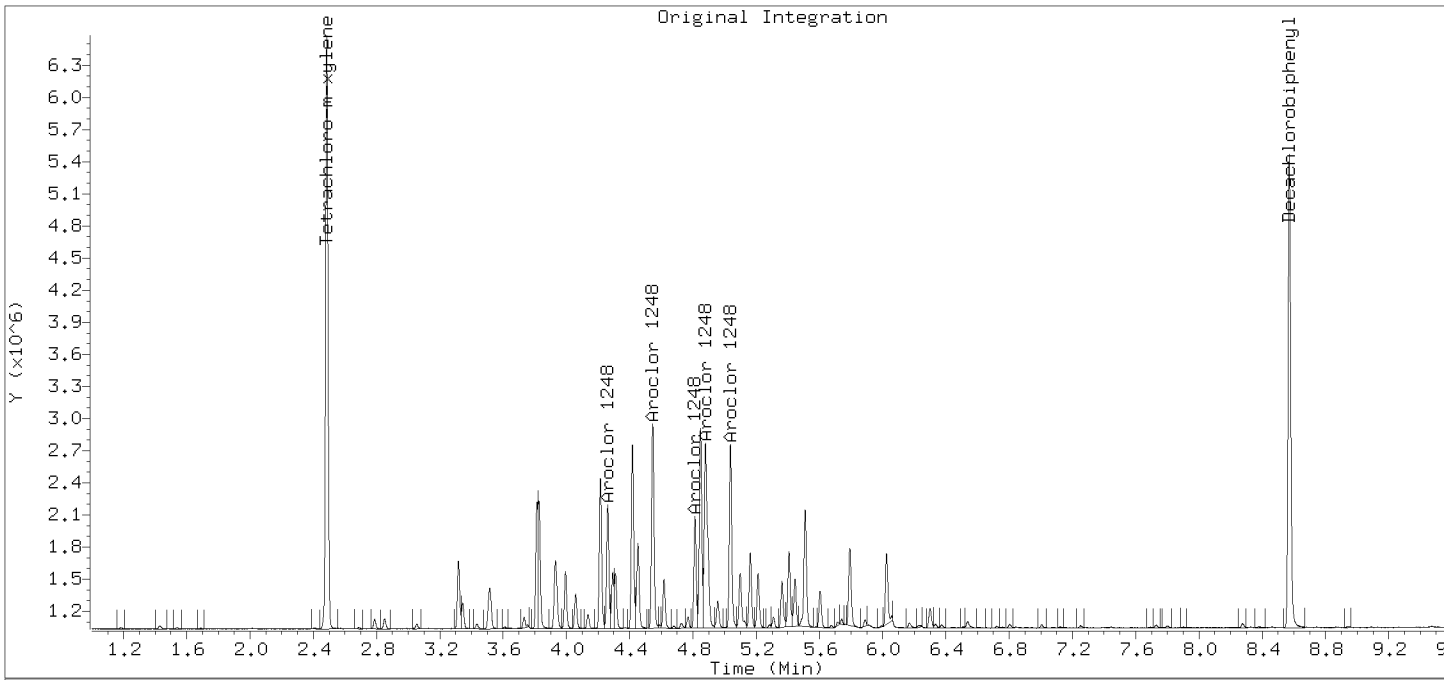
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

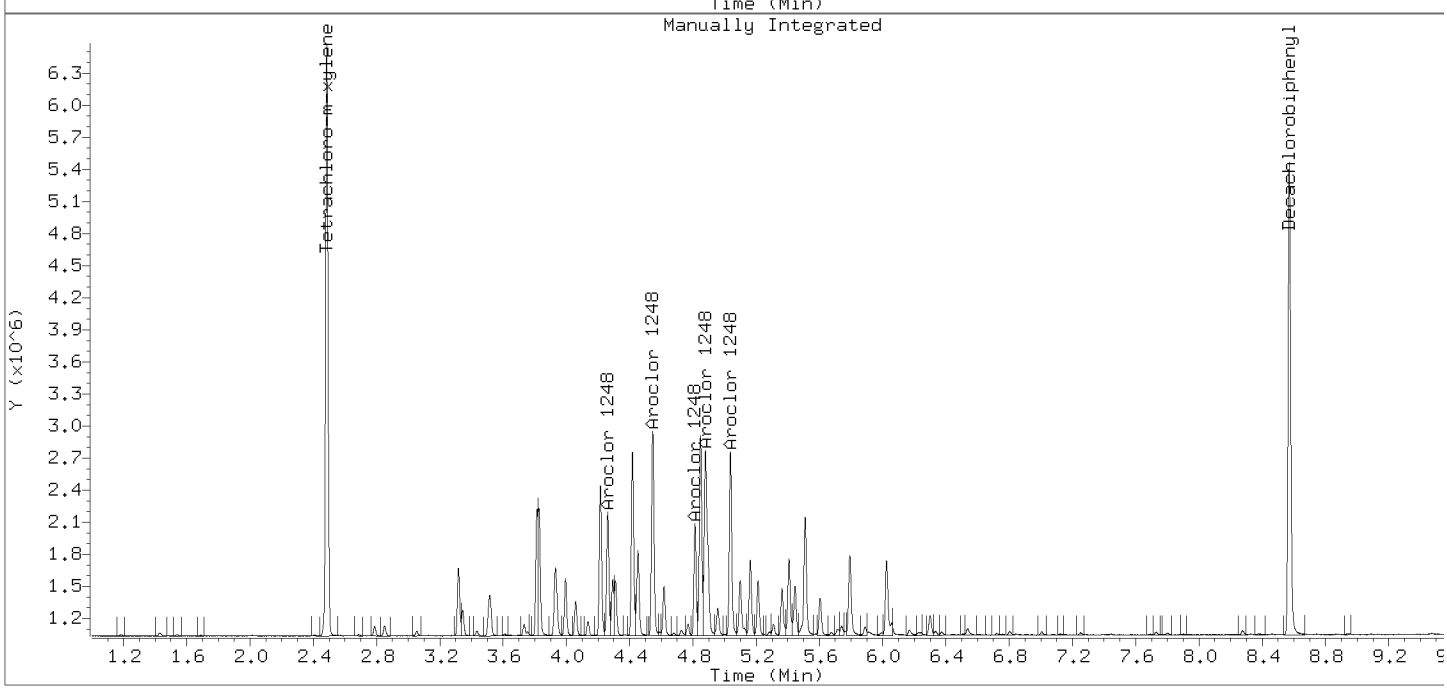
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Date : 06-MAR-2018 20:44
Client ID: 1248-ICV
Sample Info: 1248-ICV, 185563:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

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

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5956440	0.05000	0.048			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	2454298	0.50000	0.47	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	2011998	0.50000	0.47	0.00- 20.00	81.98	BA
5.510	5.510	0.000	3557060	0.50000	0.46	0.00- 20.00	144.93	BA
6.026	6.027	-0.001	2279656	0.50000	0.47	0.00- 20.00	92.88	BA
6.299	6.299	0.000	3175761	0.50000	0.49	0.00- 20.00	129.40	BA
Average of Peak Amounts =					0.47200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5194608	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618076.D

Date : 06-MAR-2018 21:00

Client ID: 1254-ICV

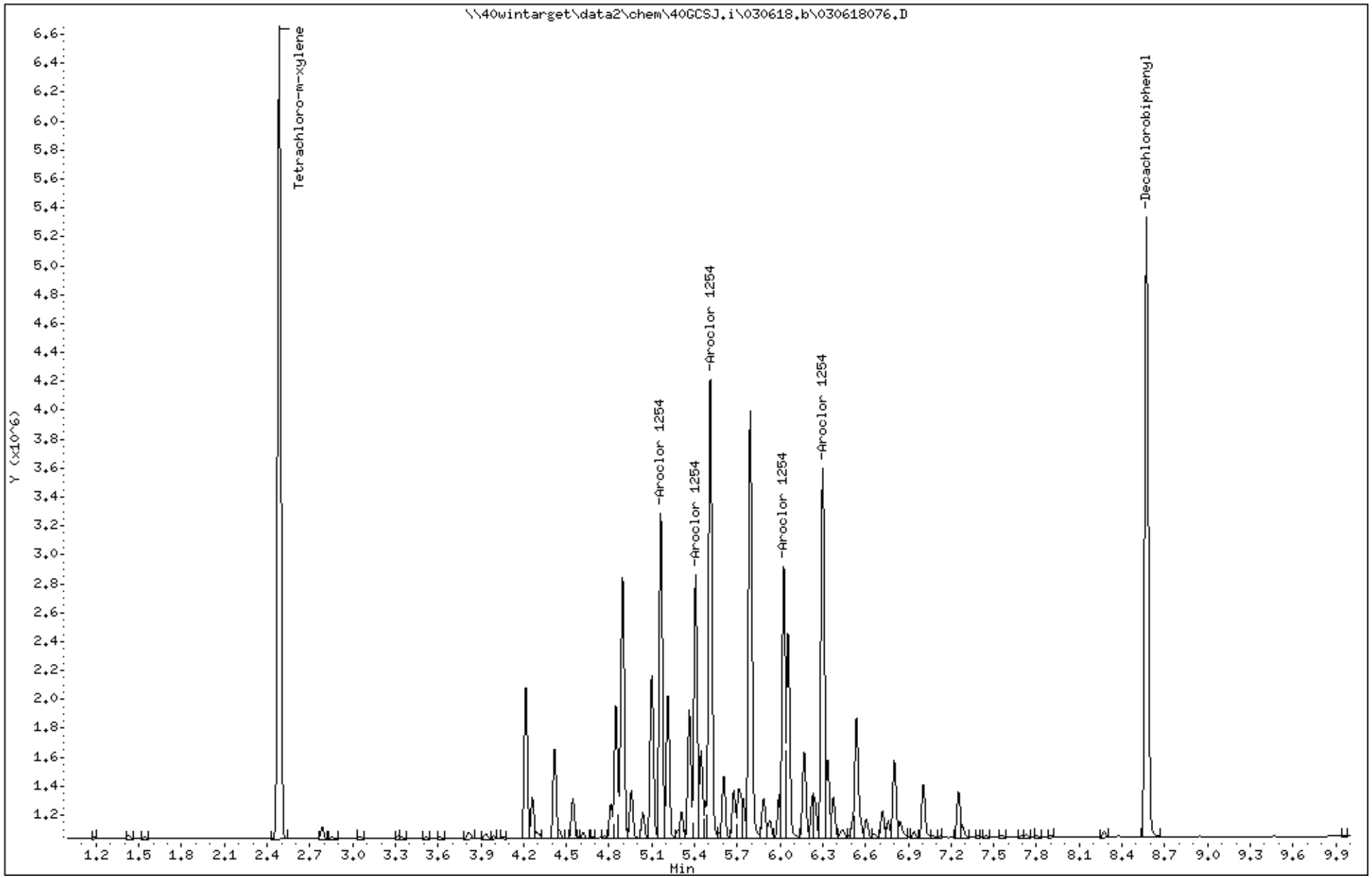
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

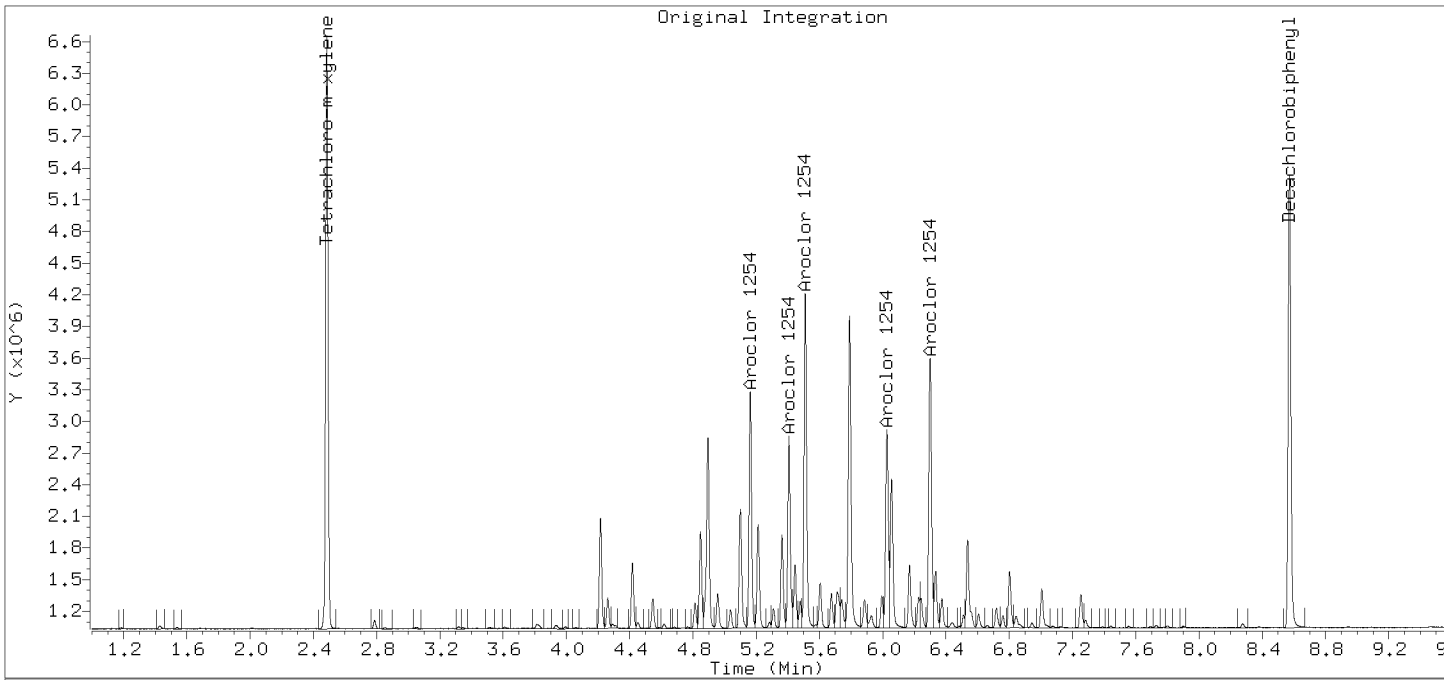
Operator: BLM

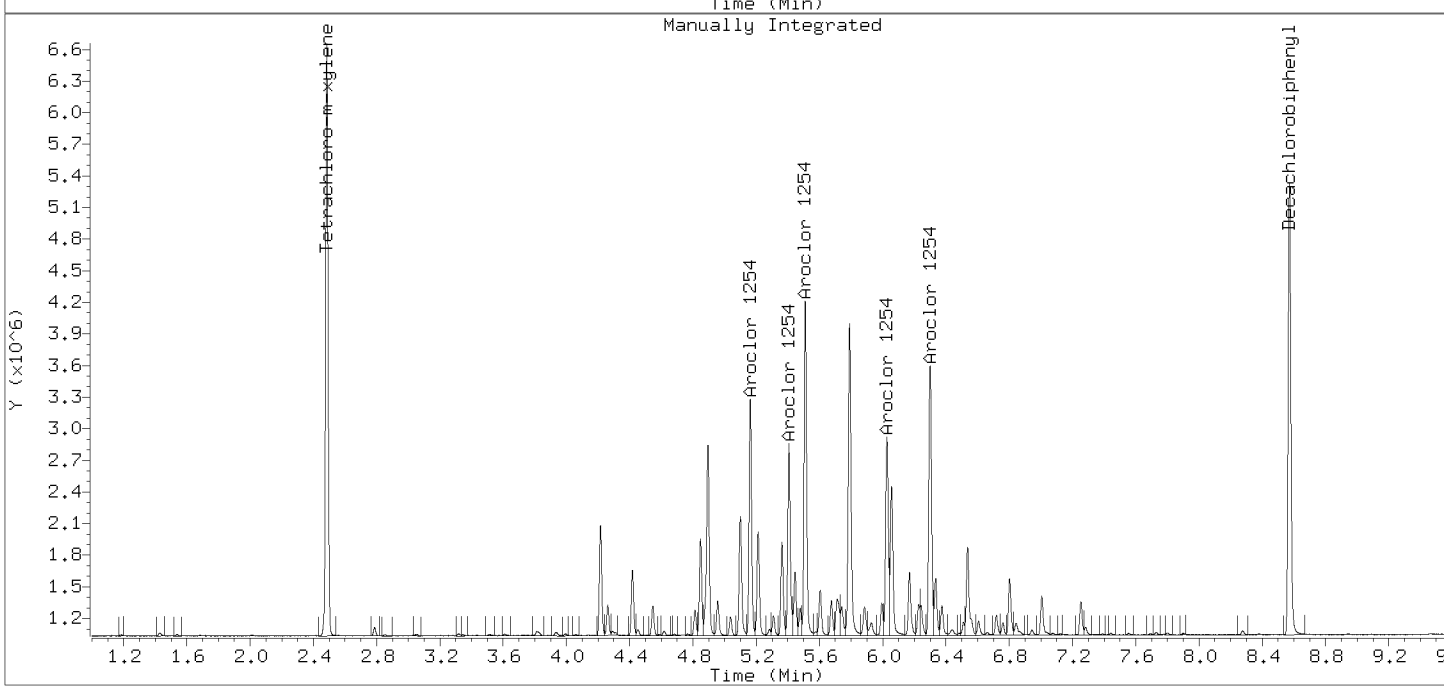
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D

Date : 06-MAR-2018 21:16

Client ID: 1660-ICV

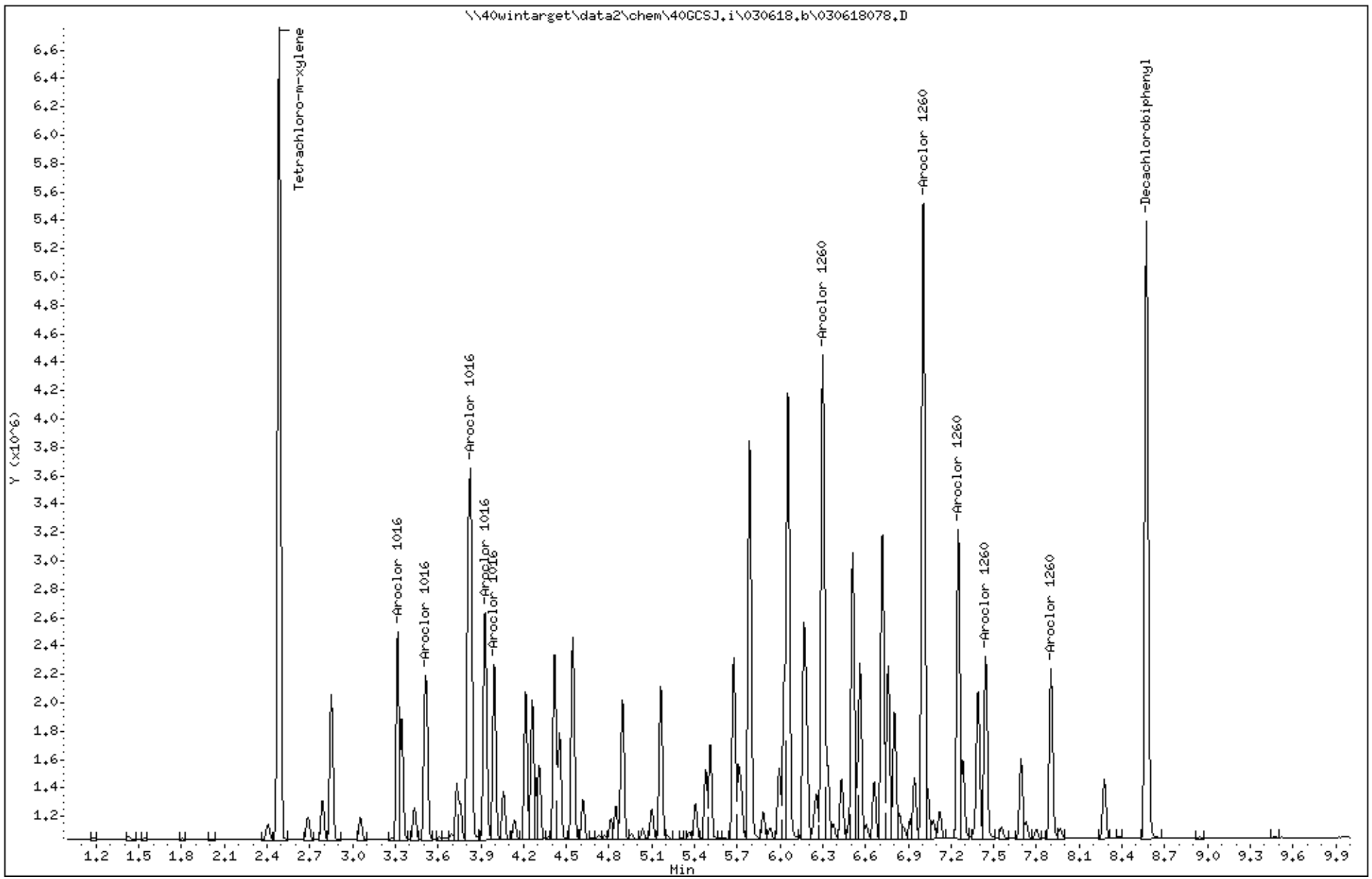
Instrument: 40GCSJ.i

Sample Info: 1660-ICV, 185565:1

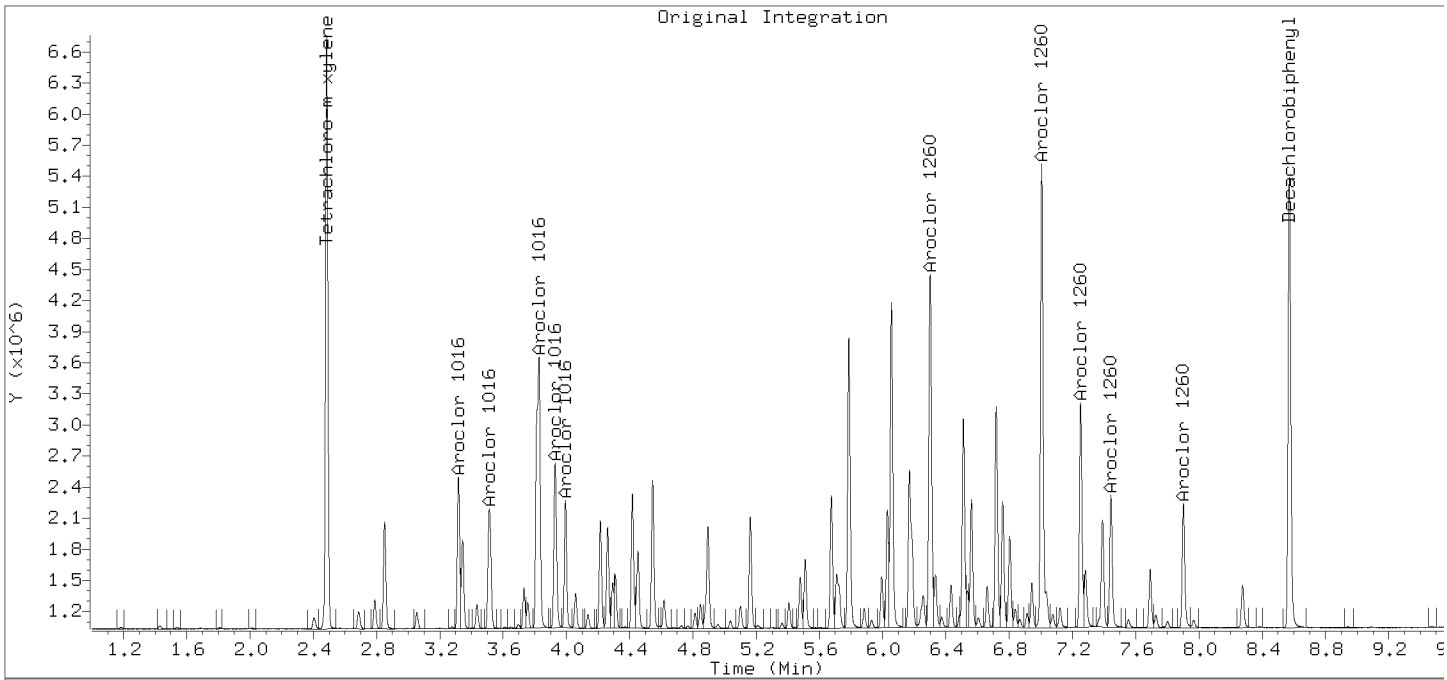
Operator: BLM

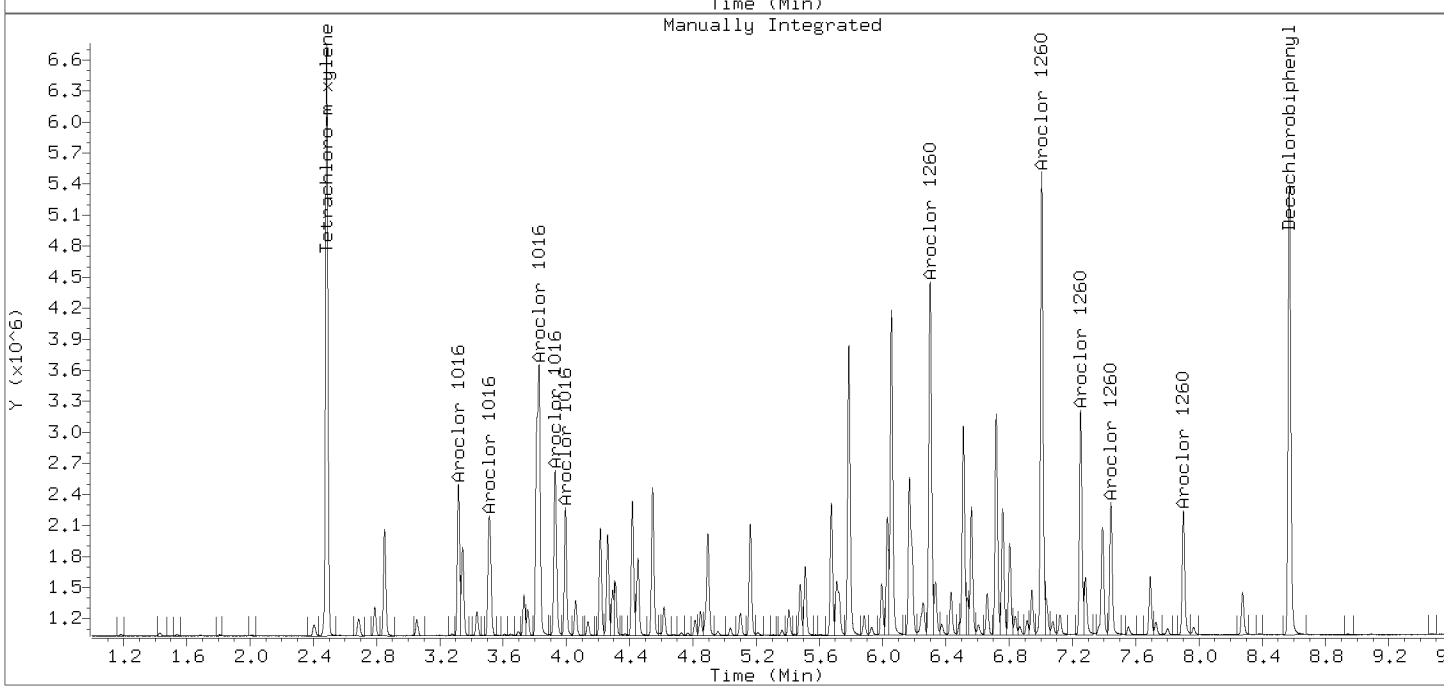
Column phase: ZB-1ms

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\031618.b\031618004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 16-MAR-2018 14:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 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: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	11298	10519	0.931	0.02		
1.429	37436	31428	0.840	0.08		
1.539	23975	17503	0.730	0.05		
1.687	29320	23924	0.816	0.06		
2.406	21641	18261	0.844	0.04		
2.484	5889168	5729532	0.973	13.99	$ 2 Tetrachloro-m-xylene	
2.687	33806	26904	0.796	0.07		
2.788	113262	107660	0.951	0.26		
2.851	184779	176608	0.956	0.42		
3.053	58137	54743	0.942	0.13		
3.317	707126	680733	0.963	1.63		
3.344	291384	280197	0.962	0.67		
3.433	61521	60267	0.980	0.14		
3.516	585881	430769	0.735	1.35		
3.608	15204	16316	1.073	0.03		
3.695	9225	10495	1.138	0.02		
3.732	137510	135034	0.982	0.31		
3.755	60278	55181	0.915	0.13		
3.814	1032377	1197436	1.160	2.38		
3.826	1292694	1251941	0.968	2.98		
3.930	883230	686366	0.777	2.03		
3.993	578229	551686	0.954	1.33		
4.059	343023	312489	0.911	0.79		
4.137	145579	129684	0.891	0.33		
4.215	1480150	1395550	0.943	3.41		
4.261	1179110	1102439	0.935	2.72	6 Aroclor 1248	BA
4.293	489111	488522	0.999	1.12		
4.310	509247	500520	0.983	1.17		
4.417	1804700	1702908	0.944	4.16		
4.453	879940	758936	0.862	2.03		
4.546	2042111	1883270	0.922	4.71	6 Aroclor 1248	BA
4.591	31145	32303	1.037	0.07		
4.618	469249	434524	0.926	1.08		
4.681	29946	22980	0.767	0.06		
4.727	62957	49451	0.785	0.14		
4.768	108215	103452	0.956	0.24		
4.813	1006809	968871	0.962	2.32	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.848	1932062	1862117	0.964	4.45	
4.879	2462794	1650665	0.670	5.68	6 Aroclor 1248
4.957	305534	246708	0.807	0.70	
5.037	1743651	1659995	0.952	4.02	6 Aroclor 1248
5.099	642240	517381	0.806	1.48	
5.163	763258	704778	0.923	1.76	
5.212	545298	497644	0.913	1.25	
5.286	37264	36128	0.970	0.08	
5.310	122816	102001	0.831	0.28	
5.363	476342	417515	0.877	1.09	
5.407	807131	712568	0.883	1.86	
5.446	492770	430925	0.874	1.13	
5.510	1331455	1123316	0.844	3.07	
5.604	387466	334303	0.863	0.89	
5.676	46823	40533	0.866	0.10	
5.716	80778	61929	0.767	0.18	
5.740	96181	88411	0.919	0.22	
5.792	919652	739544	0.804	2.12	
5.889	94348	76542	0.811	0.21	
5.993	30201	28600	0.947	0.06	
6.024	730483	655997	0.898	1.68	
6.057	162955	125854	0.772	0.37	
6.168	82825	56424	0.681	0.19	
6.299	235999	197838	0.838	0.54	
6.333	45156	39021	0.864	0.10	
6.372	34324	30083	0.876	0.07	
6.436	22379	13032	0.582	0.05	
6.512	44162	37176	0.842	0.10	
6.535	93830	65419	0.697	0.21	
6.602	15810	12139	0.768	0.03	
6.716	39181	32882	0.839	0.09	
6.758	20936	18476	0.882	0.04	
6.801	39502	34780	0.880	0.09	
6.840	13929	12190	0.875	0.03	
7.005	83900	63724	0.760	0.19	
7.119	14985	11535	0.770	0.03	
7.251	29404	24874	0.846	0.06	
7.283	13531	9720	0.718	0.03	
7.390	33079	26775	0.809	0.07	
7.443	33680	29515	0.876	0.07	
7.690	17514	14869	0.849	0.04	
7.728	29796	24624	0.826	0.06	
7.802	18570	15021	0.809	0.04	
7.902	29176	24138	0.827	0.06	
8.274	60729	51522	0.848	0.14	
8.374	25285	14404	0.570	0.05	
8.570	5298097	4582313	0.865	12.22	$ 12 Decachlorobiphenyl
8.937	18611	11260	0.605	0.04	
9.390	10481	12950	1.236	0.02	
9.416	22585	14226	0.630	0.05	
9.455	22756	15381	0.676	0.05	
9.834	42892	9463	0.221	0.09	
	43343381	39058630		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 16-MAR-2018 14:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 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: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5889168	0.05000	0.048			
6 Aroclor 1248						CAS #: 12672-29-6		
4.260	4.261	-0.001	1179110	0.50000	0.50	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2042111	0.50000	0.49	0.00- 20.00	173.19	BA
4.812	4.812	0.000	1006809	0.50000	0.50	0.00- 20.00	85.39	BA
4.878	4.879	-0.001	2462794	0.50000	0.49	0.00- 20.00	208.87	BA
5.036	5.038	-0.002	1743650	0.50000	0.48	0.00- 20.00	147.88	BA
Average of Peak Amounts =					0.49200			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5298096	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\031618.b\031618004.D

Date : 16-MAR-2018 14:25

Client ID: 1248-CCV

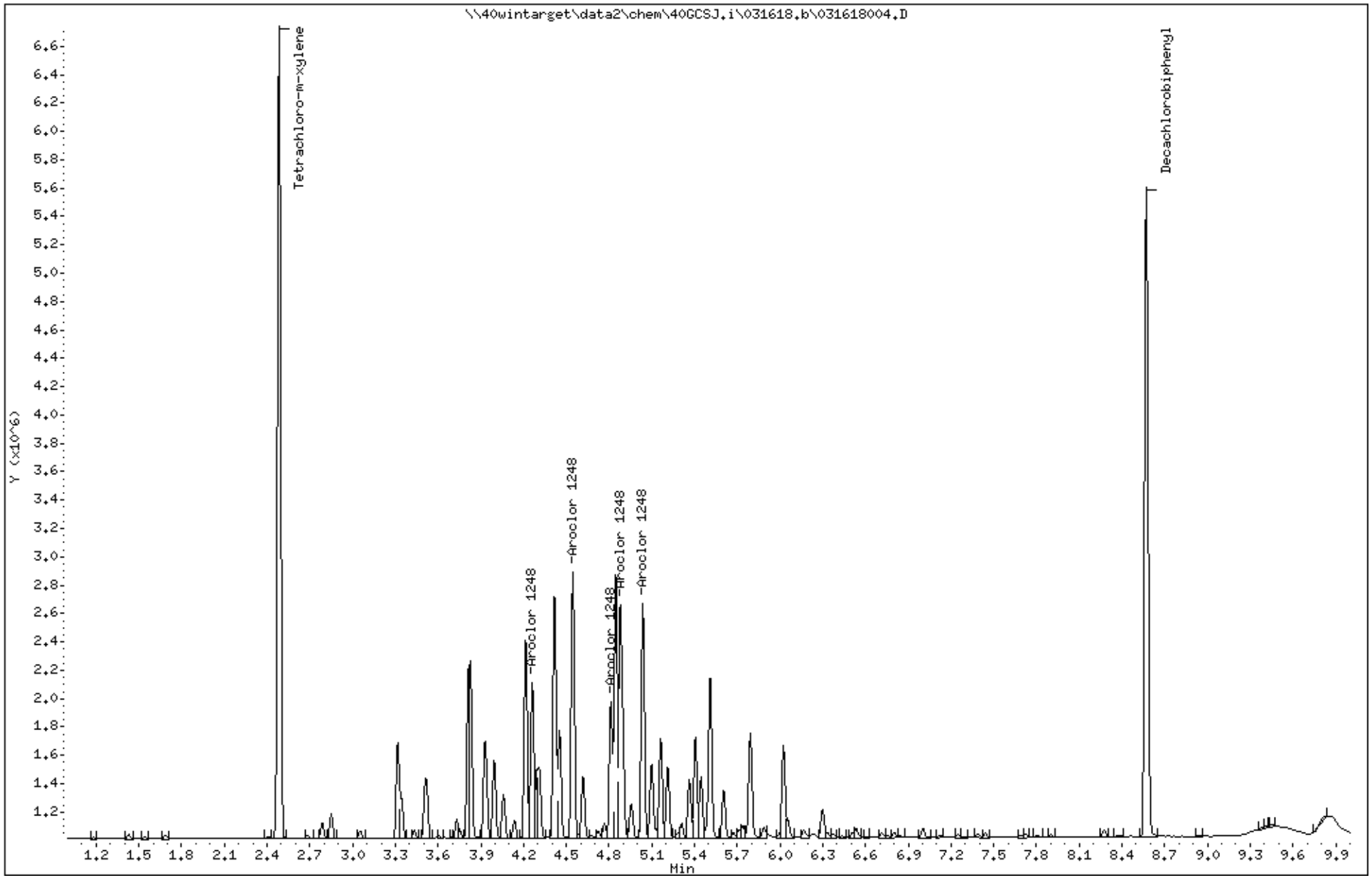
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

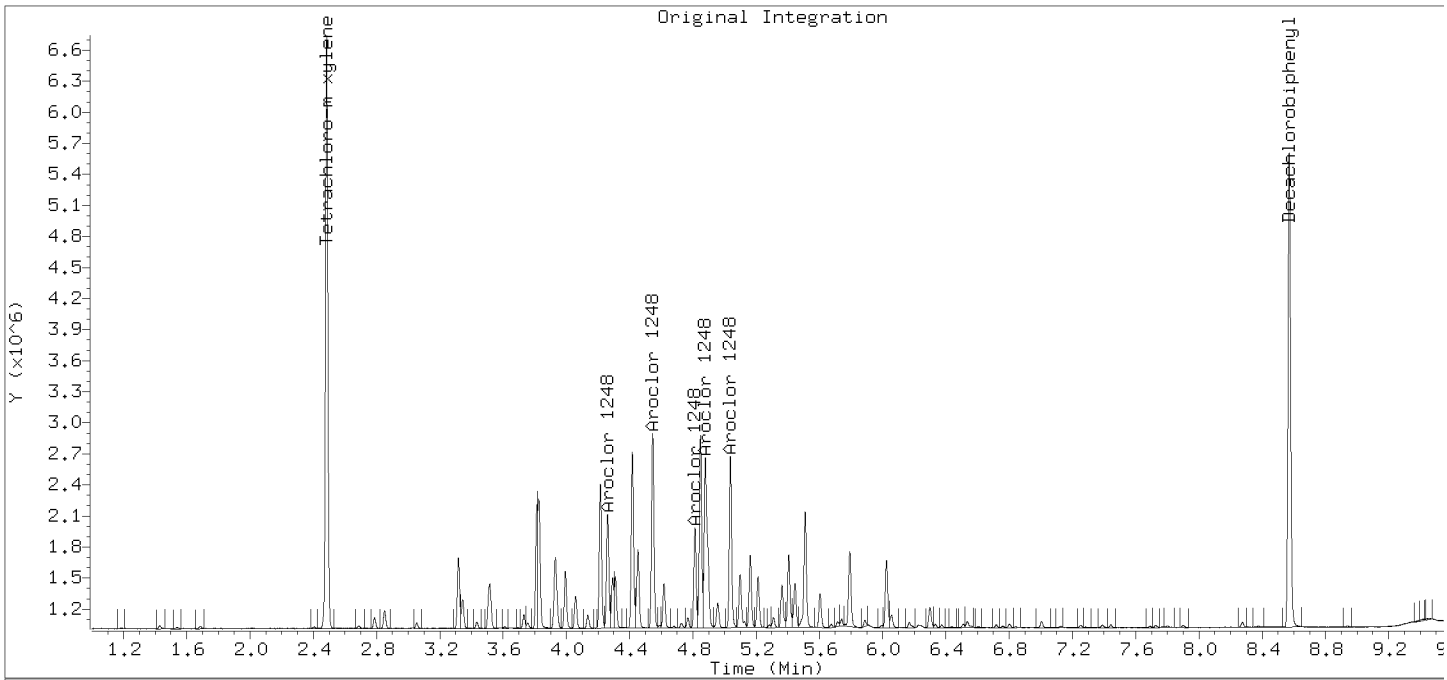
Operator: BLM

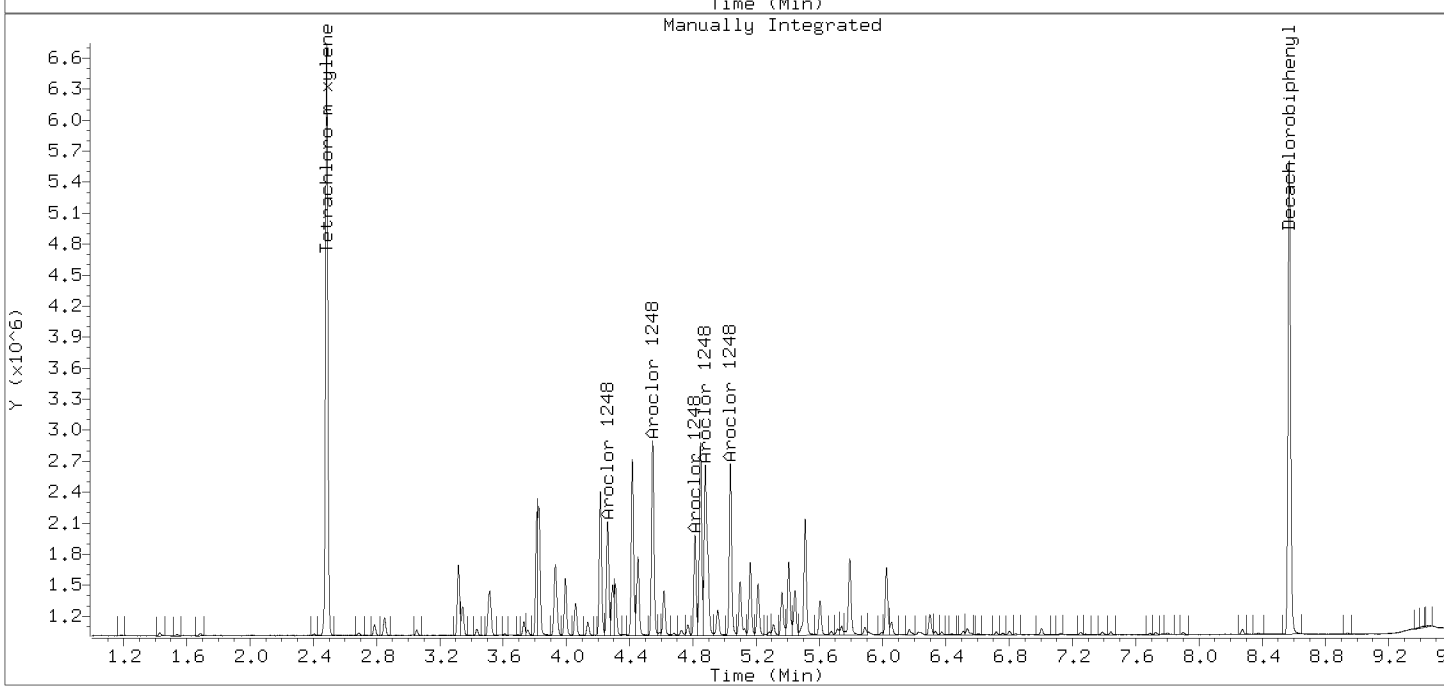
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618004.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 16-MAR-2018 14:25 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1170506	1179110	BA
Aroclor 1248	1170506	1179110	BA
Aroclor 1248	1170506	1179110	BA
Aroclor 1248	1170506	1179110	BA
Aroclor 1248	1170506	1179110	BA
Tetrachloro-m-xylene	5889168	5889168	
Decachlorobiphenyl	5298096	5298096	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 16-MAR-2018 17:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 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: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.428	35596	29678	0.834	0.06		
1.539	21997	15345	0.698	0.04		
1.687	25209	21225	0.842	0.04		
2.484	5948097	5680700	0.955	11.61	$ 2 Tetrachloro-m-xylene	
2.786	83803	81523	0.973	0.15		
2.850	21191	20043	0.946	0.03		
3.049	16341	16164	0.989	0.03		
3.317	33287	31168	0.936	0.06		
3.343	20877	17649	0.845	0.03		
3.510	29309	22602	0.771	0.05		
3.584	10411	9328	0.896	0.01		
3.608	21966	21658	0.986	0.04		
3.731	18746	17072	0.911	0.03		
3.779	13537	11922	0.881	0.02		
3.815	101818	58152	0.571	0.19		
3.934	63054	42727	0.678	0.11		
3.995	24999	24592	0.984	0.04		
4.053	16450	15213	0.925	0.03		
4.214	1233266	1178171	0.955	2.31		
4.260	332667	324881	0.977	0.62		
4.292	70089	49671	0.709	0.13		
4.417	756195	719072	0.951	1.41		
4.453	73110	68737	0.940	0.13		
4.545	341884	328660	0.961	0.64		
4.591	14091	15882	1.127	0.02		
4.618	57507	55619	0.967	0.10		
4.681	18666	16417	0.880	0.03		
4.766	22305	20775	0.931	0.04		
4.812	291620	280849	0.963	0.54		
4.847	1128072	1091857	0.968	2.11		
4.895	2398909	1888249	0.787	4.50		
4.956	387013	352935	0.912	0.72		
5.036	243564	229908	0.944	0.45		
5.099	1414153	1238817	0.876	2.65		
5.161	2612673	2406349	0.921	4.90	7 Aroclor 1254	BA
5.211	1190000	1085008	0.912	2.23		
5.282	58435	57710	0.988	0.10		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.309	218838	197948	0.905	0.41	
5.362	1047869	994330	0.949	1.96	
5.405	2163941	1960363	0.906	4.06	7 Aroclor 1254
5.444	739072	685091	0.927	1.38	
5.476	260922	254633	0.976	0.48	
5.510	3890448	3492394	0.898	7.30	7 Aroclor 1254
5.576	31347	29424	0.939	0.05	
5.603	539158	499677	0.927	1.01	
5.673	349322	324316	0.928	0.65	
5.712	532979	357972	0.672	1.00	
5.739	337497	280418	0.831	0.63	
5.789	3964728	3272262	0.825	7.44	
5.885	342224	271030	0.792	0.64	
5.928	180394	112555	0.624	0.33	
5.992	320768	310959	0.969	0.60	
6.025	2544072	2120787	0.834	4.77	7 Aroclor 1254
6.054	1736548	1517948	0.874	3.25	
6.167	703452	612396	0.871	1.32	
6.225	283648	291265	1.027	0.53	
6.241	326924	290916	0.890	0.61	
6.299	3331536	2777273	0.834	6.25	7 Aroclor 1254
6.332	567778	522939	0.921	1.06	
6.374	324344	280591	0.865	0.60	
6.437	78129	51353	0.657	0.14	
6.484	19613	17700	0.902	0.03	
6.508	116343	125688	1.080	0.21	
6.535	1128402	900326	0.798	2.11	
6.603	162614	140136	0.862	0.30	
6.659	28630	24383	0.852	0.05	
6.717	222726	185814	0.834	0.41	
6.758	130470	114986	0.881	0.24	
6.801	634988	587963	0.926	1.19	
6.842	171241	116943	0.683	0.32	
6.942	58183	48983	0.842	0.10	
7.004	451134	379268	0.841	0.84	
7.075	24162	16959	0.702	0.04	
7.119	16158	10703	0.662	0.03	
7.251	359771	328357	0.913	0.67	
7.279	69521	64246	0.924	0.13	
7.385	22019	16658	0.757	0.04	
7.441	22417	22416	1.000	0.04	
7.554	26338	19375	0.736	0.04	
7.690	14920	13453	0.902	0.02	
7.728	19902	19183	0.964	0.03	
7.799	14404	12869	0.893	0.02	
7.902	25502	19717	0.773	0.04	
8.275	56985	46002	0.807	0.10	
8.380	10506	8521	0.811	0.01	
8.570	5481191	5023662	0.917	10.28	$ 12 Decachlorobiphenyl
9.462	11331	9280	0.819	0.02	
9.871	11395	7435	0.652	0.02	
	53277712	47336194		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 16-MAR-2018 17:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 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: 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	5948096	0.05000	0.048			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2612673	0.50000	0.50	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	2163941	0.50000	0.50	0.00- 20.00	82.82	BA
5.509	5.510	-0.001	3890447	0.50000	0.50	0.00- 20.00	148.91	BA
6.024	6.027	-0.003	2544071	0.50000	0.52	0.00- 20.00	97.37	BA
6.299	6.299	0.000	3331535	0.50000	0.51	0.00- 20.00	127.51	BA
Average of Peak Amounts =					0.50600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5481190	0.05000	0.050			

QC Flag Legend

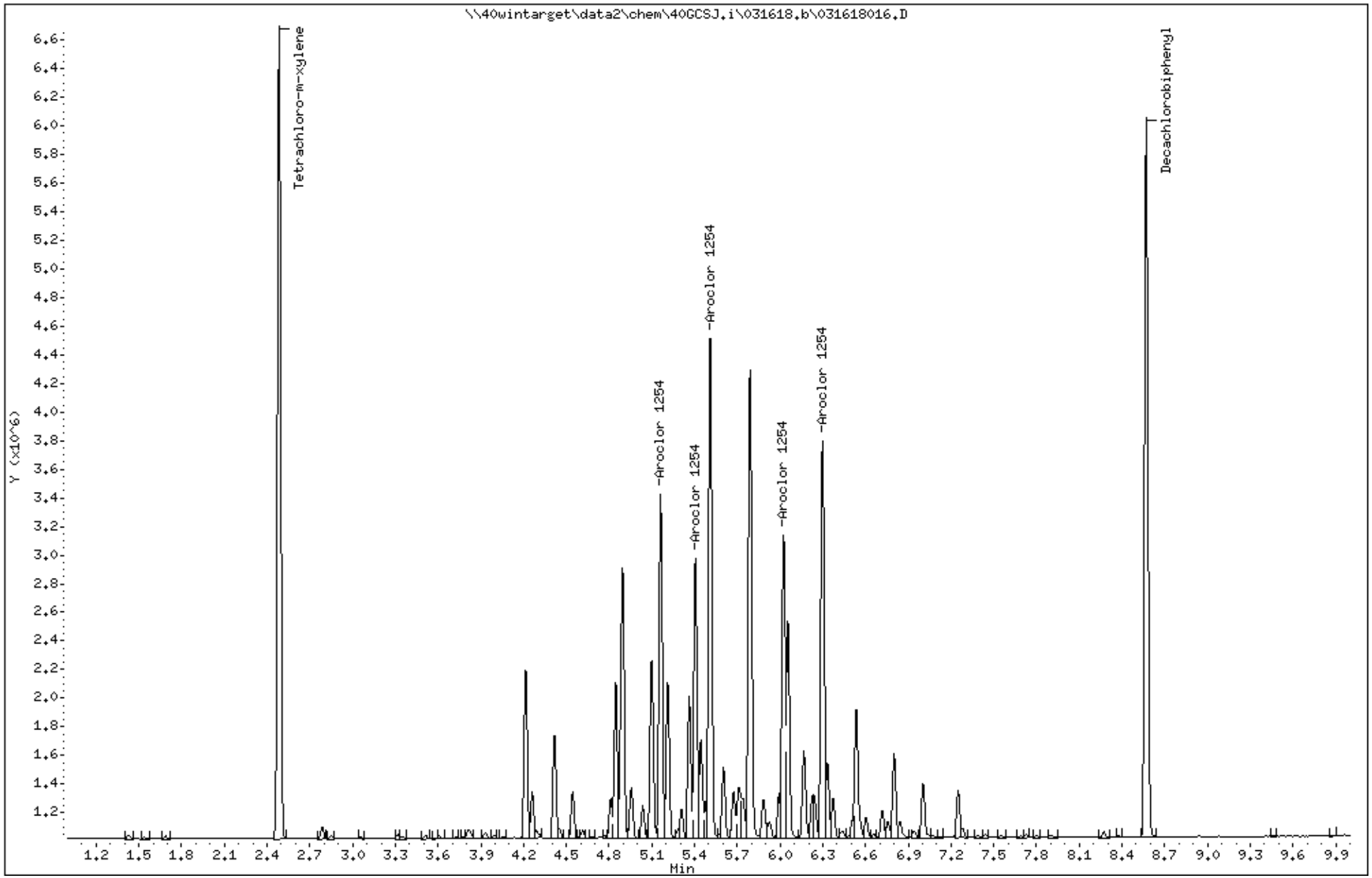
M - Compound response manually integrated.

Review Codes Legend

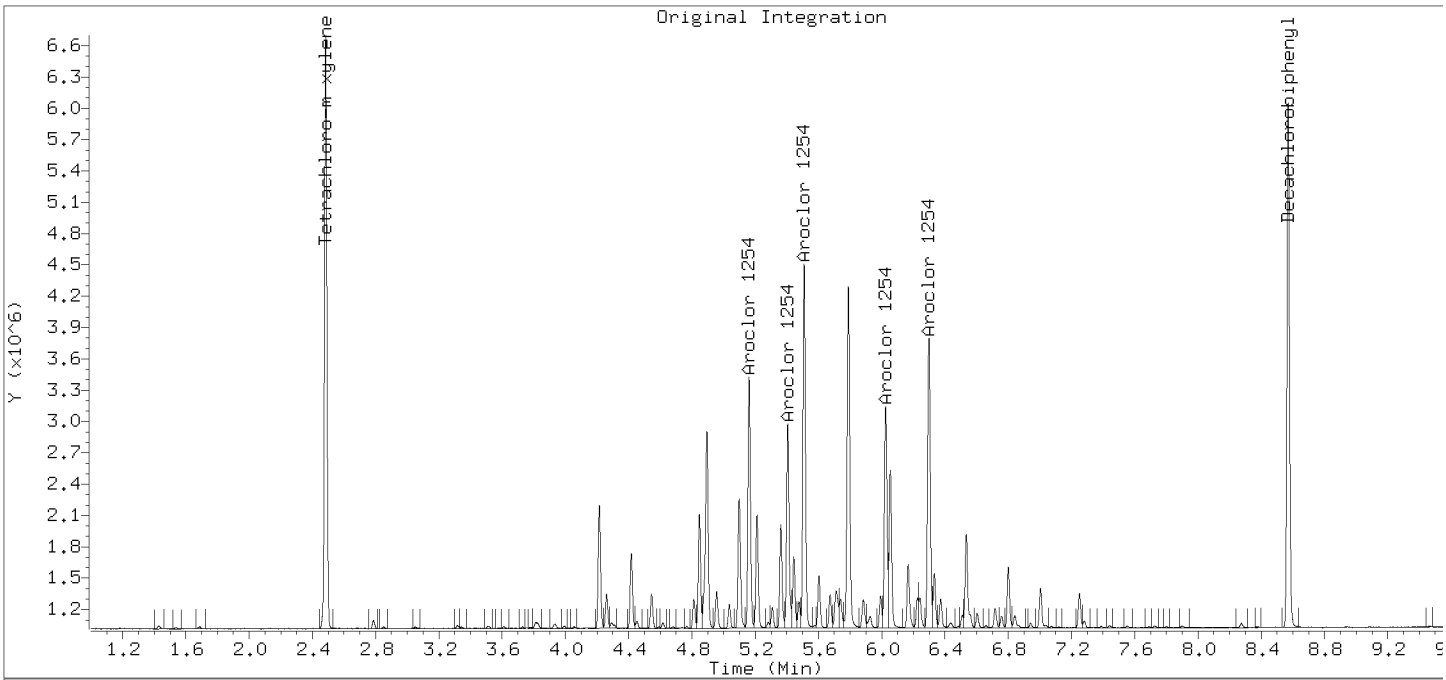
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

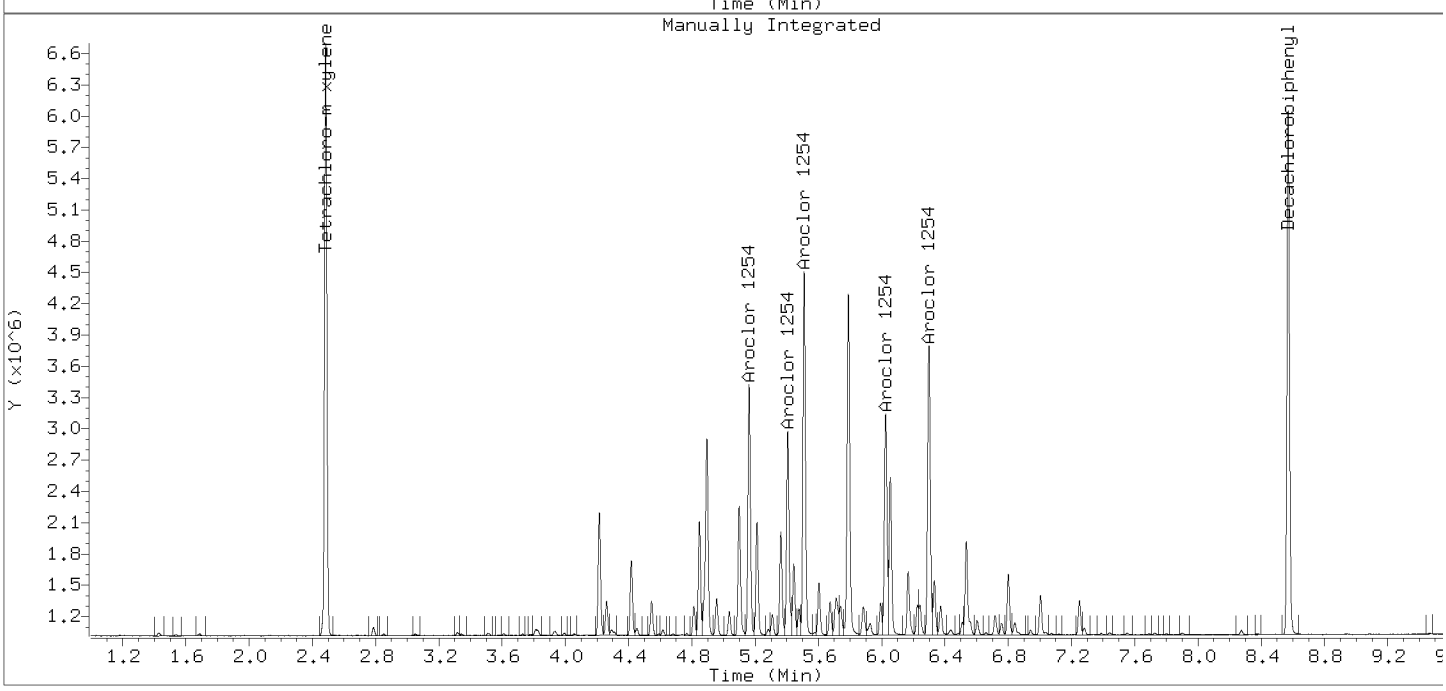
Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618016.D
Date : 16-MAR-2018 17:35
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618016.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 16-MAR-2018 17:35 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2606424	2612673	BA
Aroclor 1254	2606424	2612673	BA
Aroclor 1254	2606424	2612673	BA
Aroclor 1254	2606424	2612673	BA
Aroclor 1254	2606424	2612673	BA
Tetrachloro-m-xylene	5948096	5948096	
Decachlorobiphenyl	5481190	5481190	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618028.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 16-MAR-2018 20:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 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
1.428	41933	35144	0.838	0.04		
1.536	19381	15074	0.778	0.02		
1.683	26249	18891	0.720	0.02		
1.803	16825	14169	0.842	0.01		
2.406	144690	115353	0.797	0.15		
2.484	6411647	6273706	0.978	7.60	$ 2 Tetrachloro-m-xylene	
2.687	218955	178817	0.817	0.24		
2.788	320541	303694	0.947	0.35		
2.850	1188087	1125214	0.947	1.30		
3.054	169962	163514	0.962	0.18		
3.278	29645	21471	0.724	0.03		
3.317	1628345	1520962	0.934	1.79	5 Aroclor 1016	BA
3.343	927446	867567	0.935	1.01		
3.434	251445	239084	0.951	0.27		
3.513	1619075	1180018	0.729	1.78	5 Aroclor 1016	BA
3.609	23968	23084	0.963	0.02		
3.647	26916	17648	0.656	0.02		
3.695	47466	45676	0.962	0.05		
3.731	422504	421169	0.997	0.46		
3.755	290998	264800	0.910	0.31		
3.826	4757448	2797803	0.588	5.23	5 Aroclor 1016	BA
3.928	2018898	1681024	0.833	2.21	5 Aroclor 1016	BA
3.993	1334986	1287152	0.964	1.46	5 Aroclor 1016	BA
4.058	381571	350624	0.919	0.41		
4.137	158025	137734	0.872	0.17		
4.214	1170962	1124268	0.960	1.28		
4.260	1051118	1005002	0.956	1.15		
4.292	443958	456051	1.027	0.48		
4.310	542263	521991	0.963	0.59		
4.369	42704	29563	0.692	0.04		
4.416	1463484	1357528	0.928	1.60		
4.451	1080074	800414	0.741	1.18		
4.545	1847468	1707992	0.925	2.03		
4.589	20696	24920	1.204	0.02		
4.616	413734	387428	0.936	0.45		
4.680	34865	22135	0.635	0.03		
4.726	68479	60307	0.881	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.767	62606	55893	0.893	0.06	
4.812	350765	335955	0.958	0.38	
4.847	541448	520538	0.961	0.59	
4.893	1668099	1246584	0.747	1.83	
4.956	107330	86762	0.808	0.11	
5.036	101822	94856	0.932	0.11	
5.100	357838	303353	0.848	0.39	
5.161	1395984	1326288	0.950	1.53	
5.211	61011	52518	0.861	0.06	
5.309	22959	16569	0.722	0.02	
5.360	99996	87787	0.878	0.10	
5.406	386228	353484	0.915	0.42	
5.447	18483	17628	0.954	0.02	
5.477	546207	524010	0.959	0.60	
5.508	972942	902547	0.928	1.06	
5.563	13555	10431	0.770	0.01	
5.604	22915	17708	0.773	0.02	
5.674	1414945	1333100	0.942	1.55	
5.708	1004443	564096	0.562	1.10	
5.785	3507336	3017766	0.860	3.85	
5.881	235808	218749	0.928	0.25	
5.928	113589	93120	0.820	0.12	
5.992	599476	575032	0.959	0.65	
6.028	1346479	1329734	0.988	1.48	
6.054	3910260	3325564	0.850	4.29	
6.168	2522301	1646347	0.653	2.77	
6.255	563230	326502	0.580	0.61	
6.298	4818624	4200949	0.872	5.29	8 Aroclor 1260
6.332	648585	598188	0.922	0.71	
6.372	156721	132714	0.847	0.17	
6.431	472779	417273	0.883	0.51	
6.485	105940	126942	1.198	0.11	
6.509	2314779	2089593	0.903	2.54	
6.535	445987	493682	1.107	0.49	
6.559	1433752	1280140	0.893	1.57	
6.603	152581	134808	0.884	0.16	
6.660	453400	423152	0.933	0.49	
6.717	2492039	2275847	0.913	2.74	
6.757	1396965	1267812	0.908	1.53	
6.801	1166283	1040752	0.892	1.28	
6.837	203630	175294	0.861	0.22	
6.864	103440	91406	0.884	0.11	
6.911	157869	148783	0.942	0.17	
6.941	498564	456820	0.916	0.54	
7.004	5497445	4983186	0.906	6.04	8 Aroclor 1260
7.034	345876	316121	0.914	0.38	
7.073	154575	144058	0.932	0.16	
7.120	231350	198201	0.857	0.25	
7.250	2687442	2462117	0.916	2.95	8 Aroclor 1260
7.281	697068	621797	0.892	0.76	
7.388	1304169	1108151	0.850	1.43	
7.441	1565590	1385646	0.885	1.72	8 Aroclor 1260
7.552	123448	98819	0.800	0.13	
7.689	643089	584820	0.909	0.70	
7.726	89584	76123	0.850	0.09	
7.798	71540	57351	0.802	0.07	
7.898	1441994	1329567	0.922	1.58	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.964	101719	81867	0.805	0.11	
8.072	13471	8076	0.599	0.01	
8.273	362526	323854	0.893	0.39	
8.376	16994	11505	0.677	0.01	
8.570	5921269	5170352	0.873	6.51	$ 12 Decachlorobiphenyl
8.936	10024	9644	0.962	0.01	
9.083	9772	8674	0.888	0.01	
9.466	9466	9045	0.956	0.01	
9.962	18393	11318	0.615	0.02	
	90943609	79334359		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618028.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 16-MAR-2018 20:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 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	6411646	0.05000	0.052			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1628344	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.512	3.512	0.000	1619075	0.50000	0.52	0.00- 20.00	99.43	BA
3.826	3.826	0.000	4757447	0.50000	0.54	0.00- 20.00	292.16	BA
3.928	3.929	-0.001	2018897	0.50000	0.53	0.00- 20.00	123.98	BA
3.993	3.994	-0.001	1334985	0.50000	0.51	0.00- 20.00	81.98	BA
Average of Peak Amounts =					0.52600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	4818624	0.50000	0.54	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	5497445	0.50000	0.55	0.00- 20.00	114.09	BA
7.250	7.251	-0.001	2687442	0.50000	0.56	0.00- 20.00	55.77	BA
7.441	7.443	-0.002	1565589	0.50000	0.54	0.00- 20.00	32.49	BA
7.898	7.901	-0.003	1441994	0.50000	0.55	0.00- 20.00	29.93	BA
Average of Peak Amounts =					0.54800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5921269	0.05000	0.054			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

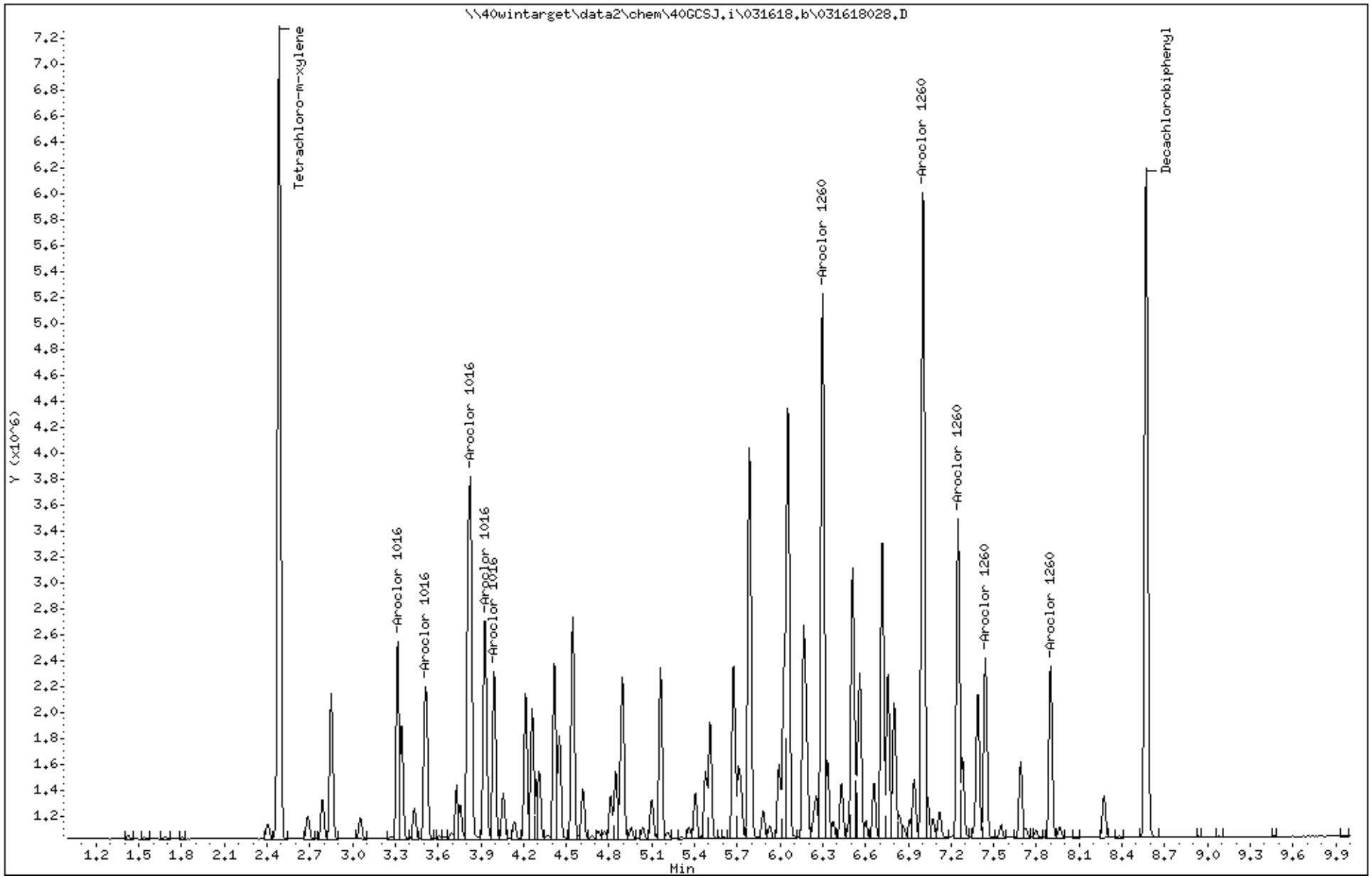
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618028.D
Date : 16-MAR-2018 20:45
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

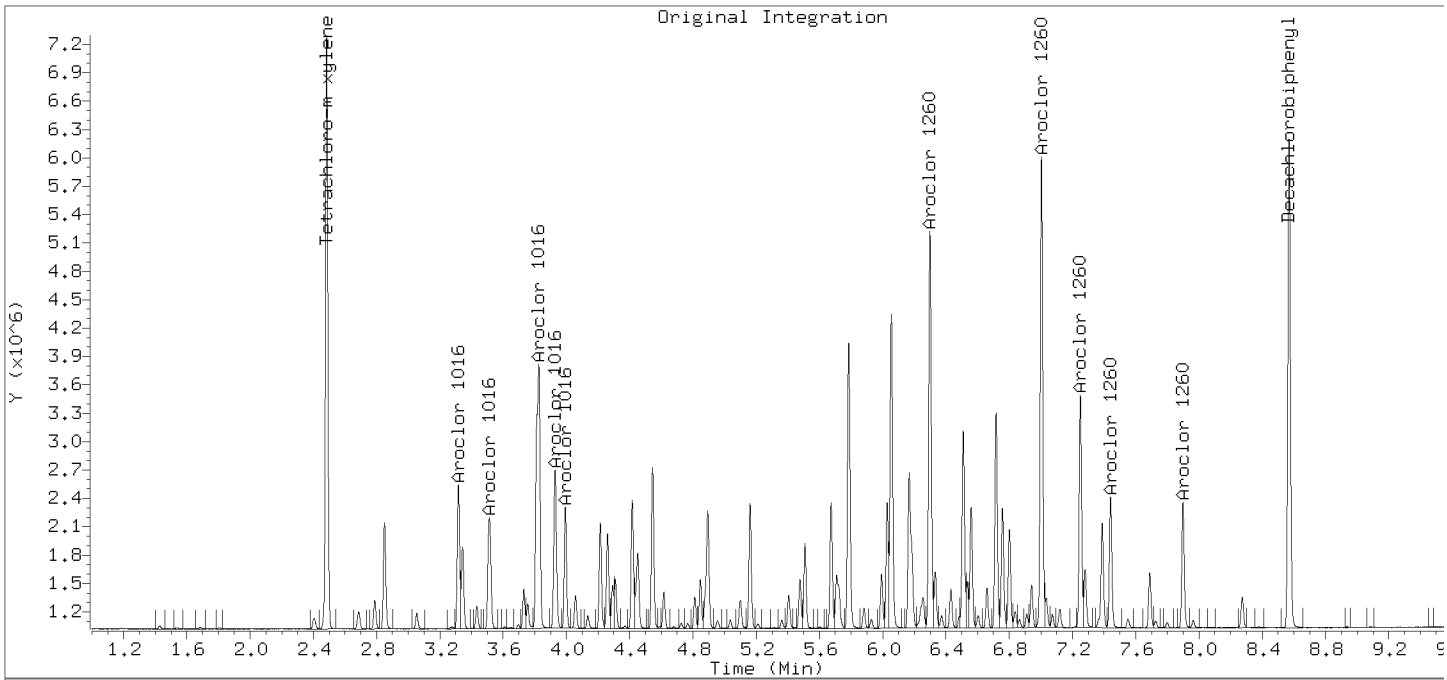
Column phase: ZB-1ms

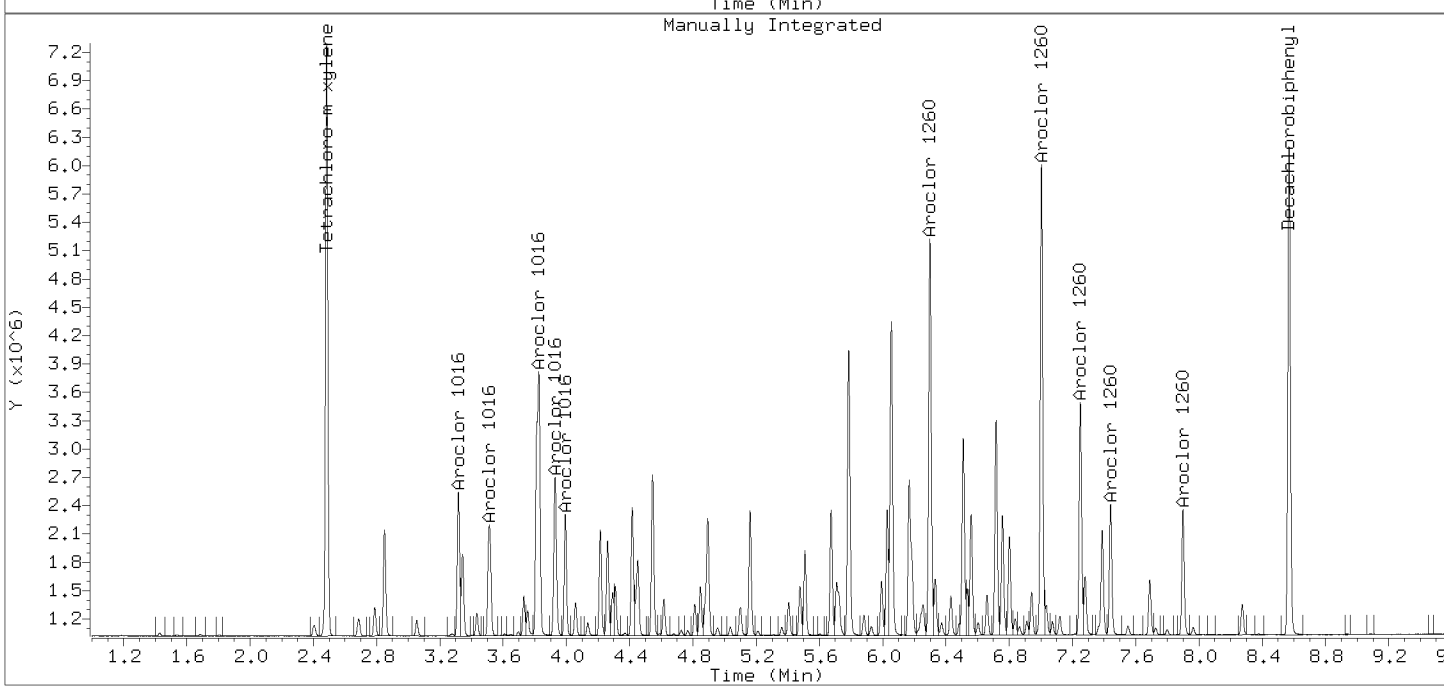
Instrument: 40GCSJ.i

Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618028.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 16-MAR-2018 20:45 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1621952	1628344	BA
Aroclor 1016	1621952	1628344	BA
Aroclor 1016	1621952	1628344	BA
Aroclor 1016	1621952	1628344	BA
Aroclor 1016	1621952	1628344	BA
Aroclor 1260	4803662	4818624	BA
Aroclor 1260	4803662	4818624	BA
Aroclor 1260	4803662	4818624	BA
Aroclor 1260	4803662	4818624	BA
Aroclor 1260	4803662	4818624	BA
Tetrachloro-m-xylene	6411646	6411646	
Decachlorobiphenyl	5921269	5921269	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618034.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 16-MAR-2018 22:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.185	20505	17566	0.857	0.11			
1.429	40617	27302	0.672	0.23			
1.535	26622	14820	0.557	0.15			
1.686	22180	18634	0.840	0.12			
1.804	501871	417836	0.833	2.86		1 Aroclor 1221	BA
2.009	21502	14554	0.677	0.12			
2.196	162659	138592	0.852	0.92			
2.406	259027	188505	0.728	1.47		1 Aroclor 1221	BA
2.484	5918144	5499974	0.929	34.03	$	2 Tetrachloro-m-xylene	BA
2.688	683025	567086	0.830	3.90		1 Aroclor 1221	BA
2.788	535180	497829	0.930	3.05		1 Aroclor 1221	BA
2.850	1649346	1462741	0.887	9.41		1 Aroclor 1221	BA
3.051	36421	28059	0.770	0.20			
3.279	121683	94772	0.779	0.69			
3.324	398790	235700	0.591	2.27			
3.434	39234	33090	0.843	0.22			
3.511	142678	105064	0.736	0.81			
3.608	29190	20494	0.702	0.16			
3.694	10556	12427	1.177	0.06			
3.731	46182	46557	1.008	0.26			
3.754	50454	39313	0.779	0.28			
3.827	335010	205189	0.612	1.91			
3.927	164831	138105	0.838	0.94			
3.994	100076	96289	0.962	0.57			
4.055	21646	16688	0.771	0.12			
4.214	36053	33380	0.926	0.20			
4.260	28582	31365	1.097	0.16			
4.292	14759	12493	0.846	0.08			
4.416	46061	44205	0.960	0.26			
4.437	52850	32204	0.609	0.30			
4.546	50933	46436	0.912	0.29			
4.617	15120	11772	0.779	0.08			
4.812	22171	20389	0.920	0.12			
4.846	34048	34142	1.003	0.19			
4.880	49077	38061	0.776	0.28			
5.034	37258	34185	0.918	0.21			
5.097	9851	10096	1.025	0.05			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.161	10702	9476	0.885	0.06	
5.211	11008	7583	0.689	0.06	
5.245	12262	11359	0.926	0.07	
5.384	40570	26978	0.665	0.23	
5.510	17039	12408	0.728	0.09	
6.190	13151	9733	0.740	0.07	
7.123	15488	11011	0.711	0.08	
7.728	19736	17755	0.900	0.11	
7.772	10830	9220	0.851	0.06	
7.798	19430	15211	0.783	0.11	
8.275	55390	42076	0.760	0.31	
8.376	19070	13934	0.731	0.10	
8.571	5505618	4841803	0.879	31.44	$ 12 Decachlorobiphenyl
9.086	11327	8298	0.733	0.06	
9.954	13528	9308	0.688	0.07	
	17509341	15332067		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618034.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 16-MAR-2018 22:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 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	5918144	0.05000	0.048		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	501871	0.50000	0.48	0.00- 20.00	100.00(M)	BA
2.406	2.407	-0.001	259026	0.50000	0.47	0.00- 20.00	51.61	BA
2.687	2.688	-0.001	683025	0.50000	0.49	0.00- 20.00	136.10	BA
2.788	2.789	-0.001	535180	0.50000	0.48	0.00- 20.00	106.64	BA
2.850	2.851	-0.001	1649346	0.50000	0.51	0.00- 20.00	328.64	BA
Average of Peak Amounts =					0.48600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5505618	0.05000	0.050			

QC Flag Legend

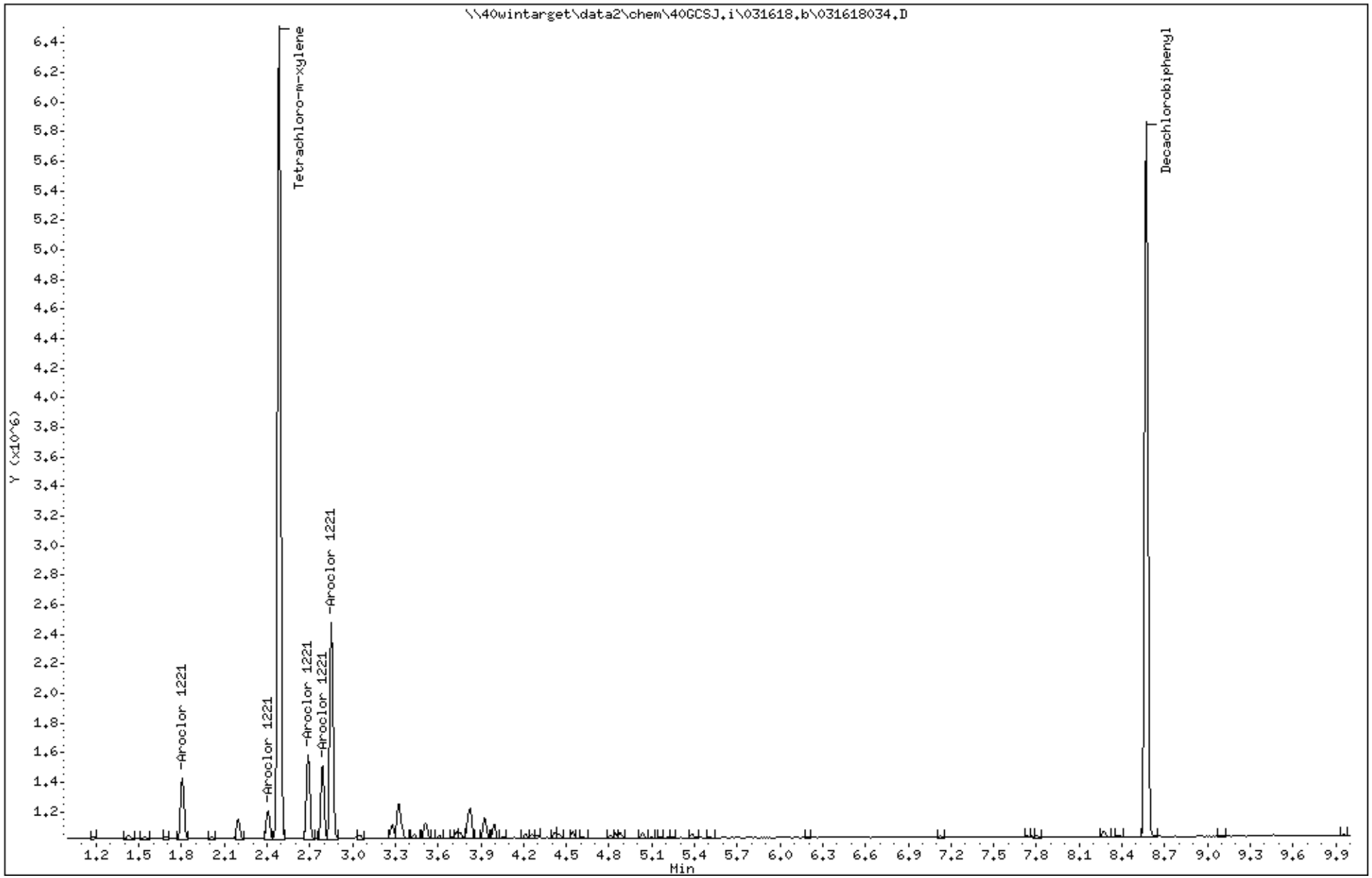
M - Compound response manually integrated.

Review Codes Legend

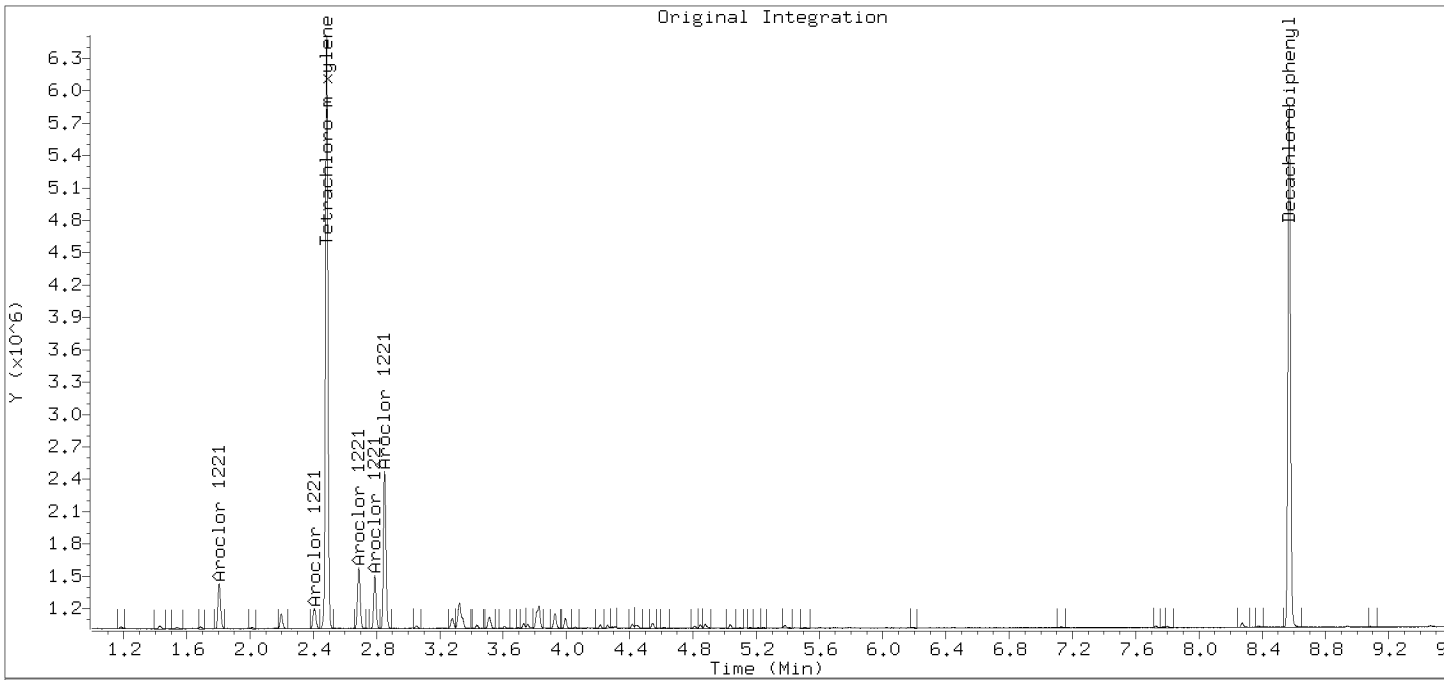
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

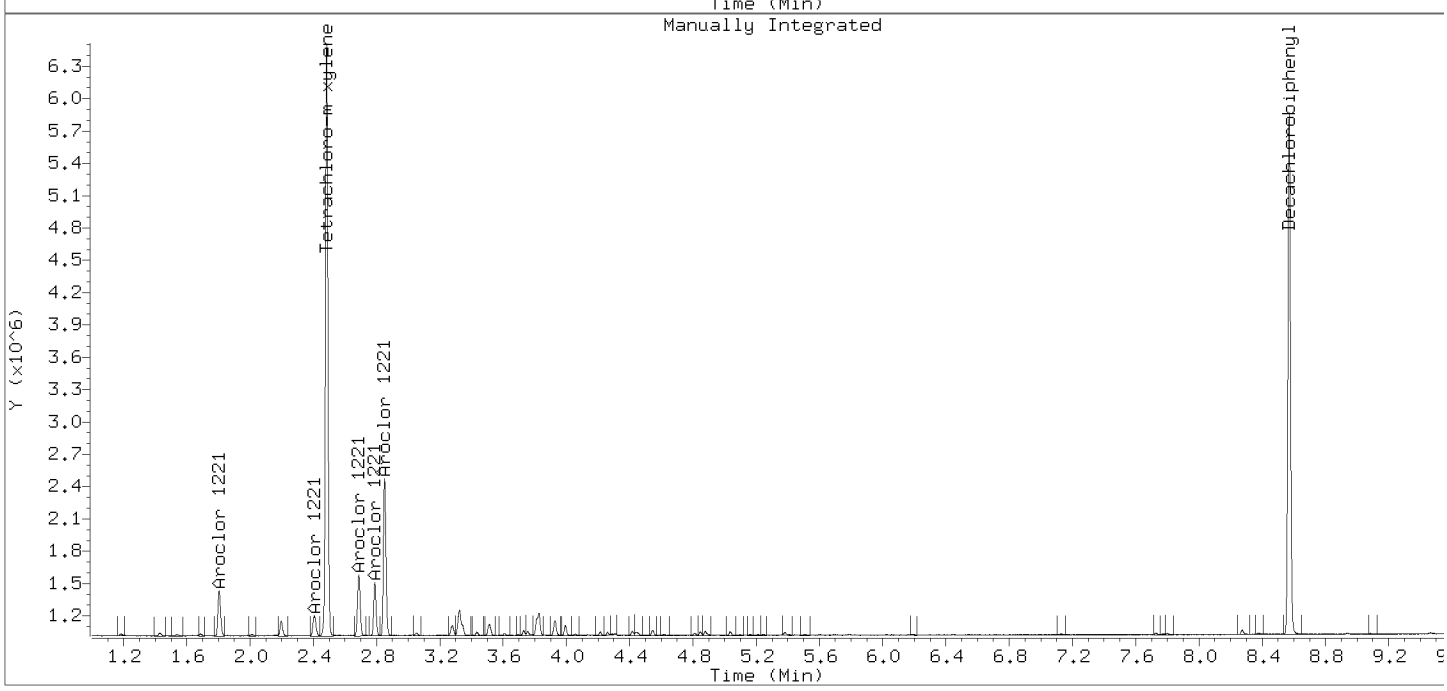
Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618034.D
Date : 16-MAR-2018 22:20
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618034.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 16-MAR-2018 22:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	494096	501871	BA
Aroclor 1221	494096	501871	BA
Aroclor 1221	494096	501871	BA
Aroclor 1221	494096	501871	BA
Aroclor 1221	494096	501871	BA
Tetrachloro-m-xylene	5900517	5918144	BA
Decachlorobiphenyl	5505618	5505618	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718004.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 27-MAR-2018 13:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 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: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.187	37014	26668	0.720	0.22			
1.429	37222	27990	0.752	0.22			
1.538	19953	15050	0.754	0.11			
1.688	14231	12742	0.895	0.08			
1.805	486527	399135	0.820	2.91		1 Aroclor 1221	BA
2.014	26511	19260	0.727	0.15			
2.198	147609	123312	0.835	0.88			
2.408	256624	187397	0.730	1.53		1 Aroclor 1221	BA
2.485	5795649	5308193	0.916	35.05	$	2 Tetrachloro-m-xylene	BA
2.688	646514	524307	0.811	3.87		1 Aroclor 1221	BA
2.790	504173	469852	0.932	3.02		1 Aroclor 1221	BA
2.851	1535121	1329401	0.866	9.19		1 Aroclor 1221	BA
3.028	14392	13827	0.961	0.08			
3.054	34234	29132	0.851	0.20			
3.281	99970	77160	0.772	0.59			
3.324	358876	193551	0.539	2.15			
3.434	38238	30934	0.809	0.22			
3.512	136128	99422	0.730	0.81			
3.609	17339	14690	0.847	0.10			
3.697	13322	11447	0.859	0.07			
3.731	38936	38276	0.983	0.23			
3.755	43575	34039	0.781	0.26			
3.827	295977	177026	0.598	1.77			
3.928	143070	123162	0.861	0.85			
3.994	95620	85957	0.899	0.57			
4.053	37489	30068	0.802	0.22			
4.139	10938	8681	0.794	0.06			
4.217	34568	31358	0.907	0.20			
4.261	30622	30968	1.011	0.18			
4.295	15813	16790	1.062	0.09			
4.311	19761	17760	0.899	0.11			
4.418	39356	39192	0.996	0.23			
4.452	41924	26811	0.640	0.25			
4.546	53650	47382	0.883	0.32			
4.618	16015	13390	0.836	0.09			
4.814	20231	20464	1.012	0.12			
4.848	32628	30088	0.922	0.19			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.882	54197	35366	0.653	0.32	
5.037	34130	28155	0.825	0.20	
5.098	9508	6248	0.657	0.05	
5.162	9686	9042	0.933	0.05	
5.210	9584	7142	0.745	0.05	
5.363	10025	8319	0.830	0.06	
5.410	12662	8090	0.639	0.07	
5.508	18295	11544	0.631	0.10	
6.445	10055	8111	0.807	0.06	
7.126	34224	16900	0.494	0.20	
7.690	11411	8513	0.746	0.06	
7.727	33374	27520	0.825	0.19	
7.778	14115	12695	0.899	0.08	
7.799	35903	25073	0.698	0.21	
8.276	48149	40286	0.837	0.28	
8.373	19835	14856	0.749	0.11	
8.571	4865651	4138474	0.851	29.15	$ 12 Decachlorobiphenyl
8.940	10764	10523	0.978	0.06	
9.470	26715	17347	0.649	0.16	
9.824	15910	17592	1.106	0.09	
9.836	14219	21674	1.524	0.08	
9.858	31236	29002	0.928	0.18	
9.870	20142	33253	1.651	0.12	
9.880	109758	36905	0.336	0.65	
9.959	39510	23688	0.600	0.23	
	16688878	14281200		100.000	

Total unknown % area = 15

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718004.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 27-MAR-2018 13:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 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: 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	5795649	0.05000	0.047		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	486527	0.50000	0.47	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	256624	0.50000	0.47	0.00- 20.00	52.75	BA
2.688	2.688	0.000	646513	0.50000	0.47	0.00- 20.00	132.88	BA
2.789	2.789	0.000	504172	0.50000	0.46	0.00- 20.00	103.63	BA
2.851	2.851	0.000	1535120	0.50000	0.47	0.00- 20.00	315.53	BA
Average of Peak Amounts =					0.46800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	4865650	0.05000	0.044			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

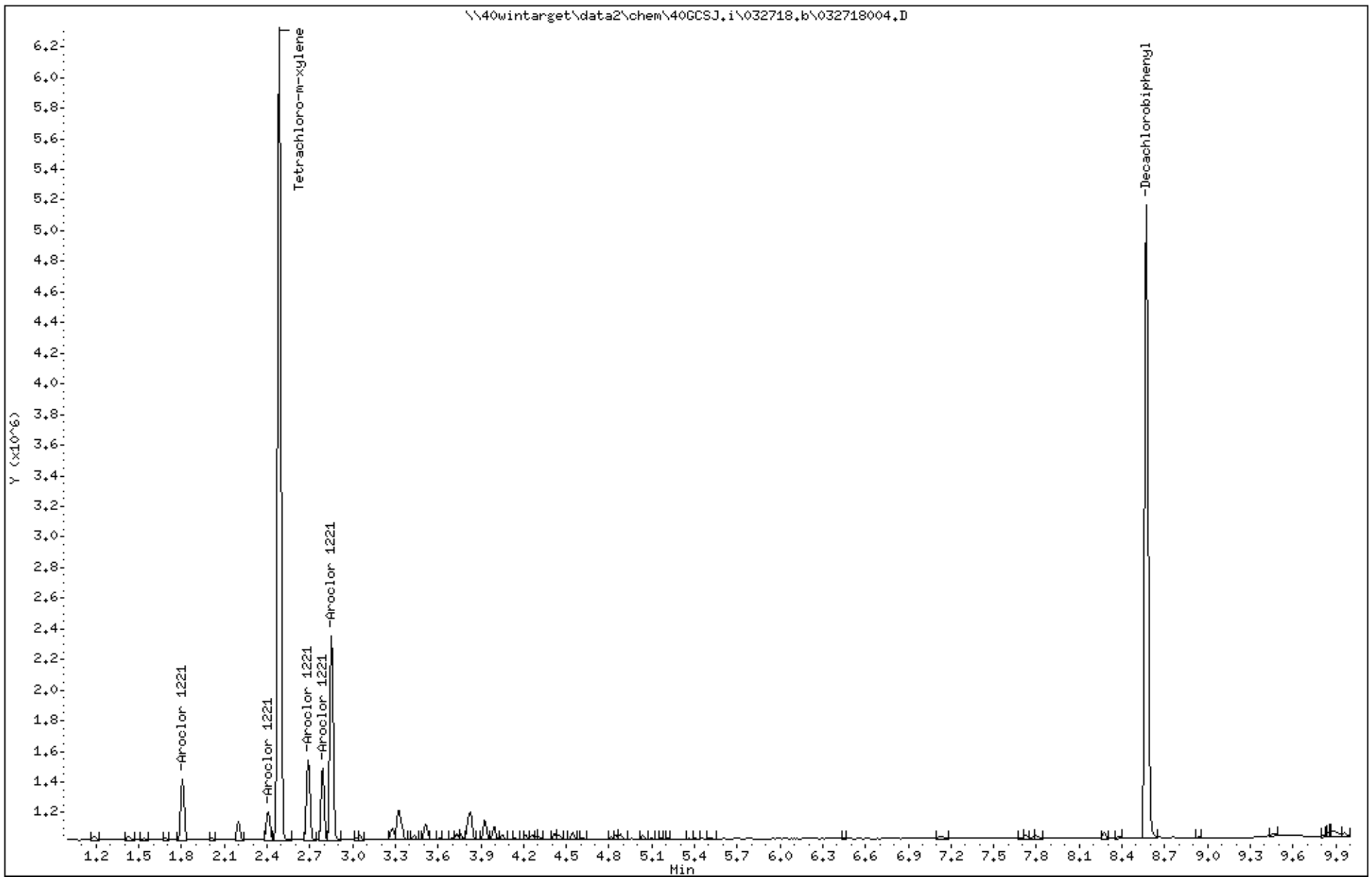
Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718004.D
Date : 27-MAR-2018 13:55
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

Instrument: 40GCSJ.i

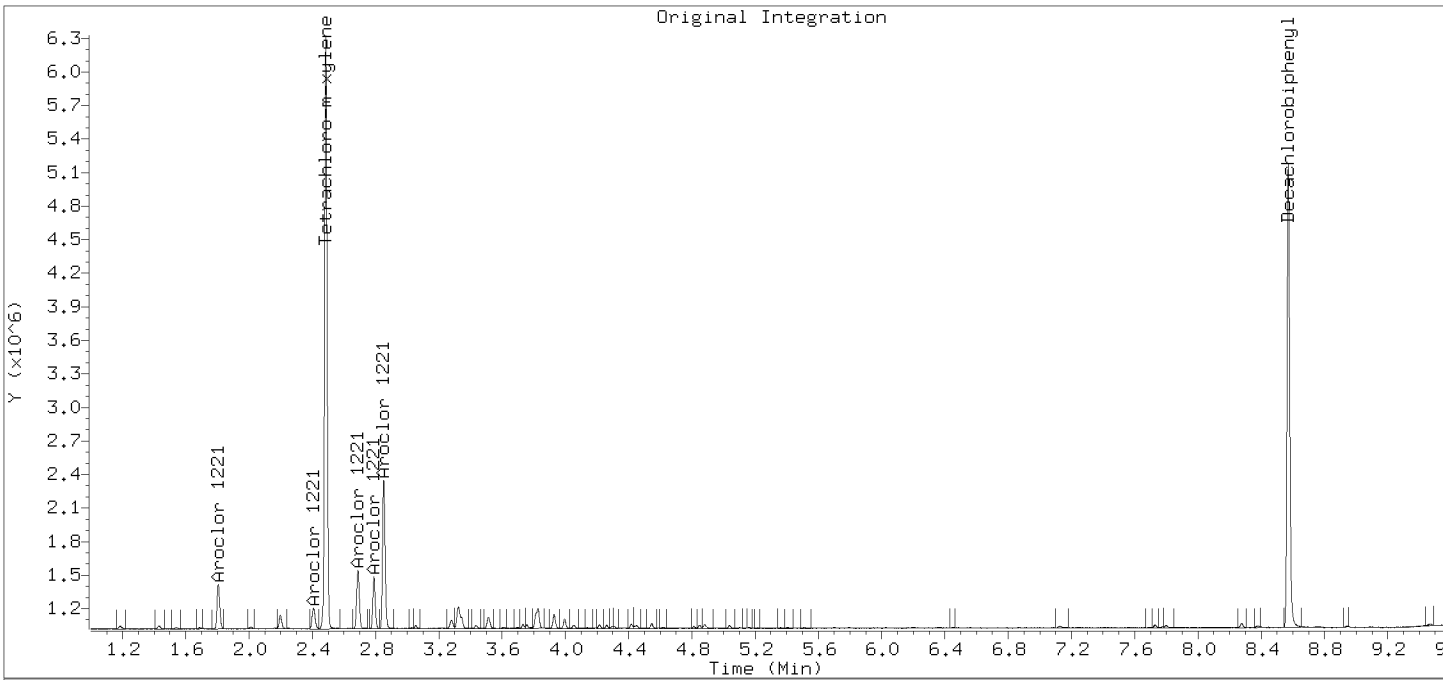
Operator: BLM

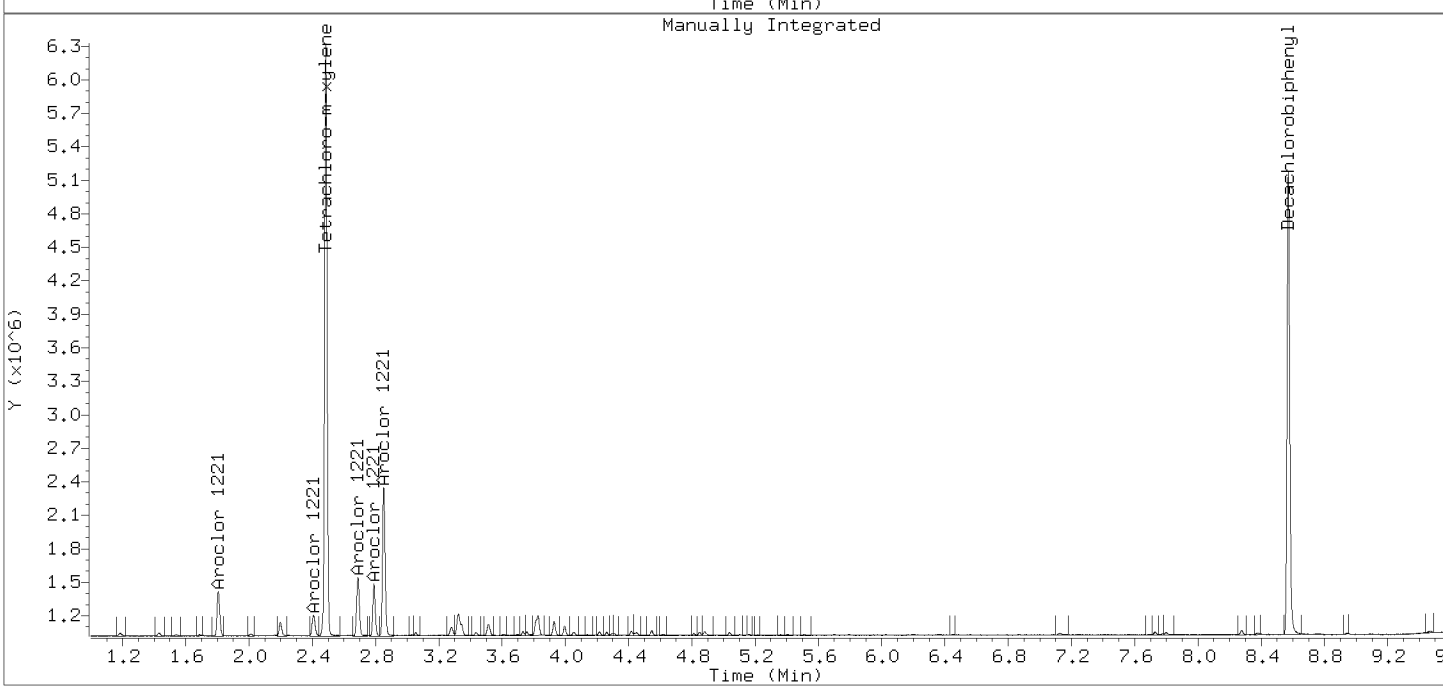
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718004.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 27-MAR-2018 13:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	481354	486527	BA
Aroclor 1221	481354	486527	BA
Aroclor 1221	481354	486527	BA
Aroclor 1221	481354	486527	BA
Aroclor 1221	481354	486527	BA
Tetrachloro-m-xylene	5789839	5795649	BA
Decachlorobiphenyl	4865650	4865650	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718016.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 27-MAR-2018 17:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 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: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	39105	30176	0.772	0.14		
1.428	38173	32149	0.842	0.13		
1.535	21682	15589	0.719	0.07		
1.684	17136	14756	0.861	0.06		
1.804	304577	266643	0.875	1.10		
2.009	21247	17258	0.812	0.07		
2.198	90843	79788	0.878	0.32		
2.407	197054	149443	0.758	0.71		
2.484	5988579	5772885	0.964	22.03	$ 2 Tetrachloro-m-xylene	
2.687	448038	369889	0.826	1.62		
2.789	413696	385522	0.932	1.49		
2.850	1340998	1195504	0.892	4.85	4 Aroclor 1232	BA
3.028	11309	13318	1.178	0.04		
3.055	90165	77171	0.856	0.32		
3.279	73381	55919	0.762	0.26		
3.318	773131	693411	0.897	2.79		
3.343	417734	389169	0.932	1.51		
3.434	128978	110624	0.858	0.46		
3.513	700329	500772	0.715	2.53	4 Aroclor 1232	BA
3.610	21509	19334	0.899	0.07		
3.646	18175	11073	0.609	0.06		
3.696	26464	23069	0.872	0.09		
3.732	182548	182583	1.000	0.66		
3.756	148695	121321	0.816	0.53		
3.827	2011685	1164318	0.579	7.28	4 Aroclor 1232	BA
3.929	860467	709621	0.825	3.11	4 Aroclor 1232	BA
3.994	574204	540725	0.942	2.07	4 Aroclor 1232	BA
4.059	154360	139927	0.906	0.55		
4.137	64296	54496	0.848	0.23		
4.214	412730	380742	0.922	1.49		
4.260	400782	377772	0.943	1.45		
4.292	176349	176238	0.999	0.63		
4.311	217269	197416	0.909	0.78		
4.368	24937	15928	0.639	0.09		
4.417	561301	527576	0.940	2.03		
4.451	449872	316310	0.703	1.62		
4.545	718807	659934	0.918	2.60		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.617	181681	159023	0.875	0.65	
4.727	39702	33208	0.836	0.14	
4.768	43113	38633	0.896	0.15	
4.813	322621	306576	0.950	1.16	
4.847	568276	529998	0.933	2.05	
4.878	732327	543216	0.742	2.65	
4.959	82587	60821	0.736	0.29	
5.037	610841	551641	0.903	2.21	
5.099	118402	88288	0.746	0.42	
5.162	136426	116900	0.857	0.49	
5.211	92966	85091	0.915	0.33	
5.309	31895	21763	0.682	0.11	
5.363	86968	69593	0.800	0.31	
5.406	141021	124101	0.880	0.51	
5.446	89645	76343	0.852	0.32	
5.508	237459	174428	0.735	0.85	
5.602	69981	61157	0.874	0.25	
5.668	13062	12850	0.984	0.04	
5.792	162781	122928	0.755	0.58	
5.888	28119	15573	0.554	0.10	
6.024	120550	106730	0.885	0.43	
6.055	36532	29932	0.819	0.13	
6.167	17704	13183	0.745	0.06	
6.297	39906	33693	0.844	0.14	
6.716	11608	11222	0.967	0.04	
7.006	25123	22636	0.901	0.09	
7.251	17390	11900	0.684	0.06	
7.725	25417	21327	0.839	0.09	
7.776	11233	10737	0.956	0.04	
7.799	20295	18785	0.926	0.07	
7.899	12249	8715	0.711	0.04	
8.275	48550	41454	0.854	0.17	
8.376	12303	12088	0.982	0.04	
8.570	5251116	4371355	0.832	19.00	$ 12 Decachlorobiphenyl
8.939	16566	10276	0.620	0.05	
9.081	13129	7526	0.573	0.04	
9.469	17705	11060	0.625	0.06	
	27627853	23723119		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718016.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 27-MAR-2018 17:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 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: 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	5988578	0.05000	0.048			
4 Aroclor 1232					CAS #: 1114-16-5			
2.850	2.851	-0.001	1340997	0.50000	0.54	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	700329	0.50000	0.52	0.00- 20.00	52.22	BA
3.826	3.827	-0.001	2011685	0.50000	0.54	0.00- 20.00	150.01	BA
3.928	3.929	-0.001	860466	0.50000	0.54	0.00- 20.00	64.17	BA
3.994	3.995	-0.001	574204	0.50000	0.52	0.00- 20.00	42.82	BA
Average of Peak Amounts =					0.53200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5251116	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\032718.b\032718016.D

Date : 27-MAR-2018 17:05

Client ID: 1232-CCV

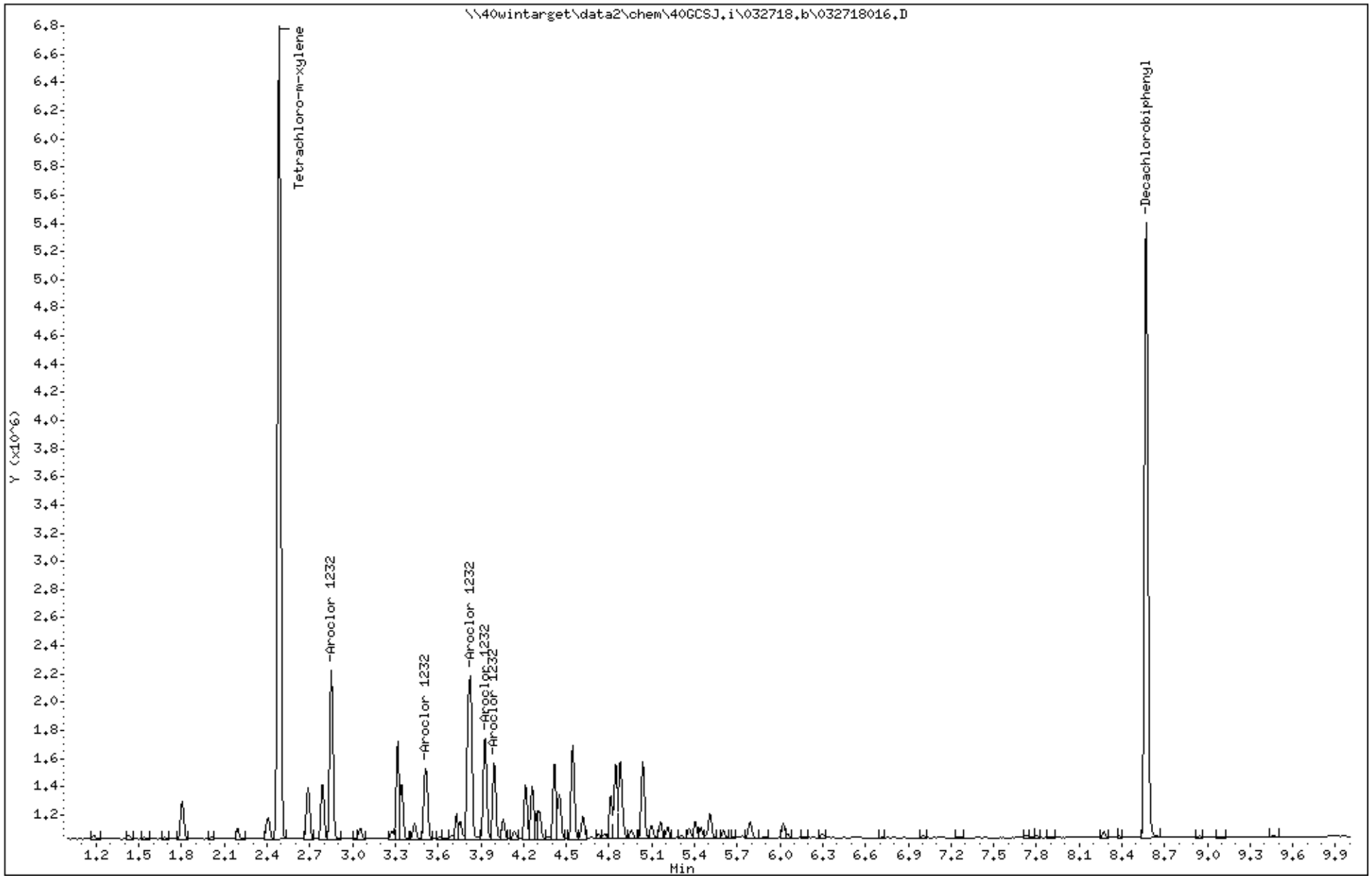
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

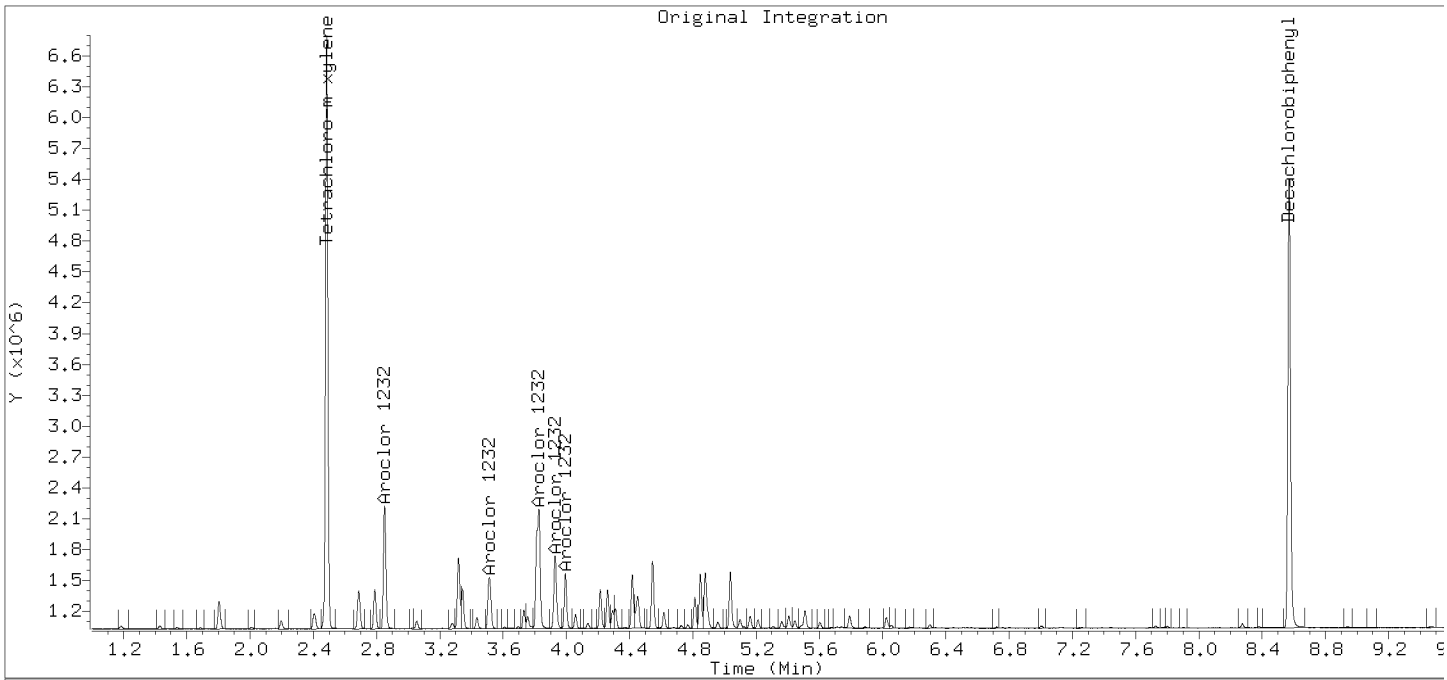
Operator: BLM

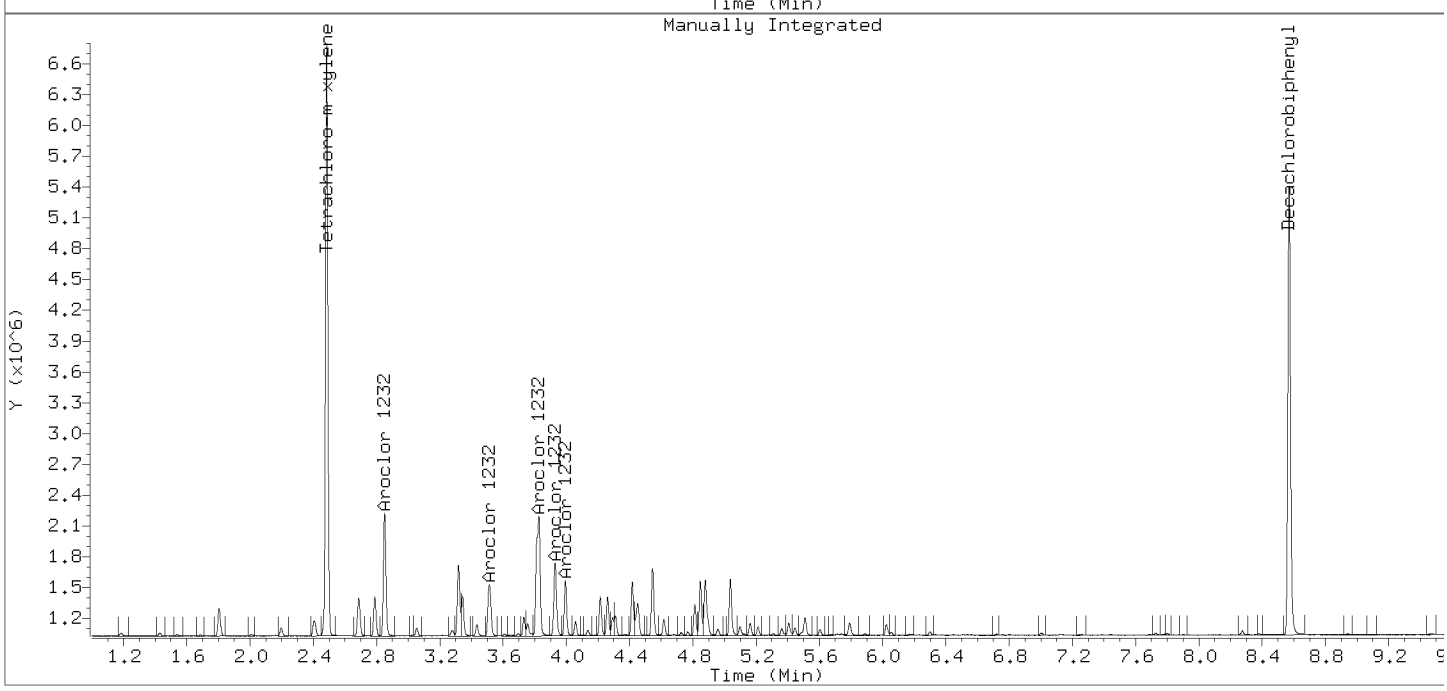
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718016.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 27-MAR-2018 17:05 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1332273	1340997	BA
Aroclor 1232	1332273	1340997	BA
Aroclor 1232	1332273	1340997	BA
Aroclor 1232	1332273	1340997	BA
Aroclor 1232	1332273	1340997	BA
Tetrachloro-m-xylene	5988578	5988578	
Decachlorobiphenyl	5251116	5251116	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 30-MAR-2018 15:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 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
1.184	28611	24110	0.843	0.10		
1.432	38050	29406	0.773	0.14		
1.537	16847	14036	0.833	0.06		
1.686	18795	16246	0.864	0.07		
1.806	293863	246585	0.839	1.11		
2.011	20417	15641	0.766	0.07		
2.198	82173	72036	0.877	0.31		
2.406	195034	143989	0.738	0.73		
2.485	5786443	5418296	0.936	22.29	$ 2 Tetrachloro-m-xylene	
2.688	423326	346437	0.818	1.60		
2.789	394101	358789	0.910	1.49		
2.851	1269350	1141797	0.900	4.80	4 Aroclor 1232	BA
3.029	11732	14025	1.195	0.04		
3.054	90724	73974	0.815	0.34		
3.281	66768	49387	0.740	0.25		
3.318	736732	655403	0.890	2.79		
3.344	402334	361823	0.899	1.52		
3.433	113342	103719	0.915	0.42		
3.513	669053	481887	0.720	2.53	4 Aroclor 1232	BA
3.609	20062	17884	0.891	0.07		
3.698	24610	20932	0.851	0.09		
3.732	176560	173194	0.981	0.66		
3.756	126992	114145	0.899	0.48		
3.826	1865355	1089801	0.584	7.06	4 Aroclor 1232	BA
3.930	797462	669657	0.840	3.02	4 Aroclor 1232	BA
3.995	527323	498762	0.946	1.99	4 Aroclor 1232	BA
4.059	153252	131901	0.861	0.58		
4.137	59676	53239	0.892	0.22		
4.215	394581	370771	0.940	1.49		
4.261	383584	358821	0.935	1.45		
4.293	168081	172238	1.025	0.63		
4.310	197644	184817	0.935	0.74		
4.417	533725	493147	0.924	2.02		
4.452	414687	311008	0.750	1.57		
4.547	676915	620446	0.917	2.56		
4.618	163928	152581	0.931	0.62		
4.677	16561	13343	0.806	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.727	33649	30922	0.919	0.12	
4.768	37020	33477	0.904	0.14	
4.813	297483	283159	0.952	1.12	
4.848	519297	483260	0.931	1.96	
4.879	679028	512647	0.755	2.57	
4.958	74870	56417	0.754	0.28	
5.037	551301	496890	0.901	2.08	
5.098	114768	86161	0.751	0.43	
5.163	127977	114468	0.894	0.48	
5.212	90559	78383	0.866	0.34	
5.308	25509	19884	0.780	0.09	
5.363	78766	67279	0.854	0.29	
5.407	138700	114980	0.829	0.52	
5.446	84273	70209	0.833	0.31	
5.510	220958	164243	0.743	0.83	
5.605	67711	57426	0.848	0.25	
5.672	13331	11647	0.874	0.05	
5.791	146328	110676	0.756	0.55	
5.884	18310	13481	0.736	0.06	
6.025	106645	95460	0.895	0.40	
6.056	33501	27285	0.814	0.12	
6.170	14328	11980	0.836	0.05	
6.299	39749	32967	0.829	0.15	
6.509	12262	11270	0.919	0.04	
6.719	16301	13619	0.835	0.06	
7.003	30494	20946	0.687	0.11	
7.124	27056	15787	0.583	0.10	
7.251	15684	11663	0.744	0.05	
7.438	9492	7819	0.824	0.03	
7.692	13467	9906	0.736	0.05	
7.726	30600	26257	0.858	0.11	
7.768	16249	11313	0.696	0.06	
7.799	27557	22489	0.816	0.10	
8.277	47916	40368	0.842	0.18	
8.378	21581	16221	0.752	0.08	
8.571	5107752	4316134	0.845	19.35	$ 12 Decachlorobiphenyl
8.938	10862	9594	0.883	0.04	
9.410	9812	13044	1.329	0.03	
9.426	12356	16262	1.316	0.04	
9.465	69759	22340	0.320	0.26	
9.854	13935	10507	0.754	0.05	
9.867	13247	9964	0.752	0.05	
9.957	13957	11464	0.821	0.05	
	26393094	22604541		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 30-MAR-2018 15:47
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 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	5786442	0.05000	0.047			
4 Aroclor 1232						CAS #: 1114-16-5		
2.851	2.851	0.000	1269349	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	669052	0.50000	0.50	0.00- 20.00	52.71	BA
3.826	3.827	-0.001	1865355	0.50000	0.50	0.00- 20.00	146.95	BA
3.929	3.929	0.000	797462	0.50000	0.50	0.00- 20.00	62.82	BA
3.994	3.995	-0.001	527322	0.50000	0.48	0.00- 20.00	41.54	BA
Average of Peak Amounts =					0.49800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5107751	0.05000	0.047			

QC Flag Legend

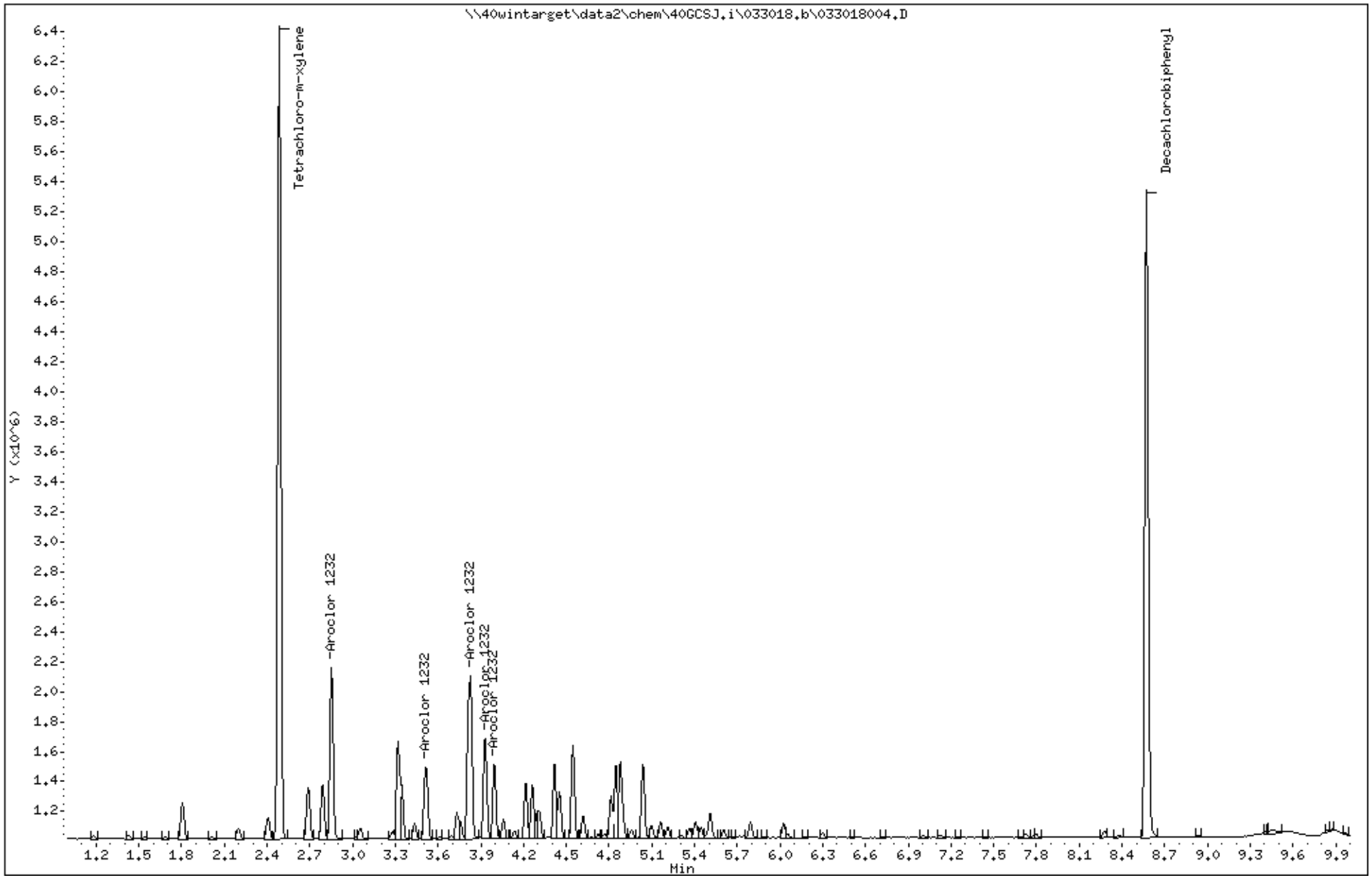
M - Compound response manually integrated.

Review Codes Legend

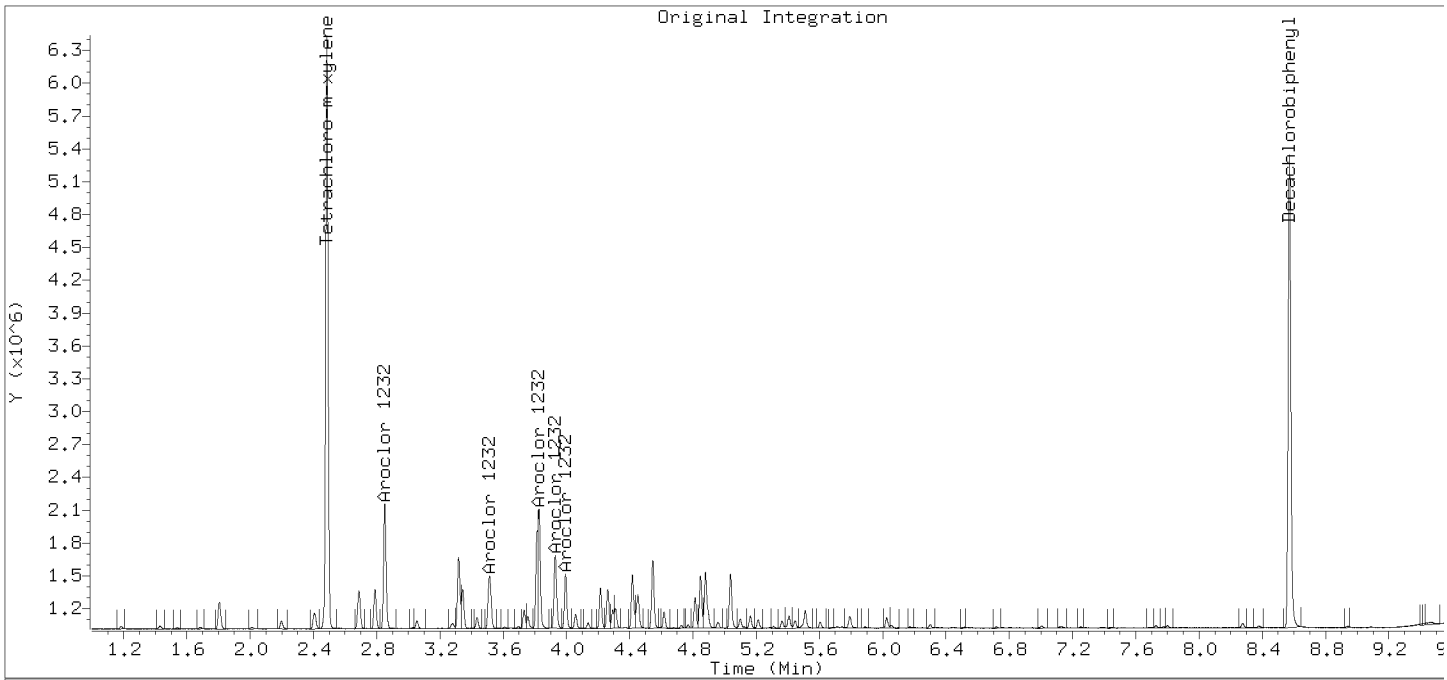
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

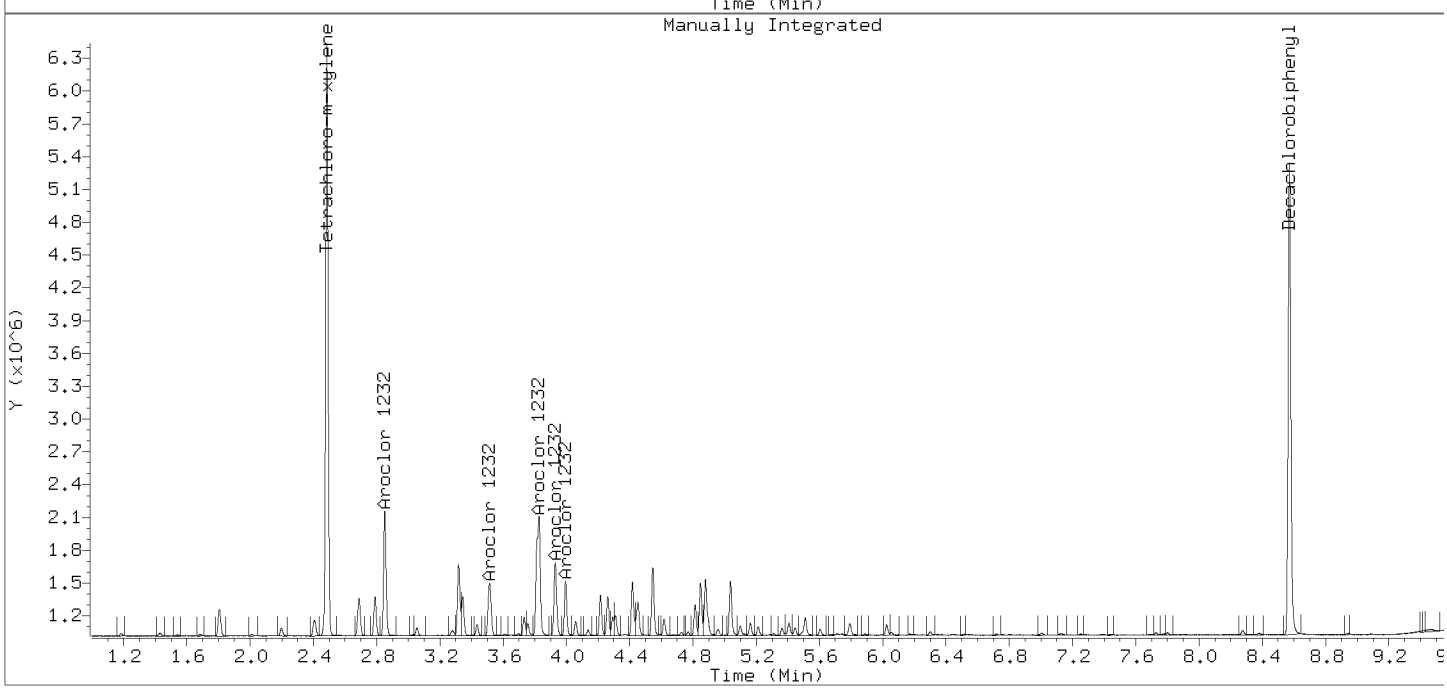
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018004.D
Date : 30-MAR-2018 15:47
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018004.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 30-MAR-2018 15:47 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Aroclor 1232	1259674	1269349	BA
Tetrachloro-m-xylene	5786442	5786442	
Decachlorobiphenyl	5107751	5107751	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 30-MAR-2018 18:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	22405	18532	0.827	0.05		
1.431	40276	30743	0.763	0.10		
1.539	21364	14547	0.681	0.05		
1.688	39933	33591	0.841	0.10		
1.806	15485	14673	0.948	0.03		
2.405	121508	92266	0.759	0.30		
2.485	6015047	5620296	0.934	15.57	$ 2 Tetrachloro-m-xylene	
2.686	179100	142673	0.797	0.45		
2.788	272860	250720	0.919	0.68		
2.851	954082	877697	0.920	2.40		
3.054	143309	127113	0.887	0.36		
3.278	26506	18895	0.713	0.06		
3.318	1295039	1187612	0.917	3.27	3 Aroclor 1242	BA
3.344	747922	694661	0.929	1.88		
3.435	208397	185067	0.888	0.52		
3.512	1286692	915338	0.711	3.25	3 Aroclor 1242	BA
3.610	24609	19552	0.795	0.06		
3.651	23747	16018	0.675	0.05		
3.697	36677	35434	0.966	0.09		
3.731	326714	316997	0.970	0.82		
3.756	224700	206128	0.917	0.56		
3.826	3677233	2126529	0.578	9.28	3 Aroclor 1242	BA
3.929	1578983	1297420	0.822	3.98	3 Aroclor 1242	BA
3.994	1048461	998756	0.953	2.64	3 Aroclor 1242	BA
4.058	319715	283616	0.887	0.80		
4.137	129269	107709	0.833	0.32		
4.214	874601	807996	0.924	2.20		
4.260	836630	806365	0.964	2.11		
4.292	341738	359002	1.051	0.86		
4.310	446814	398295	0.891	1.12		
4.370	31927	21945	0.687	0.08		
4.416	1142103	1082234	0.948	2.88		
4.451	913690	659762	0.722	2.30		
4.545	1510362	1343728	0.890	3.81		
4.617	346342	309594	0.894	0.87		
4.680	28187	21496	0.763	0.07		
4.725	76119	62203	0.817	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	83108	78177	0.941	0.20	
4.812	699910	670567	0.958	1.76	
4.847	1202699	1133950	0.943	3.03	
4.878	1544124	1135518	0.735	3.90	
4.957	178912	133914	0.748	0.45	
5.037	1280421	1148948	0.897	3.23	
5.098	277704	209878	0.756	0.70	
5.161	321799	274805	0.854	0.81	
5.212	247007	219787	0.890	0.62	
5.284	20360	19125	0.939	0.05	
5.306	56120	46311	0.825	0.14	
5.362	209417	177043	0.845	0.52	
5.405	350926	280474	0.799	0.88	
5.444	220385	194602	0.883	0.55	
5.509	566724	432643	0.763	1.43	
5.603	171864	143328	0.834	0.43	
5.671	16234	12840	0.791	0.04	
5.714	36570	29147	0.797	0.09	
5.740	47521	42277	0.890	0.12	
5.760	14752	20251	1.373	0.03	
5.792	396864	315002	0.794	1.00	
5.888	62266	38258	0.614	0.15	
6.023	379459	274459	0.723	0.95	
6.168	37049	22222	0.600	0.09	
6.225	31667	17003	0.537	0.07	
6.298	108595	93635	0.862	0.27	
6.332	23600	21579	0.914	0.05	
6.372	18762	14987	0.799	0.04	
6.533	46511	33158	0.713	0.11	
6.799	24472	18645	0.762	0.06	
7.250	11396	10214	0.896	0.02	
7.726	29012	23418	0.807	0.07	
7.796	24839	18196	0.733	0.06	
8.274	54802	45908	0.838	0.13	
8.570	5404034	4589082	0.849	13.65	$ 12 Decachlorobiphenyl
8.934	12372	9481	0.766	0.03	
9.463	21668	13742	0.634	0.05	
9.959	26183	16834	0.643	0.06	
	39588648	33484611		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 30-MAR-2018 18:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 04-Apr-2018 13:12 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	6015046	0.05000	0.049			
3 Aroclor 1242						CAS #: 53469-21-9		
3.318	3.318	0.000	1295038	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1286692	0.50000	0.51	0.00- 20.00	99.36	BA
3.825	3.827	-0.002	3677232	0.50000	0.52	0.00- 20.00	283.95	BA
3.928	3.929	-0.001	1578983	0.50000	0.52	0.00- 20.00	121.93	BA
3.994	3.995	-0.001	1048461	0.50000	0.51	0.00- 20.00	80.96	BA
Average of Peak Amounts =					0.51400			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5404034	0.05000	0.049			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018016.D

Date : 30-MAR-2018 18:57

Client ID: 1242-CCV

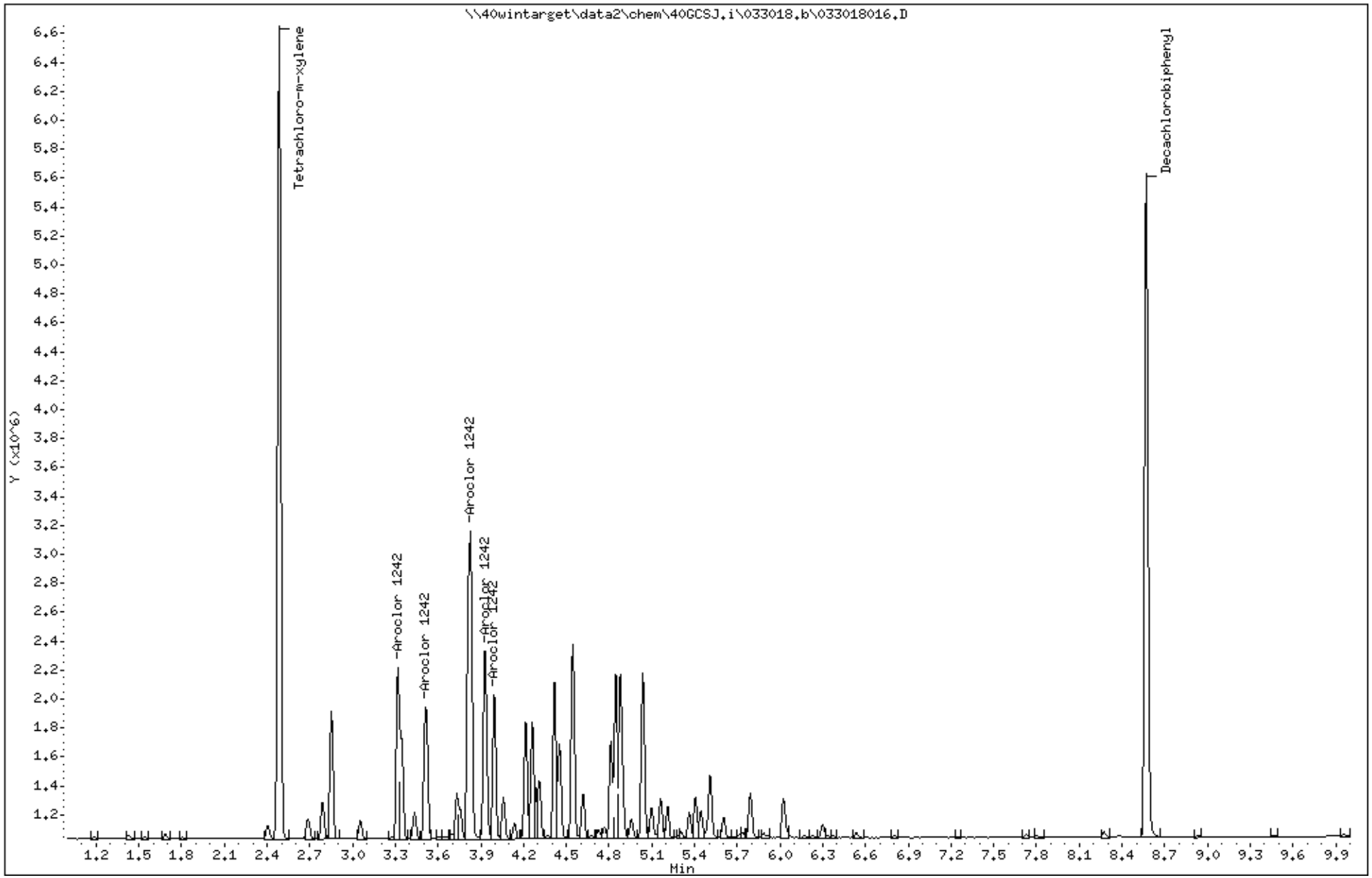
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

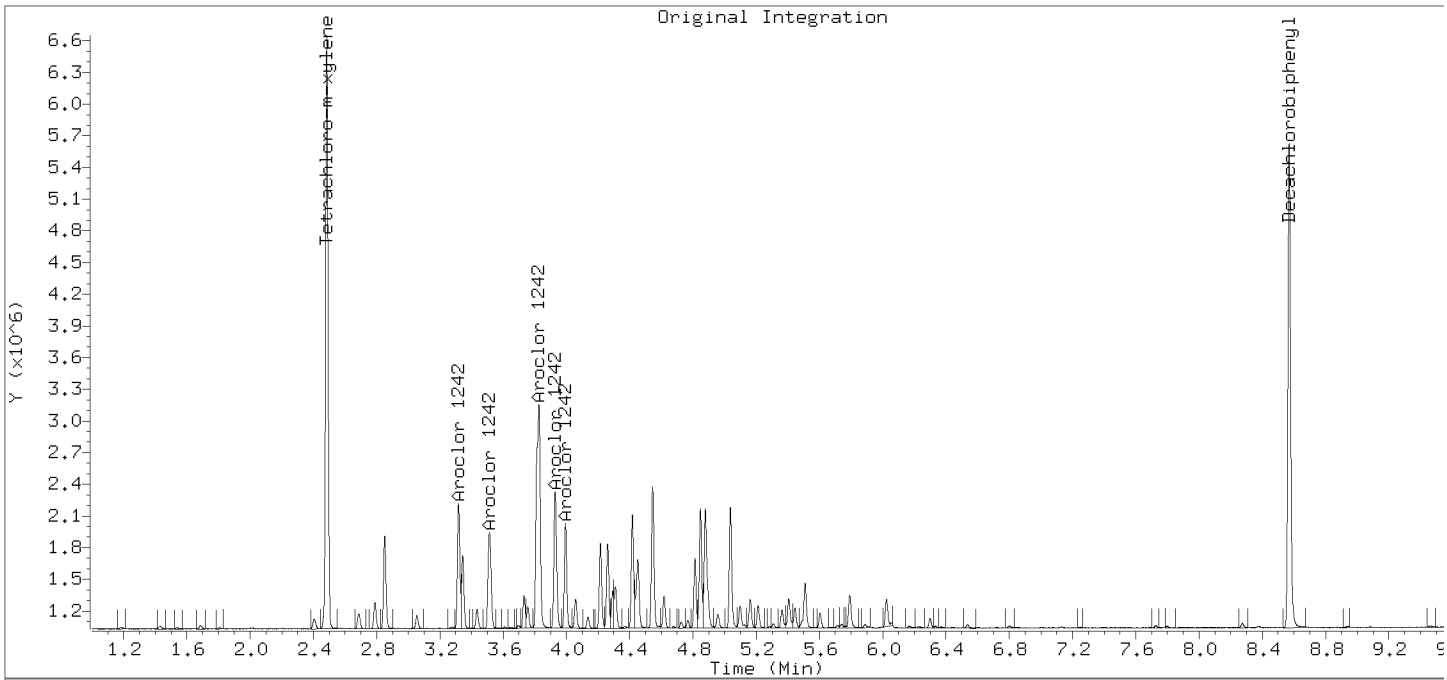
Operator: BLM

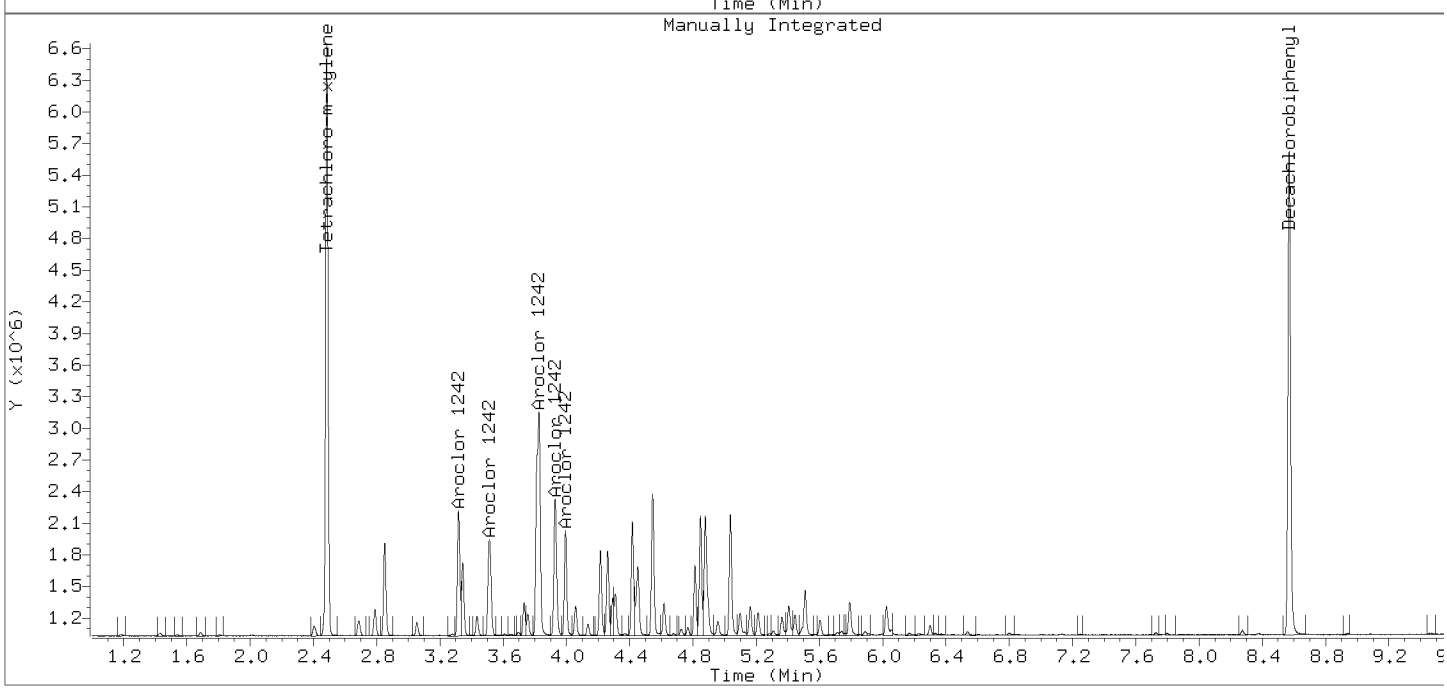
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 30-MAR-2018 18:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Aroclor 1242	1286633	1295038	BA
Tetrachloro-m-xylene	6015046	6015046	
Decachlorobiphenyl	5404034	5404034	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 30-MAR-2018 22:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

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

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

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 30-MAR-2018 22:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5996032	0.05000	0.049			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1200304	0.50000	0.51	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2096300	0.50000	0.50	0.00- 20.00	174.65	BA
4.812	4.812	0.000	1058114	0.50000	0.52	0.00- 20.00	88.15	BA
4.878	4.879	-0.001	2607369	0.50000	0.52	0.00- 20.00	217.23	BA
5.037	5.038	-0.001	1868361	0.50000	0.52	0.00- 20.00	155.66	BA
Average of Peak Amounts =					0.51400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5412400	0.05000	0.049			

QC Flag Legend

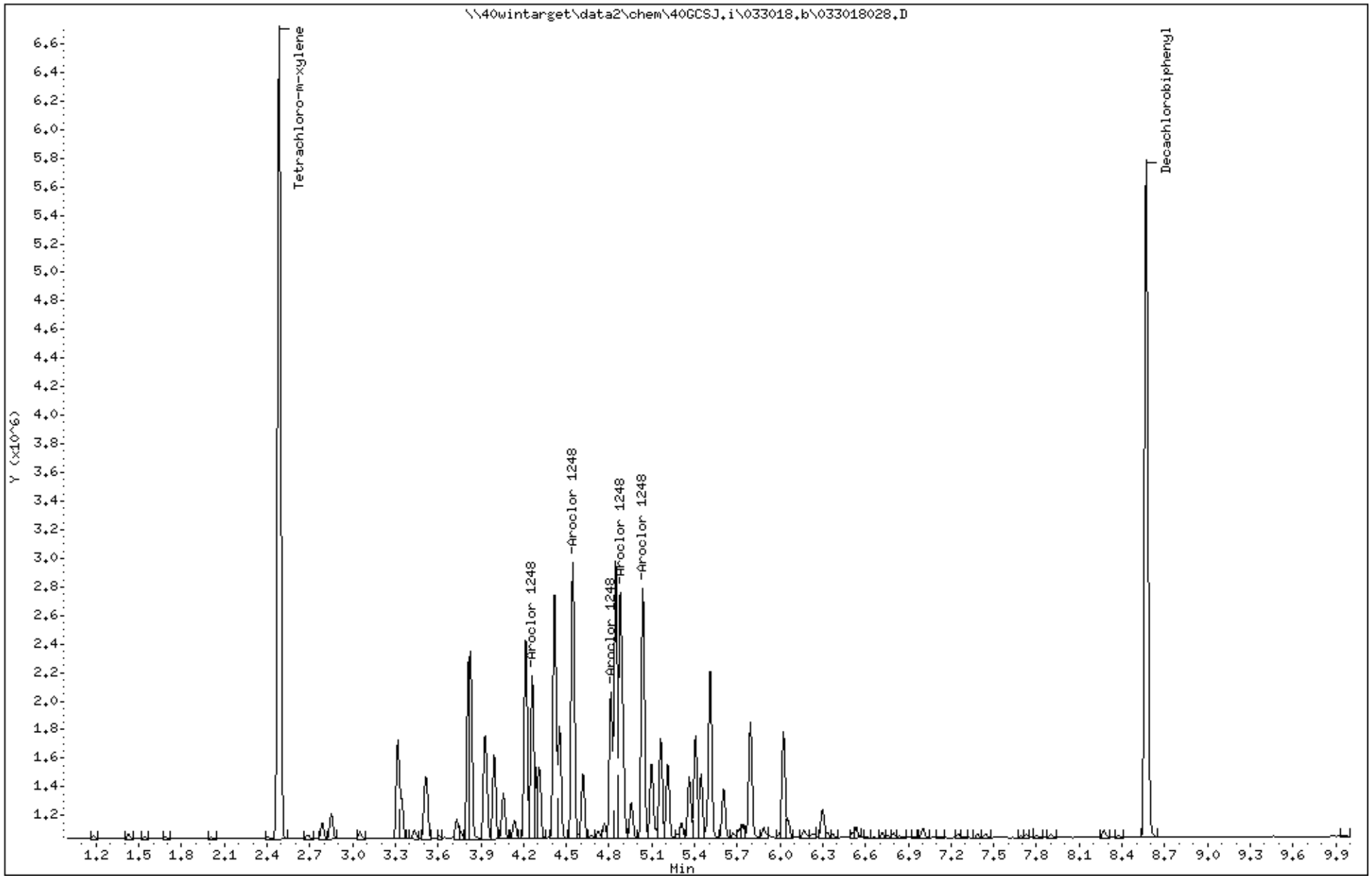
M - Compound response manually integrated.

Review Codes Legend

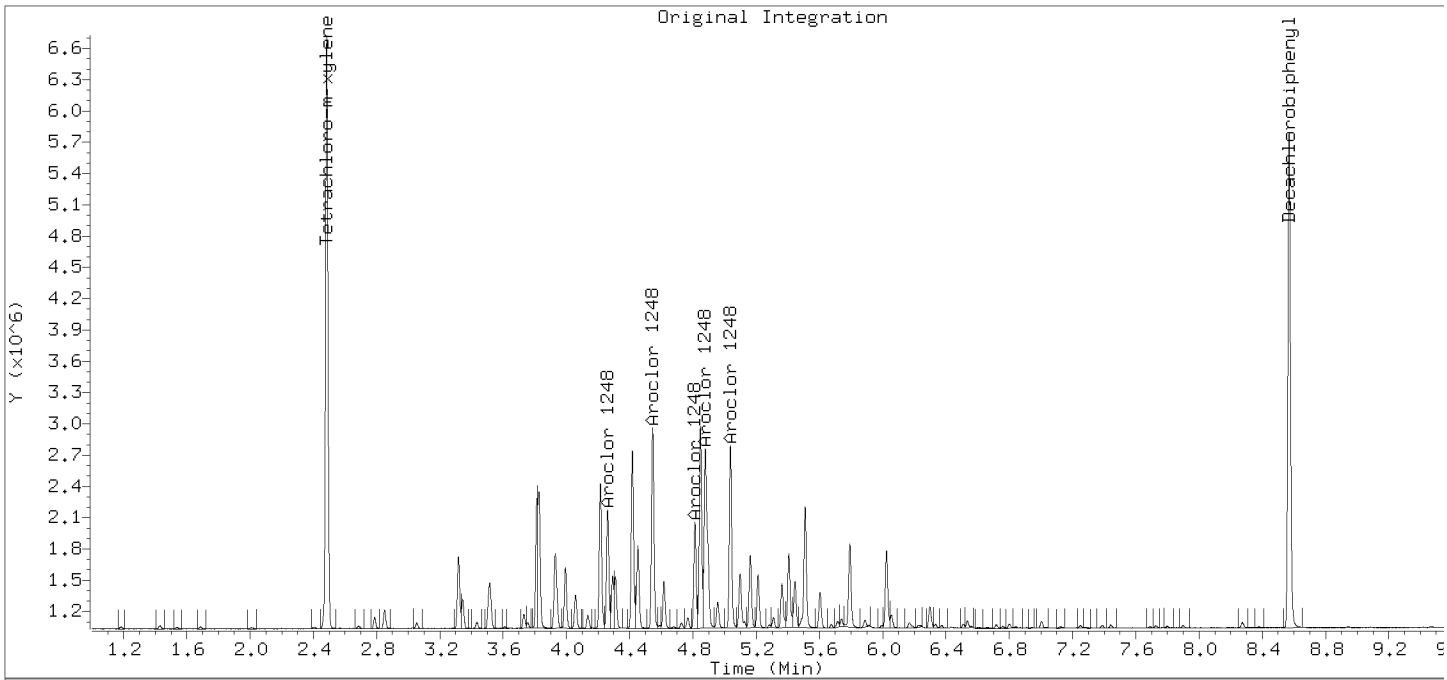
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

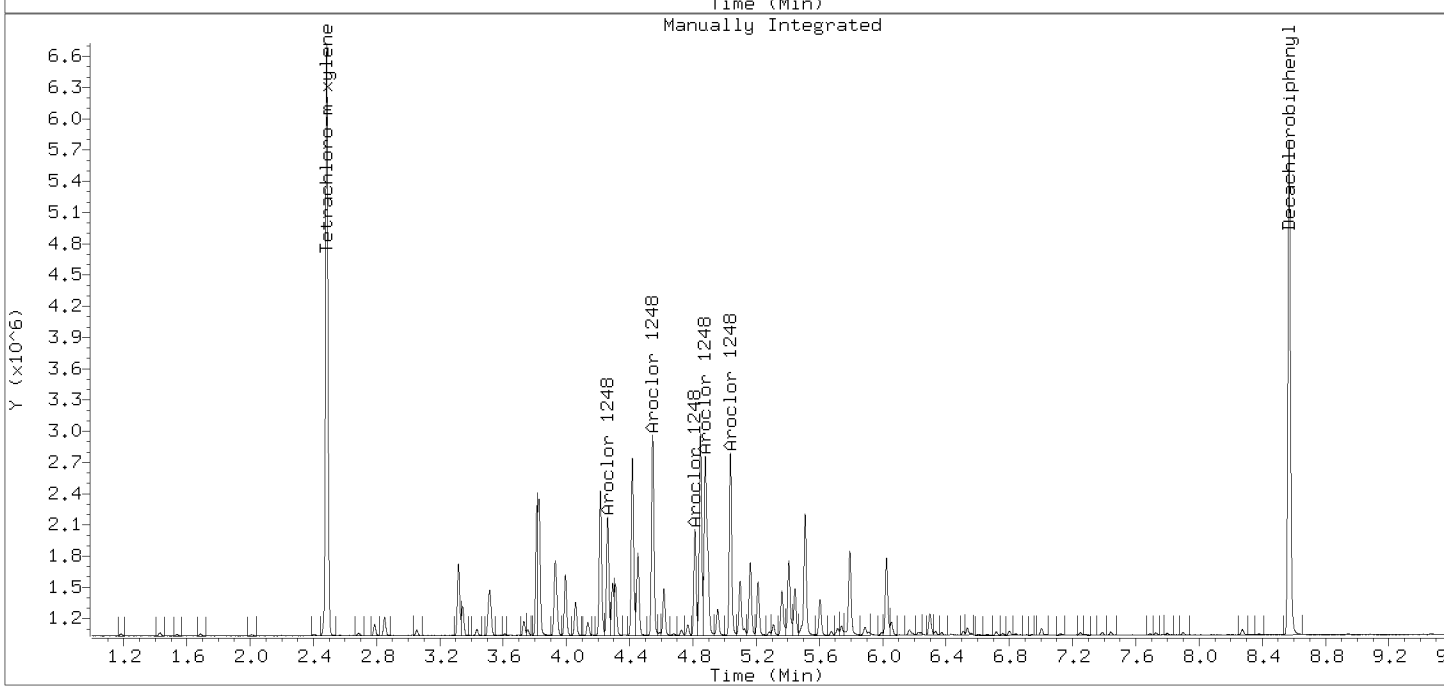
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018028.D
Date : 30-MAR-2018 22:08
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

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



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





Manually Integrated Compounds

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

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

Date Received:

Matrix: Tissue SDG No.: 40151613

Date Extracted: 03/15/2018 07:20

Lab Sample ID: 1659195

Date Analyzed: 03/16/2018 14:57

Lab File ID: 031618.B\031618006.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\031618.b\031618006.D
Lab Smp Id: 1659195 Client Smp ID: MB
Inj Date : 16-MAR-2018 14:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659195,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 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
1.183	24747	19000	0.768	0.11		
1.433	15540	11194	0.720	0.07		
1.538	10804	8510	0.788	0.05		
2.007	15551	13536	0.870	0.07		
2.484	10282663	10116364	0.984	49.68	$ 2 Tetrachloro-m-xylene	
2.784	21892	15712	0.718	0.10		
2.860	28633	19648	0.686	0.13		
3.995	14184	8933	0.630	0.06		
4.048	10494	10545	1.005	0.05		
5.349	10349	8091	0.782	0.04		
7.121	14440	13249	0.918	0.06		
7.686	10250	9234	0.901	0.04		
7.727	50976	40199	0.789	0.24		
7.771	12989	11115	0.856	0.06		
7.799	32578	28654	0.880	0.15		
8.273	82563	75660	0.916	0.39		
8.374	27968	17275	0.618	0.13		
8.570	10007356	8859274	0.885	48.24	$ 12 Decachlorobiphenyl	
8.936	24471	15141	0.619	0.11		
9.459	16995	14586	0.858	0.08		
9.961	29217	18868	0.646	0.14		
	20744662	19334788		100.000		

Total unknown % area = 2.1

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618006.D
Lab Smp Id: 1659195 Client Smp ID: MB
Inj Date : 16-MAR-2018 14:57
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659195,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6 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	10282663	0.08340	42			
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	10007355	0.09134	46			

Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618006.D

Date : 16-MAR-2018 14:57

Client ID: MB

Instrument: 40GCSJ.i

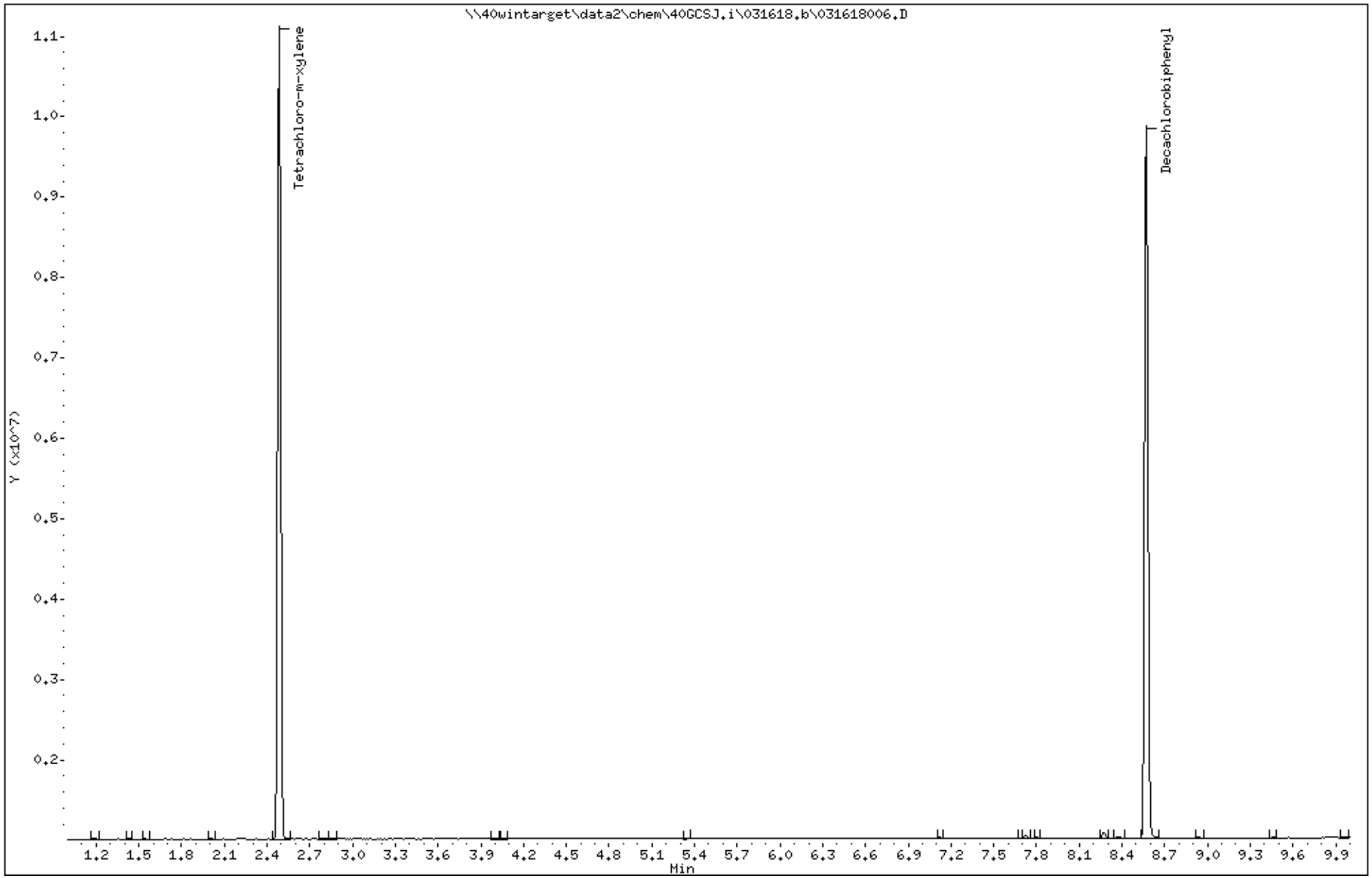
Sample Info: 1659195,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 16-MAR-2018 14:57 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1659195

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	10282663	10282663	
Decachlorobiphenyl	10007355	10007355	

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

Date Received:

Matrix: Tissue SDG No.: 40151613

Date Extracted: 03/15/2018 07:20

Lab Sample ID: 1659196

Date Analyzed: 03/16/2018 15:13

Lab File ID: 031618.B\031618007.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\031618.b\031618007.D
Lab Smp Id: 1659196 Client Smp ID: MBLCS
Inj Date : 16-MAR-2018 15:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659196,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 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
1.180	16481	11085	0.673	0.03		
1.805	14455	13359	0.924	0.03		
2.405	117518	93572	0.796	0.24		
2.485	10287046	10089337	0.981	21.86	$ 2 Tetrachloro-m-xylene	
2.686	179974	150477	0.836	0.38		
2.788	223152	207444	0.930	0.47		
2.850	984919	912344	0.926	2.09		
2.920	13276	9727	0.733	0.02		
3.055	125908	118253	0.939	0.26		
3.280	22762	17916	0.787	0.04		
3.318	1258246	1187347	0.944	2.67	3 Aroclor 1242	BA
3.344	710717	664896	0.936	1.51		
3.435	198275	181775	0.917	0.42		
3.513	1226604	893239	0.728	2.60	3 Aroclor 1242	BA
3.695	32491	34358	1.057	0.06		
3.732	325882	321581	0.987	0.69		
3.756	204099	202431	0.992	0.43		
3.826	3540364	2115350	0.597	7.52	3 Aroclor 1242	BA
3.929	1521602	1300015	0.854	3.23	3 Aroclor 1242	BA
3.994	996371	975408	0.979	2.11	3 Aroclor 1242	BA
4.059	277105	253841	0.916	0.58		
4.136	109784	100283	0.913	0.23		
4.215	838089	795043	0.949	1.78		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	790545	757640	0.958	1.68	
4.292	324568	336556	1.037	0.68	
4.309	394531	371147	0.941	0.83	
4.372	24620	19857	0.807	0.05	
4.417	1115318	1048440	0.940	2.37	
4.451	832691	616854	0.741	1.76	
4.545	1384875	1263615	0.912	2.94	
4.617	317893	292661	0.921	0.67	
4.679	22182	19773	0.891	0.04	
4.727	68137	60159	0.883	0.14	
4.769	75589	69292	0.917	0.16	
4.813	644138	616728	0.957	1.36	
4.847	1146801	1106837	0.965	2.43	
4.877	1442056	1089850	0.756	3.06	
4.958	150009	121599	0.811	0.31	
5.037	1192249	1098500	0.921	2.53	
5.098	243496	188430	0.774	0.51	
5.162	286109	251793	0.880	0.60	
5.212	204351	186000	0.910	0.43	
5.284	13715	15875	1.158	0.02	
5.309	47467	41204	0.868	0.10	
5.363	189447	153610	0.811	0.40	
5.407	301585	257205	0.853	0.64	
5.446	182292	165000	0.905	0.38	
5.510	493815	378604	0.767	1.04	
5.604	143492	129045	0.899	0.30	
5.672	15809	13712	0.867	0.03	
5.718	29154	23416	0.803	0.06	
5.741	36656	33167	0.905	0.07	
5.791	316952	263561	0.832	0.67	
5.888	40905	30509	0.746	0.08	
6.025	304838	224997	0.738	0.64	
6.171	24667	17639	0.715	0.05	
6.228	20623	13976	0.678	0.04	
6.301	69018	60138	0.871	0.14	
6.333	16388	12721	0.776	0.03	
6.513	13776	13171	0.956	0.02	
6.535	28752	19673	0.684	0.06	
6.719	11752	11392	0.969	0.02	
6.801	10529	10480	0.995	0.02	
7.006	20328	20109	0.989	0.04	
7.246	12526	10183	0.813	0.02	
7.439	10786	10550	0.978	0.02	
7.689	15727	12476	0.793	0.03	
7.726	55253	41817	0.757	0.11	
7.803	40847	30798	0.754	0.08	
8.274	92563	78547	0.849	0.19	
8.374	21206	13151	0.620	0.04	
8.570	10562445	9222311	0.873	22.83	$ 12 Decachlorobiphenyl
8.934	9408	7905	0.840	0.01	
9.463	10288	9191	0.893	0.02	
	47048281	41510945		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618007.D
Lab Smp Id: 1659196 Client Smp ID: MBLCS
Inj Date : 16-MAR-2018 15:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659196,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 7 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	10287045	0.08343	42			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1258246	0.49670	250	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1226603	0.48674	240	0.00- 20.00	97.49	BA
3.826	3.827	-0.001	3540364	0.49749	250	0.00- 20.00	281.37	BA
3.928	3.929	-0.001	1521601	0.50027	250	0.00- 20.00	120.93	BA
3.994	3.995	-0.001	996371	0.48657	240	0.00- 20.00	79.19	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

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	10562445	0.09641	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\031618.b\031618007.D

Date : 16-MAR-2018 15:13

Client ID: MBLCS

Instrument: 40GCSJ.i

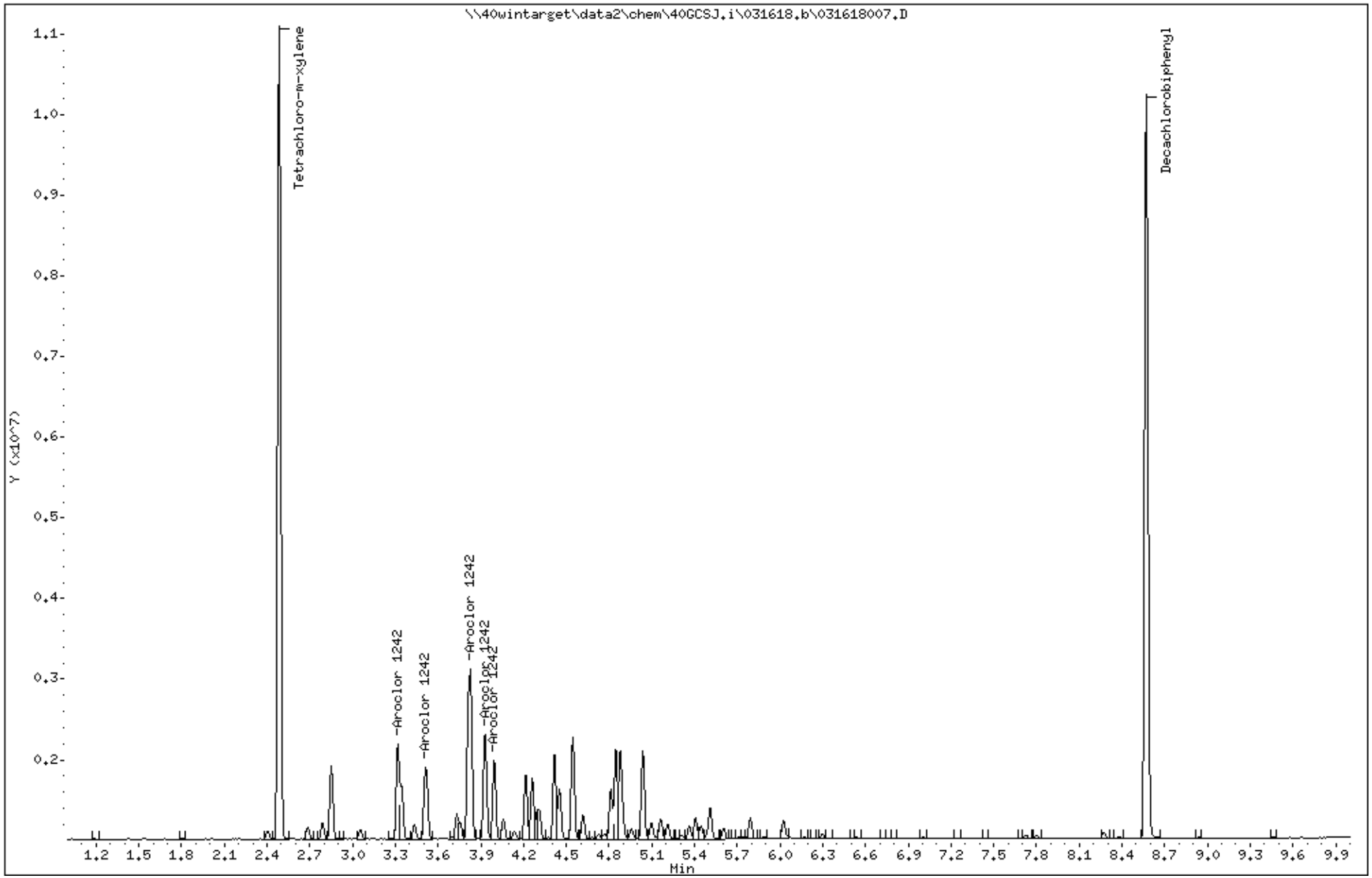
Sample Info: 1659196,

Volume Injected (uL): 1.0

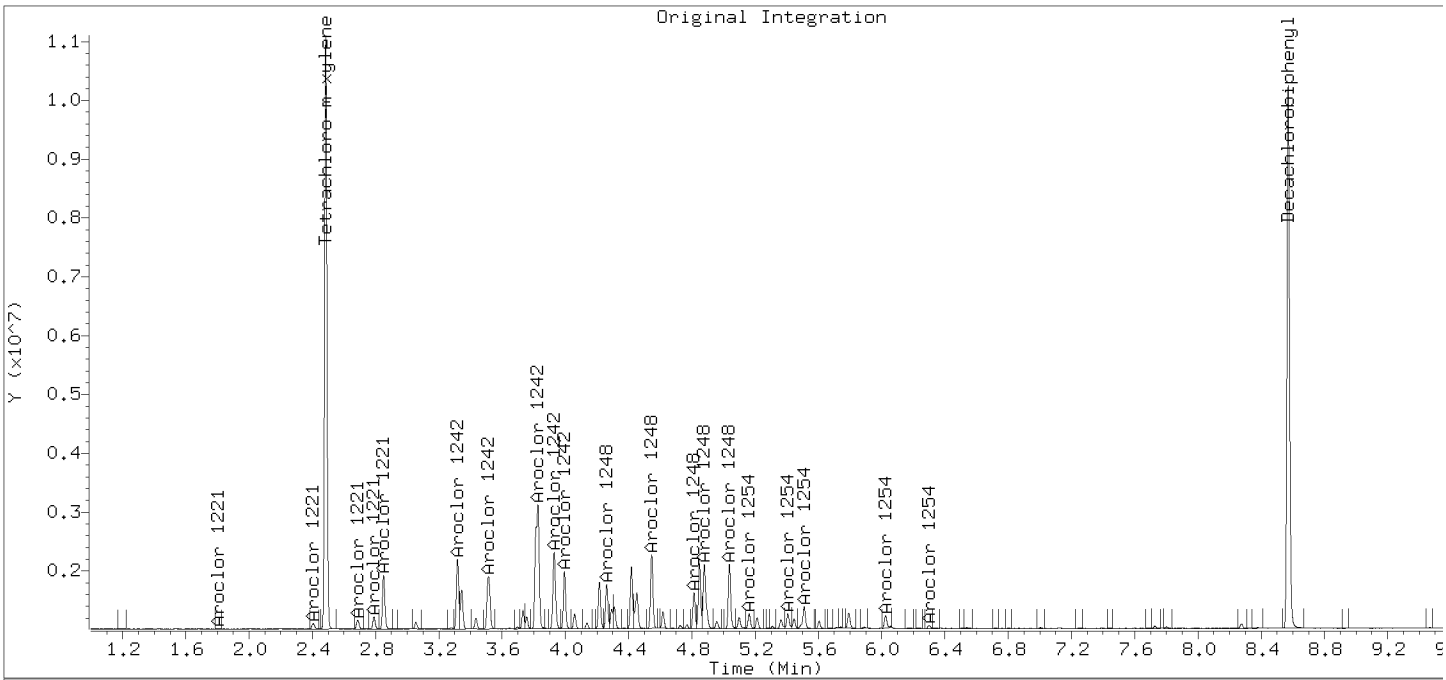
Operator: BLM

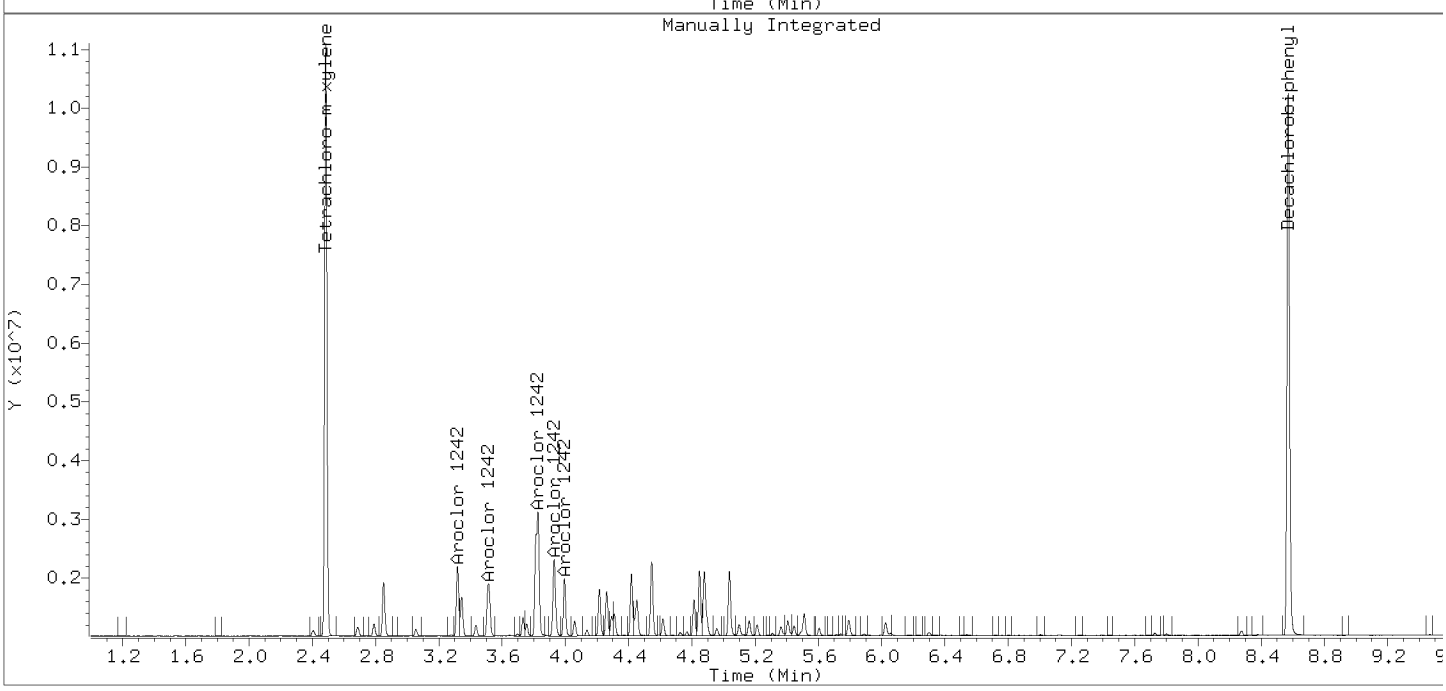
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 16-MAR-2018 15:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1659196





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1252850	0	
Aroclor 1016	1252850	0	
Aroclor 1016	1252850	0	
Aroclor 1016	1252850	0	
Aroclor 1016	1252850	0	
Aroclor 1221	14454	0	
Aroclor 1221	14454	0	
Aroclor 1221	14454	0	
Aroclor 1221	14454	0	
Aroclor 1221	14454	0	
Aroclor 1232	978429	0	
Aroclor 1232	978429	0	
Aroclor 1232	978429	0	
Aroclor 1232	978429	0	

Aroclor 1232	978429	0	
Aroclor 1242	1252850	1258246	BA
Aroclor 1242	1252850	1258246	BA
Aroclor 1242	1252850	1258246	BA
Aroclor 1242	1252850	1258246	BA
Aroclor 1242	1252850	1258246	BA
Aroclor 1248	782944	0	
Aroclor 1248	782944	0	
Aroclor 1248	782944	0	
Aroclor 1248	782944	0	
Aroclor 1248	782944	0	
Aroclor 1254	277494	0	
Aroclor 1254	277494	0	
Aroclor 1254	277494	0	
Aroclor 1254	277494	0	
Aroclor 1254	277494	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10287045	10287045	
Decachlorobiphenyl	10562445	10562445	

==========

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

Date Received: 06/14/2017 09:50

Matrix: Tissue SDG No.: 40151613

Date Extracted: 03/15/2018 07:20

Lab Sample ID: 1659200

Date Analyzed: 03/16/2018 19:42

Lab File ID: 031618.B\031618024.D

Initial wt/vol: 9.9907 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)	19.7	J
11097-69-1	PCB-1254 (Aroclor 1254)	17.8	J
11096-82-5	PCB-1260 (Aroclor 1260)	22.2	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618024.D
Lab Smp Id: 1659200 Client Smp ID: FD1-170613-01-LMB-1
Inj Date : 16-MAR-2018 19:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659200,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.991	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.155	22549	22060	0.978	0.07		
1.181	11538	9957	0.863	0.03		
1.536	12184	9834	0.807	0.04		
2.195	13928	7939	0.570	0.04		
2.408	40632	36606	0.901	0.13		
2.484	10147601	10023645	0.988	34.86	$ 2 Tetrachloro-m-xylene	
2.783	23401	17344	0.741	0.07		
2.858	25669	18815	0.733	0.08		
2.919	9414	9265	0.984	0.03		
2.974	55310	32777	0.593	0.18		
3.022	16485	12203	0.740	0.05		
3.337	9440	7372	0.781	0.03	5 Aroclor 1016	
3.397	13595	12529	0.922	0.04		
3.690	9330	8426	0.903	0.03		
3.825	73540	51346	0.698	0.24	5 Aroclor 1016	
3.990	20022	17052	0.852	0.06	5 Aroclor 1016	
4.054	22874	17526	0.766	0.07		
4.214	87423	75710	0.866	0.29		
4.260	79446	77155	0.971	0.26	6 Aroclor 1248	CO
4.292	64729	45656	0.705	0.21		
4.416	64159	56136	0.875	0.21		
4.451	38501	34251	0.890	0.13		
4.545	99528	89525	0.899	0.33	6 Aroclor 1248	CO

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.615	14762	13211	0.895	0.04	
4.736	18535	12550	0.677	0.06	
4.765	23278	22505	0.967	0.07	
4.812	115070	104013	0.904	0.38	6 Aroclor 1248
4.846	91439	87537	0.957	0.30	
4.878	268807	184148	0.685	0.90	6 Aroclor 1248
4.956	27636	23707	0.858	0.09	
5.036	105090	100994	0.961	0.35	6 Aroclor 1248
5.052	10778	21540	1.998	0.03	
5.099	99240	81225	0.818	0.33	
5.162	218150	199727	0.916	0.73	7 Aroclor 1254
5.211	189782	174707	0.921	0.64	
5.281	28018	22234	0.794	0.09	
5.311	117121	111165	0.949	0.39	
5.362	78588	59841	0.761	0.26	
5.405	129043	116646	0.904	0.43	7 Aroclor 1254
5.451	1033968	1018698	0.985	3.49	
5.508	220426	184015	0.835	0.74	7 Aroclor 1254
5.574	27098	17685	0.653	0.09	
5.603	39433	28952	0.734	0.13	
5.674	96784	81951	0.847	0.32	
5.710	51300	35554	0.693	0.17	
5.739	64659	51589	0.798	0.21	
5.789	507649	429290	0.846	1.71	
5.821	104325	81453	0.781	0.35	
5.896	73560	38516	0.524	0.24	
5.930	26466	23224	0.877	0.08	
5.993	127055	116893	0.920	0.42	
6.023	205069	181024	0.883	0.69	7 Aroclor 1254
6.055	500997	445091	0.888	1.69	
6.168	149396	98478	0.659	0.50	
6.231	44035	44467	1.010	0.14	
6.240	69461	54612	0.786	0.23	
6.297	657645	566106	0.861	2.22	8 Aroclor 1260
6.333	77182	68638	0.889	0.26	
6.372	42324	26049	0.615	0.14	
6.431	73232	45671	0.624	0.24	
6.509	269240	251918	0.936	0.91	
6.534	129104	121904	0.944	0.43	
6.559	91671	77555	0.846	0.31	
6.604	32394	27511	0.849	0.10	
6.658	31127	24380	0.783	0.10	
6.716	106436	85761	0.806	0.36	
6.757	95993	76805	0.800	0.32	
6.801	120067	109513	0.912	0.40	
6.840	46186	33101	0.717	0.15	
6.941	157753	146391	0.928	0.53	
7.004	341604	325820	0.954	1.15	8 Aroclor 1260
7.033	33453	32799	0.980	0.11	
7.102	27707	18342	0.662	0.09	
7.251	169332	143797	0.849	0.57	8 Aroclor 1260
7.280	72042	54773	0.760	0.24	
7.331	16648	12385	0.744	0.05	
7.388	118914	99774	0.839	0.40	
7.442	120715	104537	0.866	0.40	8 Aroclor 1260
7.485	25832	15298	0.592	0.08	
7.633	12084	8472	0.701	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.659	6400	6610	1.033	0.02	
7.690	40549	37233	0.918	0.13	
7.726	59840	44495	0.744	0.20	
7.763	32673	25634	0.785	0.11	
7.812	63254	42015	0.664	0.21	
7.865	15445	12262	0.794	0.05	
7.898	97025	77487	0.799	0.32	8 Aroclor 1260
7.952	48874	34408	0.704	0.16	
8.047	87159	70865	0.813	0.29	
8.274	104767	94218	0.899	0.35	
8.316	11751	10871	0.925	0.03	
8.375	45450	35702	0.786	0.15	
8.447	13408	12650	0.943	0.04	
8.478	15768	14638	0.928	0.05	
8.569	9743198	8673255	0.890	32.95	$ 12 Decachlorobiphenyl
8.642	19016	15640	0.822	0.06	
8.723	32666	21820	0.668	0.11	
8.938	14991	10429	0.696	0.05	
9.056	15237	13823	0.907	0.05	
9.167	318615	269417	0.846	1.07	
9.466	33702	19547	0.580	0.11	
9.959	36800	22794	0.619	0.12	
	29563593	27003484		100.000	

Total unknown % area = 22

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618024.D
Lab Smp Id: 1659200 Client Smp ID: FD1-170613-01-LMB-1
Inj Date : 16-MAR-2018 19:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1659200,
Misc Info : 17532,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031618.b\pcba030618.m
Meth Date : 02-Apr-2018 13:59 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.991	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			
2.484	2.484	0.000	10147600	0.08230	41			
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			
Qualifier signal(s) failed ratio test.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	79446	0.03391	17	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	99527	0.02398	12	0.00- 20.00	125.28	CO
4.811	4.812	-0.001	115069	0.05668	28	0.00- 20.00	144.84	CO
4.878	4.879	-0.001	268807	0.05336	27	0.00- 20.00	338.35	CO
5.036	5.038	-0.002	105090	0.02928	15	0.00- 20.00	132.28	CO
Average of Peak Concentrations =					20			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	218150	0.04167	21	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	129042	0.03000	15	0.00- 20.00	59.15	BA
5.508	5.510	-0.002	220426	0.02838	14	0.00- 20.00	101.04	BA
6.022	6.027	-0.005	205069	0.04211	21	0.00- 20.00	94.00	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					18			
8 Aroclor 1260					CAS #: 11096-82-5			
6.297	6.300	-0.003	657645	0.07421	37	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	341604	0.03411	17	0.00- 20.00	51.94	CO
7.250	7.251	-0.001	169332	0.03543	18	0.00- 20.00	25.75	CO
7.441	7.443	-0.002	120715	0.04141	21	0.00- 20.00	18.36	CO
7.897	7.901	-0.004	97024	0.03677	18	0.00- 20.00	14.75	CO
Average of Peak Concentrations =					22			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9743197	0.08893	44			

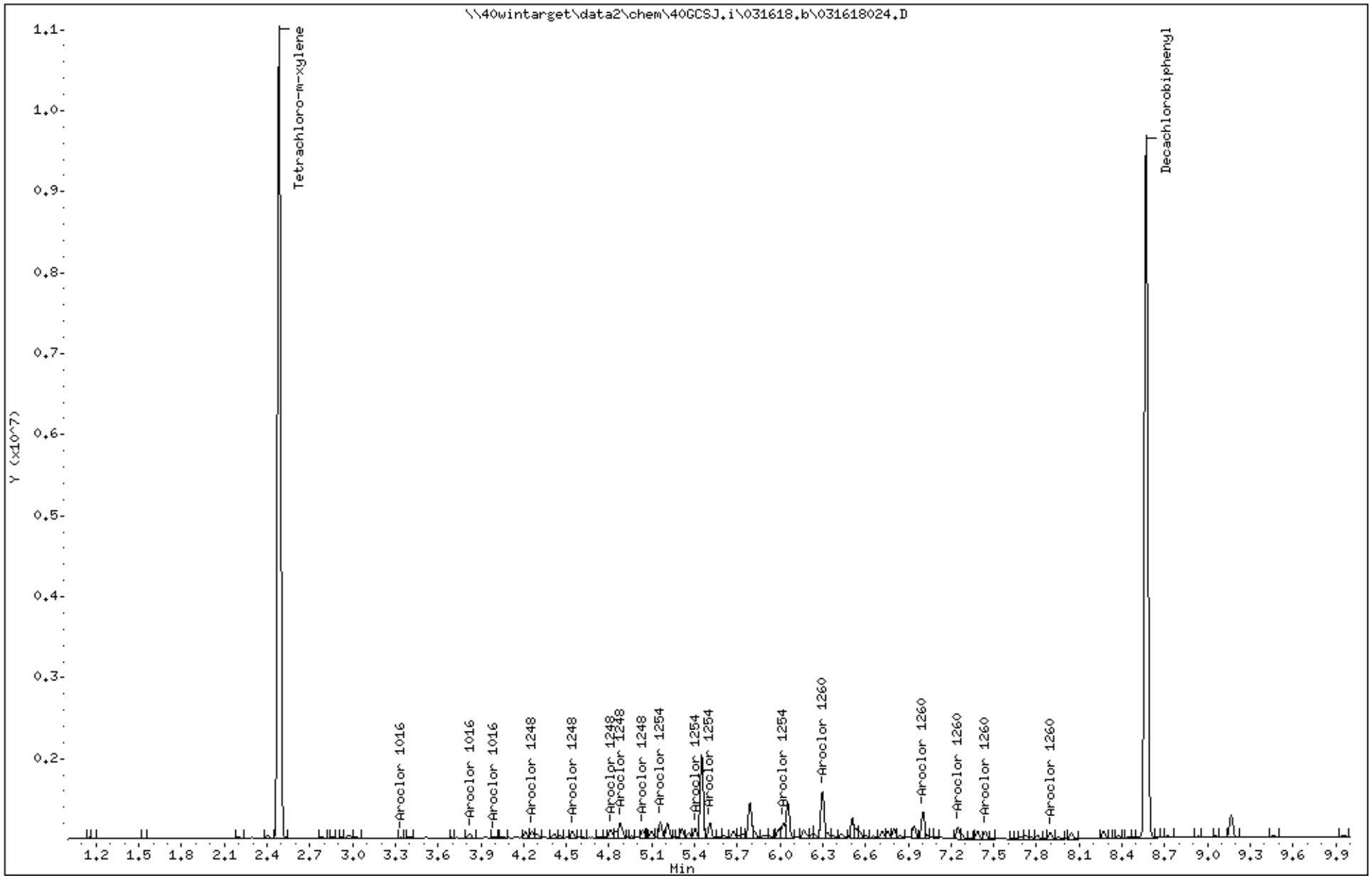
QC Flag Legend

M - Compound response manually integrated.

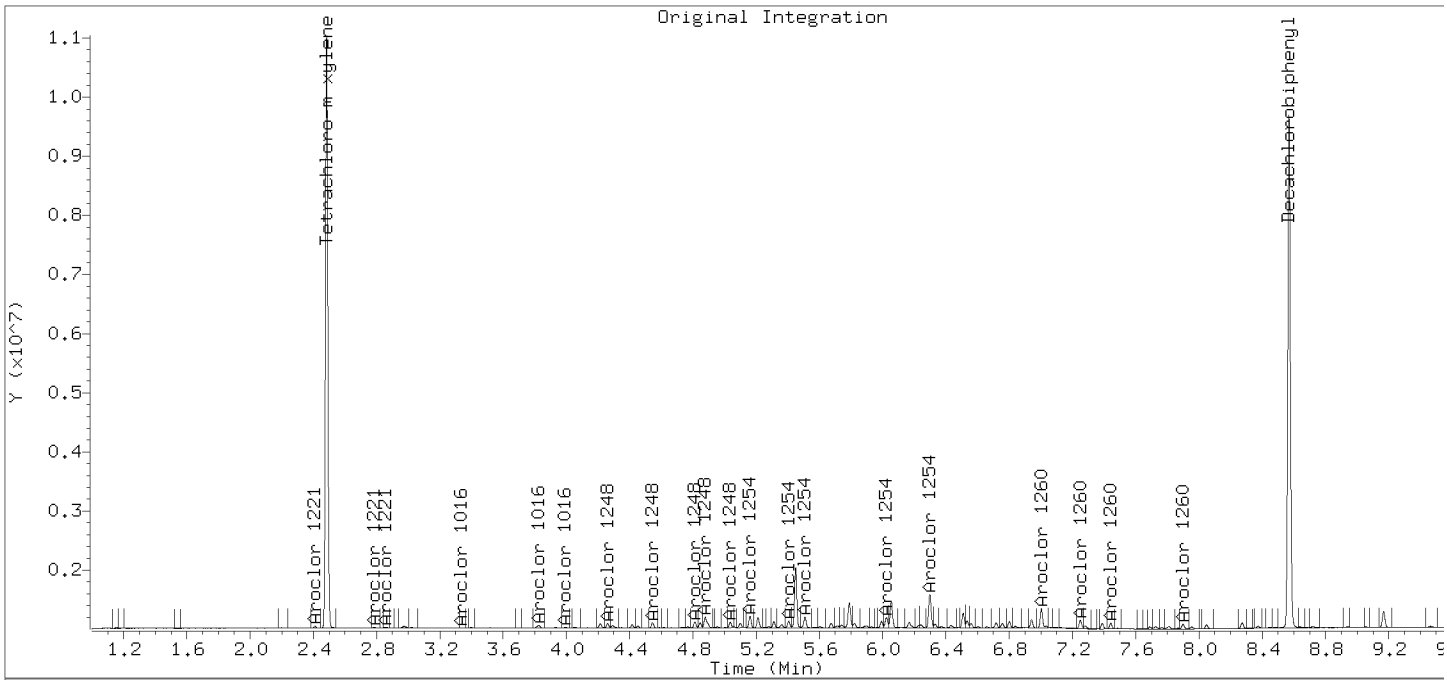
Review Codes Legend

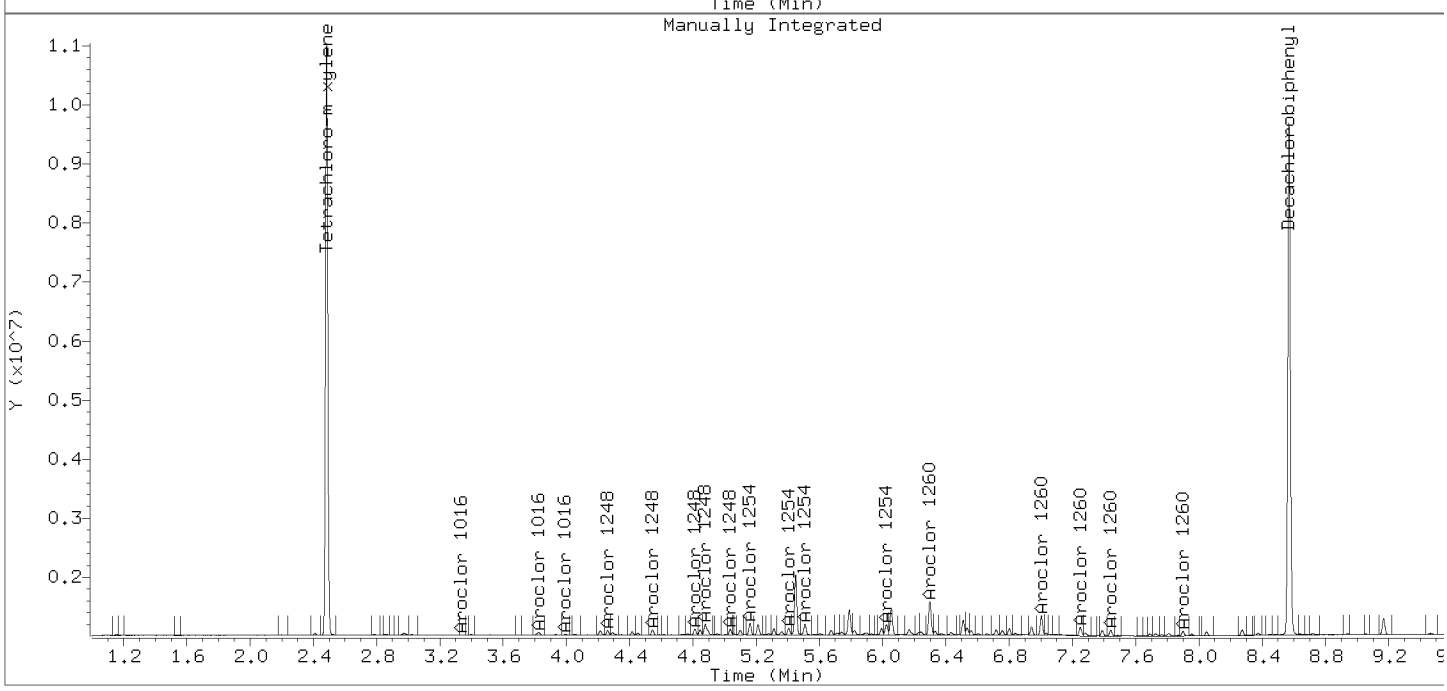
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b\031618024.D
Date : 16-MAR-2018 19:42
Client ID: FD1-170613-01-LMB-1
Instrument: 40GCSJ.i
Sample Info: 1659200,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031618.b/031618024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 16-MAR-2018 19:42 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1659200





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	75813	79446	CO
Aroclor 1248	75813	79446	CO
Aroclor 1248	75813	79446	CO
Aroclor 1248	75813	79446	CO
Aroclor 1248	75813	79446	CO
Aroclor 1254	201560	218150	BA
Aroclor 1254	201560	218150	BA
Aroclor 1254	201560	218150	BA
Aroclor 1254	201560	218150	BA
Aroclor 1254	201560	218150	BA
Aroclor 1260	642965	657645	CO
Aroclor 1260	642965	657645	CO
Aroclor 1260	642965	657645	CO
Aroclor 1260	642965	657645	CO
Aroclor 1260	642965	657645	CO
Tetrachloro-m-xylene	10147600	10147600	
Decachlorobiphenyl	9743197	9743197	

==========

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

Date Received:

Matrix: Tissue SDG No.: 40151613

Date Extracted: 03/23/2018 07:10

Lab Sample ID: 1662965

Date Analyzed: 03/27/2018 15:30

Lab File ID: 032718.B\032718010.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\032718.b\032718010.D
Lab Smp Id: 1662965 Client Smp ID: MB
Inj Date : 27-MAR-2018 15:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662965,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 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	18755	14198	0.757	0.10		
1.537	11052	7162	0.648	0.06		
1.681	11102	8319	0.749	0.06		
2.199	40143	28158	0.701	0.22		
2.485	8703514	8397895	0.965	47.79	$ 2 Tetrachloro-m-xylene	
2.785	18647	16239	0.871	0.10		
2.861	19277	14268	0.740	0.10		
6.349	9927	6605	0.665	0.05		
7.122	25370	16954	0.668	0.13		
7.249	12227	10854	0.888	0.06		
7.691	12109	9692	0.800	0.06		
7.728	48508	41144	0.848	0.26		
7.801	49027	33809	0.690	0.26		
8.274	80519	67961	0.844	0.44		
8.379	19116	14234	0.745	0.10		
8.570	9085196	7938167	0.874	49.97	$ 12 Decachlorobiphenyl	
8.943	12701	10519	0.828	0.06		
9.466	17004	11535	0.678	0.09		
9.959	16424	13251	0.807	0.09		
	18210618	16660964		100.000		

Total unknown % area = 2.2

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718010.D
Lab Smp Id: 1662965 Client Smp ID: MB
Inj Date : 27-MAR-2018 15:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662965,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 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	8703514	0.07059	35			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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

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7 Aroclor 1254 CAS #: 11097-69-1

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

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	9085196	0.08292	41			

Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718010.D

Date : 27-MAR-2018 15:30

Client ID: MB

Instrument: 40GCSJ.i

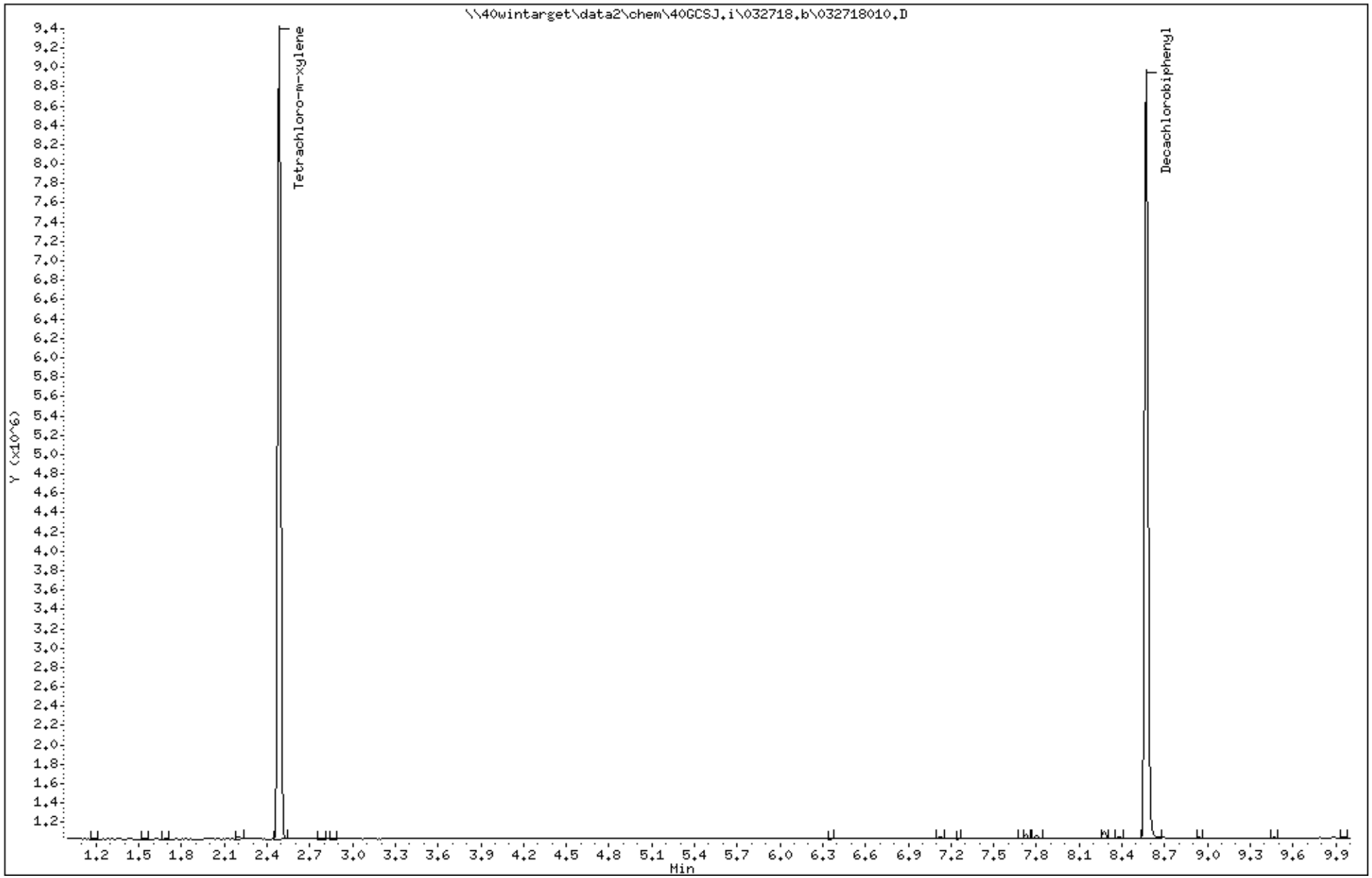
Sample Info: 1662965,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 15:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1662965

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	8703514	8703514	
Decachlorobiphenyl	9085196	9085196	

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

Date Received:

Matrix: Tissue SDG No.: 40151613

Date Extracted: 03/23/2018 07:10

Lab Sample ID: 1662966

Date Analyzed: 03/27/2018 15:46

Lab File ID: 032718.B\032718011.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)	259	
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\032718.b\032718011.D
Lab Smp Id: 1662966 Client Smp ID: LCS
Inj Date : 27-MAR-2018 15:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662966,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 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
1.186	17866	12084	0.676	0.03		
1.431	11779	9255	0.786	0.02		
1.537	10304	8434	0.819	0.02		
1.802	15786	13020	0.825	0.03		
2.013	15127	10651	0.704	0.03		
2.198	15515	15176	0.978	0.03		
2.405	124787	96192	0.771	0.25		
2.485	10365317	9877686	0.953	21.90	$ 2 Tetrachloro-m-xylene	
2.687	192298	156285	0.813	0.39		
2.790	232644	212902	0.915	0.48		
2.851	1026328	938709	0.915	2.13		
3.055	134200	118080	0.880	0.27		
3.279	24908	20780	0.834	0.05		
3.318	1311314	1212211	0.924	2.72	3 Aroclor 1242	BA
3.344	746854	694287	0.930	1.55		
3.435	213506	187723	0.879	0.44		
3.515	1298368	922167	0.710	2.69	3 Aroclor 1242	BA
3.697	36365	35413	0.974	0.07		
3.732	338080	331083	0.979	0.70		
3.756	216572	208632	0.963	0.45		
3.826	3692663	2161284	0.585	7.67	3 Aroclor 1242	BA
3.930	1590790	1322186	0.831	3.30	3 Aroclor 1242	BA
3.995	1049191	994305	0.948	2.18	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.059	290550	263193	0.906	0.60	
4.136	116869	105302	0.901	0.24	
4.215	879641	827344	0.941	1.82	
4.262	830723	788493	0.949	1.72	
4.293	330851	345867	1.045	0.68	
4.311	424558	383237	0.903	0.88	
4.371	24868	20550	0.826	0.05	
4.417	1178236	1076292	0.913	2.44	
4.452	853461	643258	0.754	1.77	
4.546	1454388	1331060	0.915	3.02	
4.617	338932	297502	0.878	0.70	
4.677	22672	19296	0.851	0.04	
4.727	69653	61302	0.880	0.14	
4.768	79673	74304	0.933	0.16	
4.813	660406	637793	0.966	1.37	
4.848	1167843	1087416	0.931	2.42	
4.878	1514379	1092439	0.721	3.14	
4.957	165418	129104	0.780	0.34	
5.037	1233635	1100103	0.892	2.56	
5.098	259011	195240	0.754	0.53	
5.163	298578	256287	0.858	0.62	
5.213	218526	187061	0.856	0.45	
5.283	18286	17345	0.949	0.03	
5.308	54099	42827	0.792	0.11	
5.362	189426	156825	0.828	0.39	
5.406	304585	266428	0.875	0.63	
5.445	197202	169482	0.859	0.40	
5.510	505580	378209	0.748	1.05	
5.604	156635	131132	0.837	0.32	
5.676	17107	14146	0.827	0.03	
5.716	30561	23375	0.765	0.06	
5.742	36610	35832	0.979	0.07	
5.794	337234	243883	0.723	0.70	
5.889	46740	30018	0.642	0.09	
6.024	256346	219680	0.857	0.53	
6.056	55130	42272	0.767	0.11	
6.170	25212	17891	0.710	0.05	
6.300	63829	53914	0.845	0.13	
6.333	16442	14020	0.853	0.03	
6.372	12975	11501	0.886	0.02	
6.537	14437	14837	1.028	0.03	
6.799	15491	12492	0.806	0.03	
7.005	18444	14331	0.777	0.03	
7.121	26010	17121	0.658	0.05	
7.250	16379	9773	0.597	0.03	
7.388	15837	9100	0.575	0.03	
7.692	14365	12065	0.840	0.02	
7.728	55367	45799	0.827	0.11	
7.799	47588	36284	0.762	0.09	
8.275	86449	77207	0.893	0.17	
8.380	18632	12626	0.678	0.03	
8.571	10326435	8669348	0.840	21.46	$ 12 Decachlorobiphenyl
9.467	21939	11687	0.533	0.04	
9.958	19752	11917	0.603	0.04	
	48114553	41304355		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718011.D
Lab Smp Id: 1662966 Client Smp ID: LCS
Inj Date : 27-MAR-2018 15:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662966,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 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	10365317	0.08407	42			
3 Aroclor 1242					CAS #: 53469-21-9			
3.318	3.318	0.000	1311314	0.51765	260	0.00- 20.00	100.00(M)	BA
3.515	3.513	0.002	1298367	0.51522	260	0.00- 20.00	99.01	BA
3.826	3.827	-0.001	3692662	0.51889	260	0.00- 20.00	281.60	BA
3.929	3.929	0.000	1590790	0.52302	260	0.00- 20.00	121.31	BA
3.994	3.995	-0.001	1049191	0.51236	260	0.00- 20.00	80.01	BA
Average of Peak Concentrations =					260			

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	10326434	0.09425	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\032718.b\032718011.D

Date : 27-MAR-2018 15:46

Client ID: LCS

Instrument: 40GCSJ.i

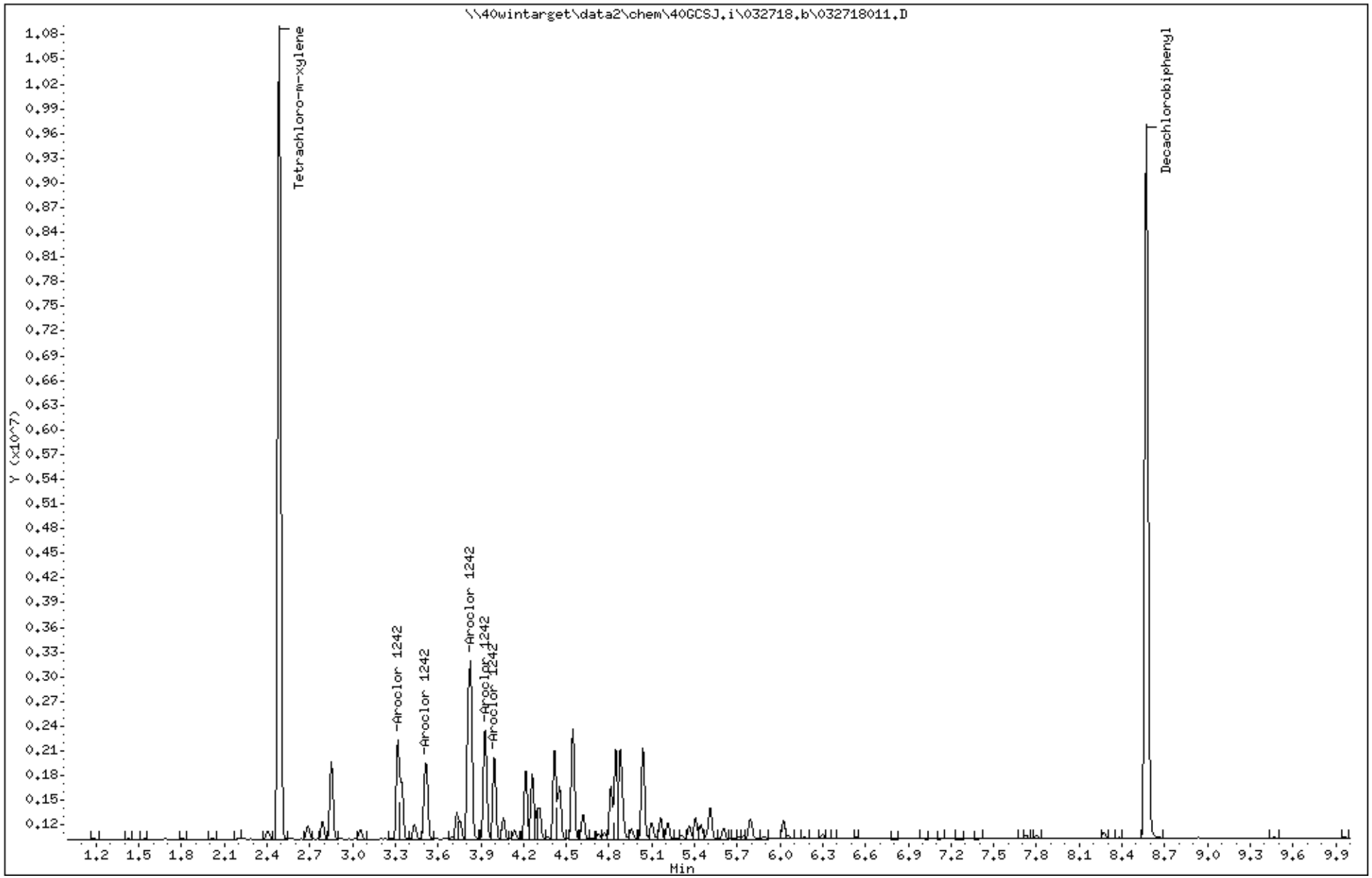
Sample Info: 1662966,

Volume Injected (uL): 1.0

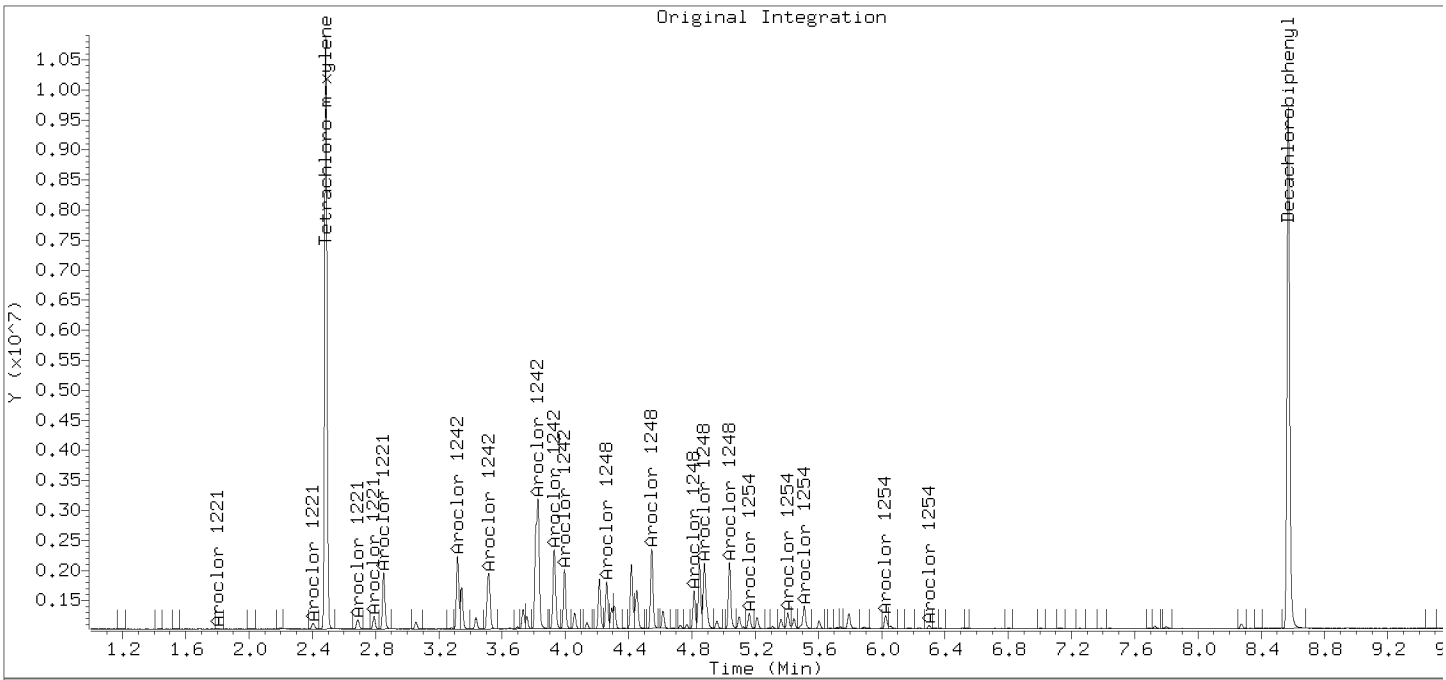
Operator: BLM

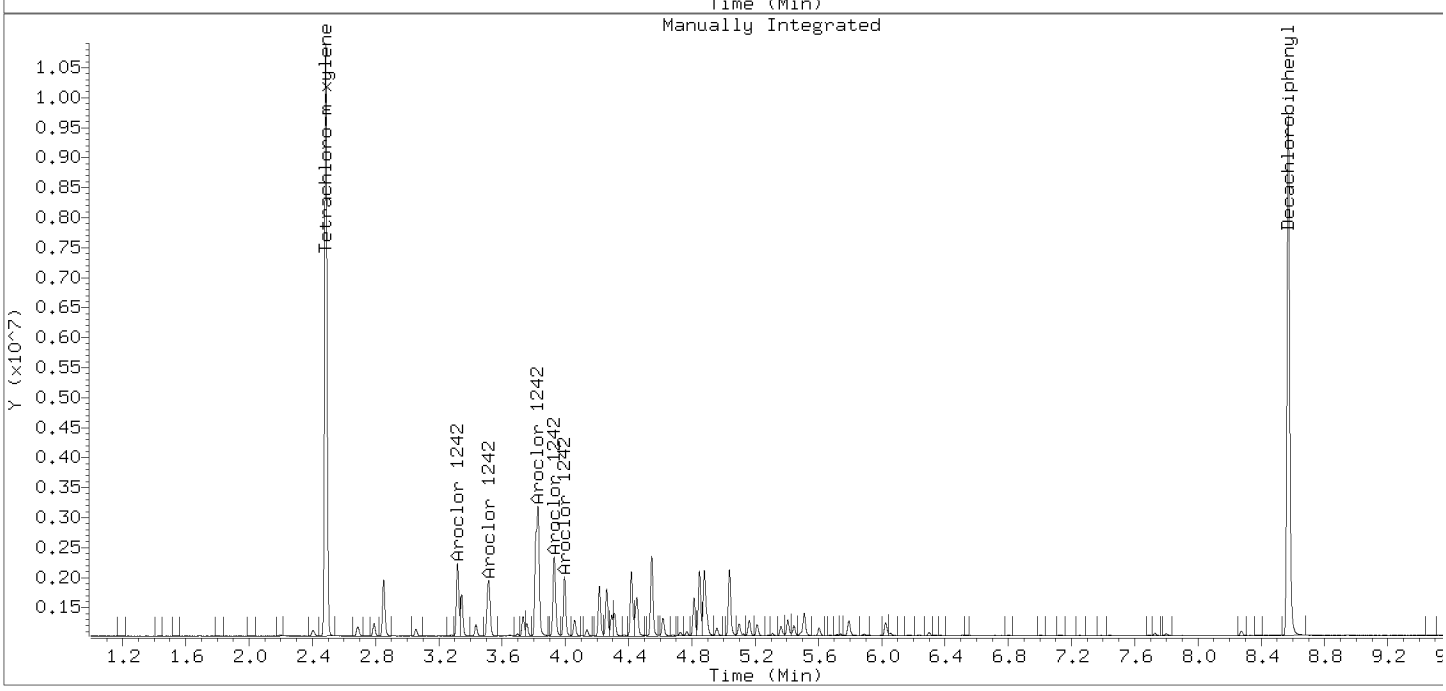
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 15:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1662966





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1305070	0	
Aroclor 1016	1305070	0	
Aroclor 1016	1305070	0	
Aroclor 1016	1305070	0	
Aroclor 1016	1305070	0	
Aroclor 1221	15785	0	
Aroclor 1221	15785	0	
Aroclor 1221	15785	0	
Aroclor 1221	15785	0	
Aroclor 1221	15785	0	
Aroclor 1232	1010824	0	
Aroclor 1232	1010824	0	
Aroclor 1232	1010824	0	
Aroclor 1232	1010824	0	

Aroclor 1232	1010824	0	
Aroclor 1242	1305070	1311314	BA
Aroclor 1242	1305070	1311314	BA
Aroclor 1242	1305070	1311314	BA
Aroclor 1242	1305070	1311314	BA
Aroclor 1242	1305070	1311314	BA
Aroclor 1248	822061	0	
Aroclor 1248	822061	0	
Aroclor 1248	822061	0	
Aroclor 1248	822061	0	
Aroclor 1248	822061	0	
Aroclor 1254	282539	0	
Aroclor 1254	282539	0	
Aroclor 1254	282539	0	
Aroclor 1254	282539	0	
Aroclor 1254	282539	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10365317	10365317	
Decachlorobiphenyl	10326434	10326434	

==========

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

Date Received: 06/14/2017 09:50

Matrix: Tissue SDG No.: 40151613

Date Extracted: 03/23/2018 07:10

Lab Sample ID: 1662967

Date Analyzed: 03/27/2018 16:33

Lab File ID: 032718.B\032718014.D

Initial wt/vol: 9.9887 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\032718.b\032718014.D
Lab Smp Id: 1662967 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 27-MAR-2018 16:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662967,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.989	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.152	9834	11305	1.150	0.03			
1.184	21115	13810	0.654	0.08			
1.425	10045	9828	0.978	0.04			
1.539	13482	8960	0.665	0.05			
2.129	18071	10947	0.606	0.07			
2.173	11623	12107	1.042	0.04			
2.201	28738	18078	0.629	0.11			
2.291	24101	24820	1.030	0.09			
2.314	18788	20000	1.064	0.07			
2.408	18139	19942	1.099	0.07		1 Aroclor 1221	
2.484	11124997	10904800	0.980	44.92	$	2 Tetrachloro-m-xylene	
2.784	20105	17491	0.870	0.08		1 Aroclor 1221	
2.859	17917	12830	0.716	0.07		1 Aroclor 1221	
2.975	17784	11274	0.634	0.07			
3.402	11654	9941	0.853	0.04			
3.695	9726	8096	0.832	0.03			
3.827	22732	17333	0.762	0.09			
4.049	14192	10696	0.754	0.05			
4.216	29704	26509	0.892	0.11			
4.241	18676	21704	1.162	0.07			
4.261	31332	29284	0.935	0.12		6 Aroclor 1248	CO
4.293	30031	19743	0.657	0.12			
4.417	26817	21322	0.795	0.10			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.454	19080	15908	0.834	0.07	
4.545	47319	35828	0.757	0.18	6 Aroclor 1248
4.767	31773	28110	0.885	0.12	
4.811	52252	40774	0.780	0.20	6 Aroclor 1248
4.847	34108	29632	0.869	0.13	
4.880	113504	75675	0.667	0.45	6 Aroclor 1248
4.957	23573	12941	0.549	0.09	
5.035	45115	37280	0.826	0.18	6 Aroclor 1248
5.062	9176	11164	1.217	0.03	
5.104	45198	25940	0.574	0.18	
5.162	92750	75306	0.812	0.37	7 Aroclor 1254
5.213	69636	61601	0.885	0.27	
5.284	13479	10169	0.754	0.05	
5.313	26329	25005	0.950	0.10	
5.354	20731	20610	0.994	0.08	
5.362	31742	27857	0.878	0.12	
5.406	59824	42655	0.713	0.23	7 Aroclor 1254
5.451	253782	228108	0.899	1.01	
5.511	100565	80667	0.802	0.40	7 Aroclor 1254
5.576	18146	12928	0.712	0.07	
5.608	22187	13540	0.610	0.08	
5.676	38642	30246	0.783	0.15	
5.740	27876	18349	0.658	0.11	
5.789	190304	131122	0.689	0.76	
5.893	28735	13775	0.479	0.11	
5.994	42067	34962	0.831	0.16	
6.026	68036	60599	0.891	0.27	7 Aroclor 1254
6.056	179834	142622	0.793	0.71	
6.167	41946	30989	0.739	0.16	
6.242	27055	17921	0.662	0.10	
6.300	192394	159330	0.828	0.76	7 Aroclor 1254
6.332	27355	22444	0.820	0.10	
6.371	17177	12083	0.703	0.06	
6.430	19195	16829	0.877	0.07	
6.511	80853	72229	0.893	0.32	
6.536	45504	39552	0.869	0.18	
6.559	53061	36052	0.679	0.21	
6.663	13886	11119	0.801	0.05	
6.719	37941	25403	0.670	0.15	
6.761	34241	26269	0.767	0.13	
6.800	34677	26725	0.771	0.13	
6.840	16028	11639	0.726	0.06	
6.941	66729	53106	0.796	0.26	
7.005	93560	87814	0.939	0.37	8 Aroclor 1260
7.020	15381	16718	1.087	0.06	
7.126	24431	15505	0.635	0.09	
7.252	57852	44816	0.775	0.23	8 Aroclor 1260
7.282	37338	23685	0.634	0.14	
7.390	21982	22456	1.022	0.08	
7.443	41528	34132	0.822	0.16	8 Aroclor 1260
7.696	17050	15263	0.895	0.06	
7.729	43941	36884	0.839	0.17	
7.805	36751	23249	0.633	0.14	
7.900	28129	22021	0.783	0.11	8 Aroclor 1260
7.958	17655	11374	0.644	0.07	
8.049	37415	30232	0.808	0.14	
8.275	89837	75776	0.843	0.35	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.378	24794	17872	0.721	0.09	
8.571	10303829	8627737	0.837	41.19	$ 12 Decachlorobiphenyl
8.941	17172	12446	0.725	0.06	
9.170	68956	58137	0.843	0.27	
9.467	36692	20919	0.570	0.14	
9.959	37271	24913	0.668	0.14	
	25014975	22387832		100.000	

Total unknown % area = 9.6

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032718.b\032718014.D
Lab Smp Id: 1662967 Client Smp ID: FD1-170613-01-LMB-0
Inj Date : 27-MAR-2018 16:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1662967,
Misc Info : 17575,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032718.b\pcba030618.m
Meth Date : 04-Apr-2018 12:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.989	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

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	11124997	0.09023	45			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

Qualifier signal(s) failed ratio test. CO

---

7 Aroclor 1254 CAS #: 11097-69-1

Qualifier signal(s) failed ratio test. CO

---

8 Aroclor 1260 CAS #: 11096-82-5

Qualifier signal(s) failed ratio test. CO

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	10303829	0.09405	47			

Review Codes Legend

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\032718.b\032718014.D

Date : 27-MAR-2018 16:33

Client ID: FD1-170613-01-LMB-0

Instrument: 40GCSJ.i

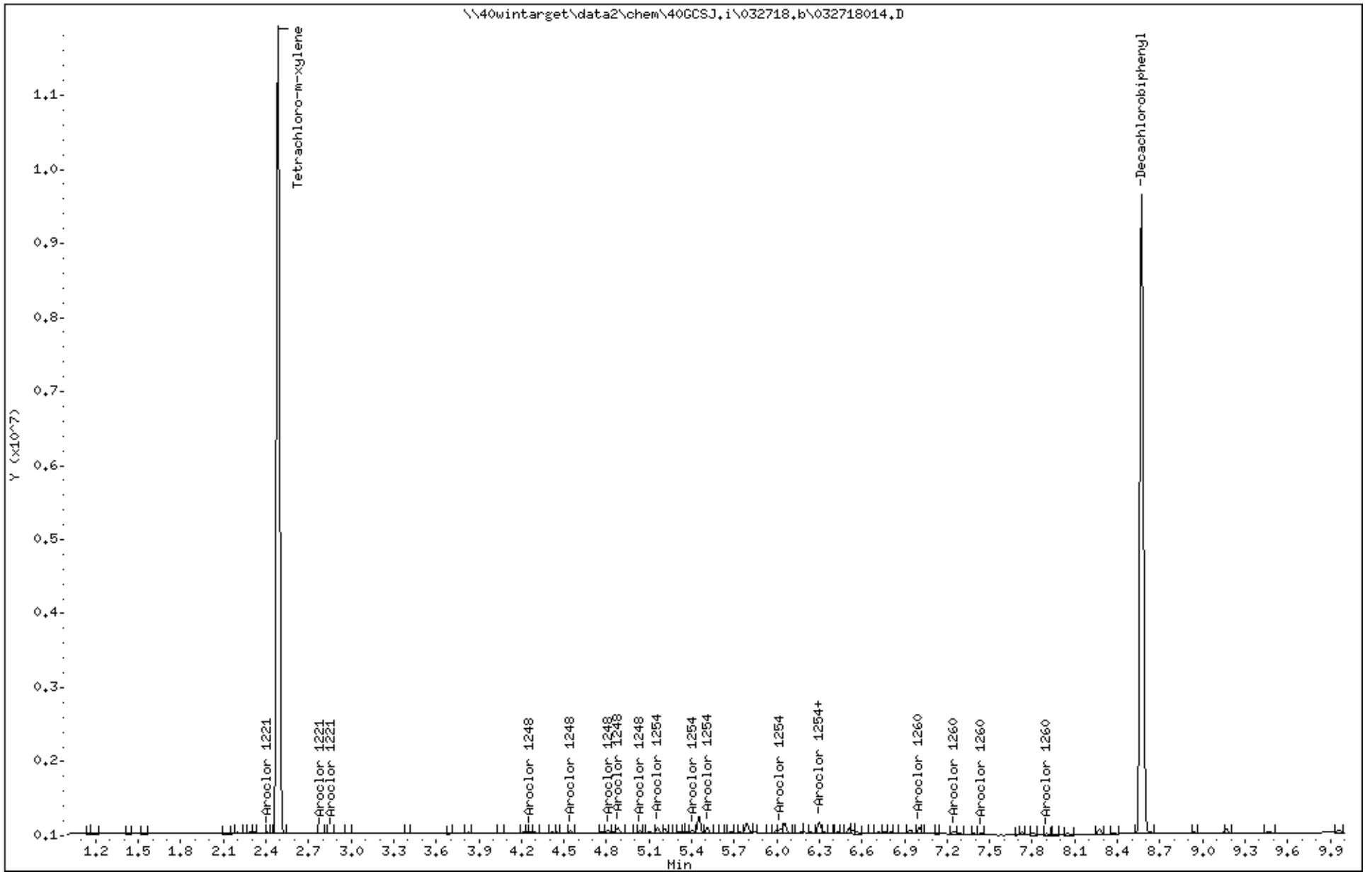
Sample Info: 1662967,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032718.b/032718014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 27-MAR-2018 16:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1662967

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	CO
Aroclor 1248	0	0	CO
Aroclor 1248	0	0	CO
Aroclor 1248	0	0	CO
Aroclor 1248	0	0	CO
Aroclor 1254	0	0	CO
Aroclor 1254	0	0	CO
Aroclor 1254	0	0	CO
Aroclor 1254	0	0	CO
Aroclor 1254	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Tetrachloro-m-xylene	11124997	11124997	
Decachlorobiphenyl	10303829	10303829	

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

Date Received:

Matrix: Tissue SDG No.: 40151613

Date Extracted: 03/28/2018 08:09

Lab Sample ID: 1664793

Date Analyzed: 03/30/2018 17:22

Lab File ID: 033018.B\033018010.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018010.D
Lab Smp Id: 1664793 Client Smp ID: MB
Inj Date : 30-MAR-2018 17:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664793,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 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	14570	13384	0.919	0.07		
1.539	10323	9103	0.882	0.05		
1.688	11405	8619	0.756	0.05		
2.199	61443	30725	0.500	0.31		
2.485	9345991	8986785	0.962	48.06	$ 2 Tetrachloro-m-xylene	
2.788	19349	15309	0.791	0.09		
7.125	21633	13203	0.610	0.11		
7.725	44824	39078	0.872	0.23		
7.800	29631	28981	0.978	0.15		
8.274	87961	73547	0.836	0.45		
8.378	20602	13224	0.642	0.10		
8.570	9756823	8203778	0.841	50.24	$ 12 Decachlorobiphenyl	
8.938	10515	8884	0.845	0.05		
9.958	9403	7914	0.842	0.04		
	19444473	17452534		100.000		

Total unknown % area = 1.7

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018010.D
Lab Smp Id: 1664793 Client Smp ID: MB
Inj Date : 30-MAR-2018 17:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664793,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 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	9345991	0.07580	38			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

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).

---

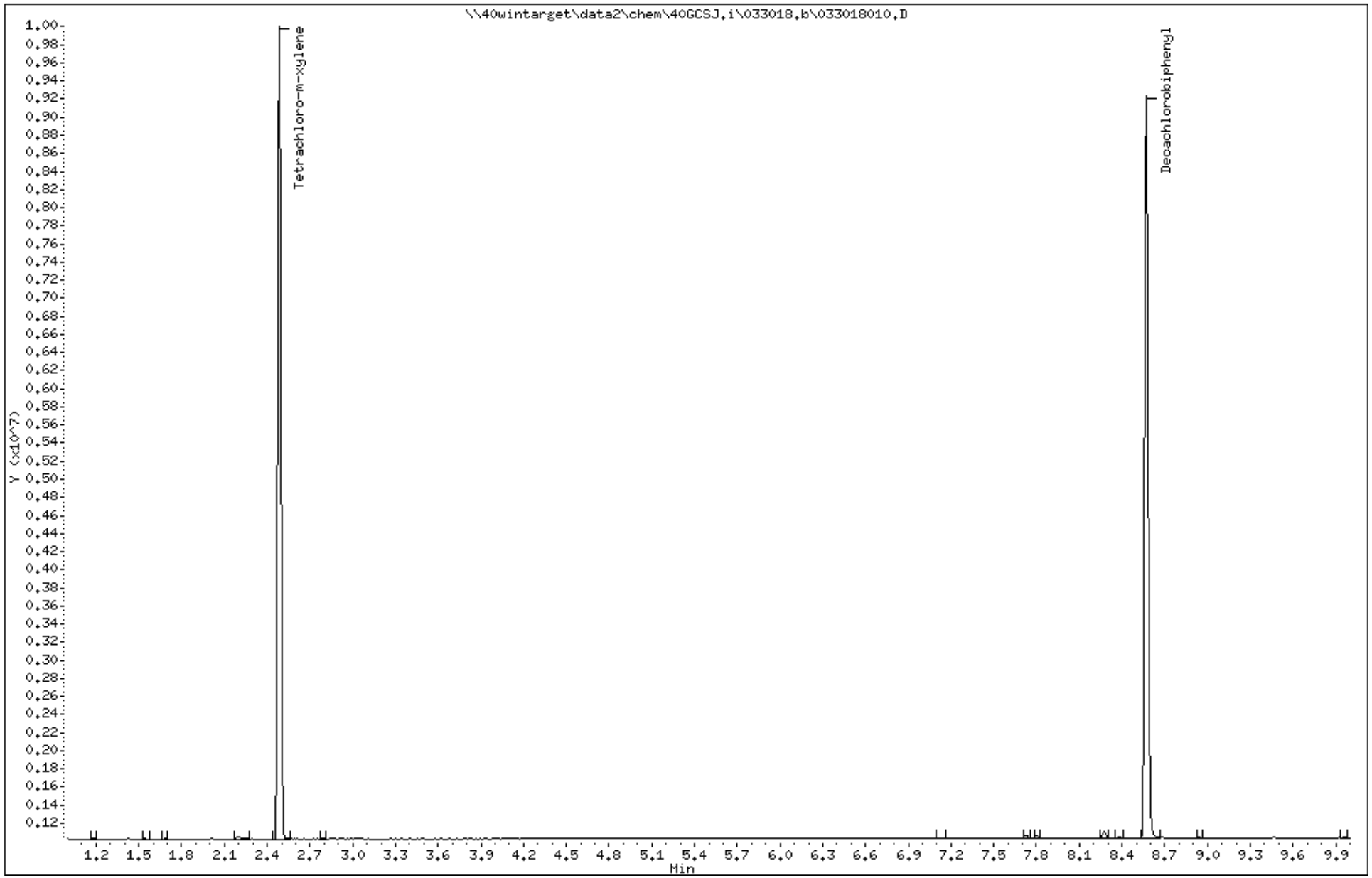
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	9756823	0.08905		44		

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018010.D
Date : 30-MAR-2018 17:22
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1664793,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 17:22 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1664793

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	9345991	9345991	
Decachlorobiphenyl	9756823	9756823	

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

Date Received:

Matrix: Tissue SDG No.: 40151613

Date Extracted: 03/28/2018 08:09

Lab Sample ID: 1664794

Date Analyzed: 03/30/2018 17:38

Lab File ID: 033018.B\033018011.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\033018.b\033018011.D
Lab Smp Id: 1664794 Client Smp ID: MBLCS
Inj Date : 30-MAR-2018 17:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664794,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 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	14371	12627	0.879	0.03		
1.423	10530	7685	0.730	0.02		
1.536	13414	7924	0.591	0.02		
1.686	11381	10053	0.883	0.02		
2.198	54145	32734	0.605	0.11		
2.405	112460	86945	0.773	0.24		
2.484	10031155	9542303	0.951	22.16	$ 2 Tetrachloro-m-xylene	
2.687	169882	137424	0.809	0.37		
2.789	206912	194056	0.938	0.45		
2.850	916005	843455	0.921	2.02		
3.054	109450	106780	0.976	0.24		
3.276	24277	17988	0.741	0.05		
3.318	1194942	1102529	0.923	2.63	3 Aroclor 1242	BA
3.344	673074	628279	0.933	1.48		
3.433	189004	166505	0.881	0.41		
3.513	1179824	838056	0.710	2.60	3 Aroclor 1242	BA
3.647	20606	14963	0.726	0.04		
3.696	33251	32704	0.984	0.07		
3.731	305888	299746	0.980	0.67		
3.756	201569	189205	0.939	0.44		
3.827	3390735	1931255	0.570	7.49	3 Aroclor 1242	BA
3.928	1455755	1202014	0.826	3.21	3 Aroclor 1242	BA
3.993	960656	896360	0.933	2.12	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.057	264291	236277	0.894	0.58	
4.136	107261	95815	0.893	0.23	
4.214	794554	739961	0.931	1.75	
4.260	755016	715461	0.948	1.66	
4.292	310234	311821	1.005	0.68	
4.309	379143	345005	0.910	0.83	
4.370	23790	19392	0.815	0.05	
4.417	1056407	979658	0.927	2.33	
4.451	808986	599820	0.741	1.78	
4.545	1342685	1194659	0.890	2.96	
4.617	306653	277666	0.905	0.67	
4.681	21743	18158	0.835	0.04	
4.727	68527	54682	0.798	0.15	
4.767	71956	65521	0.911	0.15	
4.812	606613	573568	0.946	1.34	
4.847	1080460	1003008	0.928	2.38	
4.878	1382549	1012969	0.733	3.05	
4.957	157241	119163	0.758	0.34	
5.037	1141778	1008137	0.883	2.52	
5.099	236608	175642	0.742	0.52	
5.162	271430	237736	0.876	0.59	
5.212	196259	173485	0.884	0.43	
5.284	17550	15371	0.876	0.03	
5.308	48879	38335	0.784	0.10	
5.362	170525	144062	0.845	0.37	
5.406	294036	234927	0.799	0.64	
5.446	178715	155302	0.869	0.39	
5.509	476178	345620	0.726	1.05	
5.605	140916	119367	0.847	0.31	
5.674	15337	14250	0.929	0.03	
5.716	27794	21374	0.769	0.06	
5.741	51456	31217	0.607	0.11	
5.792	299958	231188	0.771	0.66	
5.888	48680	27142	0.558	0.10	
6.023	280916	206418	0.735	0.62	
6.167	30563	17934	0.587	0.06	
6.299	63446	50975	0.803	0.14	8 Aroclor 1260
6.334	16217	13312	0.821	0.03	
6.511	9835	10746	1.093	0.02	
6.535	25592	16656	0.651	0.05	
6.805	14085	11480	0.815	0.03	
7.005	20456	15271	0.747	0.04	8 Aroclor 1260
7.124	18063	14848	0.822	0.03	
7.245	11908	10334	0.868	0.02	8 Aroclor 1260
7.444	13524	9088	0.672	0.02	8 Aroclor 1260
7.727	48321	42048	0.870	0.10	
7.801	31610	31396	0.993	0.06	
7.899	9566	7815	0.817	0.02	8 Aroclor 1260
8.275	89863	76286	0.849	0.19	
8.378	17149	13847	0.807	0.03	
8.570	10109187	8088140	0.800	22.73	$ 12 Decachlorobiphenyl
9.462	11459	9498	0.829	0.02	
9.956	11260	11145	0.990	0.02	
	45266512	38294586		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018011.D
Lab Smp Id: 1664794 Client Smp ID: MBLCS
Inj Date : 30-MAR-2018 17:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664794,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 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	10031154	0.08136	41			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1194941	0.47171	240	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1179824	0.46818	230	0.00- 20.00	98.73	BA
3.826	3.827	-0.001	3390734	0.47646	240	0.00- 20.00	283.76	BA
3.928	3.929	-0.001	1455755	0.47863	240	0.00- 20.00	121.83	BA
3.993	3.995	-0.002	960656	0.46913	230	0.00- 20.00	80.39	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

Qualifier signal(s) failed ratio test. BA

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
8.570	8.571	-0.001	10109187	0.09227	46			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018011.D

Date : 30-MAR-2018 17:38

Client ID: MBLCS

Instrument: 40GCSJ.i

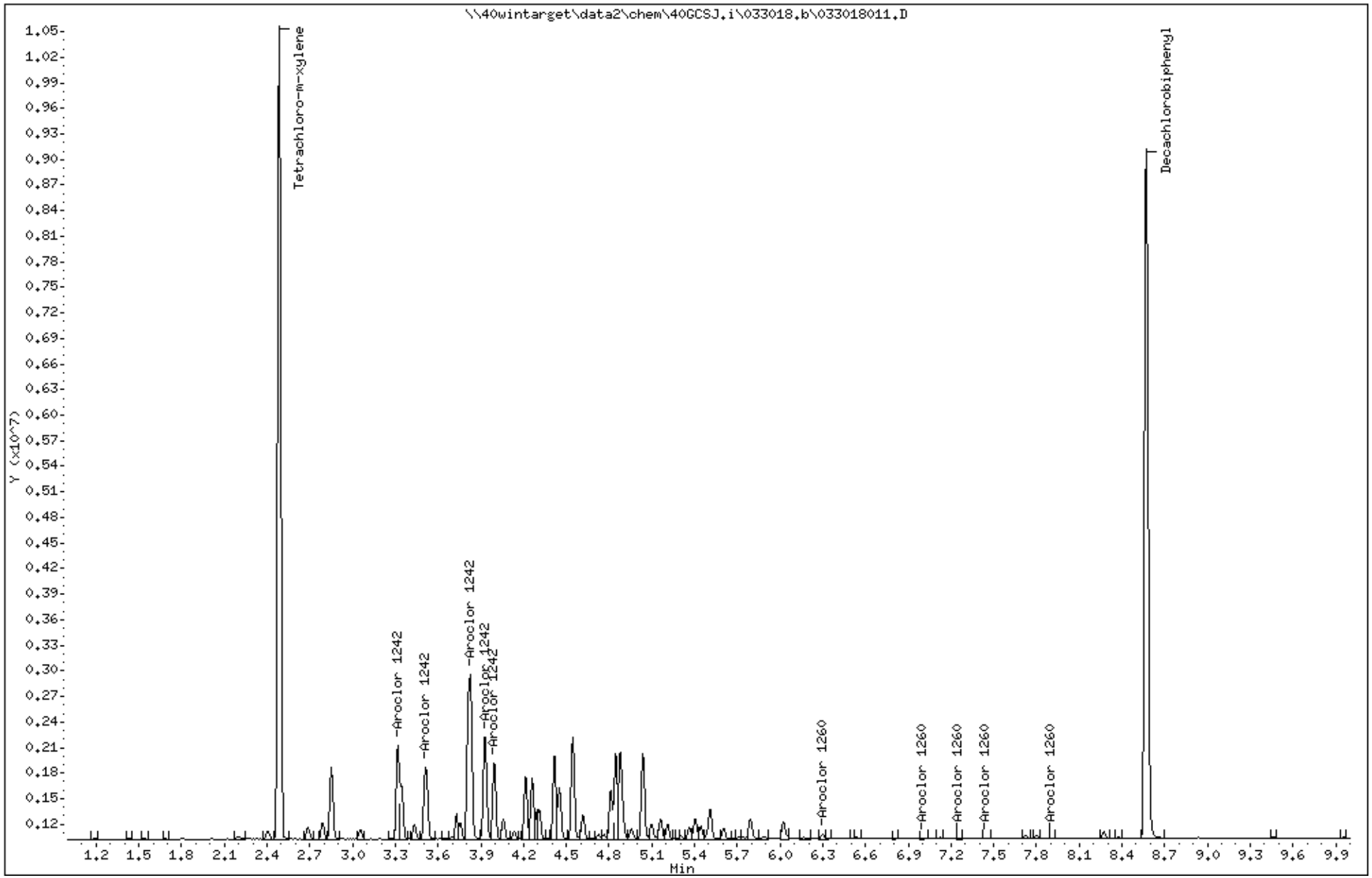
Sample Info: 1664794,

Volume Injected (uL): 1.0

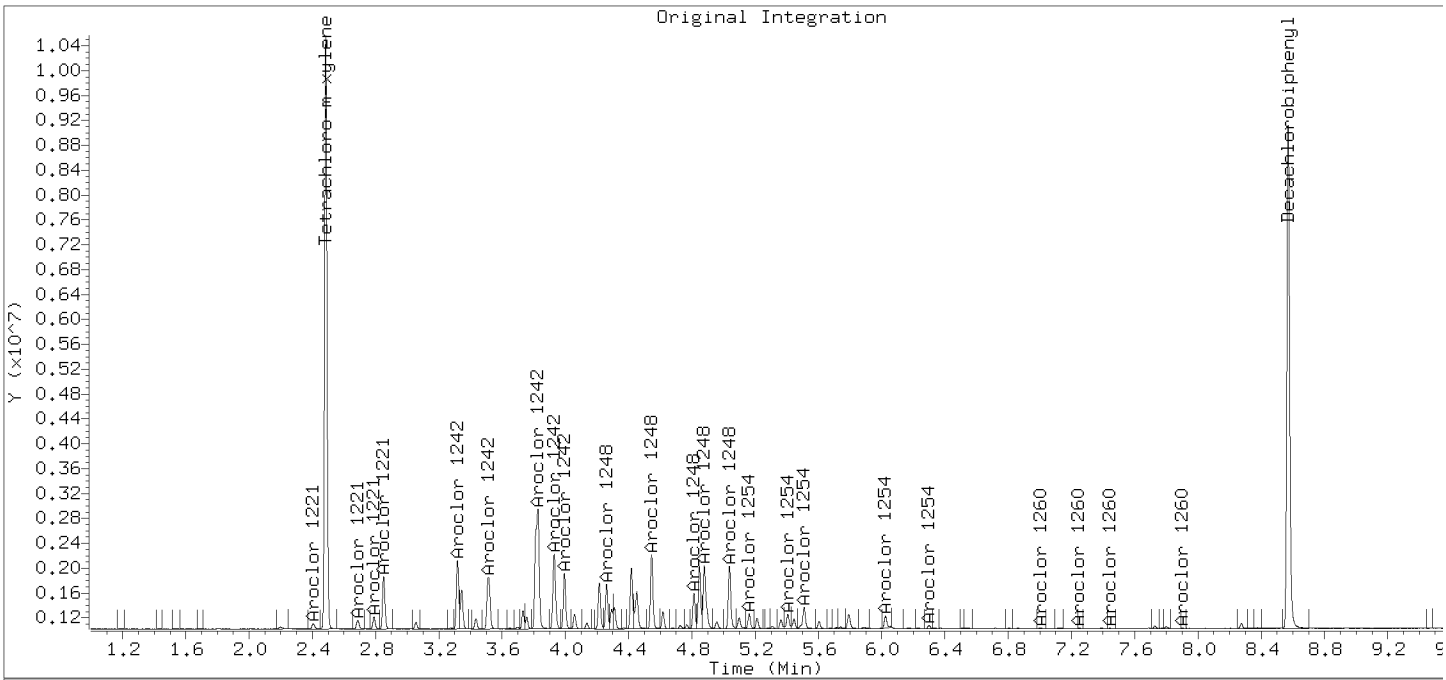
Operator: BLM

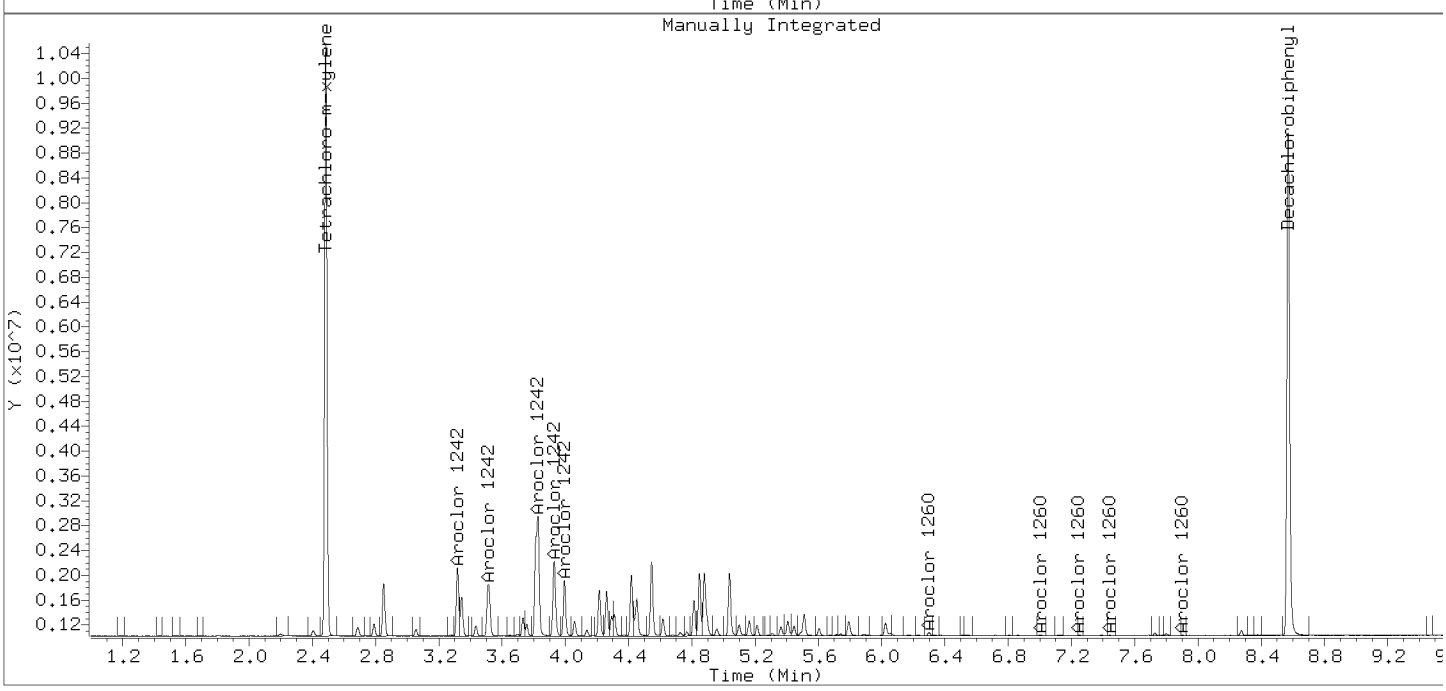
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 17:38 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1664794





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1186083	0	
Aroclor 1016	1186083	0	
Aroclor 1016	1186083	0	
Aroclor 1016	1186083	0	
Aroclor 1016	1186083	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	916004	0	
Aroclor 1232	916004	0	
Aroclor 1232	916004	0	
Aroclor 1232	916004	0	

Aroclor 1232	916004	0	
Aroclor 1242	1186083	1194941	BA
Aroclor 1242	1186083	1194941	BA
Aroclor 1242	1186083	1194941	BA
Aroclor 1242	1186083	1194941	BA
Aroclor 1242	1186083	1194941	BA
Aroclor 1248	753062	0	
Aroclor 1248	753062	0	
Aroclor 1248	753062	0	
Aroclor 1248	753062	0	
Aroclor 1248	753062	0	
Aroclor 1254	261395	0	
Aroclor 1254	261395	0	
Aroclor 1254	261395	0	
Aroclor 1254	261395	0	
Aroclor 1254	261395	0	
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Aroclor 1260	0	0	BA
Tetrachloro-m-xylene	10031154	10031154	
Decachlorobiphenyl	10109187	10109187	

==========

SAMPLE NO.

MS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION

Date Received: 06/14/2017 09:50

Matrix: Tissue SDG No.: 40151613

Date Extracted: 03/28/2018 08:09

Lab Sample ID: 1664795

Date Analyzed: 03/30/2018 17:54

Lab File ID: 033018.B\033018012.D

Initial wt/vol: 9.9787 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)	43.4	J
11096-82-5	PCB-1260 (Aroclor 1260)	35.7	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018012.D
Lab Smp Id: 1664795 Client Smp ID: FD1-170613-01-SMB-0
Inj Date : 30-MAR-2018 17:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664795,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.979	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	16643	11840	0.711	0.03		
1.291	11411	8948	0.784	0.02		
1.349	11910	6052	0.508	0.02		
1.429	12263	10047	0.819	0.02		
1.543	14090	9407	0.668	0.02		
1.804	13631	12245	0.898	0.02		
2.198	49398	31059	0.629	0.09		
2.405	119437	92590	0.775	0.22		
2.485	9735669	9383704	0.964	18.63	$ 2 Tetrachloro-m-xylene	
2.686	174882	137877	0.788	0.32		
2.789	213658	193270	0.905	0.39		
2.850	934147	859759	0.920	1.72		
3.020	17440	17582	1.008	0.03		
3.055	124430	110767	0.890	0.23		
3.278	23073	16186	0.702	0.04		
3.318	1182866	1103553	0.933	2.19	3 Aroclor 1242	BA
3.344	685356	621136	0.906	1.26		
3.434	190448	171031	0.898	0.35		
3.512	1187798	852709	0.718	2.19	3 Aroclor 1242	BA
3.649	23253	15009	0.645	0.04		
3.697	37377	33867	0.906	0.06		
3.732	306163	297518	0.972	0.56		
3.756	198254	191908	0.968	0.36		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.826	3383308	1975048	0.584	6.26	3 Aroclor 1242
3.928	1466011	1210164	0.825	2.71	3 Aroclor 1242
3.994	972541	904159	0.930	1.80	3 Aroclor 1242
4.057	279934	243023	0.868	0.51	
4.136	128949	100293	0.778	0.23	
4.215	837326	765947	0.915	1.55	
4.261	790796	731721	0.925	1.46	
4.292	333357	325682	0.977	0.61	
4.309	396185	359859	0.908	0.73	
4.370	41539	25064	0.603	0.07	
4.417	1068339	975733	0.913	1.97	
4.452	854783	606936	0.710	1.58	
4.501	23880	24929	1.044	0.04	
4.545	1413135	1240051	0.878	2.61	
4.617	364746	294357	0.807	0.67	
4.680	42544	26053	0.612	0.07	
4.727	87792	65683	0.748	0.16	
4.767	117773	98252	0.834	0.21	
4.812	680318	628989	0.925	1.25	
4.847	1116609	1056703	0.946	2.06	
4.878	1517067	1102537	0.727	2.80	
4.959	187417	134842	0.719	0.34	
5.005	14300	17288	1.209	0.02	
5.036	1214109	1045489	0.861	2.24	
5.099	310779	219618	0.707	0.57	
5.162	448974	380756	0.848	0.83	7 Aroclor 1254
5.211	344249	291868	0.848	0.63	
5.284	46469	33595	0.723	0.08	
5.310	124052	99502	0.802	0.22	
5.362	245781	189426	0.771	0.45	
5.406	398797	326181	0.818	0.73	7 Aroclor 1254
5.450	826224	742135	0.898	1.53	
5.509	640575	482447	0.753	1.18	7 Aroclor 1254
5.573	39058	25407	0.650	0.07	
5.603	176412	142506	0.808	0.32	
5.675	122457	101131	0.826	0.22	
5.716	88180	57442	0.651	0.16	
5.739	90728	73625	0.811	0.16	
5.790	799702	614496	0.768	1.48	
5.819	64689	48397	0.748	0.11	
5.887	139554	54612	0.391	0.25	
5.993	151551	128474	0.848	0.28	
6.024	416322	367203	0.882	0.77	7 Aroclor 1254
6.055	758764	651339	0.858	1.40	
6.168	241835	168036	0.695	0.44	
6.226	48874	52734	1.079	0.09	
6.242	97757	64963	0.665	0.18	
6.299	791811	680703	0.860	1.46	8 Aroclor 1260
6.332	105260	89316	0.849	0.19	
6.373	51779	36252	0.700	0.09	
6.431	110819	82293	0.743	0.20	
6.508	514403	453484	0.882	0.95	
6.534	130953	133343	1.018	0.24	
6.560	173136	149777	0.865	0.32	
6.606	24145	22144	0.917	0.04	
6.659	52078	50984	0.979	0.09	
6.716	250672	216019	0.862	0.46	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.758	187486	159060	0.848	0.34	
6.800	135864	118056	0.869	0.25	
6.837	62535	53465	0.855	0.11	
6.911	25083	21939	0.875	0.04	
6.942	283292	256445	0.905	0.52	
7.003	795047	723161	0.910	1.47	8 Aroclor 1260
7.032	46141	55575	1.204	0.08	
7.073	9791	10844	1.108	0.01	
7.100	13903	15525	1.117	0.02	
7.118	34623	25693	0.742	0.06	
7.251	226613	194017	0.856	0.41	8 Aroclor 1260
7.282	98995	76271	0.770	0.18	
7.338	15839	14421	0.910	0.02	
7.389	236530	207382	0.877	0.43	
7.442	207956	181813	0.874	0.38	8 Aroclor 1260
7.618	6364	5922	0.931	0.01	
7.647	10089	9837	0.975	0.01	
7.691	63114	61882	0.980	0.11	
7.726	52875	43710	0.827	0.09	
7.761	22283	18356	0.824	0.04	
7.811	109086	83786	0.768	0.20	
7.863	10993	11154	1.015	0.02	
7.899	181367	156350	0.862	0.33	8 Aroclor 1260
7.954	37298	24547	0.658	0.06	
8.048	232008	201667	0.869	0.42	
8.226	9619	6866	0.714	0.01	
8.273	122251	97517	0.798	0.22	
8.319	14458	9409	0.651	0.02	
8.376	32482	23271	0.716	0.06	
8.569	8977482	7527633	0.839	16.62	$ 12 Decachlorobiphenyl
8.726	45368	33961	0.749	0.08	
8.936	9501	8277	0.871	0.01	
9.055	37579	28921	0.770	0.06	
9.167	187381	163921	0.875	0.34	
9.463	13622	11185	0.821	0.02	
	53998117	46018913		100.000	

Total unknown % area = 42

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018012.D
Lab Smp Id: 1664795 Client Smp ID: FD1-170613-01-SMB-0
Inj Date : 30-MAR-2018 17:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664795,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.979	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	9735669	0.07896	40			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1182865	0.46695	230	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1187798	0.47134	240	0.00- 20.00	100.42	BA
3.826	3.827	-0.001	3383307	0.47542	240	0.00- 20.00	286.03	BA
3.928	3.929	-0.001	1466010	0.48200	240	0.00- 20.00	123.94	BA
3.994	3.995	-0.001	972541	0.47493	240	0.00- 20.00	82.22	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			
5.161	5.162	-0.001	448974	0.08576	43	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	398796	0.09272	46	0.00- 20.00	88.82	BA
5.509	5.510	-0.001	640575	0.08248	41	0.00- 20.00	142.68	BA
6.023	6.027	-0.004	416322	0.08549	43	0.00- 20.00	92.73	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					43			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	791810	0.08935	45	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	795047	0.07939	40	0.00- 20.00	100.41	CO
7.250	7.251	-0.001	226612	0.04741	24	0.00- 20.00	28.62	CO
7.441	7.443	-0.002	207955	0.07134	36	0.00- 20.00	26.26	CO
7.898	7.901	-0.003	181366	0.06873	34	0.00- 20.00	22.91	CO
Average of Peak Concentrations =					36			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	8977482	0.08194	41			

QC Flag Legend

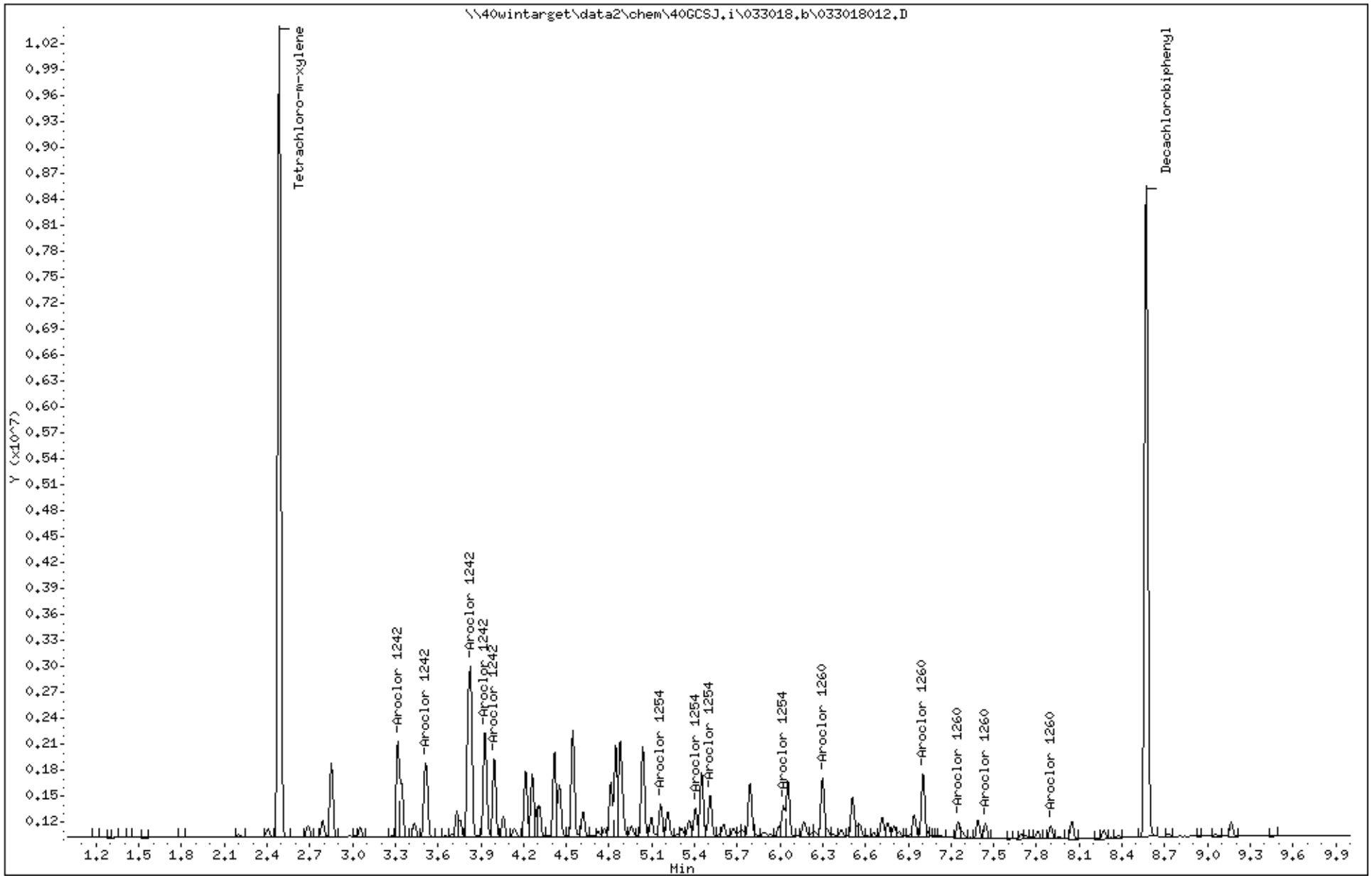
M - Compound response manually integrated.

Review Codes Legend

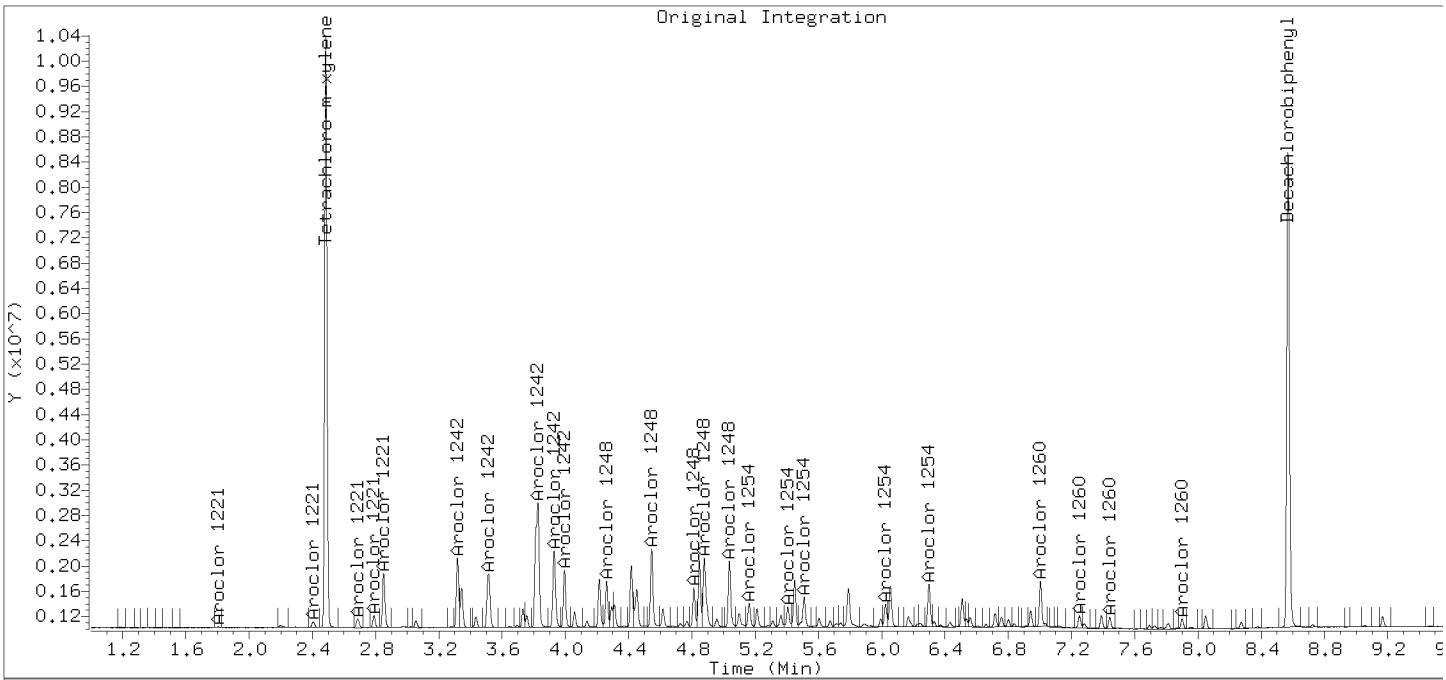
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

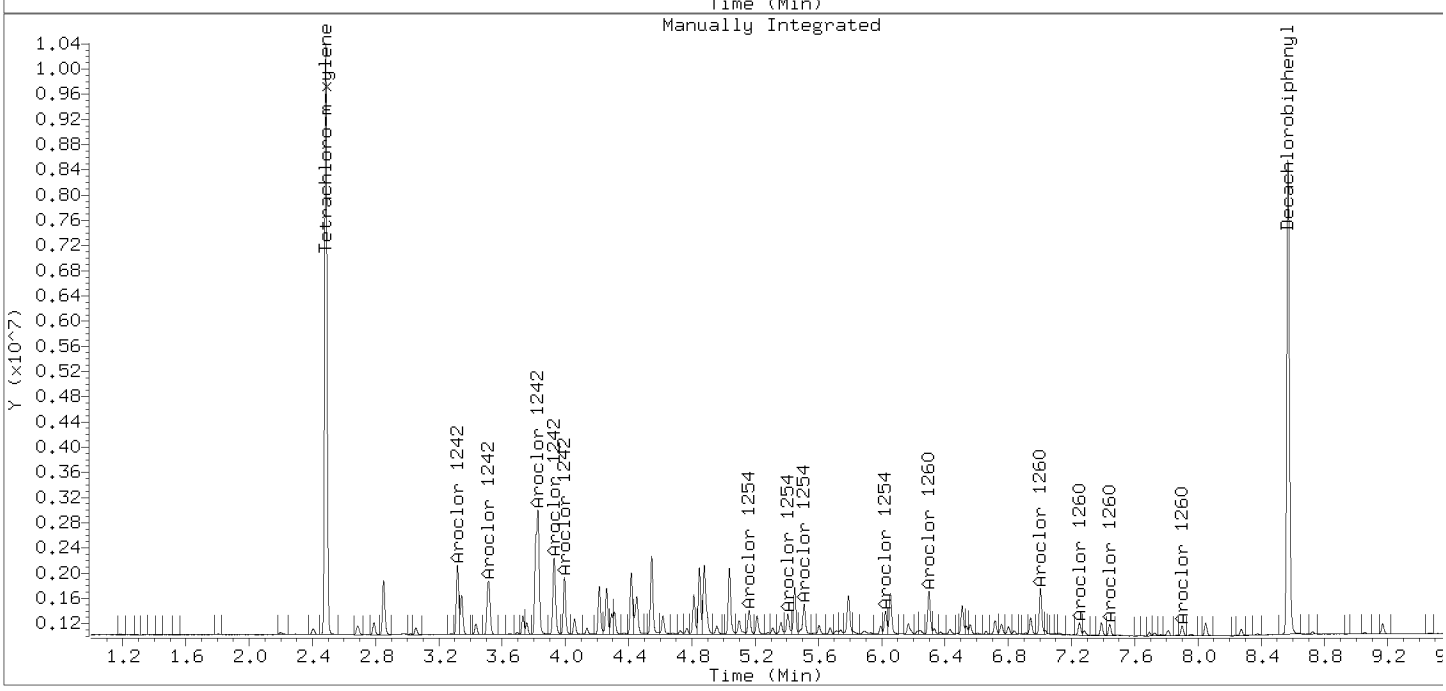
Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018012.D
Date : 30-MAR-2018 17:54
Client ID: FD1-170613-01-SMB-0
Sample Info: 1664795,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018012.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 17:54 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1664795





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1176516	0	
Aroclor 1016	1176516	0	
Aroclor 1016	1176516	0	
Aroclor 1016	1176516	0	
Aroclor 1016	1176516	0	
Aroclor 1221	13631	0	
Aroclor 1221	13631	0	
Aroclor 1221	13631	0	
Aroclor 1221	13631	0	
Aroclor 1221	13631	0	
Aroclor 1232	920871	0	
Aroclor 1232	920871	0	
Aroclor 1232	920871	0	
Aroclor 1232	920871	0	

Aroclor 1232	920871	0	
Aroclor 1242	1176516	1182865	BA
Aroclor 1242	1176516	1182865	BA
Aroclor 1242	1176516	1182865	BA
Aroclor 1242	1176516	1182865	BA
Aroclor 1242	1176516	1182865	BA
Aroclor 1248	783859	0	
Aroclor 1248	783859	0	
Aroclor 1248	783859	0	
Aroclor 1248	783859	0	
Aroclor 1248	783859	0	
Aroclor 1254	437331	448974	BA
Aroclor 1254	437331	448974	BA
Aroclor 1254	437331	448974	BA
Aroclor 1254	437331	448974	BA
Aroclor 1254	437331	448974	BA
Aroclor 1260	774899	791810	CO
Aroclor 1260	774899	791810	CO
Aroclor 1260	774899	791810	CO
Aroclor 1260	774899	791810	CO
Aroclor 1260	774899	791810	CO
Tetrachloro-m-xylene	9735669	9735669	
Decachlorobiphenyl	8977482	8977482	

==========

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

Date Received: 06/14/2017 09:50

Matrix: Tissue SDG No.: 40151613

Date Extracted: 03/28/2018 08:09

Lab Sample ID: 1664796

Date Analyzed: 03/30/2018 19:29

Lab File ID: 033018.B\033018018.D

Initial wt/vol: 9.9864 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	J
11097-69-1	PCB-1254 (Aroclor 1254)	16.6	J
11096-82-5	PCB-1260 (Aroclor 1260)	36.6	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018018.D
Lab Smp Id: 1664796 Client Smp ID: FD1-170613-01-SMB-0
Inj Date : 30-MAR-2018 19:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664796,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.986	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	12944	10574	0.817	0.04		
2.011	13444	8681	0.646	0.04		
2.198	60172	35834	0.596	0.19		
2.292	12900	11207	0.869	0.04		
2.485	10040509	9569819	0.953	33.11	$ 2 Tetrachloro-m-xylene	
2.785	19285	16836	0.873	0.06		
2.974	27524	16240	0.590	0.08		
3.019	16500	15790	0.957	0.05		
3.826	27221	15431	0.567	0.08		
4.217	34555	32900	0.952	0.11		
4.240	21902	23265	1.062	0.07		
4.263	34599	33311	0.963	0.11	6 Aroclor 1248	CO
4.295	39512	27580	0.698	0.12		
4.416	28414	21201	0.746	0.09		
4.449	23557	17069	0.725	0.07		
4.507	20135	15784	0.784	0.06		
4.545	56914	41668	0.732	0.18	6 Aroclor 1248	CO
4.603	19661	13086	0.666	0.06		
4.766	43411	34448	0.794	0.14		
4.814	70620	62923	0.891	0.22	6 Aroclor 1248	CO
4.848	52421	46376	0.885	0.17		
4.880	173800	107205	0.617	0.56	6 Aroclor 1248	CO
4.957	27315	19998	0.732	0.08		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.038	59214	53111	0.897	0.19	6 Aroclor 1248
5.060	13433	14325	1.066	0.04	
5.100	75921	51760	0.682	0.24	
5.163	209328	185546	0.886	0.68	7 Aroclor 1254
5.212	160886	142694	0.887	0.52	
5.277	22904	18843	0.823	0.07	
5.312	75580	68622	0.908	0.24	
5.363	71452	51351	0.719	0.23	
5.406	117445	102149	0.870	0.38	7 Aroclor 1254
5.451	729105	682609	0.936	2.37	
5.509	181446	153656	0.847	0.59	7 Aroclor 1254
5.574	24582	19388	0.789	0.08	
5.606	30856	21167	0.686	0.10	
5.675	106324	94832	0.892	0.34	
5.711	71244	40480	0.568	0.23	
5.741	55194	43251	0.784	0.17	
5.788	549660	444159	0.808	1.78	
5.820	34926	38801	1.111	0.11	
5.890	51876	30064	0.580	0.16	
5.930	26094	21538	0.825	0.08	
5.992	134206	131462	0.980	0.43	
6.025	202882	178776	0.881	0.66	7 Aroclor 1254
6.055	744924	655723	0.880	2.42	
6.167	222183	158842	0.715	0.72	
6.228	37684	48032	1.275	0.12	
6.244	89464	59769	0.668	0.29	
6.300	793790	659264	0.831	2.58	8 Aroclor 1260
6.332	92082	81939	0.890	0.29	
6.371	32332	29442	0.911	0.10	
6.433	100200	78855	0.787	0.32	
6.510	510935	477125	0.934	1.66	
6.535	134210	132315	0.986	0.43	
6.560	167247	150489	0.900	0.54	
6.606	26072	22682	0.870	0.08	
6.660	54662	48423	0.886	0.17	
6.717	248479	219660	0.884	0.80	
6.758	188961	167802	0.888	0.61	
6.801	136976	125959	0.920	0.44	
6.837	63083	52567	0.833	0.20	
6.910	20324	20599	1.014	0.06	
6.942	312277	289098	0.926	1.01	
7.004	820420	737807	0.899	2.67	8 Aroclor 1260
7.034	57017	58498	1.026	0.18	
7.100	18501	21532	1.164	0.06	
7.122	35073	25103	0.716	0.11	
7.251	239755	208070	0.868	0.78	8 Aroclor 1260
7.281	103198	73689	0.714	0.33	
7.338	17040	13113	0.770	0.05	
7.389	248511	211800	0.852	0.80	
7.441	211920	182779	0.862	0.69	8 Aroclor 1260
7.581	14058	12203	0.868	0.04	
7.690	70798	65730	0.928	0.23	
7.725	52212	45070	0.863	0.17	
7.762	24570	19446	0.791	0.08	
7.811	111307	92865	0.834	0.36	
7.899	186846	160203	0.857	0.60	8 Aroclor 1260
7.954	36631	25756	0.703	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.048	253311	227337	0.897	0.82	
8.273	120901	105953	0.876	0.39	
8.378	26080	21000	0.805	0.08	
8.570	9836145	8425817	0.857	32.02	$ 12 Decachlorobiphenyl
8.639	31713	21028	0.663	0.10	
8.725	68880	41763	0.606	0.22	
8.941	13431	9142	0.681	0.04	
9.053	41758	30382	0.728	0.13	
9.168	193946	163399	0.842	0.63	
9.965	18067	13485	0.746	0.05	
	30709852	27277365		100.000	

Total unknown % area = 24

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018018.D
Lab Smp Id: 1664796 Client Smp ID: FD1-170613-01-SMB-0
Inj Date : 30-MAR-2018 19:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1664796,
Misc Info : 17591,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\033018.b\pcba030618.m
Meth Date : 05-Apr-2018 14:48 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.986	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	10040508	0.08143	41			
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			
4.262	4.261	0.001	34599	0.01477	7.4	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	56914	0.01371	6.9	0.00- 20.00	164.50	CO
4.813	4.812	0.001	70620	0.03479	17	0.00- 20.00	204.11	CO
4.879	4.879	0.000	173800	0.03450	17	0.00- 20.00	502.33	CO
5.037	5.038	-0.001	59214	0.01650	8.3	0.00- 20.00	171.14	CO
Average of Peak Concentrations =					11			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	209327	0.03998	20	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	117445	0.02731	14	0.00- 20.00	56.11	BA
5.508	5.510	-0.002	181446	0.02336	12	0.00- 20.00	86.68	BA
6.024	6.027	-0.003	202882	0.04166	21	0.00- 20.00	96.92	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					16			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	793789	0.08957	45	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	820420	0.08192	41	0.00- 20.00	103.35	CO
7.250	7.251	-0.001	239754	0.05016	25	0.00- 20.00	30.20	CO
7.441	7.443	-0.002	211919	0.07270	36	0.00- 20.00	26.70	CO
7.899	7.901	-0.002	186845	0.07081	35	0.00- 20.00	23.54	CO
Average of Peak Concentrations =					36			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9836145	0.08978	45			

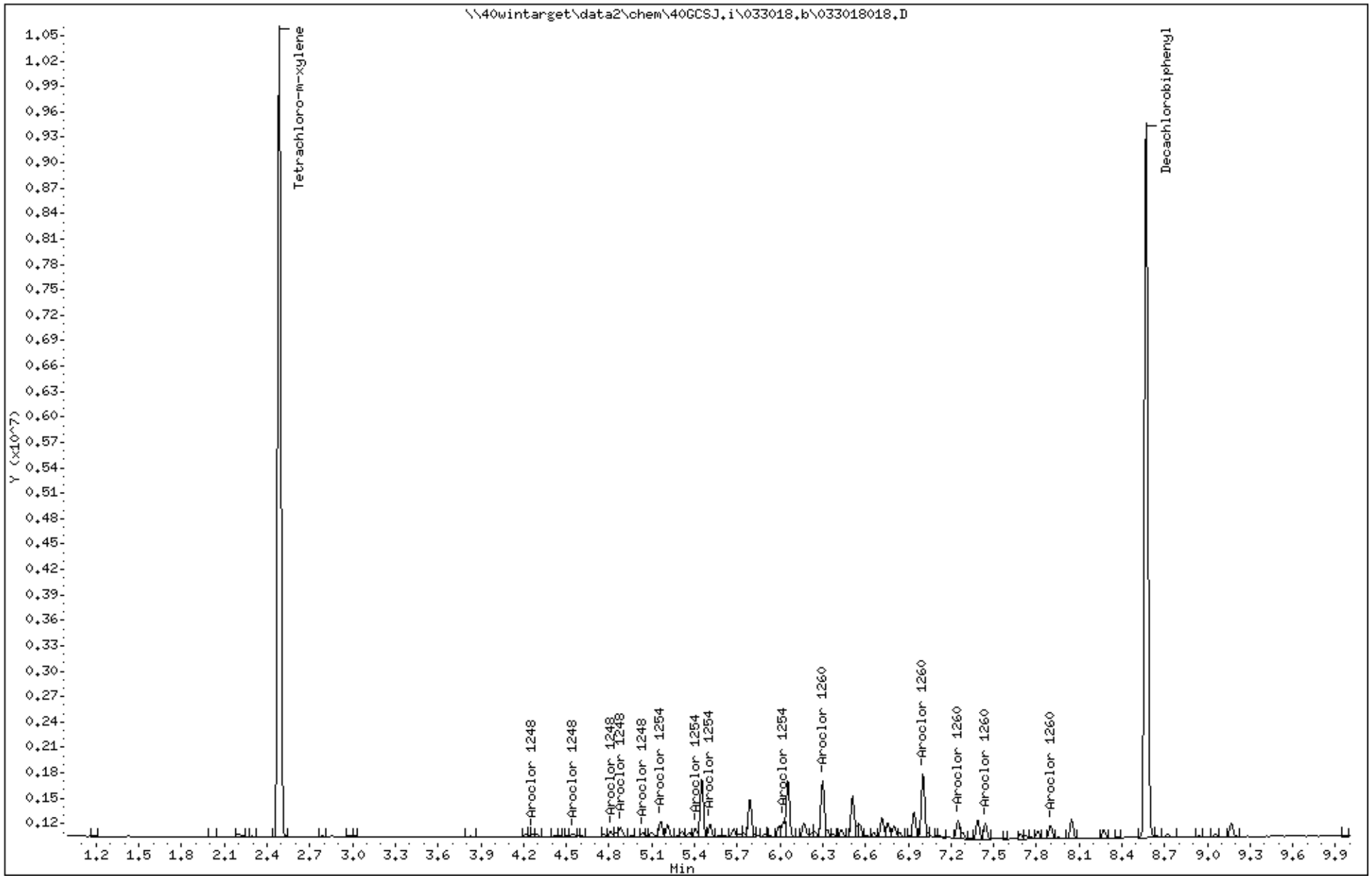
QC Flag Legend

M - Compound response manually integrated.

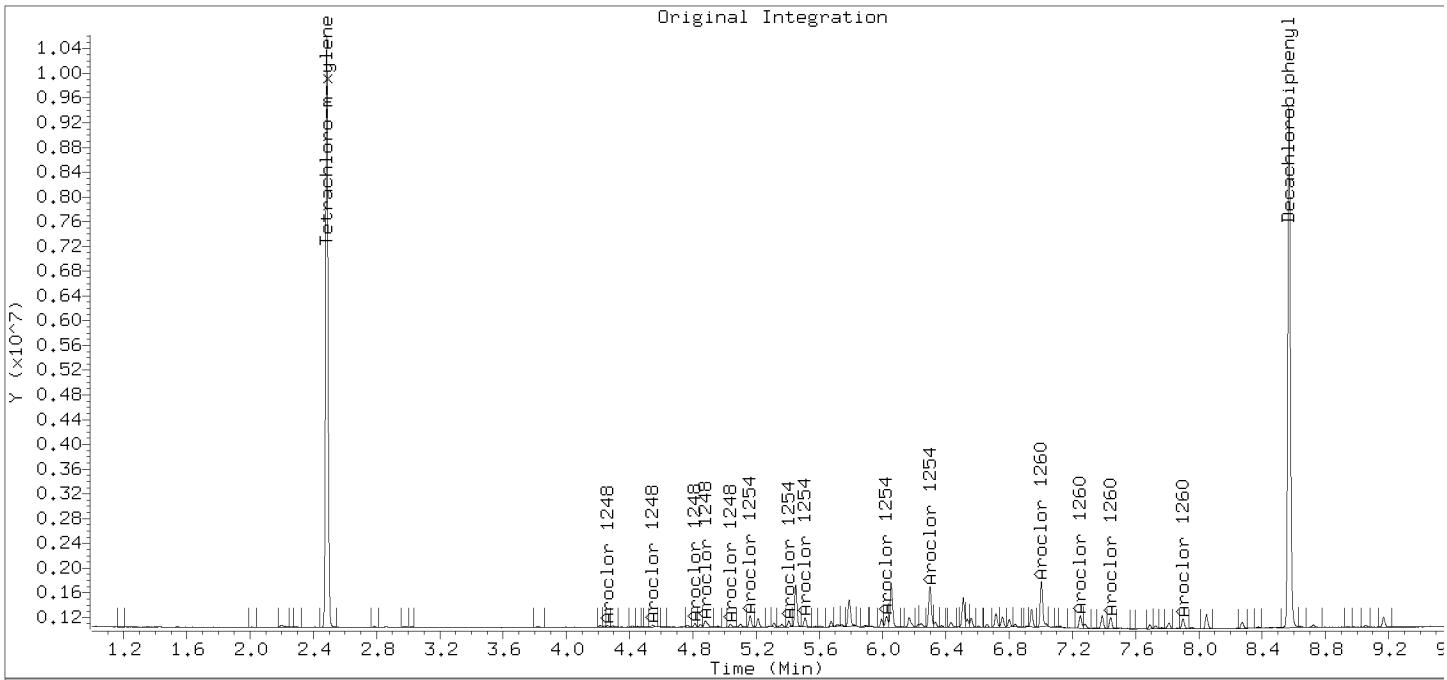
Review Codes Legend

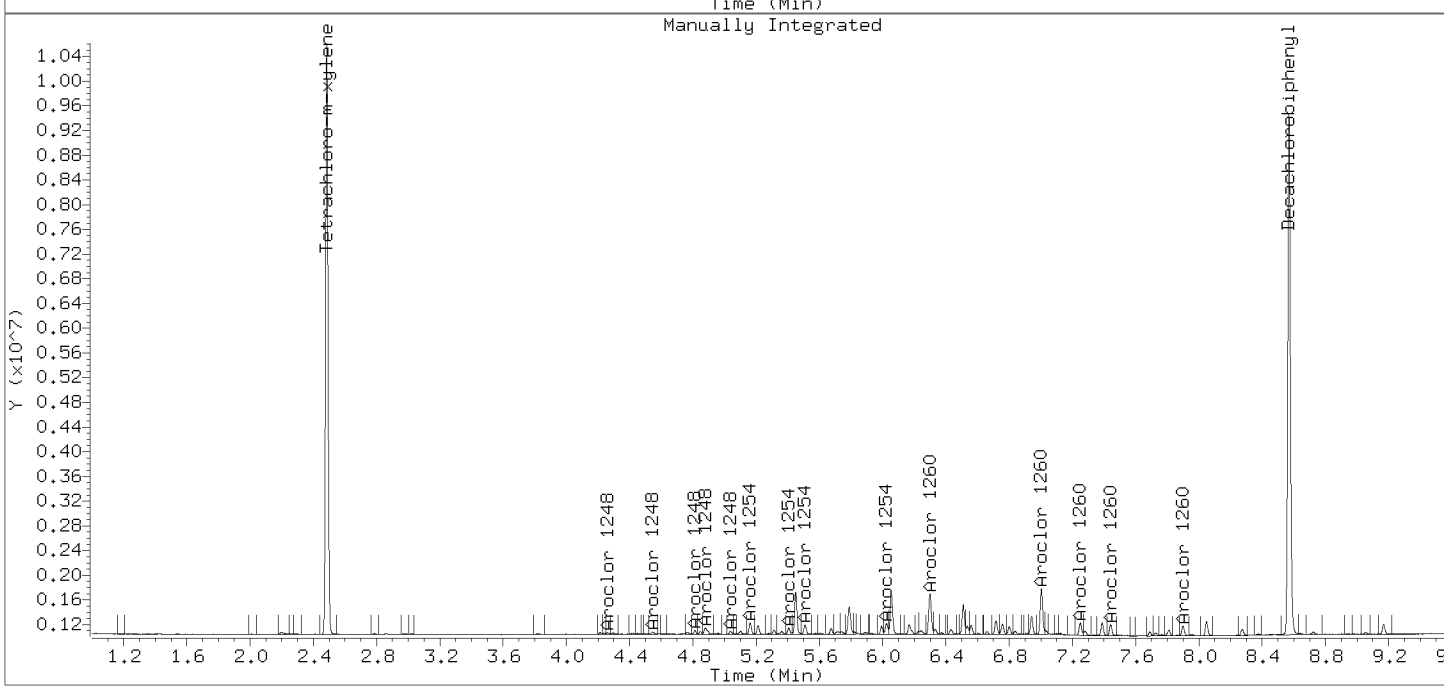
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b\033018018.D
Date : 30-MAR-2018 19:29
Client ID: FD1-170613-01-SMB-0
Instrument: 40GCSJ.i
Sample Info: 1664796,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\033018.b/033018018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 30-MAR-2018 19:29 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1664796





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	34599	CO
Aroclor 1248	0	34599	CO
Aroclor 1248	0	34599	CO
Aroclor 1248	0	34599	CO
Aroclor 1248	0	34599	CO
Aroclor 1254	196249	209327	BA
Aroclor 1254	196249	209327	BA
Aroclor 1254	196249	209327	BA
Aroclor 1254	196249	209327	BA
Aroclor 1254	196249	209327	BA
Aroclor 1260	789692	793789	CO
Aroclor 1260	789692	793789	CO
Aroclor 1260	789692	793789	CO
Aroclor 1260	789692	793789	CO
Aroclor 1260	789692	793789	CO
Tetrachloro-m-xylene	10040508	10040508	
Decachlorobiphenyl	9836145	9836145	

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Prep Log Report

Batch Information: OEXT 283333 PCB-B

Template Version: F-GB-O-113-Rev.04 (14Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/15/2018 07:20:42:294
Spiked By	AMC	Spiked By Date/Time	03/15/2018 07:20:44:518	Witnessed By	ETB	Witnessed By Date/Time	03/15/2018 07:20:44:518
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	191350	Hexane	188917	Sodium Sulfate	188340	Florisil	186910
3620B Date/Initials	3/16/18 AMC	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	3/16/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/02/2018 13:37	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	**1659195**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1659196**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	RQS	**40151605003**	9.9854	5	3		189973 (.25)	
8082A TNYP	MS	**1659197**	9.9825	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1659198**	9.9798	5	3		189973 (.25)	
8082A TNYP	PS	**40151608003**	9.995	5	3		189973 (.25)	
8082A TNYP	PS	**40151608004**	9.962	5	3		189973 (.25)	
8082A TNYP	PS	**40151608005**	10.0132	5	3		189973 (.25)	
8082A TNYP	PS	**40151608006**	10.0204	5	3		189973 (.25)	
8082A TNYP	PS	**40151608007**	10.0055	5	3		189973 (.25)	
8082A TNYP	PS	**40151608008**	9.9887	5	3		189973 (.25)	
8082A TNYP	PS	**40151608009**	10.0256	5	3		189973 (.25)	
8082A TNYP	RQS	**40151608010**	9.9644	5	3		189973 (.25)	
8082A TNYP	DUP	**1659199**	9.9659	5	3		189973 (.25)	
8082A TNYP	PS	**40151613003**	10.0158	5	3		189973 (.25)	
8082A TNYP	RQS	**40151613004**	10.0098	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	DUP	**1659200**	9.9907	5	3		189973 (.25)	
8082A TNYP	PS	**40151613005**	10.0111	5	3		189973 (.25)	
8082A TNYP	PS	**40151613006**	9.9764	5	3		189973 (.25)	
8082A TNYP	PS	**40151613007**	9.9934	5	3		189973 (.25)	
8082A TNYP	PS	**40151613008**	9.988	5	3		189973 (.25)	
8082A TNYP	PS	**40151613009**	9.9814	5	3		189973 (.25)	
8082A TNYP	PS	**40151613010**	9.9935	5	3		189973 (.25)	
8082A TNYP	PS	**40151613011**	10.0298	5	3		189973 (.25)	

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

Prep Log Report

Batch Information: OEXT 284104 PCB-B

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

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/23/2018 07:10:18:493
Spiked By	AMC	Spiked By Date/Time	03/23/2018 07:10:19:533	Witnessed By	ETB	Witnessed By Date/Time	03/23/2018 07:10:19:533
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	192185	Hexane	188917	Sodium Sulfate	190953	Florisil	186910
3620B Date/Initials	3/27/18 AMC	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	3/27/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/04/2018 12:51	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	**1662965**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1662966**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40151613012**	9.978	5	3		189973 (.25)	
8082A TNYP	DUP	**1662967**	9.9887	5	3		189973 (.25)	
8082A TNYP	PS	**40151613013**	9.974	5	3		189973 (.25)	
8082A TNYP	PS	**40151614006**	9.9847	5	3		189973 (.25)	
8082A TNYP	PS	**40151614009**	10.0068	5	3		189973 (.25)	
8082A TNYP	PS	**40151614010**	9.9903	5	3		189973 (.25)	
8082A TNYP	PS	**40151616002**	10.0303	5	3		189973 (.25)	
8082A TNYP	PS	**40151616003**	9.964	5	3		189973 (.25)	
8082A TNYP	PS	**40151616004**	9.9633	5	3		189973 (.25)	
8082A TNYP	PS	**40151616005**	9.9603	5	3		189973 (.25)	
8082A TNYP	PS	**40151616006**	10.0159	5	3		189973 (.25)	
8082A TNYP	PS	**40151616007**	9.9618	5	3		189973 (.25)	
8082A TNYP	PS	**40151616008**	10.0254	5	3		189973 (.25)	
8082A TNYP	PS	**40151616009**	9.9761	5	3		189973 (.25)	

Prep Log Report

40151613

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	RQS	**40151616010**	9.9941	5	3		189973 (.25)	
8082A TNYP	MS	**1662968**	9.965	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1662969**	9.9982	5	3		189973 (.25)	
8082A TNYP	PS	**40151802006**	9.9966	5	3		189973 (.25)	
8082A TNYP	PS	**40151805002**	9.9823	5	3		189973 (.25)	

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

Prep Log Report

Batch Information: OEXT 284454 PCB-B

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

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/28/2018 08:09:30:539
Spiked By	AMC	Spiked By Date/Time	03/28/2018 08:09:31:564	Witnessed By	ETB	Witnessed By Date/Time	03/28/2018 08:09:35:108
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	192488	Hexane	188917	Sodium Sulfate	190953	Florisil	186910
3620B Date/Initials	03/29/18 ETB	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	03/29/18 ETB	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/06/2018 08:50	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	**1664793**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1664794**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40151549001**	10.0051	5	3		189973 (.25)	
8082A TNYP	PS	**40151601001**	10.0134	5	3		189973 (.25)	
8082A TNYP	PS	**40151613001**	9.9785	5	3		189973 (.25)	
8082A TNYP	MS	**1664795**	9.9787	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1664796**	9.9864	5	3		189973 (.25)	
8082A TNYP	PS	**40151613002**	9.9976	5	3		189973 (.25)	
8082A TNYP	PS	**40151614002**	10.0031	5	3		189973 (.25)	
8082A TNYP	PS	**40151614003**	9.9906	5	3		189973 (.25)	
8082A TNYP	PS	**40151614004**	9.986	5	3		189973 (.25)	
8082A TNYP	PS	**40151613014**	10	5	3		189973 (.25)	
8082A TNYP	PS	**40151800005**	10.0085	5	3		189973 (.25)	
8082A TNYP	PS	**40151802001**	9.9815	5	3		189973 (.25)	
8082A TNYP	PS	**40151802002**	9.994	5	2.5	1*	189973 (.25)	
8082A TNYP	PS	**40151802003**	9.9604	5	3		189973 (.25)	

Prep Log Report

40151613

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	**40151802004**	10.0221	5	3		189973 (.25)	
8082A TNYP	PS	**40151802005**	9.9766	5	3		189973 (.25)	
8082A TNYP	PS	**40151805001**	10.0137	5	3		189973 (.25)	
8082A TNYP	PS	**40157825001**	9.9773	5	3		189973 (.25)	
8082A TNYP	DUP	**1664809**	10.019	5	3		189973 (.25)	

Sample Notes:

1*: An extra half a mL was added to the lipids tin so the delivered volumes is 0.5mL lower than usual. AMC 4/6/18

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

```
    Sequence Name: C:\msdchem\1\sequence\031618.s
          Comment:
         Operator:
        Data Path: C:\MSDCHEM\1\DATA\031618\
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  1659195MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1659196LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1659197MS —
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  40151605-003 —
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  1659198DUP —
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40151608-003 x2
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40151608-004 x2
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40151608-005 x4
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40151608-006 x2
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40151608-007 —
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40151608-008 x5
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40151608-009 x2
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40151608-010 —
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  1659199DUP —
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40151613-003 —
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40151613-004 —
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  1659200DUP —
     Datafile          --------

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Signed 3/26/18 Date Signed 3/26/18 Date

```
      Method                SCREEN2014
20)   Sample        20      40151613-005
      Datafile              --------
      Method                SCREEN2014
21)   RearSamp      21      40151613-006
      Datafile              --------
      Method                SCREEN2014
22)   Sample        22      40151613-007
      Datafile              --------
      Method                SCREEN2014
23)   RearSamp      23      40151613-008
      Datafile              --------
      Method                SCREEN2014
24)   Sample        24      40151613-009
      Datafile              --------
      Method                SCREEN2014
25)   RearSamp      25      40151613-010
      Datafile              --------
      Method                SCREEN2014
26)   Sample        26      40151613-011
      Datafile              --------
      Method                SCREEN2014
```

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Read and Understood By

Signed 3/26/18 Date Signed 3/26/18 Date

```
   Sequence Name: C:\msdchem\1\sequence\032718.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\032718\
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  1662965MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1662966LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1662968MS x 2
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  40151613-012 —
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  1662967DUP —
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40151613-013 —
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40151614-006 x 3
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40151614-009 x 2
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40151614-010 —
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40151616-002 x 10
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40151616-003 x 3
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40151616-004 x 5
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40151616-005 —
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40151616-006 x 10
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40151616-007 x 5
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40151616-008 x 2
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40151616-009 x 5
     Datafile          --------

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Signed 4/3/18 Date

Signed 4-3-18 Date

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```
      Method                SCREEN2014
20) Sample          20      40151616-010 x4 x2
      Datafile              --------
      Method                SCREEN2014
21) RearSamp        21      1662969DUP x 2
      Datafile              --------
      Method                SCREEN2014
22) Sample          22      40151802-006 —
      Datafile              --------
      Method                SCREEN2014
23) RearSamp        23      40151805-002 —
      Datafile              --------
      Method                SCREEN2014
24) Sample          24      HEXANE
      Datafile              --------
      Method                SCREEN2014
```

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Continued on Page —

Read and Understood By

Signed: Beryl Meyer Date: 4/3/18

Signed: Dawn Haag Date: 4-3-18

```
   Sequence Name: C:\msdchem\1\sequence\033018.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\033018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile          --------
     Method            SCREEN2014
 2) Sample          2  HEXANE
     Datafile          --------
     Method            SCREEN2014
 3) RearSamp        3  1664793MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1664794LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1664795MS —
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  40151549-001 x3
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40151601-001 —
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40151613-001 —
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  1664796DUP —
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40151613-002 —
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40151614-002 x2
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40151614-003 x3
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40151614-004 —
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40151613-014 —
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40151800-005 —
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40151802-001 —
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40151802-002 —
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40151802-003 —
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40151802-004 —
     Datafile          --------

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

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```

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Read and Understood By

Signed: Bryan Mayl Date: 4/3/18 Signed: Dawn Nagy Date: 4-3-18

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

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

GE BIOTA

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

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Bryan Meyl — Signed — 4/3/18 — Date

Dawn Haag — Signed — 4-3-18 — Date

```
   Sequence Name: C:\msdchem\1\sequence\030618.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\030618\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Unlinked
 2) RearSamp        1  prime
     Datafile          030618001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          030618002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          030618003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          030618004
     Method            GEBIOTA2017
 6) RearSamp        5  1232-CAL3S,185539:1,17499,NSA
     Datafile          030618005
     Method            GEBIOTA2017
 7) Sample          4  HEXANE
     Datafile          030618006
     Method            GEBIOTA2017
 8) RearSamp        6  1221-CAL1F,188138:1,17499,NSA
     Datafile          030618007
     Method            GEBIOTA2017
 9) Sample          5  1232-CAL3S,185539:1,17498,NSA
     Datafile          030618008
     Method            GEBIOTA2017
10) RearSamp        7  1221-CAL2F,188139:1,17499,NSA
     Datafile          030618009
     Method            GEBIOTA2017
11) Sample          6  1221-CAL1F,188138:1,17498,NSA
     Datafile          030618010
     Method            GEBIOTA2017
12) RearSamp        8  1221-CAL3F,185538:1,17499,NSA
     Datafile          030618011
     Method            GEBIOTA2017
13) Sample          7  1221-CAL2F,188139:1,17498,NSA
     Datafile          030618012
     Method            GEBIOTA2017
14) RearSamp        9  1221-CAL4F,188140:1,17499,NSA
     Datafile          030618013
     Method            GEBIOTA2017
15) Sample          8  1221-CAL3F,185538:1,17498,NSA
     Datafile          030618014
     Method            GEBIOTA2017
16) RearSamp       10  1221-CAL5F,188141:1,17499,NSA
     Datafile          030618015
     Method            GEBIOTA2017
17) Sample          9  1221-CAL4F,188140:1,17498,NSA
     Datafile          030618016
     Method            GEBIOTA2017
18) RearSamp       11  HEXANE
     Datafile          030618017
     Method            GEBIOTA2017
19) Sample         10  1221-CAL5F,188141:1,17498,NSA
     Datafile          030618018
     Method            GEBIOTA2017
20) RearSamp       12  1242-CAL1B,188132:1,17499,NSA

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```

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```
      Datafile          030618019
      Method            GEBIOTA2017
21) Sample        11    HEXANE
      Datafile          030618020
      Method            GEBIOTA2017
22) RearSamp      13    1242-CAL2B,185543:1,17499,NSA
      Datafile          030618021
      Method            GEBIOTA2017
23) Sample        12    1242-CAL1B,188132:1,17498,NSA
      Datafile          030618022
      Method            GEBIOTA2017
24) RearSamp      14    1242-CAL3B,185544:1,17499,NSA
      Datafile          030618023
      Method            GEBIOTA2017
25) Sample        13    1242-CAL2B,185543:1,17498,NSA
      Datafile          030618024
      Method            GEBIOTA2017
26) RearSamp      15    1242-CAL4B,185545:1,17499,NSA
      Datafile          030618025
      Method            GEBIOTA2017
27) Sample        14    1242-CAL3B,185544:1,17498,NSA
      Datafile          030618026
      Method            GEBIOTA2017
28) RearSamp      16    1242-CAL5B,185546:1,17499,NSA
      Datafile          030618027
      Method            GEBIOTA2017
29) Sample        15    1242-CAL4B,185545:1,17498,NSA
      Datafile          030618028
      Method            GEBIOTA2017
30) RearSamp      17    HEXANE
      Datafile          030618029
      Method            GEBIOTA2017
31) Sample        16    1242-CAL5B,185546:1,17498,NSA
      Datafile          030618030
      Method            GEBIOTA2017
32) RearSamp      18    1248-CAL1D,188134:1,17499,NSA
      Datafile          030618031
      Method            GEBIOTA2017
33) Sample        17    HEXANE
      Datafile          030618032
      Method            GEBIOTA2017
34) RearSamp      19    1248-CAL2D,185548:1,17499,NSA
      Datafile          030618033
      Method            GEBIOTA2017
35) Sample        18    1248-CAL1D,188134:1,17498,NSA
      Datafile          030618034
      Method            GEBIOTA2017
36) RearSamp      20    1248-CAL3D,185549:1,17499,NSA
      Datafile          030618035
      Method            GEBIOTA2017
37) Sample        19    1248-CAL2D,185548:1,17498,NSA
      Datafile          030618036
      Method            GEBIOTA2017
38) RearSamp      21    1248-CAL4D,185550:1,17499,NSA
      Datafile          030618037
      Method            GEBIOTA2017
39) Sample        20    1248-CAL3D,185549:1,17498,NSA
      Datafile          030618038
      Method            GEBIOTA2017
40) RearSamp      22    1248-CAL5D,185551:1,17499,NSA
      Datafile          030618039
      Method            GEBIOTA2017
41) Sample        21    1248-CAL4D,185550:1,17498,NSA
      Datafile          030618040
      Method            GEBIOTA2017
42) RearSamp      23    HEXANE
      Datafile          030618041
      Method            GEBIOTA2017
43) Sample        22    1248-CAL5D,185551:1,17498,NSA
      Datafile          030618042
      Method            GEBIOTA2017

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Sequence Name: C:\msdchem\1\sequence\030618.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	24	1254-CAL1C,188135:1,17499,NSA		
	Datafile		030618043		
	Method		GEBIOTA2017		
45)	Sample	23	HEXANE		
	Datafile		030618044		
	Method		GEBIOTA2017		
46)	RearSamp	25	1254-CAL2C,185553:1,17499,NSA		
	Datafile		030618045		
	Method		GEBIOTA2017		
47)	Sample	24	1254-CAL1C,188135:1,17498,NSA		
	Datafile		030618046		
	Method		GEBIOTA2017		
48)	RearSamp	26	1254-CAL3C,185554:1,17499,NSA		
	Datafile		030618047		
	Method		GEBIOTA2017		
49)	Sample	25	1254-CAL2C,185553:1,17498,NSA		
	Datafile		030618048		
	Method		GEBIOTA2017		
50)	RearSamp	27	1254-CAL4C,185555:1,17499,NSA		
	Datafile		030618049		
	Method		GEBIOTA2017		
51)	Sample	26	1254-CAL3C,185554:1,17498,NSA		
	Datafile		030618050		
	Method		GEBIOTA2017		
52)	RearSamp	28	1254-CAL5C,185556:1,17499,NSA		
	Datafile		030618051		
	Method		GEBIOTA2017		
53)	Sample	27	1254-CAL4C,185555:1,17498,NSA		
	Datafile		030618052		
	Method		GEBIOTA2017		
54)	RearSamp	29	HEXANE		
	Datafile		030618053		
	Method		GEBIOTA2017		
55)	Sample	28	1254-CAL5C,185556:1,17498,NSA		
	Datafile		030618054		
	Method		GEBIOTA2017		
56)	RearSamp	30	1660-CAL1A,188136:1,17499,AR1		
	Datafile		030618055		
	Method		GEBIOTA2017		
57)	Sample	29	HEXANE		
	Datafile		030618056		
	Method		GEBIOTA2017		
58)	RearSamp	31	1660-CAL2A,185558:1,17499,AR1		
	Datafile		030618057		
	Method		GEBIOTA2017		
59)	Sample	30	1660-CAL1A,188136:1,17498,AR1		
	Datafile		030618058		
	Method		GEBIOTA2017		
60)	RearSamp	32	1660-CAL3A,185559:1,17499,AR1		
	Datafile		030618059		
	Method		GEBIOTA2017		
61)	Sample	31	1660-CAL2A,185558:1,17498,AR1		
	Datafile		030618060		
	Method		GEBIOTA2017		
62)	RearSamp	33	1660-CAL4A,185560:1,17499,AR1		
	Datafile		030618061		
	Method		GEBIOTA2017		
63)	Sample	32	1660-CAL3A,185559:1,17498,AR1		
	Datafile		030618062		
	Method		GEBIOTA2017		
64)	RearSamp	34	1660-CAL5A,185561:1,17499,AR1		
	Datafile		030618063		
	Method		GEBIOTA2017		
65)	Sample	33	1660-CAL4A,185560:1,17498,AR1		
	Datafile		030618064		
	Method		GEBIOTA2017		
66)	RearSamp	35	HEXANE		
	Datafile		030618065		

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```
      Method                GEBIOTA2017
67) Sample          34  1660-CAL5A,185561:1,17498,AR1
      Datafile            030618066
      Method              GEBIOTA2017
68) RearSamp        36  1221-ICV,188142:1,17499,AR122
      Datafile            030618067
      Method              GEBIOTA2017
69) Sample          35  HEXANE
      Datafile            030618068
      Method              GEBIOTA2017
70) RearSamp        37  1242-ICV,185562:1,17499,AR124 OK
      Datafile            030618069
      Method              GEBIOTA2017
71) Sample          36  1221-ICV,188142:1,17498,AR122 OK
      Datafile            030618070
      Method              GEBIOTA2017
72) RearSamp        38  1248-ICV,185563:1,17499,AR124 OK
      Datafile            030618071
      Method              GEBIOTA2017
73) Sample          37  1242-ICV,185562:1,17498,AR124 OK
      Datafile            030618072
      Method              GEBIOTA2017
74) RearSamp        39  1254-ICV,185564:1,17499,AR125 OK
      Datafile            030618073
      Method              GEBIOTA2017
75) Sample          38  1248-ICV,185563:1,17498,AR124 OK
      Datafile            030618074
      Method              GEBIOTA2017
76) RearSamp        40  1660-ICV,185565:1,17499,AR166 OK
      Datafile            030618075
      Method              GEBIOTA2017
77) Sample          39  1254-ICV,185564:1,17498,AR125 OK
      Datafile            030618076
      Method              GEBIOTA2017
78) RearSamp        41  1221-CRDL,188138:1,17499,RL12 OK
      Datafile            030618077
      Method              GEBIOTA2017
79) Sample          40  1660-ICV,185565:1,17498,AR166 OK
      Datafile            030618078
      Method              GEBIOTA2017
80) RearSamp        42  1242-CRDL,188132:1,17499,RL12 OK
      Datafile            030618079
      Method              GEBIOTA2017
81) Sample          41  1221-CRDL,188138:1,17498,RL12 OK
      Datafile            030618080
      Method              GEBIOTA2017
82) RearSamp        43  1248-CRDL,188134:1,17499,RL12 OK
      Datafile            030618081
      Method              GEBIOTA2017
83) Sample          42  1242-CRDL,188132:1,17498,RL12 OK
      Datafile            030618082
      Method              GEBIOTA2017
84) RearSamp        44  1254-CRDL,188135:1,17499,RL12 OK
      Datafile            030618083
      Method              GEBIOTA2017
85) Sample          43  1248-CRDL,188134:1,17498,RL12 OK
      Datafile            030618084
      Method              GEBIOTA2017
86) RearSamp        45  1660-CRDL,188136:1,17499,RL16 OK
      Datafile            030618085
      Method              GEBIOTA2017
87) Sample          44  1254-CRDL,188135:1,17498,RL12 OK
      Datafile            030618086
      Method              GEBIOTA2017
88) RearSamp        46  HEXANE
      Datafile            030618087
      Method              GEBIOTA2017
89) Sample          45  1660-CRDL,188136:1,17498,RL16 OK
      Datafile            030618088
      Method              GEBIOTA2017

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

```
     Sequence Name: C:\msdchem\1\sequence\031618.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\031618\
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          031618001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          031618002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          031618003
     Method            GEBIOTA2017
 4) Sample          4  1248-CCV,185549:1,17498,AR124 ok
     Datafile          031618004
     Method            GEBIOTA2017
 5) Sample          5  1248-CCV,185549:1,17498,AR124 ok
     Datafile          031618005
     Method            GEBIOTA2017
 6) Sample          6  1659195,,17532,BIOTA
     Datafile          031618006
     Method            GEBIOTA2017
 7) Sample          7  1659196,,17532,BIOTA
     Datafile          031618007
     Method            GEBIOTA2017
 8) Sample          8  1659197,,17532,BIOTA
     Datafile          031618008
     Method            GEBIOTA2017
 9) Sample          9  40151605003,,17532,BIOTA
     Datafile          031618009
     Method            GEBIOTA2017
10) Sample         10  1659198,,17532,BIOTA
     Datafile          031618010
     Method            GEBIOTA2017
11) Sample         11  40151608003 x2,,17532,BIOTA
     Datafile          031618011
     Method            GEBIOTA2017
12) Sample         12  40151608004 x2,,17532,BIOTA RS
     Datafile          031618012
     Method            GEBIOTA2017
13) Sample         13  40151608005 x4,,17532,BIOTA
     Datafile          031618013
     Method            GEBIOTA2017
14) Sample         14  40151608006 x2,,17532,BIOTA
     Datafile          031618014
     Method            GEBIOTA2017
15) Sample         15  40151608007,,17532,BIOTA RS
     Datafile          031618015
     Method            GEBIOTA2017
16) Sample         16  1254-CCV,185554:1,17498,AR125 ok
     Datafile          031618016
     Method            GEBIOTA2017
17) Sample         17  1254-CCV,185554:1,17498,AR125 ok
     Datafile          031618017
     Method            GEBIOTA2017
18) Sample         18  40151608008 x5,,17532,BIOTA RS
     Datafile          031618018
     Method            GEBIOTA2017
19) Sample         19  40151608009 x2,,17532,BIOTA
     Datafile          031618019

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Bryan Meagl — Signed — 3/26/18 Date

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```
      Method              GEBIOTA2017
20) Sample          20  40151608010,,17532,BIOTA
      Datafile            031618020
      Method              GEBIOTA2017
21) Sample          21  1659199,,17532,BIOTA
      Datafile            031618021
      Method              GEBIOTA2017
22) Sample          22  40151613003,,17532,BIOTA
      Datafile            031618022
      Method              GEBIOTA2017
23) Sample          23  40151613004,,17532,BIOTA
      Datafile            031618023
      Method              GEBIOTA2017
24) Sample          24  1659200,,17532,BIOTA
      Datafile            031618024
      Method              GEBIOTA2017
25) Sample          25  40151613005,,17532,BIOTA
      Datafile            031618025
      Method              GEBIOTA2017
26) Sample          26  40151613006,,17532,BIOTA
      Datafile            031618026
      Method              GEBIOTA2017
27) Sample          27  40151613007,,17532,BIOTA
      Datafile            031618027
      Method              GEBIOTA2017
28) Sample          28  1660-CCV,185559:1,17498,AR166 ok
      Datafile            031618028
      Method              GEBIOTA2017
29) Sample          29  1660-CCV,185559:1,17498,AR166 ok
      Datafile            031618029
      Method              GEBIOTA2017
30) Sample          30  40151613008,,17532,BIOTA
      Datafile            031618030
      Method              GEBIOTA2017
31) Sample          31  40151613009,,17532,BIOTA
      Datafile            031618031
      Method              GEBIOTA2017
32) Sample          32  40151613010,,17532,BIOTA
      Datafile            031618032
      Method              GEBIOTA2017
33) Sample          33  40151613011,,17532,BIOTA
      Datafile            031618033
      Method              GEBIOTA2017
34) Sample          34  1221-CCV,185538:1,17498,AR122 ok
      Datafile            031618034
      Method              GEBIOTA2017
35) Sample          35  1221-CCV,185538:1,17498,AR122 ok
      Datafile            031618035
      Method              GEBIOTA2017
```

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Bryan Mayl — Signed — 3/26/18 Date

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```
     Sequence Name: C:\msdchem\1\sequence\032718.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\032718\
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          032718001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032718002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032718003
     Method            GEBIOTA2017
 4) Sample          4  1221-CCV,185538:1,17498,AR122 OK
     Datafile          032718004
     Method            GEBIOTA2017
 5) Sample          5  1221-CCV,185538:1,17498,AR122 OK
     Datafile          032718005
     Method            GEBIOTA2017
 6) Sample          6  40151549007 x4,,17523,BIOTA
     Datafile          032718006
     Method            GEBIOTA2017
 7) Sample          7  1662165 x2,,17567,BIOTA
     Datafile          032718007
     Method            GEBIOTA2017
 8) Sample          8  40151800001 x2,,17567,BIOTA
     Datafile          032718008
     Method            GEBIOTA2017
 9) Sample          9  40151800003 x3,,17567,BIOTA
     Datafile          032718009
     Method            GEBIOTA2017
10) Sample         10  1662965,,17575,BIOTA
     Datafile          032718010
     Method            GEBIOTA2017
11) Sample         11  ~~1662965~~,,17575,BIOTA 16629606
     Datafile          032718011
     Method            GEBIOTA2017
12) Sample         12  1662968 x2,,17575,BIOTA RS x30
     Datafile          032718012
     Method            GEBIOTA2017
13) Sample         13  40151613012,,17575,BIOTA
     Datafile          032718013
     Method            GEBIOTA2017
14) Sample         14  1662967,,17575,BIOTA
     Datafile          032718014
     Method            GEBIOTA2017
15) Sample         15  40151613013,,17575,BIOTA
     Datafile          032718015
     Method            GEBIOTA2017
16) Sample         16  1232-CCV,185539:1,17498,AR123 OK
     Datafile          032718016
     Method            GEBIOTA2017
17) Sample         17  1232-CCV,185539:1,17498,AR123 OK
     Datafile          032718017
     Method            GEBIOTA2017
18) Sample         18  40151614006 x3,,17575,BIOTA
     Datafile          032718018
     Method            GEBIOTA2017
19) Sample         19  40151614009 x2,,17575,BIOTA
     Datafile          032718019

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```
      Method          GEBIOTA2017
20) Sample      20  40151614010,,17575,BIOTA RS x2
      Datafile        032718020
      Method          GEBIOTA2017
21) Sample      21  40151616002 x10,,17575,BIOTA
      Datafile        032718021
      Method          GEBIOTA2017
22) Sample      22  40151616003 x3,,17575,BIOTA
      Datafile        032718022
      Method          GEBIOTA2017
23) Sample      23  40151616004 x5,,17575,BIOTA
      Datafile        032718023
      Method          GEBIOTA2017
24) Sample      24  40151616005,,17575,BIOTA
      Datafile        032718024
      Method          GEBIOTA2017
25) Sample      25  40151616006 x10,,17575,BIOTA
      Datafile        032718025
      Method          GEBIOTA2017
26) Sample      26  40151616007 x5,,17575,BIOTA RS x15
      Datafile        032718026
      Method          GEBIOTA2017
27) Sample      27  40151616008 x2,,17575,BIOTA
      Datafile        032718027
      Method          GEBIOTA2017
28) Sample      28  1242-CCV,185544:1,17498,AR124 ok
      Datafile        032718028
      Method          GEBIOTA2017
29) Sample      29  1242-CCV,185544:1,17498,AR124 ok
      Datafile        032718029
      Method          GEBIOTA2017
30) Sample      30  40151616009 x5,,17575,BIOTA RS x100
      Datafile        032718030
      Method          GEBIOTA2017
31) Sample      31  40151616010 x2,,17575,BIOTA RS x30
      Datafile        032718031
      Method          GEBIOTA2017
32) Sample      32  1662969 x2,,17575,BIOTA RS x30
      Datafile        032718032
      Method          GEBIOTA2017
33) Sample      33  40151802006,,17575,BIOTA
      Datafile        032718033
      Method          GEBIOTA2017
34) Sample      34  40151805002,,17575,BIOTA
      Datafile        032718034
      Method          GEBIOTA2017
35) Sample      35  1248-CCV,185549:1,17498,AR124 ok
      Datafile        032718035
      Method          GEBIOTA2017
36) Sample      36  1248-CCV,185549:1,17498,AR124 ok
      Datafile        032718036
      Method          GEBIOTA2017
```

Screener Ran: 40GCSI 03/27/18

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BLM 4/3/18

Continued on Page —

Read and Understood By

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

```
   Sequence Name: C:\msdchem\1\sequence\032818.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\032818\
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          032818001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032818002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032818003
     Method            GEBIOTA2017
 4) Sample          4  1254-CCV,185554:1,17498,AR125 OK
     Datafile          032818004
     Method            GEBIOTA2017
 5) Sample          5  1254-CCV,185554:1,17498,AR125 OK
     Datafile          032818005
     Method            GEBIOTA2017
 6) Sample          6  1662968 x30,,17575,BIOTA RS
     Datafile          032818006
     Method            GEBIOTA2017
 7) Sample          7  40151614010 x2,,17575,BIOTA
     Datafile          032818007
     Method            GEBIOTA2017
 8) Sample          8  40151616007 x15,,17575,BIOTA
     Datafile          032818008
     Method            GEBIOTA2017
 9) Sample          9  40151616009 x100,,17575,BIOTA
     Datafile          032818009
     Method            GEBIOTA2017
10) Sample         10  40151616010 x30,,17575,BIOTA RS
     Datafile          032818010
     Method            GEBIOTA2017
11) Sample         11  1662969 x30,,17575,BIOTA
     Datafile          032818011
     Method            GEBIOTA2017
12) Sample         12  1664186,,17584,BIOTA
     Datafile          032818012
     Method            GEBIOTA2017
13) Sample         13  1664187,,17584,BIOTA
     Datafile          032818013
     Method            GEBIOTA2017
14) Sample         14  1664188 x5,,17584,BIOTA
     Datafile          032818014
     Method            GEBIOTA2017
15) Sample         15  40157828001 x3,,17584,BIOTA
     Datafile          032818015
     Method            GEBIOTA2017
16) Sample         16  1660-CCV,185559:1,17498,AR166 OK
     Datafile          032818016
     Method            GEBIOTA2017
17) Sample         17  1660-CCV,185559:1,17498,AR166 OK
     Datafile          032818017
     Method            GEBIOTA2017
18) Sample         18  40157828002 x4,,17584,BIOTA
     Datafile          032818018
     Method            GEBIOTA2017
19) Sample         19  40157828003 x3,,17584,BIOTA
     Datafile          032818019

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```

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Read and Understood By

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

```
      Method          GEBIOTA2017
20) Sample      20  40157828004 x3,,17584,BIOTA
      Datafile        032818020
      Method          GEBIOTA2017
21) Sample      21  40157828005 x2,,17584,BIOTA
      Datafile        032818021
      Method          GEBIOTA2017
22) Sample      22  40157828006 x4,,17584,BIOTA
      Datafile        032818022
      Method          GEBIOTA2017
23) Sample      23  40157828007 x5,,17584,BIOTA
      Datafile        032818023
      Method          GEBIOTA2017
24) Sample      24  40157828008 x3,,17584,BIOTA
      Datafile        032818024
      Method          GEBIOTA2017
25) Sample      25  40157828009 x5,,17584,BIOTA
      Datafile        032818025
      Method          GEBIOTA2017
26) Sample      26  40157828010 x5,,17584,BIOTA RS
      Datafile        032818026
      Method          GEBIOTA2017
27) Sample      27  40157828011 x5,,17584,BIOTA
      Datafile        032818027
      Method          GEBIOTA2017
28) Sample      28  1221-CCV,185538:1,17498,AR122 OK
      Datafile        032818028
      Method          GEBIOTA2017
29) Sample      29  1221-CCV,185538:1,17498,AR122 OK
      Datafile        032818029
      Method          GEBIOTA2017
30) Sample      30  40157828012 x5,,17584,BIOTA
      Datafile        032818030
      Method          GEBIOTA2017
31) Sample      31  40157828013 x5,,17584,BIOTA
      Datafile        032818031
      Method          GEBIOTA2017
32) Sample      32  40157828014 x3,,17584,BIOTA
      Datafile        032818032
      Method          GEBIOTA2017
33) Sample      33  40157828015 x5,,17584,BIOTA
      Datafile        032818033
      Method          GEBIOTA2017
34) Sample      34  40157828016 x5,,17584,BIOTA
      Datafile        032818034
      Method          GEBIOTA2017
35) Sample      35  40157828017 x5,,17584,BIOTA
      Datafile        032818035
      Method          GEBIOTA2017
36) Sample      36  40157828018 x5,,17584,BIOTA
      Datafile        032818036
      Method          GEBIOTA2017
37) Sample      37  1664189 x5,,17584,BIOTA
      Datafile        032818037
      Method          GEBIOTA2017
38) Sample      38  40157828019 x2,,17584,BIOTA RS
      Datafile        032818038
      Method          GEBIOTA2017
39) Sample      39  40157828020 x5,,17584,BIOTA
      Datafile        032818039
      Method          GEBIOTA2017
40) Sample      40  1232-CCV,185539:1,17498,AR123 OK
      Datafile        032818040
      Method          GEBIOTA2017
41) Sample      41  1232-CCV,185539:1,17498,AR123 OK
      Datafile        032818041
      Method          GEBIOTA2017
```

GCSV Batch #17584 HBN: 284488 Screened: 40GCSI 3/28/18

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Read and Understood By

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

```
    Sequence Name: C:\msdchem\1\sequence\033018.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\033018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          033018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          033018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          033018003
     Method            GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 ok
     Datafile          033018004
     Method            GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 ok
     Datafile          033018005
     Method            GEBIOTA2017
 6) Sample          6  1662968 x40,,17575,BIOTA
     Datafile          033018006
     Method            GEBIOTA2017
 7) Sample          7  40151616010 x40,,17575,BIOTA
     Datafile          033018007
     Method            GEBIOTA2017
 8) Sample          8  40157828010 x10,,17584,BIOTA
     Datafile          033018008
     Method            GEBIOTA2017
 9) Sample          9  40157828019 x3,,17584,BIOTA
     Datafile          033018009
     Method            GEBIOTA2017
10) Sample         10  1664793,,17591,BIOTA
     Datafile          033018010
     Method            GEBIOTA2017
11) Sample         11  1664794,,17591,BIOTA
     Datafile          033018011
     Method            GEBIOTA2017
12) Sample         12  1664795,,17591,BIOTA
     Datafile          033018012
     Method            GEBIOTA2017
13) Sample         13  40151549001 x3,,17591,BIOTA
     Datafile          033018013
     Method            GEBIOTA2017
14) Sample         14  40151601001,,17591,BIOTA
     Datafile          033018014
     Method            GEBIOTA2017
15) Sample         15  40151613001,,17591,BIOTA
     Datafile          033018015
     Method            GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 ok
     Datafile          033018016
     Method            GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 ok
     Datafile          033018017
     Method            GEBIOTA2017
18) Sample         18  1664796,,17591,BIOTA
     Datafile          033018018
     Method            GEBIOTA2017
19) Sample         19  40151613002,,17591,BIOTA
     Datafile          033018019

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```

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Read and Understood By

Signed: Bryan Mayl — Date: 4/3/18

Signed: Dawn Haag — Date: 4-3-18

```
      Method              GEBIOTA2017
20) Sample          20  40151614002 x2,,17591,BIOTA
      Datafile            033018020
      Method              GEBIOTA2017
21) Sample          21  40151614003 x3,,17591,BIOTA
      Datafile            033018021
      Method              GEBIOTA2017
22) Sample          22  40151614004,,17591,BIOTA
      Datafile            033018022
      Method              GEBIOTA2017
23) Sample          23  40151613014,,17591,BIOTA
      Datafile            033018023
      Method              GEBIOTA2017
24) Sample          24  40151800005,,17591,BIOTA
      Datafile            033018024
      Method              GEBIOTA2017
25) Sample          25  40151802001,,17591,BIOTA
      Datafile            033018025
      Method              GEBIOTA2017
26) Sample          26  40151802002,,17591,BIOTA
      Datafile            033018026
      Method              GEBIOTA2017
27) Sample          27  40151802003,,17591,BIOTA
      Datafile            033018027
      Method              GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 OK
      Datafile            033018028
      Method              GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 OK
      Datafile            033018029
      Method              GEBIOTA2017
30) Sample          30  40151802004,,17591,BIOTA
      Datafile            033018030
      Method              GEBIOTA2017
31) Sample          31  40151802005,,17591,BIOTA
      Datafile            033018031
      Method              GEBIOTA2017
32) Sample          32  40151805001,,17591,BIOTA
      Datafile            033018032
      Method              GEBIOTA2017
33) Sample          33  40157825001,,17591,BIOTA
      Datafile            033018033
      Method              GEBIOTA2017
34) Sample          34  1664809,,17591,BIOTA
      Datafile            033018034
      Method              GEBIOTA2017
35) Sample          35  1665641,,17602,BIOTA
      Datafile            033018035
      Method              GEBIOTA2017
36) Sample          36  1665642,,17602,BIOTA
      Datafile            033018036
      Method              GEBIOTA2017
37) Sample          37  1665643 x2,,17602,BIOTA
      Datafile            033018037
      Method              GEBIOTA2017
38) Sample          38  40157488001,,17602,BIOTA
      Datafile            033018038
      Method              GEBIOTA2017
39) Sample          39  40157488002 x2,,17602,BIOTA
      Datafile            033018039
      Method              GEBIOTA2017
40) Sample          40  1254-CCV,185554:1,17498,AR125 OK
      Datafile            033018040
      Method              GEBIOTA2017
41) Sample          41  1254-CCV,185554:1,17498,AR125 OK
      Datafile            033018041
      Method              GEBIOTA2017
42) Sample          42  40157488003,,17602,BIOTA
      Datafile            033018042
      Method              GEBIOTA2017
43) Sample          43  40157488004 x3,,17602,BIOTA
      Datafile            033018043
```

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Read and Understood By

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

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

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40157488005,,17602,BIOTA		
	Datafile		033018044		
	Method			GEBIOTA2017	
45)	Sample	45	1665644,,17602,BIOTA		
	Datafile		033018045		
	Method			GEBIOTA2017	
46)	Sample	46	40157489001,,17602,BIOTA		
	Datafile		033018046		
	Method			GEBIOTA2017	
47)	Sample	47	40157489002,,17602,BIOTA		
	Datafile		033018047		
	Method			GEBIOTA2017	
48)	Sample	48	40157489003,,17602,BIOTA		
	Datafile		033018048		
	Method			GEBIOTA2017	
49)	Sample	49	40157489004,,17602,BIOTA		
	Datafile		033018049		
	Method			GEBIOTA2017	
50)	Sample	50	40157489005 x2,,17602,BIOTA		
	Datafile		033018050		
	Method			GEBIOTA2017	
51)	Sample	51	40157825002,,17602,BIOTA		
	Datafile		033018051		
	Method			GEBIOTA2017	
52)	Sample	52	1660-CCV,185559:1,17498,AR166 OK		
	Datafile		033018052		
	Method			GEBIOTA2017	
53)	Sample	53	1660-CCV,185559:1,17498,AR166 OK		
	Datafile		033018053		
	Method			GEBIOTA2017	
54)	Sample	54	40157825003,,17602,BIOTA		
	Datafile		033018054		
	Method			GEBIOTA2017	
55)	Sample	55	40157825004,,17602,BIOTA		
	Datafile		033018055		
	Method			GEBIOTA2017	
56)	Sample	56	40157825005,,17602,BIOTA RS x2		
	Datafile		033018056		
	Method			GEBIOTA2017	
57)	Sample	57	40157825006,,17602,BIOTA		
	Datafile		033018057		
	Method			GEBIOTA2017	
58)	Sample	58	1665645,,17602,BIOTA		
	Datafile		033018058		
	Method			GEBIOTA2017	
59)	Sample	59	40157825007 x2,,17602,BIOTA		
	Datafile		033018059		
	Method			GEBIOTA2017	
60)	Sample	60	40157825008 x3,,17602,BIOTA		
	Datafile		033018060		
	Method			GEBIOTA2017	
61)	Sample	61	40157825009 x5,,17602,BIOTA		
	Datafile		033018061		
	Method			GEBIOTA2017	
62)	Sample	62	40157825010,,17602,BIOTA RS x2		
	Datafile		033018062		
	Method			GEBIOTA2017	
63)	Sample	63	1221-CCV,185538:1,17498,AR122 OK		
	Datafile		033018063		
	Method			GEBIOTA2017	
64)	Sample	64	1221-CCV,185538:1,17498,AR122 OK		
	Datafile		033018064		
	Method			GEBIOTA2017	

GCSV Batch 17591 HBN: 284630 AND 17602 HBN: 284746
Screened: 03/30/18 40GCSJ

Last Modified: Fri Mar 30 14:55:13 2018

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BLM 4/3/18

Continued on Page —

Read and Understood By

Bryan Meyl — Signed — 4/3/18 — Date

Dawn Haag — Signed — 4-3-18 — Date

Standard Log Report

Standards Log Information for Standard #192488

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/28/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/28/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #192488

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

Composed of Information for Standard #192488

Composed of Standard Seq	Volume	Units
189481	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #192185

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/23/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/23/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #192185

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

Composed of Information for Standard #192185

Composed of Standard Seq	Volume	Units
190940	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #191350

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/14/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/14/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #191350

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

Composed of Information for Standard #191350

Composed of Standard Seq	Volume	Units
190948	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #190953

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	03/08/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #190953

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

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

Standard Log Report

Standards Log Information for Standard #190948

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 #190948

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 #190940

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 #190940

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #189973

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	1000 mL	**Lot ID:**	GCSV
Create Date:	02/26/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	08/26/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	8081-SS

Notes:

Pest/PCB Surrogate Spike 40GCSC.i\022618SurrVal.b\A226037 TCMX-116.01% DCB-98.69%

Compound Name and Concentration for Standard #189973

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

Composed of Information for Standard #189973

Composed of Standard Seq	Volume	Units
179366	999	mL
172034	1	mL

Standard Log Report

Standards Log Information for Standard #189481

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	02/19/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #189481

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #188917

STOCK STANDARD

Created By:	ETB	**Volume of Standard:**	215 L	**Lot ID:**	405750
Create Date:	02/12/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	01/15/2019	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed ETB 02/12/18

Compound Name and Concentration for Standard #188917

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #188340

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	02/01/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #188340

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 #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 #188137

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #188137

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL

Composed of Information for Standard #188137

Composed of Standard Seq	Volume	Units
184640	9	mL
179816	1000	uL

Standard Log Report

Standards Log Information for Standard #188136

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL1

Notes:

NY 1660 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188136

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.1 ug/mL	PCB-1260 (Aroclor 1260)	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188136

Composed of Standard Seq	Volume	Units
188129	100	uL
185533	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

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

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

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

Composed of Information for Standard #188135

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

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

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

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

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

Composed of Information for Standard #188134

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

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

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

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

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

Composed of Information for Standard #188132

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

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #188129

Composed of Standard Seq	Volume	Units
185958	1	mL
184640	19	mL

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405706
Create Date:	01/12/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	01/11/2020	**Manufacturer Lot ID:**	174228	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

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

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

Created By:	BLM	**Volume of Standard:**	1 mL	**Lot ID:**	405693
Create Date:	01/02/2018	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	11/30/2023	**Manufacturer Lot ID:**	A0130424	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-ICV

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185565

Composed of Standard Seq	Volume	Units
185537	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-ICV

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185564

Composed of Standard Seq	Volume	Units
185536	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-ICV

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185563

Composed of Standard Seq	Volume	Units
185535	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-ICV

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185562

Composed of Standard Seq	Volume	Units
185534	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL5

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	1 ug/mL	PCB-1260 (Aroclor 1260)	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185561

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL4

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.8 ug/mL	PCB-1260 (Aroclor 1260)	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185560

Composed of Standard Seq	Volume	Units
185533	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

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

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL3

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185554

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL2

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185553

Composed of Standard Seq	Volume	Units
185530	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL5

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185551

Composed of Standard Seq	Volume	Units
185529	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL4

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185550

Composed of Standard Seq	Volume	Units
185529	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL3

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185549

Composed of Standard Seq	Volume	Units
185529	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL2

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185548

Composed of Standard Seq	Volume	Units
185529	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL5

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	1 ug/mL	PCB-1242 (Aroclor 1242)	1 ug/mL
PCB-1242 (Aroclor 1242)-6	1 ug/mL	PCB-1242 (Aroclor 1242)-7	1 ug/mL
PCB-1242 (Aroclor 1242)-8	1 ug/mL	PCB-1242 (Aroclor 1242)-9	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185546

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL4

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

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

Composed of Information for Standard #185545

Composed of Standard Seq	Volume	Units
185528	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL3

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	PCB-1242 (Aroclor 1242)	.5 ug/mL
PCB-1242 (Aroclor 1242)-6	.5 ug/mL	PCB-1242 (Aroclor 1242)-7	.5 ug/mL
PCB-1242 (Aroclor 1242)-8	.5 ug/mL	PCB-1242 (Aroclor 1242)-9	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185544

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL2

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.2 ug/mL	PCB-1242 (Aroclor 1242)	.2 ug/mL
PCB-1242 (Aroclor 1242)-6	.2 ug/mL	PCB-1242 (Aroclor 1242)-7	.2 ug/mL
PCB-1242 (Aroclor 1242)-8	.2 ug/mL	PCB-1242 (Aroclor 1242)-9	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185543

Composed of Standard Seq	Volume	Units
185528	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-CAL3

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1232 (Aroclor 1232)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185539

Composed of Standard Seq	Volume	Units
185527	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL3

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	PCB-1221 (Aroclor 1221)-1	.5 ug/mL
PCB-1221 (Aroclor 1221)-2	.5 ug/mL	PCB-1221 (Aroclor 1221)-3	.5 ug/mL
PCB-1221 (Aroclor 1221)-4	.5 ug/mL	PCB-1232 (Aroclor 1232)-5	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185538

Composed of Standard Seq	Volume	Units
185526	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185537

Composed of Standard Seq	Volume	Units
184640	9	mL
175600	1	mL

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

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185530

Composed of Standard Seq	Volume	Units
184640	9	mL
173182	1000	uL

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

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

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

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 #182336

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	11/09/2017	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	AR1242-SPK

Notes:

Ar1242 Spike @20ug/mL 40GCS9.i\111017spk.b\A110047 96% Recovery

Compound Name and Concentration for Standard #182336

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

Composed of Information for Standard #182336

Composed of Standard Seq	Volume	Units
175728	196	mL
164832	4000	uL

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

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 #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 #175728

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405434
Create Date:	08/10/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	11/10/2018	**Manufacturer Lot ID:**	DS178	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container -

Compound Name and Concentration for Standard #175728

Compound Name	Concentration	Compound Name	Concentration
Acetone	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 #164832

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	25 mL	**Lot ID:**	405214
Create Date:	03/27/2017	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	302694	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #164832

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

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

405214
REC. 03/27/17 BY MRM
Exp. __/__/__ By __

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Date Received: _____

Certificate of Analysis

Rev 0 **Page 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-07	302694	≤ Ambient	Tol.:Hex. 1:1	15-Jan-2021	Aroclor 1242 Solution, 1,000 mg/L, 25 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1002 +/- 5.75	mg/L

Certified By: _____

Dreema Murray

Manufacture Date 17-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 gravimetriclly.

405341
REC. 06/23/17 BY MRN
Exp. --/--/-- By --

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Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130023-15	311236	≤ 6 °C	Tol.:Hex. 1:1	8-Jun-2019	Pesticide Surrogate Solution, 2,000 mg/L, 10 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
decachlorobiphenyl (BZ# 209)	2051-24-3	99.1	301.115.5P	2022 +/- 4.56	mg/L
2,4,5,6-tetrachloro-m-xylene	877-09-8	98.6	300.115.3P	1996 +/- 14.54	mg/L

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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CERTIFIED REFERENCE MATERIAL

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Certificate #3222.01

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 2781200)		+/- 31.9602	µg/mL	Unstressed
	Purity ----%			+/- 41.7506	µg/mL	Stressed

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

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

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

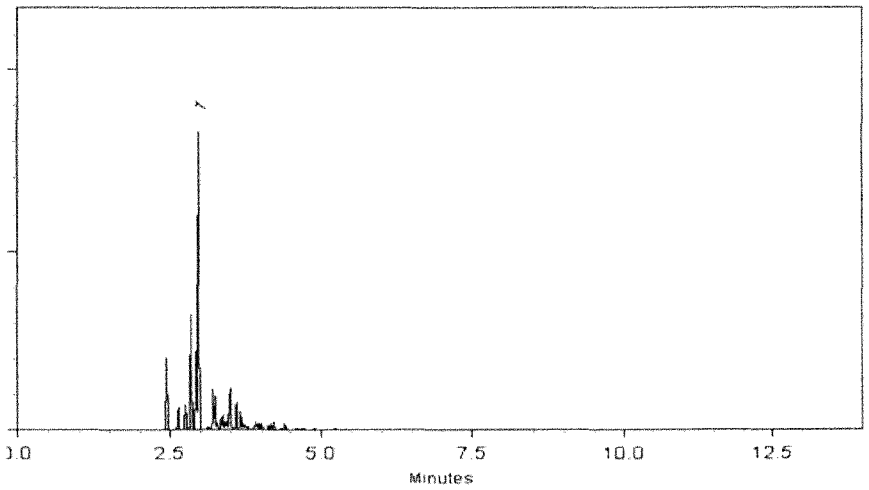
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

Date Mixed: 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

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

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Fax: (814)353-1309

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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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)

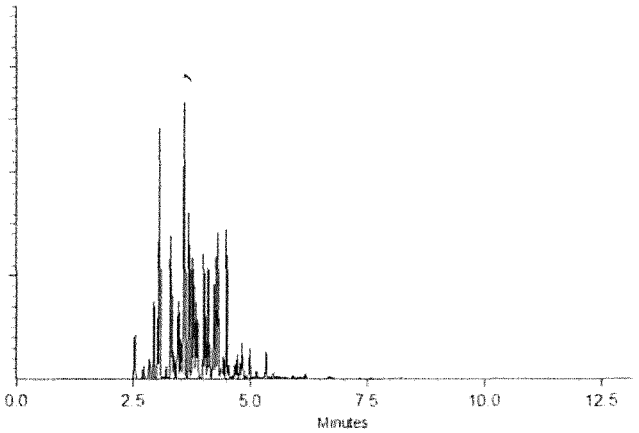
Carrier Gas:
helium-constant pressure 20 psi.

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

Cathleen Soltis - Mix Technician

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

Justine Albertson - Operations Tech:AKM QC

Date Passed: 31-Jan-2017

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Registered Quality System
Certificate #FM 80397

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Fax: (814)353-1309

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32009 **Lot No.:** A0124535

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1242	1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 53469-21-9 (Lot 01141-A)		+/- 31.7706 µg/mL	Unstressed
	Purity ----%		+/- 41.4958 µg/mL	Stressed

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

405370
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

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

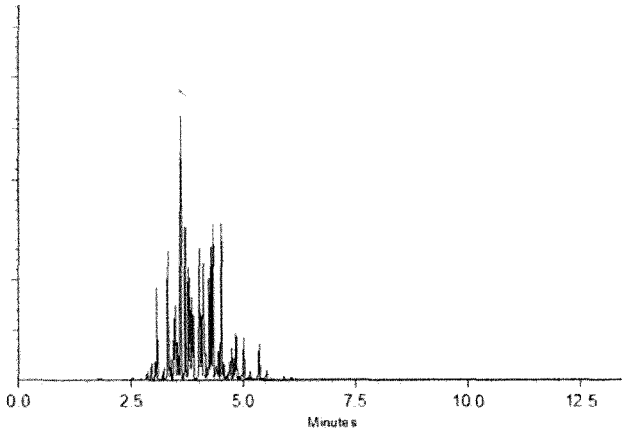
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis - Mix Technician

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

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 **Lot No.:** A0121842

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : December 31, 2022 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	996.8 µg/mL	+/- 5.8498 µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 07)		+/- 31.5925 µg/mL	Unstressed
	Purity ----%		+/- 41.2704 µg/mL	Stressed

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

405371
REC. 07/06/17 BY BDS
Exp. __/__/__ By __

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

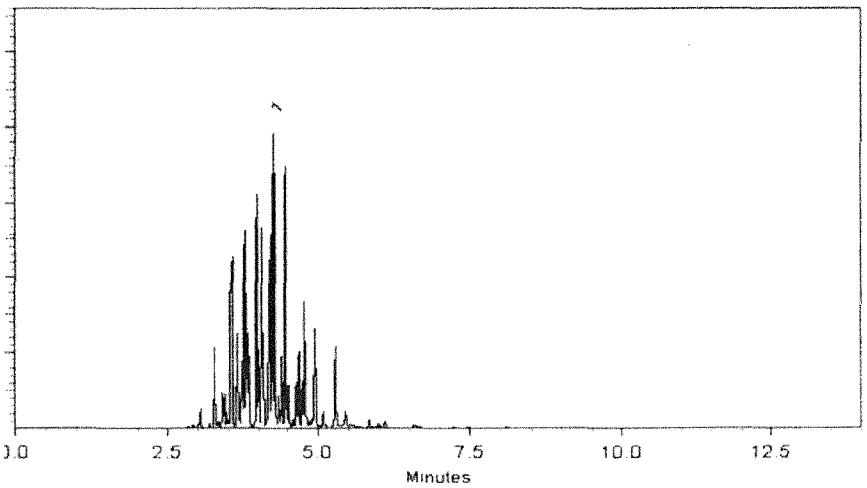
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician

Date Mixed: 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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Certificate #FM 80397

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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)

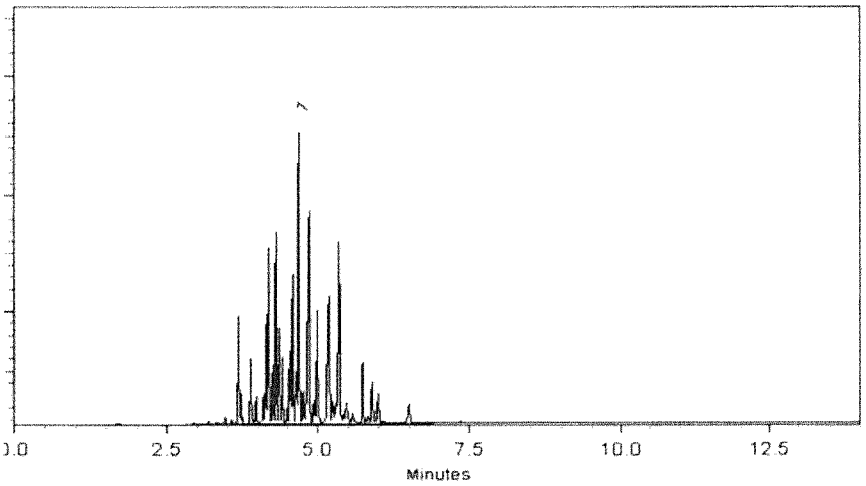
Carrier Gas:
helium-constant pressure 20 psi.

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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Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

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

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

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,002.0 µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot W-125-04)		+/- 31.7498	µg/mL	Unstressed
	Purity ----%			+/- 41.4799	µg/mL	Stressed
2	Aroclor 1260		1,002.2 µg/mL	+/- 5.8403	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot W-129-06)		+/- 31.7561	µg/mL	Unstressed
	Purity ----%			+/- 41.4881	µg/mL	Stressed

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

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

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

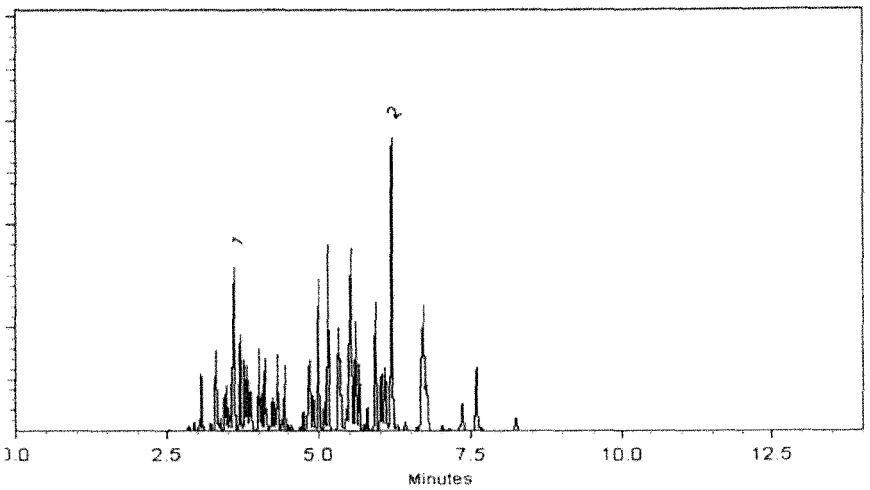
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cathleen Soltis

Cathleen Soltis - Mix Technician

Date Mixed: 30-Jan-2017 **Balance:** B442140311

Jennifer L Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

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

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Date Received: _____

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	302979	Ambient or Less	Hexane	20-Mar-2027	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1010 +/- 7.38	mg/L

405384
REC.07/13/17 BY BDS
Exp. __/__/__ By --
Open / / By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030276-15	296389	≤ Ambient	Hexane	14-Jan-2020	Aroclor 1248 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1248	12672-29-6	100	276.3.1P	1008 +/- 4.47	mg/L

405385
REC. 07/13/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Katrina Emelianoff

Manufacture Date 9-Jan-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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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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Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130011-03	311587	≤ Ambient	Hexane	28-Jul-2020	Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1016	12674-11-2	100	272.5.1.6P	1006 +/- 3.01	mg/L
Aroclor 1260	11096-82-5	100	278.3.10P	1016 +/- 3.02	mg/L

405431
REC.08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

405434
REC 08/10/17 BY MRN
Exp. --/--/-- By --
Open --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

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Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS178
Production Date:	12-May-2017
Best Before:	10-Nov-2018

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	0.29	%
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		99.95	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0527	AU
UV Absorbance @ 350 nm		0.010	0.0048	AU
UV Absorbance @ 375 nm		0.005	0.0013	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 5/12/2017 LIMS Sample No.: AI06733

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0125833

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

dmh 9-18-17

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.5 µg/mL	+/-	1.1742	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/-	6.3844	µg/mL	Unstressed
	Purity 98%			+/-	8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.9 µg/mL	+/-	1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/-	6.3975	µg/mL	Unstressed
	Purity 99%			+/-	8.3581	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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

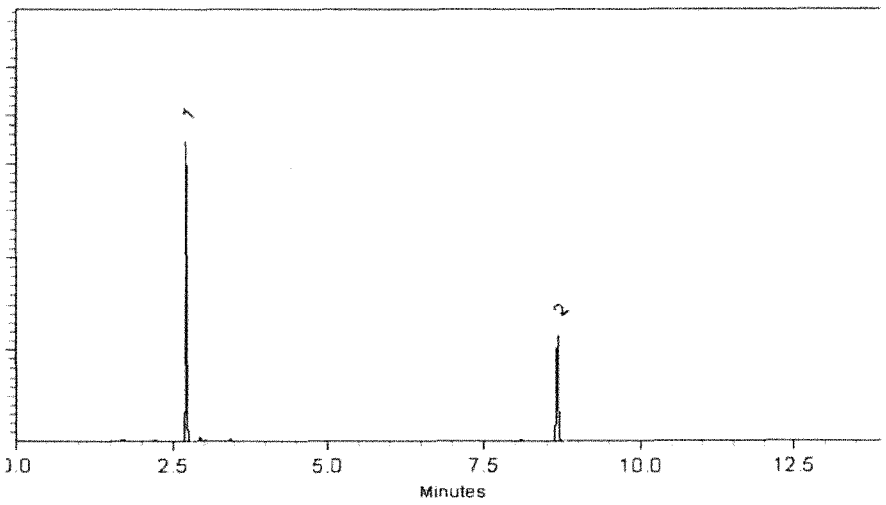
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Matt Fragassi - Mix Technician

Date Mixed: 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Mar-2017

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

405532
REC. 09/29/17 BY MRN
Exp. --/--/-- By --

Honeywell

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Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.31	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.97	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0481	AU
UV Absorbance @ 350 nm		0.010	0.0014	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
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
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Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

RESTEK® CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0130424

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : November 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

405693
REC.01/02/18 BY BLM
Exp: --/--/-- By --
Open / / By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.2 µg/mL	+/- 1.1725	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3751	µg/mL	Unstressed
	Purity 98%			+/- 8.3288	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3848	µg/mL	Unstressed
	Purity 99%			+/- 8.3415	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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

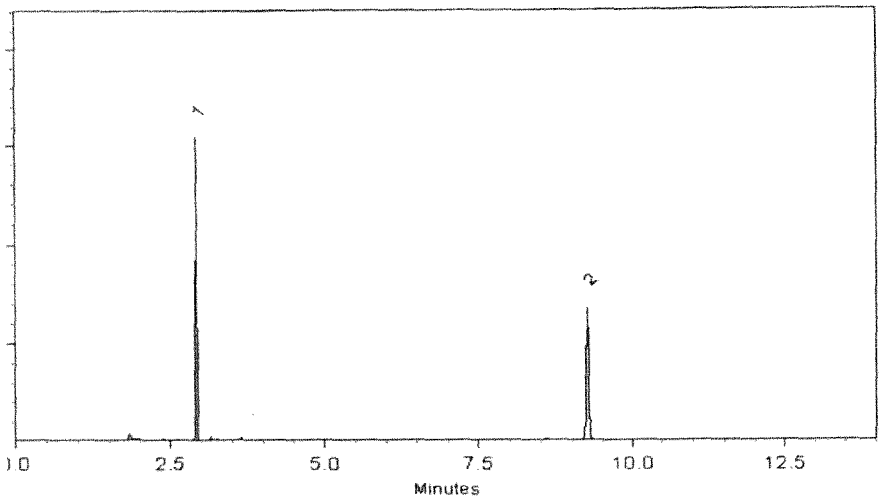
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Tom Suckar - Mix Technician

Date Mixed: 31-Aug-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Sep-2017

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

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

405750
REC. 02/12/18 BY ETB
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000187681
Manufactured Date: 2017/10/16
Expiration Date: 2019/01/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	5
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.9
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

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

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

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

James T Ethier
Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC.
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Quality System Audited & Registered by NSF-ISR to ISO 9001:2008

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

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
020986-02 -02-SS	297165	≤ -10 °C	P/T Methanol	16-Jan-2020	Dichlorofluoromethane (Freon 21) Gas Solution, Second Source, 2000 mg/L, 2 x 0.6 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
dichlorofluoromethane (Freon 21)	75-43-4	99	986.158.2.2.1S	2008 +/- 20.85 mg/L

405766
REC. 02/26/18 BY SMT
Exp. --/--/-- By --
Open / / By

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system that is accredited to ISO 17034 and ISO/IEC 17025.

Second Source standards are prepared according to NELAC

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

SAMPLE NO.

FD1-170613-01-SMB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.30		%	1	03/29/2018 07:09

SAMPLE NO.

FD1-170613-01-SMB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.34		%	1	03/29/2018 07:09

SAMPLE NO.

FD1-170613-01-LMB-11

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.36		%	1	03/16/2018 06:44

SAMPLE NO.

FD1-170613-01-LMB-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.5		%	1	03/16/2018 06:44

SAMPLE NO.

FD1-170613-01-LMB-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.37		%	1	03/16/2018 06:44

SAMPLE NO.

FD1-170613-01-LMB-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.24		%	1	03/16/2018 06:44

SAMPLE NO.

FD1-170613-01-LMB-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.19		%	1	03/16/2018 06:44

SAMPLE NO.

FD1-170613-01-LMB-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.39		%	1	03/16/2018 06:44

SAMPLE NO.

FD1-170613-01-LMB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.40		%	1	03/16/2018 06:44

SAMPLE NO.

FD1-170613-01-LMB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.29		%	1	03/16/2018 06:44

SAMPLE NO.

FD1-170613-01-LMB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.38		%	1	03/16/2018 06:44

SAMPLE NO.

FD1-170613-01-LMB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.32		%	1	03/23/2018 14:11

SAMPLE NO.

FD1-170613-01-LMB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.22		%	1	03/23/2018 14:11

SAMPLE NO.

FD1-170613-01-SMB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40151613014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.31		%	1	03/29/2018 07:10

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract : HUDSON RIVER REMEDIAL ACTION

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1659971	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract : HUDSON RIVER REMEDIAL ACTION

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1663325	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract : HUDSON RIVER REMEDIAL ACTION

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1665662	C
Lipid									<0.030	U

SAMPLE NO.

1659974DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.27	0.30	9

SAMPLE NO.

1659975DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.28	0.22	24

SAMPLE NO.

1659976DUP

FORM VI INORGANIC-3
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	1.5	0.98	41*

* RPD outside QC Limits

SAMPLE NO.

1663327DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.32	0.27	15

SAMPLE NO.

1663329DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.43	0.37	16

SAMPLE NO.

1665665DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.30	0.28	7

SAMPLE NO.

1665666DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40151613 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.39	0.44	13

Prep Log Report

Batch Information: OEXT 283464 LIPIDS **Template Version: F-GB-O-145-Rev.00 (17Feb2015) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/03/2018 12:55				

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	**1659971**	Y	0.000	03/16/2018 06:44:10		10	5	1	0.9244	0.9244	M	
LIPID	BLANK	**1659972**	Y	0.03000	03/16/2018 06:44:10		10	5	1	0.9266	0.9272	M	
LIPID	RQS	**40151605003**	Y	0.2704	03/16/2018 06:44:10		9.9854	5	1	0.9279	0.9333	M	
LIPID	DUP	**1659974**	Y	0.2956	03/16/2018 06:44:10		9.9798	5	1	0.9278	0.9337	M	
LIPID	PS	**40151608003**	Y	0.3702	03/16/2018 06:44:10		9.995	5	1	0.9245	0.9319	M	
LIPID	PS	**40151608004**	Y	0.3564	03/16/2018 06:44:10		9.962	5	1	0.9253	0.9324	M	
LIPID	PS	**40151608005**	Y	0.3795	03/16/2018 06:44:10		10.0132	5	1	0.9194	0.927	M	
LIPID	PS	**40151608006**	Y	0.4092	03/16/2018 06:44:10		10.0204	5	1	0.9199	0.9281	M	
LIPID	PS	**40151608007**	Y	0.3248	03/16/2018 06:44:10		10.0055	5	1	0.9212	0.9277	M	
LIPID	PS	**40151608008**	Y	0.7759	03/16/2018 06:44:10		9.9887	5	1	0.9255	0.941	M	
LIPID	PS	**40151608009**	Y	0.3541	03/16/2018 06:44:10		10.0256	5	1	0.9267	0.9338	M	
LIPID	RQS	**40151608010**	Y	0.2810	03/16/2018 06:44:10		9.9644	5	1	0.9244	0.93	M	
LIPID	DUP	**1659975**	Y	0.2208	03/16/2018 06:44:10		9.9659	5	1	0.925	0.9294	M	
LIPID	PS	**40151613003**	Y	0.3594	03/16/2018 06:44:10		10.0158	5	1	0.9226	0.9298	M	
LIPID	RQS	**40151613004**	Y	1.484	03/16/2018 06:44:10		10.0098	5	1	0.927	0.9567	M	
LIPID	DUP	**1659976**	Y	0.9809	03/16/2018 06:44:10		9.9907	5	1	0.9324	0.952	M	
LIPID	PS	**40151613005**	Y	0.3746	03/16/2018 06:44:10		10.0111	5	1	0.9284	0.9359	M	
LIPID	PS	**40151613006**	Y	0.2356	03/16/2018 06:44:10		9.9764	5	1	0.9265	0.9312	M	
LIPID	PS	**40151613007**	Y	0.1901	03/16/2018 06:44:10		9.9934	5	1	0.9295	0.9333	M	

Prep Log Report

40151613

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	**40151613008**	Y	0.3855	03/16/2018 06:44:10		9.988	5	1	0.929	0.9367	M	
LIPID	PS	**40151613009**	Y	0.3957	03/16/2018 06:44:10		9.9814	5	1	0.9281	0.936	M	
LIPID	PS	**40151613010**	Y	0.2852	03/16/2018 06:44:10		9.9935	5	1	0.9254	0.9311	M	
LIPID	PS	**40151613011**	Y	0.3839	03/16/2018 06:44:10		10.0298	5	1	0.9211	0.9288	M	
LIPID	MS	**1682442**	Y	0.2554	03/16/2018 06:44:10		9.9825	5	1	.9298	0.9349	M	

Prep Log Report

Batch Information: OEXT 284178 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 14:50				

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	**1663325**	Y	-0.005000	03/23/2018 14:11:08		10	5	1	0.9286	0.9285	M	
LIPID	BLANK	**1663326**	Y	-0.02500	03/23/2018 14:11:08		10	5	1	0.9301	0.9296	M	
LIPID	PS	**40151613012**	Y	0.3157	03/23/2018 14:11:08		9.978	5	1	0.9304	0.9367	M	
LIPID	DUP	**1663327**	Y	0.2703	03/23/2018 14:11:08		9.9887	5	1	0.9297	0.9351	M	
LIPID	PS	**40151613013**	Y	0.2156	03/23/2018 14:11:08		9.974	5	1	0.929	0.9333	M	
LIPID	PS	**40151614006**	Y	0.1953	03/23/2018 14:11:08		9.9847	5	1	0.9312	0.9351	M	
LIPID	PS	**40151614009**	Y	0.7095	03/23/2018 14:11:08		10.0068	5	1	0.9288	0.943	M	
LIPID	PS	**40151614010**	Y	0.9109	03/23/2018 14:11:08		9.9903	5	1	0.9327	0.9509	M	
LIPID	PS	**40151616002**	Y	1.022	03/23/2018 14:11:08		10.0303	5	1	0.9302	0.9507	M	
LIPID	PS	**40151616003**	Y	0.7577	03/23/2018 14:11:08		9.964	5	1	0.9318	0.9469	M	
LIPID	PS	**40151616004**	Y	1.189	03/23/2018 14:11:08		9.9633	5	1	0.9297	0.9534	M	
LIPID	PS	**40151616005**	Y	0.8132	03/23/2018 14:11:08		9.9603	5	1	0.9315	0.9477	M	
LIPID	PS	**40151616006**	Y	1.163	03/23/2018 14:11:08		10.0159	5	1	0.9297	0.953	M	
LIPID	PS	**40151616007**	Y	0.7830	03/23/2018 14:11:08		9.9618	5	1	0.9269	0.9425	M	
LIPID	PS	**40151616008**	Y	1.421	03/23/2018 14:11:08		10.0254	5	1	0.9288	0.9573	M	
LIPID	PS	**40151616009**	Y	1.048	03/23/2018 14:11:08		9.9761	5	1	0.9294	0.9503	M	
LIPID	RQS	**40151616010**	Y	0.4303	03/23/2018 14:11:08		9.9941	5	1	0.9282	0.9368	M	
LIPID	DUP	**1663329**	Y	0.3651	03/23/2018 14:11:08		9.9982	5	1	0.9289	0.9362	M	
LIPID	PS	**40151802006**	Y	0.6452	03/23/2018 14:11:08		9.9966	5	1	0.9252	0.9381	M	

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	**40151805002**	Y	0.8014	03/23/2018 14:11:08		9.9823	5	1	0.9318	0.9478	M	
LIPID	MS	**1682513**	Y	0.4666	03/23/2018 14:11:08		9.965	5	1	.9284	0.9377	M	

Prep Log Report

Batch Information: OEXT 284607 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 14:45				

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	**1665662**	Y	0.000	03/29/2018 07:08:13		10	5	1	0.9302	0.9302	M	1664793
LIPID	BLANK	**1665663**	Y	-0.01000	03/29/2018 07:08:26		10	5	1	0.929	0.9288	M	1664794
LIPID	PS	**40151549001**	Y	0.8646	03/29/2018 07:08:40		10.0051	5	1	0.9306	0.9479	M	
LIPID	PS	**40151601001**	Y	0.4694	03/29/2018 07:08:51		10.0134	5	1	0.9305	0.9399	M	
LIPID	PS	**40151613001**	Y	0.2956	03/29/2018 07:09:02		9.9785	5	1	0.9291	0.935	M	
LIPID	DUP	**1665665**	Y	0.2754	03/29/2018 07:09:22		9.9864	5	1	0.928	0.9335	M	1664796
LIPID	PS	**40151613002**	Y	0.3351	03/29/2018 07:09:35		9.9976	5	1	0.9266	0.9333	M	
LIPID	PS	**40151614002**	Y	0.5648	03/29/2018 07:09:44		10.0031	5	1	0.9267	0.938	M	
LIPID	PS	**40151614003**	Y	0.2853	03/29/2018 07:09:58		9.9906	5	1	0.9255	0.9312	M	
LIPID	PS	**40151614004**	Y	0.2303	03/29/2018 07:10:08		9.986	5	1	0.9277	0.9323	M	
LIPID	PS	**40151613014**	Y	0.3100	03/29/2018 07:10:21		10	5	1	0.9278	0.934	M	
LIPID	PS	**40151800005**	Y	0.5196	03/29/2018 07:10:32		10.0085	5	1	0.926	0.9364	M	
LIPID	PS	**40151802001**	Y	0.2955	03/29/2018 07:10:38		9.9815	5	1	0.9251	0.931	M	
LIPID	PS	**40151802002**	Y	0.2035	03/29/2018 07:10:45		9.994	5	1.5	0.9294	0.9355	M	1*
LIPID	PS	**40151802003**	Y	0.3614	03/29/2018 07:10:53		9.9604	5	1	0.9296	0.9368	M	
LIPID	PS	**40151802004**	Y	0.3492	03/29/2018 07:11:00		10.0221	5	1	0.9287	0.9357	M	
LIPID	PS	**40151802005**	Y	0.3408	03/29/2018 07:11:07		9.9766	5	1	0.928	0.9348	M	
LIPID	PS	**40151805001**	Y	1.029	03/29/2018 07:11:17		10.0137	5	1	0.9291	0.9497	M	
LIPID	PS	**40157825001**	Y	0.3859	03/29/2018 07:11:23		9.9773	5	1	0.9255	0.9332	M	

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	DUP	**1665666**	Y	0.4392	03/29/2018 07:11:30		10.019	5	1	0.924	0.9328	M	1664809
LIPID	MS	**1682554**	Y	0.2706	03/29/2018 07:11:30		9.9787	5	1	.9302	0.9356	M	

Sample Notes:

1*: 0.5mL of samples was added on accident to the tin so the Lipids are out of 1.5 instead of the usual 1.0mL. AMC 4/6/18

40151613

Client Name: GE
Project #: 40151613
Sample Type: Fish
Date/Time Removed to Thaw: 03-13-18
Date/Time Prepped: 03-14-18
Prepped by: CWN + JL + RM
Location Thawed: 40FRG21 / Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
1	A	F	Y	299.0	Y	M	66.1	Left / Both	Y	9AG	1	Y	64.3	C	
2	A	F	Y	406.8	Y	M	80.2	Left / Both	Y	9AG	1	Y	78.0	C	
3	A	F	Y	1403.8	Y	F	296.7	Left / Both	Y	9AG	2	Y	292.8	RM2	
4	A	F	Y	1903.9	Y	F	382.8	Left / Both	Y	9AG	3	Y	380.6	RM2	
5	A	F	Y	1172.5	Y	M	231.6	Left / Both	Y	9AG	2	Y	231.8	RM2	
6	A	F	Y	1381.8	Y	M	267.8	Left / Both	Y	9AG	2	Y	259.6	RM2	
7	A	F	Y	1011.5	Y	F	203.2	Left / Both	Y	9AG	1	Y	195.4	C	
8	A	F	Y	420.3	Y	M	91.8	Left / Both	Y	9AG	1	Y	88.4	C	
9	A	F	Y	835.6	Y	M	185.1	Left / Both	Y	9AG	1	Y	182.8	C	
10	A	F	Y	366.5	Y	F	69.1	Left / Both	Y	9AG	1	Y	69.8	C	
11	A	F	Y	379.7	Y	F	77.9	Left / Both	Y	9AG	1	Y	77.1	C	
12	A	F	Y	426.1	Y	F	87.6	Left / Both	Y	9AG	1	Y	85.7	C	
13	A	F	Y	953.1	Y	F	191.3	Left / Both	Y	9AG	1	Y	185.6	C	
14	A	F	Y	365.4	Y	F	73.5	Left / Both	Y	9AG	1	Y	71.9	C	
								Left / Both							
								Left / Both							
								Left / Both							
					CWN	03-14-18		Left / Both							
								Left / Both							
								Left / Both							

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(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-7-217-64AB
32AG	32 oz Amber Glass	

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

Date 3/16/18