Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40150340

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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 M
Pace Project No.: 40150340

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: David Blye, Environmental Standards Inc.
Mark Meyers, Anchor QEA, LLC
Meg Michell, Environmental Standards Inc.

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CERTIFICATIONS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40150340001	**AT1-170519-01-STB-20**	Tissue	05/19/17 10:29	05/20/17 09:45
40150340002	**AT1-170519-01-STB-19**	Tissue	05/19/17 10:27	05/20/17 09:45
40150340003	**AT1-170519-01-STB-18**	Tissue	05/19/17 10:25	05/20/17 09:45
40150340004	**AT1-170519-01-STB-17**	Tissue	05/19/17 10:23	05/20/17 09:45
40150340005	**AT1-170519-01-STB-16**	Tissue	05/19/17 10:22	05/20/17 09:45
40150340006	**AT1-170519-01-STB-15**	Tissue	05/19/17 10:20	05/20/17 09:45
40150340007	**AT1-170519-01-STB-14**	Tissue	05/19/17 10:19	05/20/17 09:45
40150340008	**AT1-170519-01-STB-13**	Tissue	05/19/17 10:18	05/20/17 09:45
40150340009	**AT1-170519-01-STB-12**	Tissue	05/19/17 10:06	05/20/17 09:45
40150340010	**AT1-170519-01-STB-11**	Tissue	05/19/17 10:01	05/20/17 09:45
40150340011	**AT1-170519-01-STB-10**	Tissue	05/19/17 09:58	05/20/17 09:45
40150340012	**AT1-170519-01-STB-09**	Tissue	05/19/17 09:52	05/20/17 09:45
40150340013	**AT1-170519-01-STB-08**	Tissue	05/19/17 09:50	05/20/17 09:45
40150340014	**AT1-170519-01-STB-07**	Tissue	05/19/17 09:46	05/20/17 09:45
40150340015	**AT1-170519-01-STB-06**	Tissue	05/19/17 09:44	05/20/17 09:45
40150340016	**AT1-170519-01-STB-05**	Tissue	05/19/17 09:39	05/20/17 09:45
40150340017	**AT1-170519-01-STB-04**	Tissue	05/19/17 09:36	05/20/17 09:45
40150340018	**AT1-170519-01-STB-03**	Tissue	05/19/17 09:30	05/20/17 09:45
40150340019	**AT1-170519-01-STB-02**	Tissue	05/19/17 09:26	05/20/17 09:45
40150340020	**AT1-170519-01-STB-01**	Tissue	05/19/17 09:21	05/20/17 09:45

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40150340001	AT1-170519-01-STB-20	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340002	AT1-170519-01-STB-19	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340003	AT1-170519-01-STB-18	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340004	AT1-170519-01-STB-17	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340005	AT1-170519-01-STB-16	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340006	AT1-170519-01-STB-15	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340007	AT1-170519-01-STB-14	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340008	AT1-170519-01-STB-13	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340009	AT1-170519-01-STB-12	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340010	AT1-170519-01-STB-11	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340011	AT1-170519-01-STB-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340012	AT1-170519-01-STB-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340013	AT1-170519-01-STB-08	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340014	**AT1-170519-01-STB-07**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340015	**AT1-170519-01-STB-06**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340016	**AT1-170519-01-STB-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340017	**AT1-170519-01-STB-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340018	**AT1-170519-01-STB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340019	**AT1-170519-01-STB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40150340020	**AT1-170519-01-STB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

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

General Information:
20 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: 283218

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

- AT1-170519-01-STB-17 (Lab ID: 40150340004)
  - 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.

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

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

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

Analyte Comments:

QC Batch: 283218

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

- AT1-170519-01-STB-01 (Lab ID: 40150340020)
  - PCB-1016 (Aroclor 1016)
- AT1-170519-01-STB-06 (Lab ID: 40150340015)
  - PCB-1016 (Aroclor 1016)
- AT1-170519-01-STB-07 (Lab ID: 40150340014)
  - PCB-1016 (Aroclor 1016)
- AT1-170519-01-STB-08 (Lab ID: 40150340013)
  - PCB-1016 (Aroclor 1016)
- AT1-170519-01-STB-17 (Lab ID: 40150340004)
  - PCB-1016 (Aroclor 1016)
- AT1-170519-01-STB-18 (Lab ID: 40150340003)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

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

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

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

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

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

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

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

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

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

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

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

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

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

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

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

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

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-20 **Lab ID: 40150340001** Collected: 05/19/17 10:29 Received: 05/20/17 09:45 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	03/14/18 12:55	03/15/18 15:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 15:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 15:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 15:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**103**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 15:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**82.3**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 15:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**81.1**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 15:10	11096-82-5	
PCB, Total	**266**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 15:10	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	60-140		1	03/14/18 12:55	03/15/18 15:10	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		1	03/14/18 12:55	03/15/18 15:10	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/13/18 10:54		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.51**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-19 **Lab ID: 40150340002** Collected: 05/19/17 10:27 Received: 05/20/17 09:45 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	50.2	11.4	1	03/14/18 12:55	03/15/18 15:25	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 15:25	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 15:25	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 15:25	53469-21-9	
PCB-1248 (Aroclor 1248)	**56.1**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 15:25	12672-29-6	
PCB-1254 (Aroclor 1254)	**55.2**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 15:25	11097-69-1	
PCB-1260 (Aroclor 1260)	**80.9**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 15:25	11096-82-5	
PCB, Total	**192**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 15:25	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	60-140		1	03/14/18 12:55	03/15/18 15:25	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		1	03/14/18 12:55	03/15/18 15:25	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:54		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-18 **Lab ID: 40150340003** Collected: 05/19/17 10:25 Received: 05/20/17 09:45 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<45.6**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 15:42	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<45.6**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 15:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.6**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 15:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.6**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 15:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**781**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 15:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**654**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 15:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**362**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 15:42	11096-82-5	
PCB, Total	**1800**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 15:42	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	106	%	60-140		4	03/14/18 12:55	03/20/18 15:42	877-09-8	
Decachlorobiphenyl (S)	121	%	60-140		4	03/14/18 12:55	03/20/18 15:42	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:54		
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.5**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-17 **Lab ID: 40150340004** Collected: 05/19/17 10:23 Received: 05/20/17 09:45 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)	**<228**	ug/kg	1000	228	20	03/14/18 12:55	03/20/18 15:58	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<228**	ug/kg	1000	228	20	03/14/18 12:55	03/20/18 15:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<228**	ug/kg	1000	228	20	03/14/18 12:55	03/20/18 15:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<228**	ug/kg	1000	228	20	03/14/18 12:55	03/20/18 15:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**3370**	ug/kg	1000	228	20	03/14/18 12:55	03/20/18 15:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**1910**	ug/kg	1000	228	20	03/14/18 12:55	03/20/18 15:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**793J**	ug/kg	1000	228	20	03/14/18 12:55	03/20/18 15:58	11096-82-5	
PCB, Total	**6070**	ug/kg	1000	228	20	03/14/18 12:55	03/20/18 15:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		20	03/14/18 12:55	03/20/18 15:58	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		20	03/14/18 12:55	03/20/18 15:58	2051-24-3	S4
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:54		
Lipid	Analytical Method: Pace Lipid								
Lipid	**10.0**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-16 **Lab ID: 40150340005** Collected: 05/19/17 10:22 Received: 05/20/17 09:45 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	03/14/18 12:55	03/15/18 16:13	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 16:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 16:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 16:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**53.6**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 16:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**76.3**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 16:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**93.9**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 16:13	11096-82-5	
PCB, Total	**224**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 16:13	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		1	03/14/18 12:55	03/15/18 16:13	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		1	03/14/18 12:55	03/15/18 16:13	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.49**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-15 **Lab ID: 40150340006** Collected: 05/19/17 10:20 Received: 05/20/17 09:45 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.8	11.4	1	03/14/18 12:55	03/15/18 16:29	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/14/18 12:55	03/15/18 16:29	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/14/18 12:55	03/15/18 16:29	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/14/18 12:55	03/15/18 16:29	53469-21-9	
PCB-1248 (Aroclor 1248)	**164**	ug/kg	49.8	11.4	1	03/14/18 12:55	03/15/18 16:29	12672-29-6	
PCB-1254 (Aroclor 1254)	**123**	ug/kg	49.8	11.4	1	03/14/18 12:55	03/15/18 16:29	11097-69-1	
PCB-1260 (Aroclor 1260)	**76.9**	ug/kg	49.8	11.4	1	03/14/18 12:55	03/15/18 16:29	11096-82-5	
PCB, Total	**364**	ug/kg	49.8	11.4	1	03/14/18 12:55	03/15/18 16:29	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	99	%	60-140		1	03/14/18 12:55	03/15/18 16:29	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		1	03/14/18 12:55	03/15/18 16:29	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.85**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-14 **Lab ID: 40150340007** Collected: 05/19/17 10:19 Received: 05/20/17 09:45 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	03/14/18 12:55	03/15/18 16:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 16:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 16:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 16:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**44.1J**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 16:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**45.9J**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 16:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**63.1**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 16:45	11096-82-5	
PCB, Total	**153**	ug/kg	50.1	11.4	1	03/14/18 12:55	03/15/18 16:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		1	03/14/18 12:55	03/15/18 16:45	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	03/14/18 12:55	03/15/18 16:45	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.82**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-13 **Lab ID: 40150340008** Collected: 05/19/17 10:18 Received: 05/20/17 09:45 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	03/14/18 12:55	03/15/18 17:32	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 17:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 17:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 17:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**106**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 17:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**94.5**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 17:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**52.1**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 17:32	11096-82-5	
PCB, Total	**252**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 17:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	60-140		1	03/14/18 12:55	03/15/18 17:32	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		1	03/14/18 12:55	03/15/18 17:32	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.72**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-12 **Lab ID: 40150340009** Collected: 05/19/17 10:06 Received: 05/20/17 09:45 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	50.2	11.4	1	03/14/18 12:55	03/15/18 17:48	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 17:48	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 17:48	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 17:48	53469-21-9	
PCB-1248 (Aroclor 1248)	**137**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 17:48	12672-29-6	
PCB-1254 (Aroclor 1254)	**119**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 17:48	11097-69-1	
PCB-1260 (Aroclor 1260)	**172**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 17:48	11096-82-5	
PCB, Total	**427**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 17:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		1	03/14/18 12:55	03/15/18 17:48	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	03/14/18 12:55	03/15/18 17:48	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.64**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-11 **Lab ID: 40150340010** Collected: 05/19/17 10:01 Received: 05/20/17 09:45 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	50.2	11.4	1	03/14/18 12:55	03/15/18 18:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 18:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 18:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 18:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**60.7**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 18:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**66.2**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 18:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**95.0**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 18:04	11096-82-5	
PCB, Total	**222**	ug/kg	50.2	11.4	1	03/14/18 12:55	03/15/18 18:04	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		1	03/14/18 12:55	03/15/18 18:04	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		1	03/14/18 12:55	03/15/18 18:04	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.8**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-10 **Lab ID: 40150340011** Collected: 05/19/17 09:58 Received: 05/20/17 09:45 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	03/14/18 12:55	03/15/18 18:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**67.6**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**70.8**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**120**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:20	11096-82-5	
PCB, Total	**259**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	102	%	60-140		1	03/14/18 12:55	03/15/18 18:20	877-09-8	
Decachlorobiphenyl (S)	108	%	60-140		1	03/14/18 12:55	03/15/18 18:20	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.9**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-09 **Lab ID: 40150340012** Collected: 05/19/17 09:52 Received: 05/20/17 09:45 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	03/14/18 12:55	03/15/18 18:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**140**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**151**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**174**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:51	11096-82-5	
PCB, Total	**465**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 18:51	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	103	%	60-140		1	03/14/18 12:55	03/15/18 18:51	877-09-8	
Decachlorobiphenyl (S)	104	%	60-140		1	03/14/18 12:55	03/15/18 18:51	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.5**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-08 **Lab ID: 40150340013** Collected: 05/19/17 09:50 Received: 05/20/17 09:45 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	99.9	22.8	2	03/14/18 12:55	03/20/18 16:13	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	99.9	22.8	2	03/14/18 12:55	03/20/18 16:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.9	22.8	2	03/14/18 12:55	03/20/18 16:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.9	22.8	2	03/14/18 12:55	03/20/18 16:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**329**	ug/kg	99.9	22.8	2	03/14/18 12:55	03/20/18 16:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**411**	ug/kg	99.9	22.8	2	03/14/18 12:55	03/20/18 16:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**228**	ug/kg	99.9	22.8	2	03/14/18 12:55	03/20/18 16:13	11096-82-5	
PCB, Total	**968**	ug/kg	99.9	22.8	2	03/14/18 12:55	03/20/18 16:13	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		2	03/14/18 12:55	03/20/18 16:13	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		2	03/14/18 12:55	03/20/18 16:13	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.6**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-07 **Lab ID: 40150340014** Collected: 05/19/17 09:46 Received: 05/20/17 09:45 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	500	114	10	03/14/18 12:55	03/20/18 17:01	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	500	114	10	03/14/18 12:55	03/20/18 17:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	500	114	10	03/14/18 12:55	03/20/18 17:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	500	114	10	03/14/18 12:55	03/20/18 17:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**1600**	ug/kg	500	114	10	03/14/18 12:55	03/20/18 17:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**983**	ug/kg	500	114	10	03/14/18 12:55	03/20/18 17:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**475J**	ug/kg	500	114	10	03/14/18 12:55	03/20/18 17:01	11096-82-5	
PCB, Total	**3060**	ug/kg	500	114	10	03/14/18 12:55	03/20/18 17:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	102	%	60-140		10	03/14/18 12:55	03/20/18 17:01	877-09-8	
Decachlorobiphenyl (S)	122	%	60-140		10	03/14/18 12:55	03/20/18 17:01	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.2**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-06 **Lab ID: 40150340015** Collected: 05/19/17 09:44 Received: 05/20/17 09:45 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	99.8	22.8	2	03/14/18 12:55	03/20/18 17:17	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	99.8	22.8	2	03/14/18 12:55	03/20/18 17:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.8	22.8	2	03/14/18 12:55	03/20/18 17:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.8	22.8	2	03/14/18 12:55	03/20/18 17:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**158**	ug/kg	99.8	22.8	2	03/14/18 12:55	03/20/18 17:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**246**	ug/kg	99.8	22.8	2	03/14/18 12:55	03/20/18 17:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**121**	ug/kg	99.8	22.8	2	03/14/18 12:55	03/20/18 17:17	11096-82-5	
PCB, Total	**524**	ug/kg	99.8	22.8	2	03/14/18 12:55	03/20/18 17:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		2	03/14/18 12:55	03/20/18 17:17	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		2	03/14/18 12:55	03/20/18 17:17	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.6**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-05 **Lab ID: 40150340016** Collected: 05/19/17 09:39 Received: 05/20/17 09:45 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	03/14/18 12:55	03/15/18 19:55	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 19:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 19:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 19:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**38.3J**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 19:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**58.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 19:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**94.1**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 19:55	11096-82-5	
PCB, Total	**191**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 19:55	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		1	03/14/18 12:55	03/15/18 19:55	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		1	03/14/18 12:55	03/15/18 19:55	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.1**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-04 **Lab ID: 40150340017** Collected: 05/19/17 09:36 Received: 05/20/17 09:45 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	03/14/18 12:55	03/15/18 20:42	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 20:42	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 20:42	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 20:42	53469-21-9	
PCB-1248 (Aroclor 1248)	**88.3**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 20:42	12672-29-6	
PCB-1254 (Aroclor 1254)	**107**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 20:42	11097-69-1	
PCB-1260 (Aroclor 1260)	**125**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 20:42	11096-82-5	
PCB, Total	**320**	ug/kg	49.9	11.4	1	03/14/18 12:55	03/15/18 20:42	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	99	%	60-140		1	03/14/18 12:55	03/15/18 20:42	877-09-8	
Decachlorobiphenyl (S)	104	%	60-140		1	03/14/18 12:55	03/15/18 20:42	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-03 **Lab ID: 40150340018** Collected: 05/19/17 09:30 Received: 05/20/17 09:45 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	03/14/18 12:55	03/15/18 20:58	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 20:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 20:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 20:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**149**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 20:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**163**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 20:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**85.3**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 20:58	11096-82-5	
PCB, Total	**397**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 20:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		1	03/14/18 12:55	03/15/18 20:58	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		1	03/14/18 12:55	03/15/18 20:58	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.2**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-02 **Lab ID: 40150340019** Collected: 05/19/17 09:26 Received: 05/20/17 09:45 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	03/14/18 12:55	03/15/18 21:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 21:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 21:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 21:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**50.1**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 21:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**55.5**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 21:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**98.3**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 21:14	11096-82-5	
PCB, Total	**204**	ug/kg	50.0	11.4	1	03/14/18 12:55	03/15/18 21:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		1	03/14/18 12:55	03/15/18 21:14	877-09-8	
Decachlorobiphenyl (S)	98	%	60-140		1	03/14/18 12:55	03/15/18 21:14	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.4**	%	0.030	0.030	1		03/15/18 06:48		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Sample: AT1-170519-01-STB-01 **Lab ID: 40150340020** Collected: 05/19/17 09:21 Received: 05/20/17 09:45 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<45.6**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 17:32	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**<45.6**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 17:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.6**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 17:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.6**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 17:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**545**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 17:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**550**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 17:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**498**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 17:32	11096-82-5	
PCB, Total	**1590**	ug/kg	200	45.6	4	03/14/18 12:55	03/20/18 17:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		4	03/14/18 12:55	03/20/18 17:32	877-09-8	
Decachlorobiphenyl (S)	107	%	60-140		4	03/14/18 12:55	03/20/18 17:32	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/13/18 10:55		
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.2**	%	0.030	0.030	1		03/15/18 06:48		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

QC Batch: 283218 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB

Associated Lab Samples: 40150340001, 40150340002, 40150340003, 40150340004, 40150340005, 40150340006, 40150340007, 40150340008, 40150340009, 40150340010, 40150340011, 40150340012, 40150340013, 40150340014, 40150340015, 40150340016, 40150340017, 40150340018, 40150340019, 40150340020

METHOD BLANK: 1658673 | Matrix: Tissue

Associated Lab Samples: 40150340001, 40150340002, 40150340003, 40150340004, 40150340005, 40150340006, 40150340007, 40150340008, 40150340009, 40150340010, 40150340011, 40150340012, 40150340013, 40150340014, 40150340015, 40150340016, 40150340017, 40150340018, 40150340019, 40150340020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/15/18 14:22	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/15/18 14:22	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/15/18 14:22	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/15/18 14:22	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/15/18 14:22	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/15/18 14:22	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/15/18 14:22	
Decachlorobiphenyl (S)	%	88	60-140		03/15/18 14:22	
Tetrachloro-m-xylene (S)	%	79	60-140		03/15/18 14:22	

LABORATORY CONTROL SAMPLE: 1658674

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	226	90	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			89	60-140	
Tetrachloro-m-xylene (S)	%			84	60-140	

MATRIX SPIKE SAMPLE: 1658675

Parameter	Units	40150340011 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	281	112	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	67.6		220			
PCB-1254 (Aroclor 1254)	ug/kg	70.8		87.3			
PCB-1260 (Aroclor 1260)	ug/kg	120		96.7			
Decachlorobiphenyl (S)	%				101	60-140	
Tetrachloro-m-xylene (S)	%				96	60-140	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

SAMPLE DUPLICATE: 1658676

Parameter	Units	40150340011 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	67.6	58.6	14	40	
PCB-1254 (Aroclor 1254)	ug/kg	70.8	61.4	14	40	
PCB-1260 (Aroclor 1260)	ug/kg	120	105	13	40	
Decachlorobiphenyl (S)	%	108	104	4		
Tetrachloro-m-xylene (S)	%	102	94	8		

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

QC Batch: 283335 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40150340001, 40150340002, 40150340003, 40150340004, 40150340005, 40150340006, 40150340007, 40150340008, 40150340009, 40150340010, 40150340011, 40150340012, 40150340013, 40150340014, 40150340015, 40150340016, 40150340017, 40150340018, 40150340019, 40150340020

METHOD BLANK: 1659202 | Matrix: Tissue
Associated Lab Samples: 40150340001, 40150340002, 40150340003, 40150340004, 40150340005, 40150340006, 40150340007, 40150340008, 40150340009, 40150340010, 40150340011, 40150340012, 40150340013, 40150340014, 40150340015, 40150340016, 40150340017, 40150340018, 40150340019, 40150340020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/15/18 06:48	

MATRIX SPIKE SAMPLE: 1682455

Parameter	Units	40150340011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	1.9		1.6			

SAMPLE DUPLICATE: 1659203

Parameter	Units	40150340011 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.9	1.7	14	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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QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q	Sample was re-analyzed due to incorrect dilution.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40150340001	**AT1-170519-01-STB-20**	EPA 3541	283218	EPA 8082A Mod	283374
40150340002	**AT1-170519-01-STB-19**	EPA 3541	283218	EPA 8082A Mod	283374
40150340003	**AT1-170519-01-STB-18**	EPA 3541	283218	EPA 8082A Mod	283374
40150340004	**AT1-170519-01-STB-17**	EPA 3541	283218	EPA 8082A Mod	283374
40150340005	**AT1-170519-01-STB-16**	EPA 3541	283218	EPA 8082A Mod	283374
40150340006	**AT1-170519-01-STB-15**	EPA 3541	283218	EPA 8082A Mod	283374
40150340007	**AT1-170519-01-STB-14**	EPA 3541	283218	EPA 8082A Mod	283374
40150340008	**AT1-170519-01-STB-13**	EPA 3541	283218	EPA 8082A Mod	283374
40150340009	**AT1-170519-01-STB-12**	EPA 3541	283218	EPA 8082A Mod	283374
40150340010	**AT1-170519-01-STB-11**	EPA 3541	283218	EPA 8082A Mod	283374
40150340011	**AT1-170519-01-STB-10**	EPA 3541	283218	EPA 8082A Mod	283374
40150340012	**AT1-170519-01-STB-09**	EPA 3541	283218	EPA 8082A Mod	283374
40150340013	**AT1-170519-01-STB-08**	EPA 3541	283218	EPA 8082A Mod	283374
40150340014	**AT1-170519-01-STB-07**	EPA 3541	283218	EPA 8082A Mod	283374
40150340015	**AT1-170519-01-STB-06**	EPA 3541	283218	EPA 8082A Mod	283374
40150340016	**AT1-170519-01-STB-05**	EPA 3541	283218	EPA 8082A Mod	283374
40150340017	**AT1-170519-01-STB-04**	EPA 3541	283218	EPA 8082A Mod	283374
40150340018	**AT1-170519-01-STB-03**	EPA 3541	283218	EPA 8082A Mod	283374
40150340019	**AT1-170519-01-STB-02**	EPA 3541	283218	EPA 8082A Mod	283374
40150340020	**AT1-170519-01-STB-01**	EPA 3541	283218	EPA 8082A Mod	283374
40150340001	**AT1-170519-01-STB-20**	Pace Gender Typing	283150		
40150340002	**AT1-170519-01-STB-19**	Pace Gender Typing	283150		
40150340003	**AT1-170519-01-STB-18**	Pace Gender Typing	283150		
40150340004	**AT1-170519-01-STB-17**	Pace Gender Typing	283150		
40150340005	**AT1-170519-01-STB-16**	Pace Gender Typing	283150		
40150340006	**AT1-170519-01-STB-15**	Pace Gender Typing	283150		
40150340007	**AT1-170519-01-STB-14**	Pace Gender Typing	283150		
40150340008	**AT1-170519-01-STB-13**	Pace Gender Typing	283150		
40150340009	**AT1-170519-01-STB-12**	Pace Gender Typing	283150		
40150340010	**AT1-170519-01-STB-11**	Pace Gender Typing	283150		
40150340011	**AT1-170519-01-STB-10**	Pace Gender Typing	283150		
40150340012	**AT1-170519-01-STB-09**	Pace Gender Typing	283150		
40150340013	**AT1-170519-01-STB-08**	Pace Gender Typing	283150		
40150340014	**AT1-170519-01-STB-07**	Pace Gender Typing	283150		
40150340015	**AT1-170519-01-STB-06**	Pace Gender Typing	283150		
40150340016	**AT1-170519-01-STB-05**	Pace Gender Typing	283150		
40150340017	**AT1-170519-01-STB-04**	Pace Gender Typing	283150		
40150340018	**AT1-170519-01-STB-03**	Pace Gender Typing	283150		
40150340019	**AT1-170519-01-STB-02**	Pace Gender Typing	283150		
40150340020	**AT1-170519-01-STB-01**	Pace Gender Typing	283150		
40150340001	**AT1-170519-01-STB-20**	Pace Lipid	283335		
40150340002	**AT1-170519-01-STB-19**	Pace Lipid	283335		
40150340003	**AT1-170519-01-STB-18**	Pace Lipid	283335		
40150340004	**AT1-170519-01-STB-17**	Pace Lipid	283335		
40150340005	**AT1-170519-01-STB-16**	Pace Lipid	283335		
40150340006	**AT1-170519-01-STB-15**	Pace Lipid	283335		
40150340007	**AT1-170519-01-STB-14**	Pace Lipid	283335		
40150340008	**AT1-170519-01-STB-13**	Pace Lipid	283335		

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40150340

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40150340009	**AT1-170519-01-STB-12**	Pace Lipid	283335		
40150340010	**AT1-170519-01-STB-11**	Pace Lipid	283335		
40150340011	**AT1-170519-01-STB-10**	Pace Lipid	283335		
40150340012	**AT1-170519-01-STB-09**	Pace Lipid	283335		
40150340013	**AT1-170519-01-STB-08**	Pace Lipid	283335		
40150340014	**AT1-170519-01-STB-07**	Pace Lipid	283335		
40150340015	**AT1-170519-01-STB-06**	Pace Lipid	283335		
40150340016	**AT1-170519-01-STB-05**	Pace Lipid	283335		
40150340017	**AT1-170519-01-STB-04**	Pace Lipid	283335		
40150340018	**AT1-170519-01-STB-03**	Pace Lipid	283335		
40150340019	**AT1-170519-01-STB-02**	Pace Lipid	283335		
40150340020	**AT1-170519-01-STB-01**	Pace Lipid	283335		

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SSM

40150340

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170519-T11-01
Sample Custodian: RRC
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

KB 5/20/17 #5 OK

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	AT1-170519-01	AT1-170519-01-STB-20	5/19/2017	10:29	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-fish
002	AT1-170519-01	AT1-170519-01-STB-19	5/19/2017	10:27	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	AT1-170519-01	AT1-170519-01-STB-18	5/19/2017	10:25	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	AT1-170519-01	AT1-170519-01-STB-17	5/19/2017	10:23	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	AT1-170519-01	AT1-170519-01-STB-16	5/19/2017	10:22	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	AT1-170519-01	AT1-170519-01-STB-15	5/19/2017	10:20	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	AT1-170519-01	AT1-170519-01-STB-14	5/19/2017	10:19	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	AT1-170519-01	AT1-170519-01-STB-13	5/19/2017	10:18	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	AT1-170519-01	AT1-170519-01-STB-12	5/19/2017	10:06	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	AT1-170519-01	AT1-170519-01-STB-11	5/19/2017	10:01	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	✓

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature Katie Schramm Pace	Signature	Signature
Print Name BACorp	Print Name	Print Name	Print Name Katie Schramm	Print Name	Print Name
Company AQ	Company Fed Ex	Company Fed Ex	Company Pace	Company	Company
Date/Time 5/19/17 11:30	Date/Time 5/19/17 11:30	Date/Time 5/20/17 0945	Date/Time 5/20/17 0945	Date/Time	Date/Time

Date Printed: 5/19/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal ***COC TYPE:*** *TPCB-LIPD-PEST-MERCURY* ***Page 1 of 2***

40150340

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170519-T11-01
Sample Custodian: RRC
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
011	AT1-170519-01	AT1-170519-01-STB-10	5/19/2017	9:58	✔	1	F	FLRC	☐	☐	☐	✔	✔	✔	1-fish
012	AT1-170519-01	AT1-170519-01-STB-09	5/19/2017	9:52	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
013	AT1-170519-01	AT1-170519-01-STB-08	5/19/2017	9:50	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
014	AT1-170519-01	AT1-170519-01-STB-07	5/19/2017	9:46	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
015	AT1-170519-01	AT1-170519-01-STB-06	5/19/2017	9:44	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
016	AT1-170519-01	AT1-170519-01-STB-05	5/19/2017	9:39	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
017	AT1-170519-01	AT1-170519-01-STB-04	5/19/2017	9:36	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
018	AT1-170519-01	AT1-170519-01-STB-03	5/19/2017	9:30	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
019	AT1-170519-01	AT1-170519-01-STB-02	5/19/2017	9:26	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
020	AT1-170519-01	AT1-170519-01-STB-01	5/19/2017	9:21	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	

kf 5/20/17 #3 02

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name B. Constant	Print Name	Print Name	Print Name Katie Schramm	Print Name	Print Name
Company AQ	Company Fed Ex	Company Fed Ex	Company HSCL	Company	Company
Date/Time 5/19/17 11:30	Date/Time 5/19/17 11:30	Date/Time 5/20/17 0945	Date/Time 5/20/17 0945	Date/Time	Date/Time

Date Printed: 5/19/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal ***COC TYPE:*** *TPCB-LIPD-PEST-MERCURY* ***Page 2 of 2***

Sample Condition Upon Receipt

Pace Analytical

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

Project #: **WO#: 40150340**

40150340

Client Name: Anchor QEA

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

Tracking #: ① see below KJ 5/20/17

Custody Seal on Cooler/Box Present: ☑ yes ☐ no KJ 5/20/17 **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-73 ① **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: see below **Biological Tissue is Frozen:** ☐ yes

Temp Blank Present: ☑ yes ☐ no KJ 5/20/17 ☑ no

Person examining contents:
Date: 5/20/17
Initials: KJ

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		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. whole fish
-Pace Containers Used:	☐Yes ☑No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	KJ 5/20/17
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:

7816624586317 1°
7816624586339 4°
7816624586350 3°
7816624586317 5°
7816624586328 3°

Project Manager Review: Amt for TN **Date:** 5/20/17

F-GB-C-031-Rev.03 (9April2015) SCUR Form

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40150340
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 5°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 blank.

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

D. Spikes:
1. **Lab Control Spike (LCS):** The control spike was fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Sample AT1-170519-01-STB-10 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.

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

F. Sample Duplicate: Sample AT1-170519-01-STB-10 was designated as the duplicate for this SDG. The QAPP specified precision criteria were met. Duplicate results are not evaluated below the reporting limit.

G. Dilutions:

Sample ID	Reason for dilution
AT1-170519-01-STB-18	To bring Aroclors within instrument calibration range
AT1-170519-01-STB-17	To bring Aroclors within instrument calibration range
AT1-170519-01-STB-08	To bring Aroclors within instrument calibration range
AT1-170519-01-STB-07	To bring Aroclors within instrument calibration range
AT1-170519-01-STB-06	To bring Aroclors within instrument calibration range
AT1-170519-01-STB-01	To bring Aroclors within instrument calibration range

H. Reanalysis: Samples AT1-170519-01-STB-18, AT1-170519-01-STB-17, AT1-170519-01-STB-08, AT1-170519-01-STB-07, AT1-170519-01-STB-06, and AT1-170519-01-STB-01 were initially analyzed straight or diluted based on screener data. Upon analysis, the samples were found to require reanalysis at different dilutions to bring individual Aroclor peaks within instrument calibration range. The samples were reported with the “1q” data qualifier on the final report to note the occurrence.

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

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

Signed: Leigh A Begalske Date: 04/30/18

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.: 40150340 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1658673	1658673BLANK	88	79
1658674	1658674LCS	89	84
1658675	1658675MS	101	96
1658676	1658676DUP	104	94
40150340001	AT1-170519-01-STB-20	97	94
40150340002	AT1-170519-01-STB-19	98	97
40150340003	AT1-170519-01-STB-18	121	106
40150340004	AT1-170519-01-STB-17	0*	0*
40150340005	AT1-170519-01-STB-16	98	95
40150340006	AT1-170519-01-STB-15	100	99
40150340007	AT1-170519-01-STB-14	94	87
40150340008	AT1-170519-01-STB-13	91	83
40150340009	AT1-170519-01-STB-12	92	84
40150340010	AT1-170519-01-STB-11	98	95
40150340011	AT1-170519-01-STB-10	108	102
40150340012	AT1-170519-01-STB-09	104	103
40150340013	AT1-170519-01-STB-08	89	84
40150340014	AT1-170519-01-STB-07	122	102
40150340015	AT1-170519-01-STB-06	95	85
40150340016	AT1-170519-01-STB-05	101	93
40150340017	AT1-170519-01-STB-04	104	99
40150340018	AT1-170519-01-STB-03	98	95
40150340019	AT1-170519-01-STB-02	98	93
40150340020	AT1-170519-01-STB-01	107	93

	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: 03/14/2018

Instrument: 40GCSJ

Lab File ID: 031518.B\031518007.D

Lab Sample ID: 1658674LCS

Date Analyzed (1): 03/15/2018

LCS Lot No: 182336

SDG No.: 40150340

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	226	90	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: 03/14/2018

Instrument: 40GCSJ

Parent Sample ID: AT1-170519-01-STB-10

Matrix Spike - Sample No: 1658675MS

Date Analyzed (1): 03/15/2018

Lab File ID: 031518.B\031518008.D

SDG No.: 40150340

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	281	112	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/14/2018

Instrument 40GCSJ

Lab Sample ID: AT1-170519-01-STB-10

Duplicate Sample No: 40150340011DUP

Date Analyzed: 03/15/2018

Lab File ID: 031518.B\031518022.D

SDG No.: 40150340

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)	67.6	58.6	14	0-40
PCB-1254 (Aroclor 1254)	70.8	61.4	14	0-40
PCB-1260 (Aroclor 1260)	120	105	13	0-40

RPD: 0 out of 3 outside limits.

SAMPLE NO.

1658673BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40150340 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1658673

Lab File ID: 031518.B\031518006.D Date Analyzed: 03/15/2018 Time:14:22

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1658674LCS	1658674	031518.B\031518007.D	03/15/2018 14:38
1658675MS	1658675	031518.B\031518008.D	03/15/2018 14:54
AT1-170519-01-STB-20	40150340001	031518.B\031518009.D	03/15/2018 15:10
AT1-170519-01-STB-19	40150340002	031518.B\031518010.D	03/15/2018 15:25
AT1-170519-01-STB-16	40150340005	031518.B\031518013.D	03/15/2018 16:13
AT1-170519-01-STB-15	40150340006	031518.B\031518014.D	03/15/2018 16:29
AT1-170519-01-STB-14	40150340007	031518.B\031518015.D	03/15/2018 16:45
AT1-170519-01-STB-13	40150340008	031518.B\031518018.D	03/15/2018 17:32
AT1-170519-01-STB-12	40150340009	031518.B\031518019.D	03/15/2018 17:48
AT1-170519-01-STB-11	40150340010	031518.B\031518020.D	03/15/2018 18:04
AT1-170519-01-STB-10	40150340011	031518.B\031518021.D	03/15/2018 18:20
1658676DUP	1658676	031518.B\031518022.D	03/15/2018 18:36
AT1-170519-01-STB-09	40150340012	031518.B\031518023.D	03/15/2018 18:51
AT1-170519-01-STB-05	40150340016	031518.B\031518027.D	03/15/2018 19:55
AT1-170519-01-STB-04	40150340017	031518.B\031518030.D	03/15/2018 20:42
AT1-170519-01-STB-03	40150340018	031518.B\031518031.D	03/15/2018 20:58
AT1-170519-01-STB-02	40150340019	031518.B\031518032.D	03/15/2018 21:14
AT1-170519-01-STB-18	40150340003	032018.B\032018013.D	03/20/2018 15:42
AT1-170519-01-STB-17	40150340004	032018.B\032018014.D	03/20/2018 15:58
AT1-170519-01-STB-08	40150340013	032018.B\032018015.D	03/20/2018 16:13
AT1-170519-01-STB-07	40150340014	032018.B\032018018.D	03/20/2018 17:01
AT1-170519-01-STB-06	40150340015	032018.B\032018019.D	03/20/2018 17:17
AT1-170519-01-STB-01	40150340020	032018.B\032018020.D	03/20/2018 17:32

SAMPLE NO.

AT1-170519-01-STB-20

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340001
Date Analyzed: 03/15/2018 15:10
Lab File ID: 031518.B\031518009.D
Initial wt/vol: 9.977 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)	103	
11097-69-1	PCB-1254 (Aroclor 1254)	82.3	
11096-82-5	PCB-1260 (Aroclor 1260)	81.1	
1336-36-3	PCB, Total	266	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518009.D
Lab Smp Id: 40150340001 Client Smp ID: AT1-170519-01-STB-2
Inj Date : 15-MAR-2018 15:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340001,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
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	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	32848	20876	0.636	0.05		
1.429	11820	11085	0.938	0.01		
1.796	10949	9674	0.884	0.01		
2.011	20263	12709	0.627	0.03		
2.127	21253	14476	0.681	0.03		
2.171	19301	20827	1.079	0.03		
2.295	35062	35804	1.021	0.05		
2.317	35955	36070	1.003	0.05		
2.409	62567	46611	0.745	0.10		
2.484	11602481	11352506	0.978	19.87	$ 2 Tetrachloro-m-xylene	
2.788	23409	21813	0.932	0.03		
2.852	50302	28140	0.559	0.08		
2.924	14438	8618	0.597	0.02		
2.973	71460	51593	0.722	0.11		
3.019	34340	30725	0.895	0.05		
3.054	56719	51133	0.902	0.09		
3.317	60510	60470	0.999	0.10		
3.345	79944	75145	0.940	0.13		
3.400	16490	15728	0.954	0.02		
3.433	90768	78160	0.861	0.15		
3.519	119940	108092	0.901	0.19		
3.648	15487	12931	0.835	0.02		
3.694	17718	14215	0.802	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.732	101618	97582	0.960	0.16	
3.757	44580	44603	1.001	0.07	
3.825	389714	229046	0.588	0.64	
3.938	142779	111930	0.784	0.23	
3.993	120160	107012	0.891	0.19	
4.059	86551	54981	0.635	0.14	
4.137	26217	18301	0.698	0.04	
4.214	832366	784539	0.943	1.37	
4.262	960481	931803	0.970	1.58	6 Aroclor 1248
4.292	949474	803318	0.846	1.57	
4.348	26037	20888	0.802	0.04	
4.417	353730	336432	0.951	0.58	
4.452	281905	247740	0.879	0.46	
4.545	670267	627236	0.936	1.10	6 Aroclor 1248
4.591	63154	55401	0.877	0.10	
4.618	99203	82766	0.834	0.16	
4.680	83797	70492	0.841	0.13	
4.738	119640	92345	0.772	0.19	
4.767	143521	131128	0.914	0.23	
4.813	311590	291647	0.936	0.51	6 Aroclor 1248
4.848	348867	326867	0.937	0.57	
4.894	1163777	661361	0.568	1.92	6 Aroclor 1248
4.957	348117	301459	0.866	0.57	
5.002	29386	26882	0.915	0.04	
5.037	240662	229452	0.953	0.39	6 Aroclor 1248
5.057	84195	82411	0.979	0.13	
5.101	732403	607478	0.829	1.21	
5.162	1268792	1128905	0.890	2.09	7 Aroclor 1254
5.213	1232322	1089212	0.884	2.03	
5.253	44295	44886	1.013	0.07	
5.284	174518	149840	0.859	0.28	
5.313	442646	403183	0.911	0.73	
5.364	406262	350305	0.862	0.67	
5.407	529917	492306	0.929	0.87	7 Aroclor 1254
5.451	2361410	2261662	0.958	3.90	
5.478	116189	142276	1.225	0.19	
5.511	1280045	1057621	0.826	2.11	7 Aroclor 1254
5.578	152629	133394	0.874	0.25	
5.604	169279	126778	0.749	0.27	
5.676	533862	478697	0.897	0.88	
5.710	284349	205720	0.723	0.47	
5.742	375325	283212	0.755	0.62	
5.790	1925436	1561289	0.811	3.18	
5.822	351769	241086	0.685	0.58	
5.901	286791	160116	0.558	0.47	
5.932	139383	121966	0.875	0.23	
5.965	27899	29823	1.069	0.04	
5.994	690859	649692	0.940	1.14	
6.027	617083	534351	0.866	1.02	7 Aroclor 1254
6.056	2444978	2108332	0.862	4.04	
6.169	472486	240176	0.508	0.78	
6.244	365304	203093	0.556	0.60	
6.300	2479092	2077305	0.838	4.10	8 Aroclor 1260
6.334	208278	196680	0.944	0.34	
6.374	71116	60224	0.847	0.11	
6.432	325445	236092	0.725	0.53	
6.484	37529	45135	1.203	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.509	1196936	1086970	0.908	1.97	
6.537	441265	436667	0.990	0.72	
6.561	422903	356489	0.843	0.69	
6.605	66099	61560	0.931	0.10	
6.659	46649	46913	1.006	0.07	
6.718	239122	209275	0.875	0.39	
6.757	354250	306070	0.864	0.58	
6.802	300290	274976	0.916	0.49	
6.840	224674	197602	0.880	0.37	
6.887	15680	18084	1.153	0.02	
6.913	76542	76747	1.003	0.12	
6.943	499427	493384	0.988	0.82	
7.005	1140387	1039894	0.912	1.88	8 Aroclor 1260
7.034	104553	84628	0.809	0.17	
7.075	22282	15228	0.683	0.03	
7.124	44733	26011	0.581	0.07	
7.251	465000	415974	0.895	0.76	8 Aroclor 1260
7.280	136141	105974	0.778	0.22	
7.334	19465	15420	0.792	0.03	
7.366	16741	20748	1.239	0.02	
7.390	439082	401218	0.914	0.72	
7.443	517447	444558	0.859	0.85	8 Aroclor 1260
7.493	59337	41869	0.706	0.09	
7.526	23615	17381	0.736	0.03	
7.559	52167	38679	0.741	0.08	
7.616	15479	12596	0.814	0.02	
7.658	15243	14055	0.922	0.02	
7.693	98034	95193	0.971	0.16	
7.727	227506	204483	0.899	0.37	
7.767	38503	28482	0.740	0.06	
7.811	195604	116979	0.598	0.32	
7.867	15868	14079	0.887	0.02	
7.901	370076	313760	0.848	0.61	8 Aroclor 1260
7.962	57383	32375	0.564	0.09	
8.185	13267	9950	0.750	0.02	
8.275	467728	421829	0.902	0.77	
8.379	38482	32017	0.832	0.06	
8.454	14490	12638	0.872	0.02	
8.572	10664209	9267275	0.869	17.63	$ 12 Decachlorobiphenyl
8.704	16620	17257	1.038	0.02	
8.725	54968	46976	0.855	0.09	
8.943	17517	11392	0.650	0.02	
9.171	66426	55401	0.834	0.10	
9.467	21220	11801	0.556	0.03	
9.700	10057	9844	0.979	0.01	
9.735	21194	14178	0.669	0.03	
9.956	20437	11667	0.571	0.03	
	60458605	53292404		100.000	

Total unknown % area = 43

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518009.D
Lab Smp Id: 40150340001 Client Smp ID: AT1-170519-01-STB-2
Inj Date : 15-MAR-2018 15:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340001,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9
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	9.977	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	11602481	0.09410	47			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	960481	0.40994	200	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	670266	0.16150	81	0.00- 20.00	69.78	CO
4.812	4.812	0.000	311590	0.15349	77	0.00- 20.00	32.44	CO
4.894	4.879	0.015	1163777	0.23103	120	0.00- 20.00	121.17	CO
5.037	5.038	-0.001	240662	0.06706	34	0.00- 20.00	25.06	CO
			Average of Peak Concentrations =		100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1268791	0.24236	120	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	529917	0.12321	62	0.00- 20.00	41.77	BA
5.510	5.510	0.000	1280044	0.16483	83	0.00- 20.00	100.89	BA
6.026	6.027	-0.001	617083	0.12672	64	0.00- 20.00	48.64	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		82			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	2479091	0.27973	140	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	1140387	0.11388	57	0.00- 20.00	46.00	BA
7.250	7.251	-0.001	465000	0.09728	49	0.00- 20.00	18.76	BA
7.442	7.443	-0.001	517447	0.17751	89	0.00- 20.00	20.87	BA
7.901	7.901	0.000	370076	0.14025	70	0.00- 20.00	14.93	BA
			Average of Peak Concentrations =		81			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10664208	0.09734	49			

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\031518.b\031518009.D

Date : 15-MAR-2018 15:10

Client ID: AT1-170519-01-STB-2

Instrument: 40GCSJ.i

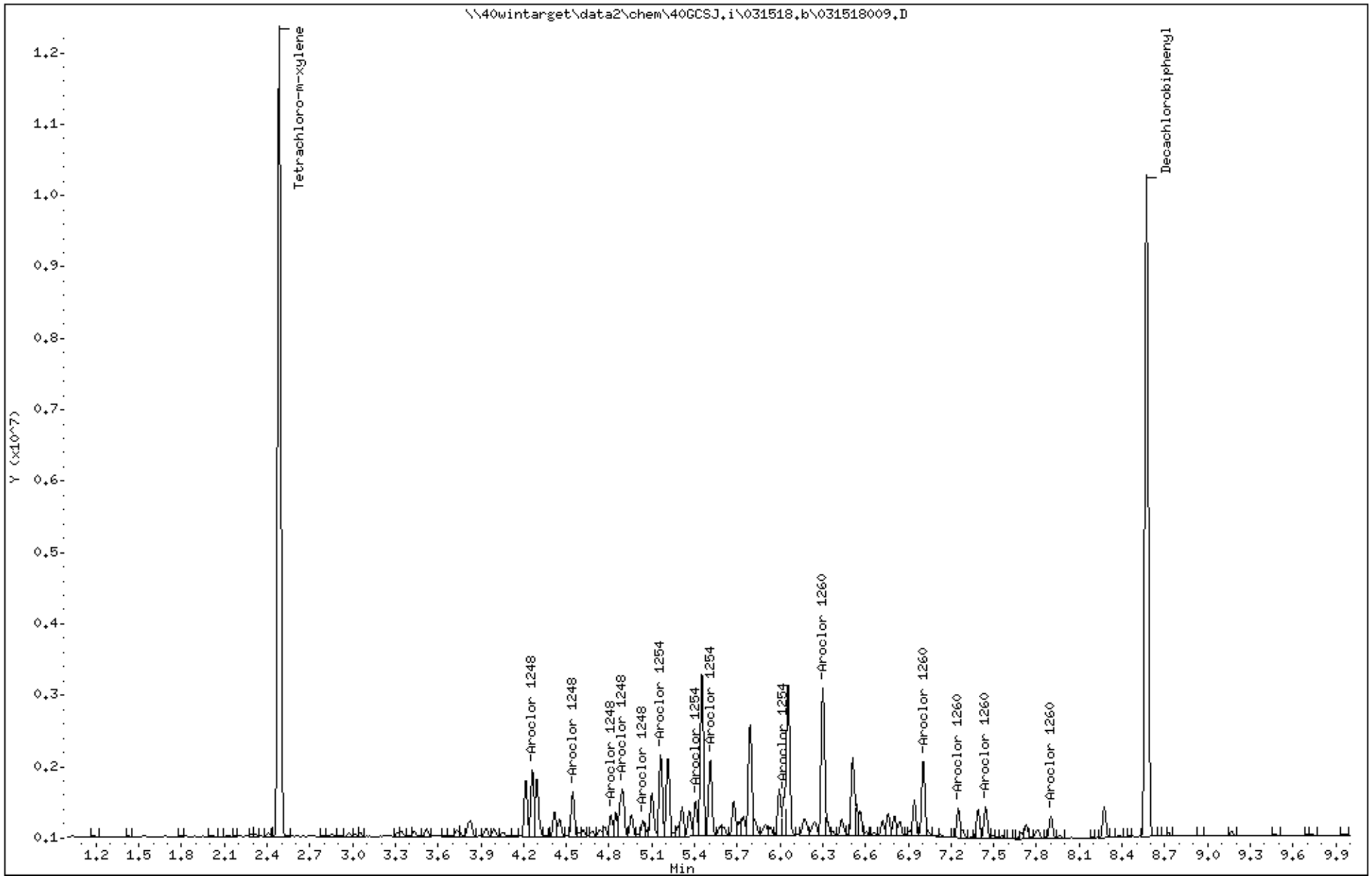
Sample Info: 40150340001,

Volume Injected (uL): 1.0

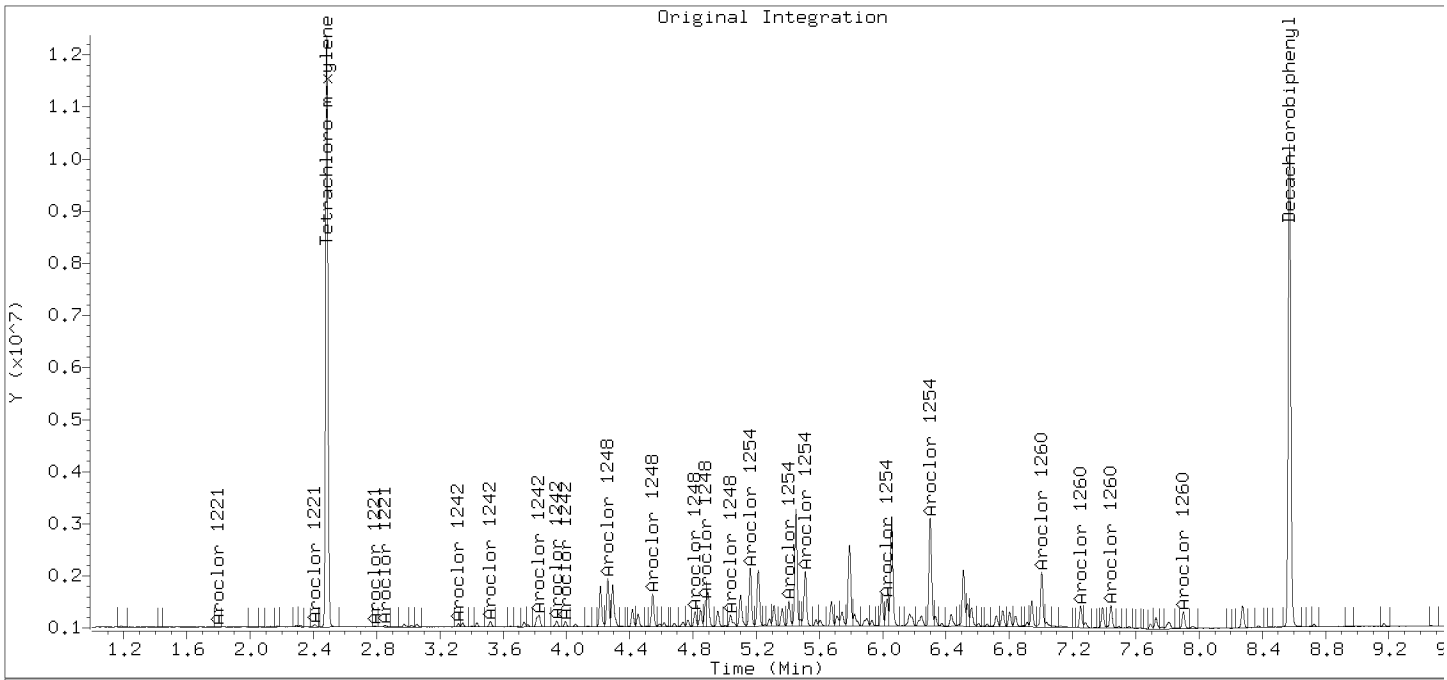
Operator: BLM

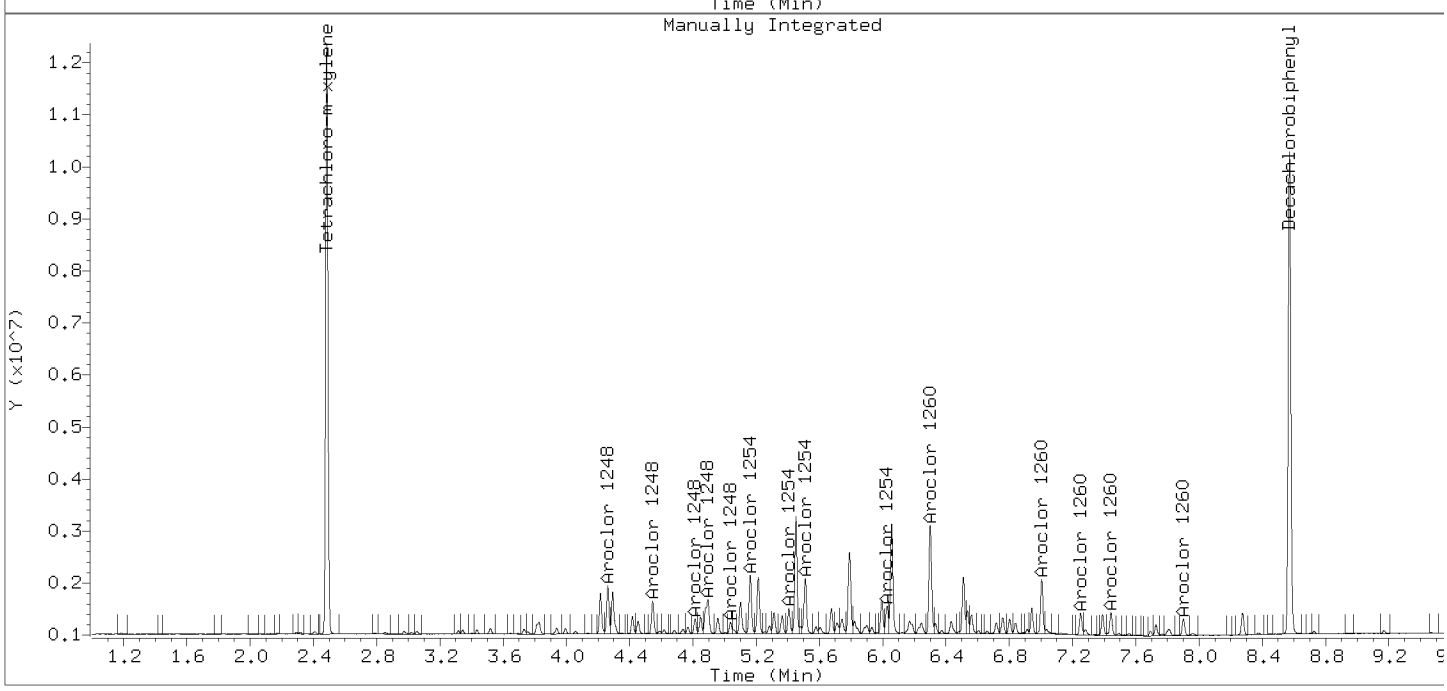
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 15:10 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	60509	0	
Aroclor 1016	60509	0	
Aroclor 1016	60509	0	
Aroclor 1016	60509	0	
Aroclor 1016	60509	0	
Aroclor 1221	10948	0	
Aroclor 1221	10948	0	
Aroclor 1221	10948	0	
Aroclor 1221	10948	0	
Aroclor 1221	10948	0	
Aroclor 1232	50302	0	
Aroclor 1232	50302	0	
Aroclor 1232	50302	0	
Aroclor 1232	50302	0	

Aroclor 1232	50302	0	
Aroclor 1242	60509	0	
Aroclor 1242	60509	0	
Aroclor 1242	60509	0	
Aroclor 1242	60509	0	
Aroclor 1242	60509	0	
Aroclor 1248	952994	960481	CO
Aroclor 1248	952994	960481	CO
Aroclor 1248	952994	960481	CO
Aroclor 1248	952994	960481	CO
Aroclor 1248	952994	960481	CO
Aroclor 1254	1243556	1268791	BA
Aroclor 1254	1243556	1268791	BA
Aroclor 1254	1243556	1268791	BA
Aroclor 1254	1243556	1268791	BA
Aroclor 1254	1243556	1268791	BA
Aroclor 1260	2453344	2479091	BA
Aroclor 1260	2453344	2479091	BA
Aroclor 1260	2453344	2479091	BA
Aroclor 1260	2453344	2479091	BA
Aroclor 1260	2453344	2479091	BA
Tetrachloro-m-xylene	11602481	11602481	
Decachlorobiphenyl	10664208	10664208	

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SAMPLE NO.

AT1-170519-01-STB-19

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340002
Date Analyzed: 03/15/2018 15:25
Lab File ID: 031518.B\031518010.D
Initial wt/vol: 9.9615 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)	56.1	
11097-69-1	PCB-1254 (Aroclor 1254)	55.2	
11096-82-5	PCB-1260 (Aroclor 1260)	80.9	
1336-36-3	PCB, Total	192	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518010.D
Lab Smp Id: 40150340002 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 15:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340002,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.961	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.067	12003	9827	0.819	0.02		
1.097	18361	10590	0.577	0.03		
1.156	15170	14651	0.966	0.02		
1.184	25062	12146	0.485	0.04		
1.426	20004	12959	0.648	0.03		
1.541	20647	11836	0.573	0.03		
1.686	18218	14385	0.790	0.03		
1.800	18703	16745	0.895	0.03		
1.830	15375	10685	0.695	0.02		
1.952	13536	9119	0.674	0.02		
2.061	9295	7580	0.816	0.01		
2.130	30032	21322	0.710	0.05		
2.168	35109	32417	0.923	0.06		
2.209	15912	12713	0.799	0.02		
2.253	10204	11309	1.108	0.01		
2.292	47677	46842	0.982	0.08		
2.315	53317	53693	1.007	0.09		
2.355	11340	9193	0.811	0.02		
2.410	138830	105373	0.759	0.25		
2.484	11951887	11774606	0.985	22.23	$ 2 Tetrachloro-m-xylene	
2.789	31833	27741	0.871	0.05		
2.833	21277	25579	1.202	0.03		
2.853	60183	42455	0.705	0.10		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.974	122683	82893	0.676	0.22	
3.018	61396	61089	0.995	0.11	
3.053	112978	105946	0.938	0.20	
3.316	98108	96070	0.979	0.17	
3.342	97735	86894	0.889	0.17	
3.397	19549	16544	0.846	0.03	
3.433	146871	128695	0.876	0.26	
3.518	169009	143031	0.846	0.30	
3.648	18926	13128	0.694	0.03	
3.731	110611	79043	0.715	0.19	
3.814	343648	198746	0.578	0.62	
3.937	122522	94753	0.773	0.22	
3.994	88533	82207	0.929	0.15	
4.058	79267	52919	0.668	0.14	
4.137	29178	20069	0.688	0.05	
4.215	427180	393654	0.922	0.77	
4.261	441725	424601	0.961	0.79	6 Aroclor 1248
4.292	422597	337445	0.799	0.76	
4.347	29784	19107	0.642	0.05	
4.416	235642	210169	0.892	0.42	
4.452	159486	141827	0.889	0.28	
4.500	28673	17989	0.627	0.05	
4.544	341384	300618	0.881	0.61	6 Aroclor 1248
4.589	31430	27726	0.882	0.05	
4.617	66085	55260	0.836	0.11	
4.682	52975	36629	0.691	0.09	
4.737	66536	52659	0.791	0.12	
4.768	63904	57471	0.899	0.11	
4.812	209888	191235	0.911	0.37	6 Aroclor 1248
4.848	223372	210061	0.940	0.40	
4.893	688419	362354	0.526	1.24	6 Aroclor 1248
4.956	186924	148043	0.792	0.33	
5.004	25910	23085	0.891	0.04	
5.037	171188	159385	0.931	0.30	6 Aroclor 1248
5.057	60622	60844	1.004	0.10	
5.100	444212	349873	0.788	0.80	
5.161	863151	761004	0.882	1.55	7 Aroclor 1254
5.213	987300	881100	0.892	1.78	
5.252	29010	28595	0.986	0.05	
5.284	117097	102368	0.874	0.21	
5.312	405132	372975	0.921	0.73	
5.362	272650	232048	0.851	0.49	
5.406	332830	301012	0.904	0.60	7 Aroclor 1254
5.451	2185074	2015192	0.922	3.94	
5.509	781491	637044	0.815	1.41	7 Aroclor 1254
5.578	145698	116618	0.800	0.26	
5.604	138832	106458	0.767	0.25	
5.674	403266	354766	0.880	0.72	
5.709	205844	157529	0.765	0.37	
5.741	333061	238085	0.715	0.60	
5.790	1647290	1368039	0.830	2.97	
5.822	256088	180563	0.705	0.46	
5.898	255443	163684	0.641	0.46	
5.931	118911	102480	0.862	0.21	
5.963	34070	36444	1.070	0.06	
5.994	702975	637609	0.907	1.26	
6.026	471899	429845	0.911	0.85	7 Aroclor 1254

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.055	2468278	2114435	0.857	4.45	
6.168	445079	204253	0.459	0.80	
6.245	351002	191534	0.546	0.63	
6.300	2250313	1830987	0.814	4.06	8 Aroclor 1260
6.333	188514	169495	0.899	0.34	
6.375	61785	46493	0.753	0.11	
6.433	364104	240697	0.661	0.65	
6.483	51775	54555	1.054	0.09	
6.509	1276014	1150922	0.902	2.30	
6.535	384120	374713	0.976	0.69	
6.560	412575	363466	0.881	0.74	
6.604	104350	70031	0.671	0.18	
6.661	48262	43372	0.899	0.08	
6.718	210098	181257	0.863	0.37	
6.759	383828	324944	0.847	0.69	
6.802	314276	276308	0.879	0.56	
6.838	293091	256254	0.874	0.52	
6.885	27443	24801	0.904	0.04	
6.913	93561	94928	1.015	0.16	
6.943	391522	360575	0.921	0.70	
7.005	1253786	1120599	0.894	2.26	8 Aroclor 1260
7.037	118623	89283	0.753	0.21	
7.120	29095	22983	0.790	0.05	
7.251	465439	412062	0.885	0.84	8 Aroclor 1260
7.281	136918	105572	0.771	0.24	
7.336	23793	18461	0.776	0.04	
7.389	562317	480568	0.855	1.01	
7.443	528510	449775	0.851	0.95	8 Aroclor 1260
7.492	60108	39205	0.652	0.10	
7.527	17359	16454	0.948	0.03	
7.559	66147	45455	0.687	0.11	
7.619	26415	15613	0.591	0.04	
7.692	100622	96462	0.959	0.18	
7.728	294528	259008	0.879	0.53	
7.763	37615	32831	0.873	0.06	
7.805	170254	100200	0.589	0.30	
7.867	12671	13629	1.076	0.02	
7.900	390261	333037	0.853	0.70	8 Aroclor 1260
7.961	54161	34736	0.641	0.09	
8.049	16179	13922	0.861	0.02	
8.195	11737	9886	0.842	0.02	
8.274	542192	497873	0.918	0.97	
8.377	57239	45662	0.798	0.10	
8.447	9320	11802	1.266	0.01	
8.571	10789841	9515969	0.882	19.47	$ 12 Decachlorobiphenyl
8.702	18451	16500	0.894	0.03	
8.727	49332	44074	0.893	0.08	
8.939	17728	10958	0.618	0.03	
9.054	10235	9315	0.910	0.01	
9.168	59949	50288	0.839	0.10	
9.332	9393	7550	0.804	0.01	
9.466	12719	12448	0.979	0.02	
9.699	14373	13215	0.919	0.02	
9.739	17271	15042	0.871	0.03	
9.852	9582	7571	0.790	0.01	
	55394184	48701314		100.000	

Total unknown % area = 42

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518010.D
Lab Smp Id: 40150340002 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 15:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340002,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.961	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	11951886	0.09694	49			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								BA
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								BA

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	441724	0.18853	95	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	341383	0.08225	41	0.00- 20.00	77.28	CO
4.812	4.812	0.000	209888	0.10339	52	0.00- 20.00	47.52	CO
4.892	4.879	0.013	688419	0.13666	68	0.00- 20.00	155.85	CO
5.036	5.038	-0.002	171187	0.04770	24	0.00- 20.00	38.75	CO
		Average of Peak Concentrations =			56			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	863150	0.16487	83	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	332829	0.07738	39	0.00- 20.00	38.56	BA
5.509	5.510	-0.001	781491	0.10063	50	0.00- 20.00	90.54	BA
6.025	6.027	-0.002	471898	0.09691	49	0.00- 20.00	54.67	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			55			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	2250312	0.25392	130	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1253786	0.12520	63	0.00- 20.00	55.72	BA
7.250	7.251	-0.001	465438	0.09738	49	0.00- 20.00	20.68	BA
7.442	7.443	-0.001	528509	0.18130	91	0.00- 20.00	23.49	BA
7.900	7.901	-0.001	390260	0.14790	74	0.00- 20.00	17.34	BA
		Average of Peak Concentrations =			81			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10789840	0.09848	49			

QC Flag Legend

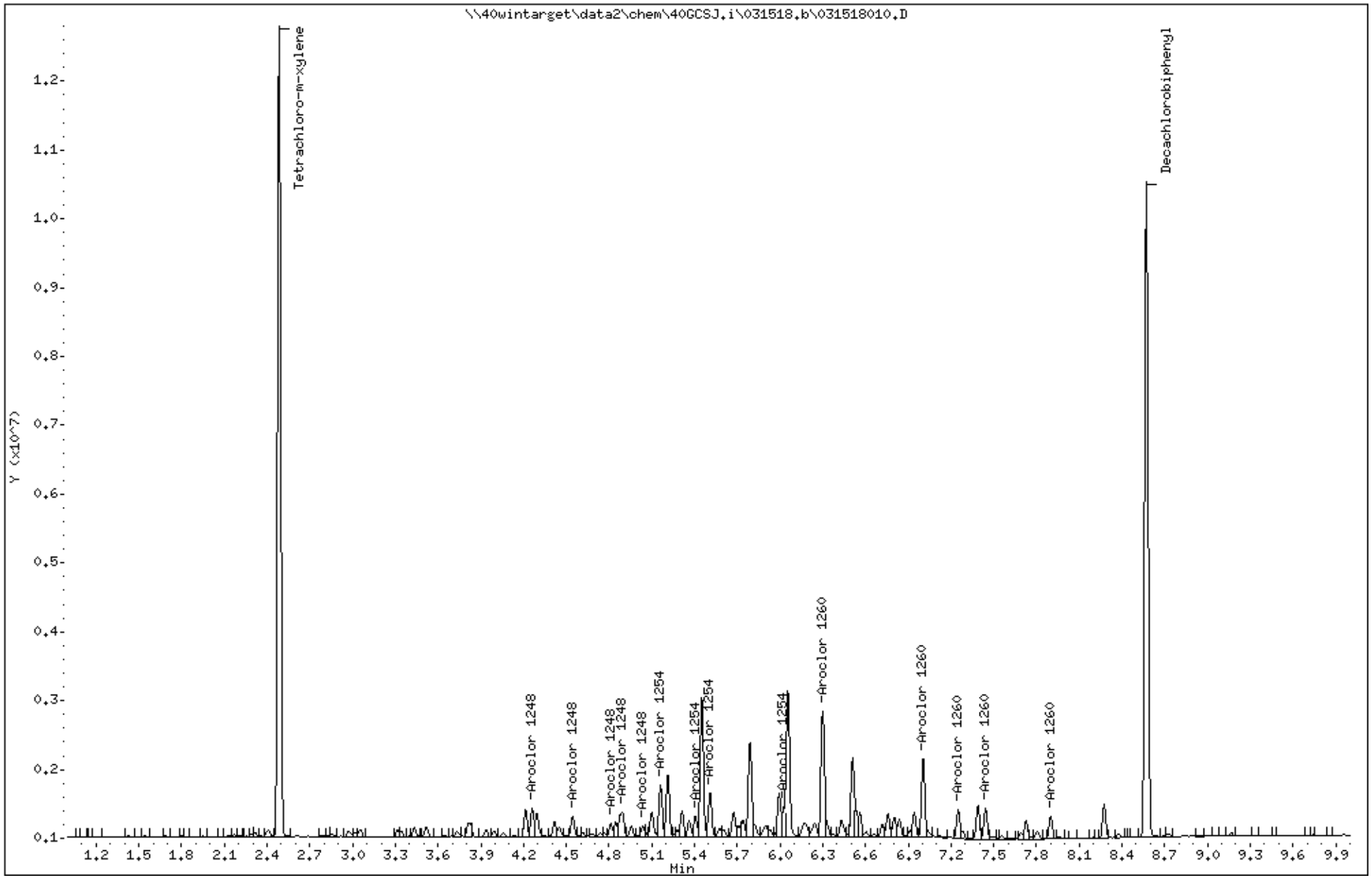
M - Compound response manually integrated.

Review Codes Legend

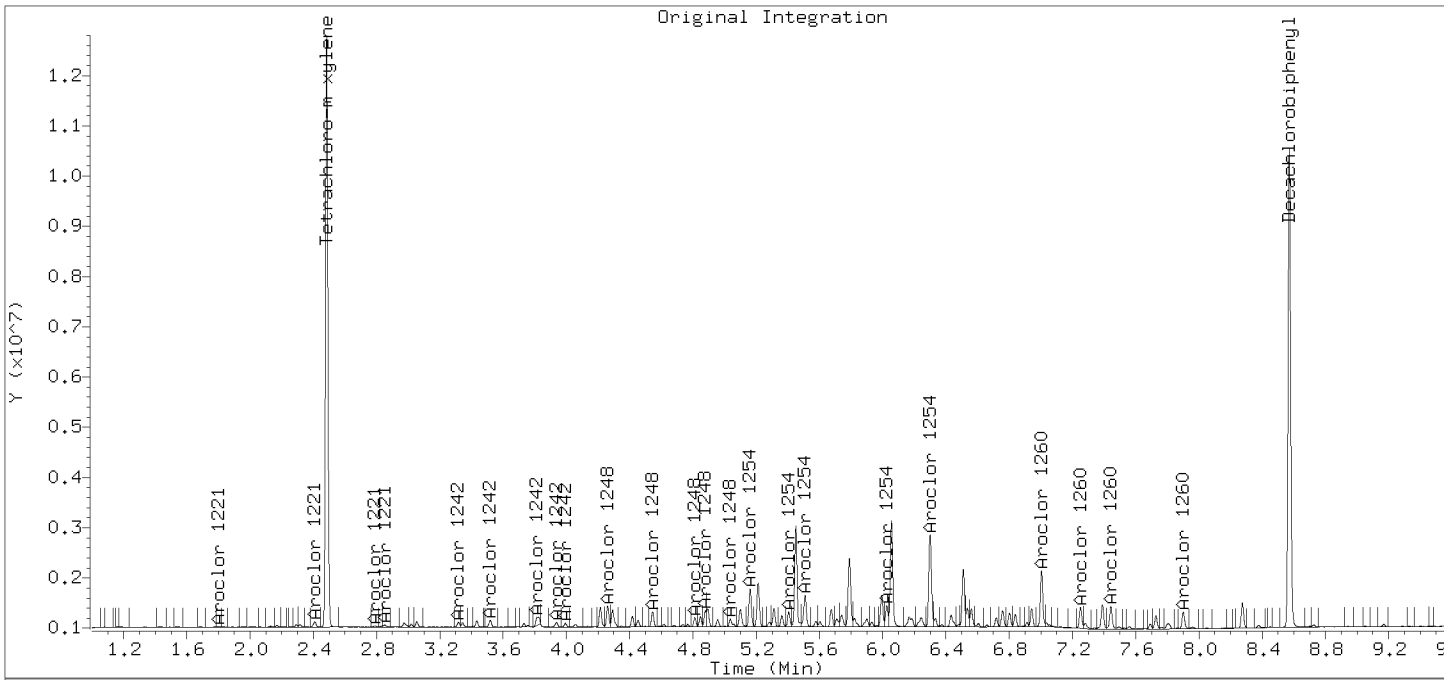
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

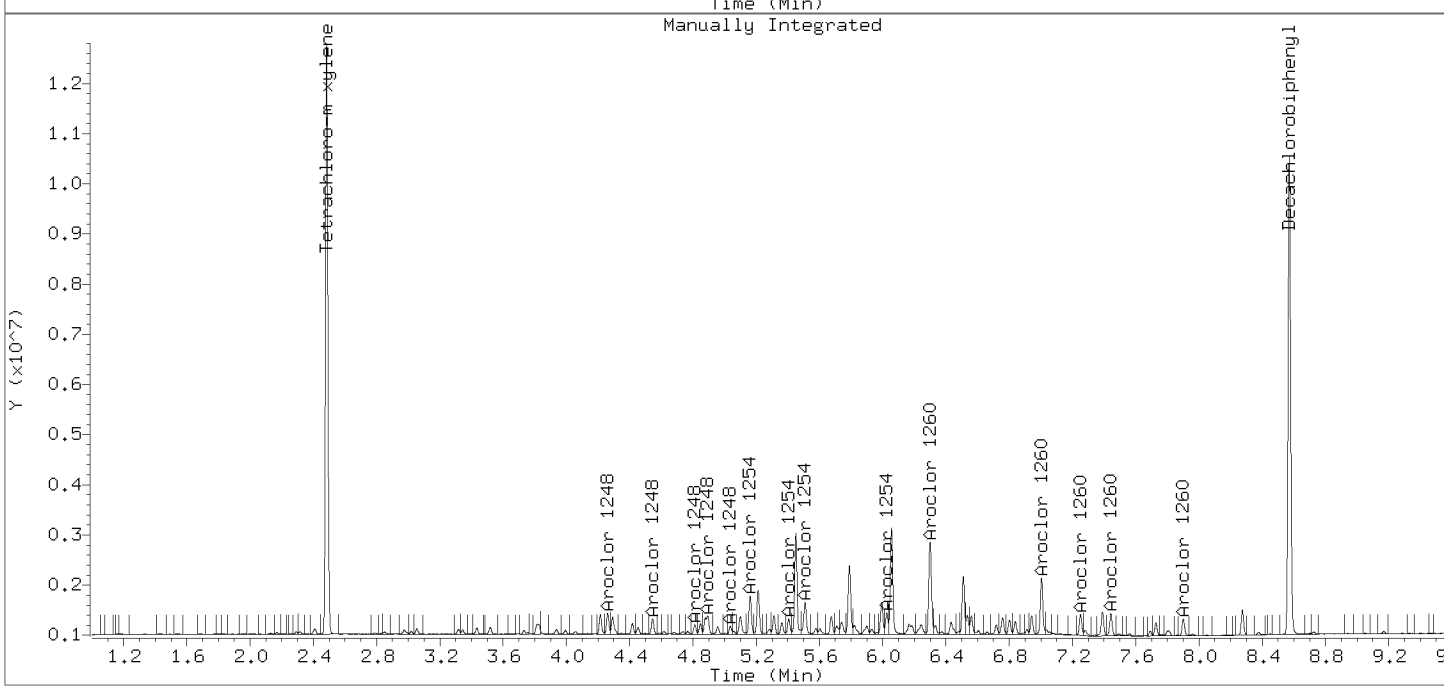
Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518010.D
Date : 15-MAR-2018 15:25
Client ID: AT1-170519-01-STB-1
Sample Info: 40150340002,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 15:25 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	98107	0	BA
Aroclor 1016	98107	0	BA
Aroclor 1016	98107	0	BA
Aroclor 1016	98107	0	BA
Aroclor 1016	98107	0	BA
Aroclor 1221	18703	0	
Aroclor 1221	18703	0	
Aroclor 1221	18703	0	
Aroclor 1221	18703	0	
Aroclor 1221	18703	0	
Aroclor 1232	60183	0	BA
Aroclor 1232	60183	0	BA
Aroclor 1232	60183	0	BA
Aroclor 1232	60183	0	BA

Aroclor 1232	60183	0	BA
Aroclor 1242	98107	0	BA
Aroclor 1242	98107	0	BA
Aroclor 1242	98107	0	BA
Aroclor 1242	98107	0	BA
Aroclor 1242	98107	0	BA
Aroclor 1248	433744	441724	CO
Aroclor 1248	433744	441724	CO
Aroclor 1248	433744	441724	CO
Aroclor 1248	433744	441724	CO
Aroclor 1248	433744	441724	CO
Aroclor 1254	843386	863150	BA
Aroclor 1254	843386	863150	BA
Aroclor 1254	843386	863150	BA
Aroclor 1254	843386	863150	BA
Aroclor 1254	843386	863150	BA
Aroclor 1260	2217671	2250312	BA
Aroclor 1260	2217671	2250312	BA
Aroclor 1260	2217671	2250312	BA
Aroclor 1260	2217671	2250312	BA
Aroclor 1260	2217671	2250312	BA
Tetrachloro-m-xylene	11951886	11951886	
Decachlorobiphenyl	10789840	10789840	

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SAMPLE NO.

AT1-170519-01-STB-18

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340003
Date Analyzed: 03/20/2018 15:42
Lab File ID: 032018.B\032018013.D
Initial wt/vol: 10.0071 Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.6	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.6	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	781	
11097-69-1	PCB-1254 (Aroclor 1254)	654	
11096-82-5	PCB-1260 (Aroclor 1260)	362	
1336-36-3	PCB, Total	1800	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018013.D
Lab Smp Id: 40150340003 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 20-MAR-2018 15:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340003 x4,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.007	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.159	12996	14203	1.093	0.01		
1.496	10650	6911	0.649	0.01		
1.804	10450	8485	0.812	0.01		
1.952	26217	14097	0.538	0.03		
2.064	10680	8275	0.775	0.01		
2.119	9621	6830	0.710	0.01		
2.292	10118	10426	1.030	0.01		
2.317	16217	14925	0.920	0.02		
2.409	132067	113026	0.856	0.19		
2.484	3272355	3189860	0.975	4.81	$ 2 Tetrachloro-m-xylene	
2.792	30584	28699	0.938	0.04		
2.835	14750	23911	1.621	0.02		
2.852	57795	46244	0.800	0.08		
2.974	133003	76605	0.576	0.19		
3.019	48878	49935	1.022	0.07		
3.054	106174	99530	0.937	0.15		
3.318	278063	278394	1.001	0.40		
3.345	237666	219895	0.925	0.34		
3.433	180270	153195	0.850	0.26		
3.519	281837	255973	0.908	0.41		
3.647	24331	21118	0.868	0.03		
3.732	657455	665593	1.012	0.96		
3.757	477346	450178	0.943	0.70		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.826	2044904	1230927	0.602	3.00	
3.938	311121	214888	0.691	0.45	
3.994	269884	252903	0.937	0.39	
4.058	109622	91430	0.834	0.16	
4.136	42426	40013	0.943	0.06	
4.215	1837291	1722241	0.937	2.70	
4.261	2027976	1880909	0.927	2.98	6 Aroclor 1248
4.292	1494276	1219542	0.816	2.19	
4.346	30081	23655	0.786	0.04	
4.418	781330	741556	0.949	1.14	
4.453	560702	525164	0.937	0.82	
4.497	22063	18657	0.846	0.03	
4.545	1186368	1100072	0.927	1.74	6 Aroclor 1248
4.588	91670	85861	0.937	0.13	
4.617	141951	131124	0.924	0.20	
4.681	123621	113310	0.917	0.18	
4.736	211739	142155	0.671	0.31	
4.768	134088	128079	0.955	0.19	
4.812	574201	551557	0.961	0.84	6 Aroclor 1248
4.848	617794	582973	0.944	0.90	
4.894	2033039	1130859	0.556	2.98	6 Aroclor 1248
4.957	619021	552057	0.892	0.91	
5.004	33613	33955	1.010	0.04	
5.037	420542	394212	0.937	0.61	6 Aroclor 1248
5.054	81757	96387	1.179	0.12	
5.100	1122513	942641	0.840	1.65	
5.162	2069732	1786085	0.863	3.04	7 Aroclor 1254
5.213	2154982	1864480	0.865	3.16	
5.254	62420	57254	0.917	0.09	
5.283	282753	255345	0.903	0.41	
5.312	559449	514627	0.920	0.82	
5.363	620428	566559	0.913	0.91	
5.407	761820	691991	0.908	1.12	7 Aroclor 1254
5.451	2888378	2784107	0.964	4.24	
5.479	183122	204384	1.116	0.26	
5.510	2238010	1881802	0.841	3.29	7 Aroclor 1254
5.577	216614	195975	0.905	0.31	
5.603	210427	165122	0.785	0.30	
5.675	658345	628046	0.954	0.96	
5.710	415774	313447	0.754	0.61	
5.742	592129	445454	0.752	0.87	
5.790	3236437	2610164	0.806	4.75	
5.820	369287	333567	0.903	0.54	
5.885	183388	173734	0.947	0.26	
5.898	209389	201587	0.963	0.30	
5.933	204641	180398	0.882	0.30	
5.994	1062765	984771	0.927	1.56	
6.027	894995	792707	0.886	1.31	7 Aroclor 1254
6.056	4045832	3432437	0.848	6.53	
6.169	611597	339681	0.555	0.89	
6.243	511352	279972	0.548	0.75	
6.300	3853955	3194570	0.829	5.66	7 Aroclor 1254
6.333	378189	325193	0.860	0.55	
6.373	97570	83951	0.860	0.14	
6.432	418921	301389	0.719	0.61	
6.510	1695423	1442978	0.851	2.49	
6.535	725616	712833	0.982	1.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.560	626032	530977	0.848	0.92	
6.604	169411	124918	0.737	0.24	
6.659	61327	58786	0.959	0.09	
6.717	294248	267331	0.909	0.43	
6.758	422942	357030	0.844	0.62	
6.802	492904	448124	0.909	0.72	
6.839	313488	266001	0.849	0.46	
6.912	94502	96245	1.018	0.13	
6.943	632212	604895	0.957	0.92	
7.005	1748189	1536561	0.879	2.57	8 Aroclor 1260
7.034	119883	132544	1.106	0.17	
7.122	23693	20093	0.848	0.03	
7.251	676477	596183	0.881	0.99	8 Aroclor 1260
7.281	194985	156931	0.805	0.28	
7.336	16830	15961	0.948	0.02	
7.363	18708	23166	1.238	0.02	
7.390	550995	499806	0.907	0.81	
7.442	694854	582545	0.838	1.02	8 Aroclor 1260
7.495	78051	51691	0.662	0.11	
7.530	26663	26016	0.976	0.03	
7.556	81593	51932	0.636	0.11	
7.615	18031	13653	0.757	0.02	
7.692	126596	116079	0.917	0.18	
7.727	228143	206537	0.905	0.33	
7.763	29865	29253	0.980	0.04	
7.811	236349	149695	0.633	0.34	
7.861	20392	18980	0.931	0.02	
7.901	450921	383323	0.850	0.66	8 Aroclor 1260
7.962	61921	37510	0.606	0.09	
8.046	26077	17269	0.662	0.03	
8.103	10491	8490	0.809	0.01	
8.193	17215	13560	0.788	0.02	
8.275	493356	431292	0.874	0.72	
8.378	34188	25620	0.749	0.05	
8.448	13322	11087	0.832	0.01	
8.571	3326564	2791307	0.839	4.89	$ 12 Decachlorobiphenyl
8.699	29024	25956	0.894	0.04	
8.725	88460	68671	0.776	0.13	
9.053	9783	9440	0.965	0.01	
9.168	51109	41186	0.806	0.07	
9.701	11200	10876	0.971	0.01	
9.737	21052	16252	0.772	0.03	
	68018900	58321817		100.000	

Total unknown % area = 61

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018013.D
Lab Smp Id: 40150340003 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 20-MAR-2018 15:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340003 x4,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.007	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	3272355	0.02654		53		

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	2027976	0.86556	1700	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	1186368	0.28585	570	0.00- 20.00	58.50	CO
4.812	4.812	0.000	574200	0.28285	560	0.00- 20.00	28.31	CO
4.893	4.879	0.014	2033038	0.40359	810	0.00- 20.00	100.25	CO
5.036	5.038	-0.002	420542	0.11719	230	0.00- 20.00	20.74	CO
Average of Peak Concentrations =					780			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2069731	0.39535	790	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	761820	0.17712	350	0.00- 20.00	36.81	BA
5.509	5.510	-0.001	2238009	0.28818	580	0.00- 20.00	108.13	BA
6.026	6.027	-0.001	894994	0.18379	370	0.00- 20.00	43.24	BA
6.299	6.299	0.000	3853954	0.59227	1200	0.00- 20.00	186.21	BA
Average of Peak Concentrations =					650			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.004	7.006	-0.002	1748188	0.17457	350	0.00- 20.00	48.42	CO
7.250	7.251	-0.001	676477	0.14153	280	0.00- 20.00	17.55	CO
7.441	7.443	-0.002	694853	0.23836	480	0.00- 20.00	18.03	CO
7.900	7.901	-0.001	450920	0.17088	340	0.00- 20.00	11.70	CO
Average of Peak Concentrations =					360			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3326563	0.03036	61			

QC Flag Legend

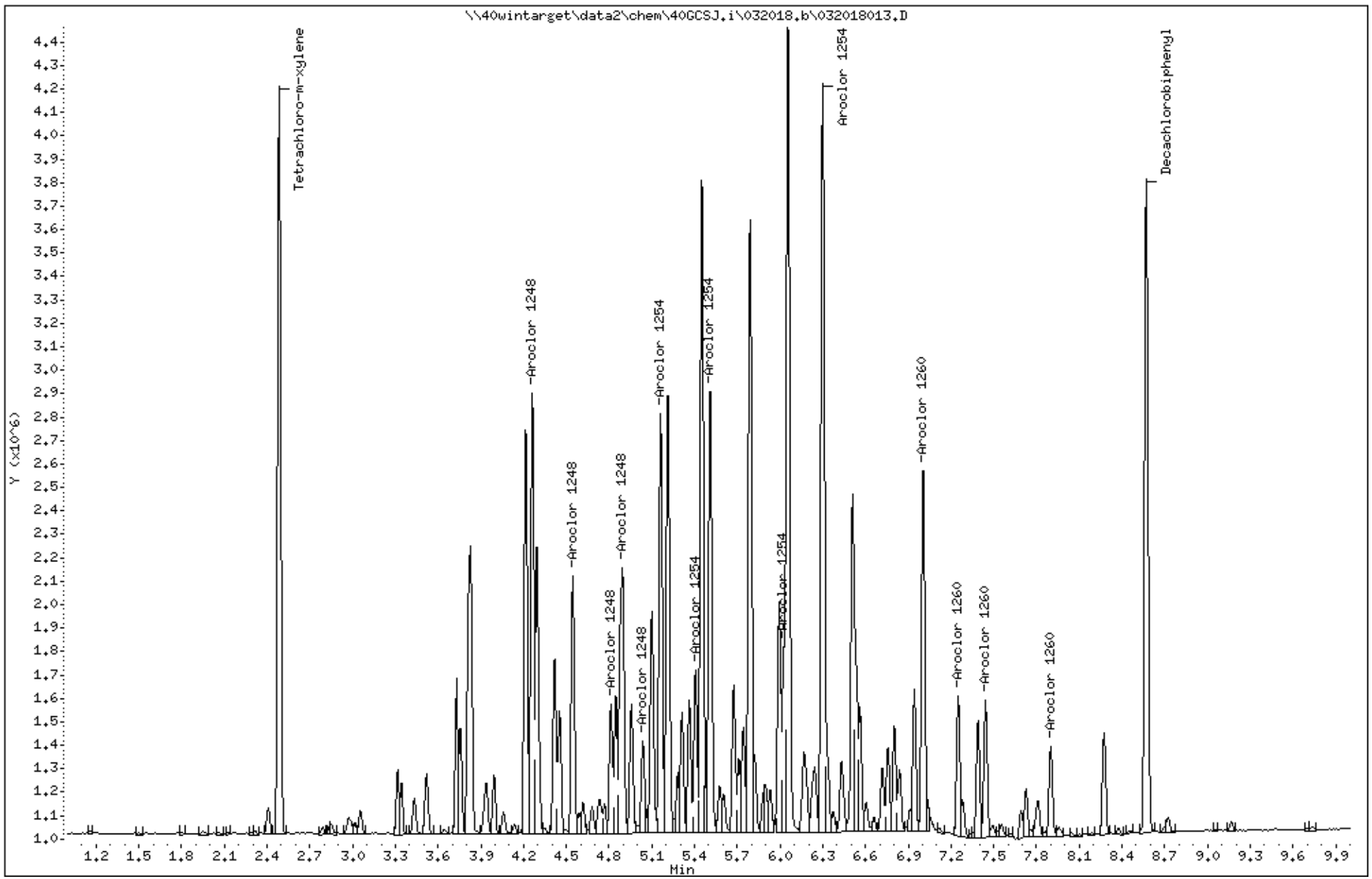
M - Compound response manually integrated.

Review Codes Legend

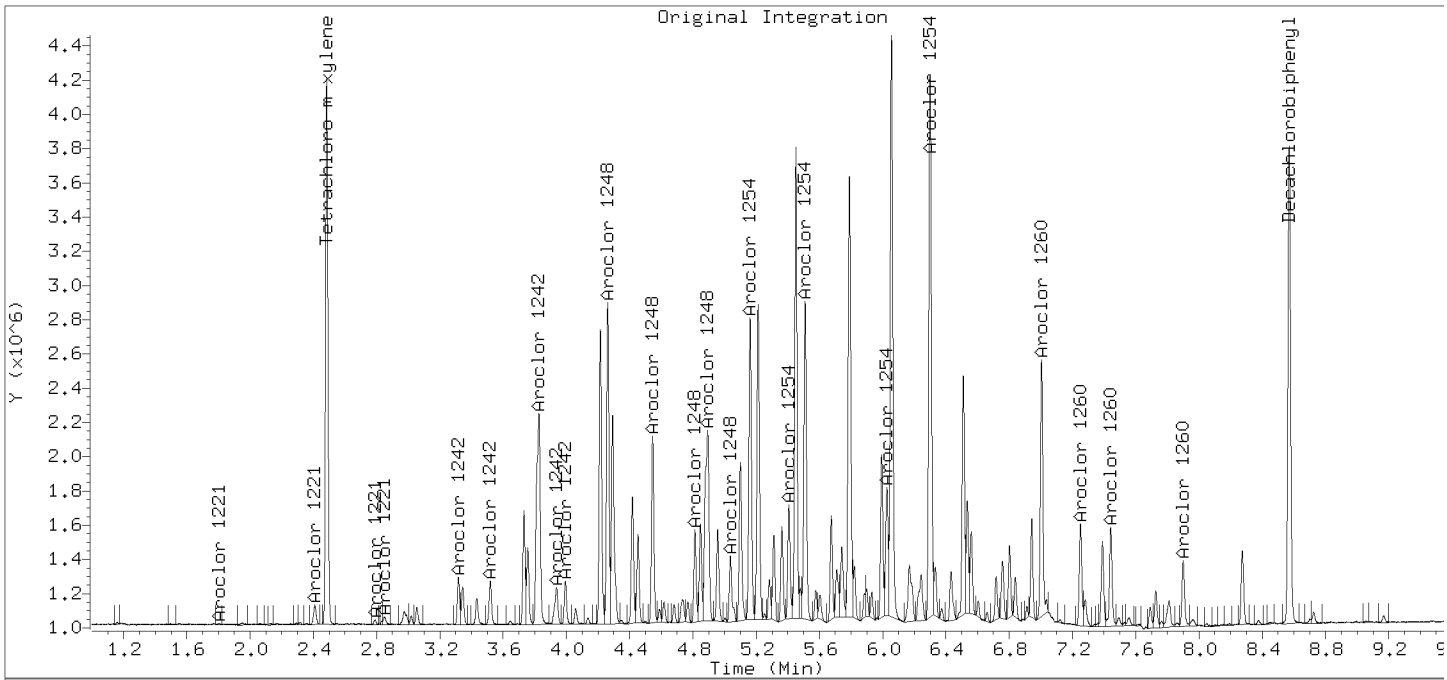
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

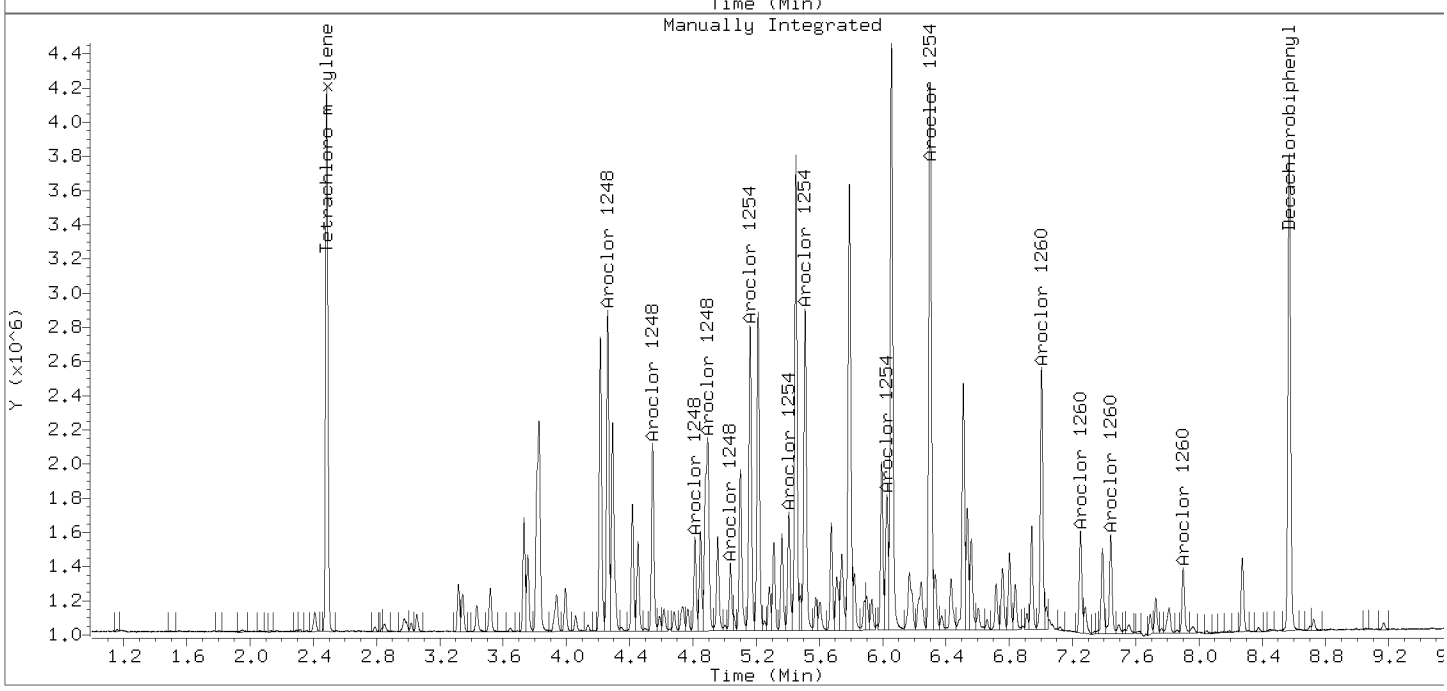
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018013.D
Date : 20-MAR-2018 15:42
Client ID: AT1-170519-01-STB-1
Sample Info: 40150340003 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 15:42 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	278063	0	
Aroclor 1016	278063	0	
Aroclor 1016	278063	0	
Aroclor 1016	278063	0	
Aroclor 1016	278063	0	
Aroclor 1221	10449	0	
Aroclor 1221	10449	0	
Aroclor 1221	10449	0	
Aroclor 1221	10449	0	
Aroclor 1221	10449	0	
Aroclor 1232	57795	0	
Aroclor 1232	57795	0	
Aroclor 1232	57795	0	
Aroclor 1232	57795	0	

Aroclor 1232	57795	0	
Aroclor 1242	278063	0	
Aroclor 1242	278063	0	
Aroclor 1242	278063	0	
Aroclor 1242	278063	0	
Aroclor 1242	278063	0	
Aroclor 1248	2021052	2027976	CO
Aroclor 1248	2021052	2027976	CO
Aroclor 1248	2021052	2027976	CO
Aroclor 1248	2021052	2027976	CO
Aroclor 1248	2021052	2027976	CO
Aroclor 1254	1999831	2069731	BA
Aroclor 1254	1999831	2069731	BA
Aroclor 1254	1999831	2069731	BA
Aroclor 1254	1999831	2069731	BA
Aroclor 1254	1999831	2069731	BA
Aroclor 1260	3754435	0	CO
Aroclor 1260	3754435	0	CO
Aroclor 1260	3754435	0	CO
Aroclor 1260	3754435	0	CO
Aroclor 1260	3754435	0	CO
Tetrachloro-m-xylene	3272355	3272355	
Decachlorobiphenyl	3326563	3326563	

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SAMPLE NO.

AT1-170519-01-STB-17

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340004
Date Analyzed: 03/20/2018 15:58
Lab File ID: 032018.B\032018014.D
Initial wt/vol: 9.9785 g Final wt/vol: 5 mL Dilution: 20
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<228	U
11104-28-2	PCB-1221 (Aroclor 1221)	<228	U
11141-16-5	PCB-1232 (Aroclor 1232)	<228	U
53469-21-9	PCB-1242 (Aroclor 1242)	<228	U
12672-29-6	PCB-1248 (Aroclor 1248)	3370	
11097-69-1	PCB-1254 (Aroclor 1254)	1910	
11096-82-5	PCB-1260 (Aroclor 1260)	793	J
1336-36-3	PCB, Total	6070	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018014.D
Lab Smp Id: 40150340004 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 20-MAR-2018 15:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340004 x20,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	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
1.165	22944	10615	0.463	0.05		
1.211	10419	6338	0.608	0.02		
1.952	12676	8158	0.644	0.03		
2.409	65566	52037	0.794	0.16		
2.484	693496	674125	0.972	1.75	$ 2 Tetrachloro-m-xylene	
2.684	13303	10029	0.754	0.03		
2.789	29530	24987	0.846	0.07		
2.852	66264	54092	0.816	0.16		
2.976	47833	26967	0.564	0.12		
3.018	22477	25185	1.120	0.05		
3.054	98658	96698	0.980	0.24		
3.317	301810	291728	0.967	0.76		
3.344	418966	389246	0.929	1.06		
3.433	292714	270258	0.923	0.74		
3.519	402622	350586	0.871	1.01		
3.645	43132	33140	0.768	0.10		
3.731	371857	363383	0.977	0.94		
3.756	174673	168973	0.967	0.44		
3.813	1439914	845221	0.587	3.64		
3.938	345748	277752	0.803	0.87		
3.994	240604	215379	0.895	0.60		
4.058	147301	127095	0.863	0.37		
4.137	60602	52334	0.864	0.15		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.215	1469926	1354312	0.921	3.72	
4.261	1832413	1687329	0.921	5.18	6 Aroclor 1248
4.292	1755530	1438247	0.819	4.44	
4.348	32763	23458	0.716	0.08	
4.417	655338	622070	0.949	1.65	
4.453	495662	457326	0.923	1.25	
4.545	1249635	1118878	0.895	3.16	6 Aroclor 1248
4.589	84663	82430	0.974	0.21	
4.618	211952	191049	0.901	0.53	
4.681	107881	94349	0.875	0.27	
4.736	138406	106670	0.771	0.35	
4.767	160708	149713	0.932	0.40	
4.813	415606	386731	0.931	1.05	6 Aroclor 1248
4.848	504835	482021	0.955	1.27	
4.894	1528142	966973	0.633	3.86	6 Aroclor 1248
4.956	483865	425351	0.879	1.22	
5.006	17376	16477	0.948	0.04	
5.036	320790	285402	0.890	0.81	6 Aroclor 1248
5.058	30169	51803	1.717	0.07	
5.100	898353	774206	0.862	2.27	
5.162	1267035	1097737	0.866	3.20	7 Aroclor 1254
5.212	1083582	926804	0.855	2.74	
5.284	141918	133571	0.941	0.35	
5.310	321826	272279	0.846	0.81	
5.362	367450	334747	0.911	0.93	
5.406	571122	523451	0.917	1.44	7 Aroclor 1254
5.451	1490444	1389240	0.932	3.77	
5.478	146610	148201	1.011	0.37	
5.509	1485416	1266956	0.853	3.76	7 Aroclor 1254
5.578	116640	104706	0.898	0.29	
5.605	149922	122387	0.816	0.37	
5.675	434154	403333	0.929	1.09	
5.709	288156	216991	0.753	0.72	
5.742	283409	223584	0.789	0.71	
5.788	1555130	1237559	0.796	3.93	
5.822	185391	160052	0.863	0.46	
5.884	208707	121150	0.580	0.52	
5.932	125088	113393	0.907	0.31	
5.994	460742	423641	0.919	1.16	
6.027	537604	484314	0.901	1.36	7 Aroclor 1254
6.055	1647945	1400742	0.850	4.17	
6.168	362263	212762	0.587	0.91	
6.242	270672	146113	0.540	0.68	
6.300	1809043	1470326	0.813	4.58	7 Aroclor 1254
6.334	176085	156436	0.888	0.44	
6.374	69713	56318	0.808	0.17	
6.433	193405	153520	0.794	0.48	
6.483	20170	24123	1.196	0.05	
6.509	679717	623695	0.918	1.72	
6.537	321460	292575	0.910	0.81	
6.559	261395	230140	0.880	0.66	
6.602	48635	39678	0.816	0.12	
6.660	43015	39573	0.920	0.10	
6.718	221312	193419	0.874	0.56	
6.759	230666	194738	0.844	0.58	
6.801	213613	186582	0.873	0.54	
6.839	124577	100424	0.806	0.31	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.912	32573	33840	1.039	0.08	
6.942	348157	312951	0.899	0.88	
7.004	789680	696001	0.881	1.99	8 Aroclor 1260
7.034	52506	57930	1.103	0.13	
7.120	20347	17780	0.874	0.05	
7.250	303754	270364	0.890	0.76	8 Aroclor 1260
7.281	100670	77392	0.769	0.25	
7.339	15846	9994	0.631	0.04	
7.389	253514	227194	0.896	0.64	
7.443	298351	270988	0.908	0.75	8 Aroclor 1260
7.494	21024	16375	0.779	0.05	
7.554	29728	16454	0.553	0.07	
7.621	20234	11149	0.551	0.05	
7.665	13351	15204	1.139	0.03	
7.690	57920	54854	0.947	0.14	
7.728	82008	70696	0.862	0.20	
7.766	14633	12887	0.881	0.03	
7.812	103605	71620	0.691	0.26	
7.900	189162	160832	0.850	0.47	8 Aroclor 1260
7.959	28971	18481	0.638	0.07	
8.275	191530	172834	0.902	0.48	
8.375	18848	12323	0.654	0.04	
8.446	10946	8198	0.749	0.02	
8.570	774426	682819	0.882	1.96	$ 12 Decachlorobiphenyl
8.725	31885	25613	0.803	0.08	
8.938	11135	7031	0.631	0.02	
9.171	41537	31386	0.756	0.10	
	39487495	33677571		100.000	

Total unknown % area = 64

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018014.D
Lab Smp Id: 40150340004 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 20-MAR-2018 15:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340004 x20,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	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	693495	0.00562	56			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1832413	0.78209	7800	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	1249634	0.30109	3000	0.00- 20.00	68.20	CO
4.813	4.812	0.001	415606	0.20472	2000	0.00- 20.00	22.68	CO
4.893	4.879	0.014	1528142	0.30336	3000	0.00- 20.00	83.40	CO
5.036	5.038	-0.002	320790	0.08939	900	0.00- 20.00	17.51	CO
Average of Peak Concentrations =					3400			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1267034	0.24202	2400	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	571121	0.13279	1300	0.00- 20.00	45.08	BA
5.509	5.510	-0.001	1485416	0.19127	1900	0.00- 20.00	117.24	BA
6.027	6.027	0.000	537604	0.11040	1100	0.00- 20.00	42.43	BA
6.300	6.299	0.001	1809043	0.27801	2800	0.00- 20.00	142.78	BA
Average of Peak Concentrations =					1900			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.004	7.006	-0.002	789680	0.07885	790	0.00- 20.00	46.50	CO
7.250	7.251	-0.001	303754	0.06355	640	0.00- 20.00	16.79	CO
7.443	7.443	0.000	298350	0.10235	1000	0.00- 20.00	16.49	CO
7.900	7.901	-0.001	189161	0.07169	720	0.00- 20.00	10.46	CO
Average of Peak Concentrations =					790			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	774426	0.00707	71		(R)	

QC Flag Legend

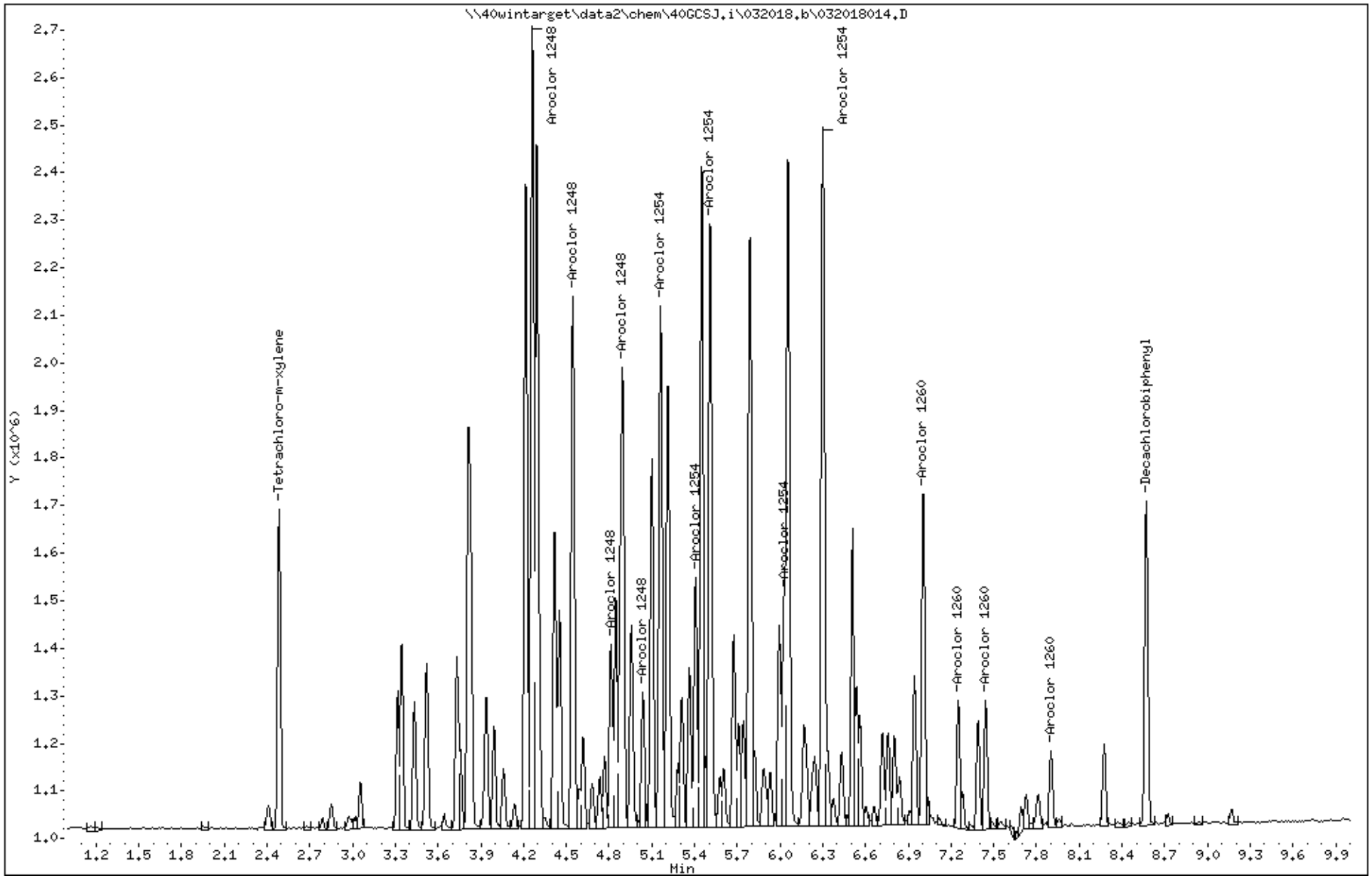
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Review Codes Legend

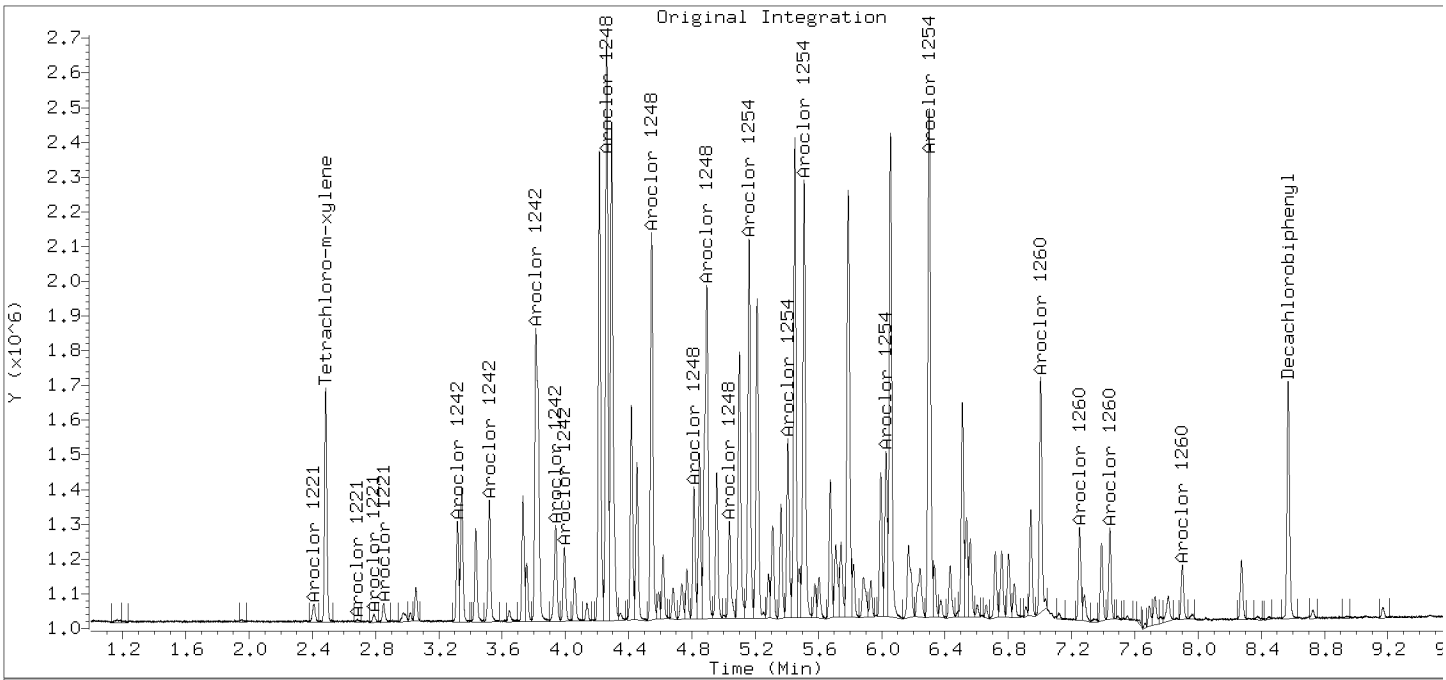
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

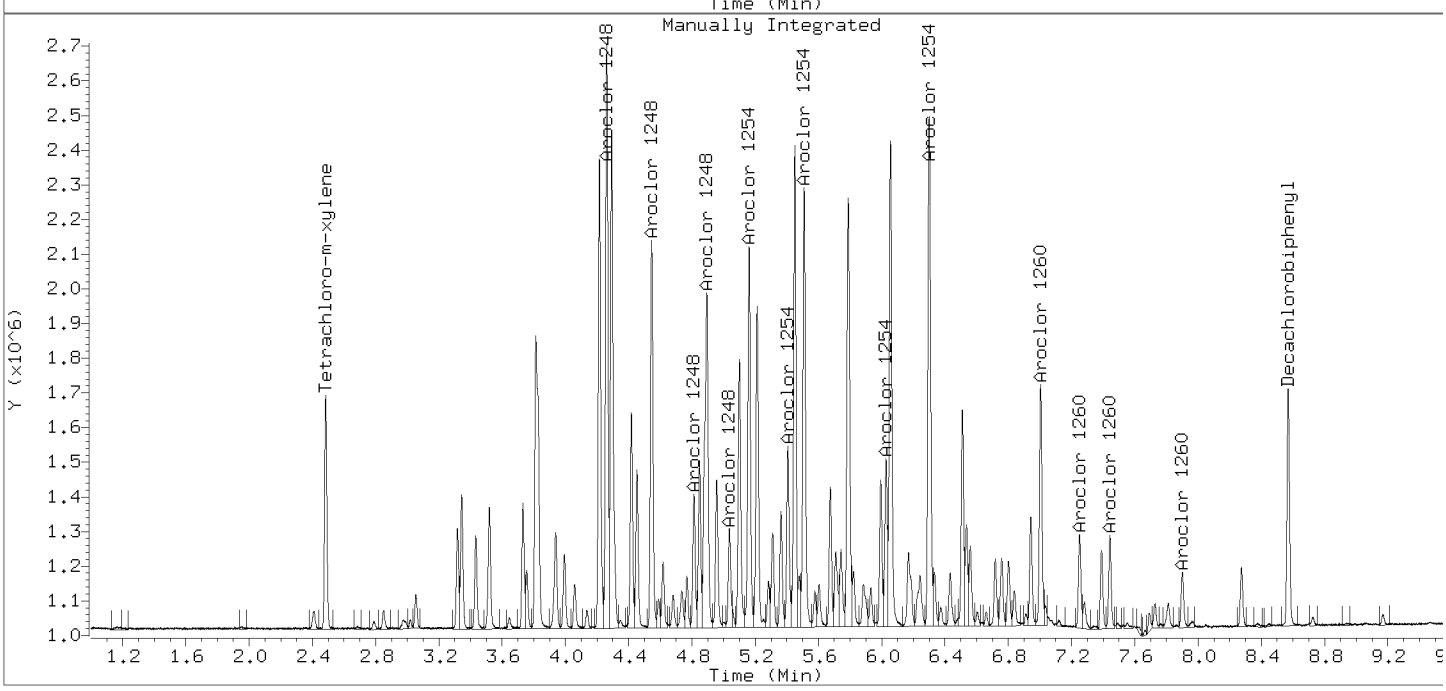
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018014.D
Date : 20-MAR-2018 15:58
Client ID: AT1-170519-01-STB-1
Sample Info: 40150340004 x20,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 15:58 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	301809	0	
Aroclor 1016	301809	0	
Aroclor 1016	301809	0	
Aroclor 1016	301809	0	
Aroclor 1016	301809	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	66263	0	
Aroclor 1232	66263	0	
Aroclor 1232	66263	0	
Aroclor 1232	66263	0	

Aroclor 1232	66263	0	
Aroclor 1242	301809	0	
Aroclor 1242	301809	0	
Aroclor 1242	301809	0	
Aroclor 1242	301809	0	
Aroclor 1242	301809	0	
Aroclor 1248	1825197	1832413	CO
Aroclor 1248	1825197	1832413	CO
Aroclor 1248	1825197	1832413	CO
Aroclor 1248	1825197	1832413	CO
Aroclor 1248	1825197	1832413	CO
Aroclor 1254	1246209	1267034	BA
Aroclor 1254	1246209	1267034	BA
Aroclor 1254	1246209	1267034	BA
Aroclor 1254	1246209	1267034	BA
Aroclor 1254	1246209	1267034	BA
Aroclor 1260	1790325	0	CO
Aroclor 1260	1790325	0	CO
Aroclor 1260	1790325	0	CO
Aroclor 1260	1790325	0	CO
Aroclor 1260	1790325	0	CO
Tetrachloro-m-xylene	693495	693495	
Decachlorobiphenyl	774426	774426	

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SAMPLE NO.

AT1-170519-01-STB-16

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340005
Date Analyzed: 03/15/2018 16:13
Lab File ID: 031518.B\031518013.D
Initial wt/vol: 10.018 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)	53.6	
11097-69-1	PCB-1254 (Aroclor 1254)	76.3	
11096-82-5	PCB-1260 (Aroclor 1260)	93.9	
1336-36-3	PCB, Total	224	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518013.D
Lab Smp Id: 40150340005 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 16:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340005,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	10.018	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.429	11153	10359	0.929	0.01		
1.539	15775	11966	0.759	0.02		
2.292	34241	26339	0.769	0.05		
2.411	65387	55554	0.850	0.10		
2.484	11758562	11650241	0.991	19.89	$ 2 Tetrachloro-m-xylene	
2.786	26776	24625	0.920	0.04		
2.849	52874	34309	0.649	0.08		
2.976	65001	48113	0.740	0.10		
3.019	39091	40588	1.038	0.06		
3.055	74143	69064	0.931	0.12		
3.316	79574	76824	0.965	0.13		
3.343	83641	81526	0.975	0.13		
3.399	12212	12713	1.041	0.02		
3.434	95727	87574	0.915	0.15		
3.518	126970	109254	0.860	0.20		
3.643	14114	11039	0.782	0.02		
3.690	10205	7850	0.769	0.01		
3.732	82104	60057	0.731	0.13		
3.825	274350	159344	0.581	0.44		
3.939	92920	68197	0.734	0.15		
3.993	68119	59978	0.880	0.11		
4.055	54918	39338	0.716	0.09		
4.133	27504	17985	0.654	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.215	385068	344119	0.894	0.63	
4.261	403425	381312	0.945	0.66	6 Aroclor 1248
4.292	370959	289904	0.781	0.60	
4.350	30088	22450	0.746	0.04	
4.417	200515	179952	0.897	0.32	
4.453	154319	126270	0.818	0.25	
4.502	29584	17632	0.596	0.04	
4.545	314048	270158	0.860	0.51	6 Aroclor 1248
4.589	45917	38616	0.841	0.07	
4.618	67429	52041	0.772	0.11	
4.682	57075	48392	0.848	0.09	
4.737	82118	59500	0.725	0.13	
4.768	90926	78108	0.859	0.14	
4.813	206582	188357	0.912	0.33	6 Aroclor 1248
4.847	201949	187251	0.927	0.33	
4.893	728998	367227	0.504	1.19	6 Aroclor 1248
4.957	220628	183483	0.832	0.36	
5.005	29238	25827	0.883	0.04	
5.036	151279	137554	0.909	0.24	6 Aroclor 1248
5.059	72822	69415	0.953	0.11	
5.101	515275	405777	0.787	0.84	
5.162	1236602	1085778	0.878	2.02	7 Aroclor 1254
5.213	1422392	1278264	0.899	2.33	
5.252	64415	58916	0.915	0.10	
5.284	173328	154228	0.890	0.28	
5.313	340668	293093	0.860	0.55	
5.363	384481	323242	0.841	0.63	
5.407	399265	363124	0.909	0.65	7 Aroclor 1254
5.451	2356204	2232573	0.948	3.86	
5.480	66106	112303	1.699	0.10	
5.509	1110874	914496	0.823	1.82	7 Aroclor 1254
5.578	210014	157564	0.750	0.34	
5.604	150368	106575	0.709	0.24	
5.675	492146	461355	0.937	0.80	
5.711	233606	179289	0.767	0.38	
5.742	490042	367272	0.749	0.80	
5.790	2505562	2057743	0.821	4.10	
5.820	316887	206016	0.650	0.51	
5.899	236742	134488	0.568	0.38	
5.931	151826	131943	0.869	0.24	
5.962	25909	29975	1.157	0.04	
5.993	996922	943975	0.947	1.63	
6.026	677803	614198	0.906	1.11	7 Aroclor 1254
6.056	3757648	3385415	0.901	6.16	
6.120	27332	22725	0.831	0.04	
6.168	482465	225614	0.468	0.79	
6.243	436815	249511	0.571	0.71	
6.299	3449853	2892298	0.838	5.65	8 Aroclor 1260
6.334	285907	258584	0.904	0.46	
6.375	68031	57157	0.840	0.11	
6.432	379721	278918	0.735	0.62	
6.485	45969	58443	1.271	0.07	
6.510	1506351	1347422	0.894	2.47	
6.536	649076	621425	0.957	1.06	
6.560	533828	467268	0.875	0.87	
6.604	137643	124302	0.903	0.22	
6.661	44459	42801	0.963	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.718	234313	212660	0.908	0.38	
6.759	426335	380127	0.892	0.69	
6.801	432333	414153	0.958	0.70	
6.839	293712	256469	0.873	0.48	
6.887	19030	21149	1.111	0.03	
6.913	98730	93648	0.949	0.16	
6.942	345734	333153	0.964	0.56	
7.005	1331829	1238497	0.930	2.18	8 Aroclor 1260
7.036	133390	106513	0.799	0.21	
7.077	27918	22138	0.793	0.04	
7.124	29515	23074	0.782	0.04	
7.251	555881	504013	0.907	0.91	8 Aroclor 1260
7.281	140674	114079	0.811	0.23	
7.334	16906	14317	0.847	0.02	
7.389	506241	433332	0.856	0.83	
7.421	26997	43669	1.618	0.04	
7.442	477419	414879	0.869	0.78	8 Aroclor 1260
7.493	51704	33317	0.644	0.08	
7.527	13326	13713	1.029	0.02	
7.556	47125	30387	0.645	0.07	
7.622	25394	13810	0.544	0.04	
7.690	116532	106320	0.912	0.19	
7.727	207585	188027	0.906	0.34	
7.766	31738	28458	0.897	0.05	
7.807	139431	83227	0.597	0.22	
7.862	11381	10394	0.913	0.01	
7.901	364351	327096	0.898	0.59	8 Aroclor 1260
7.959	52265	31885	0.610	0.08	
8.044	15480	12047	0.778	0.02	
8.193	16051	10958	0.683	0.02	
8.274	403824	360843	0.894	0.66	
8.375	43359	38452	0.887	0.07	
8.446	12508	11251	0.900	0.02	
8.571	10761587	9334694	0.867	17.64	$ 12 Decachlorobiphenyl
8.703	17471	16098	0.921	0.02	
8.726	45430	37358	0.822	0.07	
8.822	9685	5524	0.570	0.01	
9.168	46228	39808	0.861	0.07	
9.465	28705	15208	0.530	0.04	
9.700	14184	12257	0.864	0.02	
9.734	16623	13530	0.814	0.02	
9.962	15794	13082	0.828	0.02	
	60975579	53888089		100.000	

Total unknown % area = 44

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518013.D
Lab Smp Id: 40150340005 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 16:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340005,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	10.018	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	11758562	0.09537	48			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	403425	0.17219	86	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	314048	0.07567	38	0.00- 20.00	77.85	BA
4.812	4.812	0.000	206581	0.10176	51	0.00- 20.00	51.21	BA
4.893	4.879	0.014	728997	0.14472	72	0.00- 20.00	180.70	BA
5.036	5.038	-0.002	151278	0.04216	21	0.00- 20.00	37.50	BA
			Average of Peak Concentrations =		54			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1236602	0.23621	120	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	399265	0.09283	46	0.00- 20.00	32.29	BA
5.509	5.510	-0.001	1110874	0.14304	71	0.00- 20.00	89.83	BA
6.026	6.027	-0.001	677803	0.13919	69	0.00- 20.00	54.81	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		76			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	3449852	0.38927	190	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1331829	0.13299	66	0.00- 20.00	38.61	BA
7.251	7.251	0.000	555881	0.11630	58	0.00- 20.00	16.11	BA
7.442	7.443	-0.001	477419	0.16377	82	0.00- 20.00	13.84	BA
7.901	7.901	0.000	364351	0.13808	69	0.00- 20.00	10.56	BA
			Average of Peak Concentrations =		94			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10761586	0.09823	49			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518013.D

Date : 15-MAR-2018 16:13

Client ID: AT1-170519-01-STB-1

Instrument: 40GCSJ.i

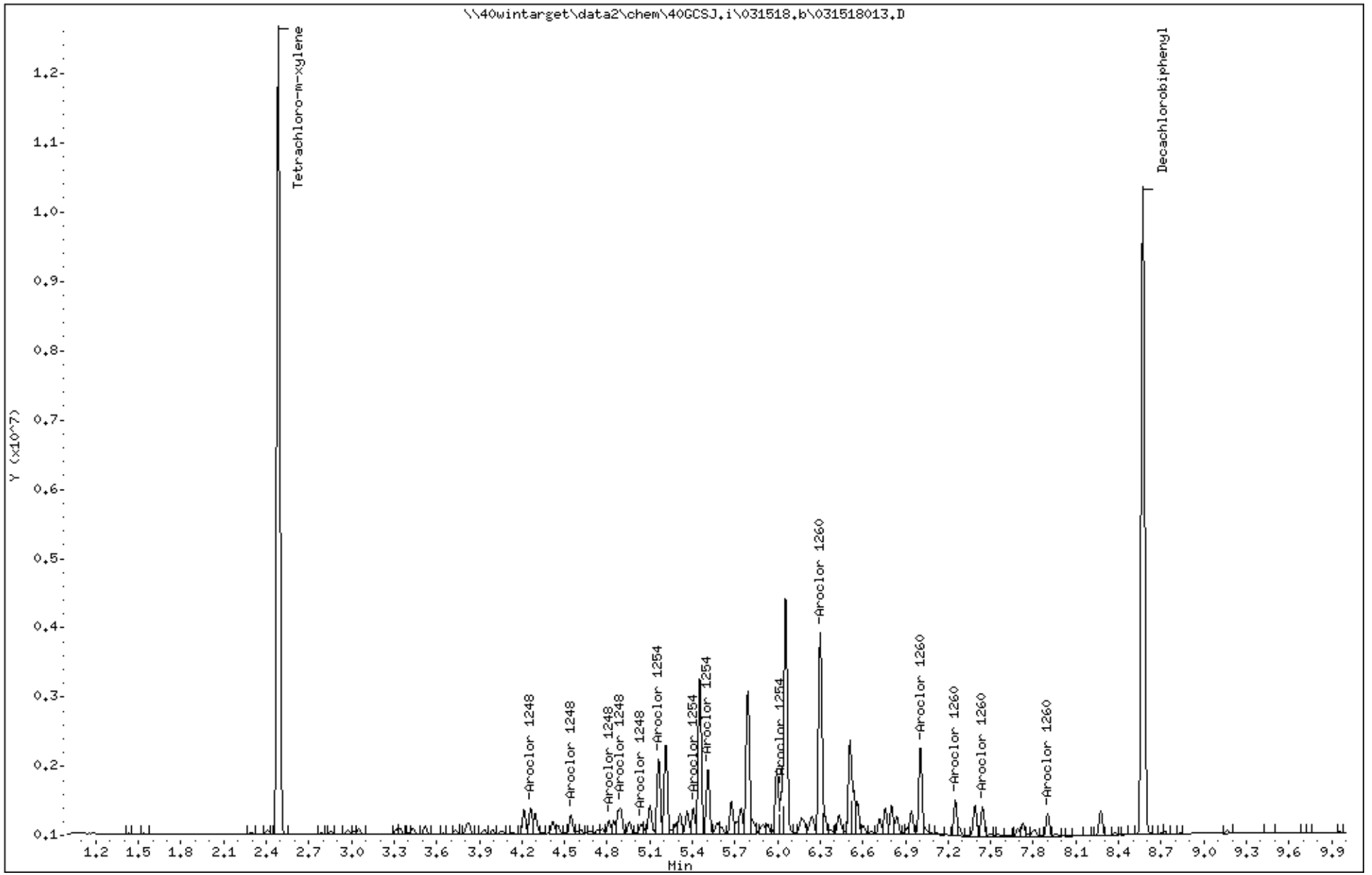
Sample Info: 40150340005,

Volume Injected (uL): 1.0

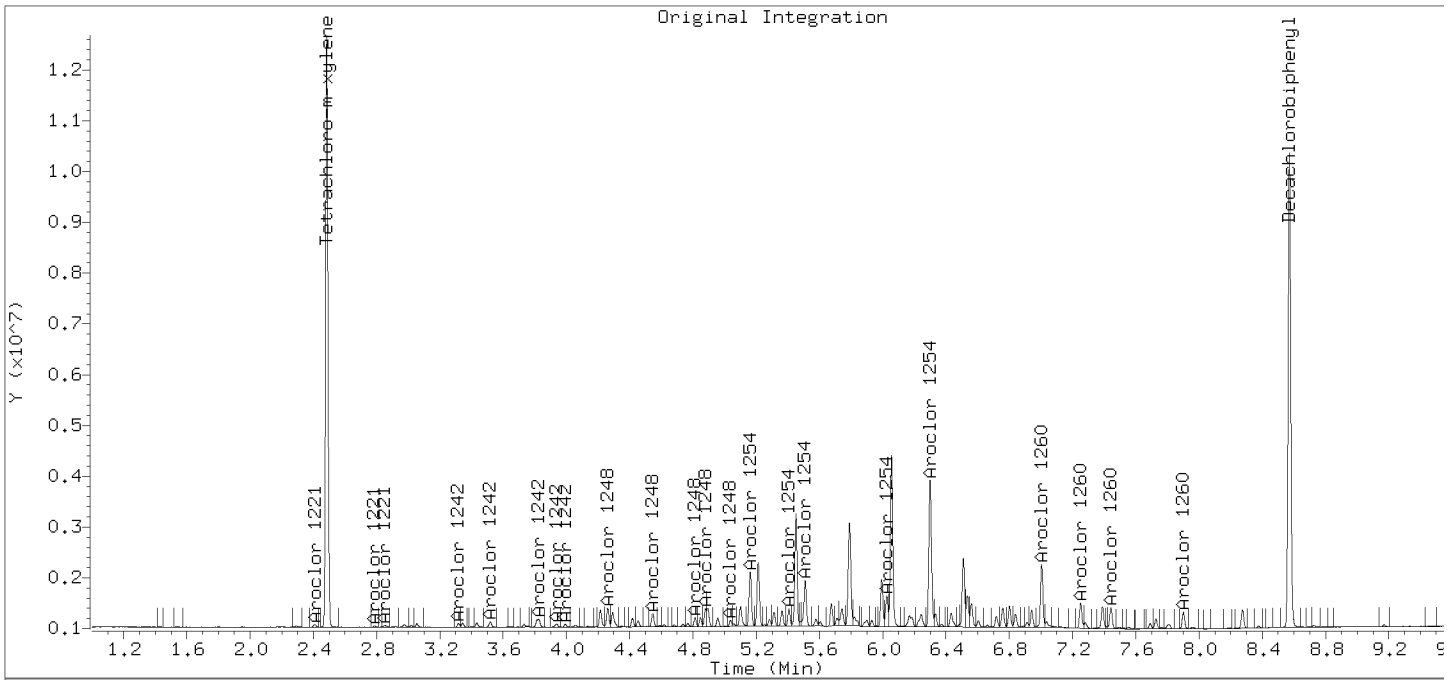
Operator: BLM

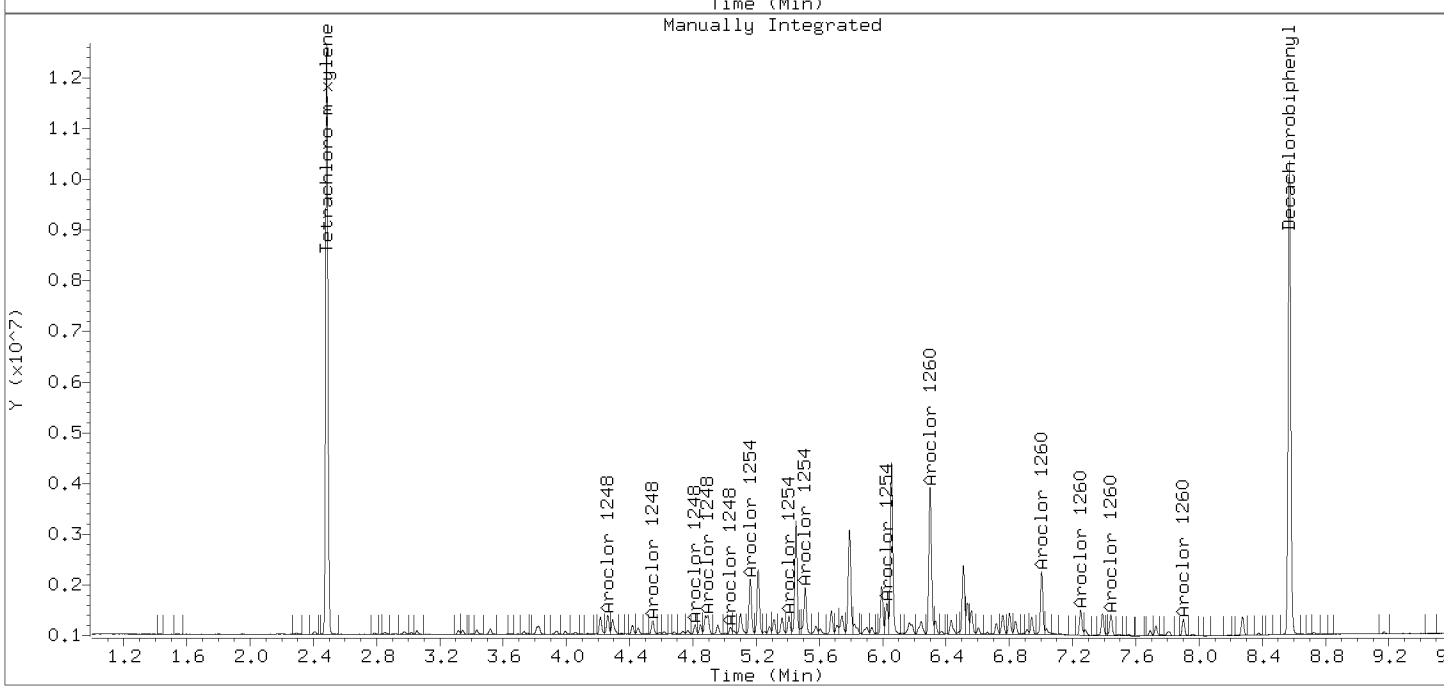
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 16:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	79574	0	
Aroclor 1016	79574	0	
Aroclor 1016	79574	0	
Aroclor 1016	79574	0	
Aroclor 1016	79574	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	52873	0	
Aroclor 1232	52873	0	
Aroclor 1232	52873	0	
Aroclor 1232	52873	0	

Aroclor 1232	52873	0	
Aroclor 1242	79574	0	
Aroclor 1242	79574	0	
Aroclor 1242	79574	0	
Aroclor 1242	79574	0	
Aroclor 1242	79574	0	
Aroclor 1248	394786	403425	BA
Aroclor 1248	394786	403425	BA
Aroclor 1248	394786	403425	BA
Aroclor 1248	394786	403425	BA
Aroclor 1248	394786	403425	BA
Aroclor 1254	1172475	1236602	BA
Aroclor 1254	1172475	1236602	BA
Aroclor 1254	1172475	1236602	BA
Aroclor 1254	1172475	1236602	BA
Aroclor 1254	1172475	1236602	BA
Aroclor 1260	3425309	3449852	BA
Aroclor 1260	3425309	3449852	BA
Aroclor 1260	3425309	3449852	BA
Aroclor 1260	3425309	3449852	BA
Aroclor 1260	3425309	3449852	BA
Tetrachloro-m-xylene	11758562	11758562	
Decachlorobiphenyl	10761586	10761586	

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SAMPLE NO.

AT1-170519-01-STB-15

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340006
Date Analyzed: 03/15/2018 16:29
Lab File ID: 031518.B\031518014.D
Initial wt/vol: 10.0381 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)	164	
11097-69-1	PCB-1254 (Aroclor 1254)	123	
11096-82-5	PCB-1260 (Aroclor 1260)	76.9	
1336-36-3	PCB, Total	364	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518014.D
Lab Smp Id: 40150340006 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340006,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
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	10.038	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.035	15776	11474	0.727	0.02		
1.156	12433	10156	0.817	0.01		
1.427	14310	10277	0.718	0.01		
1.538	12485	9583	0.768	0.01		
1.950	11919	10685	0.896	0.01		
2.061	9819	5808	0.592	0.01		
2.169	10261	12694	1.237	0.01		
2.291	43636	33145	0.760	0.05		
2.410	120682	99472	0.824	0.15		
2.484	12234278	12057966	0.986	16.66	$ 2 Tetrachloro-m-xylene	
2.691	9333	7629	0.817	0.01		
2.788	34136	30654	0.898	0.04		
2.852	76942	58337	0.758	0.10		
2.912	17366	9540	0.549	0.02		
2.975	92139	62186	0.675	0.12		
3.021	44868	44990	1.003	0.05		
3.054	141877	133795	0.943	0.18		
3.317	210577	206461	0.980	0.27		
3.344	263094	242510	0.922	0.34		
3.398	17215	13907	0.808	0.02		
3.434	231825	205909	0.888	0.30		
3.520	353407	302676	0.856	0.46		
3.646	27148	22507	0.829	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.732	232169	232749	1.002	0.30	
3.755	116572	117048	1.004	0.15	
3.825	1309047	756952	0.578	1.71	
3.937	264803	199115	0.752	0.34	
3.993	267845	252996	0.945	0.35	
4.058	152914	124610	0.815	0.20	
4.137	55998	45030	0.804	0.07	
4.215	1357332	1257673	0.927	1.77	
4.260	1423125	1384829	0.973	1.86	6 Aroclor 1248
4.292	1502757	1239147	0.825	1.97	
4.349	74282	66181	0.891	0.09	
4.417	752638	725669	0.964	0.98	
4.452	496843	460725	0.927	0.65	
4.545	1150700	1062783	0.924	1.50	6 Aroclor 1248
4.588	74975	69170	0.923	0.09	
4.617	205734	179647	0.873	0.26	
4.655	19388	23120	1.192	0.02	
4.681	93453	80860	0.865	0.12	
4.736	188349	155957	0.828	0.24	
4.767	169150	159011	0.940	0.22	
4.812	526612	498104	0.946	0.69	6 Aroclor 1248
4.847	690494	667432	0.967	0.90	
4.894	1753269	941698	0.537	2.29	6 Aroclor 1248
4.937	52151	70921	1.360	0.06	
4.957	414650	363353	0.876	0.54	
5.004	71988	73903	1.027	0.09	
5.037	558910	536862	0.961	0.73	6 Aroclor 1248
5.057	106763	122470	1.147	0.13	
5.099	1079625	906394	0.840	1.41	
5.162	1454518	1266967	0.871	1.90	7 Aroclor 1254
5.214	1873666	1631086	0.871	2.45	
5.254	64933	65824	1.014	0.08	
5.284	193366	175822	0.909	0.25	
5.313	712259	647419	0.909	0.93	
5.363	463060	419218	0.905	0.60	
5.407	712980	645702	0.906	0.93	7 Aroclor 1254
5.452	5382627	5254874	0.976	7.05	
5.510	1653945	1446676	0.875	2.16	7 Aroclor 1254
5.577	168380	130547	0.775	0.22	
5.603	231766	187198	0.808	0.30	
5.674	536502	497055	0.926	0.70	
5.711	341063	237776	0.697	0.44	
5.743	399757	297054	0.743	0.52	
5.789	2148443	1765395	0.822	2.81	
5.821	539058	449826	0.834	0.70	
5.900	428956	279302	0.651	0.56	
5.932	150520	131220	0.872	0.19	
5.964	25267	27523	1.089	0.03	
5.993	684494	648112	0.947	0.89	
6.026	791253	711871	0.900	1.03	7 Aroclor 1254
6.056	2555373	2228780	0.872	3.35	
6.168	569255	340767	0.599	0.74	
6.243	429565	232801	0.542	0.56	
6.299	2724655	2314906	0.850	3.57	7 Aroclor 1254
6.333	259333	232650	0.897	0.34	
6.373	97737	81980	0.839	0.12	
6.432	309820	235991	0.762	0.40	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.486	42004	46352	1.104	0.05	
6.510	1185684	1100410	0.928	1.55	
6.535	509009	492549	0.968	0.66	
6.561	449083	408689	0.910	0.58	
6.605	74979	65765	0.877	0.09	
6.660	72851	68670	0.943	0.09	
6.717	352869	316504	0.897	0.46	
6.758	373682	317803	0.850	0.48	
6.802	367207	338783	0.923	0.48	
6.839	243516	207375	0.852	0.31	
6.913	79704	78929	0.990	0.10	
6.941	545827	535038	0.980	0.71	
7.004	1377540	1295290	0.940	1.80	8 Aroclor 1260
7.036	126643	90070	0.711	0.16	
7.122	28006	29020	1.036	0.03	
7.251	571458	519598	0.909	0.74	8 Aroclor 1260
7.281	172494	141046	0.818	0.22	
7.341	26849	19919	0.742	0.03	
7.389	553067	477968	0.864	0.72	
7.442	623311	519526	0.833	0.81	8 Aroclor 1260
7.494	81252	35017	0.431	0.10	
7.556	55882	39203	0.702	0.07	
7.615	13075	15429	1.180	0.01	
7.627	19773	17005	0.860	0.02	
7.690	130240	118810	0.912	0.17	
7.726	358204	298510	0.833	0.46	
7.762	54181	45420	0.838	0.07	
7.810	254121	145287	0.572	0.33	
7.863	26404	21335	0.808	0.03	
7.901	387096	335914	0.868	0.50	8 Aroclor 1260
7.956	70680	38752	0.548	0.09	
8.048	18139	16264	0.897	0.02	
8.189	13268	10597	0.799	0.01	
8.275	698974	647124	0.926	0.91	
8.377	32977	25880	0.785	0.04	
8.450	15714	12673	0.806	0.02	
8.571	10999484	9641999	0.877	14.42	$ 12 Decachlorobiphenyl
8.701	13941	17343	1.244	0.01	
8.726	62829	46932	0.747	0.08	
9.052	19733	12688	0.643	0.02	
9.170	86390	81011	0.938	0.11	
9.736	13062	10106	0.774	0.01	
	76271817	67663715		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518014.D
Lab Smp Id: 40150340006 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340006,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
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	10.038	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	12234277	0.09923	49			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1423125	0.60740	300	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	1150699	0.27726	140	0.00- 20.00	80.86	CO
4.812	4.812	0.000	526611	0.25940	130	0.00- 20.00	37.00	CO
4.893	4.879	0.014	1753268	0.34805	170	0.00- 20.00	123.20	CO
5.036	5.038	-0.002	558910	0.15575	78	0.00- 20.00	39.27	CO
Average of Peak Concentrations =					160			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1454518	0.27783	140	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	712980	0.16577	82	0.00- 20.00	49.02	BA
5.509	5.510	-0.001	1653944	0.21297	110	0.00- 20.00	113.71	BA
6.025	6.027	-0.002	791253	0.16249	81	0.00- 20.00	54.40	BA
6.298	6.299	-0.001	2724654	0.41872	210	0.00- 20.00	187.32	BA
Average of Peak Concentrations =					120			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	1377539	0.13756	68	0.00- 20.00	50.56	BA
7.251	7.251	0.000	571458	0.11956	60	0.00- 20.00	20.97	BA
7.441	7.443	-0.002	623311	0.21382	110	0.00- 20.00	22.88	BA
7.900	7.901	-0.001	387095	0.14670	73	0.00- 20.00	14.21	BA
Average of Peak Concentrations =					77			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10999484	0.10040	50			

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\031518.b\031518014.D

Date : 15-MAR-2018 16:29

Client ID: AT1-170519-01-STB-1

Instrument: 40GCSJ.i

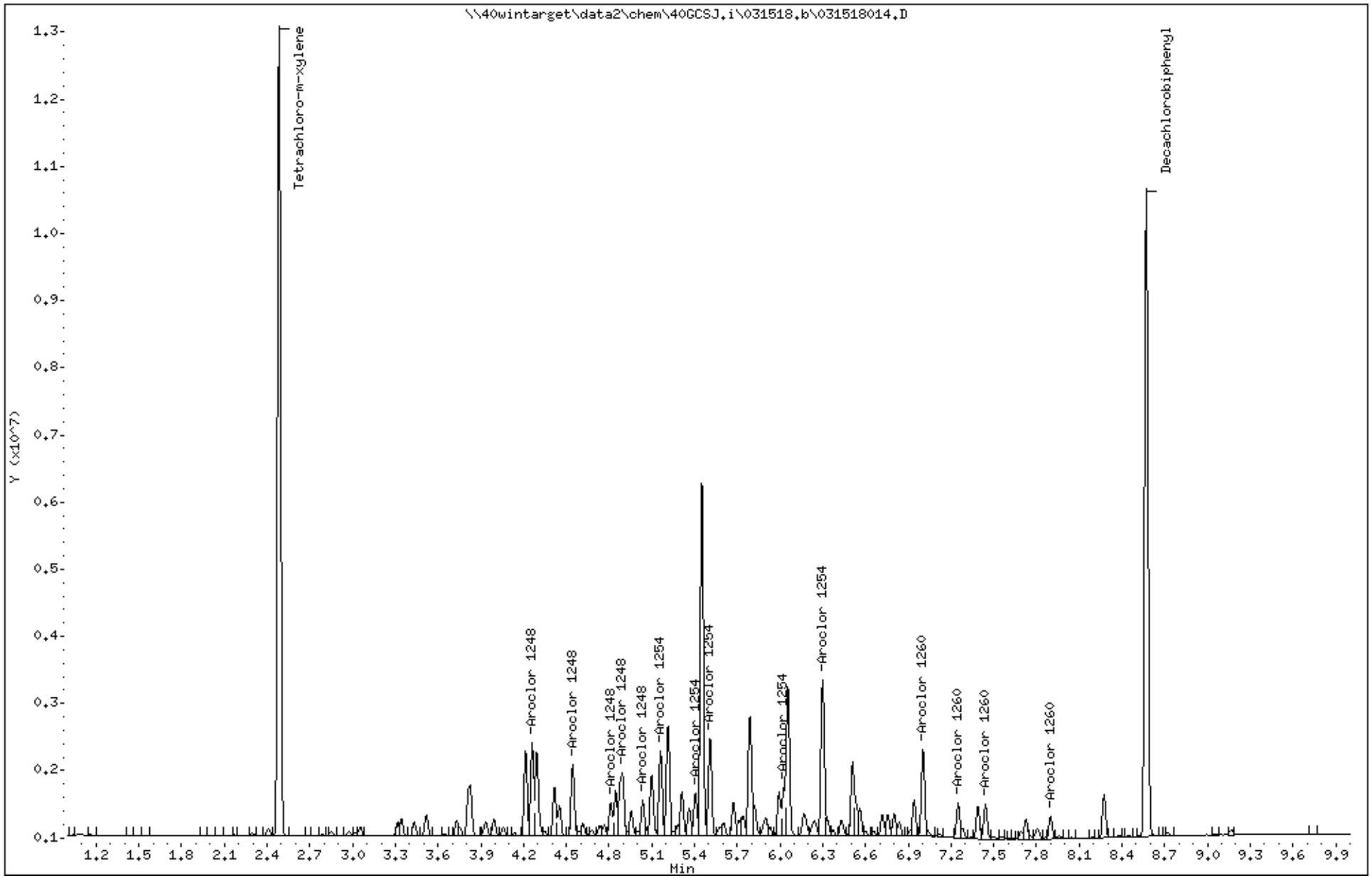
Sample Info: 40150340006,

Volume Injected (uL): 1.0

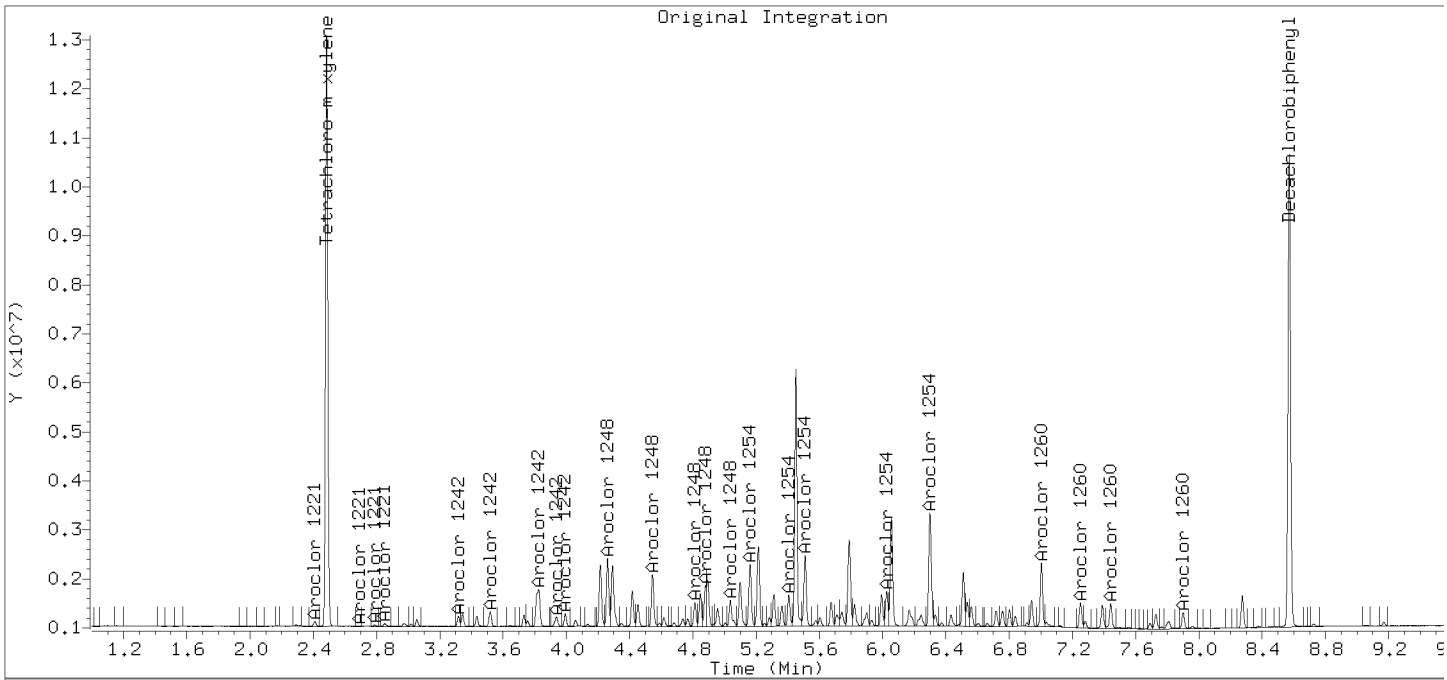
Operator: BLM

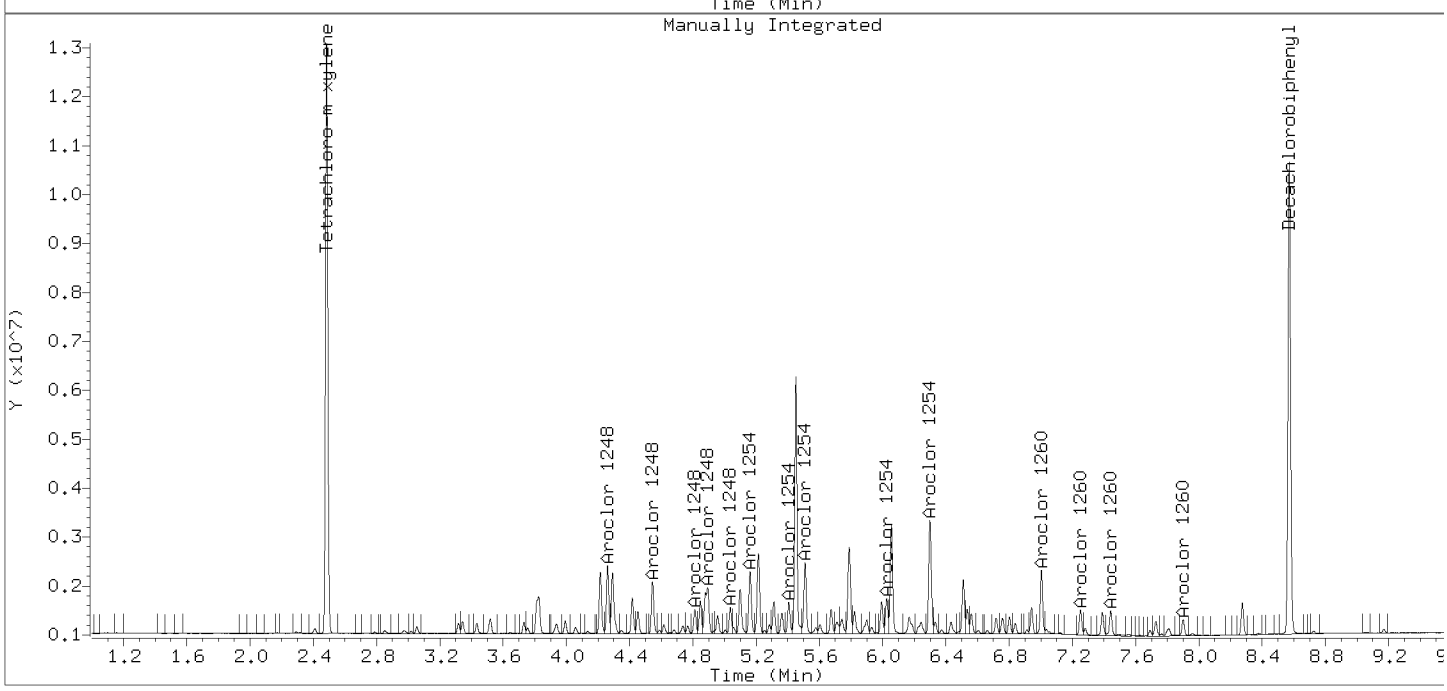
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 16:29 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	210577	0	
Aroclor 1016	210577	0	
Aroclor 1016	210577	0	
Aroclor 1016	210577	0	
Aroclor 1016	210577	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	76942	0	
Aroclor 1232	76942	0	
Aroclor 1232	76942	0	
Aroclor 1232	76942	0	

Aroclor 1232	76942	0	
Aroclor 1242	210577	0	
Aroclor 1242	210577	0	
Aroclor 1242	210577	0	
Aroclor 1242	210577	0	
Aroclor 1242	210577	0	
Aroclor 1248	1414845	1423125	CO
Aroclor 1248	1414845	1423125	CO
Aroclor 1248	1414845	1423125	CO
Aroclor 1248	1414845	1423125	CO
Aroclor 1248	1414845	1423125	CO
Aroclor 1254	1442625	1454518	BA
Aroclor 1254	1442625	1454518	BA
Aroclor 1254	1442625	1454518	BA
Aroclor 1254	1442625	1454518	BA
Aroclor 1254	1442625	1454518	BA
Aroclor 1260	2708104	0	BA
Aroclor 1260	2708104	0	BA
Aroclor 1260	2708104	0	BA
Aroclor 1260	2708104	0	BA
Aroclor 1260	2708104	0	BA
Tetrachloro-m-xylene	12234277	12234277	
Decachlorobiphenyl	10999484	10999484	

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SAMPLE NO.

AT1-170519-01-STB-14

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340007
Date Analyzed: 03/15/2018 16:45
Lab File ID: 031518.B\031518015.D
Initial wt/vol: 9.9709 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)	44.1	J
11097-69-1	PCB-1254 (Aroclor 1254)	45.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	63.1	
1336-36-3	PCB, Total	153	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518015.D
Lab Smp Id: 40150340007 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 16:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340007,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	9.971	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.428	11295	10538	0.933	0.02		
1.541	12206	10004	0.820	0.02		
1.799	9714	6938	0.714	0.02		
1.951	12133	9251	0.762	0.02		
2.171	10702	12442	1.163	0.02		
2.294	40296	38343	0.952	0.08		
2.314	17213	16068	0.933	0.03		
2.354	10766	9954	0.925	0.02		
2.409	103410	85780	0.830	0.21		
2.484	10719425	10589488	0.988	22.95	$ 2 Tetrachloro-m-xylene	
2.787	28459	26848	0.943	0.05		
2.852	54939	40894	0.744	0.11		
2.974	84836	52230	0.616	0.17		
3.020	60913	62347	1.024	0.12		
3.055	98639	86969	0.882	0.20		
3.318	93696	93188	0.995	0.19		
3.343	97959	92110	0.940	0.20		
3.400	20377	21509	1.056	0.04		
3.433	94363	95090	1.008	0.19		
3.519	148102	128567	0.868	0.30		
3.647	15810	11922	0.754	0.03		
3.693	23664	19155	0.809	0.04		
3.731	93468	68842	0.737	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.816	143462	171941	1.199	0.29	
3.824	180693	181877	1.007	0.37	
3.938	105514	77453	0.734	0.21	
3.992	77125	67749	0.878	0.16	
4.056	70212	49068	0.699	0.14	
4.138	25752	20204	0.785	0.05	
4.215	371646	336555	0.906	0.77	
4.260	361414	343381	0.950	0.75	6 Aroclor 1248
4.292	313649	246408	0.786	0.65	
4.348	32046	23107	0.721	0.06	
4.417	203307	186417	0.917	0.42	
4.452	136637	119371	0.874	0.28	
4.545	281007	259489	0.923	0.58	6 Aroclor 1248
4.588	31066	24070	0.775	0.06	
4.619	60313	50644	0.840	0.12	
4.681	37224	31164	0.837	0.07	
4.737	56446	43576	0.772	0.11	
4.766	52411	48871	0.932	0.10	
4.812	142574	128977	0.905	0.29	6 Aroclor 1248
4.847	160893	151368	0.941	0.33	
4.894	550664	301045	0.547	1.14	6 Aroclor 1248
4.957	164722	130394	0.792	0.34	
5.003	20813	20868	1.003	0.04	
5.036	135403	122426	0.904	0.28	6 Aroclor 1248
5.058	66461	64062	0.964	0.13	
5.099	372875	286592	0.769	0.77	
5.162	723528	630789	0.872	1.50	7 Aroclor 1254
5.213	759703	683191	0.899	1.58	
5.254	46228	42394	0.917	0.09	
5.284	99258	88490	0.892	0.20	
5.312	277017	252534	0.912	0.57	
5.362	232936	192423	0.826	0.48	
5.406	229659	209488	0.912	0.47	7 Aroclor 1254
5.451	1968553	1886584	0.958	4.09	
5.477	28251	78594	2.782	0.05	
5.509	720649	567606	0.788	1.49	7 Aroclor 1254
5.578	144378	101572	0.704	0.30	
5.604	131381	96558	0.735	0.27	
5.675	318843	289634	0.908	0.66	
5.711	161595	126299	0.782	0.33	
5.741	286034	217036	0.759	0.59	
5.789	1452476	1208730	0.832	3.02	
5.822	295353	219534	0.743	0.61	
5.897	200323	111304	0.556	0.41	
5.932	115832	95552	0.825	0.24	
5.966	27310	25271	0.925	0.05	
5.993	661379	632035	0.956	1.37	
6.026	397601	353081	0.888	0.82	7 Aroclor 1254
6.055	2122210	1852839	0.873	4.41	
6.123	19644	20724	1.055	0.04	
6.169	189394	143359	0.757	0.39	
6.186	142893	131290	0.919	0.29	
6.241	286895	160787	0.560	0.59	
6.299	1953628	1623281	0.831	4.06	8 Aroclor 1260
6.334	141676	137097	0.968	0.29	
6.373	57601	40233	0.698	0.11	
6.432	337630	239880	0.710	0.70	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.484	31242	46843	1.499	0.06	
6.509	1188563	1093252	0.920	2.47	
6.535	352448	340207	0.965	0.73	
6.561	359504	319192	0.888	0.74	
6.604	64542	53694	0.832	0.13	
6.660	40929	32409	0.792	0.08	
6.718	216948	186997	0.862	0.45	
6.758	370765	323158	0.872	0.77	
6.802	254607	229501	0.901	0.52	
6.838	270047	224568	0.832	0.56	
6.914	85814	82770	0.965	0.17	
6.942	244537	232351	0.950	0.50	
7.005	926274	877093	0.947	1.92	8 Aroclor 1260
7.035	75043	70405	0.938	0.15	
7.077	18760	12297	0.655	0.03	
7.123	30255	20838	0.689	0.06	
7.251	377993	324825	0.859	0.78	8 Aroclor 1260
7.280	115112	82279	0.715	0.23	
7.339	24637	19447	0.789	0.05	
7.365	12391	20420	1.648	0.02	
7.390	397642	370495	0.932	0.82	
7.422	23392	35932	1.536	0.04	
7.442	377120	333309	0.884	0.78	8 Aroclor 1260
7.492	68005	31315	0.460	0.14	
7.553	37609	22753	0.605	0.07	
7.616	22277	15404	0.691	0.04	
7.691	71862	71639	0.997	0.14	
7.728	194006	169398	0.873	0.40	
7.762	20459	18695	0.914	0.04	
7.807	123529	67868	0.549	0.25	
7.863	14096	12541	0.890	0.02	
7.899	284461	247067	0.869	0.59	8 Aroclor 1260
7.959	47483	27004	0.569	0.09	
8.049	14938	15295	1.024	0.03	
8.194	12596	10673	0.847	0.02	
8.275	329735	294079	0.892	0.68	
8.378	22988	19673	0.856	0.04	
8.571	10277705	9019072	0.878	21.38	$ 12 Decachlorobiphenyl
8.704	13563	13513	0.996	0.02	
8.726	48525	43955	0.906	0.10	
9.056	10602	9644	0.910	0.02	
9.168	28166	25375	0.901	0.05	
9.736	10986	11033	1.004	0.02	
	48058731	43012021		100.000	

Total unknown % area = 40

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518015.D
Lab Smp Id: 40150340007 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 16:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340007,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	9.971	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10719425	0.08694	44			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	361414	0.15425	77	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	281006	0.06771	34	0.00- 20.00	77.75	BA
4.812	4.812	0.000	142573	0.07023	35	0.00- 20.00	39.45	BA
4.894	4.879	0.015	550663	0.10931	55	0.00- 20.00	152.36	BA
5.036	5.038	-0.002	135403	0.03773	19	0.00- 20.00	37.46	BA
Average of Peak Concentrations =					44			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	723527	0.13820	69	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	229658	0.05340	27	0.00- 20.00	31.74	BA
5.509	5.510	-0.001	720648	0.09279	46	0.00- 20.00	99.60	BA
6.026	6.027	-0.001	397600	0.08165	41	0.00- 20.00	54.95	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					46			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	1953627	0.22044	110	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	926274	0.09249	46	0.00- 20.00	47.41	CO
7.250	7.251	-0.001	377992	0.07908	40	0.00- 20.00	19.35	CO
7.442	7.443	-0.001	377120	0.12937	65	0.00- 20.00	19.30	CO
7.899	7.901	-0.002	284461	0.10780	54	0.00- 20.00	14.56	CO
Average of Peak Concentrations =					63			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10277704	0.09381	47			

QC Flag Legend

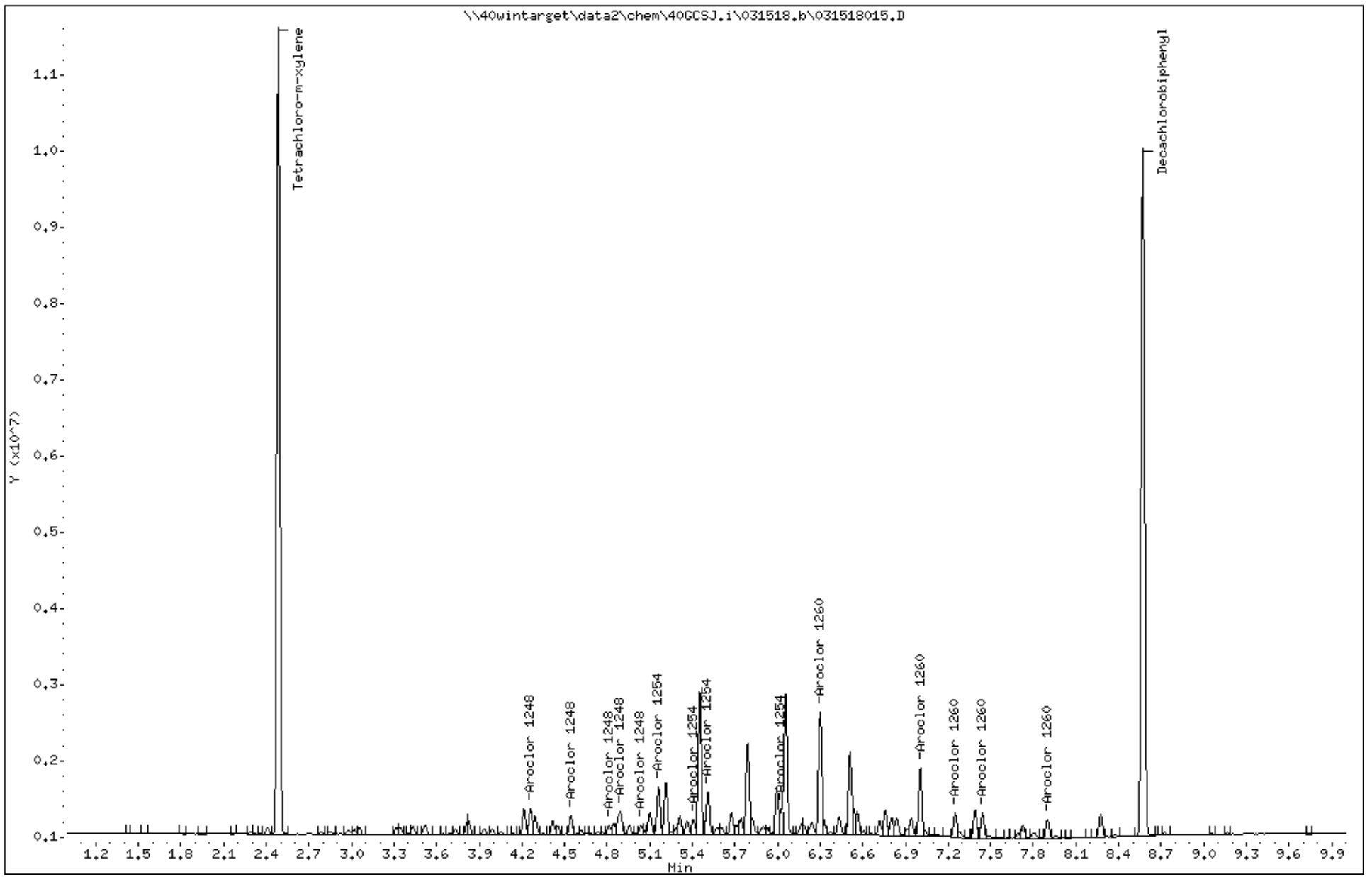
M - Compound response manually integrated.

Review Codes Legend

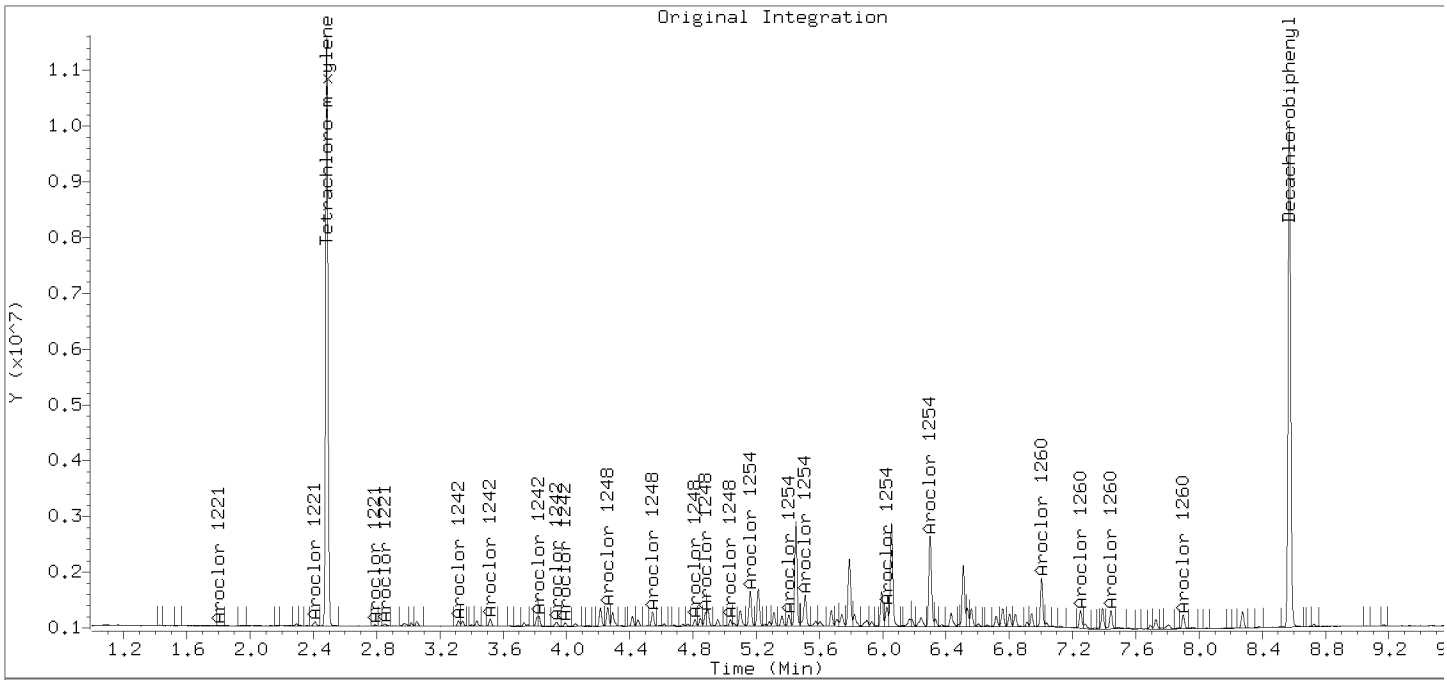
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

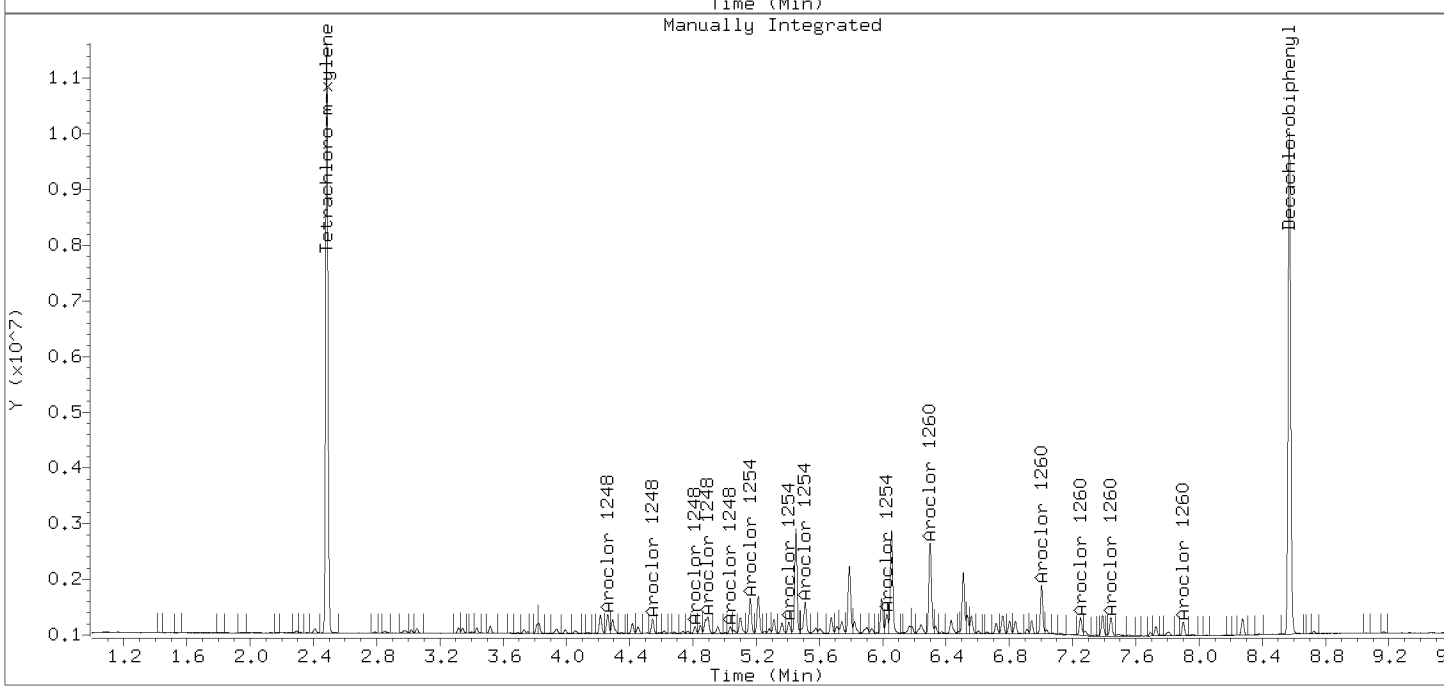
Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518015.D
Date : 15-MAR-2018 16:45
Client ID: AT1-170519-01-STB-1
Sample Info: 40150340007,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 16:45 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	93696	0	
Aroclor 1016	93696	0	
Aroclor 1016	93696	0	
Aroclor 1016	93696	0	
Aroclor 1016	93696	0	
Aroclor 1221	9713	0	
Aroclor 1221	9713	0	
Aroclor 1221	9713	0	
Aroclor 1221	9713	0	
Aroclor 1221	9713	0	
Aroclor 1232	54939	0	
Aroclor 1232	54939	0	
Aroclor 1232	54939	0	
Aroclor 1232	54939	0	

Aroclor 1232	54939	0	
Aroclor 1242	93696	0	
Aroclor 1242	93696	0	
Aroclor 1242	93696	0	
Aroclor 1242	93696	0	
Aroclor 1242	93696	0	
Aroclor 1248	352542	361414	BA
Aroclor 1248	352542	361414	BA
Aroclor 1248	352542	361414	BA
Aroclor 1248	352542	361414	BA
Aroclor 1248	352542	361414	BA
Aroclor 1254	701941	723527	BA
Aroclor 1254	701941	723527	BA
Aroclor 1254	701941	723527	BA
Aroclor 1254	701941	723527	BA
Aroclor 1254	701941	723527	BA
Aroclor 1260	1940446	1953627	CO
Aroclor 1260	1940446	1953627	CO
Aroclor 1260	1940446	1953627	CO
Aroclor 1260	1940446	1953627	CO
Aroclor 1260	1940446	1953627	CO
Tetrachloro-m-xylene	10719425	10719425	
Decachlorobiphenyl	10277704	10277704	

==========

SAMPLE NO.

AT1-170519-01-STB-13

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340008
Date Analyzed: 03/15/2018 17:32
Lab File ID: 031518.B\031518018.D
Initial wt/vol: 10.0243 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)	106	
11097-69-1	PCB-1254 (Aroclor 1254)	94.5	
11096-82-5	PCB-1260 (Aroclor 1260)	52.1	
1336-36-3	PCB, Total	252	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518018.D
Lab Smp Id: 40150340008 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 17:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340008,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
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	10.024	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.025	10670	9006	0.844	0.01		
1.102	9330	5622	0.603	0.01		
1.426	9282	8896	0.958	0.01		
2.291	38825	30549	0.787	0.06		
2.410	97506	78823	0.808	0.16		
2.484	10189251	9995463	0.981	18.30	$ 2 Tetrachloro-m-xylene	
2.789	26771	26363	0.985	0.04		
2.850	58866	42367	0.720	0.10		
2.975	73664	49087	0.666	0.12		
3.021	55394	54329	0.981	0.09		
3.055	91796	84240	0.918	0.16		
3.317	146578	145816	0.995	0.25		
3.344	157067	152802	0.973	0.27		
3.433	133547	112283	0.841	0.23		
3.518	214918	178420	0.830	0.37		
3.645	19261	13441	0.698	0.03		
3.732	117795	120692	1.025	0.20		
3.757	77148	73227	0.949	0.13		
3.825	854777	506701	0.593	1.49		
3.936	167912	115896	0.690	0.29		
3.993	165065	153231	0.928	0.28		
4.058	127503	79852	0.626	0.22		
4.135	36772	30550	0.831	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.215	768006	709700	0.924	1.33	
4.261	769732	751568	0.976	1.34	6 Aroclor 1248
4.292	697737	565614	0.811	1.21	
4.348	86349	69571	0.806	0.15	
4.418	533945	505158	0.946	0.93	
4.453	316293	292648	0.925	0.55	
4.546	686158	625761	0.912	1.19	6 Aroclor 1248
4.589	42951	42507	0.990	0.07	
4.617	159684	128742	0.806	0.27	
4.656	41135	36298	0.882	0.07	
4.681	64846	50532	0.779	0.11	
4.738	153797	127578	0.830	0.26	
4.767	93072	79190	0.851	0.16	
4.812	356132	331009	0.929	0.62	6 Aroclor 1248
4.847	546009	515747	0.945	0.95	
4.894	1269696	664656	0.523	2.21	6 Aroclor 1248
4.936	66202	79256	1.197	0.11	
4.956	275677	233196	0.846	0.48	
5.003	89458	83448	0.933	0.15	
5.037	490518	469977	0.958	0.85	6 Aroclor 1248
5.054	82854	87818	1.060	0.14	
5.098	799795	658804	0.824	1.39	
5.162	1111215	991121	0.892	1.93	7 Aroclor 1254
5.216	1678069	1466565	0.874	2.92	
5.254	79775	77961	0.977	0.13	
5.283	149871	135878	0.907	0.26	
5.313	657403	616611	0.938	1.14	
5.362	387475	339250	0.876	0.67	
5.407	480884	425117	0.884	0.83	7 Aroclor 1254
5.452	2438655	2297928	0.942	4.25	
5.510	1216788	1058303	0.870	2.12	7 Aroclor 1254
5.577	146001	98817	0.677	0.25	
5.605	202103	155035	0.767	0.35	
5.675	389779	341150	0.875	0.67	
5.710	260613	186848	0.717	0.45	
5.741	340845	248830	0.730	0.59	
5.789	1887521	1562124	0.828	3.29	
5.821	433682	357258	0.824	0.75	
5.900	408544	286998	0.702	0.71	
5.930	112175	93043	0.829	0.19	
5.993	550288	525232	0.954	0.95	
6.026	662035	591600	0.894	1.15	7 Aroclor 1254
6.055	2148608	1872908	0.872	3.74	
6.169	287555	224889	0.782	0.50	
6.242	321288	179135	0.558	0.56	
6.300	2152610	1808342	0.840	3.75	7 Aroclor 1254
6.334	198087	181176	0.915	0.34	
6.374	74488	63293	0.850	0.12	
6.432	153047	169941	1.110	0.26	
6.438	94499	127515	1.349	0.16	
6.510	927864	822784	0.887	1.61	
6.535	409972	387833	0.946	0.71	
6.561	349107	302450	0.866	0.60	
6.605	71400	59900	0.839	0.12	
6.660	52227	46161	0.884	0.09	
6.718	285113	251784	0.883	0.49	
6.758	325070	279535	0.860	0.56	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.801	281696	255000	0.905	0.49	
6.838	219575	173980	0.792	0.38	
6.912	62299	61539	0.988	0.10	
6.942	273173	258080	0.945	0.47	
7.004	963440	862587	0.895	1.67	8 Aroclor 1260
7.035	83100	66296	0.798	0.14	
7.075	20849	14140	0.678	0.03	
7.122	30135	25613	0.850	0.05	
7.250	405601	361418	0.891	0.70	8 Aroclor 1260
7.280	121632	92726	0.762	0.21	
7.338	24250	18593	0.767	0.04	
7.390	383559	331486	0.864	0.66	
7.420	20527	39563	1.927	0.03	
7.442	382155	327778	0.858	0.66	8 Aroclor 1260
7.494	51498	27623	0.536	0.08	
7.556	37894	23889	0.630	0.06	
7.691	86773	80523	0.928	0.15	
7.727	182051	161566	0.887	0.31	
7.763	37421	28944	0.773	0.06	
7.805	117773	65857	0.559	0.20	
7.862	15917	14032	0.882	0.02	
7.901	278428	238834	0.858	0.48	8 Aroclor 1260
7.956	55609	29938	0.538	0.09	
8.048	15479	11354	0.734	0.02	
8.191	13911	8489	0.610	0.02	
8.275	346941	316147	0.911	0.60	
8.374	30072	24757	0.823	0.05	
8.572	10008003	8779962	0.877	17.44	$ 12 Decachlorobiphenyl
8.725	36590	22478	0.614	0.06	
9.057	10996	8351	0.759	0.01	
9.169	52658	46502	0.883	0.09	
	57364403	50587794		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518018.D
Lab Smp Id: 40150340008 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 17:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340008,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
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	10.024	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	10189250	0.08264		41		

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	769732	0.32853	160	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	686158	0.16533	82	0.00- 20.00	89.14	CO
4.811	4.812	-0.001	356131	0.17543	88	0.00- 20.00	46.27	CO
4.894	4.879	0.015	1269696	0.25205	120	0.00- 20.00	164.95	CO
5.036	5.038	-0.002	490518	0.13669	68	0.00- 20.00	63.73	CO
Average of Peak Concentrations =					100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1111214	0.21226	100	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	480883	0.11181	56	0.00- 20.00	43.28	BA
5.509	5.510	-0.001	1216787	0.15668	78	0.00- 20.00	109.50	BA
6.026	6.027	-0.001	662035	0.13595	68	0.00- 20.00	59.58	BA
6.299	6.299	0.000	2152609	0.33081	160	0.00- 20.00	193.72	BA
Average of Peak Concentrations =					94			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	963440	0.09621	48	0.00- 20.00	44.76	BA
7.249	7.251	-0.002	405600	0.08486	42	0.00- 20.00	18.84	BA
7.441	7.443	-0.002	382155	0.13109	65	0.00- 20.00	17.75	BA
7.900	7.901	-0.001	278427	0.10552	53	0.00- 20.00	12.93	BA
Average of Peak Concentrations =					52			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10008003	0.09135	46			

QC Flag Legend

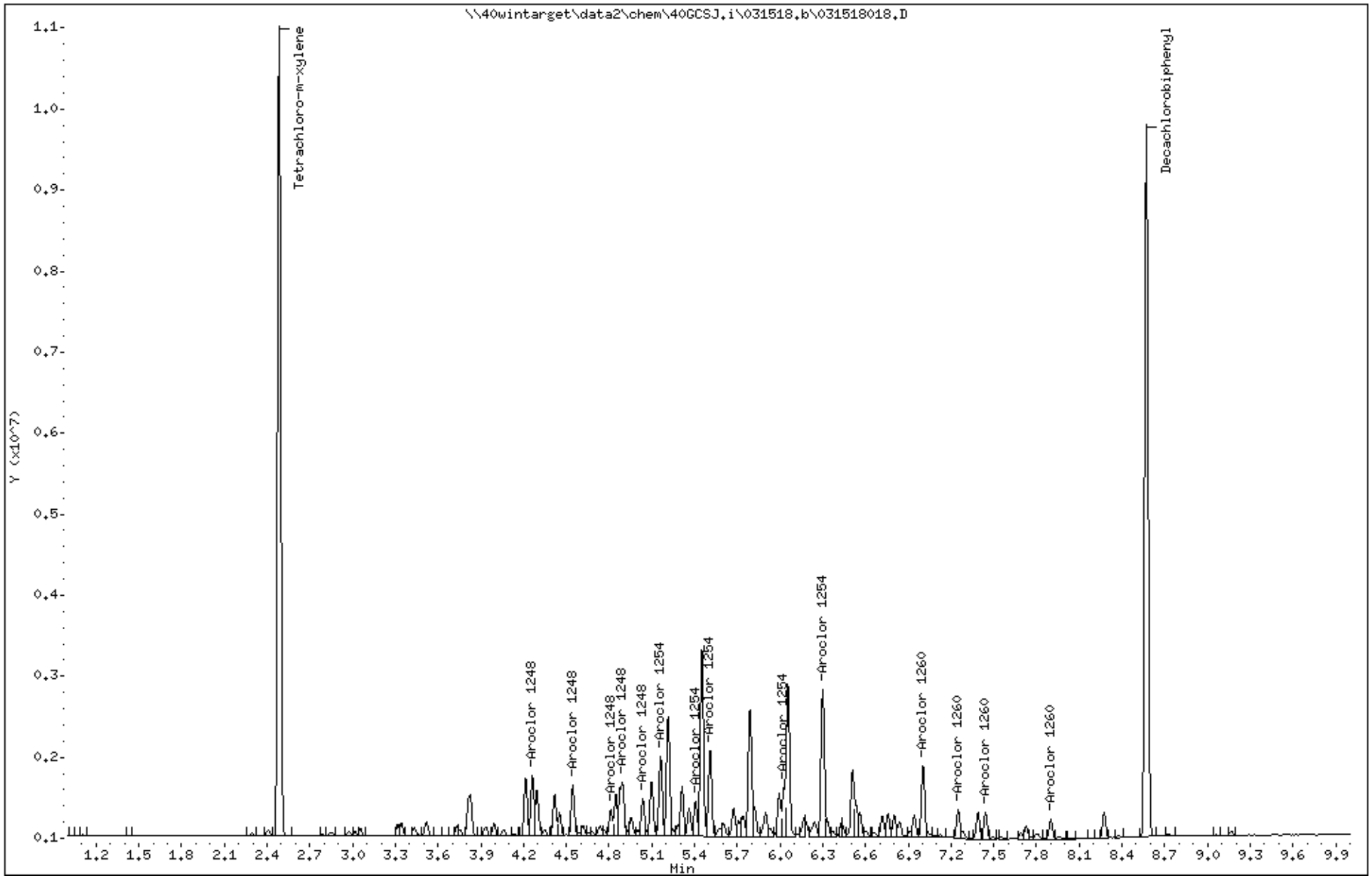
M - Compound response manually integrated.

Review Codes Legend

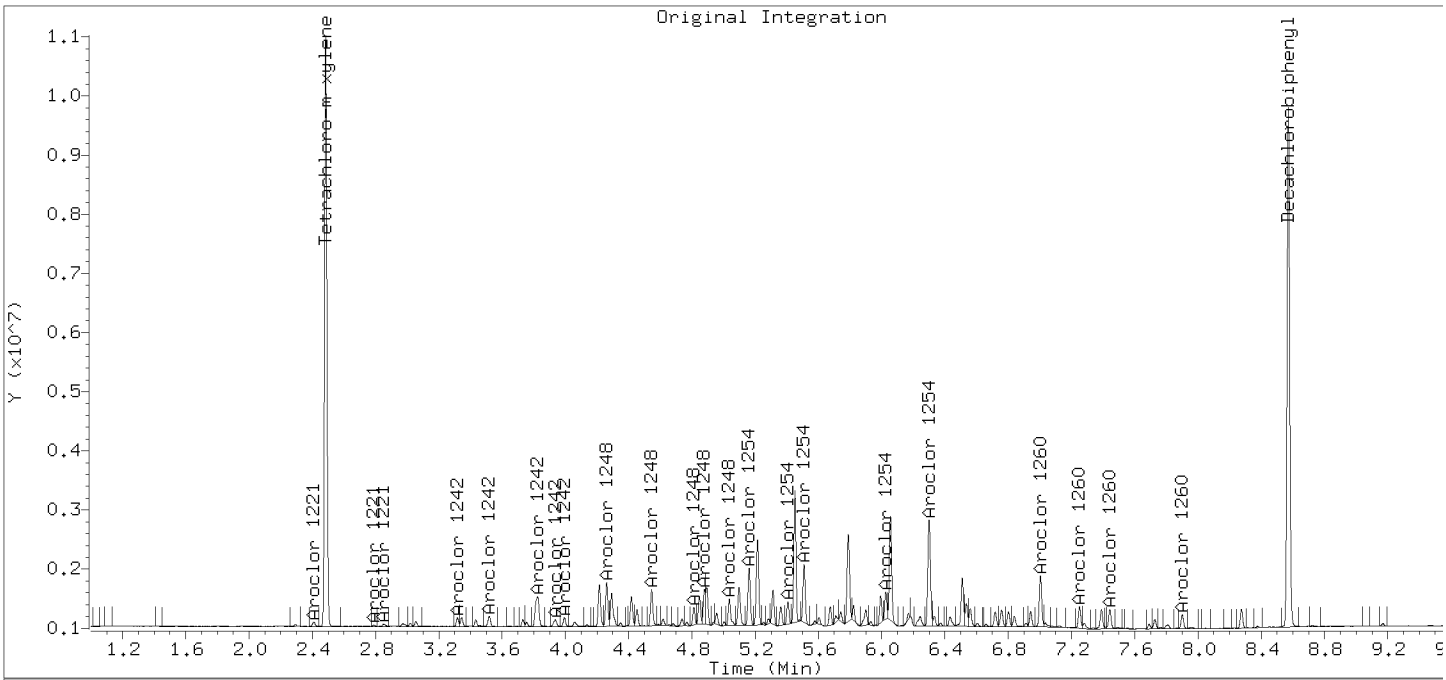
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

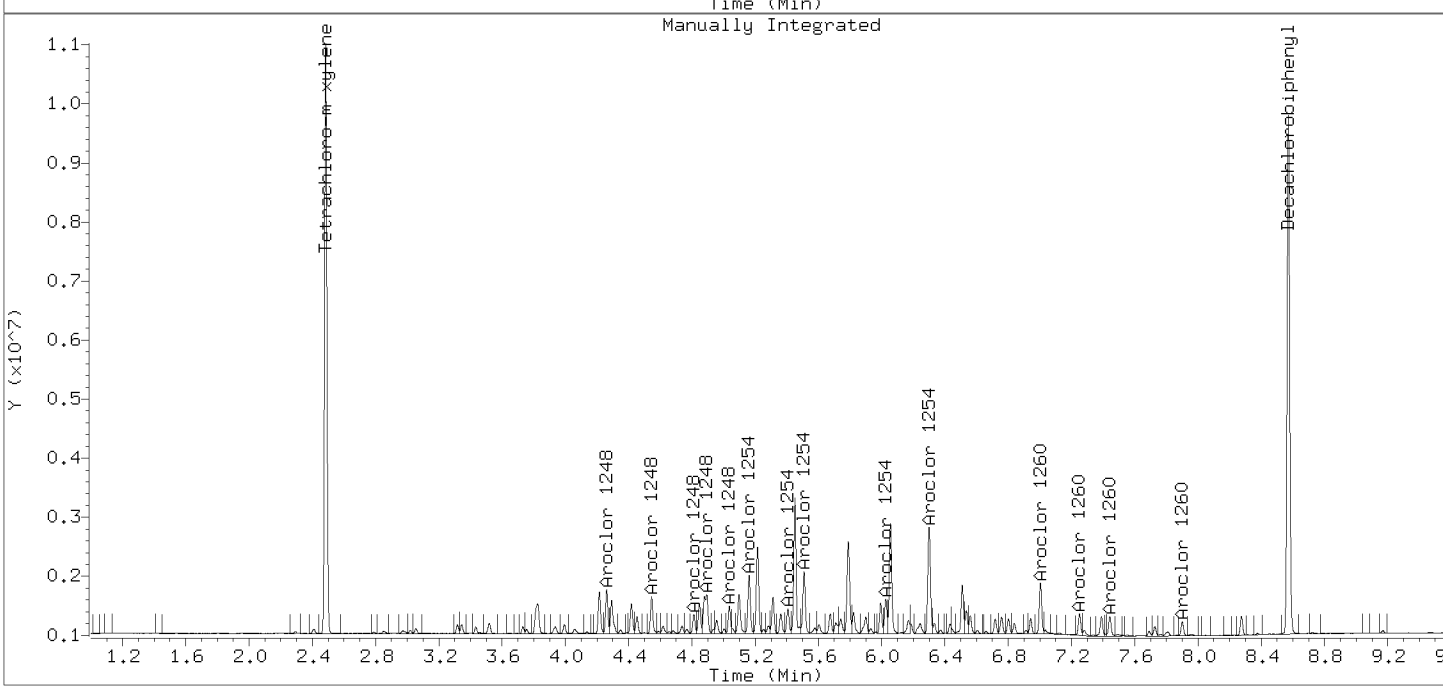
Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518018.D
Date : 15-MAR-2018 17:32
Client ID: AT1-170519-01-STB-1
Sample Info: 40150340008,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 17:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	146578	0	
Aroclor 1016	146578	0	
Aroclor 1016	146578	0	
Aroclor 1016	146578	0	
Aroclor 1016	146578	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	58865	0	
Aroclor 1232	58865	0	
Aroclor 1232	58865	0	
Aroclor 1232	58865	0	

Aroclor 1232	58865	0	
Aroclor 1242	146578	0	
Aroclor 1242	146578	0	
Aroclor 1242	146578	0	
Aroclor 1242	146578	0	
Aroclor 1242	146578	0	
Aroclor 1248	755967	769732	CO
Aroclor 1248	755967	769732	CO
Aroclor 1248	755967	769732	CO
Aroclor 1248	755967	769732	CO
Aroclor 1248	755967	769732	CO
Aroclor 1254	1026095	1111214	BA
Aroclor 1254	1026095	1111214	BA
Aroclor 1254	1026095	1111214	BA
Aroclor 1254	1026095	1111214	BA
Aroclor 1254	1026095	1111214	BA
Aroclor 1260	2119277	0	BA
Aroclor 1260	2119277	0	BA
Aroclor 1260	2119277	0	BA
Aroclor 1260	2119277	0	BA
Aroclor 1260	2119277	0	BA
Tetrachloro-m-xylene	10189250	10189250	
Decachlorobiphenyl	10008003	10008003	

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SAMPLE NO.

AT1-170519-01-STB-12

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340009
Date Analyzed: 03/15/2018 17:48
Lab File ID: 031518.B\031518019.D
Initial wt/vol: 9.9677 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)	137	
11097-69-1	PCB-1254 (Aroclor 1254)	119	
11096-82-5	PCB-1260 (Aroclor 1260)	172	
1336-36-3	PCB, Total	427	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518019.D
Lab Smp Id: 40150340009 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 17:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340009,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	9.968	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.153	10138	8352	0.824	0.01		
1.184	16475	11230	0.682	0.02		
1.955	13472	10885	0.808	0.01		
2.004	12084	7692	0.637	0.01		
2.170	9688	9918	1.024	0.01		
2.200	14754	9776	0.663	0.01		
2.292	31123	28030	0.901	0.03		
2.409	93959	71960	0.766	0.11		
2.484	10408515	10125793	0.973	13.39	$ 2 Tetrachloro-m-xylene	
2.787	27895	25407	0.911	0.03		
2.851	54084	38874	0.719	0.06		
2.972	74254	52000	0.700	0.09		
3.020	45032	45777	1.017	0.05		
3.054	91494	86207	0.942	0.11		
3.317	158399	156673	0.989	0.19		
3.345	191933	174846	0.911	0.23		
3.399	27466	21592	0.786	0.03		
3.434	165643	142748	0.862	0.20		
3.519	230081	193475	0.841	0.28		
3.644	19669	17430	0.886	0.02		
3.693	11989	12030	1.003	0.01		
3.731	169855	171305	1.009	0.20		
3.756	75761	76270	1.007	0.09		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.815	340745	418600	1.228	0.41	
3.826	453146	431291	0.952	0.55	
3.938	217724	175375	0.805	0.26	
3.994	161840	147898	0.914	0.19	
4.057	110502	90218	0.816	0.13	
4.136	39197	36160	0.923	0.04	
4.214	1042349	968729	0.929	1.27	
4.261	1180361	1133577	0.960	1.44	6 Aroclor 1248
4.292	1161253	952435	0.820	1.41	
4.348	40085	32914	0.821	0.04	
4.417	541447	533498	0.985	0.66	
4.452	365485	341661	0.935	0.44	
4.545	911371	860539	0.944	1.11	6 Aroclor 1248
4.590	63294	58861	0.930	0.07	
4.617	154074	139135	0.903	0.18	
4.681	87653	80176	0.915	0.10	
4.738	146828	123534	0.841	0.17	
4.768	134700	128217	0.952	0.16	
4.812	432951	417996	0.965	0.52	6 Aroclor 1248
4.847	548565	529007	0.964	0.67	
4.894	1644397	965919	0.587	2.01	6 Aroclor 1248
4.957	449754	390322	0.868	0.54	
5.004	35964	36160	1.005	0.04	
5.036	375779	363752	0.968	0.45	6 Aroclor 1248
5.059	75310	86529	1.149	0.09	
5.099	1031632	864794	0.838	1.26	
5.161	1665647	1484688	0.891	2.03	7 Aroclor 1254
5.213	1605329	1430454	0.891	1.96	
5.253	57836	56719	0.981	0.07	
5.284	201974	188089	0.931	0.24	
5.312	690358	646889	0.937	0.84	
5.363	488590	443378	0.907	0.59	
5.407	749158	692293	0.924	0.91	7 Aroclor 1254
5.451	2751527	2655033	0.965	3.36	
5.479	155212	198663	1.280	0.18	
5.509	1937448	1563220	0.807	2.36	7 Aroclor 1254
5.577	213062	184703	0.867	0.26	
5.604	214539	181199	0.845	0.26	
5.674	841748	797813	0.948	1.02	
5.710	479369	350137	0.730	0.58	
5.743	512688	368669	0.719	0.62	
5.788	2833304	2343471	0.827	3.46	
5.821	585713	501270	0.856	0.71	
5.884	189038	202600	1.072	0.23	
5.898	270635	235696	0.871	0.33	
5.932	209631	183415	0.875	0.25	
5.964	37280	41087	1.102	0.04	
5.993	1095801	1015276	0.927	1.33	
6.026	989296	885875	0.895	1.20	7 Aroclor 1254
6.056	4154069	3568768	0.859	5.07	
6.167	992437	548350	0.553	1.21	
6.244	640536	357144	0.558	0.78	
6.299	3989464	3430938	0.860	4.87	8 Aroclor 1260
6.333	341490	318622	0.933	0.41	
6.372	118631	103450	0.872	0.14	
6.431	579891	432884	0.746	0.70	
6.484	79545	84313	1.060	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.509	2307698	2080525	0.902	2.82	
6.534	637558	633506	0.994	0.77	
6.560	856552	779252	0.910	1.04	
6.605	128064	117255	0.916	0.15	
6.634	28035	32404	1.156	0.03	
6.659	153836	144617	0.940	0.18	
6.718	645036	585859	0.908	0.78	
6.758	729617	635037	0.870	0.89	
6.802	595734	546482	0.917	0.72	
6.838	384321	330003	0.859	0.46	
6.888	58511	56317	0.962	0.07	
6.911	140562	142228	1.012	0.17	
6.942	1050013	1015934	0.968	1.28	
7.005	2961717	2718482	0.918	3.62	8 Aroclor 1260
7.036	210359	193916	0.922	0.25	
7.055	112864	98362	0.872	0.13	
7.099	9131	13934	1.526	0.01	
7.122	56412	56731	1.006	0.06	
7.251	1119912	1003160	0.896	1.36	8 Aroclor 1260
7.282	313978	277096	0.883	0.38	
7.340	19617	17610	0.898	0.02	
7.389	1109788	955782	0.861	1.35	
7.442	1166410	1036494	0.889	1.42	8 Aroclor 1260
7.495	74456	52823	0.709	0.09	
7.527	28131	25892	0.920	0.03	
7.553	74275	51860	0.698	0.09	
7.614	15451	11549	0.747	0.01	
7.690	294152	264479	0.899	0.35	
7.729	330750	287639	0.870	0.40	
7.764	76479	69393	0.907	0.09	
7.812	334035	234324	0.701	0.40	
7.863	24839	23464	0.945	0.03	
7.901	871974	777110	0.891	1.06	8 Aroclor 1260
7.960	102518	63844	0.623	0.12	
8.050	12810	11677	0.912	0.01	
8.144	11269	8170	0.725	0.01	
8.188	17528	12720	0.726	0.02	
8.275	858697	786899	0.916	1.04	
8.376	47359	36297	0.766	0.05	
8.449	18028	16317	0.905	0.02	
8.571	10061661	8870292	0.882	12.30	$ 12 Decachlorobiphenyl
8.641	11717	12834	1.095	0.01	
8.702	24051	27159	1.129	0.02	
8.725	92619	79558	0.859	0.11	
9.056	17071	13950	0.817	0.02	
9.168	117348	102973	0.877	0.14	
9.287	29460	27109	0.920	0.03	
9.330	18392	10846	0.590	0.02	
9.536	11582	7062	0.610	0.01	
9.700	17236	15902	0.923	0.02	
9.734	34068	27220	0.799	0.04	
	81795099	72701021		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518019.D
Lab Smp Id: 40150340009 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 17:48
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340009,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	9.968	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	10408514	0.08442	42			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1180361	0.50379	250	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	911370	0.21959	110	0.00- 20.00	77.21	CO
4.812	4.812	0.000	432950	0.21327	110	0.00- 20.00	36.68	CO
4.893	4.879	0.014	1644396	0.32643	160	0.00- 20.00	139.31	CO
5.036	5.038	-0.002	375779	0.10472	52	0.00- 20.00	31.84	CO
Average of Peak Concentrations =					140			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1665646	0.31816	160	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	749157	0.17418	87	0.00- 20.00	44.98	BA
5.509	5.510	-0.001	1937448	0.24948	120	0.00- 20.00	116.32	BA
6.026	6.027	-0.001	989296	0.20315	100	0.00- 20.00	59.39	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					120			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	3989464	0.45016	220	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	2961717	0.29575	150	0.00- 20.00	74.24	BA
7.251	7.251	0.000	1119911	0.23430	120	0.00- 20.00	28.07	BA
7.442	7.443	-0.001	1166410	0.40013	200	0.00- 20.00	29.24	BA
7.901	7.901	0.000	871973	0.33045	160	0.00- 20.00	21.86	BA
Average of Peak Concentrations =					170			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10061660	0.09184	46			

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\031518.b\031518019.D

Date : 15-MAR-2018 17:48

Client ID: AT1-170519-01-STB-1

Instrument: 40GCSJ.i

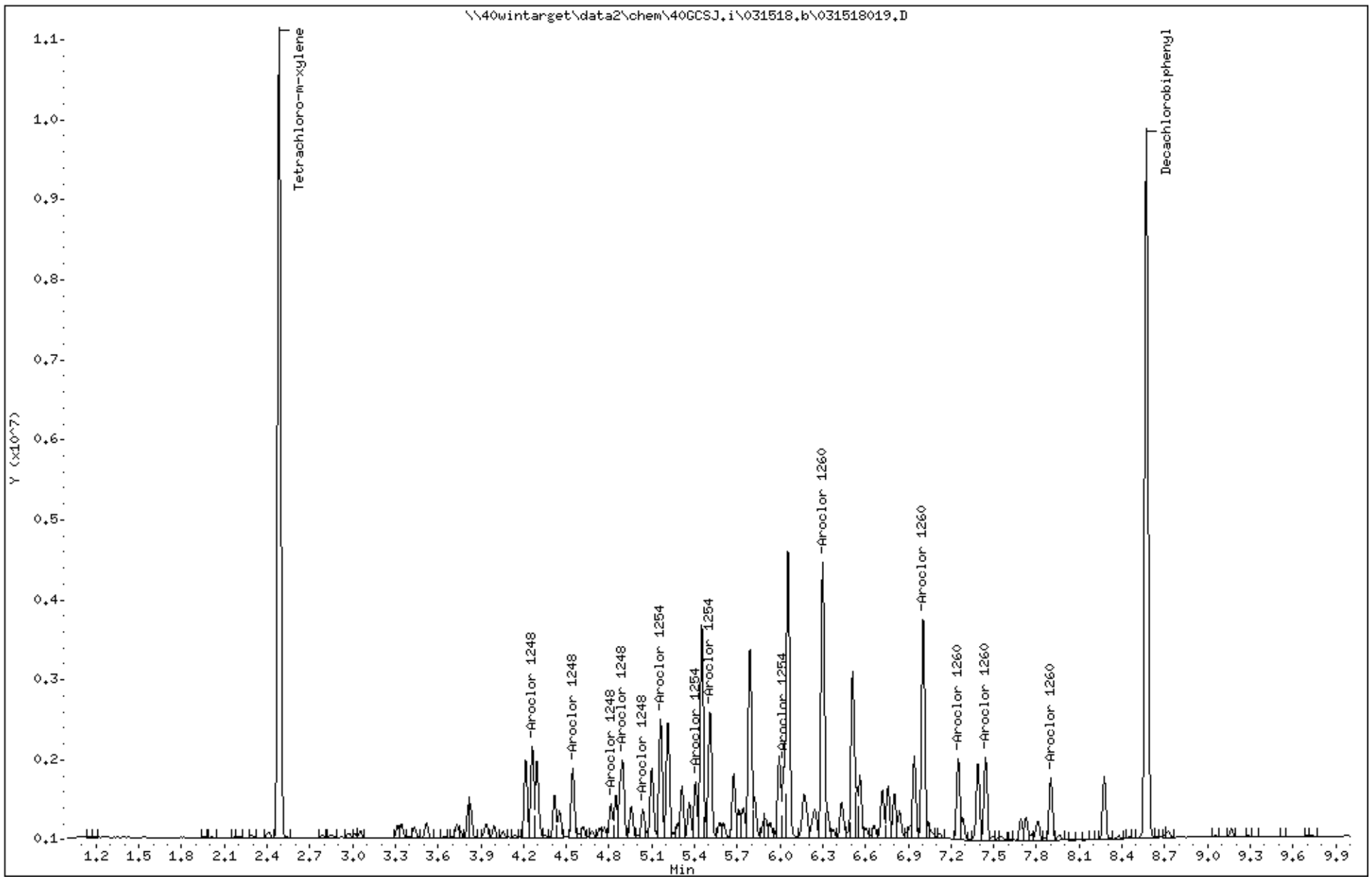
Sample Info: 40150340009,

Volume Injected (uL): 1.0

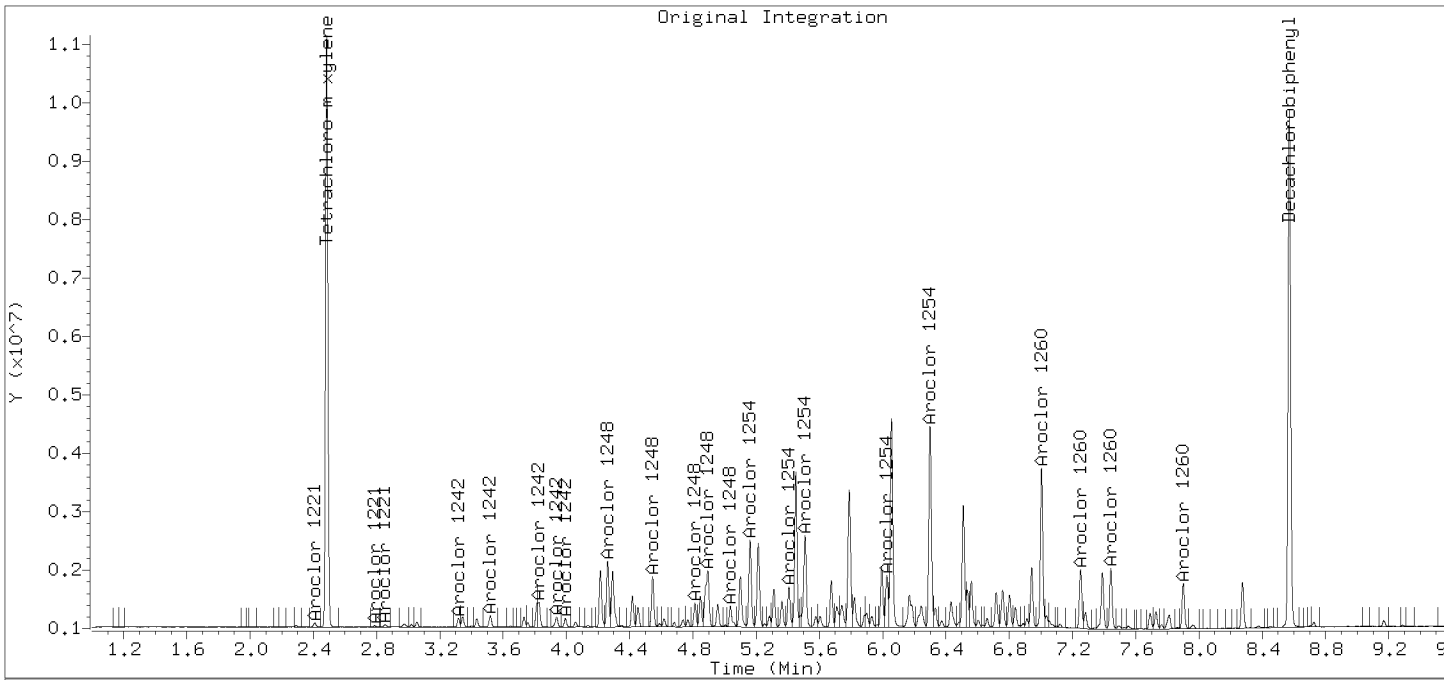
Operator: BLM

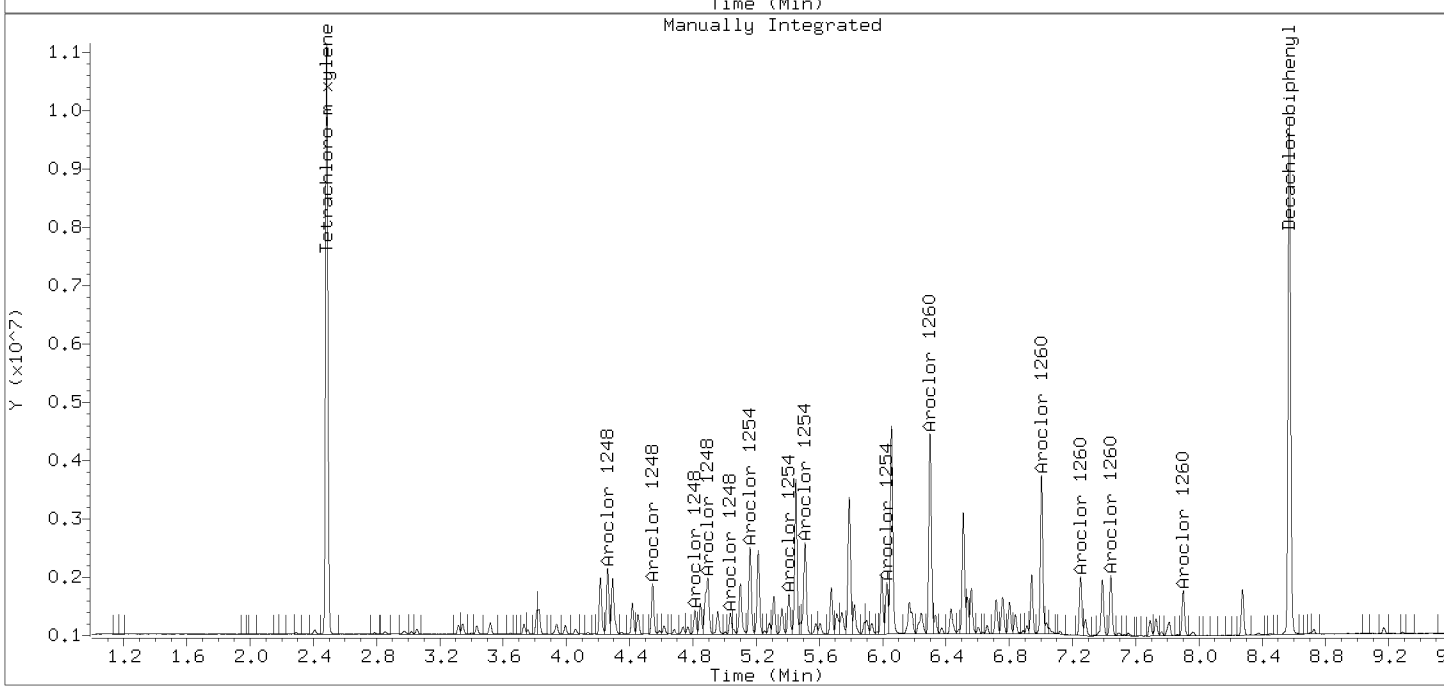
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 17:48 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	158398	0	
Aroclor 1016	158398	0	
Aroclor 1016	158398	0	
Aroclor 1016	158398	0	
Aroclor 1016	158398	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	54084	0	
Aroclor 1232	54084	0	
Aroclor 1232	54084	0	
Aroclor 1232	54084	0	

Aroclor 1232	54084	0	
Aroclor 1242	158398	0	
Aroclor 1242	158398	0	
Aroclor 1242	158398	0	
Aroclor 1242	158398	0	
Aroclor 1242	158398	0	
Aroclor 1248	1173554	1180361	CO
Aroclor 1248	1173554	1180361	CO
Aroclor 1248	1173554	1180361	CO
Aroclor 1248	1173554	1180361	CO
Aroclor 1248	1173554	1180361	CO
Aroclor 1254	1660940	1665646	BA
Aroclor 1254	1660940	1665646	BA
Aroclor 1254	1660940	1665646	BA
Aroclor 1254	1660940	1665646	BA
Aroclor 1254	1660940	1665646	BA
Aroclor 1260	4006037	3989464	BA
Aroclor 1260	4006037	3989464	BA
Aroclor 1260	4006037	3989464	BA
Aroclor 1260	4006037	3989464	BA
Aroclor 1260	4006037	3989464	BA
Tetrachloro-m-xylene	10408514	10408514	
Decachlorobiphenyl	10061660	10061660	

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SAMPLE NO.

AT1-170519-01-STB-11

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340010
Date Analyzed: 03/15/2018 18:04
Lab File ID: 031518.B\031518020.D
Initial wt/vol: 9.9698 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)	60.7	
11097-69-1	PCB-1254 (Aroclor 1254)	66.2	
11096-82-5	PCB-1260 (Aroclor 1260)	95.0	
1336-36-3	PCB, Total	222	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518020.D
Lab Smp Id: 40150340010 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 18:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340010,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.970	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.067	26324	18125	0.689	0.04		
1.107	33073	23362	0.706	0.05		
1.162	19462	20144	1.035	0.03		
1.428	10359	10662	1.029	0.01		
1.535	13282	11007	0.829	0.02		
1.768	35494	34702	0.978	0.05		
1.802	12166	13071	1.074	0.01		
1.952	28436	20014	0.704	0.04		
2.125	10495	7887	0.751	0.01		
2.169	10976	12164	1.108	0.01		
2.289	13860	13887	1.002	0.02		
2.316	20455	19215	0.939	0.03		
2.360	13793	11753	0.852	0.02		
2.410	219448	186597	0.850	0.34		
2.484	11687836	11443009	0.979	19.40	$ 2 Tetrachloro-m-xylene	
2.788	34800	29844	0.858	0.05		
2.834	38744	24823	0.641	0.06		
2.974	255871	161249	0.630	0.40		
3.019	90285	92274	1.022	0.14		
3.055	141852	128933	0.909	0.22		
3.318	106897	102741	0.961	0.17		
3.344	98583	93281	0.946	0.15		
3.399	16357	14392	0.880	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.433	149331	131574	0.881	0.23	
3.518	172989	148672	0.859	0.27	
3.643	19335	13850	0.716	0.03	
3.731	98971	100769	1.018	0.15	
3.754	54123	53221	0.983	0.08	
3.825	460921	255345	0.554	0.73	
3.937	132421	100092	0.756	0.21	
3.992	95156	86993	0.914	0.15	
4.057	79714	53685	0.673	0.12	
4.135	23922	23372	0.977	0.03	
4.215	482467	452454	0.938	0.76	
4.261	477315	462509	0.969	0.76	6 Aroclor 1248
4.293	374072	294173	0.786	0.59	
4.349	40103	30740	0.767	0.06	
4.416	260779	243163	0.932	0.41	
4.453	160703	146515	0.912	0.25	
4.505	37579	24547	0.653	0.05	
4.545	350643	320703	0.915	0.55	6 Aroclor 1248
4.590	28282	27620	0.977	0.04	
4.617	62281	53710	0.862	0.09	
4.656	17488	19209	1.098	0.02	
4.681	45202	38161	0.844	0.07	
4.738	90914	70279	0.773	0.14	
4.767	52734	50644	0.960	0.08	
4.813	206625	191354	0.926	0.32	6 Aroclor 1248
4.847	288284	272143	0.944	0.45	
4.893	779071	445397	0.572	1.24	6 Aroclor 1248
4.957	226674	179319	0.791	0.36	
5.003	38985	37310	0.957	0.06	
5.036	218306	209873	0.961	0.34	6 Aroclor 1248
5.060	88378	88629	1.003	0.14	
5.100	591098	450035	0.761	0.94	
5.162	1032792	921393	0.892	1.64	7 Aroclor 1254
5.213	1173702	1037151	0.884	1.87	
5.253	82396	78524	0.953	0.13	
5.284	151479	128172	0.846	0.24	
5.313	559101	540376	0.967	0.89	
5.363	314590	283813	0.902	0.50	
5.406	373026	334855	0.898	0.59	7 Aroclor 1254
5.451	2730619	2686827	0.984	4.35	
5.480	68265	103447	1.515	0.10	
5.510	967414	786405	0.813	1.54	7 Aroclor 1254
5.578	174356	136589	0.783	0.27	
5.604	194630	141334	0.726	0.31	
5.674	423118	389186	0.920	0.67	
5.710	276035	213369	0.773	0.44	
5.742	407444	286025	0.702	0.64	
5.789	1981074	1635057	0.825	3.15	
5.822	450950	380388	0.844	0.71	
5.899	352332	228699	0.649	0.56	
5.931	145599	121483	0.834	0.23	
5.964	50947	52382	1.028	0.08	
5.993	826309	763690	0.924	1.31	
6.026	581300	512636	0.882	0.92	7 Aroclor 1254
6.056	3070895	2746026	0.894	4.89	
6.169	262362	214552	0.818	0.41	
6.186	230780	209106	0.906	0.36	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.244	443602	255083	0.575	0.70	
6.299	2741080	2261727	0.825	4.36	8 Aroclor 1260
6.333	228821	202995	0.887	0.36	
6.372	77668	63567	0.818	0.12	
6.408	22717	26790	1.179	0.03	
6.432	396773	278604	0.702	0.63	
6.485	60306	69756	1.157	0.09	
6.510	1490617	1300130	0.872	2.37	
6.536	447111	443018	0.991	0.71	
6.560	515737	440080	0.853	0.82	
6.603	212741	133168	0.626	0.33	
6.661	66006	49226	0.746	0.10	
6.718	282955	223105	0.788	0.45	
6.758	475406	398334	0.838	0.75	
6.802	384055	338593	0.882	0.61	
6.839	357679	295129	0.825	0.57	
6.888	26598	27941	1.051	0.04	
6.912	144259	140811	0.976	0.22	
6.942	551408	517496	0.938	0.87	
7.004	1346049	1236759	0.919	2.14	8 Aroclor 1260
7.036	168195	112520	0.669	0.26	
7.076	35469	28646	0.808	0.05	
7.120	35622	28518	0.801	0.05	
7.252	528678	457906	0.866	0.84	8 Aroclor 1260
7.282	161284	120696	0.748	0.25	
7.342	30893	23757	0.769	0.04	
7.360	12231	25974	2.124	0.01	
7.390	600334	550846	0.918	0.95	
7.419	56949	79233	1.391	0.09	
7.443	616192	544772	0.884	0.98	8 Aroclor 1260
7.492	134397	95370	0.710	0.21	
7.529	54974	43490	0.791	0.08	
7.560	146283	112196	0.767	0.23	
7.623	68275	37038	0.542	0.10	
7.665	10528	14480	1.375	0.01	
7.692	105059	103252	0.983	0.16	
7.729	411829	369488	0.897	0.65	
7.761	42071	36264	0.862	0.06	
7.804	294340	158996	0.540	0.46	
7.861	36662	28164	0.768	0.05	
7.901	477537	398171	0.834	0.76	8 Aroclor 1260
7.958	76822	43680	0.569	0.12	
8.047	39142	31218	0.798	0.06	
8.104	15087	12319	0.817	0.02	
8.152	10281	8642	0.841	0.01	
8.193	29546	19045	0.645	0.04	
8.276	883219	767211	0.869	1.40	
8.350	9852	9892	1.004	0.01	
8.377	52704	39025	0.740	0.08	
8.449	49964	20129	0.403	0.07	
8.512	10307	11377	1.104	0.01	
8.572	10750186	9376927	0.872	17.13	$ 12 Decachlorobiphenyl
8.702	58845	51911	0.882	0.09	
8.726	120328	108911	0.905	0.19	
8.841	19970	16984	0.850	0.03	
8.993	23486	17324	0.738	0.03	
9.055	16907	19656	1.163	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.168	45170	42934	0.950	0.07	
9.282	9289	9590	1.032	0.01	
9.331	10941	11229	1.026	0.01	
9.405	11782	9475	0.804	0.01	
9.465	47465	21678	0.457	0.07	
9.543	31223	16154	0.517	0.04	
9.701	22723	20406	0.898	0.03	
9.736	49075	37743	0.769	0.07	
9.954	9354	11054	1.182	0.01	
	62728284	55307284		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518020.D
Lab Smp Id: 40150340010 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 18:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340010,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.970	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	11687835	0.09480	48			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	477315	0.20372	100	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	350643	0.08449	42	0.00- 20.00	73.46	BA
4.812	4.812	0.000	206624	0.10178	51	0.00- 20.00	43.29	BA
4.893	4.879	0.014	779070	0.15466	78	0.00- 20.00	163.22	BA
5.036	5.038	-0.002	218306	0.06083	30	0.00- 20.00	45.74	BA
			Average of Peak Concentrations =		61			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1032791	0.19728	99	0.00- 20.00	100.00(M)	CO
5.405	5.408	-0.003	373026	0.08673	43	0.00- 20.00	36.12	CO
5.509	5.510	-0.001	967414	0.12457	62	0.00- 20.00	93.67	CO
6.025	6.027	-0.002	581300	0.11937	60	0.00- 20.00	56.28	CO
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	CO
			Average of Peak Concentrations =		66			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	2741080	0.30929	160	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1346049	0.13441	67	0.00- 20.00	49.11	BA
7.251	7.251	0.000	528677	0.11061	55	0.00- 20.00	19.29	BA
7.442	7.443	-0.001	616192	0.21138	110	0.00- 20.00	22.48	BA
7.900	7.901	-0.001	477537	0.18097	91	0.00- 20.00	17.42	BA
			Average of Peak Concentrations =		95			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10750185	0.09812	49			

QC Flag Legend

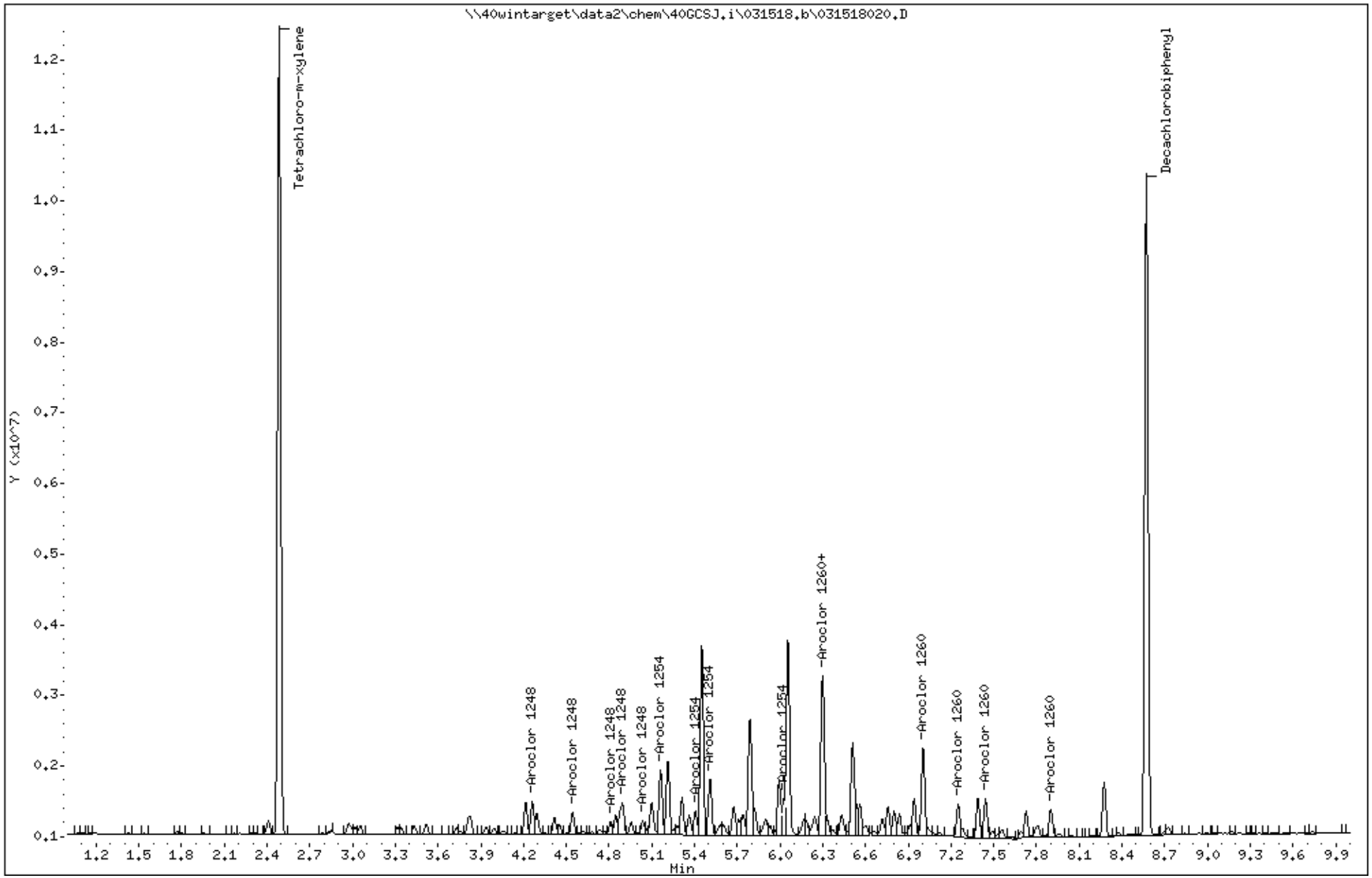
M - Compound response manually integrated.

Review Codes Legend

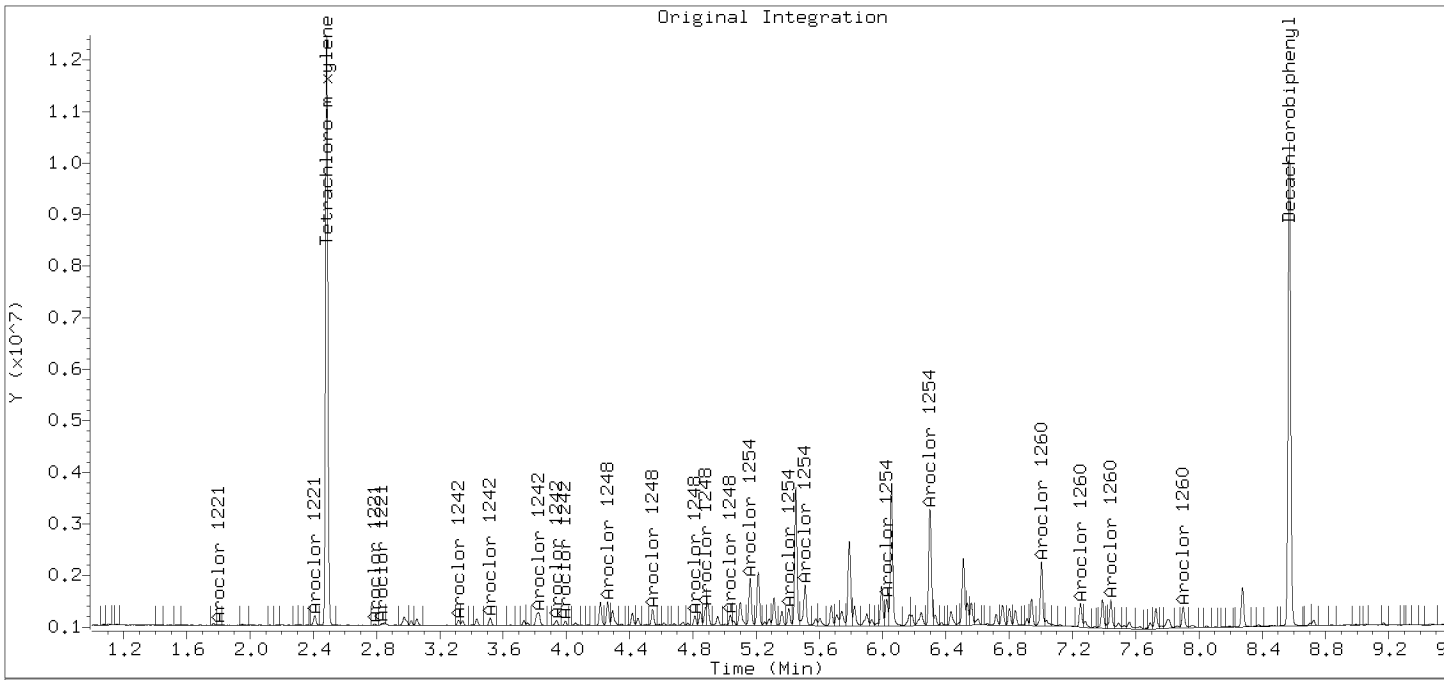
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

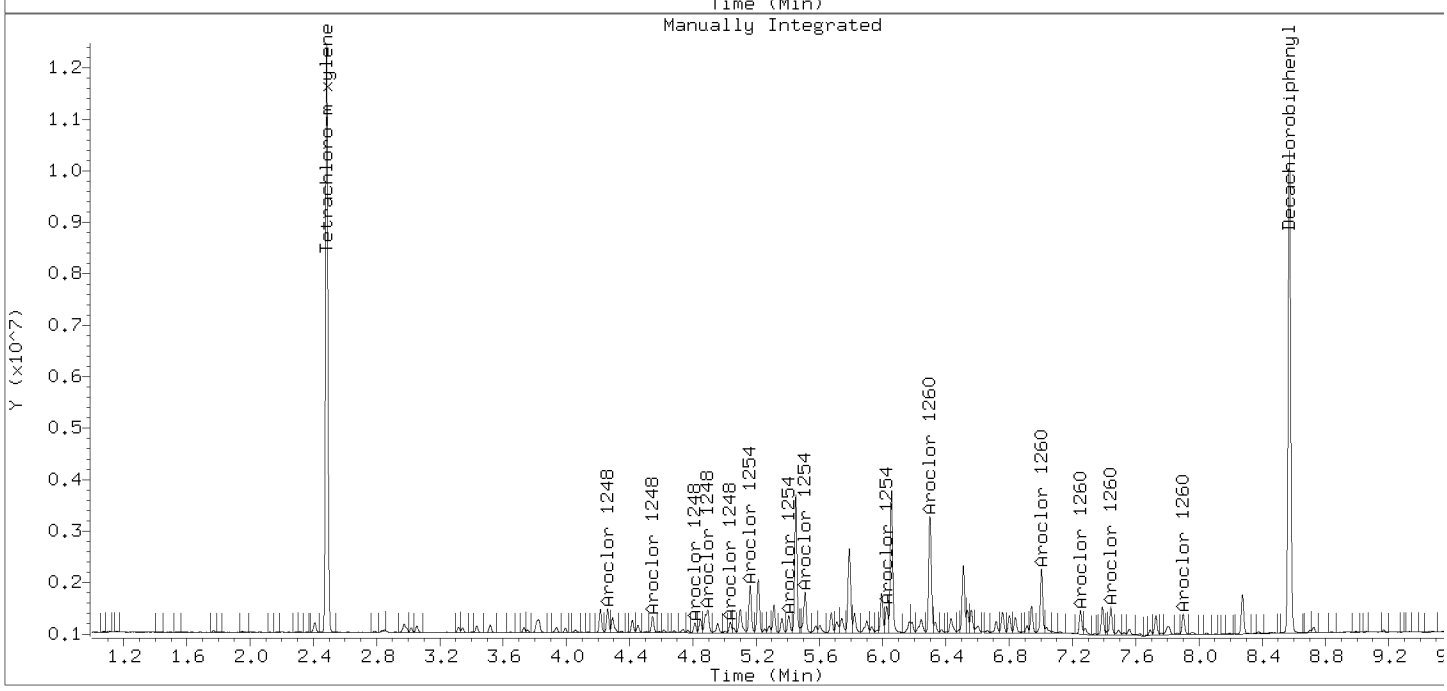
Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518020.D
Date : 15-MAR-2018 18:04
Client ID: AT1-170519-01-STB-1
Sample Info: 40150340010,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 18:04 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	106897	0	
Aroclor 1016	106897	0	
Aroclor 1016	106897	0	
Aroclor 1016	106897	0	
Aroclor 1016	106897	0	
Aroclor 1221	12165	0	
Aroclor 1221	12165	0	
Aroclor 1221	12165	0	
Aroclor 1221	12165	0	
Aroclor 1221	12165	0	
Aroclor 1232	38743	0	
Aroclor 1232	38743	0	
Aroclor 1232	38743	0	
Aroclor 1232	38743	0	

Aroclor 1232	38743	0	
Aroclor 1242	106897	0	
Aroclor 1242	106897	0	
Aroclor 1242	106897	0	
Aroclor 1242	106897	0	
Aroclor 1242	106897	0	
Aroclor 1248	466908	477315	BA
Aroclor 1248	466908	477315	BA
Aroclor 1248	466908	477315	BA
Aroclor 1248	466908	477315	BA
Aroclor 1248	466908	477315	BA
Aroclor 1254	1025458	1032791	CO
Aroclor 1254	1025458	1032791	CO
Aroclor 1254	1025458	1032791	CO
Aroclor 1254	1025458	1032791	CO
Aroclor 1254	1025458	1032791	CO
Aroclor 1260	2720909	2741080	BA
Aroclor 1260	2720909	2741080	BA
Aroclor 1260	2720909	2741080	BA
Aroclor 1260	2720909	2741080	BA
Aroclor 1260	2720909	2741080	BA
Tetrachloro-m-xylene	11687835	11687835	
Decachlorobiphenyl	10750185	10750185	

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SAMPLE NO.

AT1-170519-01-STB-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340011
Date Analyzed: 03/15/2018 18:20
Lab File ID: 031518.B\031518021.D
Initial wt/vol: 9.9901 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)	67.6	
11097-69-1	PCB-1254 (Aroclor 1254)	70.8	
11096-82-5	PCB-1260 (Aroclor 1260)	120	
1336-36-3	PCB, Total	259	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518021.D
Lab Smp Id: 40150340011 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 18:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340011,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
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	9.990	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.030	10566	11118	1.052	0.01		
1.076	19955	14296	0.716	0.02		
1.108	17764	15363	0.865	0.02		
1.159	16287	15149	0.930	0.02		
1.426	14596	12927	0.886	0.02		
1.538	15442	11298	0.732	0.02		
1.771	22785	22727	0.997	0.03		
1.803	11104	10557	0.951	0.01		
1.949	19744	14999	0.760	0.02		
2.170	10828	10276	0.949	0.01		
2.194	11817	9395	0.795	0.01		
2.292	25473	21075	0.827	0.03		
2.411	172186	147528	0.857	0.24		
2.485	12550391	12458881	0.993	18.50	$ 2 Tetrachloro-m-xylene	
2.787	33695	31474	0.934	0.04		
2.833	16738	30386	1.815	0.02		
2.853	79331	50774	0.640	0.11		
2.975	188120	117175	0.623	0.26		
3.019	73121	76540	1.047	0.10		
3.054	121701	114944	0.944	0.17		
3.318	96034	96526	1.005	0.13		
3.345	99325	91536	0.922	0.14		
3.401	19981	14463	0.724	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.434	146881	133733	0.910	0.20	
3.518	169661	147614	0.870	0.23	
3.644	9652	11579	1.200	0.01	
3.732	91494	91335	0.998	0.12	
3.756	43355	44538	1.027	0.06	
3.824	452421	247458	0.547	0.63	
3.938	139775	103477	0.740	0.19	
3.994	99815	89009	0.892	0.14	
4.059	71817	55677	0.775	0.10	
4.135	23931	21461	0.897	0.03	
4.215	542417	518279	0.955	0.76	
4.260	543152	526774	0.970	0.76	6 Aroclor 1248
4.293	452832	356316	0.787	0.64	
4.350	37609	29206	0.777	0.05	
4.417	283339	256126	0.904	0.40	
4.452	184985	163743	0.885	0.26	
4.501	42918	27392	0.638	0.06	
4.546	404125	374200	0.926	0.57	6 Aroclor 1248
4.588	29692	31308	1.054	0.04	
4.617	69780	58073	0.832	0.09	
4.681	44060	40615	0.922	0.06	
4.737	91122	74401	0.816	0.12	
4.767	61751	57452	0.930	0.08	
4.812	229730	215868	0.940	0.32	6 Aroclor 1248
4.847	335783	314589	0.937	0.47	
4.893	855450	463211	0.541	1.21	6 Aroclor 1248
4.956	227494	193018	0.848	0.32	
5.005	35993	34980	0.972	0.05	
5.037	227094	220682	0.972	0.32	6 Aroclor 1248
5.057	117061	108839	0.930	0.16	
5.099	631917	487387	0.771	0.89	
5.162	1092296	998411	0.914	1.54	7 Aroclor 1254
5.213	1232051	1099407	0.892	1.74	
5.254	94256	91398	0.970	0.13	
5.281	157064	133718	0.851	0.22	
5.313	626465	608541	0.971	0.88	
5.363	338405	304389	0.899	0.47	
5.407	402457	364118	0.905	0.56	7 Aroclor 1254
5.452	3337131	3363334	1.008	4.72	
5.479	81716	114996	1.407	0.11	
5.510	1039743	830077	0.798	1.47	7 Aroclor 1254
5.577	194433	155653	0.801	0.27	
5.603	213262	165751	0.777	0.30	
5.675	478698	462583	0.966	0.67	
5.711	303769	221174	0.728	0.42	
5.741	408028	300737	0.737	0.57	
5.790	2091791	1740392	0.832	2.95	
5.822	501952	446191	0.889	0.71	
5.900	378113	254404	0.673	0.53	
5.932	144914	130667	0.902	0.20	
5.965	46186	47631	1.031	0.06	
5.994	908872	865373	0.952	1.28	
6.026	633663	556418	0.878	0.89	7 Aroclor 1254
6.056	3401116	3062125	0.900	4.81	
6.169	297456	246307	0.828	0.42	
6.184	266541	249000	0.934	0.37	
6.243	464328	289534	0.624	0.65	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.300	3016306	2572697	0.853	4.26	8 Aroclor 1260
6.333	236309	210847	0.892	0.33	
6.373	66160	60343	0.912	0.09	
6.432	467833	329869	0.705	0.66	
6.485	57633	73583	1.277	0.08	
6.510	1853333	1588611	0.857	2.62	
6.535	478070	490582	1.026	0.67	
6.561	659146	580070	0.880	0.93	
6.604	200501	137019	0.683	0.28	
6.636	12111	15490	1.279	0.01	
6.660	62909	56534	0.899	0.08	
6.719	306992	266286	0.867	0.43	
6.758	579648	488072	0.842	0.81	
6.802	437357	408472	0.934	0.61	
6.838	434291	383383	0.883	0.61	
6.887	22706	28641	1.261	0.03	
6.913	181327	182002	1.004	0.25	
6.942	682876	661726	0.969	0.96	
7.004	1741386	1561263	0.897	2.46	8 Aroclor 1260
7.035	180287	130904	0.726	0.25	
7.074	28802	24233	0.841	0.04	
7.121	37287	31459	0.844	0.05	
7.252	661217	589651	0.892	0.93	8 Aroclor 1260
7.280	188921	145605	0.771	0.26	
7.340	26776	22784	0.851	0.03	
7.390	917378	778560	0.849	1.29	
7.419	49359	78562	1.592	0.06	
7.443	862425	768032	0.891	1.21	8 Aroclor 1260
7.492	166754	130550	0.783	0.23	
7.527	66570	55945	0.840	0.09	
7.560	122504	90487	0.739	0.17	
7.622	29440	24152	0.820	0.04	
7.691	186069	165712	0.891	0.26	
7.728	657192	597194	0.909	0.92	
7.762	47892	44340	0.926	0.06	
7.805	404546	234216	0.579	0.57	
7.862	40870	33986	0.832	0.05	
7.900	662648	603219	0.910	0.93	8 Aroclor 1260
7.959	88566	54186	0.612	0.12	
8.047	39756	31567	0.794	0.05	
8.100	17173	15384	0.896	0.02	
8.194	40826	26252	0.643	0.05	
8.275	1384340	1241549	0.897	1.95	
8.375	57105	46320	0.811	0.08	
8.450	26096	18856	0.723	0.03	
8.571	11883388	10524371	0.886	16.80	$ 12 Decachlorobiphenyl
8.702	83973	75292	0.897	0.11	
8.726	182071	156940	0.862	0.25	
8.836	20038	18192	0.908	0.02	
8.939	14738	10246	0.695	0.02	
8.991	31737	26750	0.843	0.04	
9.033	16359	14620	0.894	0.02	
9.055	39360	26837	0.682	0.05	
9.095	34917	18180	0.521	0.04	
9.168	88398	70147	0.794	0.12	
9.228	19750	13042	0.660	0.02	
9.286	25917	18295	0.706	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.330	44847	24285	0.542	0.06	
9.404	16493	12399	0.752	0.02	
9.466	26676	19902	0.746	0.03	
9.544	20922	18416	0.880	0.02	
9.597	11360	10606	0.934	0.01	
9.672	12122	10990	0.907	0.01	
9.698	39403	36368	0.923	0.05	
9.736	72698	57134	0.786	0.10	
9.854	11212	10458	0.933	0.01	
9.939	12942	10991	0.849	0.01	
9.984	16873	17277	1.024	0.02	
	70692686	63281009		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518021.D
Lab Smp Id: 40150340011 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 18:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340011,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
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	9.990	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.484	2.484	0.000	12550391	0.10179	51			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	543152	0.23182	120	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	404124	0.09737	49	0.00- 20.00	74.40	BA
4.811	4.812	-0.001	229730	0.11316	57	0.00- 20.00	42.30	BA
4.893	4.879	0.014	855449	0.16982	85	0.00- 20.00	157.50	BA
5.036	5.038	-0.002	227094	0.06328	32	0.00- 20.00	41.81	BA
Average of Peak Concentrations =					68			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1092295	0.20864	100	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	402457	0.09357	47	0.00- 20.00	36.85	BA
5.509	5.510	-0.001	1039742	0.13388	67	0.00- 20.00	95.19	BA
6.026	6.027	-0.001	633662	0.13012	65	0.00- 20.00	58.01	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					71			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	3016306	0.34035	170	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	1741386	0.17389	87	0.00- 20.00	57.73	CO
7.251	7.251	0.000	661216	0.13834	69	0.00- 20.00	21.92	CO
7.443	7.443	0.000	862425	0.29585	150	0.00- 20.00	28.59	CO
7.899	7.901	-0.002	662648	0.25112	120	0.00- 20.00	21.97	CO
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	11883388	0.10846	54			

QC Flag Legend

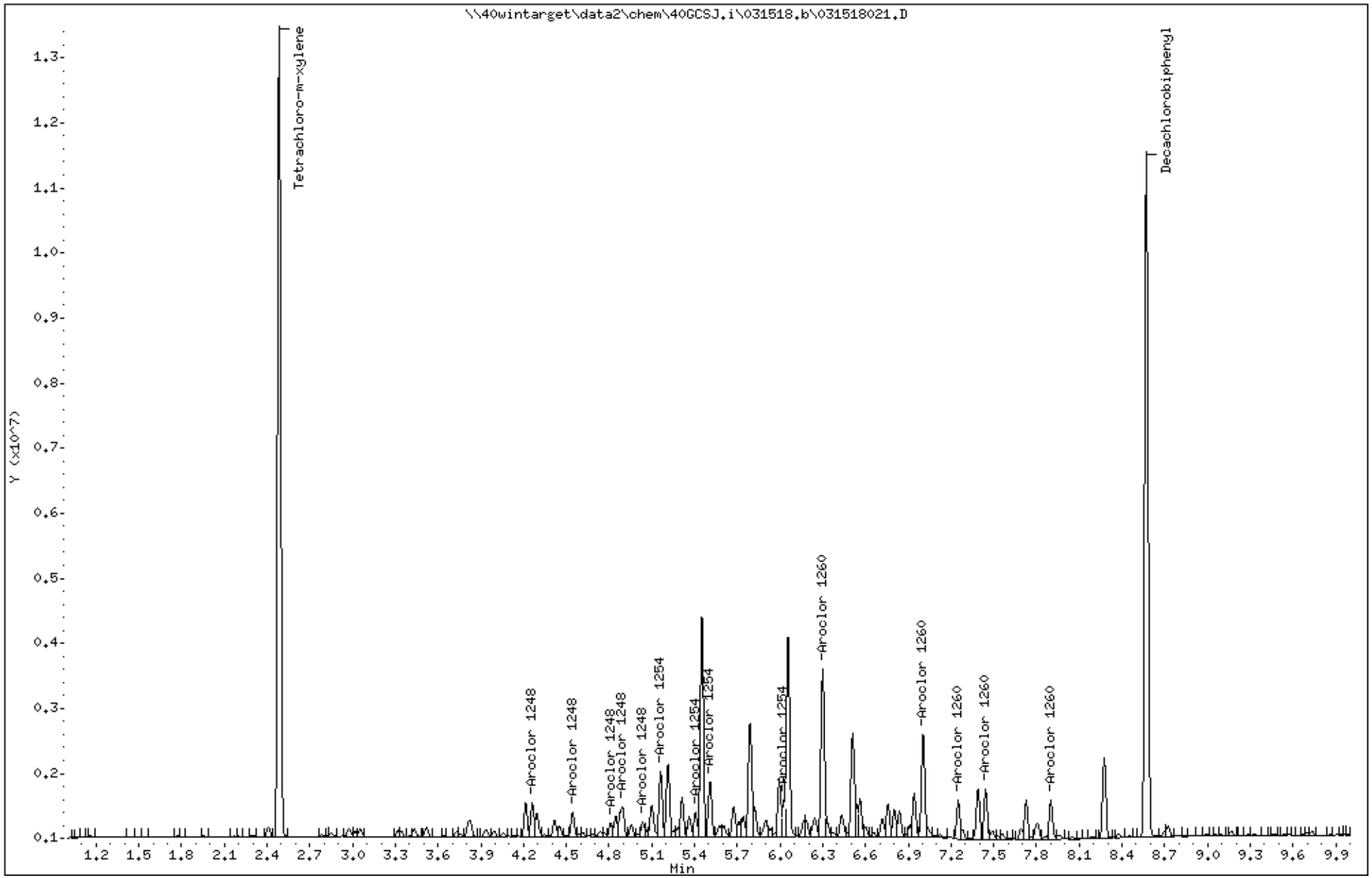
M - Compound response manually integrated.

Review Codes Legend

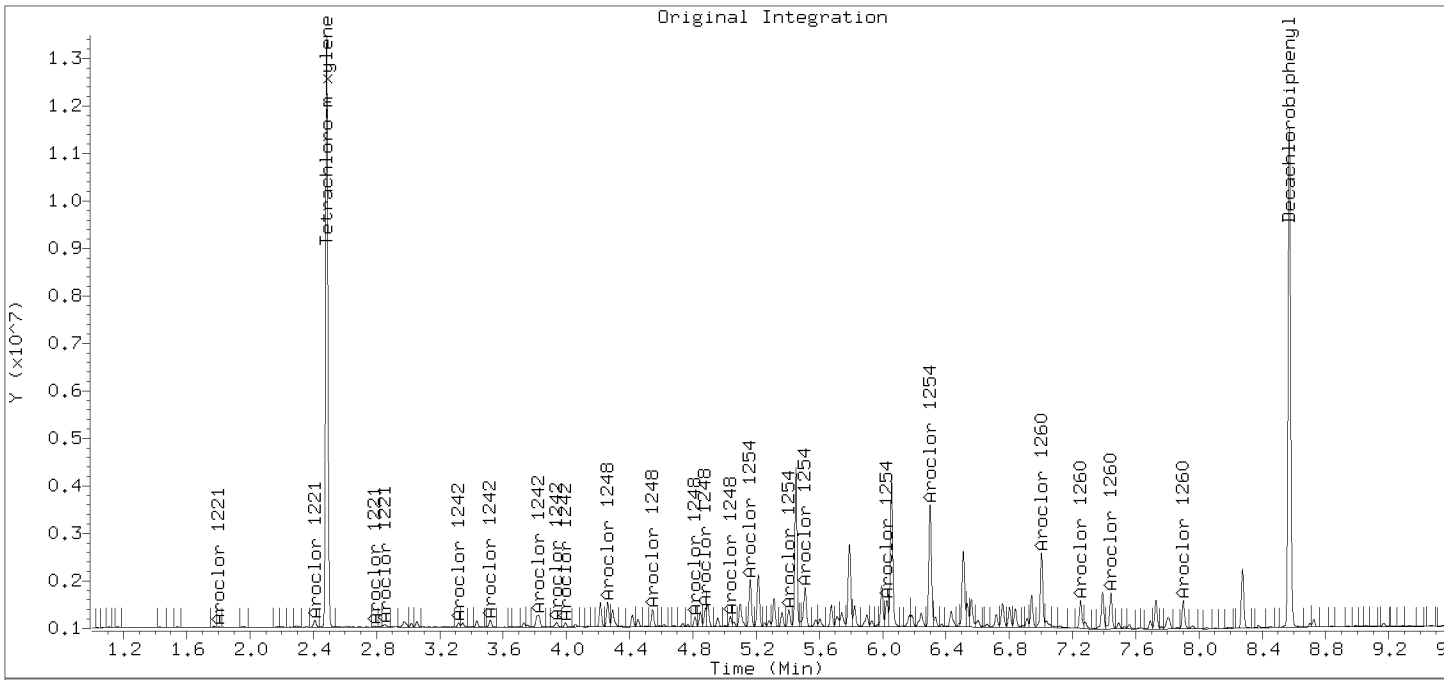
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

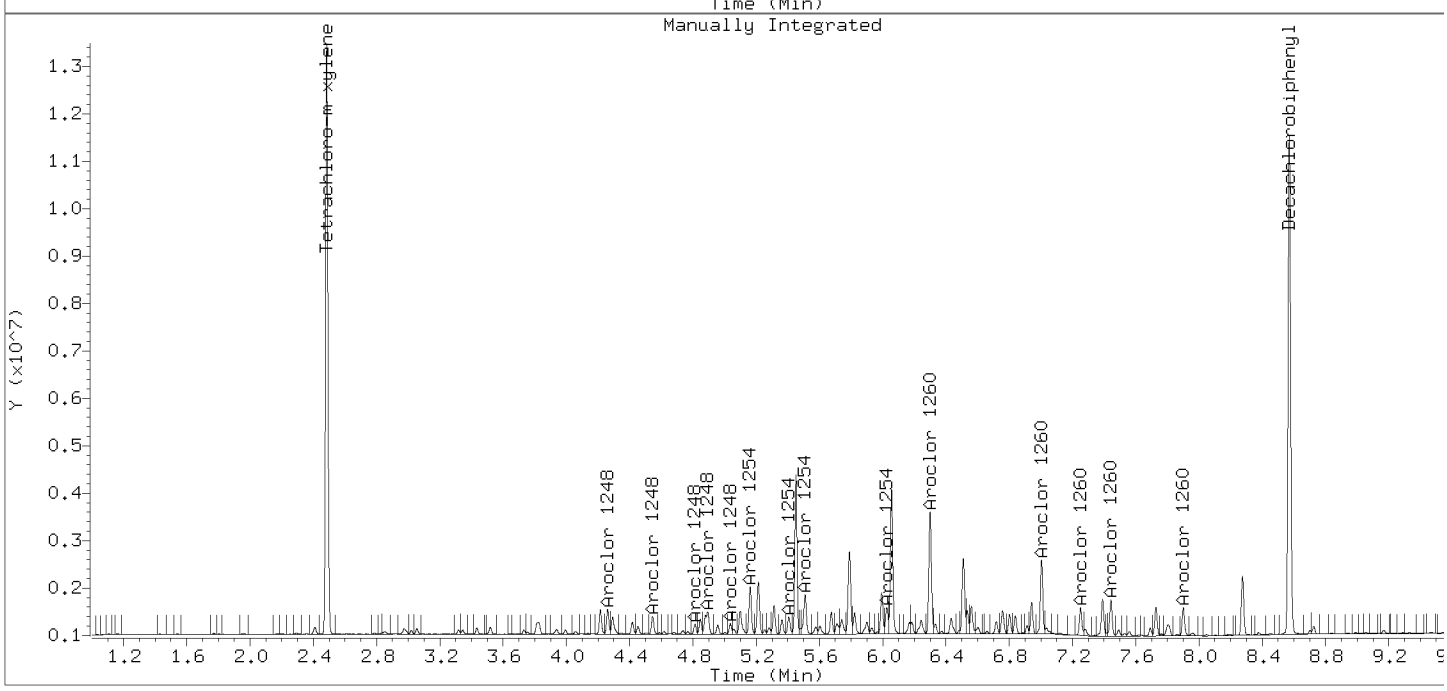
Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518021.D
Date : 15-MAR-2018 18:20
Client ID: AT1-170519-01-STB-1
Sample Info: 40150340011,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 18:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	96034	0	
Aroclor 1016	96034	0	
Aroclor 1016	96034	0	
Aroclor 1016	96034	0	
Aroclor 1016	96034	0	
Aroclor 1221	11103	0	
Aroclor 1221	11103	0	
Aroclor 1221	11103	0	
Aroclor 1221	11103	0	
Aroclor 1221	11103	0	
Aroclor 1232	79330	0	
Aroclor 1232	79330	0	
Aroclor 1232	79330	0	
Aroclor 1232	79330	0	

Aroclor 1232	79330	0	
Aroclor 1242	96034	0	
Aroclor 1242	96034	0	
Aroclor 1242	96034	0	
Aroclor 1242	96034	0	
Aroclor 1242	96034	0	
Aroclor 1248	533881	543152	BA
Aroclor 1248	533881	543152	BA
Aroclor 1248	533881	543152	BA
Aroclor 1248	533881	543152	BA
Aroclor 1248	533881	543152	BA
Aroclor 1254	1072515	1092295	BA
Aroclor 1254	1072515	1092295	BA
Aroclor 1254	1072515	1092295	BA
Aroclor 1254	1072515	1092295	BA
Aroclor 1254	1072515	1092295	BA
Aroclor 1260	2996849	3016306	CO
Aroclor 1260	2996849	3016306	CO
Aroclor 1260	2996849	3016306	CO
Aroclor 1260	2996849	3016306	CO
Aroclor 1260	2996849	3016306	CO
Tetrachloro-m-xylene	12550391	12550391	
Decachlorobiphenyl	11883388	11883388	

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SAMPLE NO.

AT1-170519-01-STB-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340012
Date Analyzed: 03/15/2018 18:51
Lab File ID: 031518.B\031518023.D
Initial wt/vol: 10.0011 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)	140	
11097-69-1	PCB-1254 (Aroclor 1254)	151	
11096-82-5	PCB-1260 (Aroclor 1260)	174	
1336-36-3	PCB, Total	465	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518023.D
Lab Smp Id: 40150340012 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 15-MAR-2018 18:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340012,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	10.001	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.031	29235	22554	0.771	0.02		
1.073	11448	9245	0.808	0.01		
1.136	11033	14803	1.342	0.01		
1.161	60983	52685	0.864	0.06		
1.204	16597	13569	0.818	0.01		
1.263	11574	7366	0.636	0.01		
1.425	14943	13855	0.927	0.01		
1.495	17184	15245	0.887	0.01		
1.550	28580	16532	0.578	0.02		
1.637	12353	15279	1.237	0.01		
1.768	72313	71216	0.985	0.07		
1.801	17868	18173	1.017	0.01		
1.922	9633	9938	1.032	0.00		
1.952	50563	41806	0.827	0.04		
2.062	30760	25948	0.844	0.03		
2.170	14034	15193	1.083	0.01		
2.291	19535	18785	0.962	0.01		
2.315	24114	26980	1.119	0.02		
2.359	29807	27678	0.929	0.02		
2.410	421959	376183	0.892	0.41		
2.484	12644898	12615417	0.998	13.20	$ 2 Tetrachloro-m-xylene	
2.602	13872	8510	0.613	0.01		
2.646	27381	23656	0.864	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.722	10289	12062	1.172	0.01	
2.786	46408	41880	0.902	0.04	
2.835	19291	32789	1.700	0.01	
2.851	98031	77185	0.787	0.09	
2.974	495279	282413	0.570	0.48	
3.018	185721	184151	0.992	0.18	
3.055	278361	217881	0.783	0.27	
3.133	22526	21530	0.956	0.02	
3.162	82046	34947	0.426	0.08	
3.217	34623	27145	0.784	0.03	
3.247	81704	50519	0.618	0.08	
3.317	297405	264837	0.890	0.29	
3.343	301265	256540	0.852	0.29	
3.401	31348	27902	0.890	0.03	
3.433	300159	236530	0.788	0.29	
3.519	370579	311814	0.841	0.36	
3.645	28963	23817	0.822	0.02	
3.731	179281	177874	0.992	0.17	
3.755	91266	88697	0.972	0.08	
3.825	996957	553158	0.555	0.98	
3.938	281133	203281	0.723	0.27	
3.993	190274	169747	0.892	0.18	
4.058	163847	116174	0.709	0.16	
4.089	20880	18772	0.899	0.02	
4.137	63987	53218	0.832	0.06	
4.214	1070416	974095	0.910	1.05	
4.261	1096840	1055866	0.963	1.08	6 Aroclor 1248
4.291	907622	720443	0.794	0.89	
4.347	92353	66538	0.720	0.09	
4.417	464365	419129	0.903	0.45	
4.452	296355	290282	0.980	0.29	
4.506	32858	29870	0.909	0.03	
4.545	766158	737474	0.963	0.75	6 Aroclor 1248
4.588	42027	46648	1.110	0.04	
4.617	132618	127367	0.960	0.13	
4.656	24369	27705	1.137	0.02	
4.681	81113	71941	0.887	0.07	
4.737	164080	133901	0.816	0.16	
4.768	117409	111888	0.953	0.11	
4.812	481851	458980	0.953	0.47	6 Aroclor 1248
4.847	655936	647728	0.987	0.64	
4.894	1876777	1029167	0.548	1.84	6 Aroclor 1248
4.937	36620	56524	1.544	0.03	
4.956	428551	380886	0.889	0.42	
5.004	74006	75313	1.018	0.07	
5.036	486170	463662	0.954	0.47	6 Aroclor 1248
5.057	134324	142352	1.060	0.13	
5.099	1215380	967692	0.796	1.19	
5.162	2243875	1980752	0.883	2.21	7 Aroclor 1254
5.213	2428461	2160985	0.890	2.39	
5.254	114733	115199	1.004	0.11	
5.283	262328	238510	0.909	0.25	
5.313	904510	879831	0.973	0.89	
5.362	654927	608232	0.929	0.64	
5.407	816455	764729	0.937	0.80	7 Aroclor 1254
5.451	4990872	4899401	0.982	4.91	
5.478	127803	210693	1.649	0.12	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.509	2161805	1775242	0.821	2.12	7 Aroclor 1254
5.576	286519	222515	0.777	0.28	
5.603	301524	240878	0.799	0.29	
5.674	931770	883227	0.948	0.91	
5.709	530309	407528	0.768	0.52	
5.741	839850	622465	0.741	0.82	
5.789	4626463	3910016	0.845	4.55	
5.821	829816	782491	0.943	0.81	
5.899	613299	391103	0.638	0.60	
5.931	247711	212732	0.859	0.24	
5.963	83012	87031	1.048	0.08	
5.992	1595978	1468582	0.920	1.57	
6.024	1499470	1302215	0.868	1.47	7 Aroclor 1254
6.055	6197608	5404641	0.872	6.10	
6.169	677972	504942	0.745	0.66	
6.183	370409	390810	1.055	0.36	
6.242	855859	526898	0.616	0.84	
6.299	5978947	5217560	0.873	5.89	8 Aroclor 1260
6.332	523373	499055	0.954	0.51	
6.373	117161	106421	0.908	0.11	
6.432	699517	468048	0.669	0.68	
6.484	111085	105172	0.947	0.10	
6.510	2525764	2328884	0.922	2.48	
6.534	1103245	1053661	0.955	1.08	
6.560	926236	838689	0.905	0.91	
6.602	352568	249569	0.708	0.34	
6.660	88395	90655	1.026	0.08	
6.719	527979	471289	0.893	0.52	
6.758	840124	767276	0.913	0.82	
6.802	835300	801824	0.960	0.82	
6.839	459865	406620	0.884	0.45	
6.887	44233	48951	1.107	0.04	
6.912	141663	148350	1.047	0.13	
6.941	909918	881166	0.968	0.89	
7.004	2610265	2365643	0.906	2.57	8 Aroclor 1260
7.035	181149	181011	0.999	0.17	
7.055	142361	109018	0.766	0.14	
7.122	68703	51224	0.746	0.06	
7.250	1033561	937586	0.907	1.01	8 Aroclor 1260
7.281	291363	237956	0.817	0.28	
7.347	47547	25294	0.532	0.04	
7.389	783618	736827	0.940	0.77	
7.419	179100	211530	1.181	0.17	
7.441	896769	780618	0.870	0.88	8 Aroclor 1260
7.494	113183	71473	0.631	0.11	
7.526	42316	42088	0.995	0.04	
7.559	244427	167334	0.685	0.24	
7.623	37780	27107	0.718	0.03	
7.666	6697	11586	1.730	0.00	
7.691	175948	162215	0.922	0.17	
7.727	337630	289071	0.856	0.33	
7.762	74869	60596	0.809	0.07	
7.812	277621	178981	0.645	0.27	
7.862	46430	29838	0.643	0.04	
7.900	752813	656373	0.872	0.74	8 Aroclor 1260
7.960	140402	72204	0.514	0.13	
8.018	11840	9715	0.821	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.048	53467	49413	0.924	0.05	
8.151	17009	12006	0.706	0.01	
8.197	24253	22472	0.927	0.02	
8.275	730418	669302	0.916	0.71	
8.376	70783	59020	0.834	0.06	
8.452	32335	25465	0.788	0.03	
8.570	11406024	10205301	0.895	11.23	$ 12 Decachlorobiphenyl
8.673	12611	12462	0.988	0.01	
8.725	81964	56683	0.692	0.08	
8.993	14759	12007	0.814	0.01	
9.053	13728	14718	1.072	0.01	
9.168	74728	68782	0.920	0.07	
9.329	16207	8576	0.529	0.01	
9.487	50657	31511	0.622	0.04	
9.698	19232	17786	0.925	0.01	
9.735	25778	16384	0.636	0.02	
9.774	12736	9256	0.727	0.01	
9.956	31370	15045	0.480	0.03	
	101503650	90177245		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518023.D
Lab Smp Id: 40150340012 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 15-MAR-2018 18:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340012,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	10.001	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.483	2.484	-0.001	12644897	0.10256	51			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1096840	0.46814	230	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	766158	0.18460	92	0.00- 20.00	69.85	BA
4.811	4.812	-0.001	481850	0.23736	120	0.00- 20.00	43.93	BA
4.893	4.879	0.014	1876777	0.37257	190	0.00- 20.00	171.11	BA
5.035	5.038	-0.003	486169	0.13548	68	0.00- 20.00	44.32	BA
Average of Peak Concentrations =					140			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2243874	0.42861	210	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	816455	0.18983	95	0.00- 20.00	36.39	BA
5.508	5.510	-0.002	2161805	0.27837	140	0.00- 20.00	96.34	BA
6.023	6.027	-0.004	1499469	0.30792	150	0.00- 20.00	66.83	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					150			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	5978946	0.67465	340	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	2610265	0.26065	130	0.00- 20.00	43.66	BA
7.250	7.251	-0.001	1033560	0.21623	110	0.00- 20.00	17.29	BA
7.441	7.443	-0.002	896768	0.30763	150	0.00- 20.00	15.00	BA
7.899	7.901	-0.002	752813	0.28529	140	0.00- 20.00	12.59	BA
Average of Peak Concentrations =					170			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	11406023	0.10411	52			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518023.D

Date : 15-MAR-2018 18:51

Client ID: AT1-170519-01-STB-0

Instrument: 40GCSJ.i

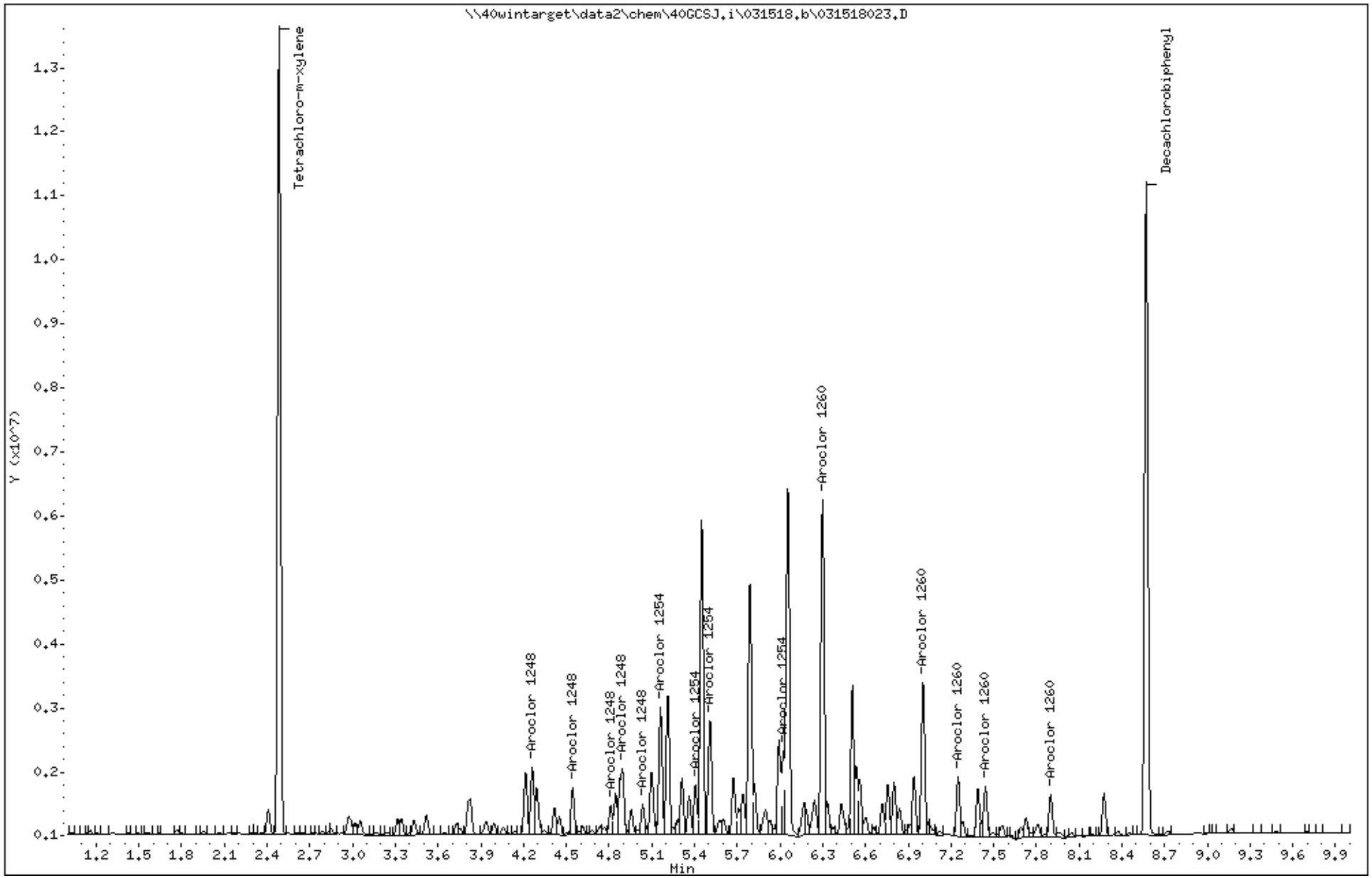
Sample Info: 40150340012,

Volume Injected (uL): 1.0

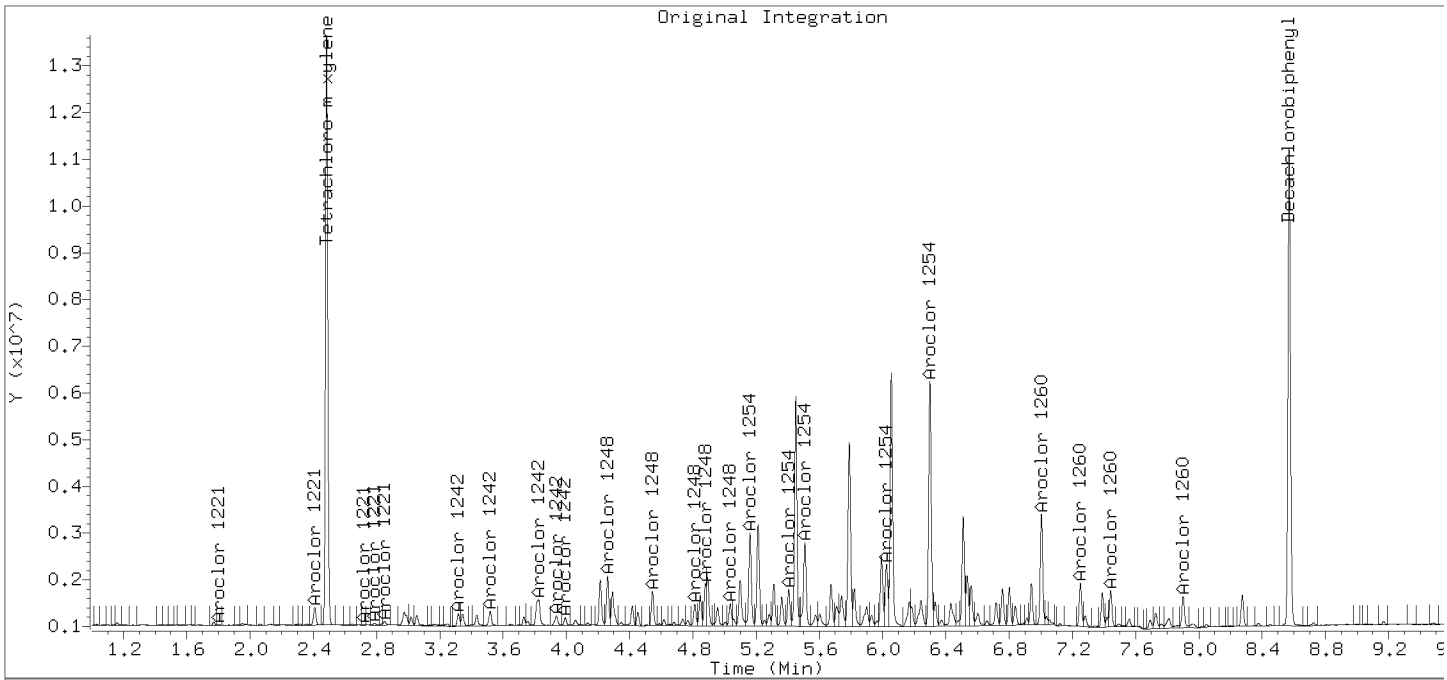
Operator: BLM

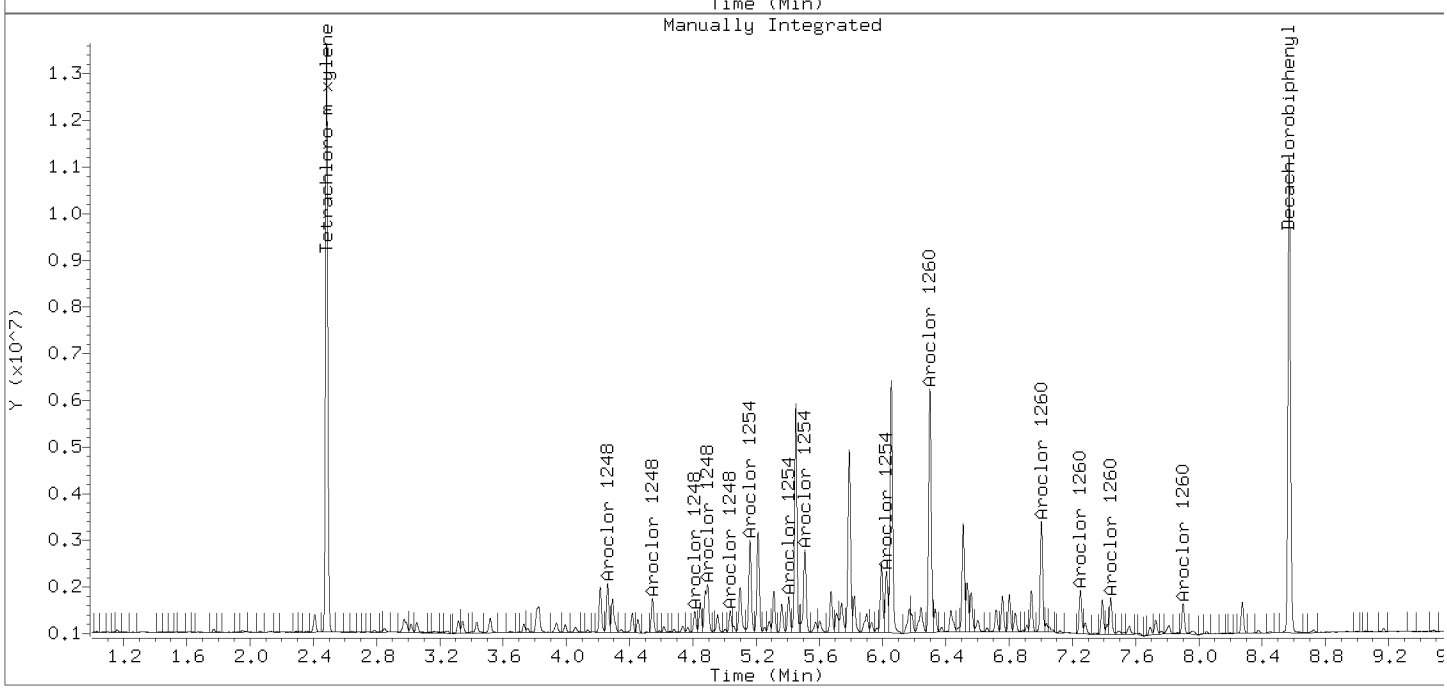
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 18:51 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340012





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	297405	0	
Aroclor 1016	297405	0	
Aroclor 1016	297405	0	
Aroclor 1016	297405	0	
Aroclor 1016	297405	0	
Aroclor 1221	17868	0	
Aroclor 1221	17868	0	
Aroclor 1221	17868	0	
Aroclor 1221	17868	0	
Aroclor 1221	17868	0	
Aroclor 1232	98030	0	
Aroclor 1232	98030	0	
Aroclor 1232	98030	0	
Aroclor 1232	98030	0	

Aroclor 1232	98030	0	
Aroclor 1242	297405	0	
Aroclor 1242	297405	0	
Aroclor 1242	297405	0	
Aroclor 1242	297405	0	
Aroclor 1242	297405	0	
Aroclor 1248	1081462	1096840	BA
Aroclor 1248	1081462	1096840	BA
Aroclor 1248	1081462	1096840	BA
Aroclor 1248	1081462	1096840	BA
Aroclor 1248	1081462	1096840	BA
Aroclor 1254	2289415	2243874	BA
Aroclor 1254	2289415	2243874	BA
Aroclor 1254	2289415	2243874	BA
Aroclor 1254	2289415	2243874	BA
Aroclor 1254	2289415	2243874	BA
Aroclor 1260	6065753	5978946	BA
Aroclor 1260	6065753	5978946	BA
Aroclor 1260	6065753	5978946	BA
Aroclor 1260	6065753	5978946	BA
Aroclor 1260	6065753	5978946	BA
Tetrachloro-m-xylene	12644897	12644897	
Decachlorobiphenyl	11406023	11406023	

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SAMPLE NO.

AT1-170519-01-STB-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340013
Date Analyzed: 03/20/2018 16:13
Lab File ID: 032018.B\032018015.D
Initial wt/vol: 10.0085 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	329	
11097-69-1	PCB-1254 (Aroclor 1254)	411	
11096-82-5	PCB-1260 (Aroclor 1260)	228	
1336-36-3	PCB, Total	968	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018015.D
Lab Smp Id: 40150340013 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 20-MAR-2018 16:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340013 x2,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.009	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.028	12535	9364	0.747	0.01		
1.187	13786	12919	0.937	0.01		
1.683	18275	13472	0.737	0.02		
1.771	14320	13891	0.970	0.01		
2.410	101708	80060	0.787	0.13		
2.485	5196493	4980914	0.959	7.50	$ 2 Tetrachloro-m-xylene	
2.788	20332	17701	0.871	0.02		
2.852	42120	31668	0.752	0.05		
2.974	78435	50747	0.647	0.10		
3.019	34649	33381	0.963	0.04		
3.054	85484	81876	0.958	0.11		
3.317	123315	119175	0.966	0.16		
3.344	138892	132091	0.951	0.18		
3.434	117200	116620	0.995	0.15		
3.519	186830	161561	0.865	0.24		
3.647	18891	16566	0.877	0.02		
3.733	143945	136767	0.950	0.19		
3.756	79047	67349	0.852	0.10		
3.827	709710	403052	0.568	0.94		
3.938	219416	176652	0.805	0.29		
3.994	151291	137932	0.912	0.20		
4.058	114251	88354	0.773	0.15		
4.136	43078	38301	0.889	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.215	1290652	1203694	0.933	1.71	
4.261	1376613	1279066	0.929	1.83	6 Aroclor 1248
4.293	1371481	1126217	0.821	1.82	
4.348	34363	24649	0.717	0.04	
4.418	606903	571975	0.942	0.80	
4.453	419977	379270	0.903	0.55	
4.545	1025279	963199	0.939	1.36	6 Aroclor 1248
4.590	73500	69933	0.951	0.09	
4.616	159454	134741	0.845	0.21	
4.681	105790	97419	0.921	0.14	
4.737	175316	148359	0.846	0.23	
4.768	135261	122201	0.903	0.17	
4.813	508784	482732	0.949	0.67	6 Aroclor 1248
4.848	627522	600489	0.957	0.83	
4.894	2255942	1375699	0.610	3.00	6 Aroclor 1248
4.957	598471	526130	0.879	0.79	
5.005	47914	45622	0.952	0.06	
5.036	415741	391876	0.943	0.55	6 Aroclor 1248
5.057	100709	109189	1.084	0.13	
5.100	1316212	1113056	0.846	1.75	
5.161	2477087	2175398	0.878	3.29	7 Aroclor 1254
5.213	2204661	1951764	0.885	2.93	
5.253	71086	66716	0.939	0.09	
5.284	253945	239599	0.944	0.33	
5.312	756980	697100	0.921	1.00	
5.363	734623	676193	0.920	0.97	
5.406	1124724	1006715	0.895	1.49	7 Aroclor 1254
5.451	3497038	3384715	0.968	4.65	
5.478	252710	262192	1.038	0.33	
5.510	2644658	2272444	0.859	3.51	7 Aroclor 1254
5.576	212481	189643	0.893	0.28	
5.603	280142	227470	0.812	0.37	
5.675	884691	837381	0.947	1.17	
5.709	554908	385798	0.695	0.73	
5.742	624987	457391	0.732	0.83	
5.790	3782755	3119123	0.825	5.03	
5.821	593806	542627	0.914	0.78	
5.899	518990	286042	0.551	0.69	
5.931	225102	192646	0.856	0.29	
5.964	36554	37809	1.034	0.04	
5.994	1060288	1026151	0.968	1.41	
6.026	1337300	1190160	0.890	1.77	7 Aroclor 1254
6.055	4301972	3766346	0.875	5.72	
6.169	947742	561024	0.592	1.26	
6.226	182023	246806	1.356	0.24	
6.242	485099	343438	0.708	0.64	
6.298	4597189	3769418	0.820	6.11	7 Aroclor 1254
6.334	505800	449671	0.889	0.67	
6.372	153909	134679	0.875	0.20	
6.433	476162	327517	0.688	0.63	
6.483	78772	76343	0.969	0.10	
6.509	1829324	1620093	0.886	2.43	
6.535	900574	832167	0.924	1.19	
6.560	753831	673364	0.893	1.00	
6.604	186224	146793	0.788	0.24	
6.661	105790	103169	0.975	0.14	
6.718	469424	422778	0.901	0.62	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.759	502634	432894	0.861	0.66	
6.802	652158	603866	0.926	0.86	
6.839	312642	262159	0.839	0.41	
6.886	35840	35509	0.991	0.04	
6.913	93949	93882	0.999	0.12	
6.942	727014	693428	0.954	0.96	
7.005	2258198	1981682	0.878	3.00	8 Aroclor 1260
7.034	148535	155789	1.049	0.19	
7.053	131550	96949	0.737	0.17	
7.100	9750	12634	1.296	0.01	
7.122	27929	27026	0.968	0.03	
7.252	912359	805713	0.883	1.21	8 Aroclor 1260
7.280	250889	210665	0.840	0.33	
7.341	21321	16390	0.769	0.02	
7.389	749486	623919	0.832	0.99	
7.442	836112	732882	0.877	1.11	8 Aroclor 1260
7.495	66046	39190	0.593	0.08	
7.526	20979	19847	0.946	0.02	
7.556	74326	45731	0.615	0.09	
7.690	208192	182302	0.876	0.27	
7.727	194902	168622	0.865	0.25	
7.762	46487	42481	0.914	0.06	
7.812	222002	143547	0.647	0.29	
7.865	16411	15835	0.965	0.02	
7.899	547795	488876	0.892	0.72	8 Aroclor 1260
7.962	79355	47587	0.600	0.10	
8.050	9972	9821	0.985	0.01	
8.274	477469	435196	0.911	0.63	
8.375	41430	28460	0.687	0.05	
8.449	16467	14260	0.866	0.02	
8.570	4885011	4188010	0.857	6.49	$ 12 Decachlorobiphenyl
8.702	14795	14405	0.974	0.01	
8.726	72384	56942	0.787	0.09	
9.055	13772	12344	0.896	0.01	
9.169	82387	65573	0.796	0.10	
9.732	13193	11649	0.883	0.01	
	75186979	65200677		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018015.D
Lab Smp Id: 40150340013 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 20-MAR-2018 16:13
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340013 x2,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.009	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5196493	0.04215	42			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1376612	0.58755	590	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	1025278	0.24704	250	0.00- 20.00	74.48	CO
4.812	4.812	0.000	508784	0.25062	250	0.00- 20.00	36.96	CO
4.894	4.879	0.015	2255941	0.44783	450	0.00- 20.00	163.88	CO
5.036	5.038	-0.002	415741	0.11585	120	0.00- 20.00	30.20	CO
Average of Peak Concentrations =					330			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	2477086	0.47316	470	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1124723	0.26150	260	0.00- 20.00	45.41	BA
5.510	5.510	0.000	2644657	0.34054	340	0.00- 20.00	106.76	BA
6.026	6.027	-0.001	1337300	0.27462	270	0.00- 20.00	53.99	BA
6.298	6.299	-0.001	4597189	0.70649	700	0.00- 20.00	185.59	BA
Average of Peak Concentrations =					410			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.004	7.006	-0.002	2258198	0.22550	220	0.00- 20.00	52.29	CO
7.251	7.251	0.000	912358	0.19088	190	0.00- 20.00	19.85	CO
7.442	7.443	-0.001	836111	0.28682	290	0.00- 20.00	18.19	CO
7.898	7.901	-0.003	547795	0.20760	210	0.00- 20.00	11.92	CO
Average of Peak Concentrations =					230			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	4885010	0.04459	44			

QC Flag Legend

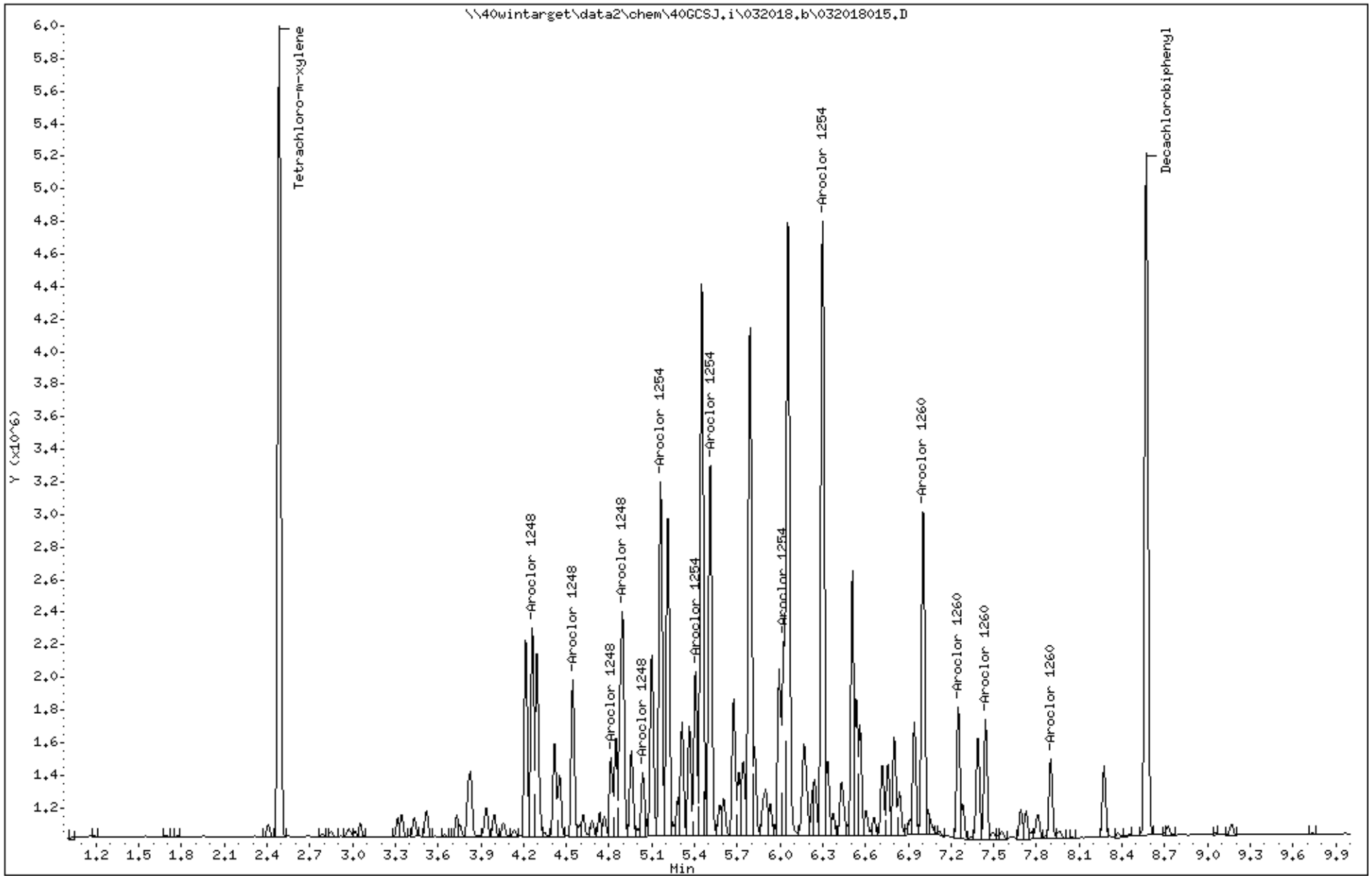
M - Compound response manually integrated.

Review Codes Legend

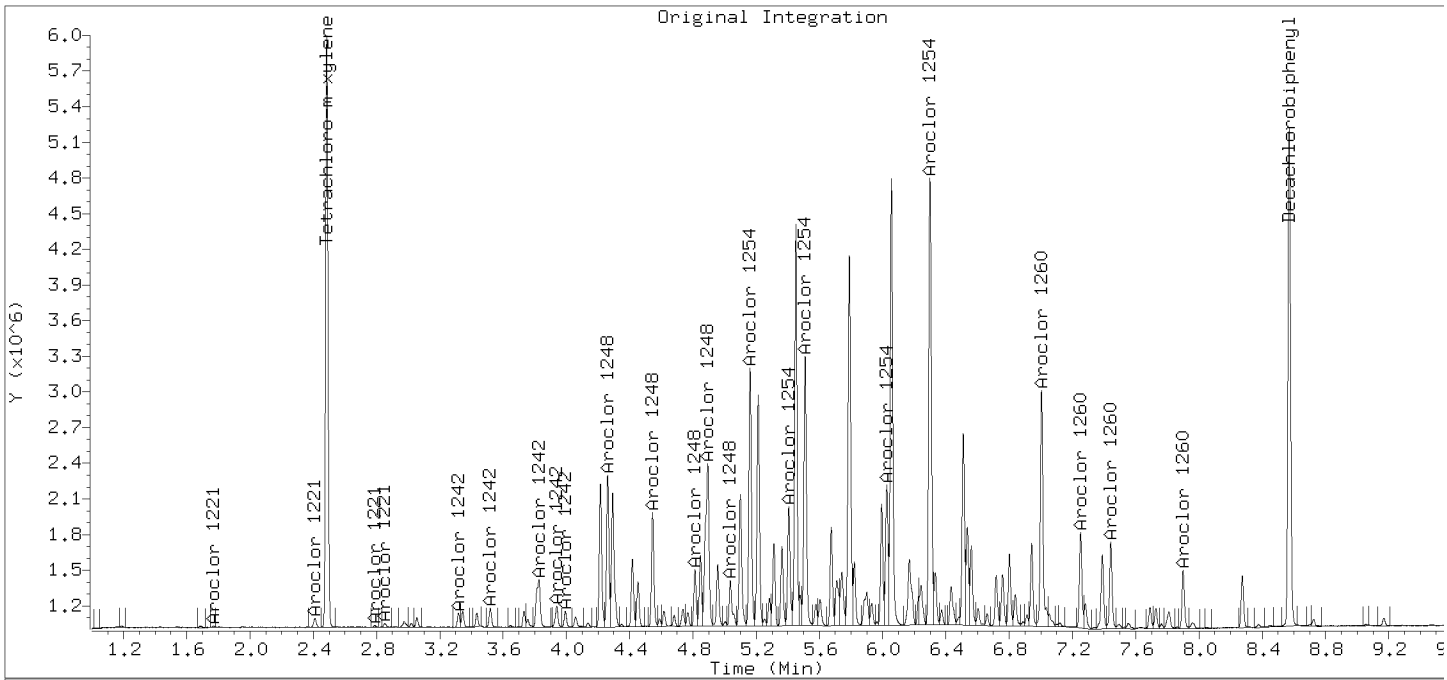
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

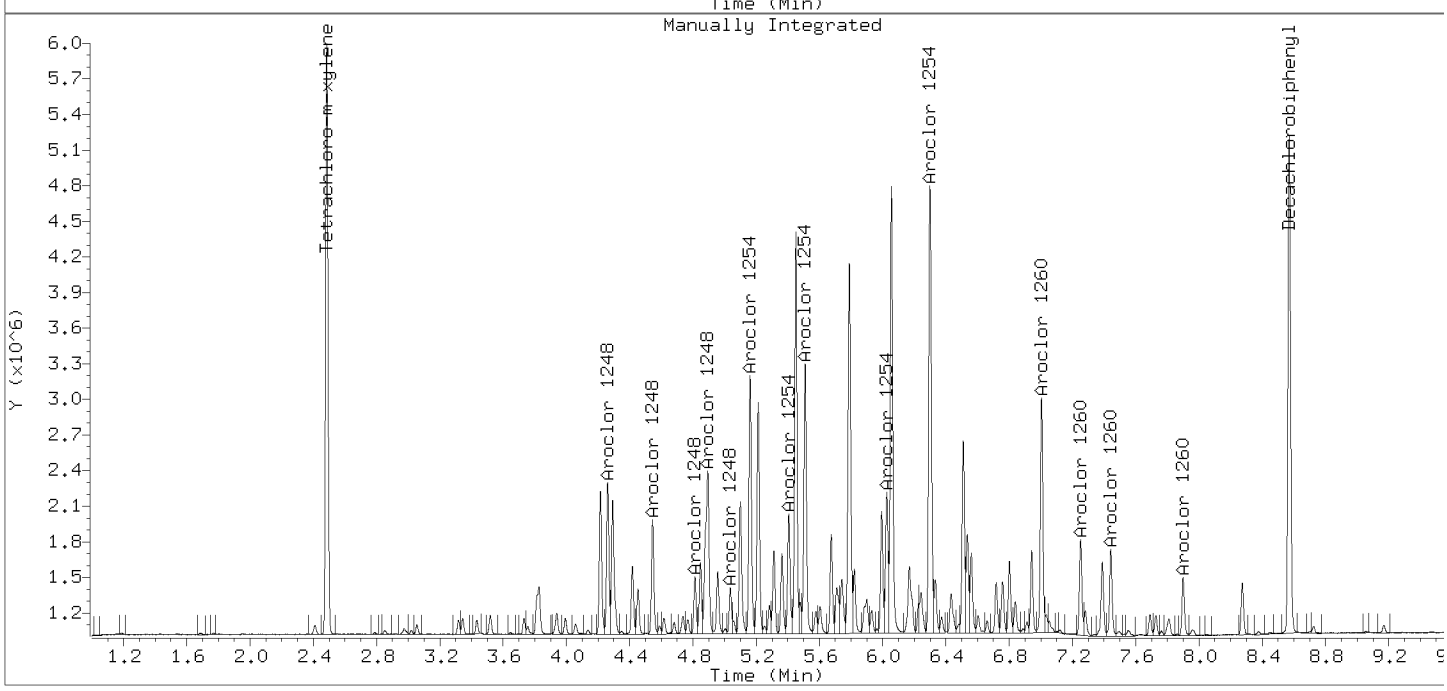
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018015.D
Date : 20-MAR-2018 16:13
Client ID: AT1-170519-01-STB-0
Sample Info: 40150340013 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 16:13 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340013





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	123314	0	
Aroclor 1016	123314	0	
Aroclor 1016	123314	0	
Aroclor 1016	123314	0	
Aroclor 1016	123314	0	
Aroclor 1221	14319	0	
Aroclor 1221	14319	0	
Aroclor 1221	14319	0	
Aroclor 1221	14319	0	
Aroclor 1221	14319	0	
Aroclor 1232	42120	0	
Aroclor 1232	42120	0	
Aroclor 1232	42120	0	
Aroclor 1232	42120	0	

Aroclor 1232	42120	0	
Aroclor 1242	123314	0	
Aroclor 1242	123314	0	
Aroclor 1242	123314	0	
Aroclor 1242	123314	0	
Aroclor 1242	123314	0	
Aroclor 1248	1371491	1376612	CO
Aroclor 1248	1371491	1376612	CO
Aroclor 1248	1371491	1376612	CO
Aroclor 1248	1371491	1376612	CO
Aroclor 1248	1371491	1376612	CO
Aroclor 1254	2454082	2477086	BA
Aroclor 1254	2454082	2477086	BA
Aroclor 1254	2454082	2477086	BA
Aroclor 1254	2454082	2477086	BA
Aroclor 1254	2454082	2477086	BA
Aroclor 1260	4565052	0	CO
Aroclor 1260	4565052	0	CO
Aroclor 1260	4565052	0	CO
Aroclor 1260	4565052	0	CO
Aroclor 1260	4565052	0	CO
Tetrachloro-m-xylene	5196493	5196493	
Decachlorobiphenyl	4885010	4885010	

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SAMPLE NO.

AT1-170519-01-STB-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 05/20/2017 09:45

Matrix: Tissue SDG No.: 40150340

Date Extracted: 03/14/2018 12:55

Lab Sample ID: 40150340014

Date Analyzed: 03/20/2018 17:01

Lab File ID: 032018.B\032018018.D

Initial wt/vol: 9.994 g Final wt/vol: 5 mL Dilution: 10

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	<114	U
11141-16-5	PCB-1232 (Aroclor 1232)	<114	U
53469-21-9	PCB-1242 (Aroclor 1242)	<114	U
12672-29-6	PCB-1248 (Aroclor 1248)	1600	
11097-69-1	PCB-1254 (Aroclor 1254)	983	
11096-82-5	PCB-1260 (Aroclor 1260)	475	J
1336-36-3	PCB, Total	3060	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018018.D
Lab Smp Id: 40150340014 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 20-MAR-2018 17:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340014 x10,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.994	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.179	9447	7137	0.756	0.02		
2.410	62146	49480	0.796	0.15		
2.484	1257333	1209914	0.962	3.09	$ 2 Tetrachloro-m-xylene	
2.792	25964	19023	0.733	0.06		
2.852	56789	47654	0.839	0.13		
2.975	47673	30356	0.637	0.11		
3.020	31620	30606	0.968	0.07		
3.055	95580	87744	0.918	0.23		
3.317	237954	231714	0.974	0.58		
3.345	339204	317886	0.937	0.83		
3.433	256867	238168	0.927	0.63		
3.519	360113	315915	0.877	0.88		
3.647	36505	28930	0.793	0.08		
3.732	336652	330251	0.981	0.82		
3.756	154520	149120	0.965	0.38		
3.815	1219971	722827	0.592	3.00		
3.938	331796	266636	0.804	0.81		
3.993	232339	207042	0.891	0.57		
4.059	132972	119095	0.896	0.32		
4.137	55298	50052	0.905	0.13		
4.215	1426284	1311602	0.920	3.50		
4.261	1721756	1615747	0.938	4.23	6 Aroclor 1248	CO
4.292	1594249	1308580	0.821	3.92		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.346	27000	20829	0.771	0.06	
4.417	595381	574880	0.966	1.46	
4.452	447251	396947	0.888	1.09	
4.545	1178495	1070545	0.908	2.89	6 Aroclor 1248
4.589	92866	86026	0.926	0.22	
4.618	192230	168593	0.877	0.47	
4.680	106709	97743	0.916	0.26	
4.736	138816	113281	0.816	0.34	
4.768	159711	149184	0.934	0.39	
4.813	400259	389587	0.973	0.98	6 Aroclor 1248
4.848	477507	449480	0.941	1.17	
4.895	1498503	930390	0.621	3.68	6 Aroclor 1248
4.958	479087	420787	0.878	1.17	
5.038	300582	278875	0.928	0.73	6 Aroclor 1248
5.055	34501	48070	1.393	0.08	
5.101	907703	776151	0.855	2.23	
5.161	1251608	1082268	0.865	3.07	7 Aroclor 1254
5.212	1043386	916799	0.879	2.56	
5.284	146323	137375	0.939	0.35	
5.311	304470	259338	0.852	0.74	
5.362	358937	321709	0.896	0.88	
5.407	596539	544419	0.913	1.46	7 Aroclor 1254
5.451	1467603	1348826	0.919	3.60	
5.477	161105	158152	0.982	0.39	
5.510	1454548	1265379	0.870	3.57	7 Aroclor 1254
5.577	123362	108658	0.881	0.30	
5.604	151026	121150	0.802	0.37	
5.675	493646	454627	0.921	1.21	
5.710	296654	230359	0.777	0.72	
5.742	304630	232977	0.765	0.74	
5.789	1614039	1272674	0.789	3.96	
5.821	124868	139678	1.119	0.30	
5.884	214504	128826	0.601	0.52	
5.932	139043	126214	0.908	0.34	
5.994	520229	473828	0.911	1.27	
6.027	547163	486240	0.889	1.34	7 Aroclor 1254
6.056	1786681	1503333	0.841	4.39	
6.169	394324	244263	0.619	0.96	
6.229	101891	111181	1.091	0.25	
6.244	193243	145727	0.754	0.47	
6.300	1983633	1612496	0.813	5.41	7 Aroclor 1254
6.332	203308	179180	0.881	0.50	
6.372	73751	61905	0.839	0.18	
6.433	216958	179538	0.828	0.53	
6.509	797085	710247	0.891	1.96	
6.535	339939	312601	0.920	0.83	
6.561	293914	251047	0.854	0.72	
6.605	58363	55262	0.947	0.14	
6.661	51029	46386	0.909	0.12	
6.718	222922	199521	0.895	0.54	
6.757	214440	182086	0.849	0.52	
6.802	253524	220990	0.872	0.62	
6.839	133235	105736	0.794	0.32	
6.914	32280	35522	1.100	0.07	
6.942	452701	417802	0.923	1.11	
7.004	938409	847497	0.903	2.30	8 Aroclor 1260
7.034	63286	69901	1.105	0.15	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.122	22310	17226	0.772	0.05	
7.251	371804	333259	0.896	0.91	8 Aroclor 1260
7.283	113998	92884	0.815	0.28	
7.389	325959	276674	0.849	0.80	
7.442	351411	311856	0.887	0.86	8 Aroclor 1260
7.492	22810	14881	0.652	0.05	
7.553	28168	19399	0.689	0.06	
7.690	73656	71910	0.976	0.18	
7.728	88435	76546	0.866	0.21	
7.762	21086	15906	0.754	0.05	
7.813	133561	97587	0.731	0.32	
7.864	10975	11906	1.085	0.02	
7.901	232026	191231	0.824	0.57	8 Aroclor 1260
7.959	34080	21954	0.644	0.08	
8.275	215405	184004	0.854	0.52	
8.374	10833	10426	0.962	0.02	
8.570	1332909	1157715	0.869	3.27	$ 12 Decachlorobiphenyl
8.724	36912	32064	0.869	0.09	
9.170	43578	35445	0.813	0.10	
9.734	11719	7982	0.681	0.02	
	40659868	34949419		100.000	

Total unknown % area = 62

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018018.D
Lab Smp Id: 40150340014 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 20-MAR-2018 17:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340014 x10,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.994	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.484	2.484	0.000	1257332	0.01020	51			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1721756	0.73486	3700	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	1178494	0.28395	1400	0.00- 20.00	68.45	CO
4.813	4.812	0.001	400259	0.19716	990	0.00- 20.00	23.25	CO
4.894	4.879	0.015	1498503	0.29747	1500	0.00- 20.00	87.03	CO
5.037	5.038	-0.001	300581	0.08376	420	0.00- 20.00	17.46	CO
Average of Peak Concentrations =					1600			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1251608	0.23907	1200	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	596538	0.13870	690	0.00- 20.00	47.66	BA
5.509	5.510	-0.001	1454547	0.18730	940	0.00- 20.00	116.21	BA
6.026	6.027	-0.001	547163	0.11236	560	0.00- 20.00	43.72	BA
6.300	6.299	0.001	1983632	0.30484	1500	0.00- 20.00	158.49	BA
Average of Peak Concentrations =					980			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.004	7.006	-0.002	938408	0.09371	470	0.00- 20.00	50.44	CO
7.251	7.251	0.000	371804	0.07779	390	0.00- 20.00	18.74	CO
7.442	7.443	-0.001	351410	0.12055	600	0.00- 20.00	17.72	CO
7.901	7.901	0.000	232025	0.08793	440	0.00- 20.00	11.70	CO
Average of Peak Concentrations =					480			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	1332909	0.01217	61			

QC Flag Legend

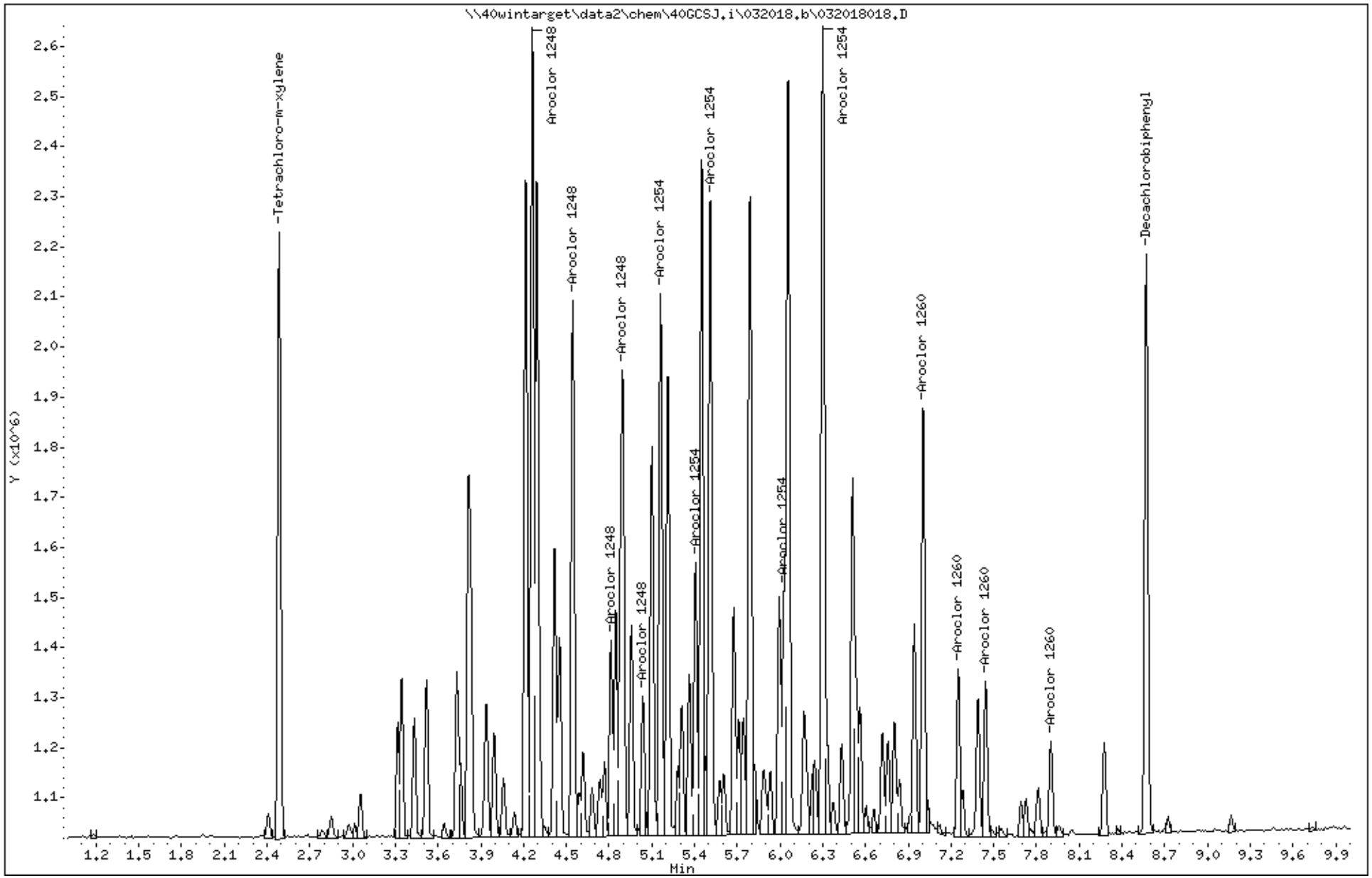
M - Compound response manually integrated.

Review Codes Legend

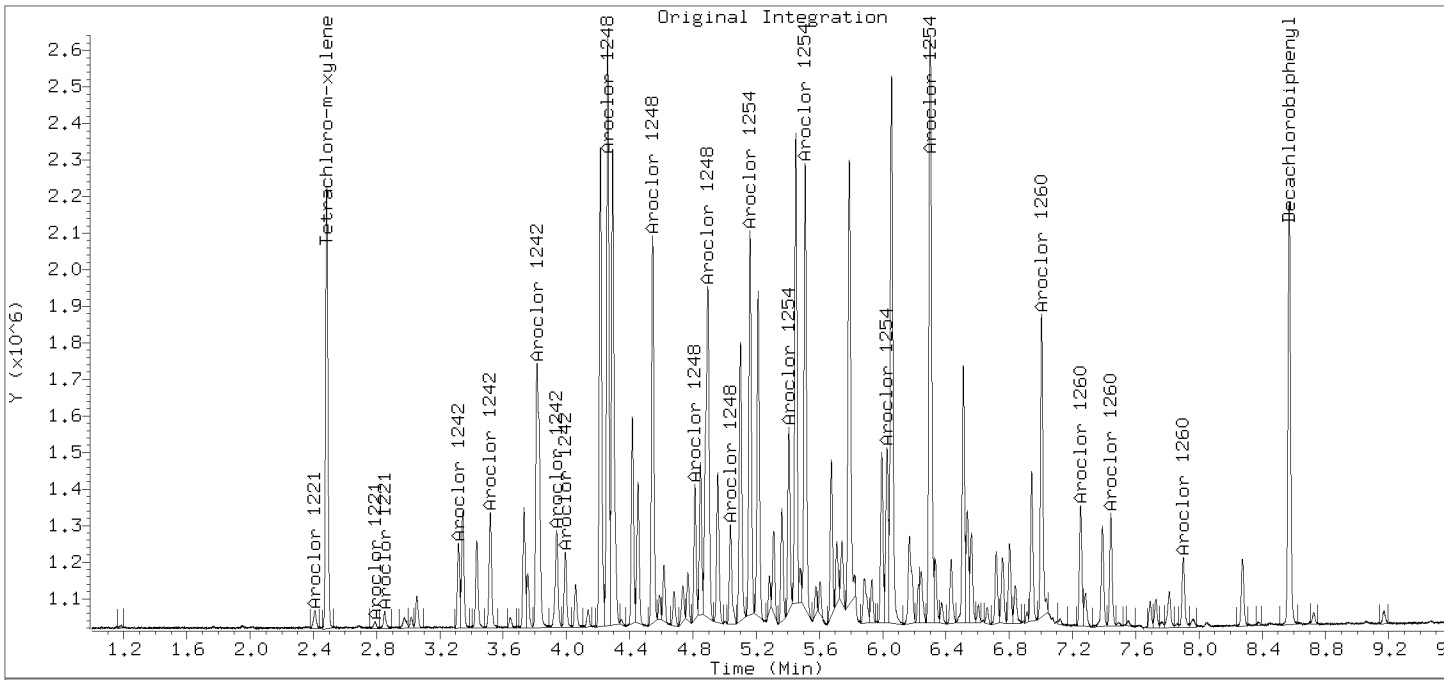
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

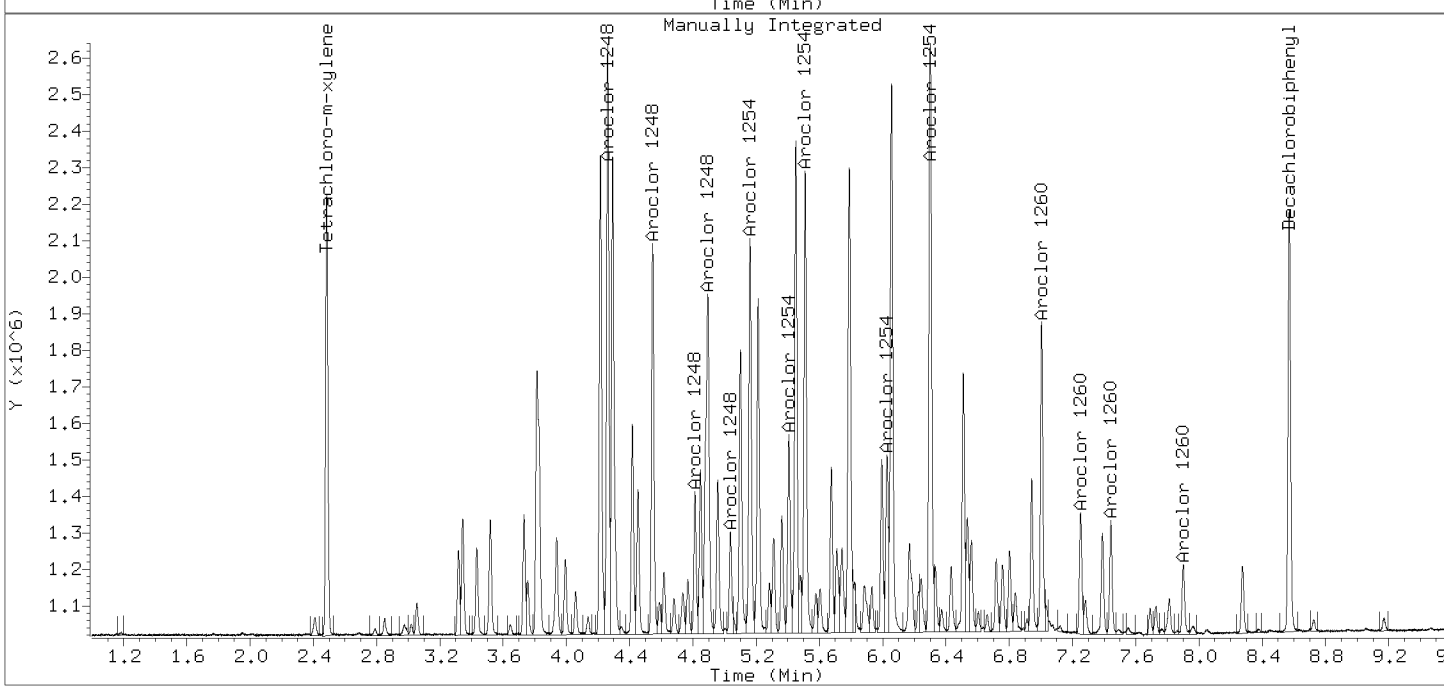
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018018.D
Date : 20-MAR-2018 17:01
Client ID: AT1-170519-01-STB-0
Sample Info: 40150340014 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 17:01 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	237953	0	
Aroclor 1016	237953	0	
Aroclor 1016	237953	0	
Aroclor 1016	237953	0	
Aroclor 1016	237953	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	56789	0	
Aroclor 1232	56789	0	
Aroclor 1232	56789	0	
Aroclor 1232	56789	0	

Aroclor 1232	56789	0	
Aroclor 1242	237953	0	
Aroclor 1242	237953	0	
Aroclor 1242	237953	0	
Aroclor 1242	237953	0	
Aroclor 1242	237953	0	
Aroclor 1248	1709317	1721756	CO
Aroclor 1248	1709317	1721756	CO
Aroclor 1248	1709317	1721756	CO
Aroclor 1248	1709317	1721756	CO
Aroclor 1248	1709317	1721756	CO
Aroclor 1254	1154389	1251608	BA
Aroclor 1254	1154389	1251608	BA
Aroclor 1254	1154389	1251608	BA
Aroclor 1254	1154389	1251608	BA
Aroclor 1254	1154389	1251608	BA
Aroclor 1260	1964611	0	CO
Aroclor 1260	1964611	0	CO
Aroclor 1260	1964611	0	CO
Aroclor 1260	1964611	0	CO
Aroclor 1260	1964611	0	CO
Tetrachloro-m-xylene	1257332	1257332	
Decachlorobiphenyl	1332909	1332909	

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SAMPLE NO.

AT1-170519-01-STB-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340015
Date Analyzed: 03/20/2018 17:17
Lab File ID: 032018.B\032018019.D
Initial wt/vol: 10.0171 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	158	
11097-69-1	PCB-1254 (Aroclor 1254)	246	
11096-82-5	PCB-1260 (Aroclor 1260)	121	
1336-36-3	PCB, Total	524	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018019.D
Lab Smp Id: 40150340015 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 20-MAR-2018 17:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340015 x2,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.017	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.155	9589	7839	0.817	0.01		
1.185	37628	26157	0.695	0.07		
1.685	13330	13586	1.019	0.02		
1.767	14958	14986	1.002	0.02		
1.956	10361	7883	0.761	0.02		
2.010	19077	13774	0.722	0.03		
2.409	64829	50063	0.772	0.12		
2.485	5259569	5064970	0.963	10.87	$ 2 Tetrachloro-m-xylene	
2.786	18198	14521	0.798	0.03		
2.975	86222	61244	0.710	0.16		
3.020	43598	40700	0.934	0.08		
3.054	65437	47440	0.725	0.12		
3.318	47005	45666	0.972	0.09		
3.344	52936	49632	0.938	0.10		
3.434	68073	58499	0.859	0.13		
3.519	85718	75741	0.884	0.16		
3.644	11861	9918	0.836	0.02		
3.732	65694	64321	0.979	0.12		
3.756	31480	29957	0.952	0.06		
3.826	295218	169264	0.573	0.57		
3.939	82224	67576	0.822	0.16		
3.993	76249	68184	0.894	0.14		
4.057	37312	31650	0.848	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.136	18007	13025	0.723	0.03	
4.215	567232	536280	0.945	1.10	
4.262	707777	671691	0.949	1.37	6 Aroclor 1248
4.293	684919	573315	0.837	1.33	
4.348	19611	17282	0.881	0.03	
4.417	235214	220993	0.940	0.45	
4.452	192539	176367	0.916	0.37	
4.507	11439	11567	1.011	0.02	
4.545	438851	412117	0.939	0.85	6 Aroclor 1248
4.586	47737	45269	0.948	0.09	
4.617	64360	50638	0.787	0.12	
4.681	70836	62487	0.882	0.13	
4.736	106647	85592	0.803	0.20	
4.768	79489	73515	0.925	0.15	
4.814	282667	267233	0.945	0.55	6 Aroclor 1248
4.848	267850	247281	0.923	0.52	
4.894	963012	505158	0.525	1.87	6 Aroclor 1248
4.957	290967	255315	0.877	0.56	
5.004	26597	24357	0.916	0.05	
5.036	184346	174393	0.946	0.35	6 Aroclor 1248
5.060	73381	75362	1.027	0.14	
5.101	654227	517858	0.792	1.27	
5.162	1467257	1296020	0.883	2.85	7 Aroclor 1254
5.213	1661301	1474973	0.888	3.23	
5.253	57923	58111	1.003	0.11	
5.284	209897	185238	0.883	0.40	
5.313	466939	424275	0.909	0.90	
5.363	417905	381278	0.912	0.81	
5.406	514726	461945	0.897	1.00	7 Aroclor 1254
5.451	2818579	2637743	0.936	5.49	
5.510	1220704	1002470	0.821	2.37	7 Aroclor 1254
5.576	183100	154698	0.845	0.35	
5.604	156054	121098	0.776	0.30	
5.675	523031	478916	0.916	1.01	
5.709	258025	199444	0.773	0.50	
5.742	533482	391623	0.734	1.03	
5.789	2622564	2052377	0.783	5.10	
5.821	321800	284143	0.883	0.62	
5.900	312311	187927	0.602	0.60	
5.932	159450	138572	0.869	0.31	
5.963	25413	29986	1.180	0.04	
5.994	926902	875450	0.944	1.80	
6.026	700791	607055	0.866	1.36	7 Aroclor 1254
6.056	3682635	3237193	0.879	7.17	
6.169	480855	238368	0.496	0.93	
6.244	460171	259314	0.564	0.89	
6.299	3458749	2774001	0.802	6.73	7 Aroclor 1254
6.332	311453	289123	0.928	0.60	
6.373	91429	70436	0.770	0.17	
6.433	354806	238840	0.673	0.69	
6.484	48025	52671	1.097	0.09	
6.509	1264162	1131302	0.895	2.46	
6.534	680190	605484	0.890	1.32	
6.560	474557	427598	0.901	0.92	
6.603	182348	131273	0.720	0.35	
6.660	51569	44581	0.864	0.10	
6.717	225032	191360	0.850	0.43	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.757	406806	352451	0.866	0.79	
6.802	403016	359641	0.892	0.78	
6.839	265850	223938	0.842	0.51	
6.886	12789	15733	1.230	0.02	
6.913	78799	79670	1.011	0.15	
6.942	461009	431441	0.936	0.89	
7.005	1184736	1032255	0.871	2.30	8 Aroclor 1260
7.033	158347	96125	0.607	0.30	
7.123	31627	21387	0.676	0.06	
7.250	498559	448219	0.899	0.97	8 Aroclor 1260
7.282	141428	107362	0.759	0.27	
7.341	17589	15468	0.879	0.03	
7.389	446130	367850	0.825	0.86	
7.422	36355	47512	1.307	0.07	
7.442	428795	372910	0.870	0.83	8 Aroclor 1260
7.493	69950	49827	0.712	0.13	
7.525	23095	19479	0.843	0.04	
7.559	87635	60694	0.693	0.17	
7.690	103863	88110	0.848	0.20	
7.727	216521	187304	0.865	0.42	
7.765	29512	26335	0.892	0.05	
7.811	180310	102925	0.571	0.35	
7.900	300237	254935	0.849	0.58	8 Aroclor 1260
7.958	55438	28609	0.516	0.10	
8.048	13810	10209	0.739	0.02	
8.198	10090	9963	0.987	0.01	
8.275	394356	338485	0.858	0.76	
8.375	36735	27368	0.745	0.07	
8.448	15302	8152	0.533	0.02	
8.571	5222696	4503341	0.862	10.17	$ 12 Decachlorobiphenyl
8.698	12957	15602	1.204	0.02	
8.727	52134	45278	0.868	0.10	
8.841	11761	9757	0.830	0.02	
8.992	9606	7726	0.804	0.01	
9.170	37023	27768	0.750	0.07	
9.469	23631	12736	0.539	0.04	
9.701	10283	9678	0.941	0.02	
9.735	15312	11070	0.723	0.02	
9.964	19472	11104	0.570	0.03	
	51331969	44023969		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018019.D
Lab Smp Id: 40150340015 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 20-MAR-2018 17:17
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340015 x2,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.017	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	5259569	0.04266	42			
3 Aroclor 1242						CAS #: 53469-21-9		
Operator disabled compound identification.								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	707776	0.30208	300	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	438851	0.10574	100	0.00- 20.00	62.00	CO
4.813	4.812	0.001	282667	0.13924	140	0.00- 20.00	39.94	CO
4.893	4.879	0.014	963012	0.19117	190	0.00- 20.00	136.06	CO
5.036	5.038	-0.002	184346	0.05137	51	0.00- 20.00	26.05	CO
Average of Peak Concentrations =					160			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1467256	0.28026	280	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	514726	0.11967	120	0.00- 20.00	35.08	BA
5.509	5.510	-0.001	1220703	0.15718	160	0.00- 20.00	83.20	BA
6.025	6.027	-0.002	700791	0.14391	140	0.00- 20.00	47.76	BA
6.298	6.299	-0.001	3458748	0.53153	530	0.00- 20.00	235.73	BA
Average of Peak Concentrations =					250			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	1184735	0.11830	120	0.00- 20.00	34.25	BA
7.249	7.251	-0.002	498558	0.10431	100	0.00- 20.00	14.41	BA
7.442	7.443	-0.001	428795	0.14709	150	0.00- 20.00	12.40	BA
7.899	7.901	-0.002	300237	0.11378	110	0.00- 20.00	8.68	BA
Average of Peak Concentrations =					120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5222696	0.04767	48			

QC Flag Legend

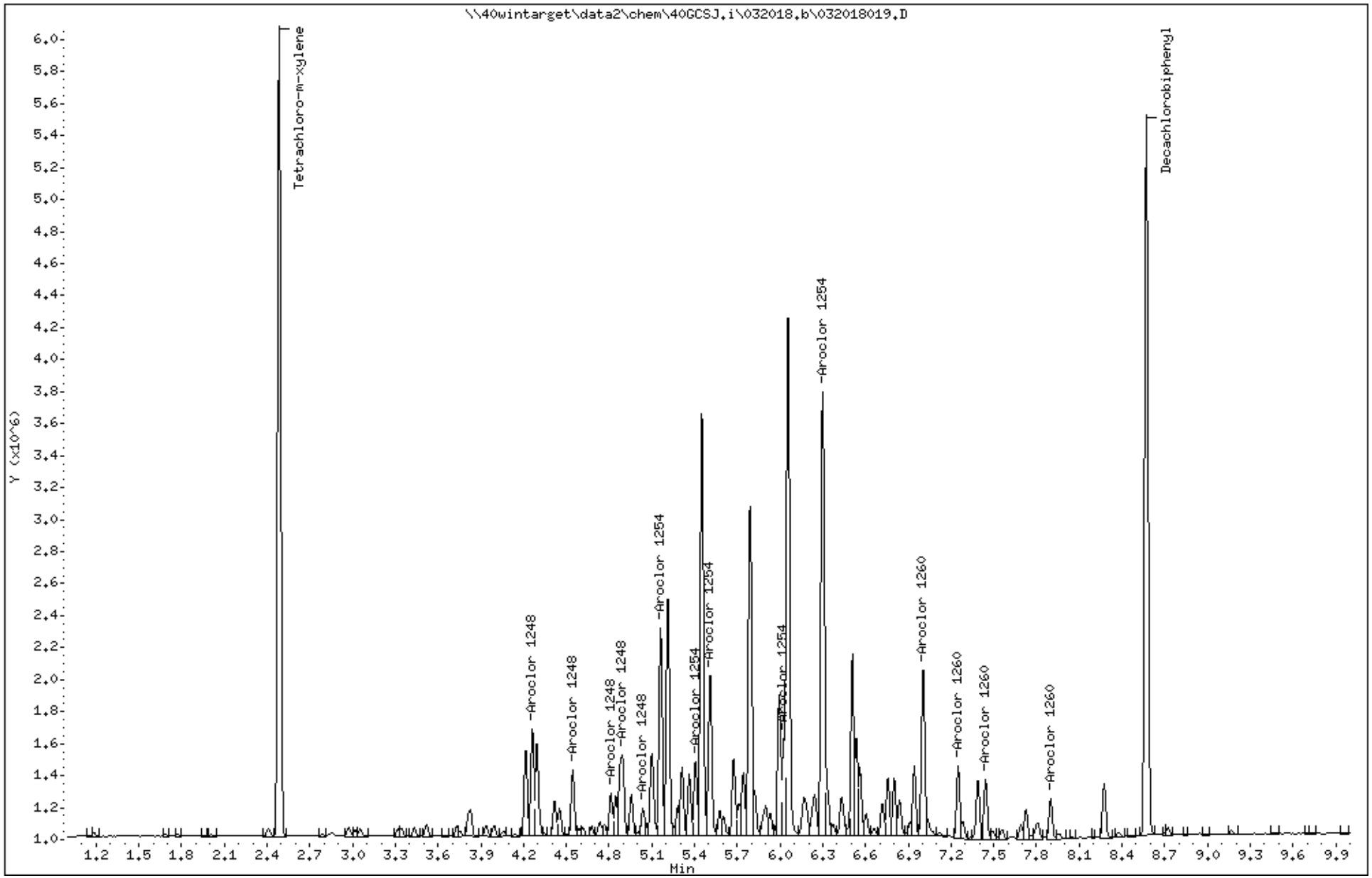
M - Compound response manually integrated.

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\032018.b\032018019.D
Date : 20-MAR-2018 17:17
Client ID: AT1-170519-01-STB-0
Sample Info: 40150340015 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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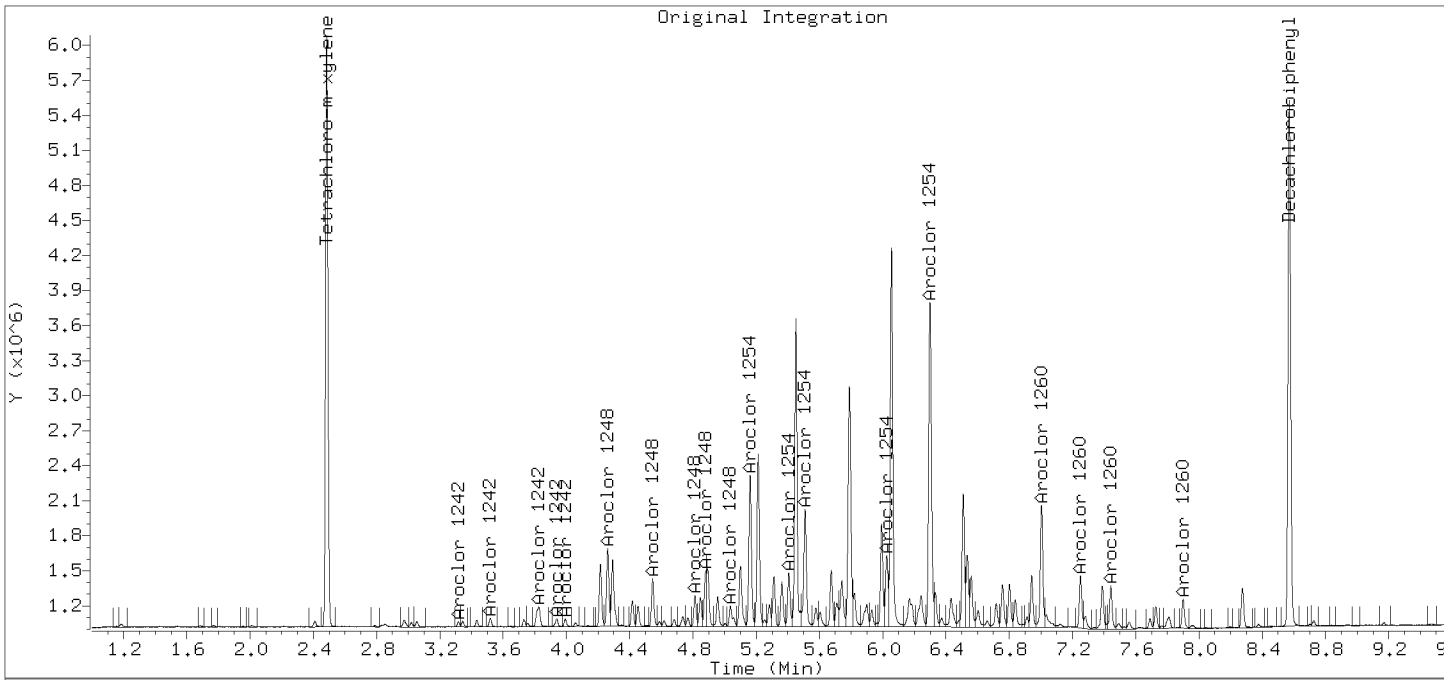
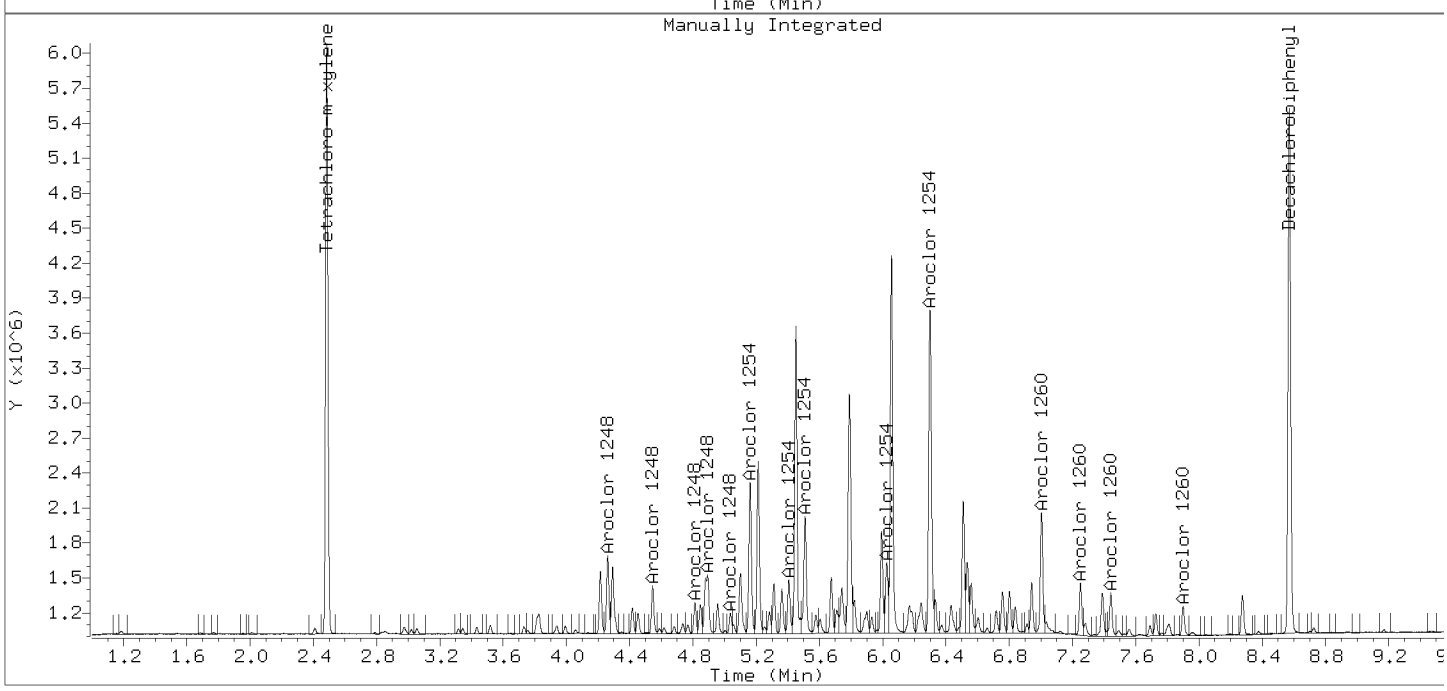
Injection Date: 20-MAR-2018 17:17 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340015





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	47004	0	
Aroclor 1016	47004	0	
Aroclor 1016	47004	0	
Aroclor 1016	47004	0	
Aroclor 1016	47004	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	47004	0	
Aroclor 1242	47004	0	
Aroclor 1242	47004	0	
Aroclor 1242	47004	0	
Aroclor 1242	47004	0	
Aroclor 1248	698912	707776	CO
Aroclor 1248	698912	707776	CO
Aroclor 1248	698912	707776	CO
Aroclor 1248	698912	707776	CO
Aroclor 1248	698912	707776	CO
Aroclor 1254	1474207	1467256	BA
Aroclor 1254	1474207	1467256	BA
Aroclor 1254	1474207	1467256	BA
Aroclor 1254	1474207	1467256	BA
Aroclor 1254	1474207	1467256	BA
Aroclor 1260	3477806	0	BA
Aroclor 1260	3477806	0	BA
Aroclor 1260	3477806	0	BA
Aroclor 1260	3477806	0	BA
Aroclor 1260	3477806	0	BA
Tetrachloro-m-xylene	5259569	5259569	
Decachlorobiphenyl	5222696	5222696	

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SAMPLE NO.

AT1-170519-01-STB-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340016
Date Analyzed: 03/15/2018 19:55
Lab File ID: 031518.B\031518027.D
Initial wt/vol: 10.0061 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)	38.3	J
11097-69-1	PCB-1254 (Aroclor 1254)	58.4	
11096-82-5	PCB-1260 (Aroclor 1260)	94.1	
1336-36-3	PCB, Total	191	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518027.D
Lab Smp Id: 40150340016 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 15-MAR-2018 19:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340016,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	10.006	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.029	18828	12002	0.637	0.03		
1.068	12785	12436	0.973	0.02		
1.101	15544	10186	0.655	0.02		
1.157	18892	11146	0.590	0.03		
1.426	11733	9280	0.791	0.02		
1.536	11331	10992	0.970	0.01		
1.952	10549	10912	1.034	0.01		
2.170	10585	11371	1.074	0.01		
2.292	46883	33460	0.714	0.08		
2.409	81984	70003	0.854	0.14		
2.484	11450803	11267544	0.984	20.66	$ 2 Tetrachloro-m-xylene	
2.786	28527	24134	0.846	0.04		
2.853	56544	32479	0.574	0.09		
2.922	18950	9189	0.485	0.03		
2.973	117301	82831	0.706	0.20		
3.019	40935	40992	1.001	0.07		
3.054	51288	47677	0.930	0.08		
3.319	42685	39083	0.916	0.07		
3.342	39752	34758	0.874	0.06		
3.401	15312	12819	0.837	0.02		
3.434	46604	45490	0.976	0.08		
3.518	70836	55095	0.778	0.12		
3.732	45671	31607	0.692	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.825	186343	107851	0.579	0.32	
3.936	144855	63163	0.436	0.25	
3.991	88894	49398	0.556	0.15	
4.055	71699	35583	0.496	0.12	
4.137	26544	16645	0.627	0.04	
4.215	261392	222229	0.850	0.45	
4.261	237792	227488	0.957	0.41	6 Aroclor 1248
4.292	213327	157350	0.738	0.37	
4.350	37850	23097	0.610	0.06	
4.417	147561	124317	0.842	0.25	
4.452	98985	83771	0.846	0.17	
4.509	42454	22545	0.531	0.07	
4.545	209062	170319	0.815	0.36	6 Aroclor 1248
4.590	34700	27740	0.799	0.06	
4.617	58894	33513	0.569	0.10	
4.679	42872	28501	0.665	0.07	
4.736	68250	47563	0.697	0.11	
4.768	58176	45232	0.778	0.10	
4.812	165960	142686	0.860	0.29	6 Aroclor 1248
4.846	214354	198138	0.924	0.37	
4.894	574192	302519	0.527	1.00	6 Aroclor 1248
4.936	16548	21311	1.288	0.02	
4.955	143104	122786	0.858	0.25	
5.003	31203	27898	0.894	0.05	
5.036	127988	122652	0.958	0.22	6 Aroclor 1248
5.067	372272	253284	0.680	0.65	
5.099	726944	406184	0.559	1.27	
5.162	944372	786611	0.833	1.65	7 Aroclor 1254
5.212	931418	803637	0.863	1.62	
5.253	83761	73480	0.877	0.14	
5.281	126737	105046	0.829	0.22	
5.312	436302	400410	0.918	0.76	
5.362	276875	242847	0.877	0.48	
5.406	322855	273517	0.847	0.56	7 Aroclor 1254
5.450	2258876	2166650	0.959	3.94	
5.508	796536	653070	0.820	1.39	7 Aroclor 1254
5.577	152137	112784	0.741	0.26	
5.603	171475	109085	0.636	0.29	
5.674	391304	344858	0.881	0.68	
5.709	235294	173208	0.736	0.41	
5.741	328169	241981	0.737	0.57	
5.788	1738703	1424229	0.819	3.03	
5.821	399034	299303	0.750	0.69	
5.898	305811	180313	0.590	0.53	
5.930	142664	111709	0.783	0.24	
5.963	36236	42176	1.164	0.06	
5.993	727967	671976	0.923	1.27	
6.025	532388	467180	0.878	0.93	7 Aroclor 1254
6.055	2706469	2376053	0.878	4.72	
6.124	116533	82360	0.707	0.20	
6.168	286286	201795	0.705	0.50	
6.183	210210	203015	0.966	0.36	
6.242	388293	223450	0.575	0.67	
6.298	2441943	2012273	0.824	4.26	8 Aroclor 1260
6.333	200990	186095	0.926	0.35	
6.372	58432	49766	0.852	0.10	
6.404	6829	13867	2.031	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.431	371798	265624	0.714	0.64	
6.486	54640	59954	1.097	0.09	
6.509	1462619	1305544	0.893	2.55	
6.534	391164	401210	1.026	0.68	
6.561	516695	469352	0.908	0.90	
6.603	146368	106553	0.728	0.25	
6.658	47060	41555	0.883	0.08	
6.716	257223	228742	0.889	0.44	
6.757	449623	410138	0.912	0.78	
6.801	366858	327720	0.893	0.64	
6.837	321771	283109	0.880	0.56	
6.884	21360	23117	1.082	0.03	
6.912	128316	126265	0.984	0.22	
6.942	468200	470946	1.006	0.81	
7.004	1412325	1311855	0.929	2.46	8 Aroclor 1260
7.034	146842	100599	0.685	0.25	
7.077	30059	20341	0.677	0.05	
7.123	26393	25327	0.960	0.04	
7.250	545503	476244	0.873	0.95	8 Aroclor 1260
7.278	155322	118939	0.766	0.27	
7.337	26513	19248	0.726	0.04	
7.388	675640	603479	0.893	1.18	
7.418	39571	64788	1.637	0.06	
7.441	640803	564859	0.881	1.11	8 Aroclor 1260
7.491	98173	67310	0.686	0.17	
7.527	41155	34751	0.844	0.07	
7.557	100044	66813	0.668	0.17	
7.621	34352	18601	0.541	0.06	
7.689	161627	135269	0.837	0.28	
7.726	370567	329994	0.891	0.64	
7.761	47488	42791	0.901	0.08	
7.806	249858	141585	0.567	0.43	
7.861	31021	28004	0.903	0.05	
7.900	505449	427197	0.845	0.88	8 Aroclor 1260
7.957	91204	45478	0.499	0.15	
8.050	31211	26807	0.859	0.05	
8.192	23257	14910	0.641	0.04	
8.274	742183	703858	0.948	1.29	
8.375	54138	50447	0.932	0.09	
8.447	39046	22968	0.588	0.06	
8.570	11055088	9795012	0.886	19.32	$ 12 Decachlorobiphenyl
8.702	50331	39659	0.788	0.08	
8.724	105780	95212	0.900	0.18	
8.837	22197	15254	0.687	0.03	
8.989	19277	16046	0.832	0.03	
9.030	10060	8647	0.860	0.01	
9.056	30921	24446	0.791	0.05	
9.168	66524	59145	0.889	0.11	
9.285	12473	9440	0.757	0.02	
9.405	9922	7786	0.785	0.01	
9.468	23683	13869	0.586	0.04	
9.536	13765	10667	0.775	0.02	
9.696	22214	17902	0.806	0.03	
9.737	33390	29239	0.876	0.05	
	57220498	50156608		100.000	

Total unknown % area = 44

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518027.D
Lab Smp Id: 40150340016 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 15-MAR-2018 19:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340016,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	10.006	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.483	2.484	-0.001	11450803	0.09287	46			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	237792	0.10149	51	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	209061	0.05037	25	0.00- 20.00	87.92	BA
4.812	4.812	0.000	165959	0.08175	41	0.00- 20.00	69.79	BA
4.893	4.879	0.014	574191	0.11398	57	0.00- 20.00	241.47	BA
5.036	5.038	-0.002	127987	0.03567	18	0.00- 20.00	53.82	BA
Average of Peak Concentrations =					38			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	944371	0.18039	90	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	322855	0.07506	38	0.00- 20.00	34.19	BA
5.508	5.510	-0.002	796535	0.10257	51	0.00- 20.00	84.35	BA
6.025	6.027	-0.002	532388	0.10933	55	0.00- 20.00	56.37	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					58			
8 Aroclor 1260					CAS #: 11096-82-5			
6.297	6.300	-0.003	2441943	0.27554	140	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	1412324	0.14103	70	0.00- 20.00	57.84	BA
7.249	7.251	-0.002	545503	0.11413	57	0.00- 20.00	22.34	BA
7.441	7.443	-0.002	640802	0.21982	110	0.00- 20.00	26.24	BA
7.899	7.901	-0.002	505449	0.19155	96	0.00- 20.00	20.70	BA
Average of Peak Concentrations =					94			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	11055088	0.10090	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\031518.b\031518027.D

Date : 15-MAR-2018 19:55

Client ID: AT1-170519-01-STB-0

Instrument: 40GCSJ.i

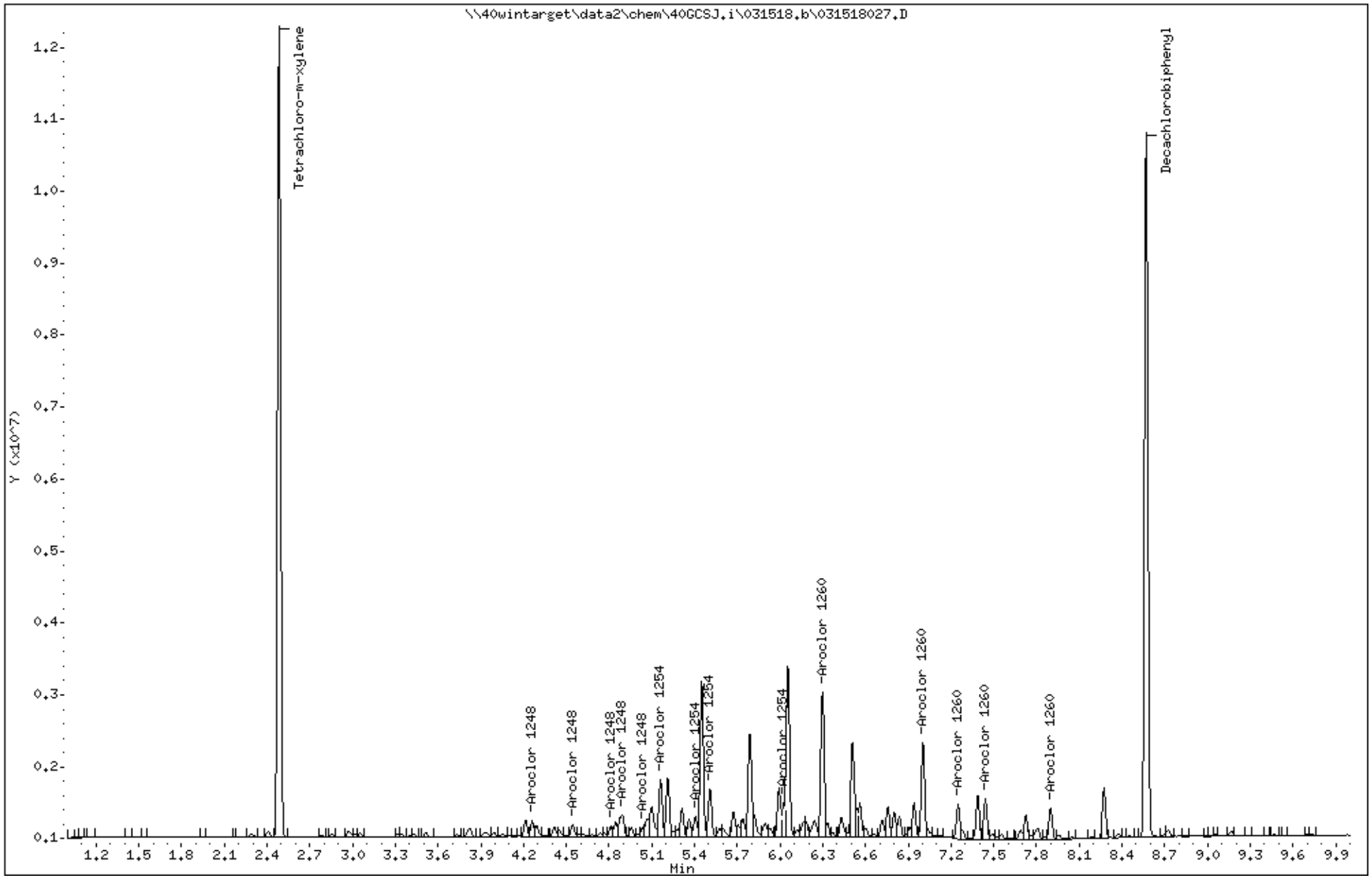
Sample Info: 40150340016,

Volume Injected (uL): 1.0

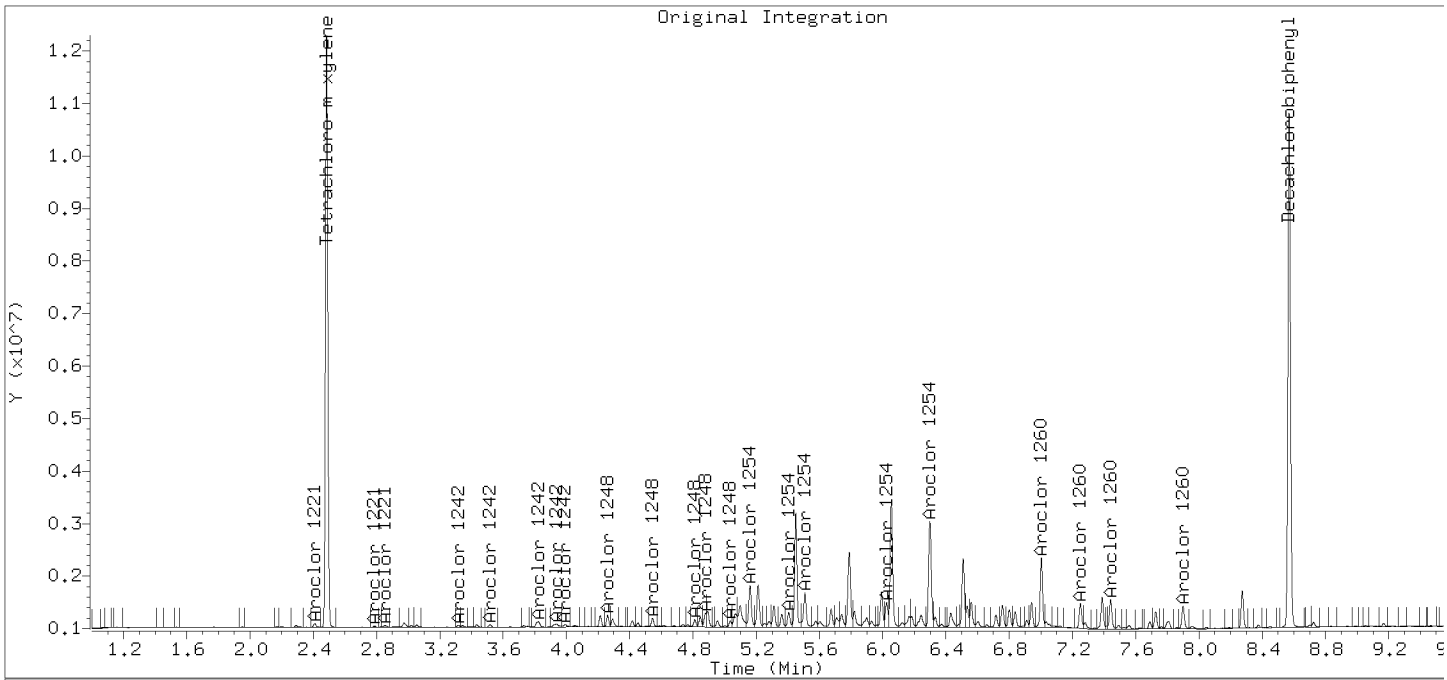
Operator: BLM

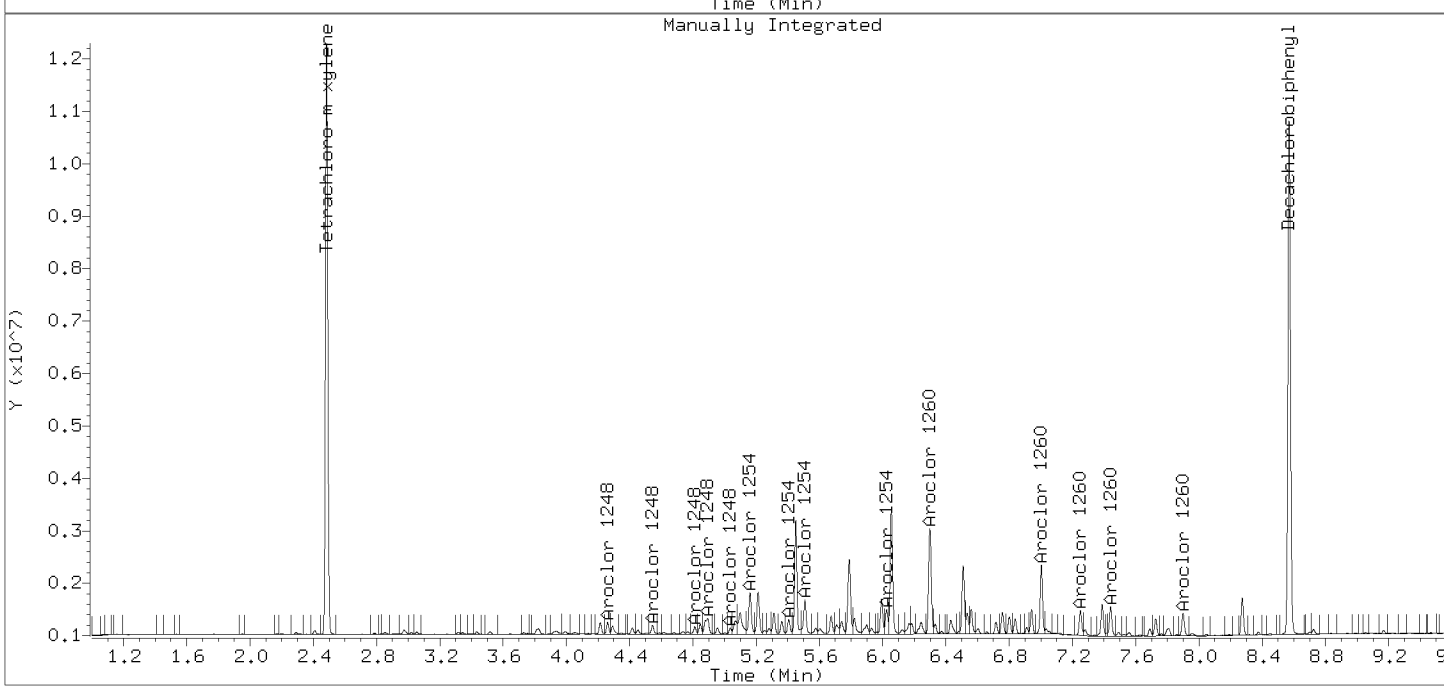
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 19:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340016





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	42684	0	
Aroclor 1016	42684	0	
Aroclor 1016	42684	0	
Aroclor 1016	42684	0	
Aroclor 1016	42684	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	56543	0	
Aroclor 1232	56543	0	
Aroclor 1232	56543	0	
Aroclor 1232	56543	0	

Aroclor 1232	56543	0	
Aroclor 1242	42684	0	
Aroclor 1242	42684	0	
Aroclor 1242	42684	0	
Aroclor 1242	42684	0	
Aroclor 1242	42684	0	
Aroclor 1248	223360	237792	BA
Aroclor 1248	223360	237792	BA
Aroclor 1248	223360	237792	BA
Aroclor 1248	223360	237792	BA
Aroclor 1248	223360	237792	BA
Aroclor 1254	942113	944371	BA
Aroclor 1254	942113	944371	BA
Aroclor 1254	942113	944371	BA
Aroclor 1254	942113	944371	BA
Aroclor 1254	942113	944371	BA
Aroclor 1260	2463583	2441943	BA
Aroclor 1260	2463583	2441943	BA
Aroclor 1260	2463583	2441943	BA
Aroclor 1260	2463583	2441943	BA
Aroclor 1260	2463583	2441943	BA
Tetrachloro-m-xylene	11450803	11450803	
Decachlorobiphenyl	11055088	11055088	

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SAMPLE NO.

AT1-170519-01-STB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340017
Date Analyzed: 03/15/2018 20:42
Lab File ID: 031518.B\031518030.D
Initial wt/vol: 10.0114 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)	88.3	
11097-69-1	PCB-1254 (Aroclor 1254)	107	
11096-82-5	PCB-1260 (Aroclor 1260)	125	
1336-36-3	PCB, Total	320	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518030.D
Lab Smp Id: 40150340017 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 15-MAR-2018 20:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340017,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.011	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.032	14949	10743	0.719	0.01		
1.072	9610	10087	1.050	0.01		
2.169	9308	8339	0.896	0.01		
2.195	16140	10565	0.655	0.02		
2.292	30608	29428	0.961	0.03		
2.409	111104	95614	0.861	0.14		
2.484	12220910	12046310	0.986	16.25	$ 2 Tetrachloro-m-xylene	
2.785	29514	28098	0.952	0.03		
2.852	83800	47667	0.569	0.10		
2.917	17180	10594	0.617	0.02		
2.973	128967	86951	0.674	0.16		
3.019	60291	59361	0.985	0.07		
3.054	110682	103453	0.935	0.14		
3.316	83325	80974	0.972	0.10		
3.343	72199	70967	0.983	0.09		
3.402	12661	13836	1.093	0.01		
3.434	130081	118964	0.915	0.16		
3.519	148863	138075	0.928	0.18		
3.643	17746	12274	0.692	0.02		
3.694	12673	13449	1.061	0.01		
3.731	85189	88722	1.041	0.10		
3.755	44062	41312	0.938	0.05		
3.825	412340	234905	0.570	0.52		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.938	137906	102987	0.747	0.17	
3.991	109704	93984	0.857	0.13	
4.057	81391	53335	0.655	0.10	
4.133	24480	19494	0.796	0.03	
4.214	651669	609024	0.935	0.83	
4.260	695780	675849	0.971	0.88	6 Aroclor 1248
4.291	665916	537751	0.808	0.84	
4.346	39762	26634	0.670	0.05	
4.416	316280	276564	0.874	0.40	
4.451	236349	207578	0.878	0.30	
4.501	43694	23704	0.542	0.05	
4.545	485261	448711	0.925	0.61	6 Aroclor 1248
4.588	65275	53048	0.813	0.08	
4.616	83293	66832	0.802	0.10	
4.654	11784	16299	1.383	0.01	
4.680	82528	68778	0.833	0.10	
4.736	125475	92409	0.736	0.16	
4.767	99942	87496	0.875	0.12	
4.812	333315	310005	0.930	0.42	6 Aroclor 1248
4.846	360483	331387	0.919	0.45	
4.894	1175046	595839	0.507	1.49	6 Aroclor 1248
4.957	323804	269500	0.832	0.41	
5.002	39312	36422	0.926	0.05	
5.036	259479	245552	0.946	0.33	6 Aroclor 1248
5.057	138041	125463	0.909	0.17	
5.099	790623	626442	0.792	1.00	
5.162	1700063	1481449	0.871	2.16	7 Aroclor 1254
5.212	1925252	1718375	0.893	2.45	
5.252	72290	66975	0.926	0.09	
5.282	233669	207123	0.886	0.29	
5.312	649720	591365	0.910	0.82	
5.362	508087	466242	0.918	0.64	
5.405	607208	553139	0.911	0.77	7 Aroclor 1254
5.451	4977466	4831709	0.971	6.34	
5.477	88895	138233	1.555	0.11	
5.509	1574885	1324453	0.841	2.00	7 Aroclor 1254
5.577	271913	208982	0.769	0.34	
5.603	243042	182803	0.752	0.31	
5.675	673289	613432	0.911	0.85	
5.708	318123	254370	0.800	0.40	
5.741	655546	475438	0.725	0.83	
5.789	3075049	2606000	0.847	3.92	
5.821	477075	405213	0.849	0.60	
5.899	425076	275827	0.649	0.54	
5.931	201267	173728	0.863	0.25	
5.964	52637	58187	1.105	0.06	
5.994	1211403	1120382	0.925	1.54	
6.024	924712	838319	0.907	1.17	7 Aroclor 1254
6.055	4463103	4055328	0.909	5.69	
6.120	37001	26360	0.712	0.04	
6.168	680245	330843	0.486	0.86	
6.243	559161	326840	0.585	0.71	
6.299	4277845	3622984	0.847	5.45	8 Aroclor 1260
6.332	340308	322387	0.947	0.43	
6.372	93543	80810	0.864	0.11	
6.405	8397	14454	1.721	0.01	
6.431	529703	347059	0.655	0.67	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.484	94817	82025	0.865	0.12	
6.510	1870931	1701350	0.909	2.38	
6.535	842613	796421	0.945	1.07	
6.559	671199	629605	0.938	0.85	
6.603	206991	151637	0.733	0.26	
6.661	64986	57663	0.887	0.08	
6.718	298066	276011	0.926	0.38	
6.756	500214	433479	0.867	0.63	
6.802	544754	515474	0.946	0.69	
6.838	440838	393171	0.892	0.56	
6.886	38094	41366	1.086	0.04	
6.914	143483	138223	0.963	0.18	
6.941	651369	643720	0.988	0.83	
7.004	1780177	1609286	0.904	2.27	8 Aroclor 1260
7.034	132722	133623	1.007	0.16	
7.054	128812	94731	0.735	0.16	
7.121	16326	16172	0.991	0.02	
7.250	733801	673836	0.918	0.93	8 Aroclor 1260
7.281	180278	149097	0.827	0.22	
7.339	23769	20341	0.856	0.03	
7.388	796005	671280	0.843	1.01	
7.418	38060	65763	1.728	0.04	
7.442	723578	630344	0.871	0.92	8 Aroclor 1260
7.493	91740	58931	0.642	0.11	
7.527	28025	27626	0.986	0.03	
7.559	116910	90168	0.771	0.14	
7.621	33235	17431	0.524	0.04	
7.689	157229	134540	0.856	0.20	
7.727	410374	364574	0.888	0.52	
7.762	59039	49039	0.831	0.07	
7.808	264248	158118	0.598	0.33	
7.866	25610	18299	0.715	0.03	
7.899	491568	435766	0.886	0.62	8 Aroclor 1260
7.956	104857	64818	0.618	0.13	
8.047	18923	15718	0.831	0.02	
8.101	21217	19714	0.929	0.02	
8.193	76721	65194	0.850	0.09	
8.274	753586	697770	0.926	0.96	
8.376	56618	51720	0.913	0.07	
8.449	23750	16943	0.713	0.03	
8.570	11344660	9923041	0.875	14.47	$ 12 Decachlorobiphenyl
8.705	20921	20769	0.993	0.02	
8.724	77402	63099	0.815	0.09	
8.943	20717	10845	0.523	0.02	
8.993	10598	9243	0.872	0.01	
9.050	15555	11141	0.716	0.01	
9.167	59905	50508	0.843	0.07	
9.465	32005	16253	0.508	0.04	
9.699	18021	16840	0.934	0.02	
9.738	23561	19529	0.829	0.03	
9.856	16548	11527	0.697	0.02	
	78390187	69444366		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518030.D
Lab Smp Id: 40150340017 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 15-MAR-2018 20:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340017,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.011	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	12220909	0.09912	50			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	695780	0.29696	150	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	485260	0.11692	58	0.00- 20.00	69.74	BA
4.811	4.812	-0.001	333315	0.16419	82	0.00- 20.00	47.91	BA
4.894	4.879	0.015	1175045	0.23326	120	0.00- 20.00	168.88	BA
5.035	5.038	-0.003	259479	0.07231	36	0.00- 20.00	37.29	BA
		Average of Peak Concentrations =			88			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1700063	0.32473	160	0.00- 20.00	100.00(M)	CO
5.405	5.408	-0.003	607208	0.14118	70	0.00- 20.00	35.72	CO
5.509	5.510	-0.001	1574884	0.20279	100	0.00- 20.00	92.64	CO
6.024	6.027	-0.003	924711	0.18989	95	0.00- 20.00	54.39	CO
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	CO
		Average of Peak Concentrations =			110			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	4277844	0.48270	240	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1780177	0.17776	89	0.00- 20.00	41.61	BA
7.250	7.251	-0.001	733800	0.15352	77	0.00- 20.00	17.15	BA
7.442	7.443	-0.001	723577	0.24822	120	0.00- 20.00	16.91	BA
7.898	7.901	-0.003	491567	0.18629	93	0.00- 20.00	11.49	BA
		Average of Peak Concentrations =			120			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	11344659	0.10355	52			

QC Flag Legend

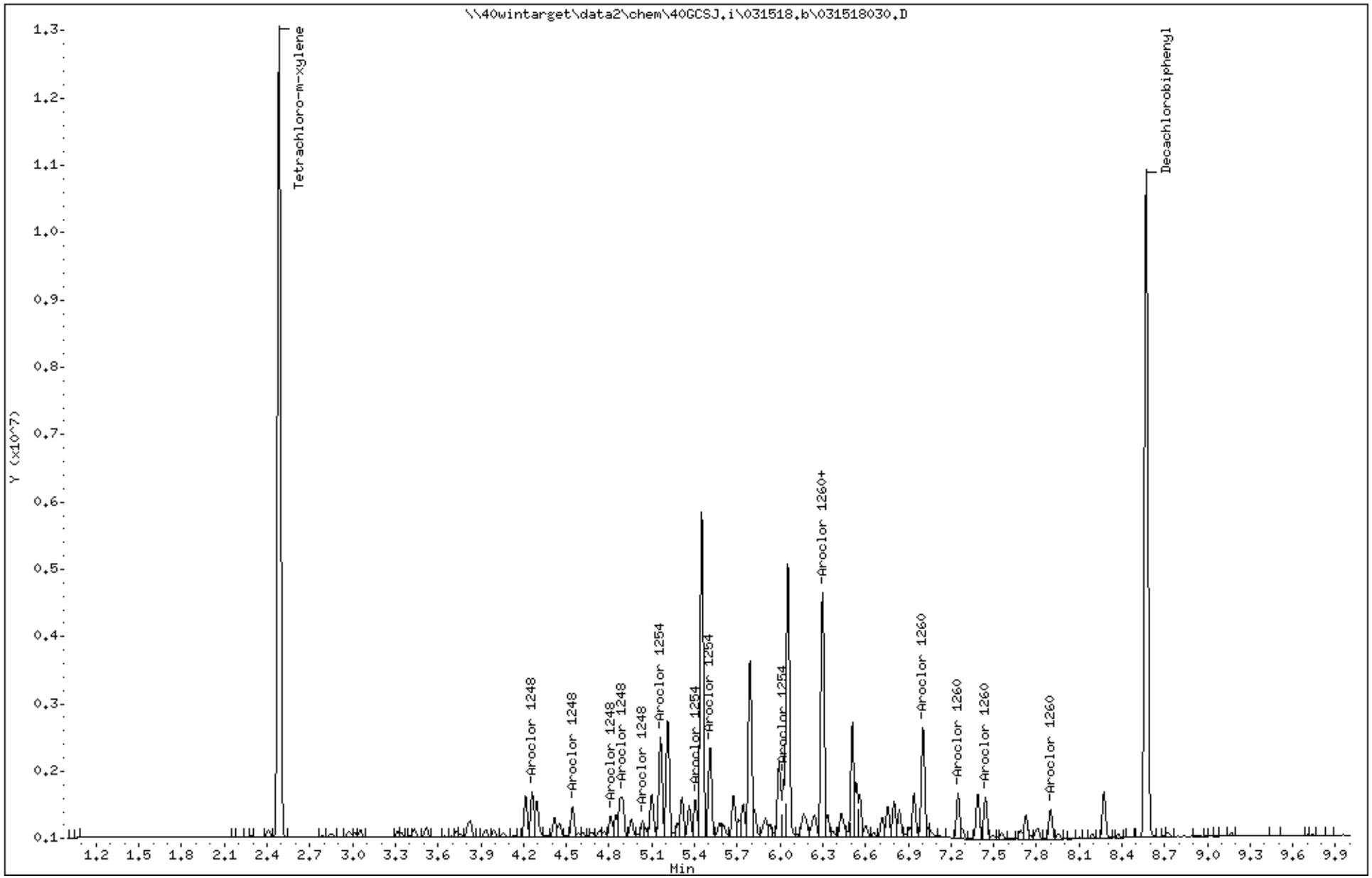
M - Compound response manually integrated.

Review Codes Legend

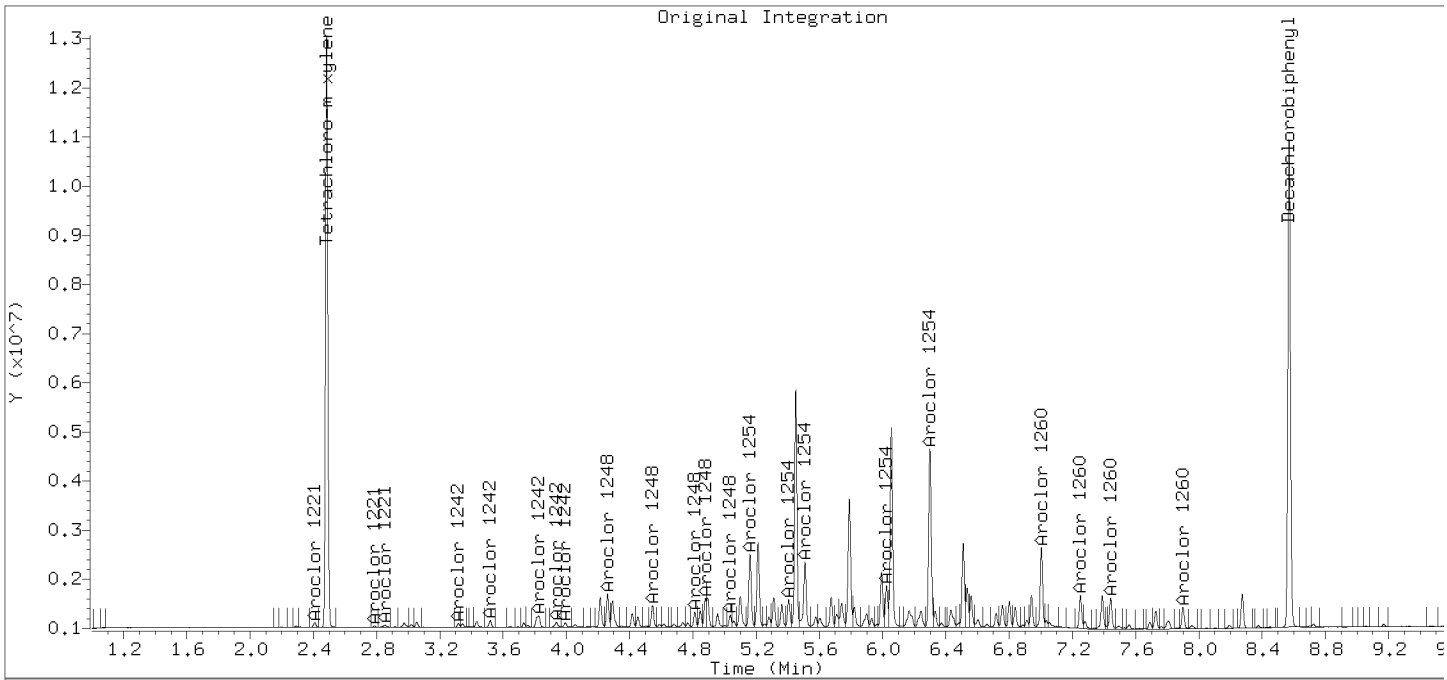
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

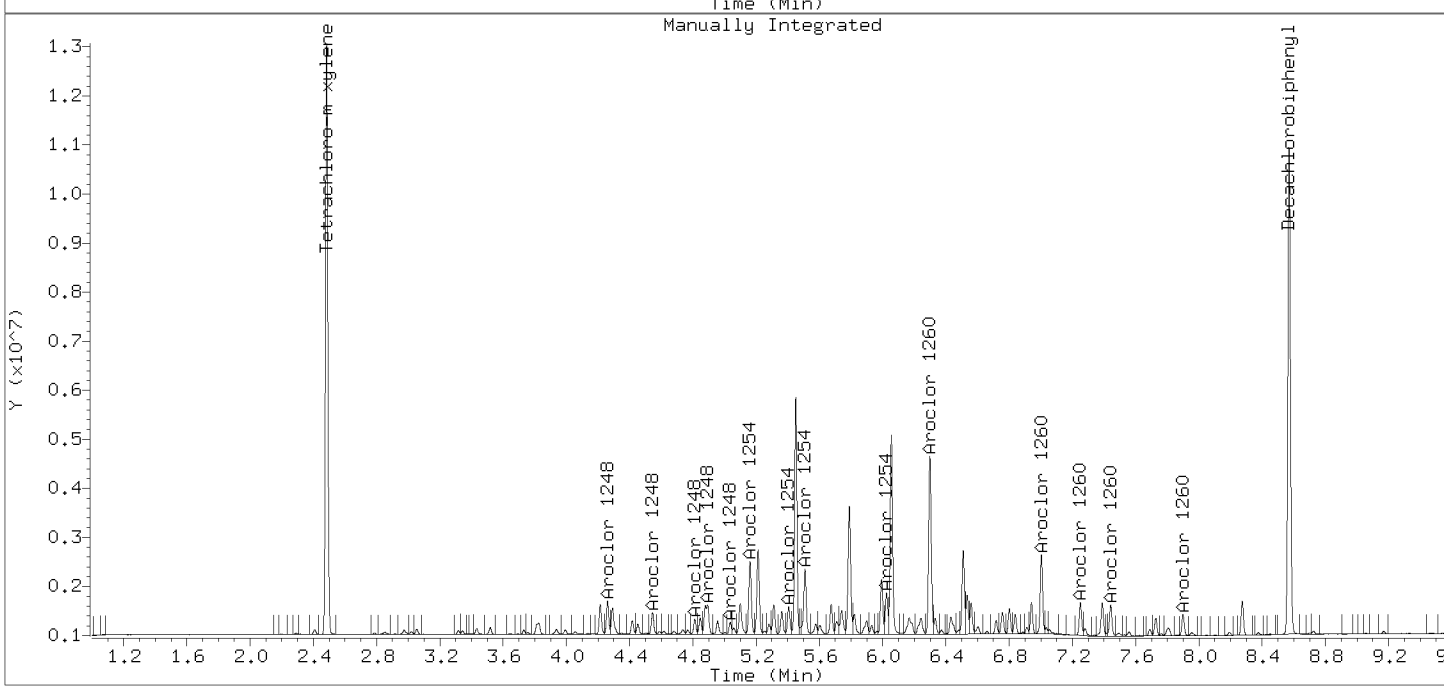
Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518030.D
Date : 15-MAR-2018 20:42
Client ID: AT1-170519-01-STB-0
Sample Info: 40150340017,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 20:42 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340017





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	83325	0	
Aroclor 1016	83325	0	
Aroclor 1016	83325	0	
Aroclor 1016	83325	0	
Aroclor 1016	83325	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	83799	0	
Aroclor 1232	83799	0	
Aroclor 1232	83799	0	
Aroclor 1232	83799	0	

Aroclor 1232	83799	0	
Aroclor 1242	83325	0	
Aroclor 1242	83325	0	
Aroclor 1242	83325	0	
Aroclor 1242	83325	0	
Aroclor 1242	83325	0	
Aroclor 1248	684732	695780	BA
Aroclor 1248	684732	695780	BA
Aroclor 1248	684732	695780	BA
Aroclor 1248	684732	695780	BA
Aroclor 1248	684732	695780	BA
Aroclor 1254	1703327	1700063	CO
Aroclor 1254	1703327	1700063	CO
Aroclor 1254	1703327	1700063	CO
Aroclor 1254	1703327	1700063	CO
Aroclor 1254	1703327	1700063	CO
Aroclor 1260	4301948	4277844	BA
Aroclor 1260	4301948	4277844	BA
Aroclor 1260	4301948	4277844	BA
Aroclor 1260	4301948	4277844	BA
Aroclor 1260	4301948	4277844	BA
Tetrachloro-m-xylene	12220909	12220909	
Decachlorobiphenyl	11344659	11344659	

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SAMPLE NO.

AT1-170519-01-STB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340018
Date Analyzed: 03/15/2018 20:58
Lab File ID: 031518.B\031518031.D
Initial wt/vol: 9.9955 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)	149	
11097-69-1	PCB-1254 (Aroclor 1254)	163	
11096-82-5	PCB-1260 (Aroclor 1260)	85.3	
1336-36-3	PCB, Total	397	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518031.D
Lab Smp Id: 40150340018 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 15-MAR-2018 20:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340018,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	9.995	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.029	11691	11052	0.945	0.01		
1.160	21652	18016	0.832	0.02		
1.541	13199	9033	0.684	0.01		
1.771	23150	22905	0.989	0.02		
1.799	16307	13769	0.844	0.01		
1.830	14653	8932	0.610	0.01		
1.951	26113	16651	0.638	0.03		
2.064	13465	9453	0.702	0.01		
2.126	10843	9848	0.908	0.01		
2.170	15146	15409	1.017	0.01		
2.203	10099	7887	0.781	0.01		
2.291	23123	25546	1.105	0.02		
2.318	22972	23527	1.024	0.02		
2.410	189945	162198	0.854	0.22		
2.484	11748887	11648481	0.991	14.79	$ 2 Tetrachloro-m-xylene	
2.603	9519	6910	0.726	0.01		
2.787	36849	33709	0.915	0.04		
2.833	25579	37168	1.453	0.03		
2.850	79358	58221	0.734	0.09		
2.974	210114	134782	0.641	0.25		
3.019	98831	100130	1.013	0.11		
3.054	150178	143912	0.958	0.18		
3.316	181102	178798	0.987	0.21		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.344	195943	186823	0.953	0.23	
3.401	9972	11650	1.168	0.01	
3.433	229476	210499	0.917	0.27	
3.518	299215	269035	0.899	0.35	
3.644	26398	21814	0.826	0.03	
3.732	205362	201861	0.983	0.24	
3.755	89044	87535	0.983	0.10	
3.825	875663	487590	0.557	1.05	
3.938	276442	223768	0.809	0.33	
3.993	188188	173843	0.924	0.22	
4.058	148446	108632	0.732	0.17	
4.136	47949	40989	0.855	0.05	
4.214	1263150	1178722	0.933	1.51	
4.261	1347422	1299379	0.964	1.61	6 Aroclor 1248
4.291	1252085	1032457	0.825	1.50	
4.348	49574	38273	0.772	0.05	
4.417	553603	511196	0.923	0.66	
4.452	399580	357353	0.894	0.47	
4.501	59278	32664	0.551	0.07	
4.545	952261	892778	0.938	1.14	6 Aroclor 1248
4.587	88838	80644	0.908	0.10	
4.616	146388	131103	0.896	0.17	
4.655	16829	19202	1.141	0.02	
4.681	105767	90147	0.852	0.12	
4.736	163108	131263	0.805	0.19	
4.766	150933	140311	0.930	0.18	
4.812	477794	459273	0.961	0.57	6 Aroclor 1248
4.847	545445	521301	0.956	0.65	
4.893	1733305	959558	0.554	2.08	6 Aroclor 1248
4.956	467096	382000	0.818	0.56	
5.002	48352	46177	0.955	0.05	
5.036	391751	374192	0.955	0.47	6 Aroclor 1248
5.058	150679	141563	0.940	0.18	
5.100	1120830	928856	0.829	1.34	
5.161	1821368	1606116	0.882	2.18	7 Aroclor 1254
5.213	1981048	1752361	0.885	2.37	
5.253	109584	107784	0.984	0.13	
5.283	253204	224865	0.888	0.30	
5.312	822287	761211	0.926	0.98	
5.362	532419	499011	0.937	0.63	
5.405	774649	717884	0.927	0.93	7 Aroclor 1254
5.451	4842794	4567439	0.943	5.81	
5.509	1889334	1609827	0.852	2.26	7 Aroclor 1254
5.575	290974	203973	0.701	0.34	
5.603	317735	260003	0.818	0.38	
5.674	739437	696759	0.942	0.88	
5.709	442131	338885	0.766	0.53	
5.742	628675	479830	0.763	0.75	
5.789	3201627	2666725	0.833	3.84	
5.821	649544	600728	0.925	0.77	
5.898	506682	300382	0.593	0.60	
5.931	216196	196689	0.910	0.25	
5.962	52506	56133	1.069	0.06	
5.993	1169056	1100988	0.942	1.40	
6.024	1046134	953169	0.911	1.25	7 Aroclor 1254
6.055	4170644	3719496	0.892	5.00	
6.115	33007	22953	0.695	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.167	433115	347066	0.801	0.52	
6.184	264460	271826	1.028	0.31	
6.242	612116	354087	0.578	0.73	
6.299	4174353	3429182	0.821	5.01	7 Aroclor 1254
6.332	339225	321424	0.948	0.40	
6.372	105769	95536	0.903	0.12	
6.404	12462	17032	1.367	0.01	
6.432	500983	351680	0.702	0.60	
6.509	1847076	1606855	0.870	2.21	
6.535	784395	779242	0.993	0.94	
6.560	624521	554605	0.888	0.74	
6.602	225420	151880	0.674	0.27	
6.659	64039	59776	0.933	0.07	
6.718	335353	294451	0.878	0.40	
6.757	546941	473653	0.866	0.65	
6.801	527580	501453	0.950	0.63	
6.838	319064	277266	0.869	0.38	
6.885	19401	19427	1.001	0.02	
6.912	100193	103042	1.028	0.12	
6.941	793536	794525	1.001	0.95	
7.003	1628680	1510823	0.928	1.95	8 Aroclor 1260
7.034	168881	121182	0.718	0.20	
7.121	22756	21116	0.928	0.02	
7.250	694969	620279	0.893	0.83	8 Aroclor 1260
7.280	195855	148784	0.760	0.23	
7.341	30646	23689	0.773	0.03	
7.389	607992	519326	0.854	0.73	
7.420	66194	83635	1.263	0.07	
7.441	611873	513801	0.840	0.73	8 Aroclor 1260
7.493	103060	69703	0.676	0.12	
7.527	28224	26639	0.944	0.03	
7.557	125870	91729	0.729	0.15	
7.619	33738	19873	0.589	0.04	
7.689	139850	119582	0.855	0.16	
7.726	245701	210519	0.857	0.29	
7.763	44589	33955	0.762	0.05	
7.811	252591	176047	0.697	0.30	
7.862	22627	19048	0.842	0.02	
7.900	432445	363490	0.841	0.51	8 Aroclor 1260
7.955	65601	38321	0.584	0.07	
8.049	34775	25836	0.743	0.04	
8.192	13869	11311	0.816	0.01	
8.274	483873	438491	0.906	0.58	
8.375	41290	30204	0.732	0.04	
8.452	16122	12107	0.751	0.01	
8.569	10683322	9241527	0.865	12.82	$ 12 Decachlorobiphenyl
8.703	27154	28157	1.037	0.03	
8.724	92699	84709	0.914	0.11	
8.837	11375	9423	0.828	0.01	
8.938	19593	13264	0.677	0.02	
8.990	10467	9136	0.873	0.01	
9.051	19259	14008	0.727	0.02	
9.168	51313	39683	0.773	0.06	
9.466	41033	19316	0.471	0.04	
9.698	11566	12064	1.043	0.01	
9.732	26945	21574	0.801	0.03	
9.958	22404	13666	0.610	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
	83279183	73472024		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518031.D
Lab Smp Id: 40150340018 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 15-MAR-2018 20:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340018,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	9.995	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	11748887	0.09529	48			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1347421	0.57509	290	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	952260	0.22944	110	0.00- 20.00	70.67	BA
4.811	4.812	-0.001	477793	0.23536	120	0.00- 20.00	35.46	BA
4.893	4.879	0.014	1733304	0.34408	170	0.00- 20.00	128.64	BA
5.036	5.038	-0.002	391750	0.10917	55	0.00- 20.00	29.07	BA
			Average of Peak Concentrations =		150			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1821368	0.34790	170	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	774649	0.18011	90	0.00- 20.00	42.53	BA
5.509	5.510	-0.001	1889333	0.24328	120	0.00- 20.00	103.73	BA
6.024	6.027	-0.003	1046134	0.21483	110	0.00- 20.00	57.44	BA
6.298	6.299	-0.001	4174353	0.64151	320	0.00- 20.00	229.19	BA
			Average of Peak Concentrations =		160			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	1628680	0.16263	81	0.00- 20.00	39.02	BA
7.249	7.251	-0.002	694969	0.14540	73	0.00- 20.00	16.65	BA
7.441	7.443	-0.002	611873	0.20990	100	0.00- 20.00	14.66	BA
7.899	7.901	-0.002	432445	0.16388	82	0.00- 20.00	10.36	BA
			Average of Peak Concentrations =		85			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	10683322	0.09751	49			

QC Flag Legend

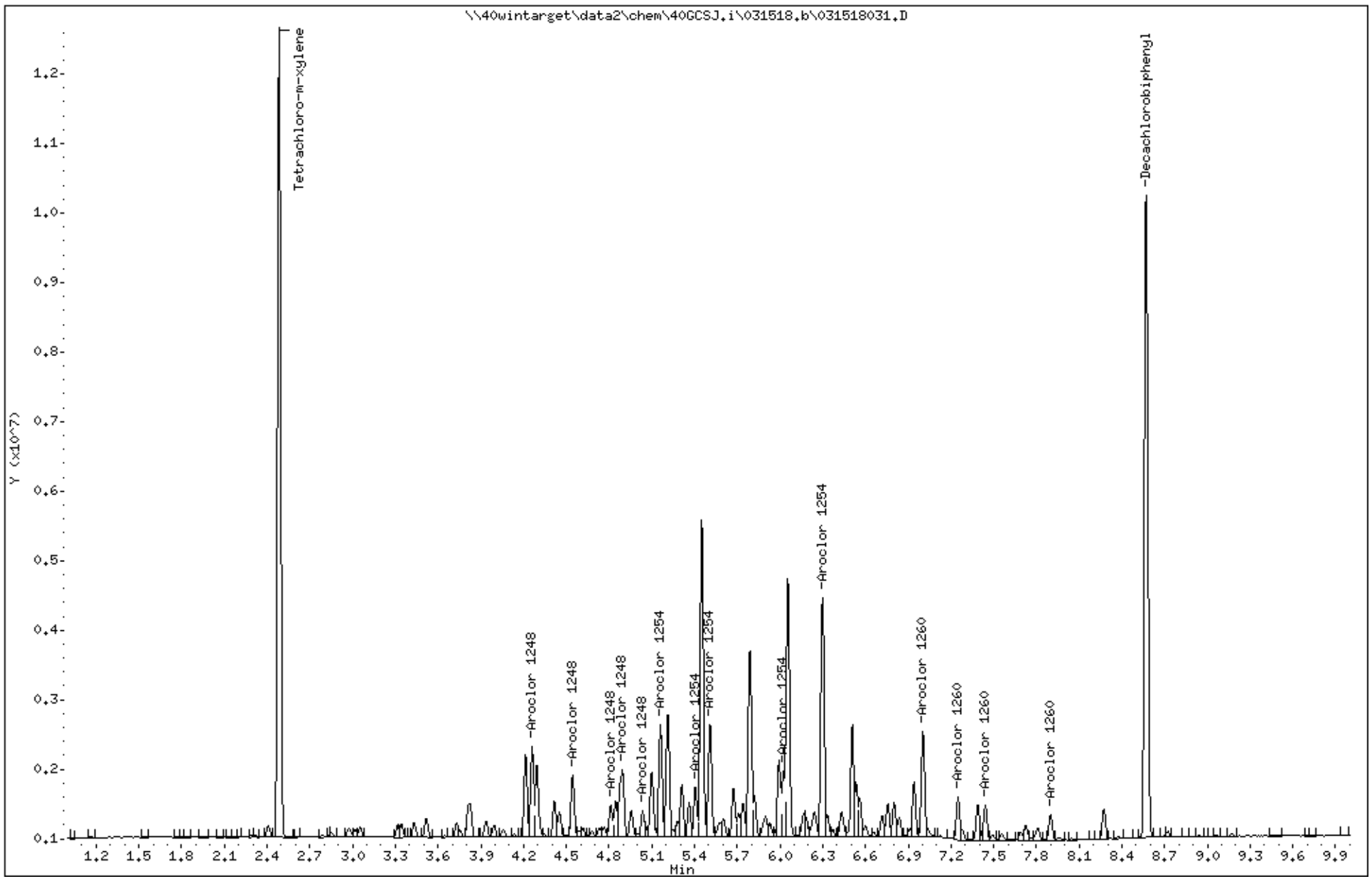
M - Compound response manually integrated.

Review Codes Legend

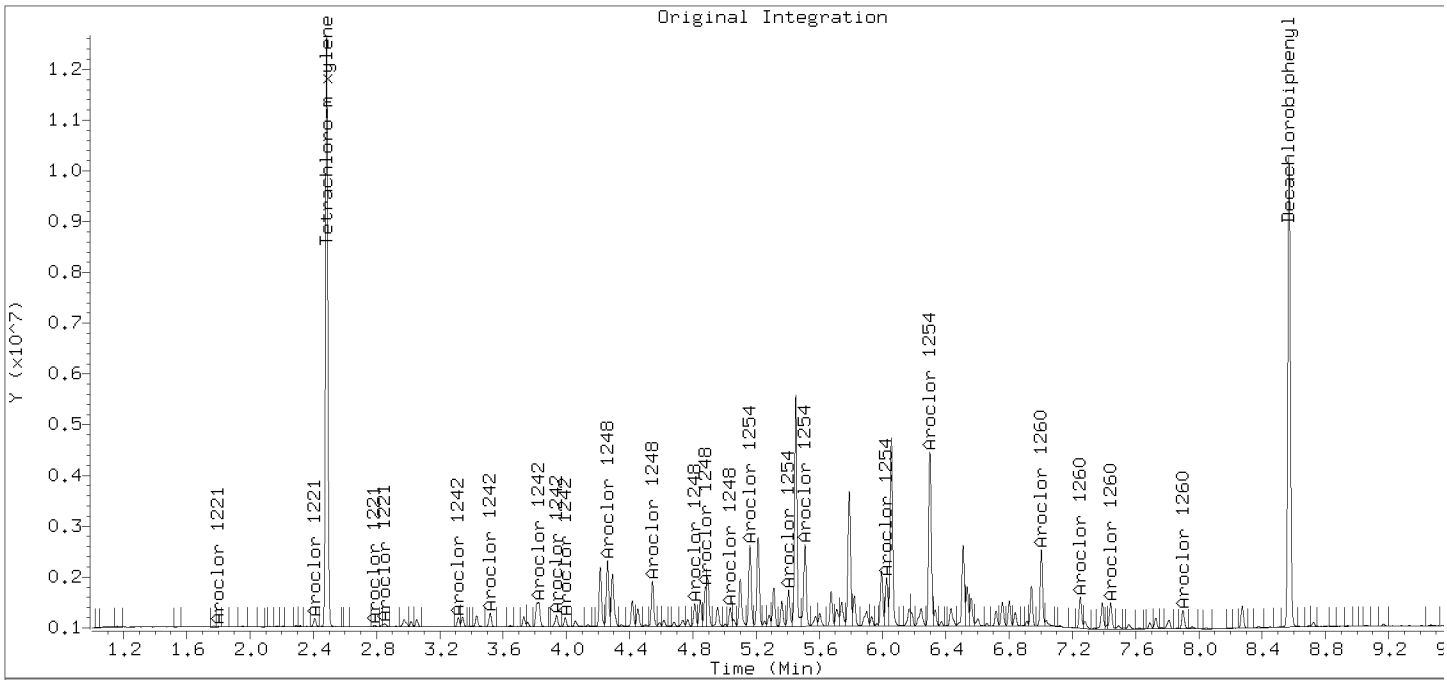
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

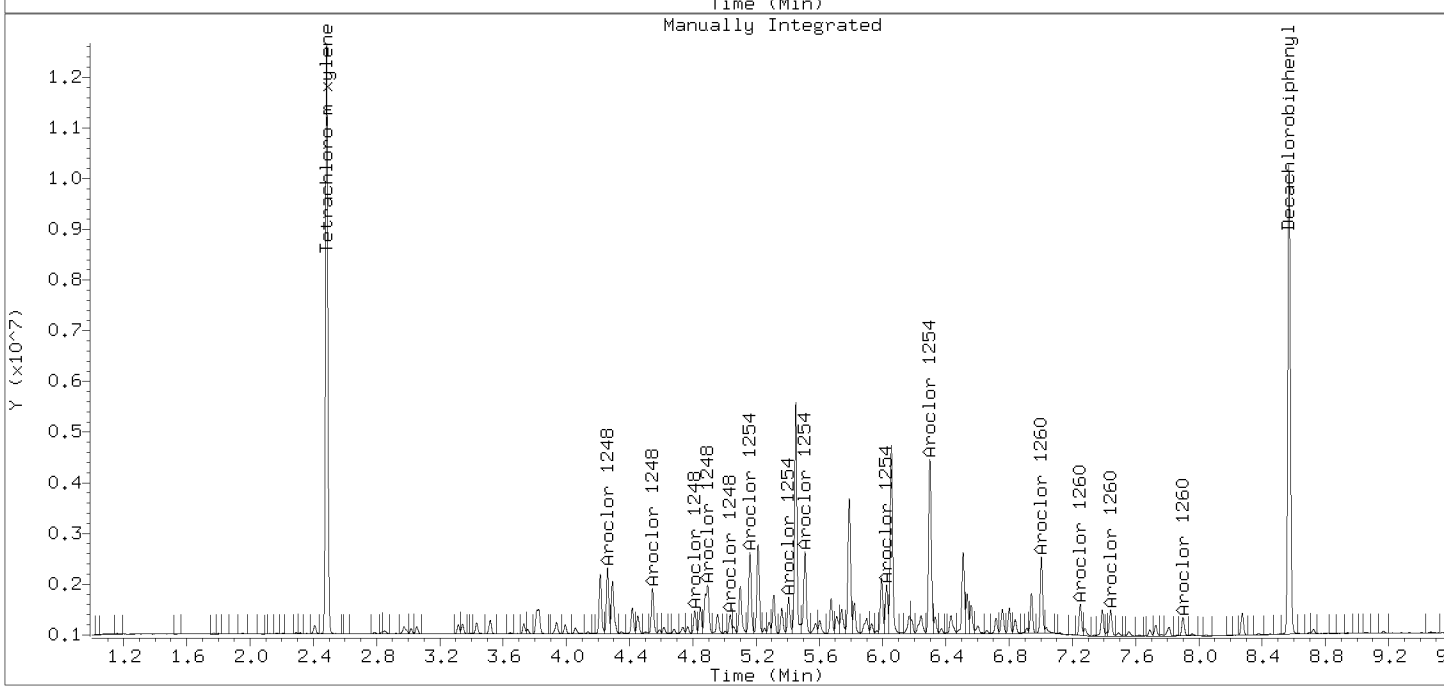
Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518031.D
Date : 15-MAR-2018 20:58
Client ID: AT1-170519-01-STB-0
Sample Info: 40150340018,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 20:58 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340018





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	181101	0	
Aroclor 1016	181101	0	
Aroclor 1016	181101	0	
Aroclor 1016	181101	0	
Aroclor 1016	181101	0	
Aroclor 1221	16307	0	
Aroclor 1221	16307	0	
Aroclor 1221	16307	0	
Aroclor 1221	16307	0	
Aroclor 1221	16307	0	
Aroclor 1232	79357	0	
Aroclor 1232	79357	0	
Aroclor 1232	79357	0	
Aroclor 1232	79357	0	

Aroclor 1232	79357	0	
Aroclor 1242	181101	0	
Aroclor 1242	181101	0	
Aroclor 1242	181101	0	
Aroclor 1242	181101	0	
Aroclor 1242	181101	0	
Aroclor 1248	1335369	1347421	BA
Aroclor 1248	1335369	1347421	BA
Aroclor 1248	1335369	1347421	BA
Aroclor 1248	1335369	1347421	BA
Aroclor 1248	1335369	1347421	BA
Aroclor 1254	1810187	1821368	BA
Aroclor 1254	1810187	1821368	BA
Aroclor 1254	1810187	1821368	BA
Aroclor 1254	1810187	1821368	BA
Aroclor 1254	1810187	1821368	BA
Aroclor 1260	4164226	0	BA
Aroclor 1260	4164226	0	BA
Aroclor 1260	4164226	0	BA
Aroclor 1260	4164226	0	BA
Aroclor 1260	4164226	0	BA
Tetrachloro-m-xylene	11748887	11748887	
Decachlorobiphenyl	10683322	10683322	

==========

SAMPLE NO.

AT1-170519-01-STB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340019
Date Analyzed: 03/15/2018 21:14
Lab File ID: 031518.B\031518032.D
Initial wt/vol: 10.0027 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)	50.1	
11097-69-1	PCB-1254 (Aroclor 1254)	55.5	
11096-82-5	PCB-1260 (Aroclor 1260)	98.3	
1336-36-3	PCB, Total	204	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518032.D
Lab Smp Id: 40150340019 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 15-MAR-2018 21:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340019,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	10.003	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.076	20746	17003	0.820	0.03		
1.109	22156	14105	0.637	0.03		
1.157	17770	12131	0.683	0.03		
1.423	15350	9831	0.640	0.02		
1.538	13274	10361	0.781	0.02		
1.686	9842	7928	0.806	0.01		
1.772	13553	12577	0.928	0.02		
1.800	13336	10969	0.823	0.02		
1.827	9701	7475	0.771	0.01		
1.949	17420	13776	0.791	0.02		
2.006	11941	7237	0.606	0.02		
2.292	32644	22486	0.689	0.05		
2.408	115718	101193	0.874	0.19		
2.483	11405442	11420654	1.001	20.02	$ 2 Tetrachloro-m-xylene	
2.789	27250	23383	0.858	0.04		
2.851	77448	38732	0.500	0.13		
2.914	18193	12286	0.675	0.03		
2.973	150946	104906	0.695	0.25		
3.018	53375	54262	1.017	0.09		
3.053	79419	66285	0.835	0.13		
3.165	10898	6544	0.600	0.01		
3.246	10094	6856	0.679	0.01		
3.317	67742	66831	0.987	0.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.343	73717	64803	0.879	0.12	
3.401	27226	20031	0.736	0.04	
3.432	92675	78627	0.848	0.15	
3.517	110409	95702	0.867	0.18	
3.731	61416	62347	1.015	0.10	
3.758	33175	27883	0.840	0.05	
3.819	280187	168693	0.602	0.47	
3.937	131625	81933	0.622	0.22	
3.991	96581	69278	0.717	0.16	
4.057	71405	44755	0.627	0.12	
4.135	21441	19620	0.915	0.03	
4.214	394352	363222	0.921	0.66	
4.261	393572	375866	0.955	0.66	6 Aroclor 1248
4.292	337810	266953	0.790	0.57	
4.348	42457	26165	0.616	0.07	
4.417	208398	183808	0.882	0.35	
4.452	138348	119394	0.863	0.23	
4.498	35154	20751	0.590	0.05	
4.544	310801	269266	0.866	0.52	6 Aroclor 1248
4.586	28289	29602	1.046	0.04	
4.616	60377	46579	0.771	0.10	
4.655	20313	18670	0.919	0.03	
4.678	38831	33010	0.850	0.06	
4.737	76792	58102	0.757	0.13	
4.766	63548	53226	0.838	0.10	
4.812	178154	160943	0.903	0.30	6 Aroclor 1248
4.847	221759	206933	0.933	0.37	
4.893	632470	351067	0.555	1.07	6 Aroclor 1248
4.957	195940	149332	0.762	0.33	
5.003	32546	29178	0.897	0.05	
5.036	161611	153603	0.950	0.27	6 Aroclor 1248
5.064	194448	130110	0.669	0.32	
5.098	637083	406367	0.638	1.07	
5.161	875188	756539	0.864	1.48	7 Aroclor 1254
5.212	957647	844307	0.882	1.62	
5.253	112074	101550	0.906	0.18	
5.281	130621	104607	0.801	0.22	
5.311	466007	434000	0.931	0.78	
5.362	272319	230507	0.846	0.46	
5.405	325243	280345	0.862	0.55	7 Aroclor 1254
5.451	2694366	2662593	0.988	4.56	
5.508	802427	639562	0.797	1.35	7 Aroclor 1254
5.577	171527	128439	0.749	0.29	
5.603	157465	108079	0.686	0.26	
5.674	393342	356212	0.906	0.66	
5.708	238630	171004	0.717	0.40	
5.741	315858	231621	0.733	0.53	
5.788	1624493	1346154	0.829	2.75	
5.821	437799	364084	0.832	0.74	
5.899	299534	190117	0.635	0.50	
5.931	129450	108817	0.841	0.21	
5.963	40435	40861	1.011	0.06	
5.992	750020	714352	0.952	1.27	
6.026	477439	409113	0.857	0.80	7 Aroclor 1254
6.055	2812986	2538731	0.903	4.76	
6.120	63643	45952	0.722	0.10	
6.168	270121	215971	0.800	0.45	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.183	214051	202747	0.947	0.36	
6.242	368312	213664	0.580	0.62	
6.298	2423351	2049196	0.846	4.10	8 Aroclor 1260
6.331	191889	183669	0.957	0.32	
6.370	55995	49582	0.885	0.09	
6.402	10693	13993	1.309	0.01	
6.431	370764	277391	0.748	0.62	
6.482	54918	59944	1.092	0.09	
6.508	1517636	1378499	0.908	2.57	
6.534	357070	368160	1.031	0.60	
6.561	532471	484954	0.911	0.90	
6.602	159143	113741	0.715	0.26	
6.658	58438	46968	0.804	0.09	
6.718	237760	216957	0.913	0.40	
6.757	419531	362965	0.865	0.71	
6.801	362989	334050	0.920	0.61	
6.837	340091	295332	0.868	0.57	
6.886	14918	20097	1.347	0.02	
6.912	139686	133950	0.959	0.23	
6.941	518458	513265	0.990	0.87	
7.003	1488394	1346030	0.904	2.52	8 Aroclor 1260
7.034	147437	107517	0.729	0.24	
7.073	28167	21905	0.778	0.04	
7.120	26148	24002	0.918	0.04	
7.164	14511	9140	0.630	0.02	
7.250	563196	478125	0.849	0.95	8 Aroclor 1260
7.281	165324	132065	0.799	0.27	
7.338	22910	19764	0.863	0.03	
7.388	715964	616841	0.862	1.21	
7.419	45596	63517	1.393	0.07	
7.441	689552	607630	0.881	1.16	8 Aroclor 1260
7.491	110675	86371	0.780	0.18	
7.529	49107	38027	0.774	0.08	
7.557	101442	77534	0.764	0.17	
7.625	42346	24093	0.569	0.07	
7.688	152226	134511	0.884	0.25	
7.726	456333	403605	0.884	0.77	
7.761	47060	39187	0.833	0.07	
7.806	304776	176491	0.579	0.51	
7.861	38662	32034	0.829	0.06	
7.898	545980	454696	0.833	0.92	8 Aroclor 1260
7.956	90664	46954	0.518	0.15	
8.048	36705	27438	0.748	0.06	
8.102	12012	10933	0.910	0.02	
8.192	29304	19140	0.653	0.04	
8.273	921394	842631	0.915	1.56	
8.312	9381	9370	0.999	0.01	
8.375	57461	41878	0.729	0.09	
8.450	33805	18640	0.551	0.05	
8.570	10783261	9679421	0.898	18.26	$ 12 Decachlorobiphenyl
8.701	50474	45517	0.902	0.08	
8.725	127718	111171	0.870	0.21	
8.835	17588	12584	0.715	0.02	
8.941	30974	21920	0.708	0.05	
8.992	19226	17374	0.904	0.03	
9.053	22923	19962	0.871	0.03	
9.167	63195	54589	0.864	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.326	15040	14312	0.952	0.02	
9.406	9782	9464	0.968	0.01	
9.467	53530	31639	0.591	0.09	
9.538	31274	15652	0.500	0.05	
9.698	20706	21672	1.047	0.03	
9.735	45080	36503	0.810	0.07	
9.961	28629	19007	0.664	0.04	
	59049894	52597127		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518032.D
Lab Smp Id: 40150340019 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 15-MAR-2018 21:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340019,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	10.003	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.483	2.484	-0.001	11405442	0.09251	46			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	393572	0.16798	84	0.00- 20.00	100.00(M)	BA
4.543	4.546	-0.003	310801	0.07489	37	0.00- 20.00	78.97	BA
4.812	4.812	0.000	178154	0.08776	44	0.00- 20.00	45.27	BA
4.893	4.879	0.014	632469	0.12555	63	0.00- 20.00	160.70	BA
5.036	5.038	-0.002	161610	0.04503	22	0.00- 20.00	41.06	BA
Average of Peak Concentrations =					50			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	875187	0.16717	84	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	325242	0.07562	38	0.00- 20.00	37.16	BA
5.508	5.510	-0.002	802427	0.10332	52	0.00- 20.00	91.69	BA
6.025	6.027	-0.002	477439	0.09804	49	0.00- 20.00	54.55	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					56			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	2423350	0.27344	140	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	1488393	0.14863	74	0.00- 20.00	61.42	BA
7.250	7.251	-0.001	563195	0.11783	59	0.00- 20.00	23.24	BA
7.440	7.443	-0.003	689552	0.23654	120	0.00- 20.00	28.45	BA
7.898	7.901	-0.003	545980	0.20691	100	0.00- 20.00	22.53	BA
Average of Peak Concentrations =					98			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10783261	0.09842	49			

QC Flag Legend

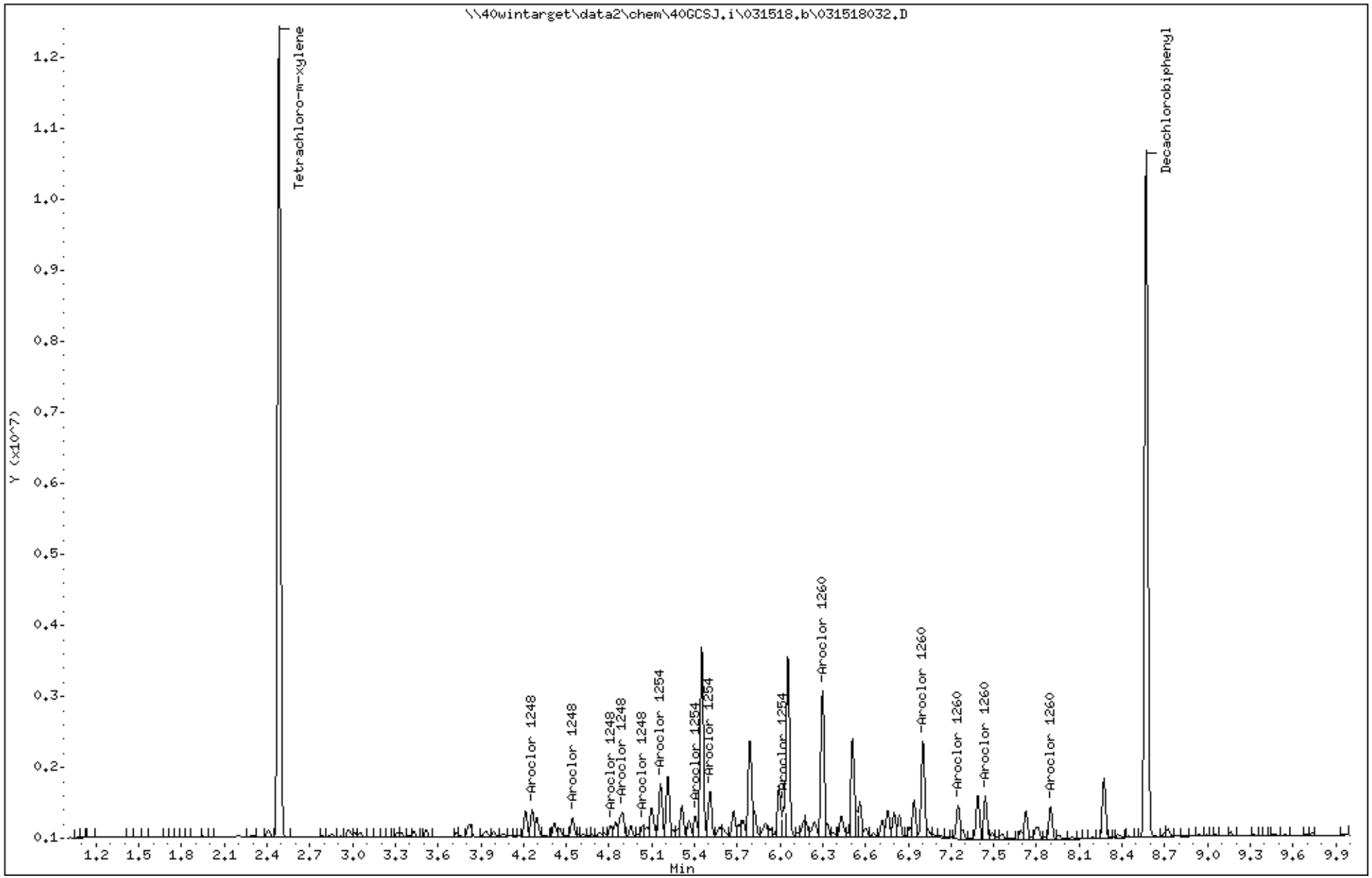
M - Compound response manually integrated.

Review Codes Legend

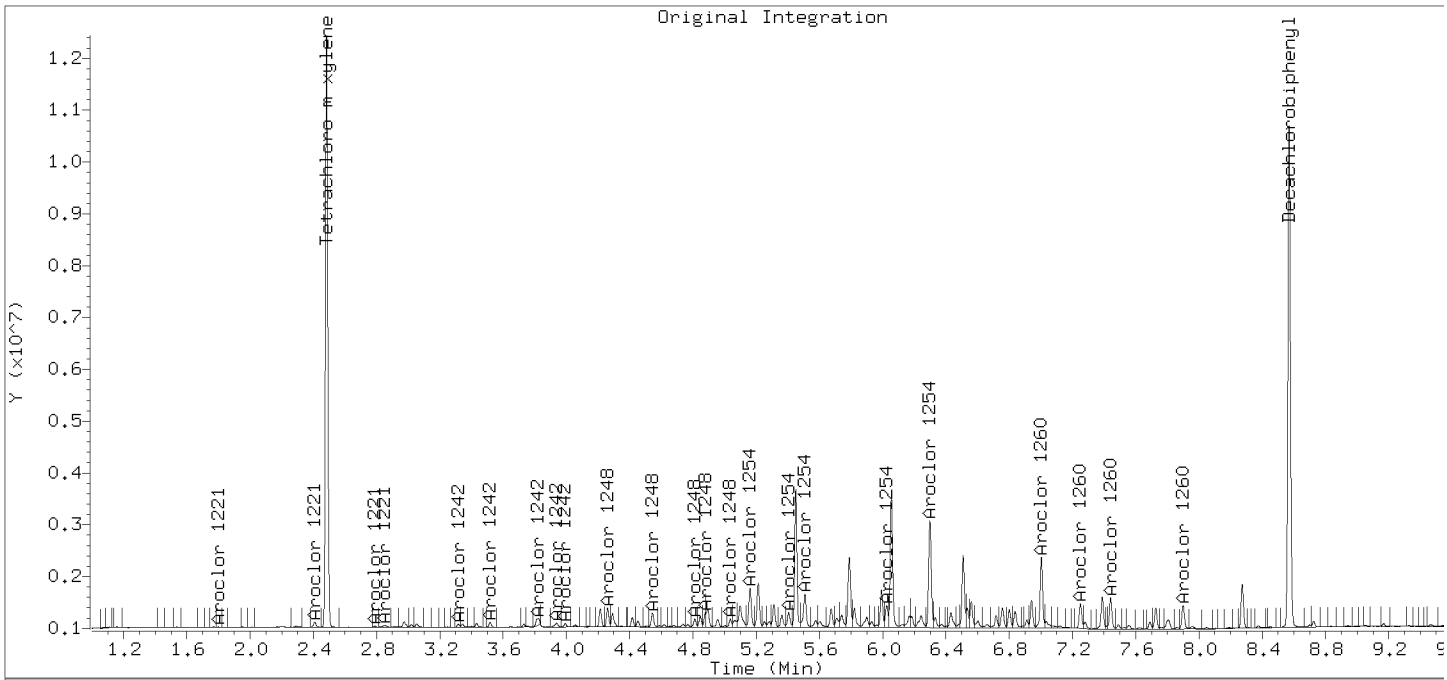
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

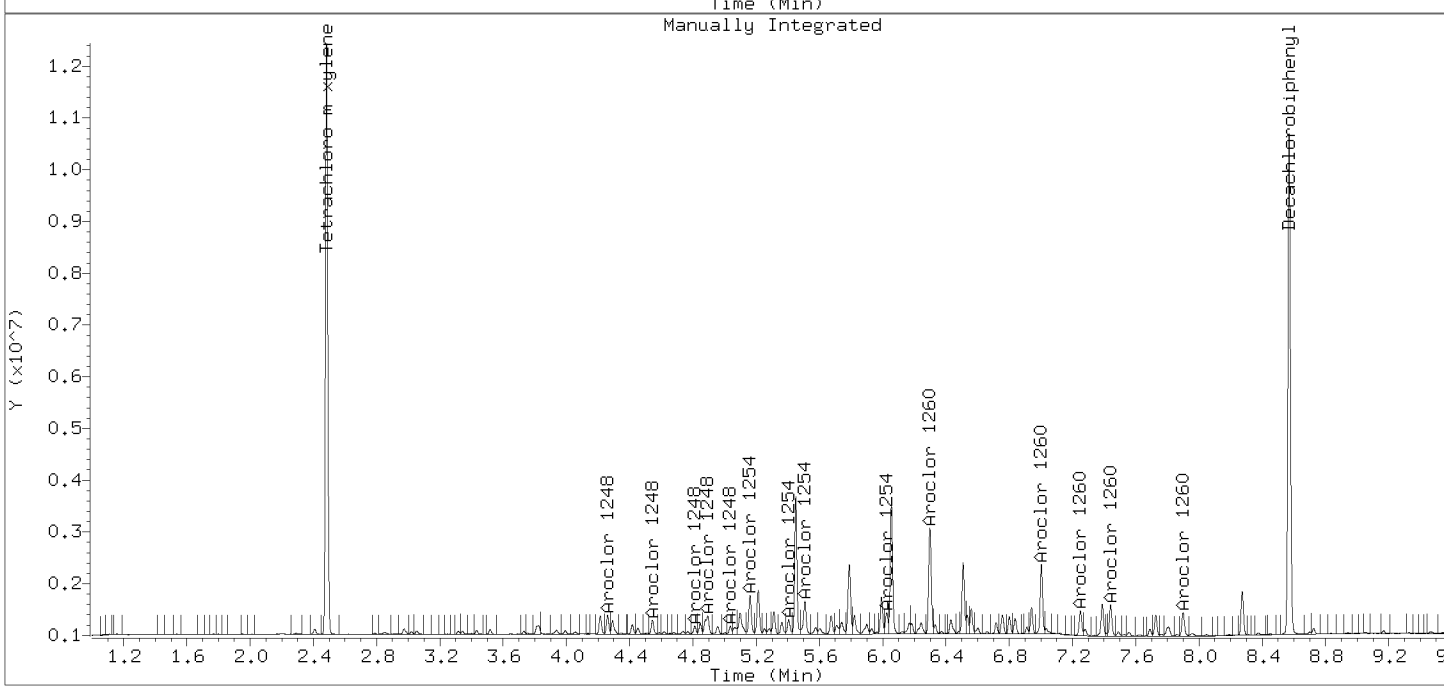
Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518032.D
Date : 15-MAR-2018 21:14
Client ID: AT1-170519-01-STB-0
Sample Info: 40150340019,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 21:14 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340019





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	67741	0	
Aroclor 1016	67741	0	
Aroclor 1016	67741	0	
Aroclor 1016	67741	0	
Aroclor 1016	67741	0	
Aroclor 1221	13336	0	
Aroclor 1221	13336	0	
Aroclor 1221	13336	0	
Aroclor 1221	13336	0	
Aroclor 1221	13336	0	
Aroclor 1232	77448	0	
Aroclor 1232	77448	0	
Aroclor 1232	77448	0	
Aroclor 1232	77448	0	

Aroclor 1232	77448	0	
Aroclor 1242	67741	0	
Aroclor 1242	67741	0	
Aroclor 1242	67741	0	
Aroclor 1242	67741	0	
Aroclor 1242	67741	0	
Aroclor 1248	380415	393572	BA
Aroclor 1248	380415	393572	BA
Aroclor 1248	380415	393572	BA
Aroclor 1248	380415	393572	BA
Aroclor 1248	380415	393572	BA
Aroclor 1254	883157	875187	BA
Aroclor 1254	883157	875187	BA
Aroclor 1254	883157	875187	BA
Aroclor 1254	883157	875187	BA
Aroclor 1254	883157	875187	BA
Aroclor 1260	2462792	2423350	BA
Aroclor 1260	2462792	2423350	BA
Aroclor 1260	2462792	2423350	BA
Aroclor 1260	2462792	2423350	BA
Aroclor 1260	2462792	2423350	BA
Tetrachloro-m-xylene	11405442	11405442	
Decachlorobiphenyl	10783261	10783261	

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SAMPLE NO.

AT1-170519-01-STB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 40150340020
Date Analyzed: 03/20/2018 17:32
Lab File ID: 032018.B\032018020.D
Initial wt/vol: 10.0048 Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.6	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.6	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	545	
11097-69-1	PCB-1254 (Aroclor 1254)	550	
11096-82-5	PCB-1260 (Aroclor 1260)	498	
1336-36-3	PCB, Total	1590	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018020.D
Lab Smp Id: 40150340020 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 20-MAR-2018 17:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340020 x4,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.005	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.771	9533	9340	0.980	0.01		
1.802	9626	8107	0.842	0.01		
2.409	106784	85564	0.801	0.16		
2.484	2863160	2752727	0.961	4.54	$ 2 Tetrachloro-m-xylene	
2.789	20234	16589	0.820	0.03		
2.849	47645	32523	0.683	0.07		
2.973	87226	54627	0.626	0.13		
3.019	45458	43338	0.953	0.07		
3.054	98865	86164	0.872	0.15		
3.317	147826	142632	0.965	0.23		
3.344	159517	151393	0.949	0.25		
3.434	138003	122121	0.885	0.21		
3.519	202719	176202	0.869	0.32		
3.643	13818	13176	0.954	0.02		
3.732	142377	141795	0.996	0.22		
3.756	76695	71792	0.936	0.12		
3.826	767960	454206	0.591	1.21		
3.938	182131	137593	0.755	0.28		
3.994	145495	129975	0.893	0.23		
4.058	94751	74551	0.787	0.15		
4.135	32082	28910	0.901	0.05		
4.215	980317	910552	0.929	1.55		
4.261	1075044	1028183	0.956	1.70	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	1030237	830445	0.806	1.63	
4.347	35504	30958	0.872	0.05	
4.417	508201	487741	0.960	0.80	
4.452	356679	321500	0.901	0.56	
4.496	12076	12251	1.015	0.01	
4.544	844978	781100	0.924	1.33	6 Aroclor 1248
4.590	53771	48517	0.902	0.08	
4.618	133656	115686	0.866	0.21	
4.655	15211	17495	1.150	0.02	
4.682	76382	67029	0.878	0.12	
4.737	133189	100111	0.752	0.21	
4.768	114455	106172	0.928	0.18	
4.813	500373	483800	0.967	0.79	6 Aroclor 1248
4.847	515628	483384	0.937	0.81	
4.893	1736322	936066	0.539	2.75	6 Aroclor 1248
4.956	477965	400479	0.838	0.75	
5.003	44918	42594	0.948	0.07	
5.037	392801	367015	0.934	0.62	6 Aroclor 1248
5.058	177619	180605	1.017	0.28	
5.100	1010155	763300	0.756	1.60	
5.161	1903010	1704771	0.896	3.01	7 Aroclor 1254
5.213	1832217	1610630	0.879	2.90	
5.253	366942	343346	0.936	0.58	
5.283	196918	181287	0.921	0.31	
5.311	561742	509311	0.907	0.89	
5.362	590841	540452	0.915	0.93	
5.407	874751	811875	0.928	1.38	7 Aroclor 1254
5.451	3648206	3509282	0.962	5.78	
5.478	125804	183199	1.456	0.19	
5.509	2161009	1729357	0.800	3.42	7 Aroclor 1254
5.578	162154	141169	0.871	0.25	
5.604	235427	185784	0.789	0.37	
5.675	709092	668878	0.943	1.12	
5.710	379556	275664	0.726	0.60	
5.741	560184	397726	0.710	0.88	
5.790	3428148	2709324	0.790	5.43	
5.821	925724	845466	0.913	1.46	
5.898	398996	222337	0.557	0.63	
5.930	184805	155181	0.840	0.29	
5.961	29336	30078	1.025	0.04	
5.994	958397	894757	0.934	1.51	
6.025	1240738	1085556	0.875	1.96	7 Aroclor 1254
6.055	4139346	3542854	0.856	6.56	
6.169	715887	421831	0.589	1.13	
6.241	604484	326240	0.540	0.95	
6.299	4533167	3831789	0.845	7.73	8 Aroclor 1260
6.333	499701	447408	0.895	0.79	
6.373	130784	103038	0.788	0.20	
6.432	417096	264745	0.635	0.66	
6.483	72829	70412	0.967	0.11	
6.509	1537892	1391918	0.905	2.43	
6.534	864142	814035	0.942	1.37	
6.560	712023	600244	0.843	1.12	
6.604	207362	167026	0.805	0.32	
6.660	84089	76041	0.904	0.13	
6.717	319448	280196	0.877	0.50	
6.758	441960	380878	0.862	0.70	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.801	650841	584641	0.898	1.03	
6.838	278864	223313	0.801	0.44	
6.887	31891	33673	1.056	0.05	
6.913	75618	75405	0.997	0.11	
6.941	631498	589575	0.934	1.00	
7.004	1949251	1717916	0.881	3.09	8 Aroclor 1260
7.034	142045	141168	0.994	0.22	
7.055	115729	84522	0.730	0.18	
7.102	11689	15145	1.296	0.01	
7.119	25244	19490	0.772	0.04	
7.250	788217	727431	0.923	1.24	8 Aroclor 1260
7.281	222915	180056	0.808	0.35	
7.338	16259	12996	0.799	0.02	
7.389	512434	435273	0.849	0.81	
7.442	616044	527591	0.856	0.97	8 Aroclor 1260
7.497	52843	33534	0.635	0.08	
7.530	21738	16455	0.757	0.03	
7.555	67214	45100	0.671	0.10	
7.619	25036	16352	0.653	0.03	
7.689	134568	121345	0.902	0.21	
7.726	142114	122041	0.859	0.22	
7.764	40367	33007	0.818	0.06	
7.811	181109	121668	0.672	0.28	
7.859	16776	13816	0.824	0.02	
7.898	430574	367719	0.854	0.68	8 Aroclor 1260
7.961	65090	40385	0.620	0.10	
8.047	15712	15339	0.976	0.02	
8.274	335599	292029	0.870	0.53	
8.376	43624	28577	0.655	0.06	
8.451	18760	14883	0.793	0.02	
8.570	2921564	2490011	0.852	4.63	$ 12 Decachlorobiphenyl
8.724	47502	38992	0.821	0.07	
9.168	51128	43961	0.860	0.08	
9.735	10490	8180	0.780	0.01	
	63061943	53933982		100.000	

Total unknown % area = 60

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018020.D
Lab Smp Id: 40150340020 Client Smp ID: AT1-170519-01-STB-0
Inj Date : 20-MAR-2018 17:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40150340020 x4,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.005	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	2863160	0.02322	46			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1075043	0.45884	920	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	844978	0.20359	410	0.00- 20.00	78.60	BA
4.813	4.812	0.001	500373	0.24648	490	0.00- 20.00	46.54	BA
4.893	4.879	0.014	1736321	0.34468	690	0.00- 20.00	161.51	BA
5.037	5.038	-0.001	392800	0.10946	220	0.00- 20.00	36.54	BA
			Average of Peak Concentrations =		540			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1903010	0.36350	730	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	874750	0.20338	410	0.00- 20.00	45.97	BA
5.509	5.510	-0.001	2161009	0.27826	560	0.00- 20.00	113.56	BA
6.024	6.027	-0.003	1240738	0.25479	510	0.00- 20.00	65.20	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		550			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	4533167	0.51151	1000	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	1949250	0.19465	390	0.00- 20.00	43.00	CO
7.250	7.251	-0.001	788217	0.16491	330	0.00- 20.00	17.39	CO
7.442	7.443	-0.001	616044	0.21133	420	0.00- 20.00	13.59	CO
7.898	7.901	-0.003	430574	0.16317	330	0.00- 20.00	9.50	CO
			Average of Peak Concentrations =		500			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2921564	0.02667	53			

QC Flag Legend

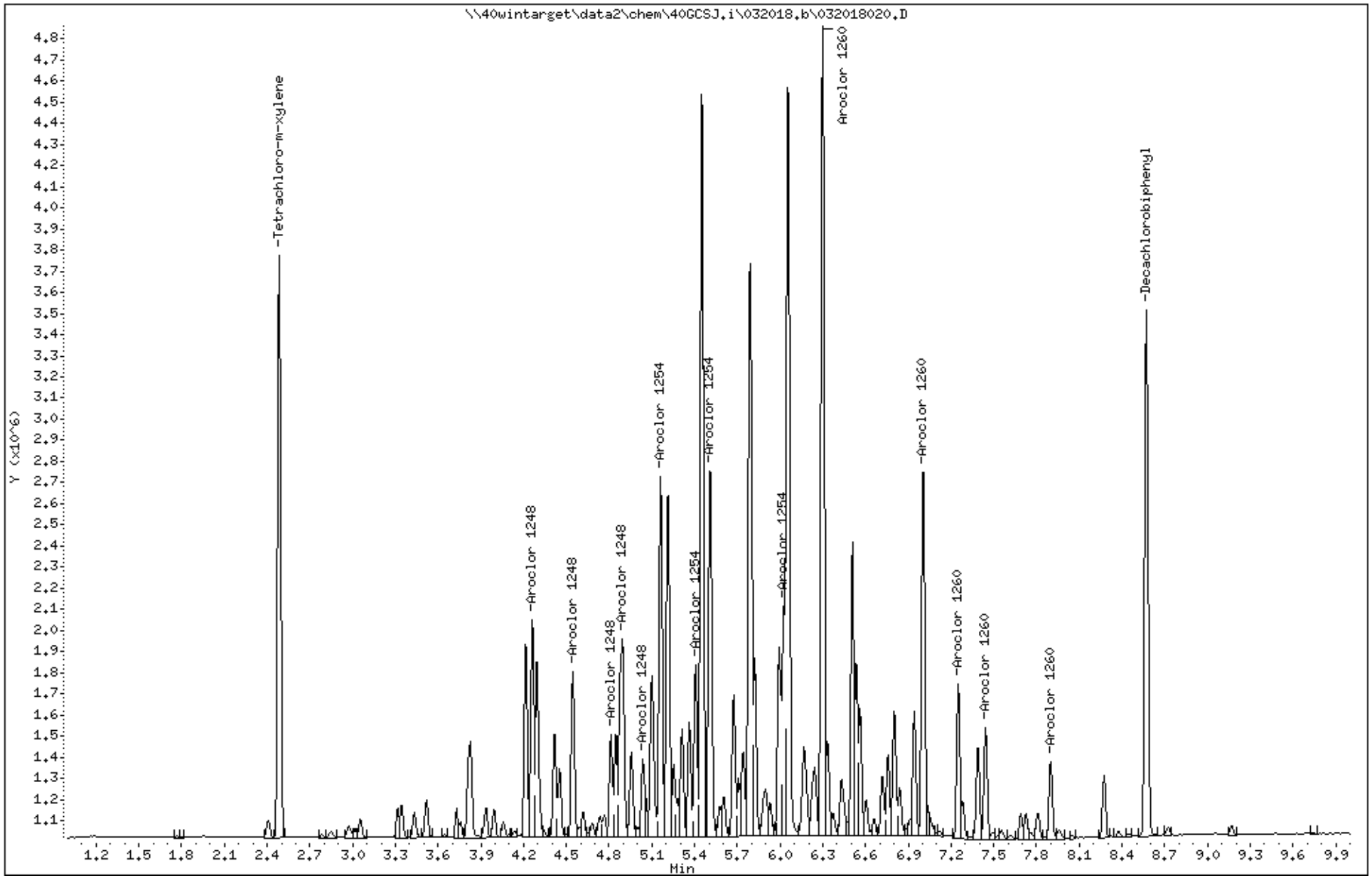
M - Compound response manually integrated.

Review Codes Legend

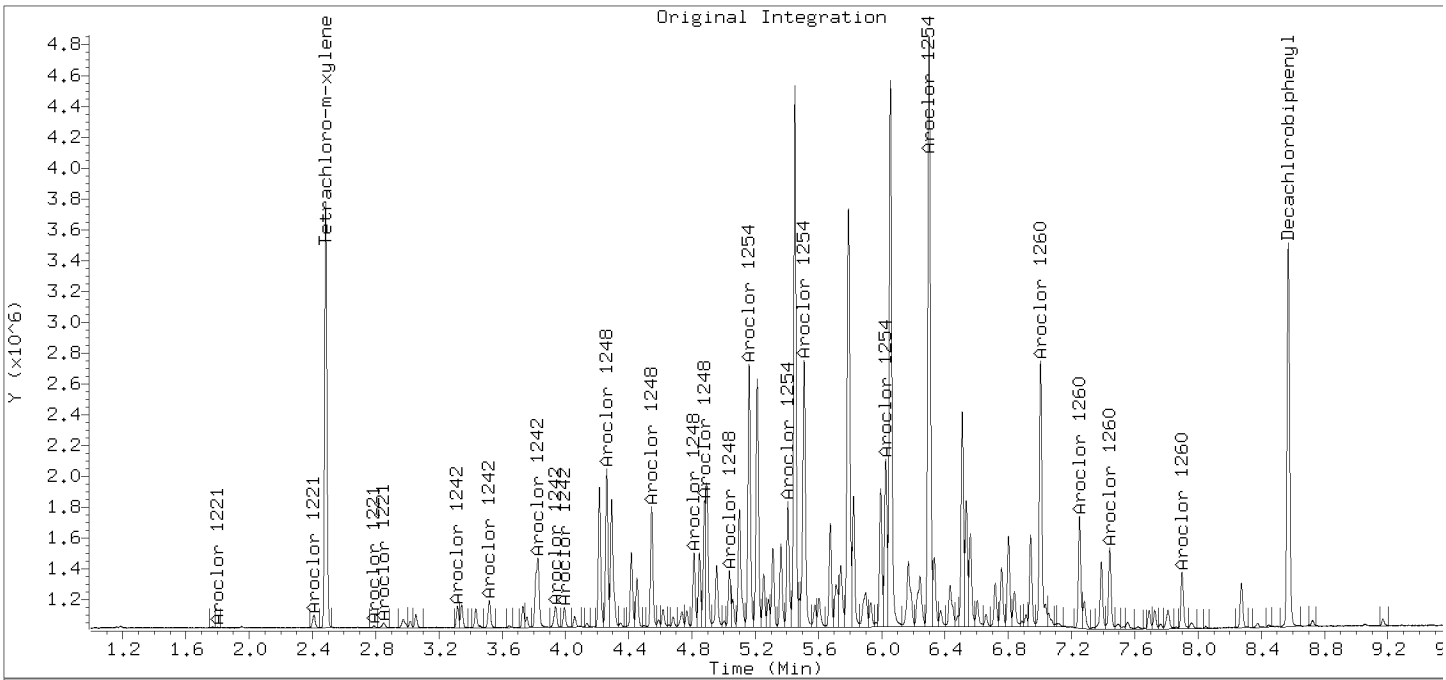
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

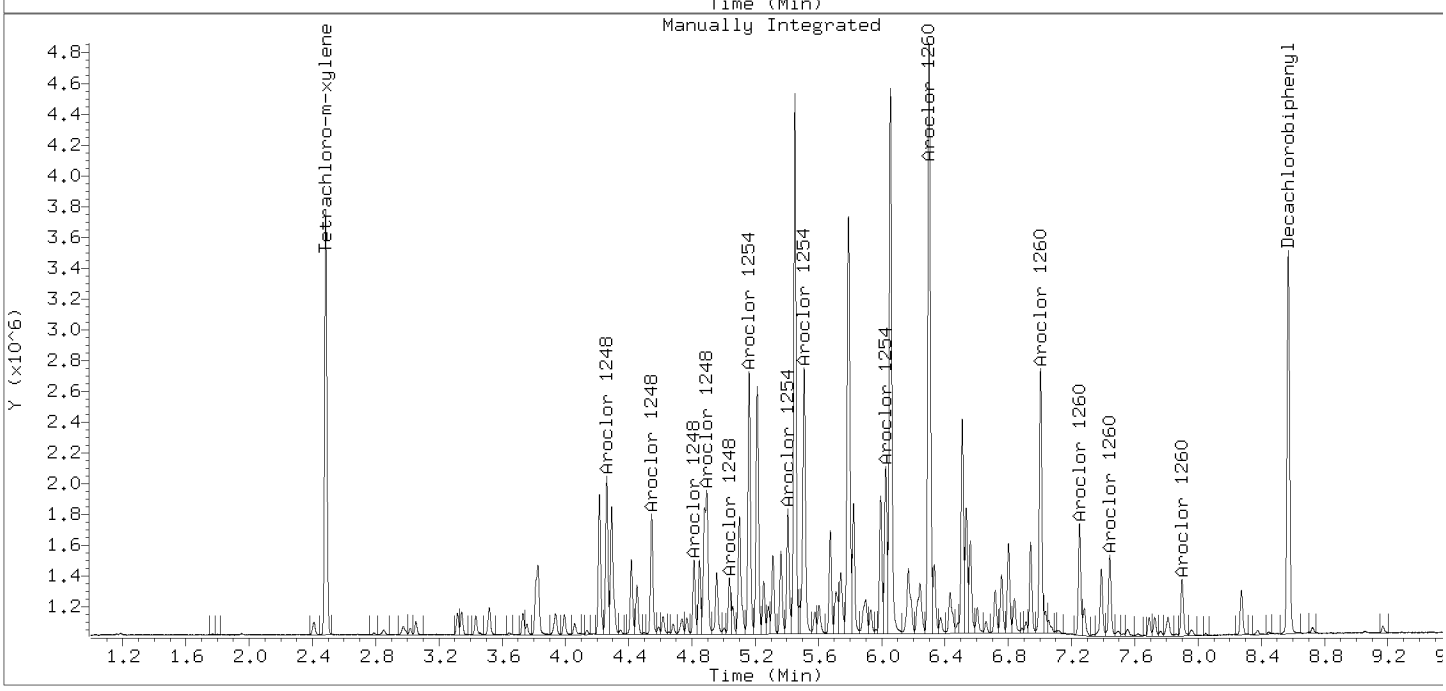
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018020.D
Date : 20-MAR-2018 17:32
Client ID: AT1-170519-01-STB-0
Sample Info: 40150340020 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 20-MAR-2018 17:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40150340020





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	147826	0	
Aroclor 1016	147826	0	
Aroclor 1016	147826	0	
Aroclor 1016	147826	0	
Aroclor 1016	147826	0	
Aroclor 1221	9625	0	
Aroclor 1221	9625	0	
Aroclor 1221	9625	0	
Aroclor 1221	9625	0	
Aroclor 1221	9625	0	
Aroclor 1232	47644	0	
Aroclor 1232	47644	0	
Aroclor 1232	47644	0	
Aroclor 1232	47644	0	

Aroclor 1232	47644	0	
Aroclor 1242	147826	0	
Aroclor 1242	147826	0	
Aroclor 1242	147826	0	
Aroclor 1242	147826	0	
Aroclor 1242	147826	0	
Aroclor 1248	1067385	1075043	BA
Aroclor 1248	1067385	1075043	BA
Aroclor 1248	1067385	1075043	BA
Aroclor 1248	1067385	1075043	BA
Aroclor 1248	1067385	1075043	BA
Aroclor 1254	1902505	1903010	BA
Aroclor 1254	1902505	1903010	BA
Aroclor 1254	1902505	1903010	BA
Aroclor 1254	1902505	1903010	BA
Aroclor 1254	1902505	1903010	BA
Aroclor 1260	4540457	4533167	CO
Aroclor 1260	4540457	4533167	CO
Aroclor 1260	4540457	4533167	CO
Aroclor 1260	4540457	4533167	CO
Aroclor 1260	4540457	4533167	CO
Tetrachloro-m-xylene	2863160	2863160	
Decachlorobiphenyl	2921564	2921564	

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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.: 40150340

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.: 40150340

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.: 40150340

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

LAB FILE ID

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

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

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

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40150340

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.: 40150340

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.: 40150340

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.: 40150340

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

LAB FILE ID

CAL3S = 030618.B\030618008.D

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

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

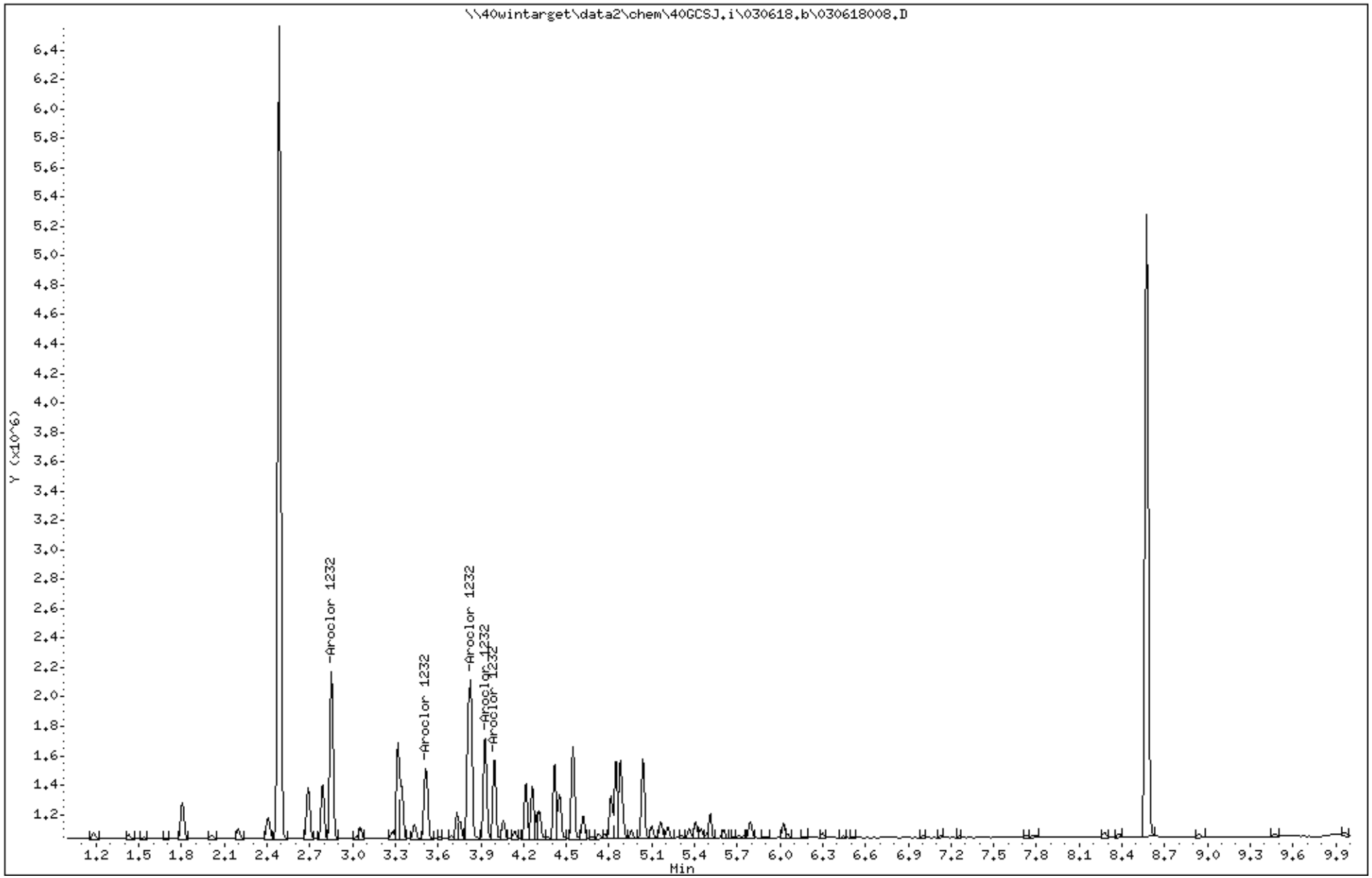
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Date : 06-MAR-2018 11:50
Client ID: 1232-CAL3S
Sample Info: 1232-CAL3S, 185539:1

Column phase: ZB-1ms

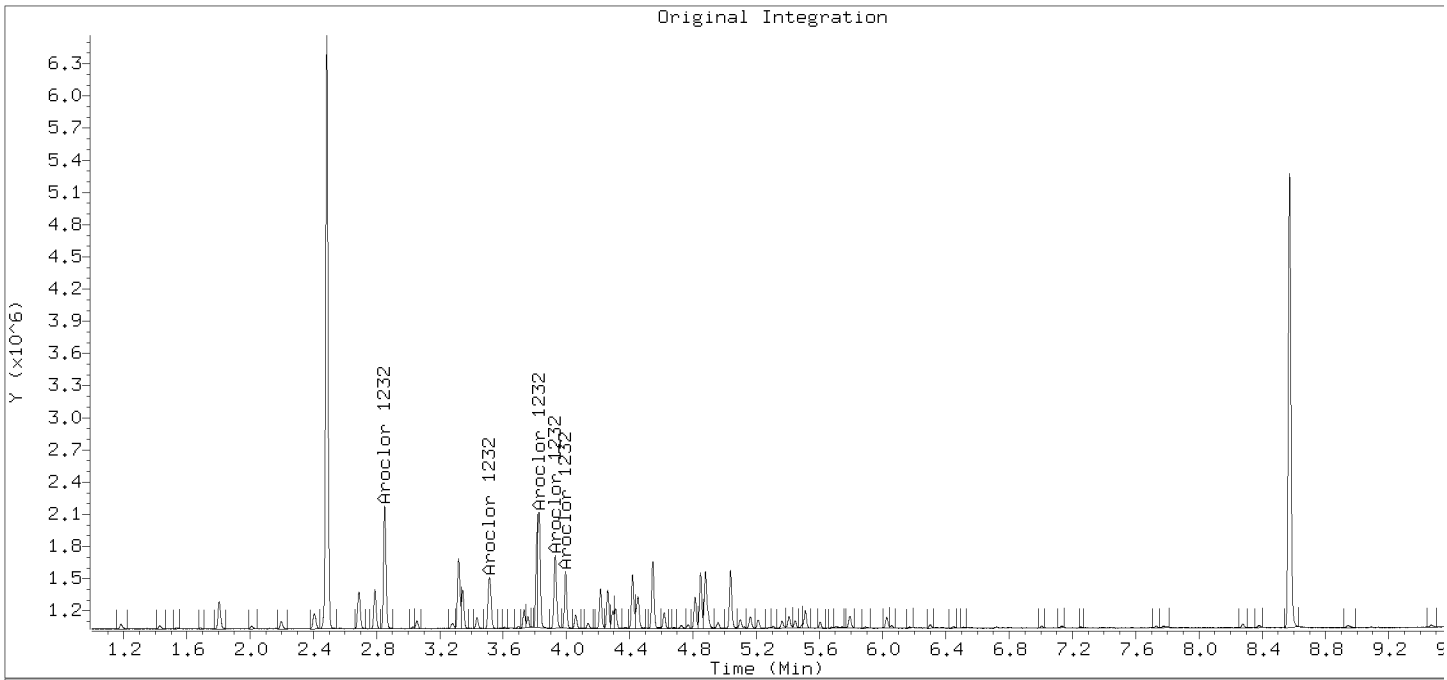
Instrument: 40GCSJ.i

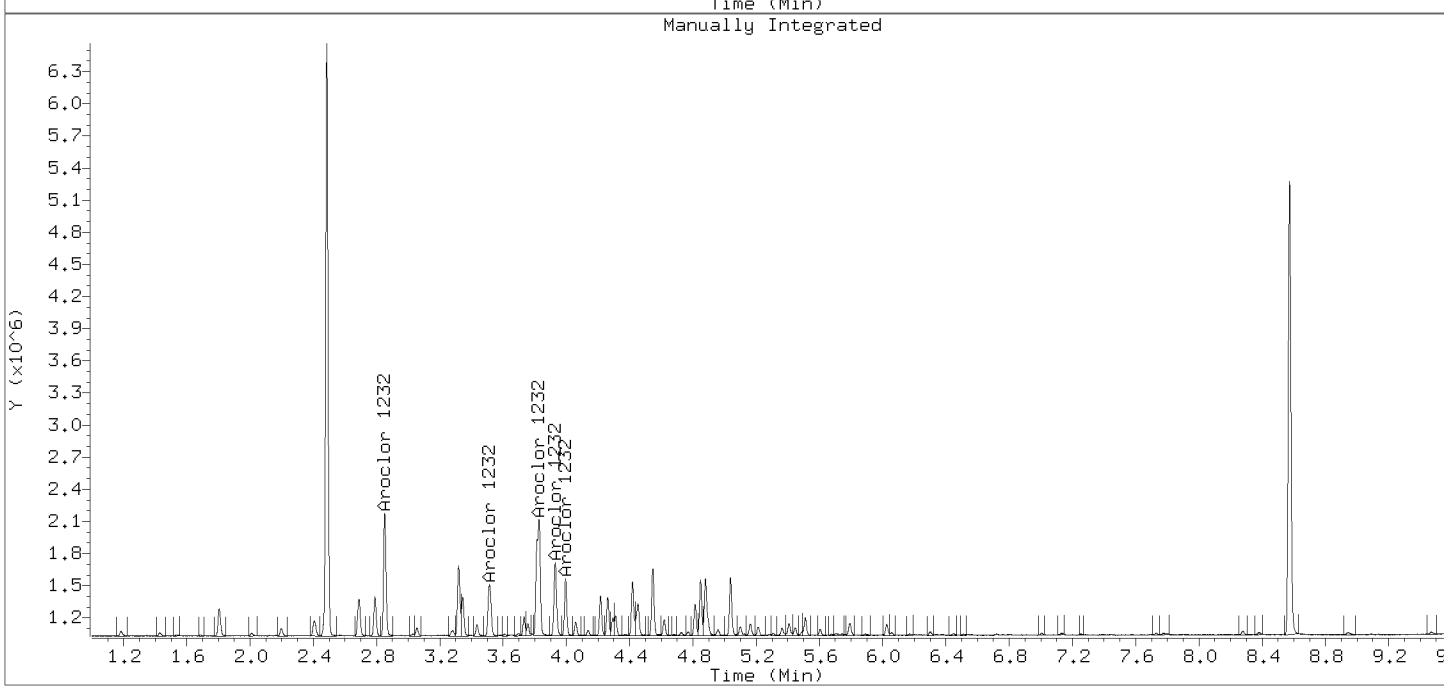
Operator: BLM

Column diameter: 0.18



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





Manually Integrated Compounds

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

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SW846-8082

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

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

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

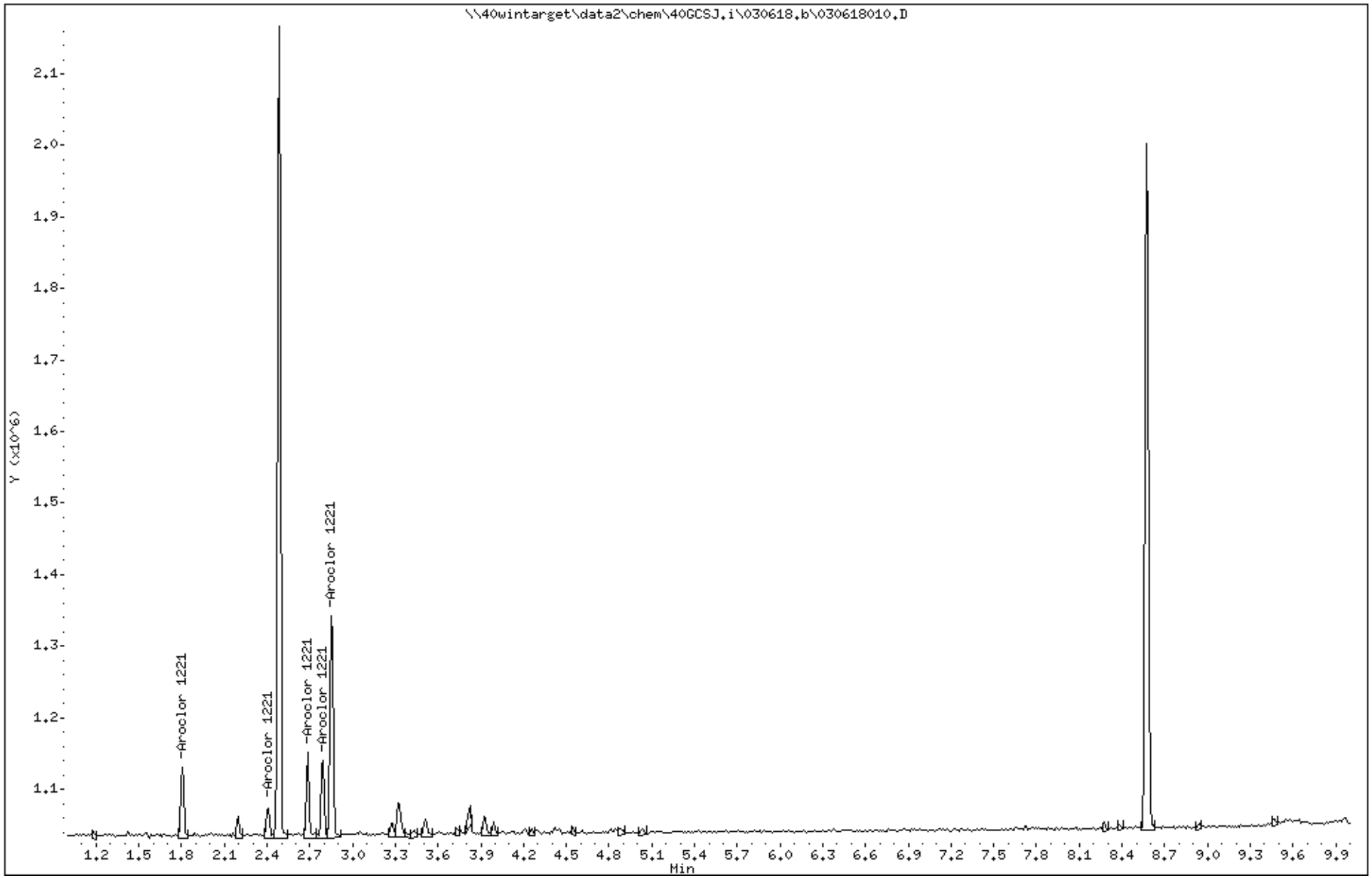
M - Compound response manually integrated.

Review Codes Legend

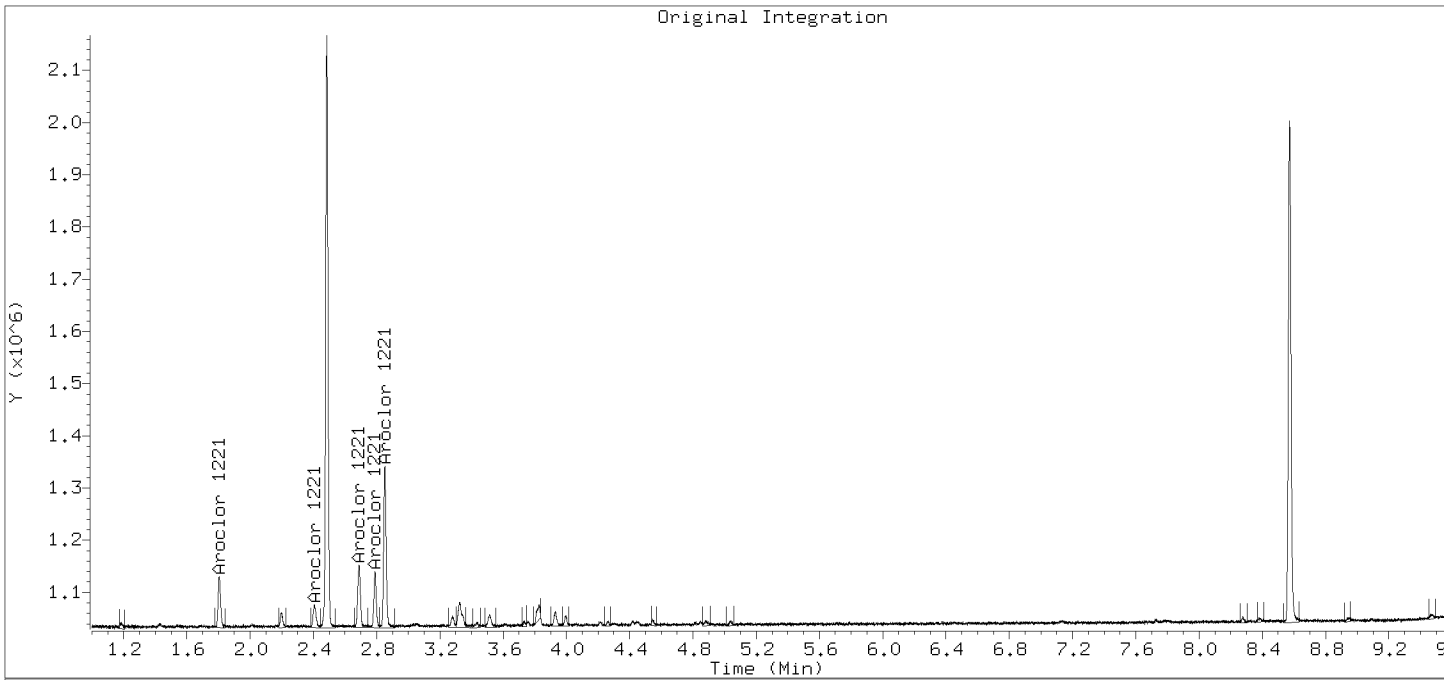
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

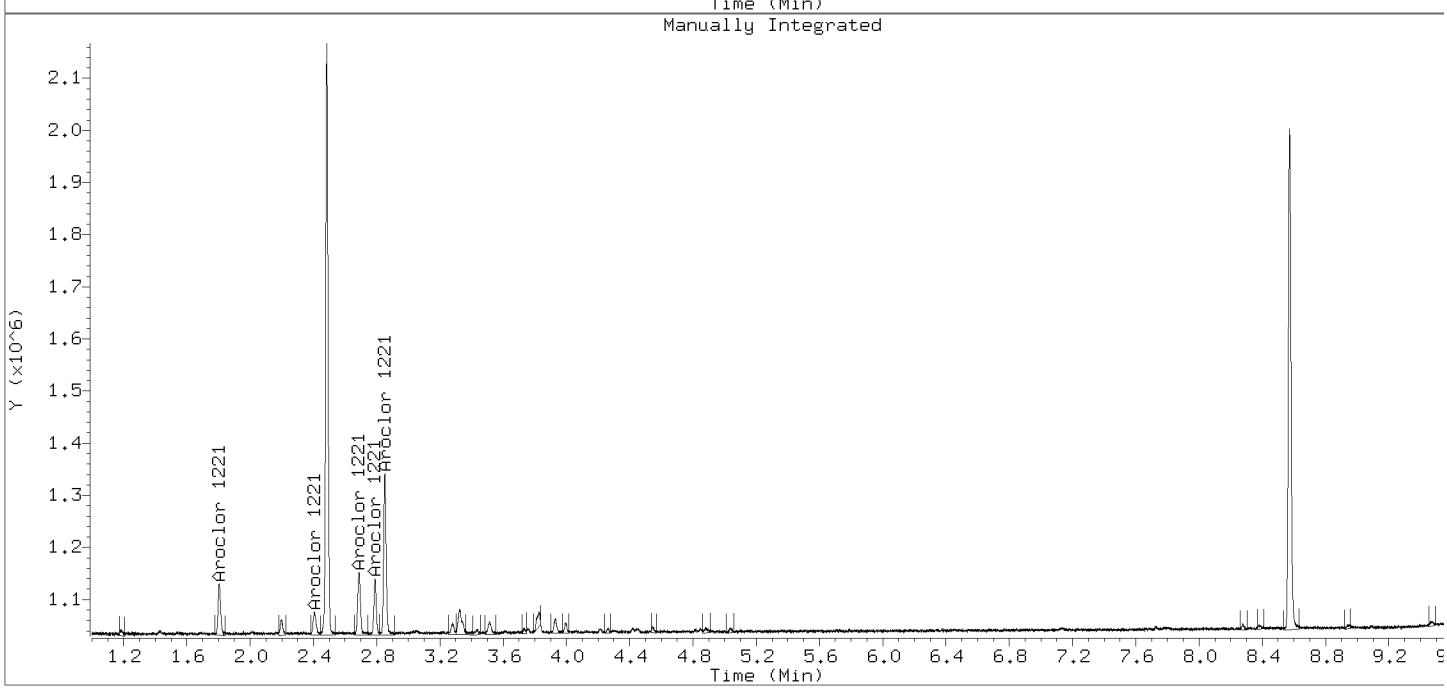
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:23

Client ID: 1221-CAL2F

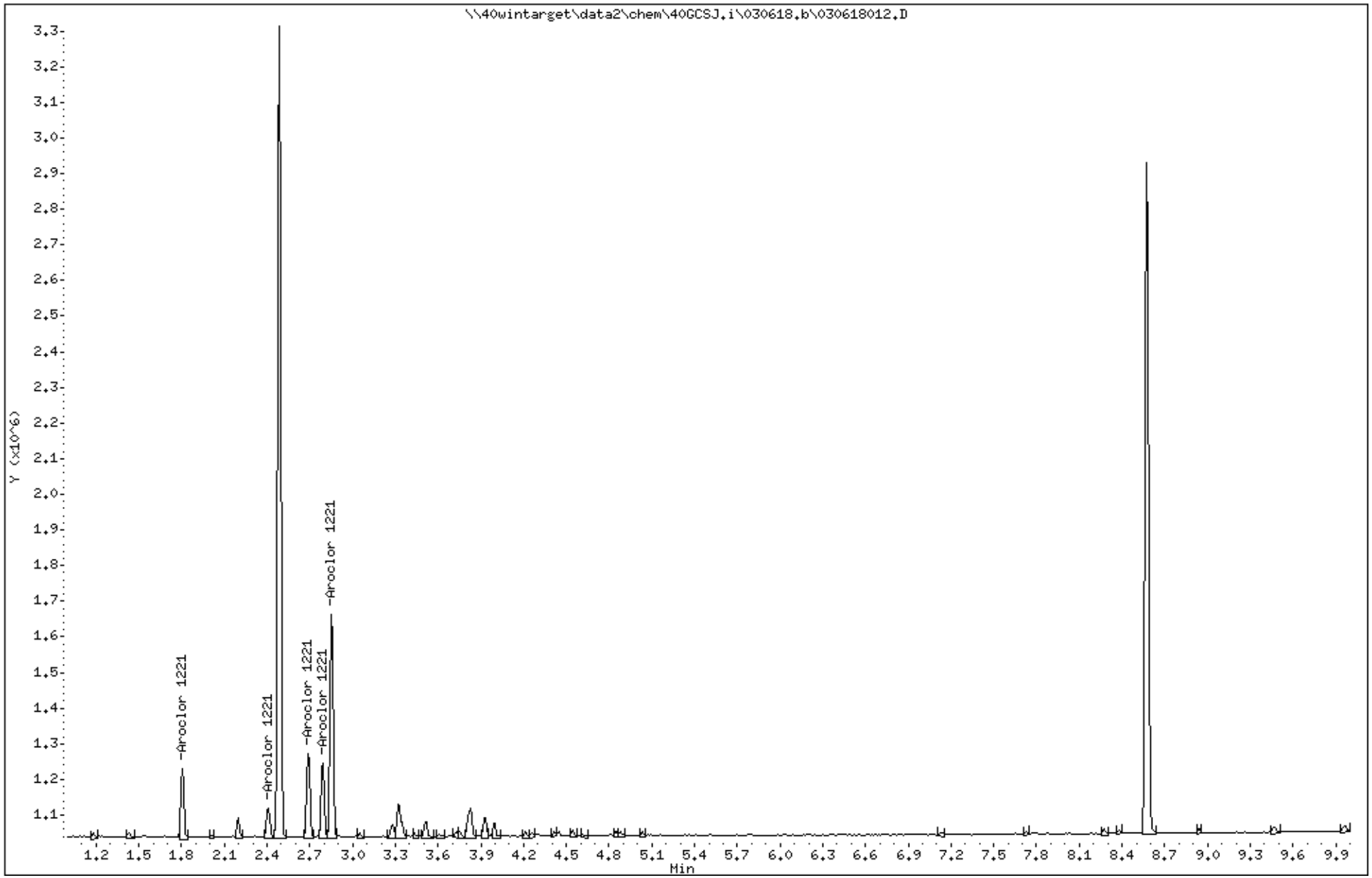
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

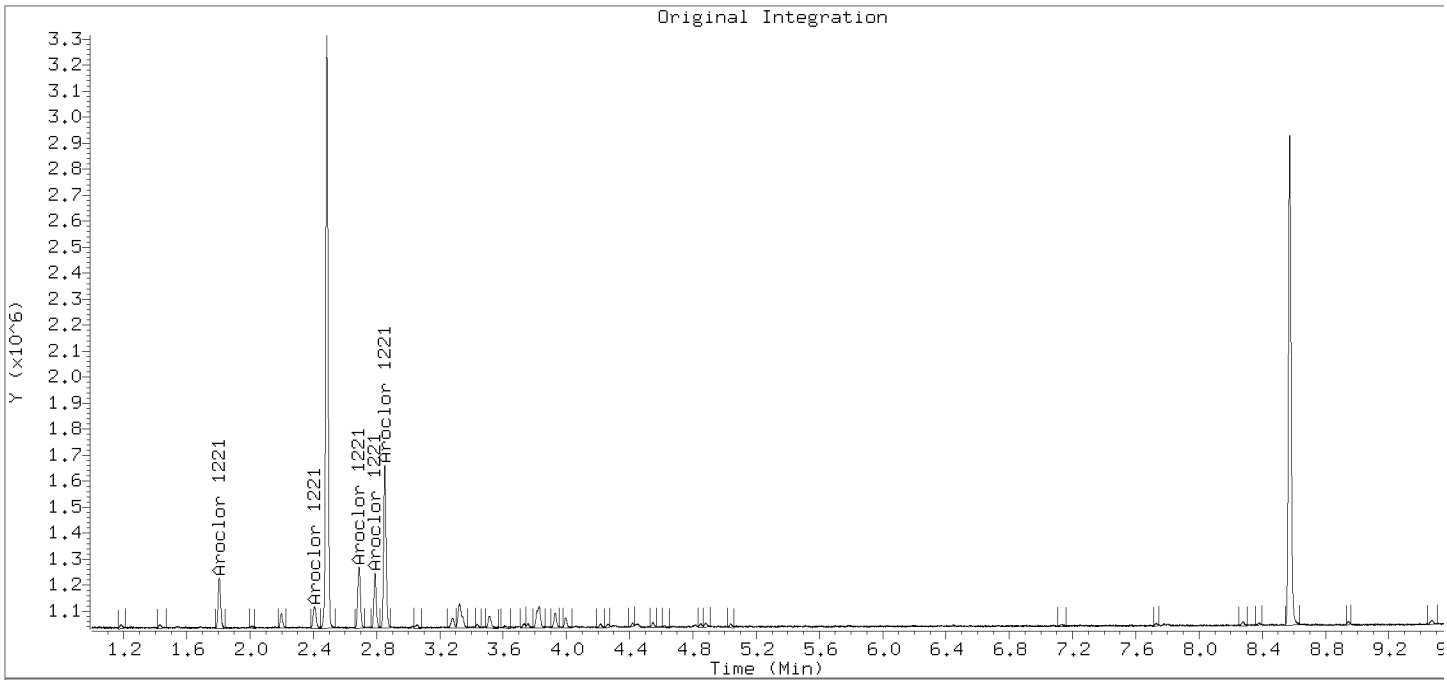
Operator: BLM

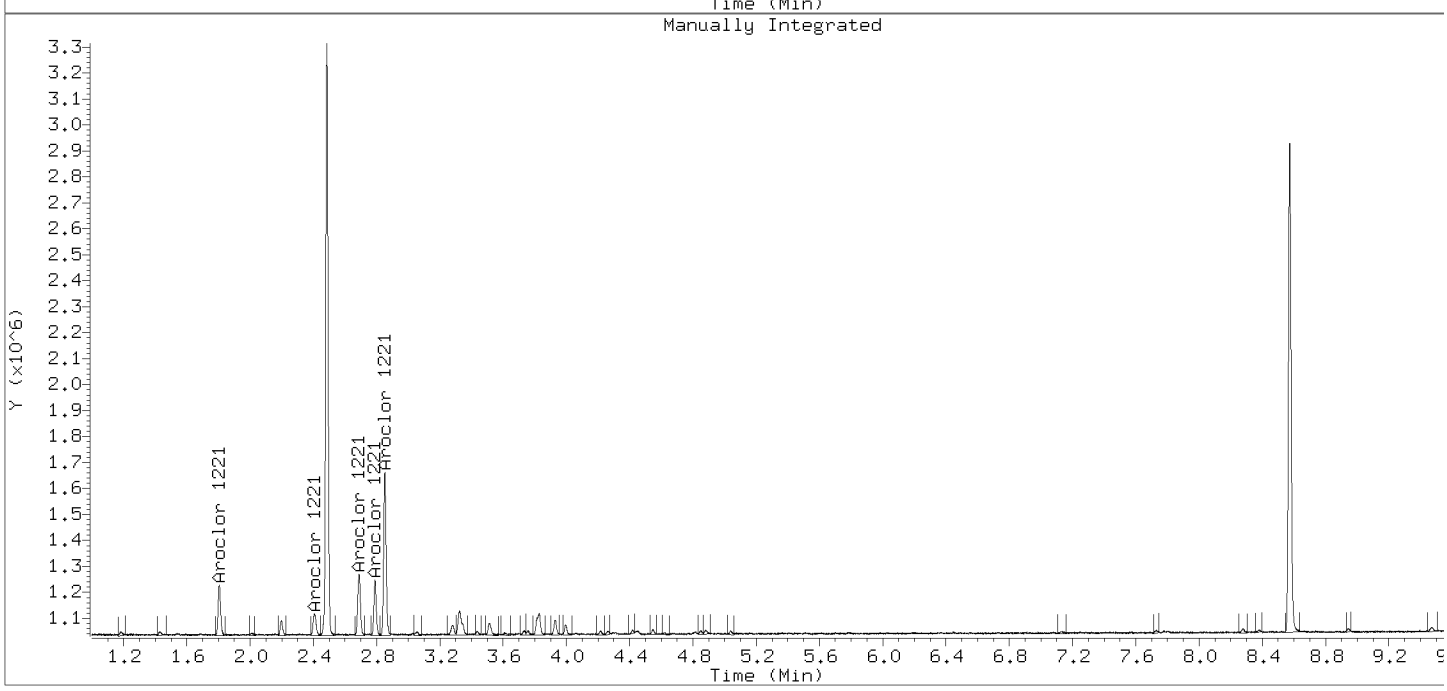
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

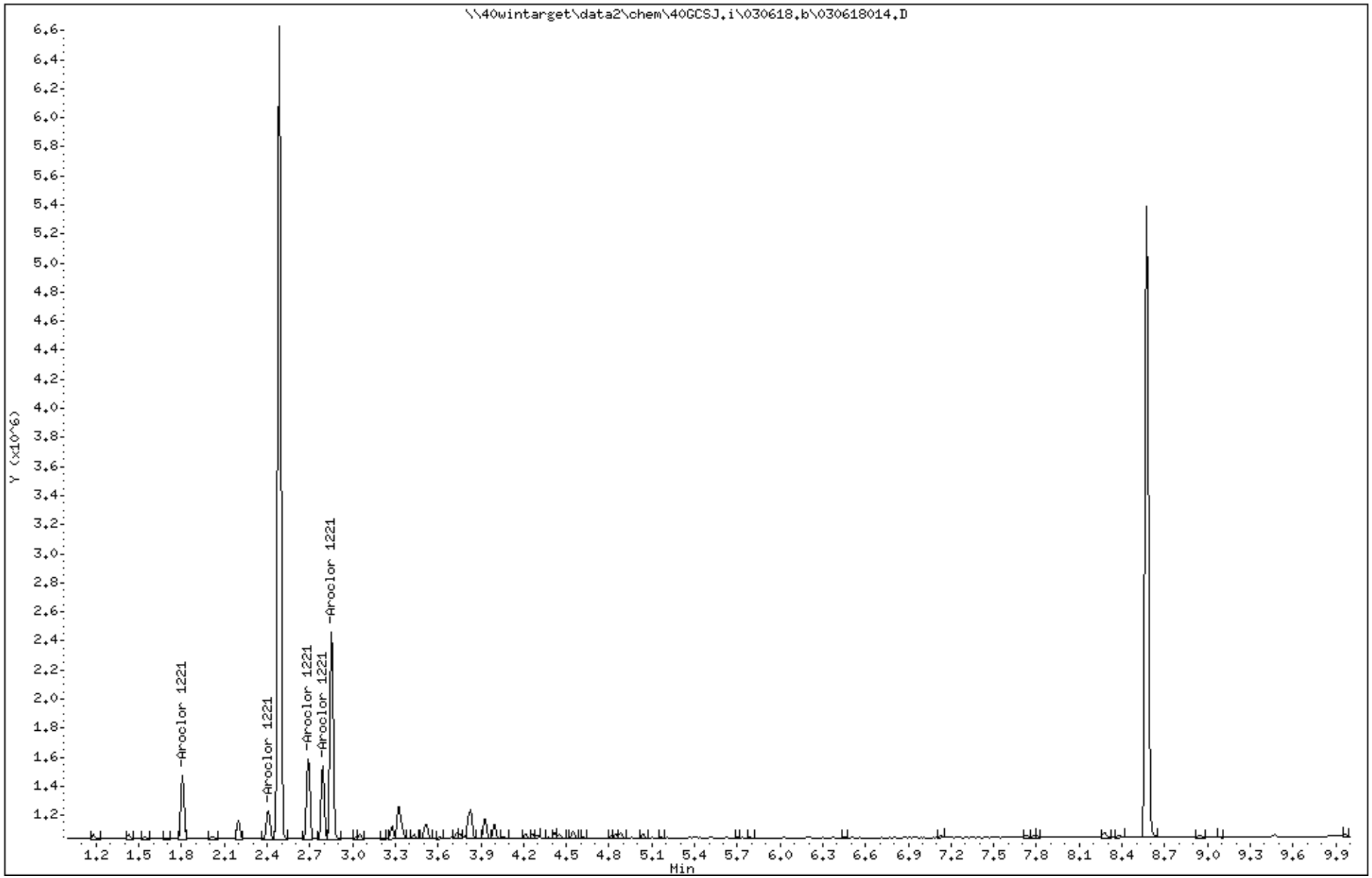
M - Compound response manually integrated.

Review Codes Legend

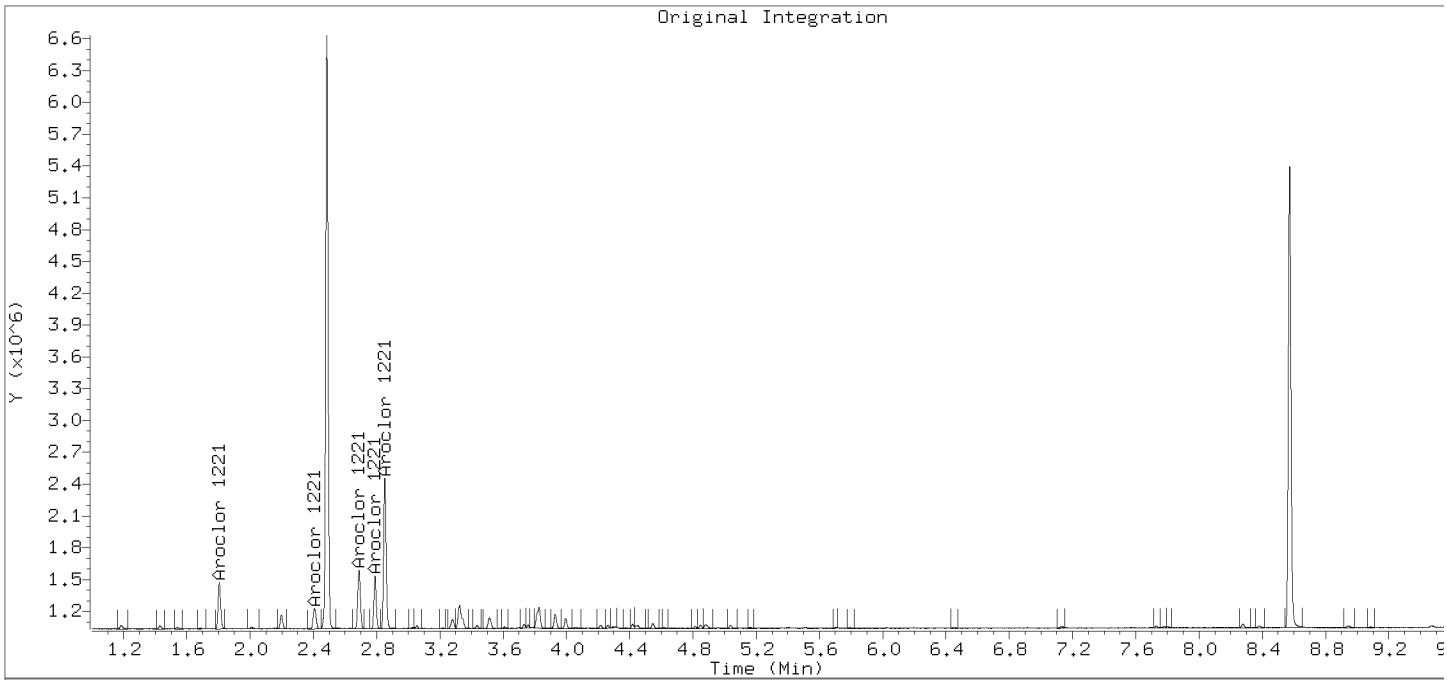
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

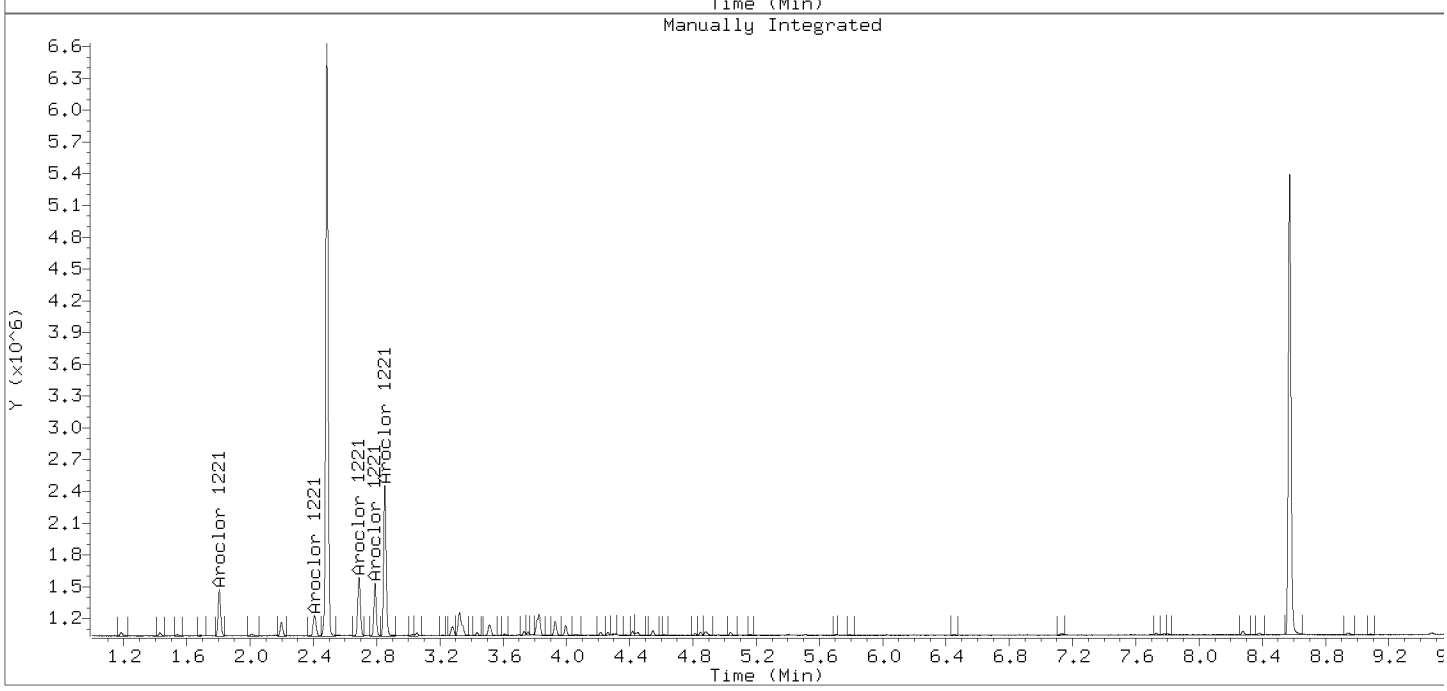
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:55

Client ID: 1221-CAL4F

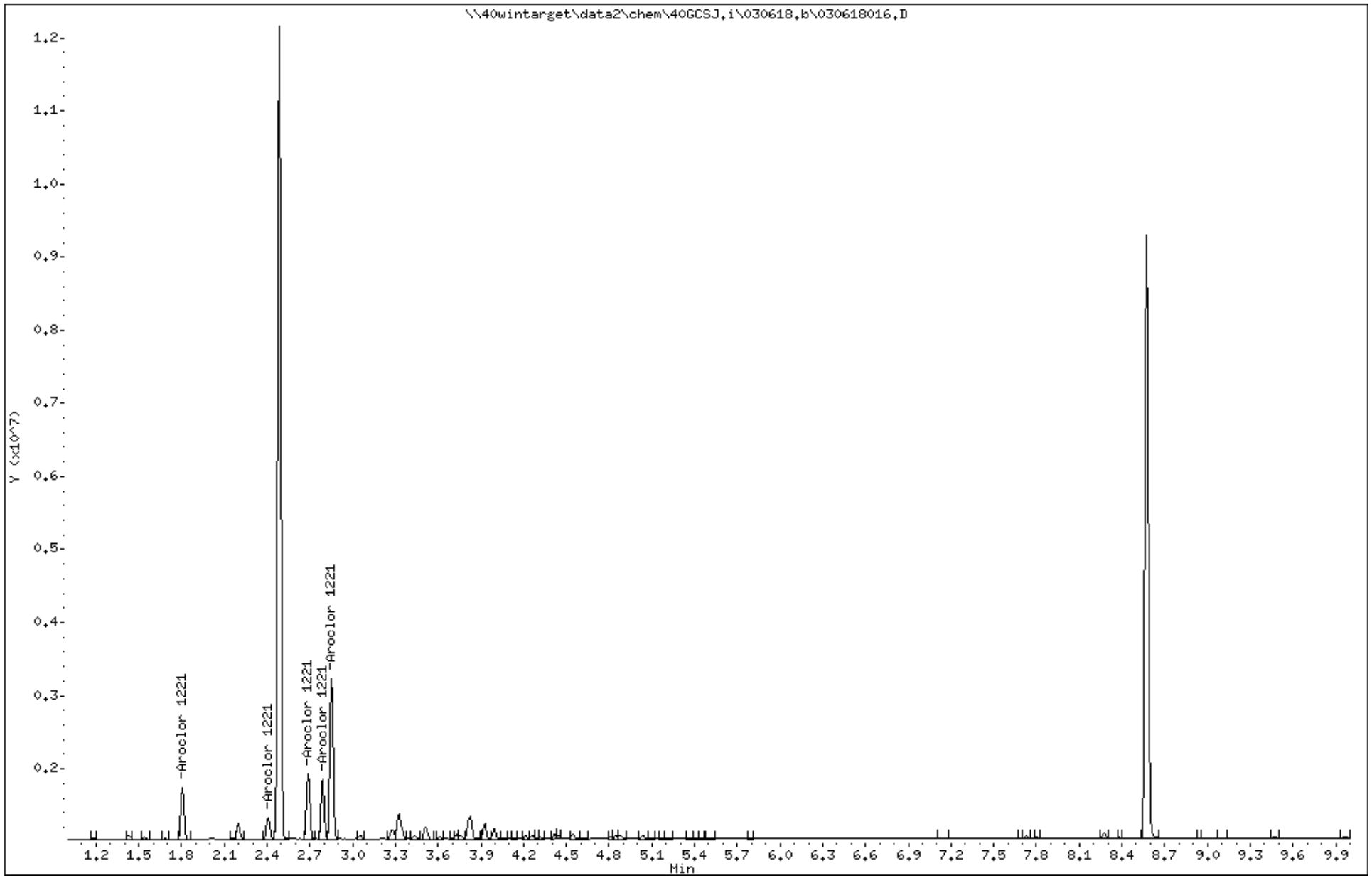
Instrument: 40GCSJ.i

Sample Info: 1221-CAL4F, 188140:1

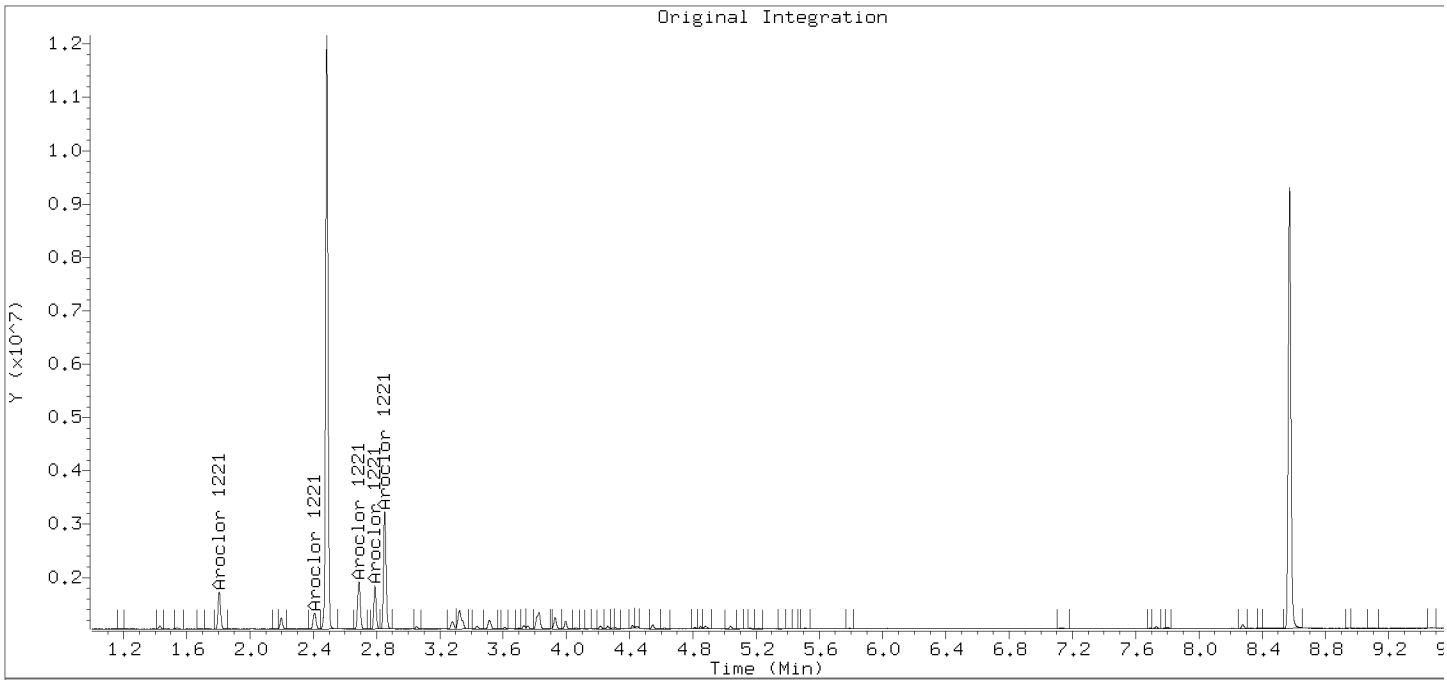
Operator: BLM

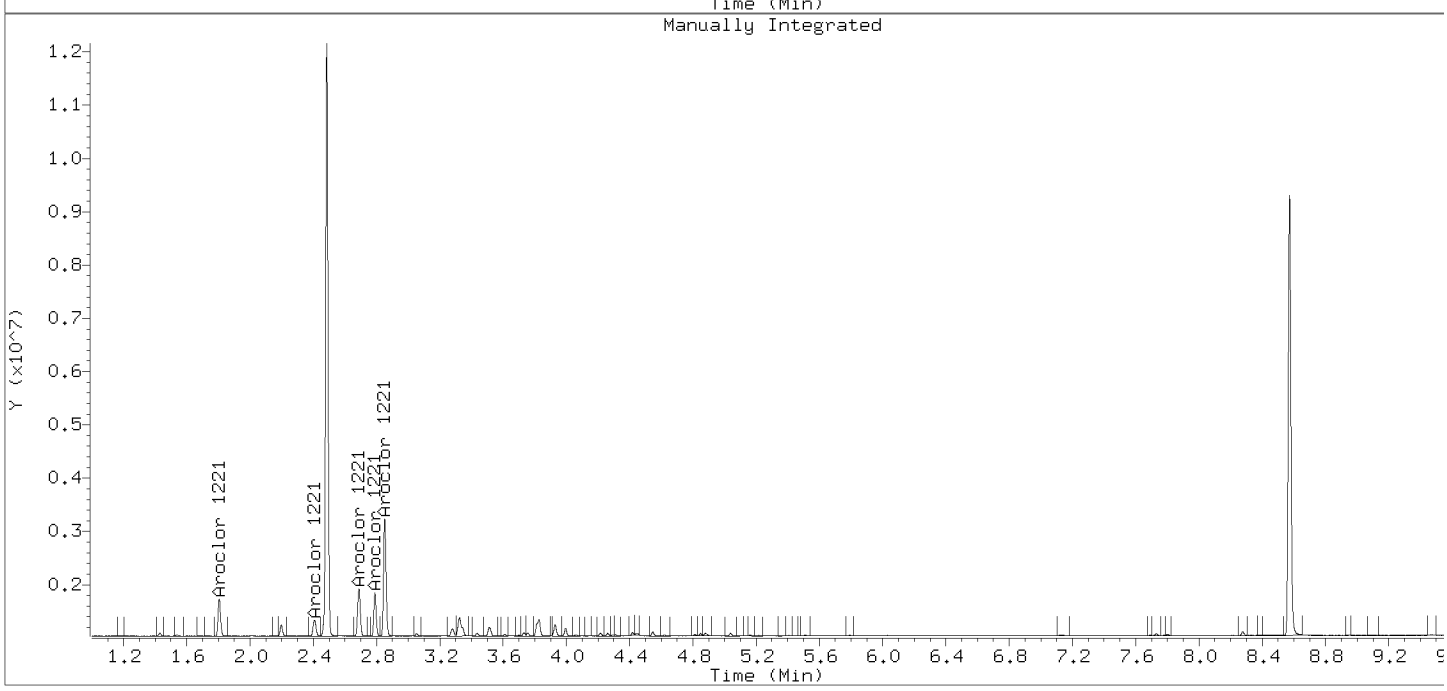
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D

Date : 06-MAR-2018 13:11

Client ID: 1221-CAL5F

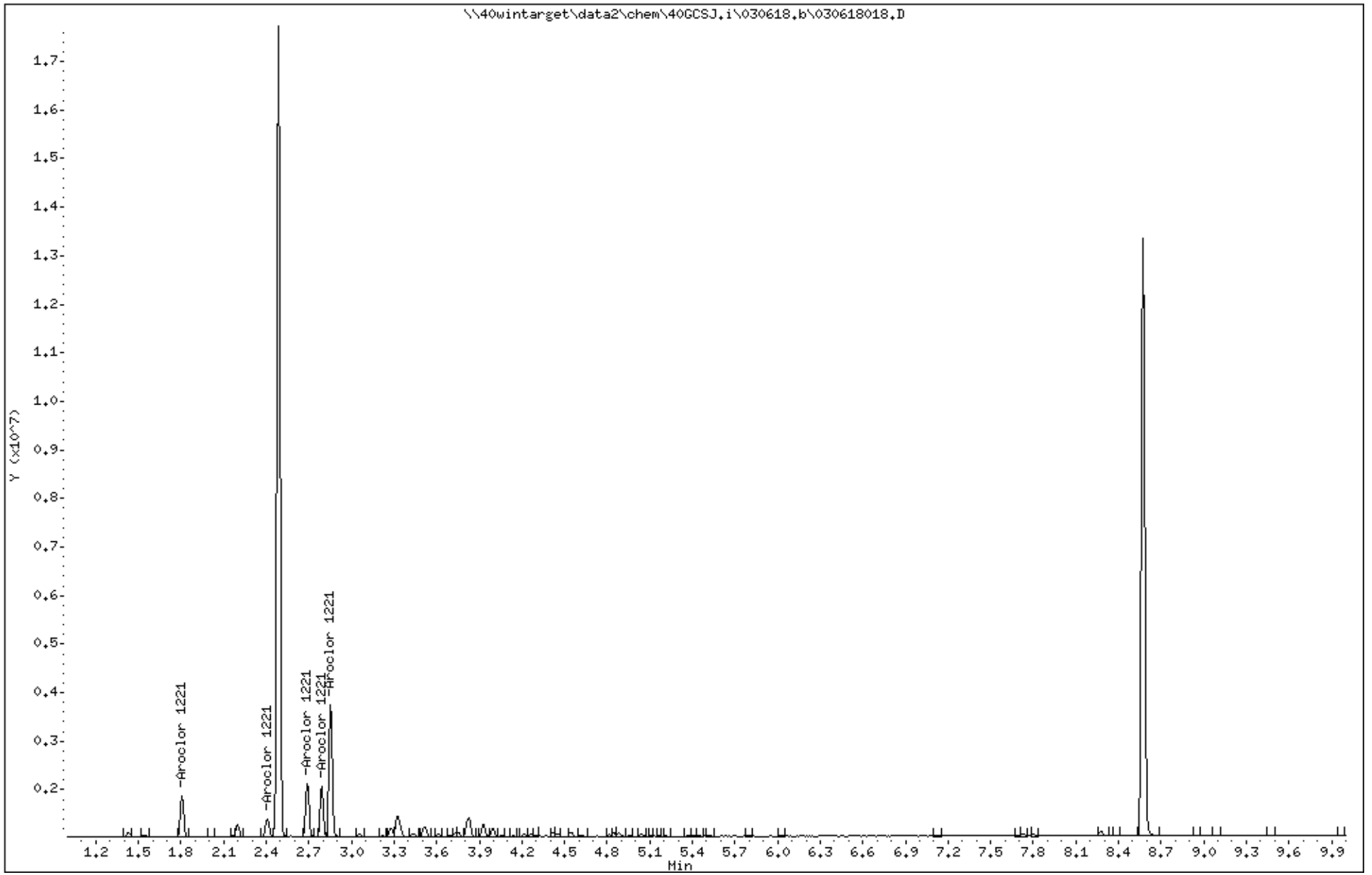
Instrument: 40GCSJ.i

Sample Info: 1221-CAL5F, 188141:1

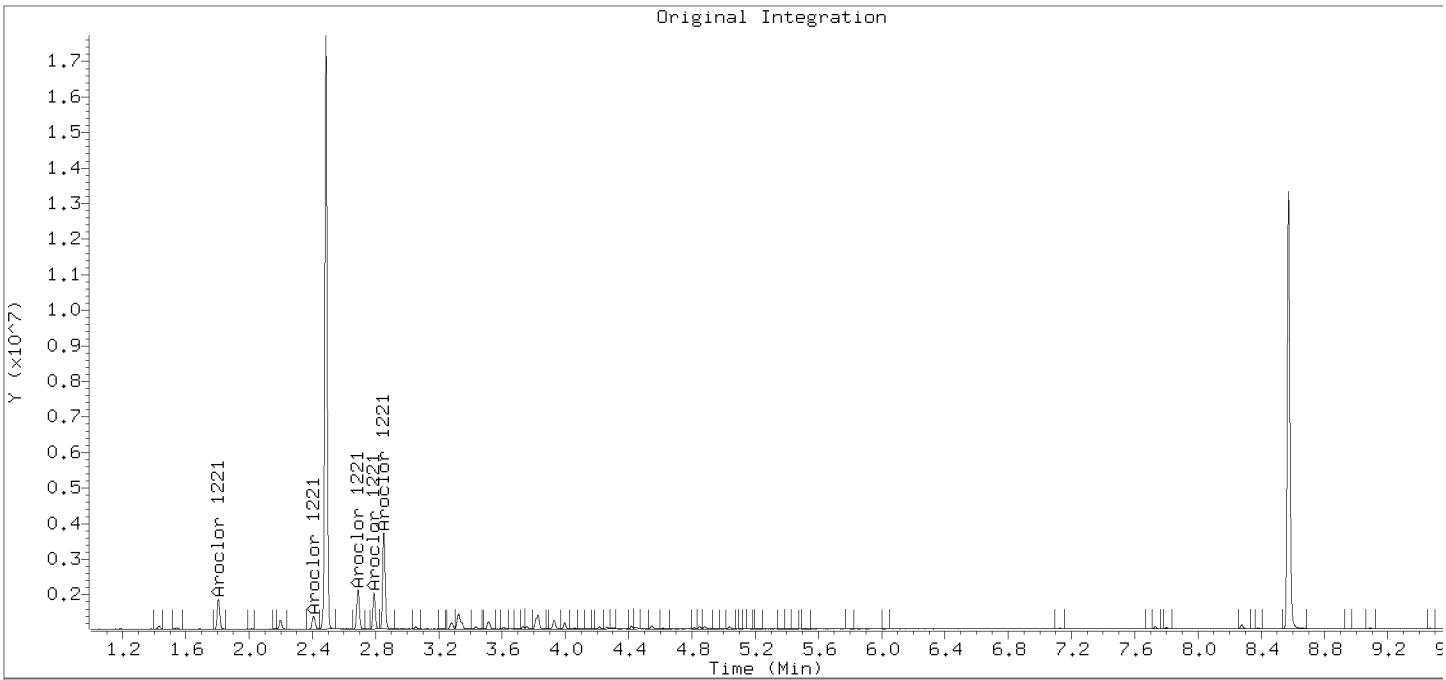
Operator: BLM

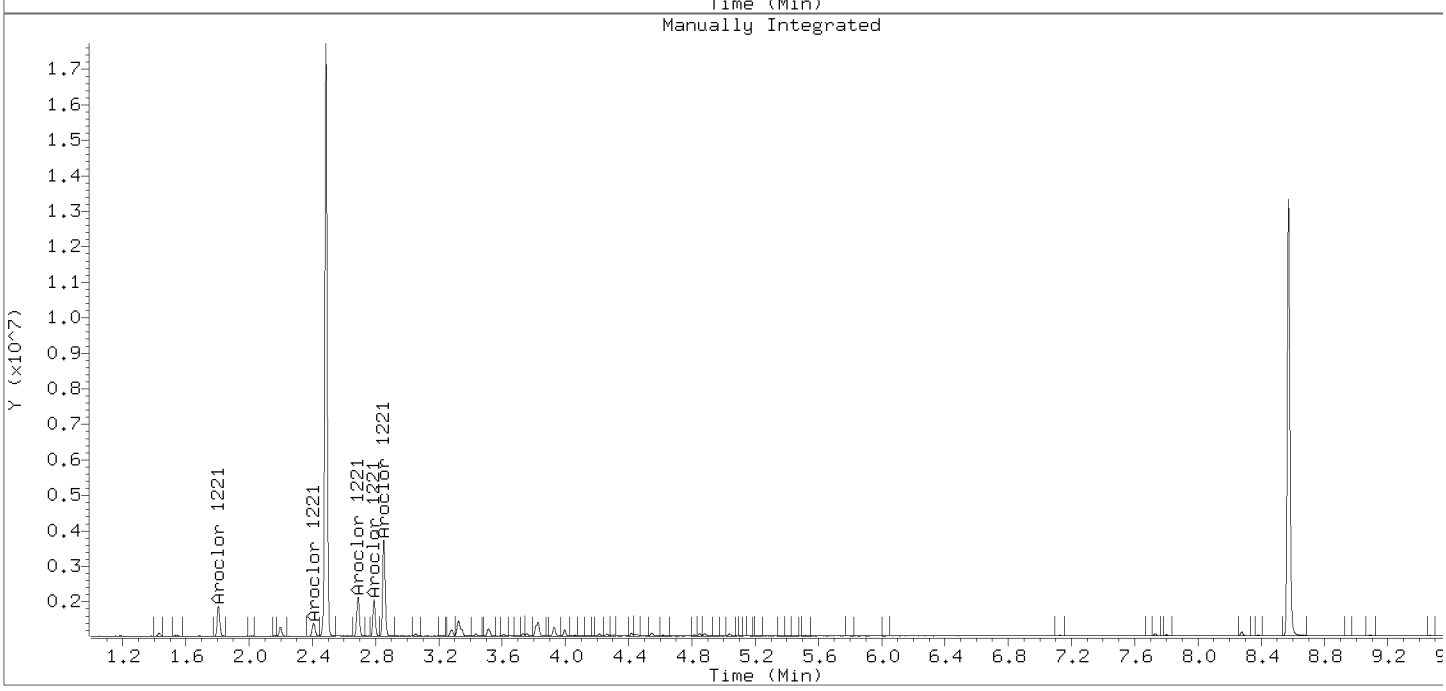
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D

Date : 06-MAR-2018 13:44

Client ID: 1242-CAL1B

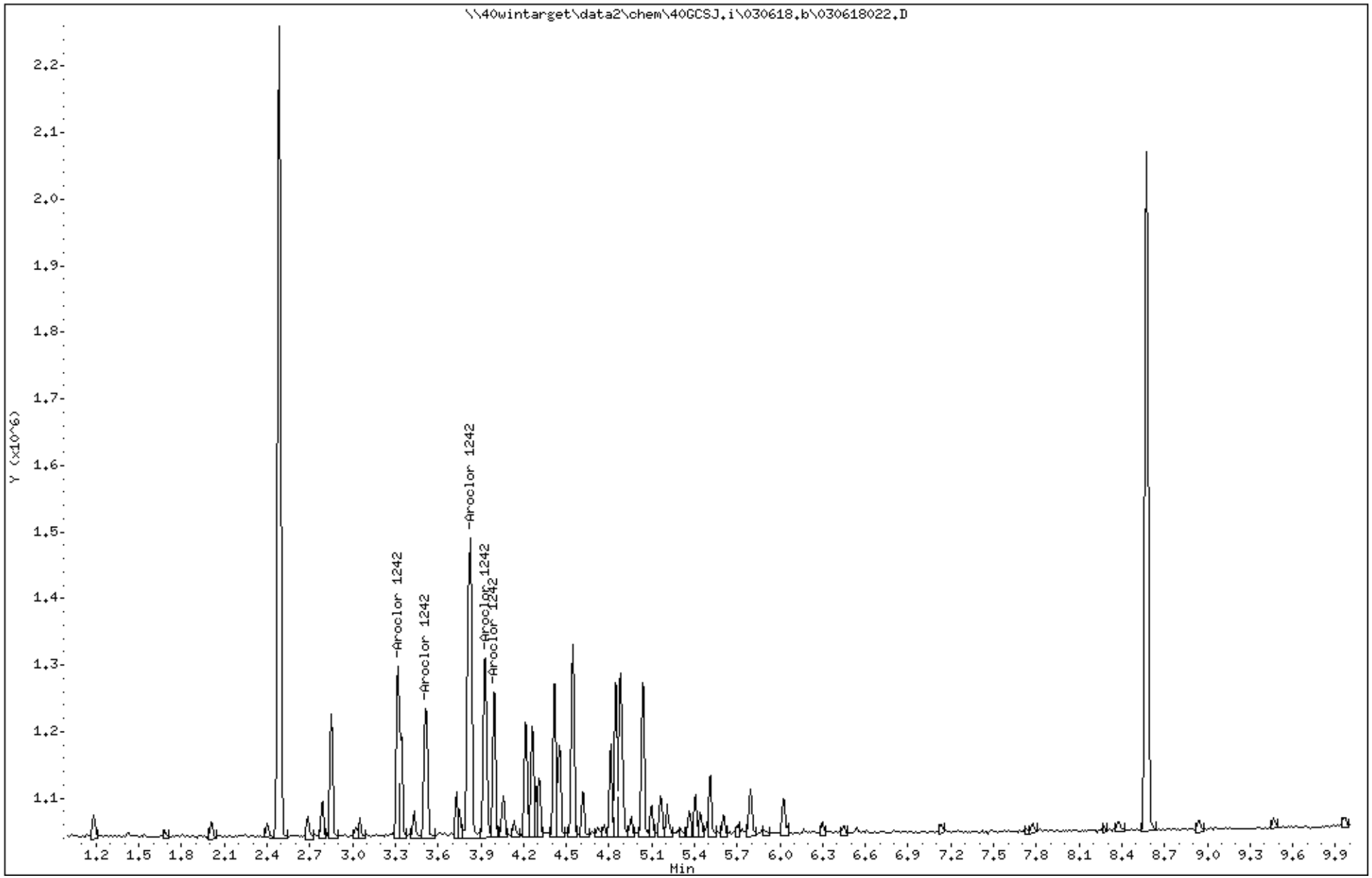
Instrument: 40GCSJ.i

Sample Info: 1242-CAL1B, 188132:1

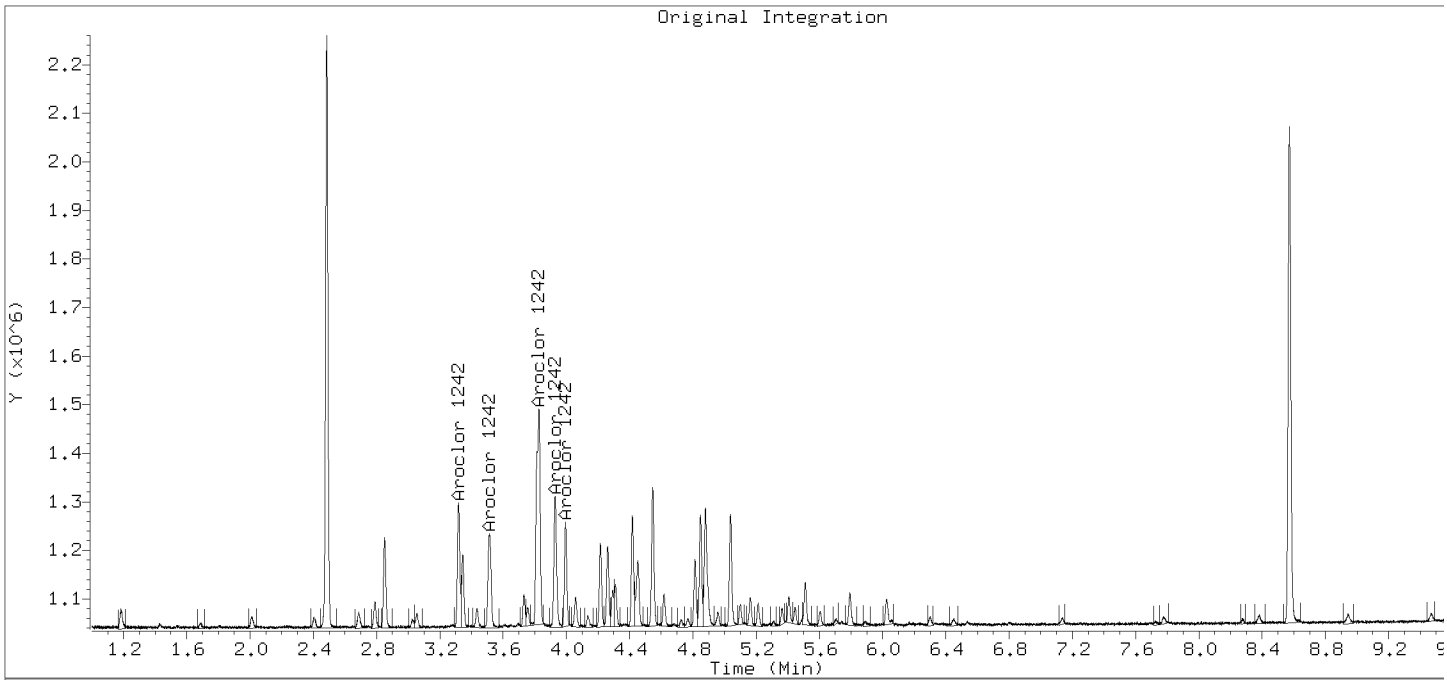
Operator: BLM

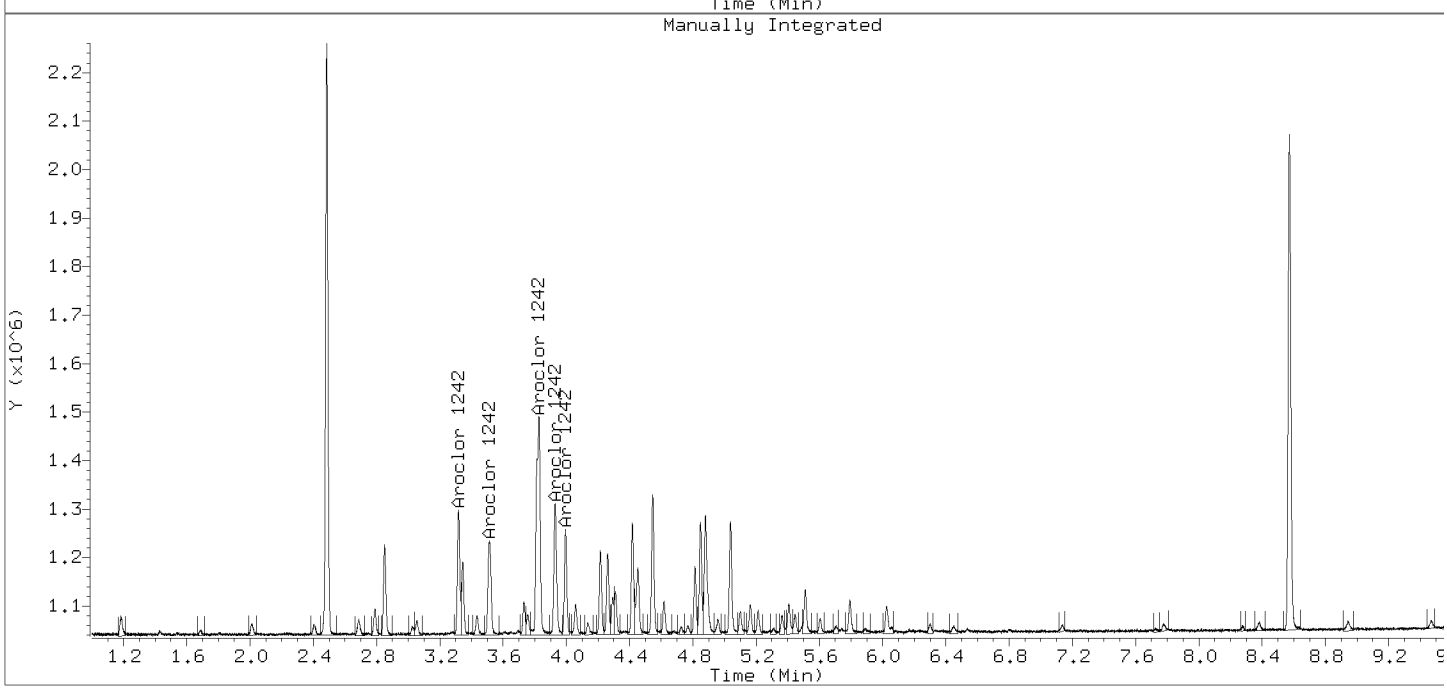
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

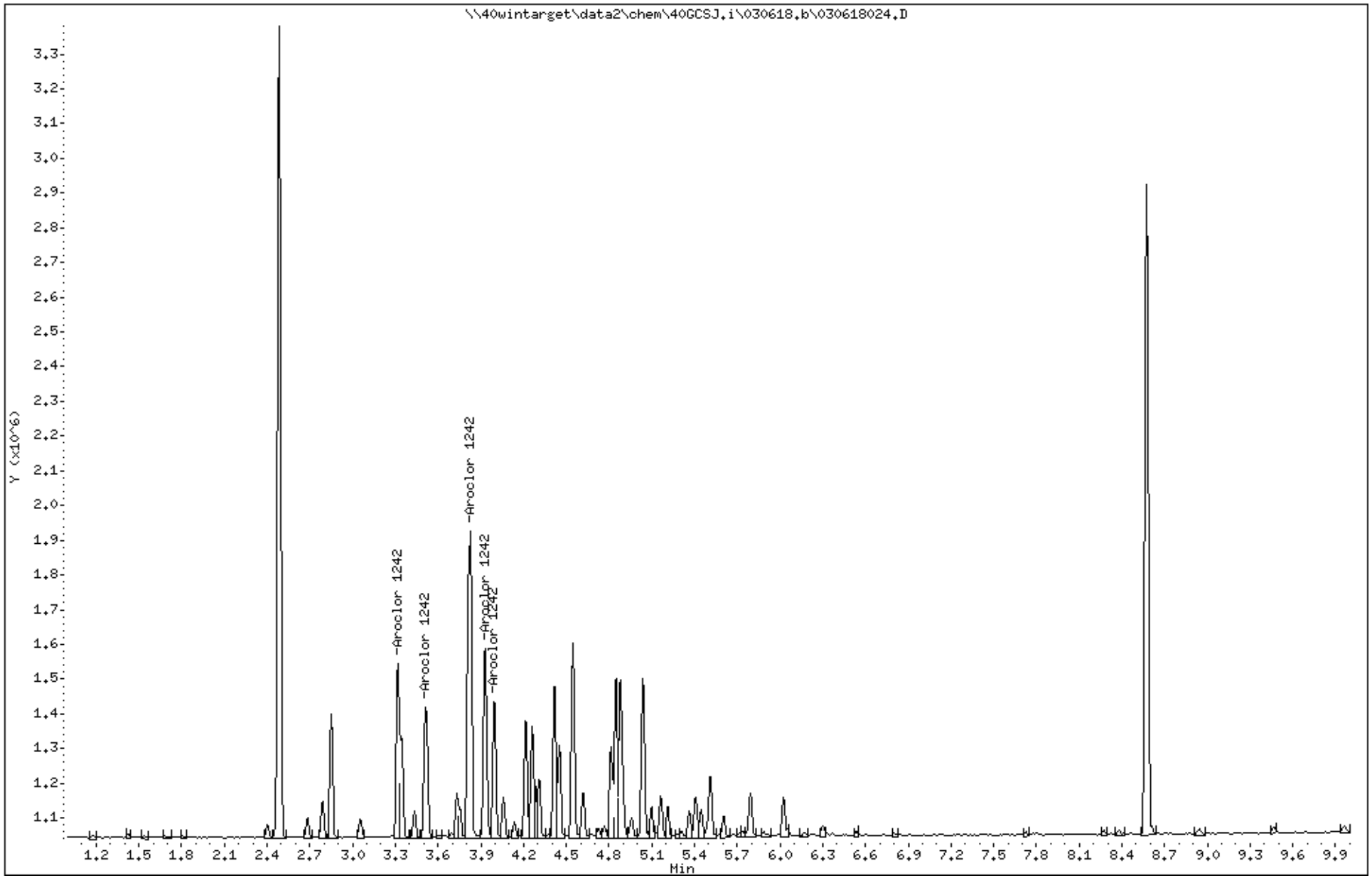
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

Column phase: ZB-1ms

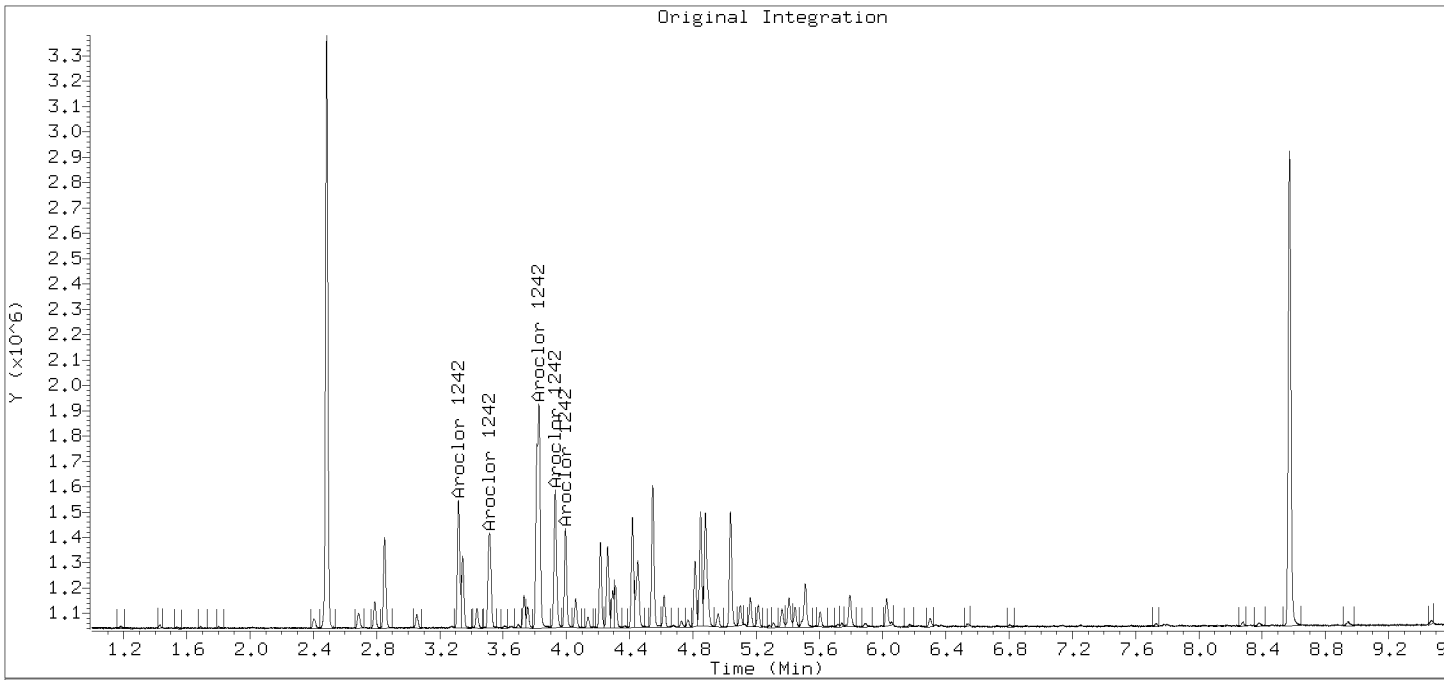
Instrument: 40GCSJ.i

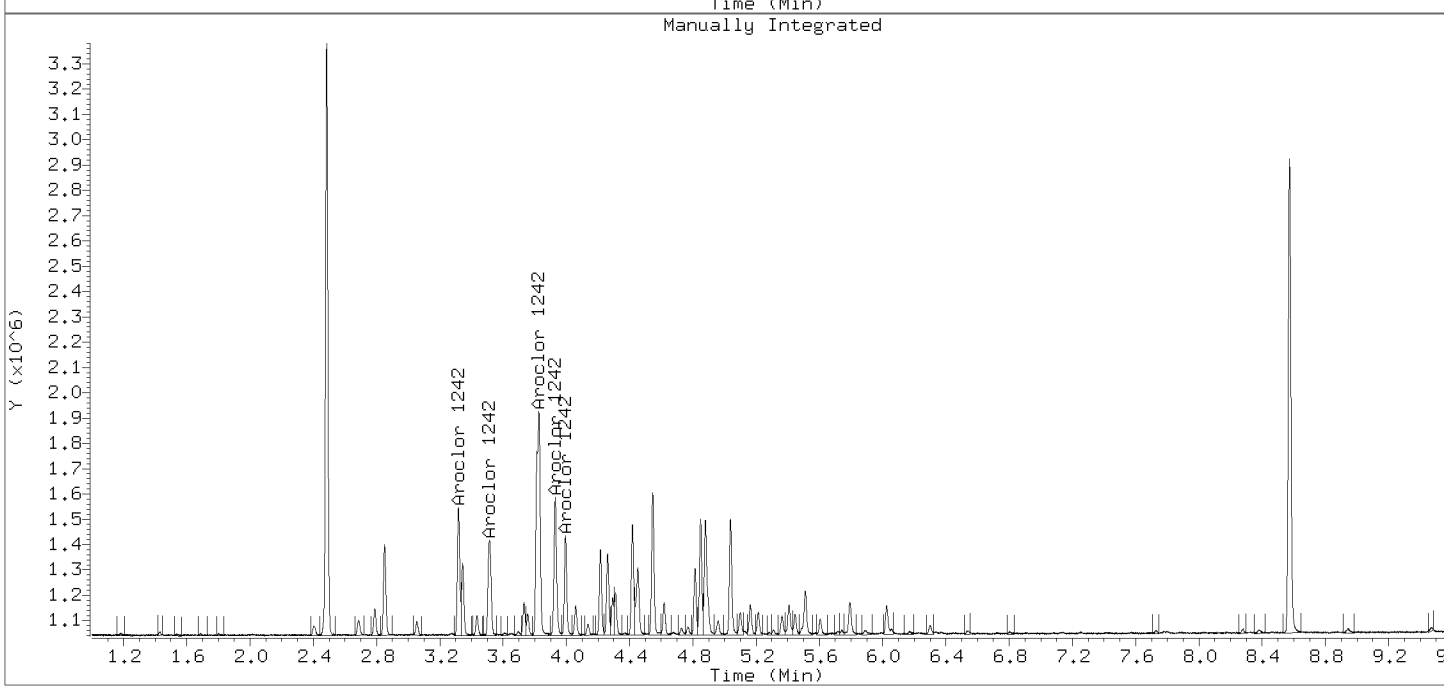
Operator: BLM

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

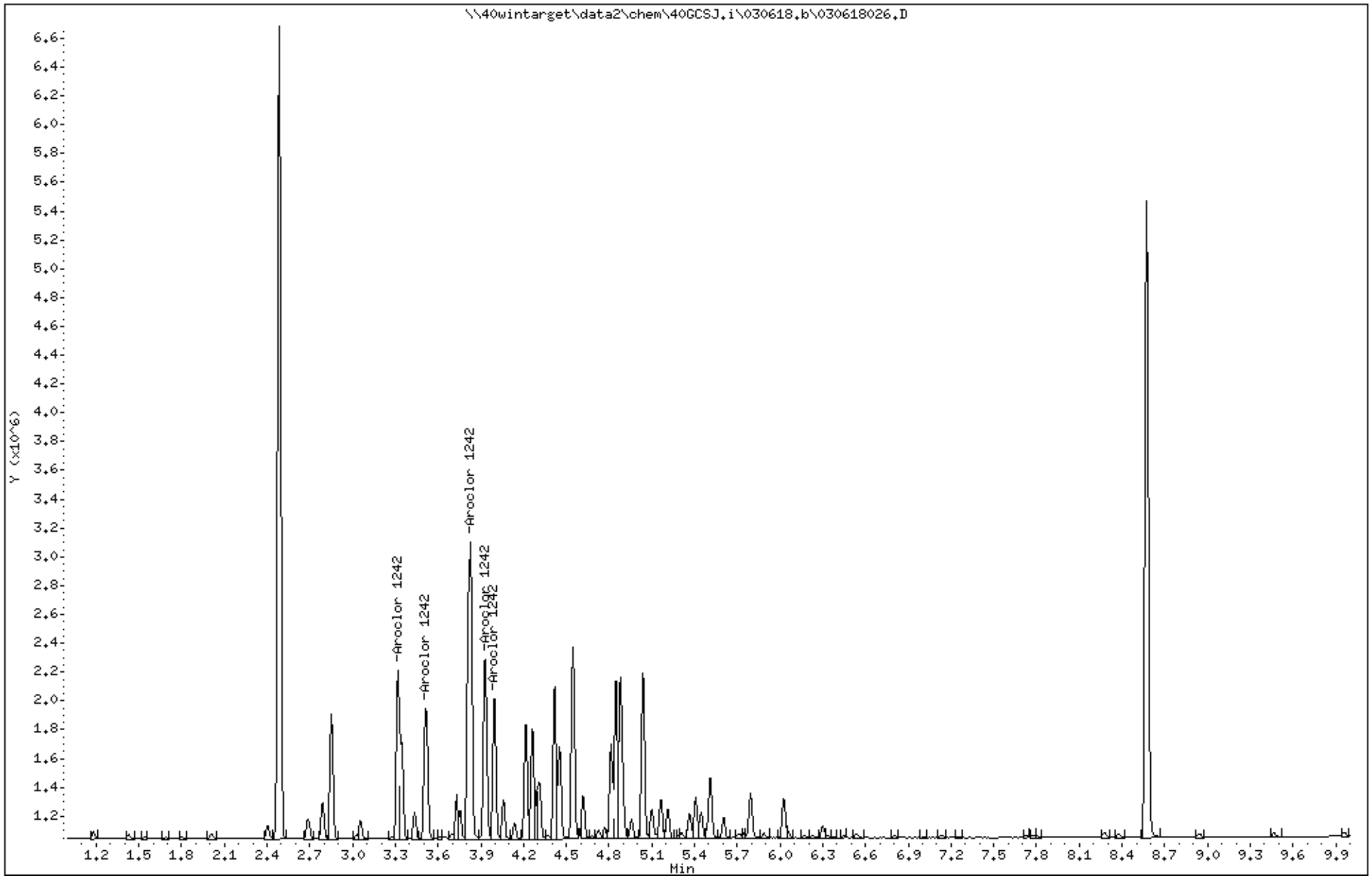
M - Compound response manually integrated.

Review Codes Legend

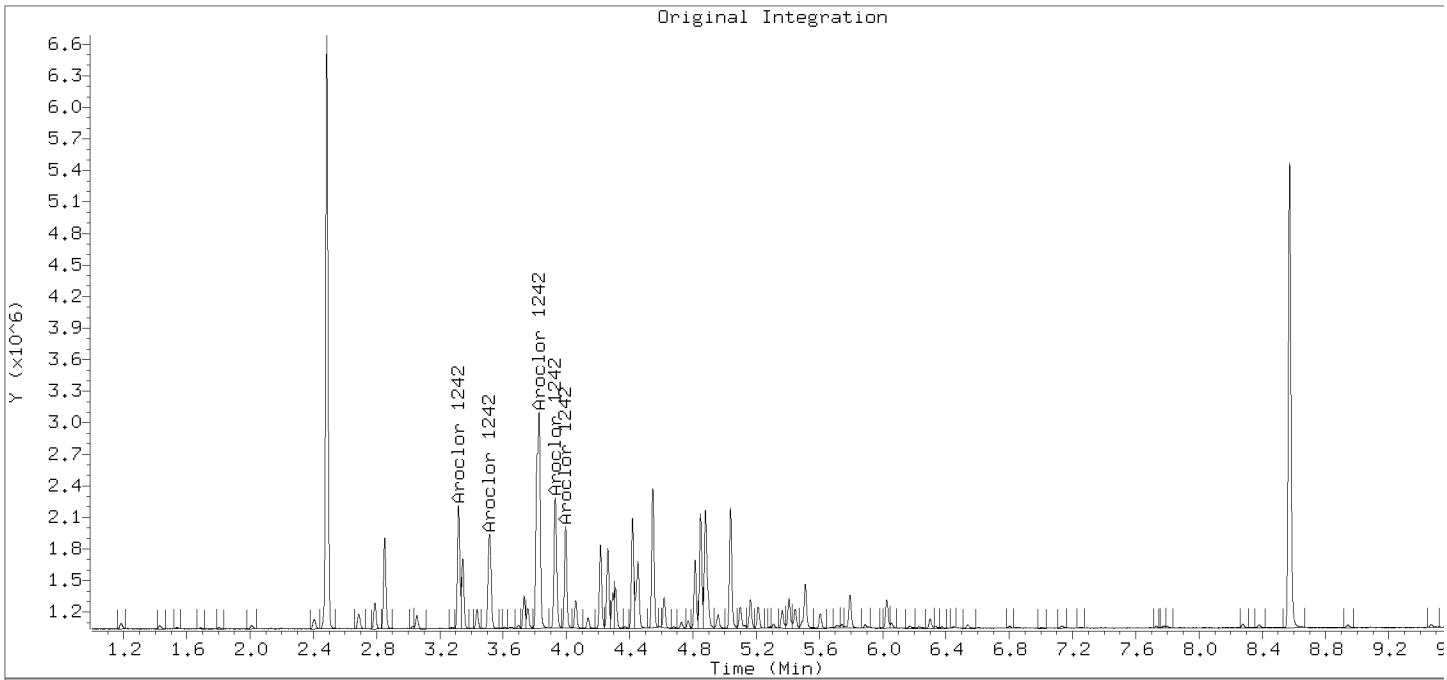
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

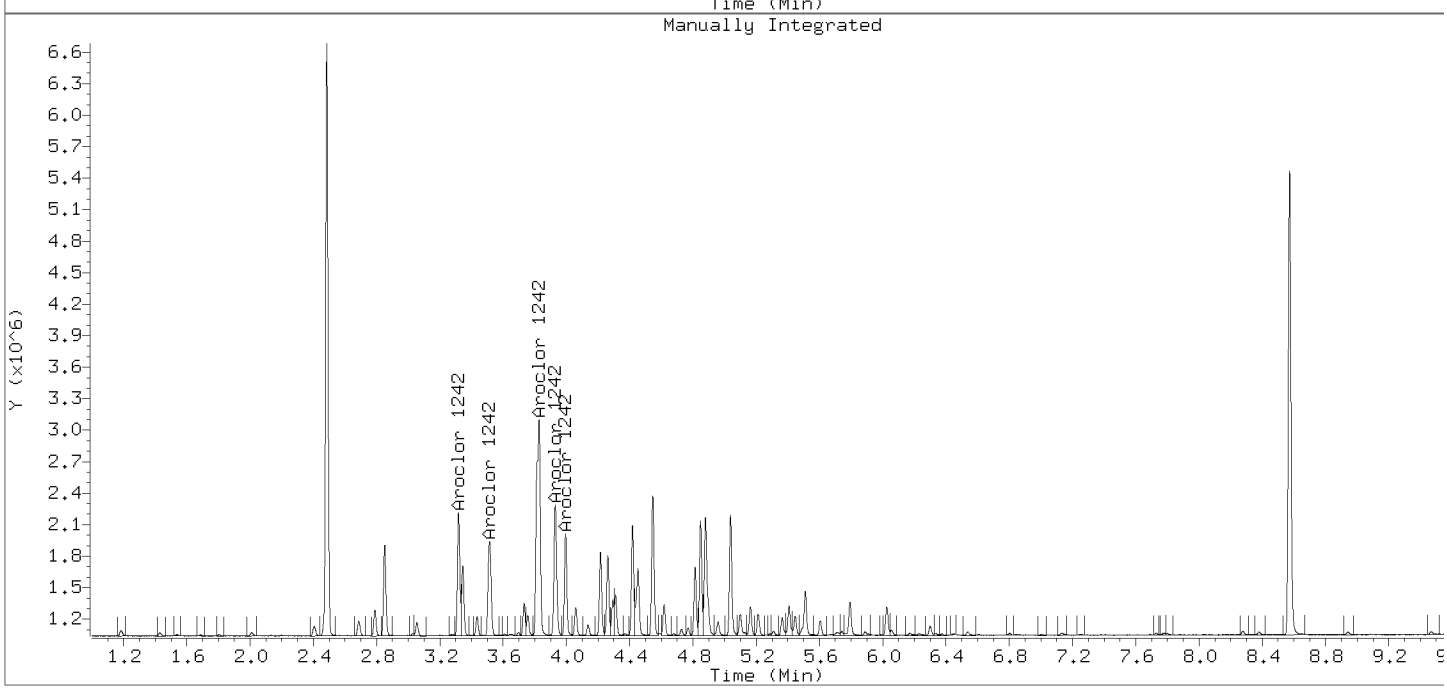
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Date : 06-MAR-2018 14:16
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

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

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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

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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

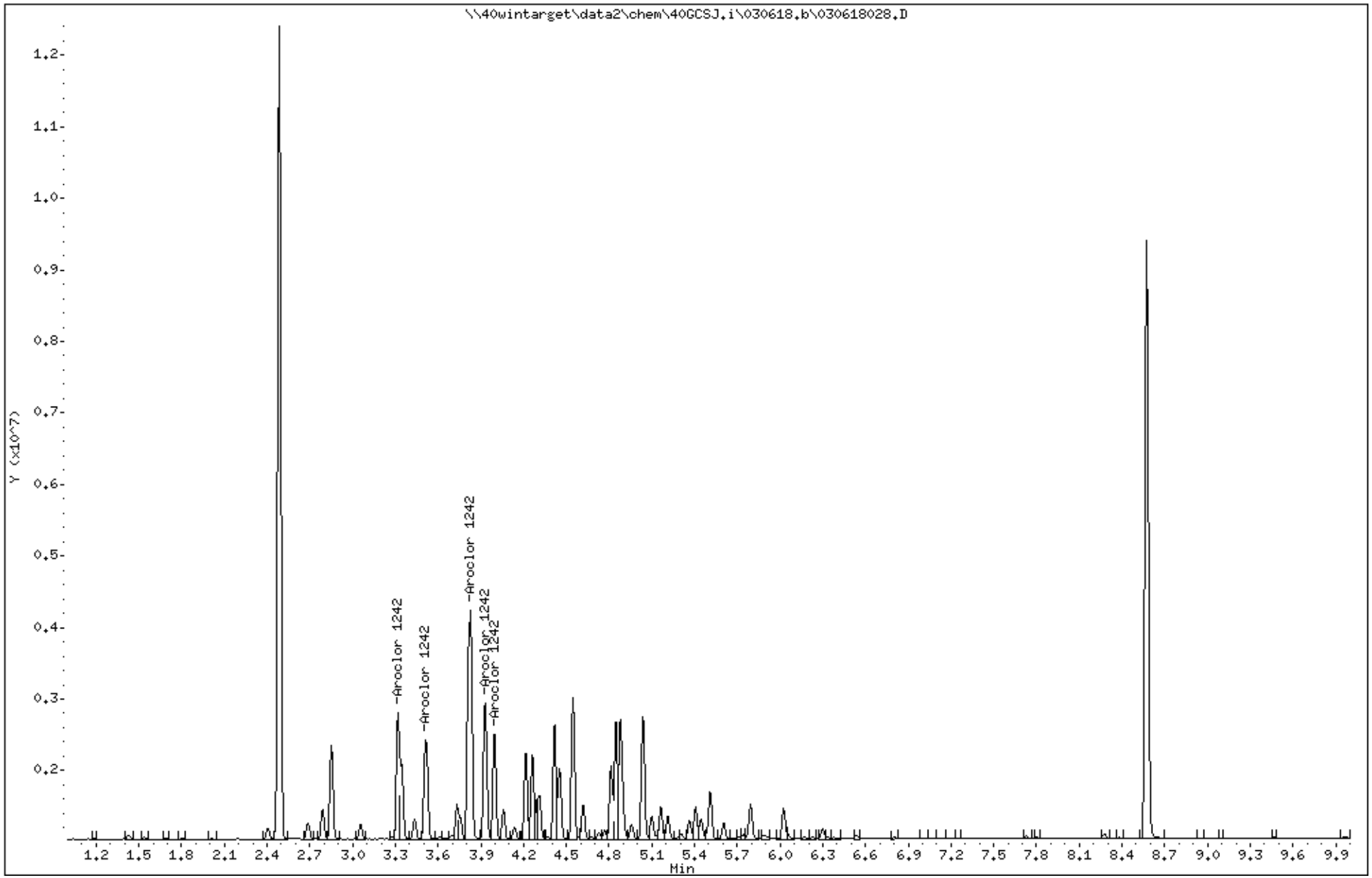
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

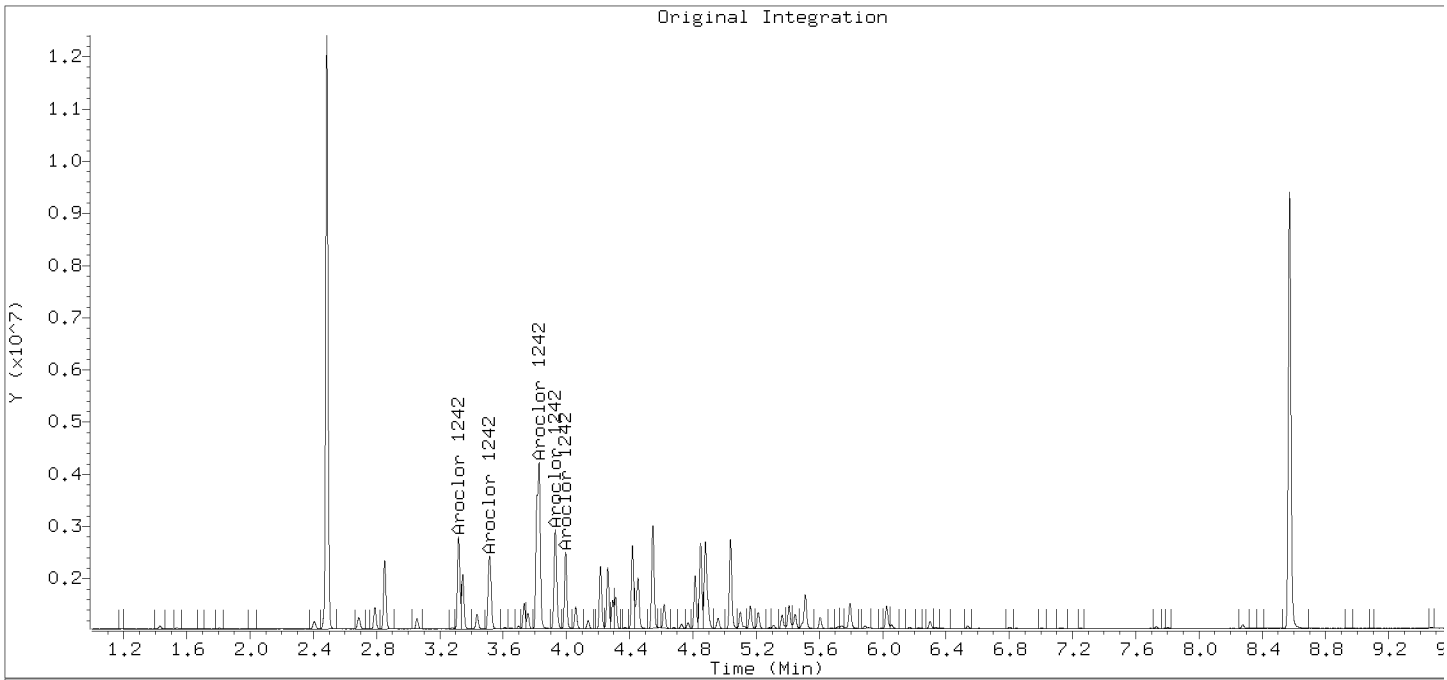
Operator: BLM

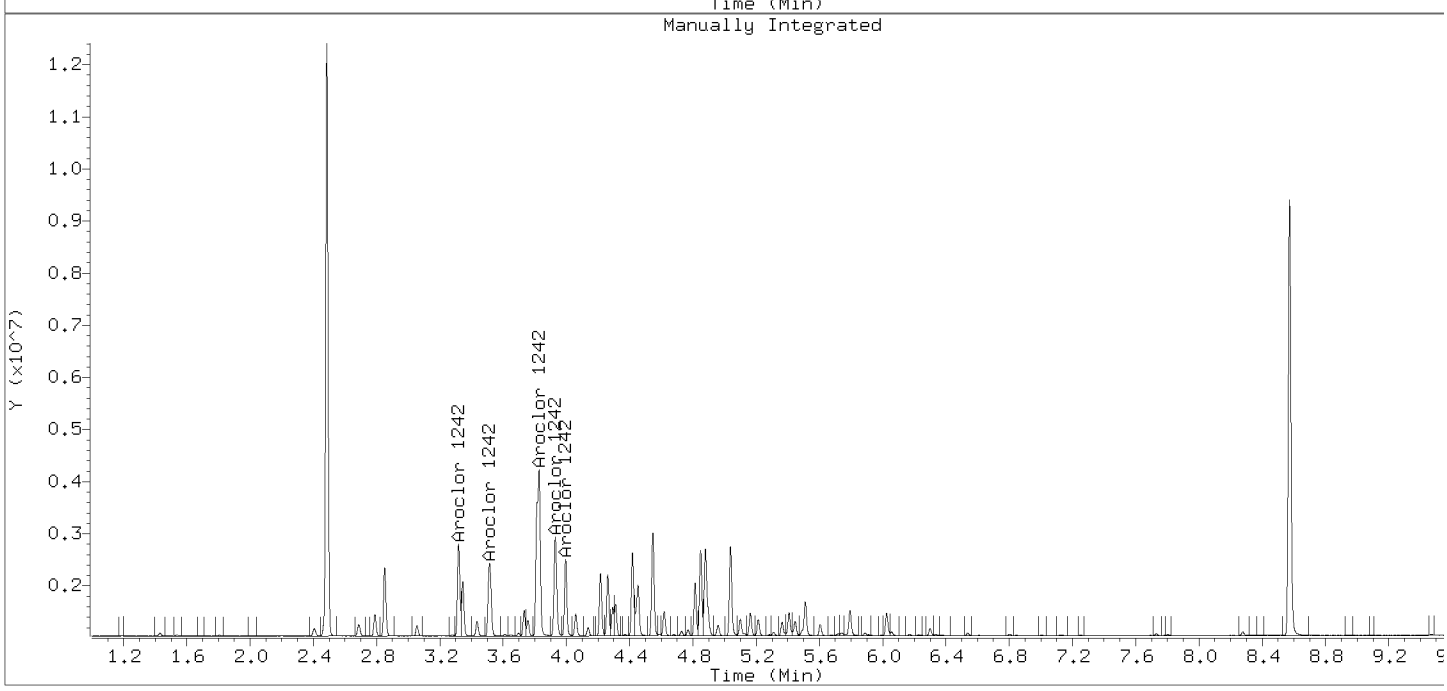
Column phase: ZB-1ms

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

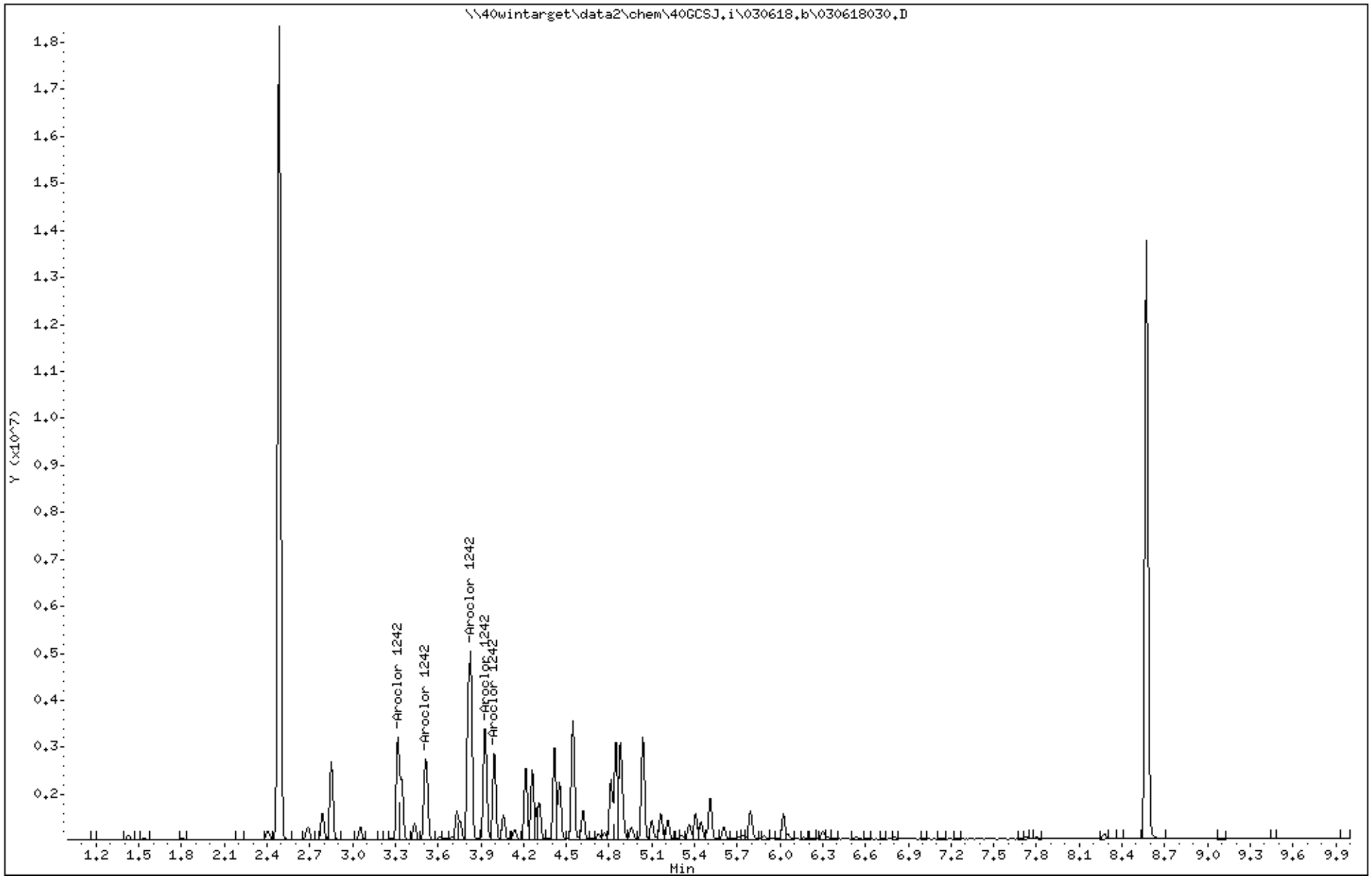
Instrument: 40GCSJ.i

Sample Info: 1242-CAL5B, 185546:1

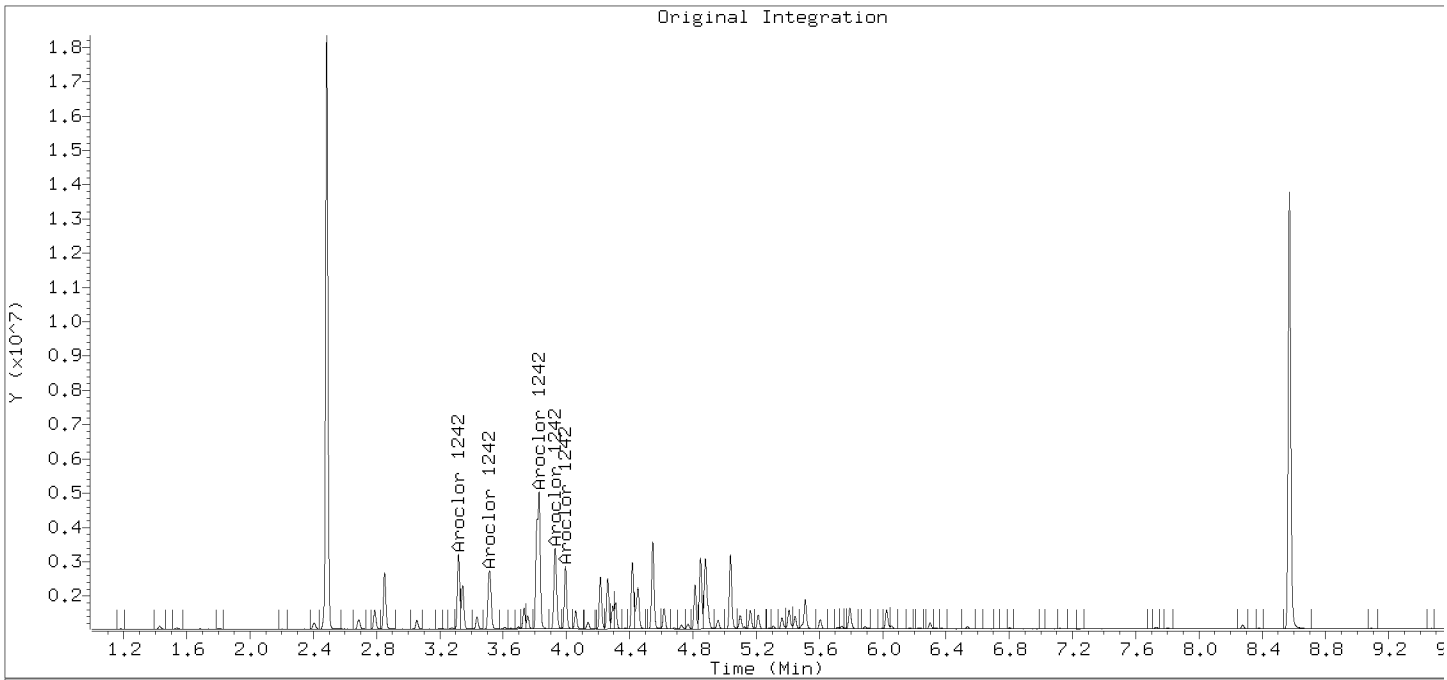
Operator: BLM

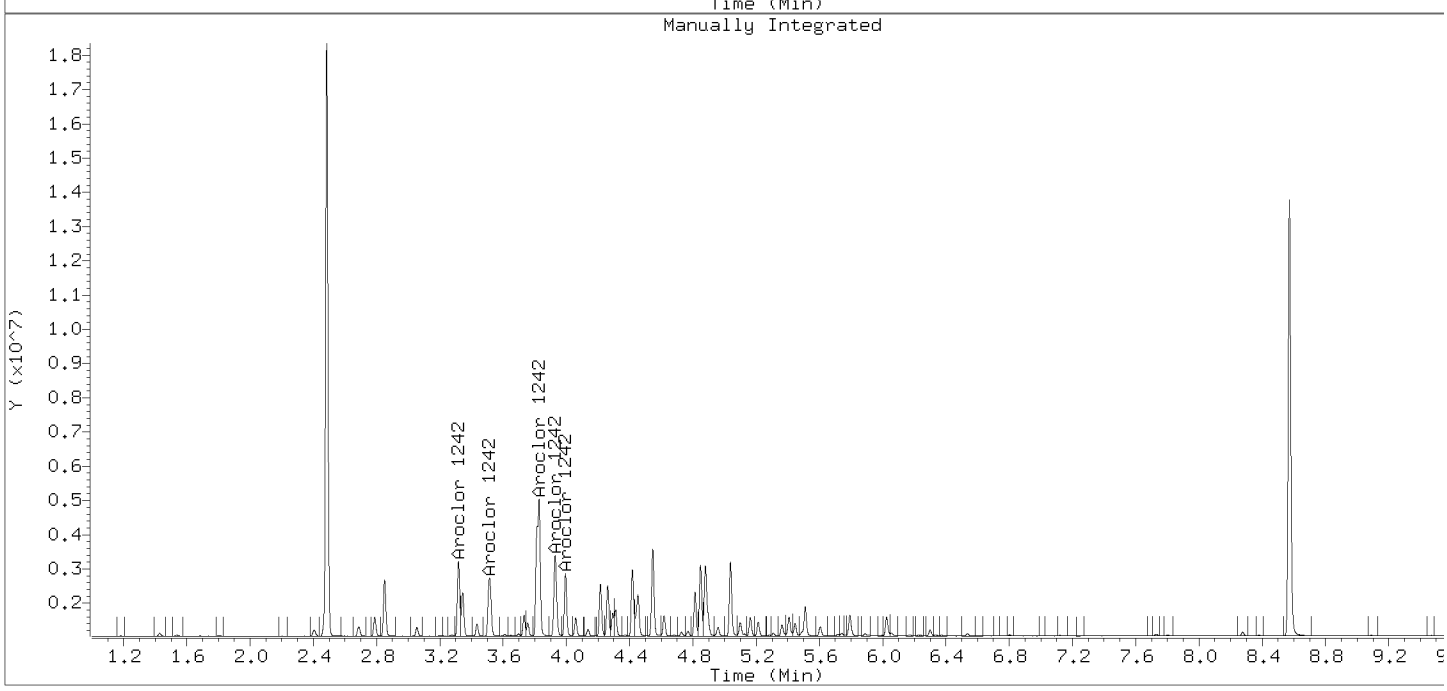
Column phase: ZB-1ms

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.

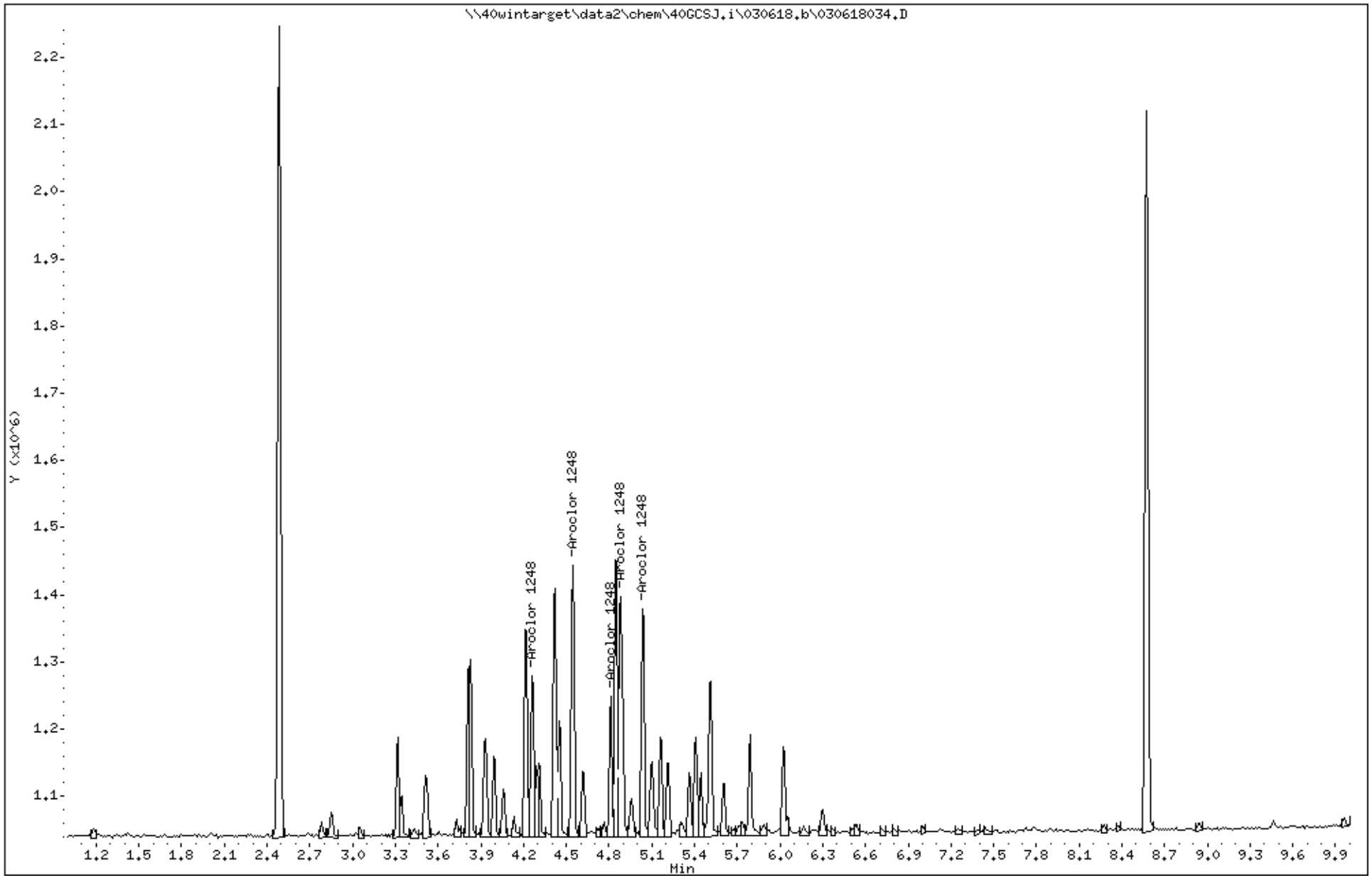
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSJ.i

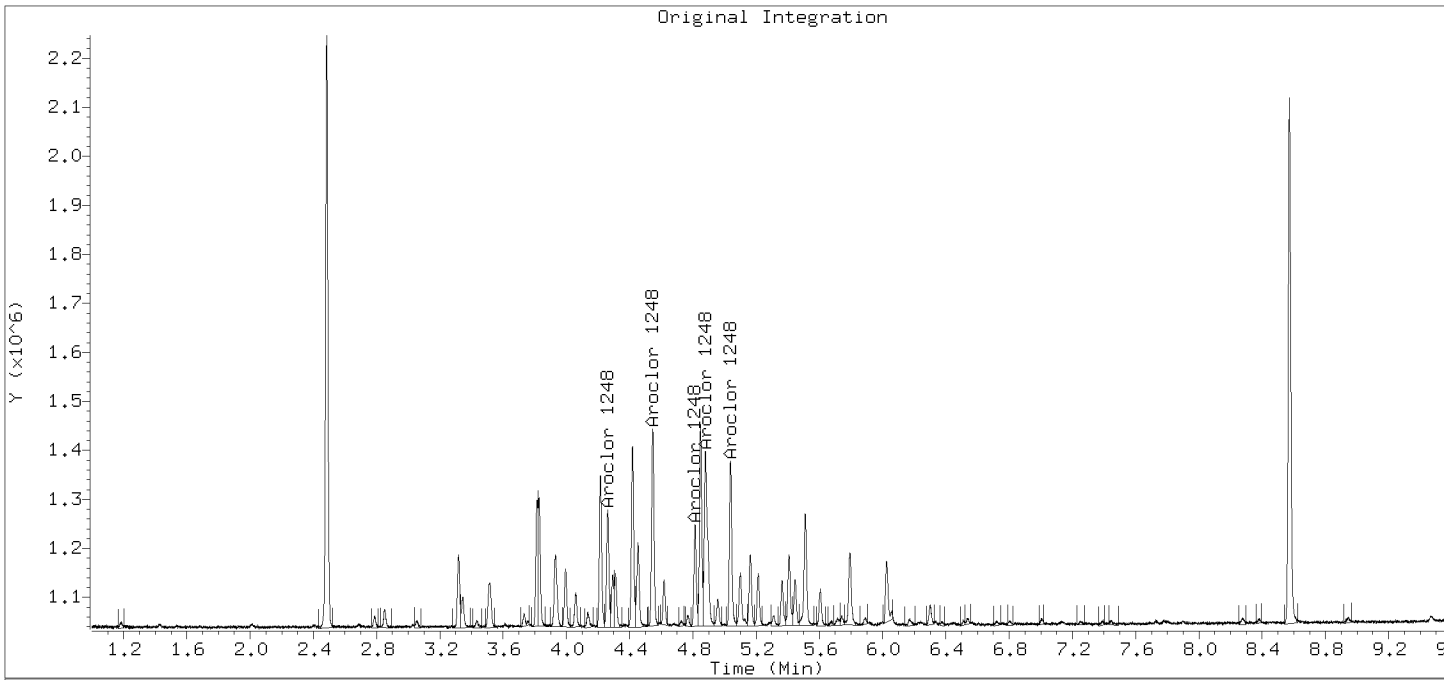
Operator: BLM

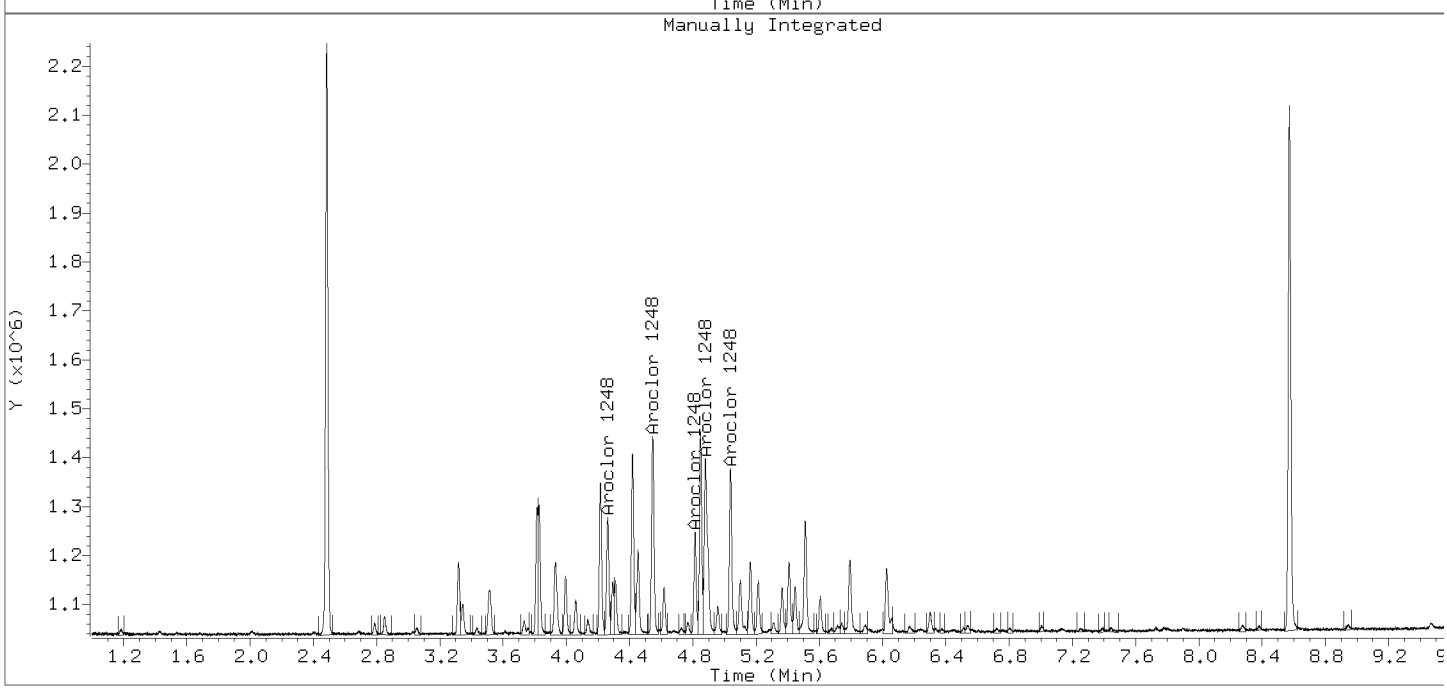
Column phase: ZB-1ms

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

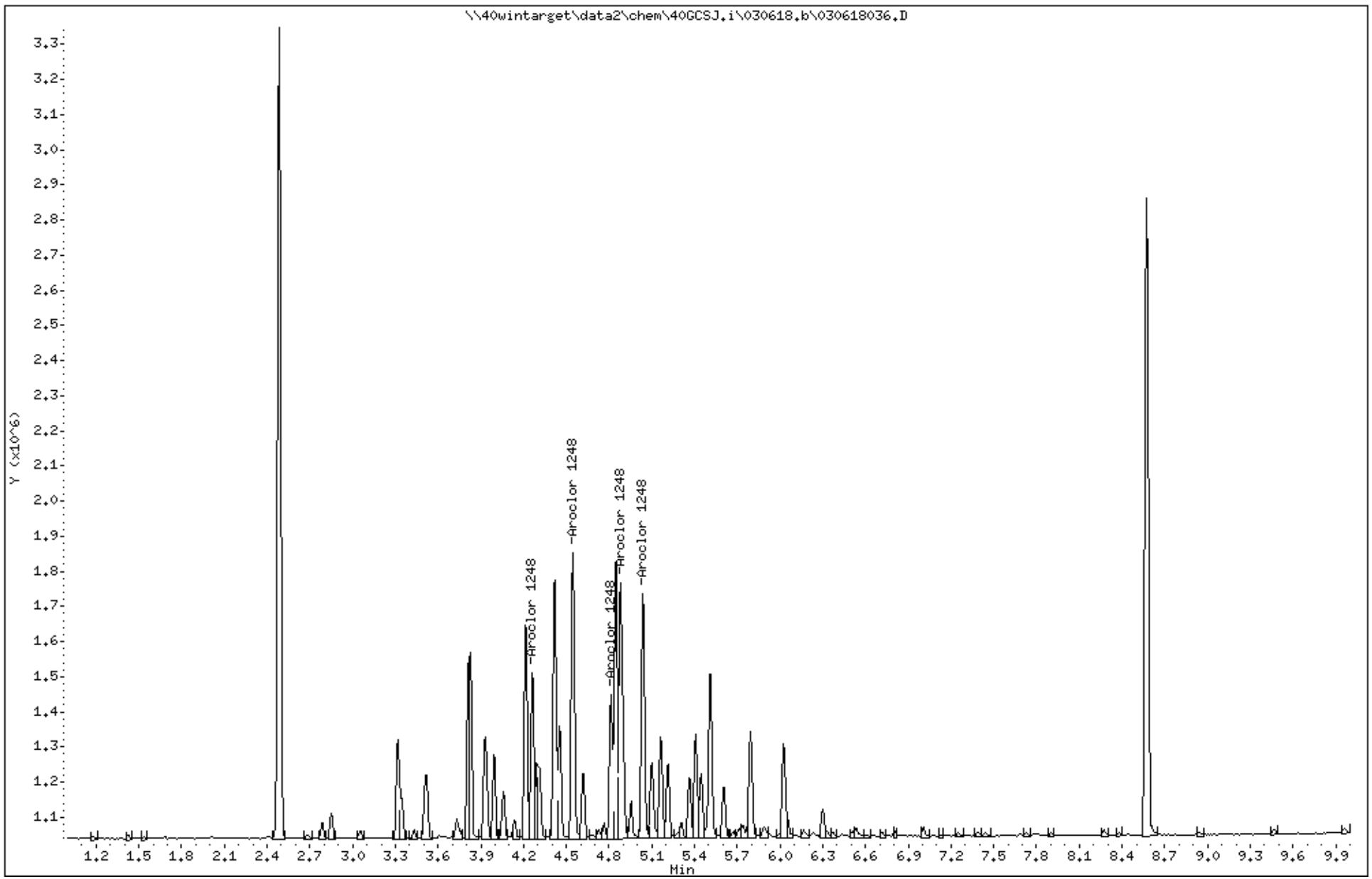
M - Compound response manually integrated.

Review Codes Legend

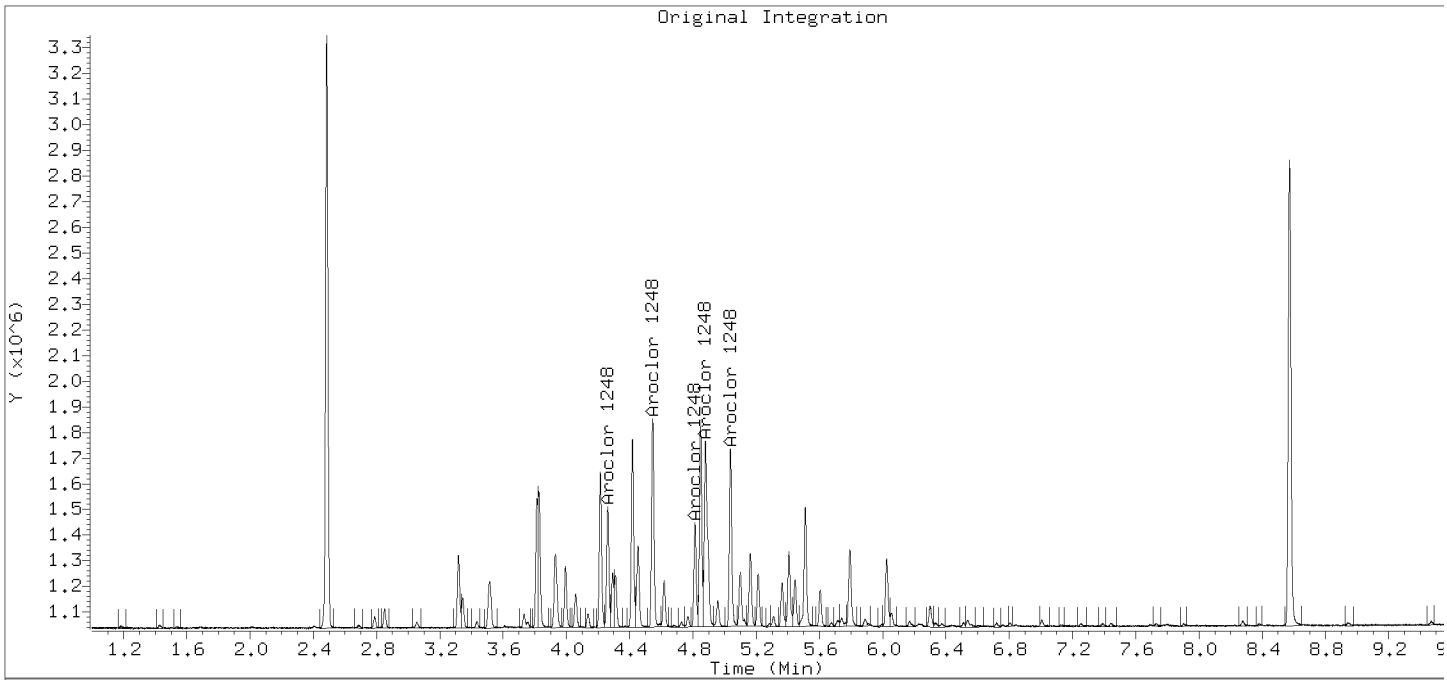
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

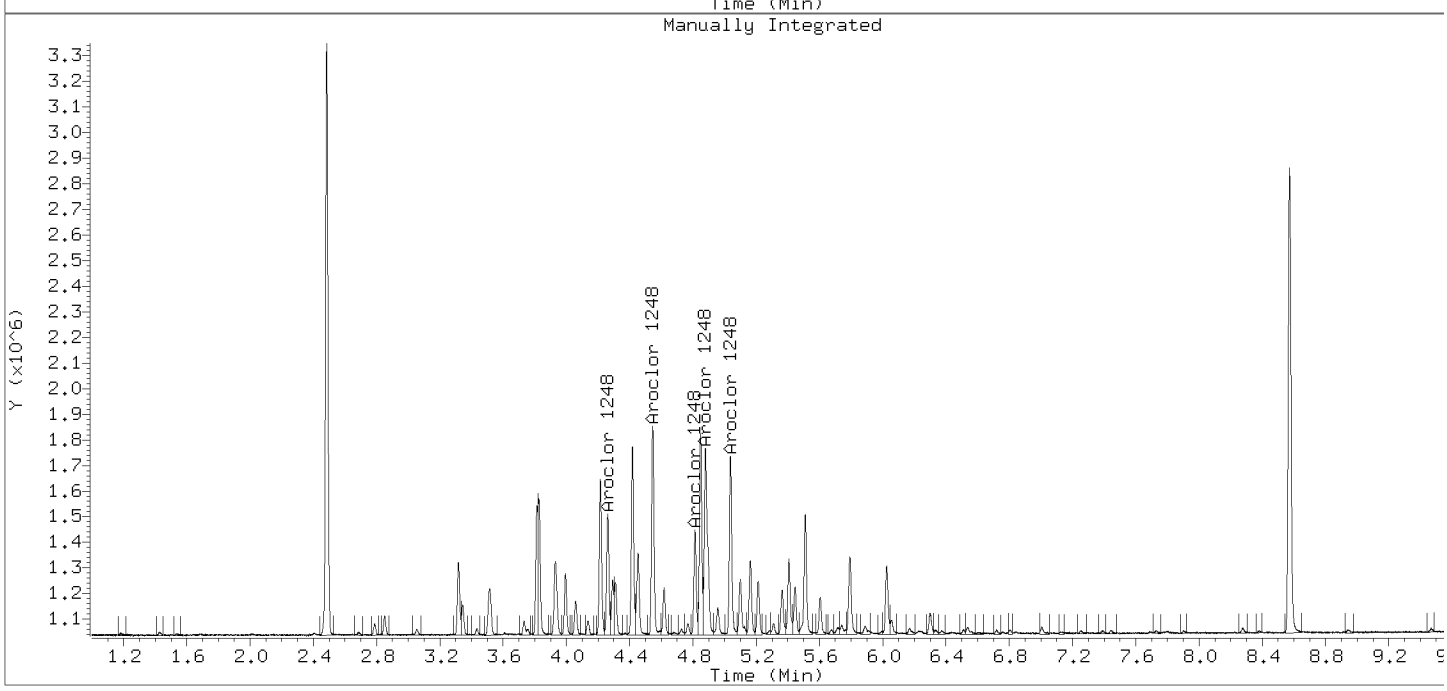
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618036.D
Date : 06-MAR-2018 15:37
Client ID: 1248-CAL2D
Sample Info: 1248-CAL2D, 185548:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 15:53

Client ID: 1248-CAL3D

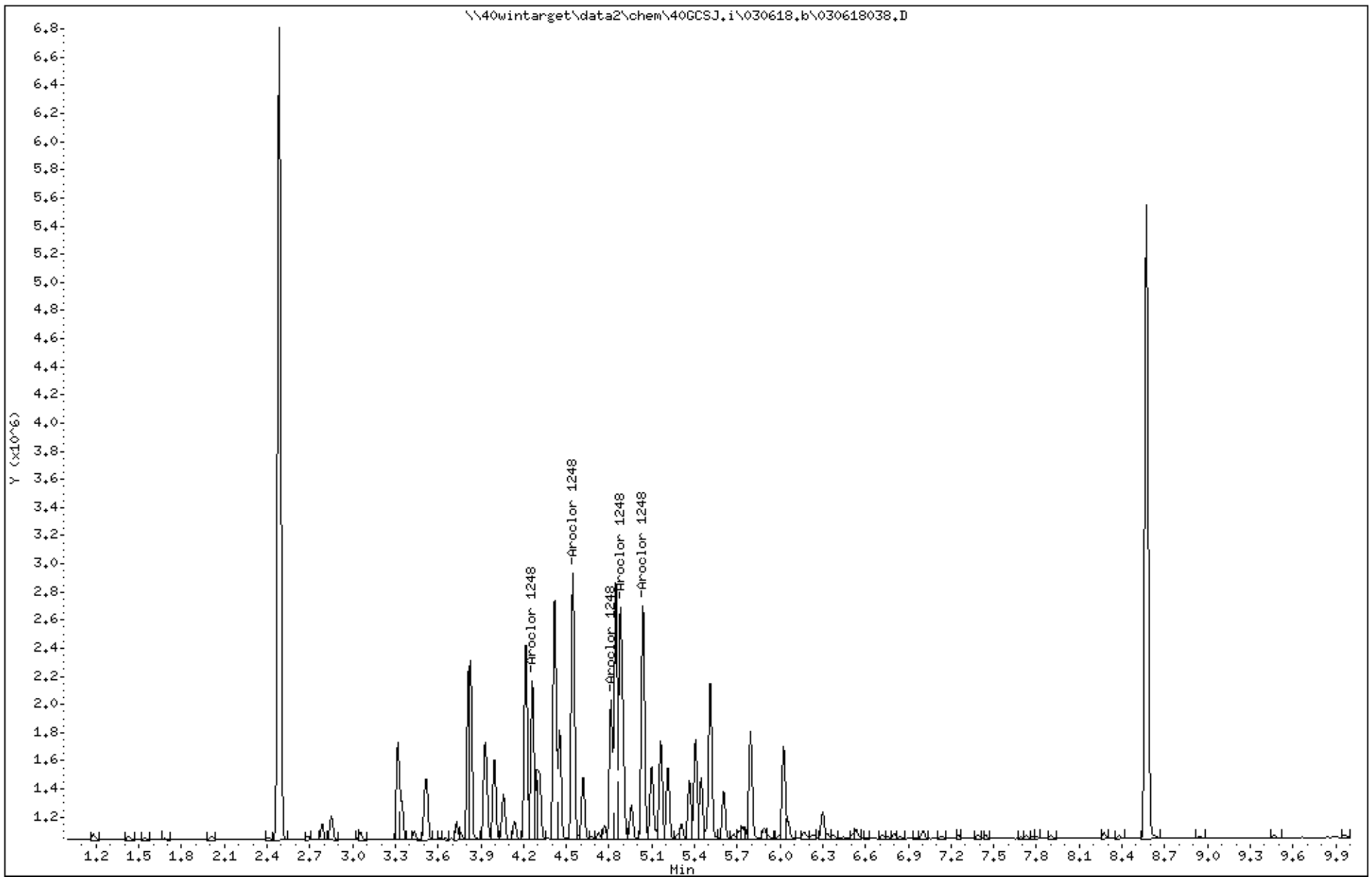
Instrument: 40GCSJ.i

Sample Info: 1248-CAL3D, 185549:1

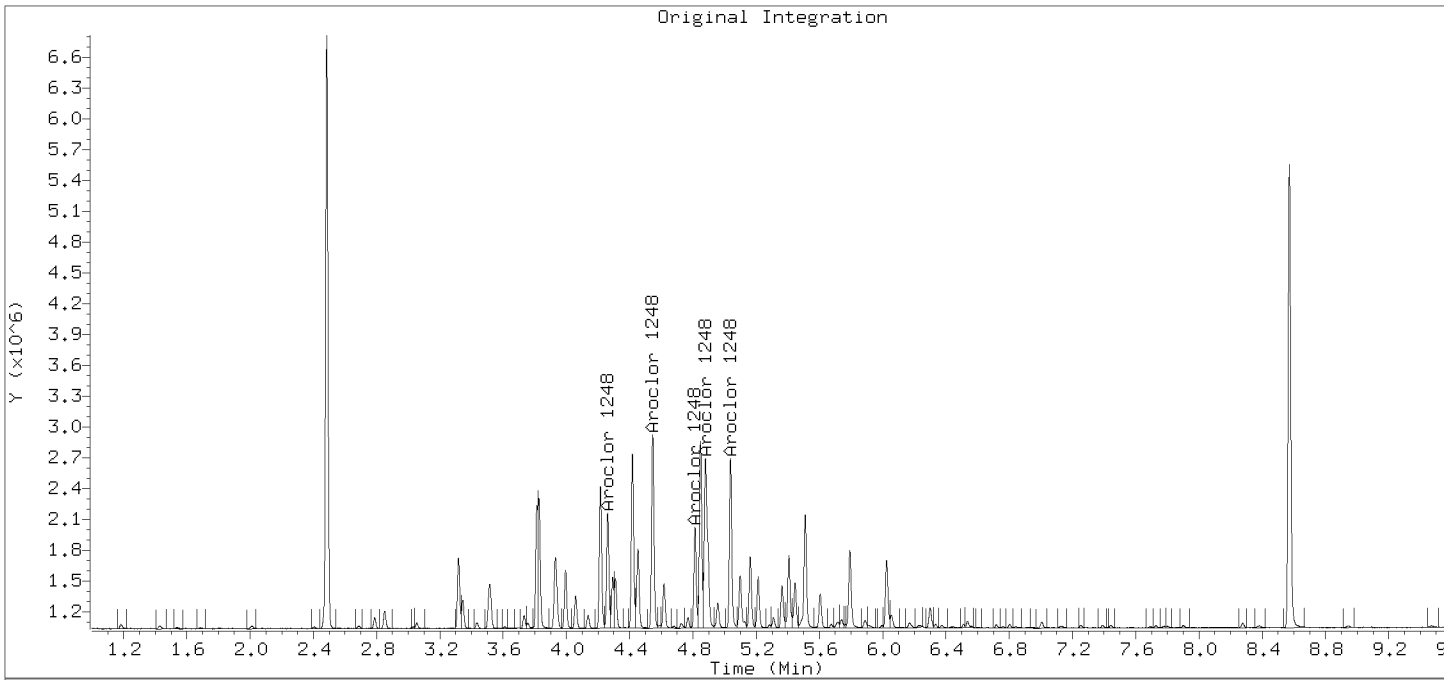
Operator: BLM

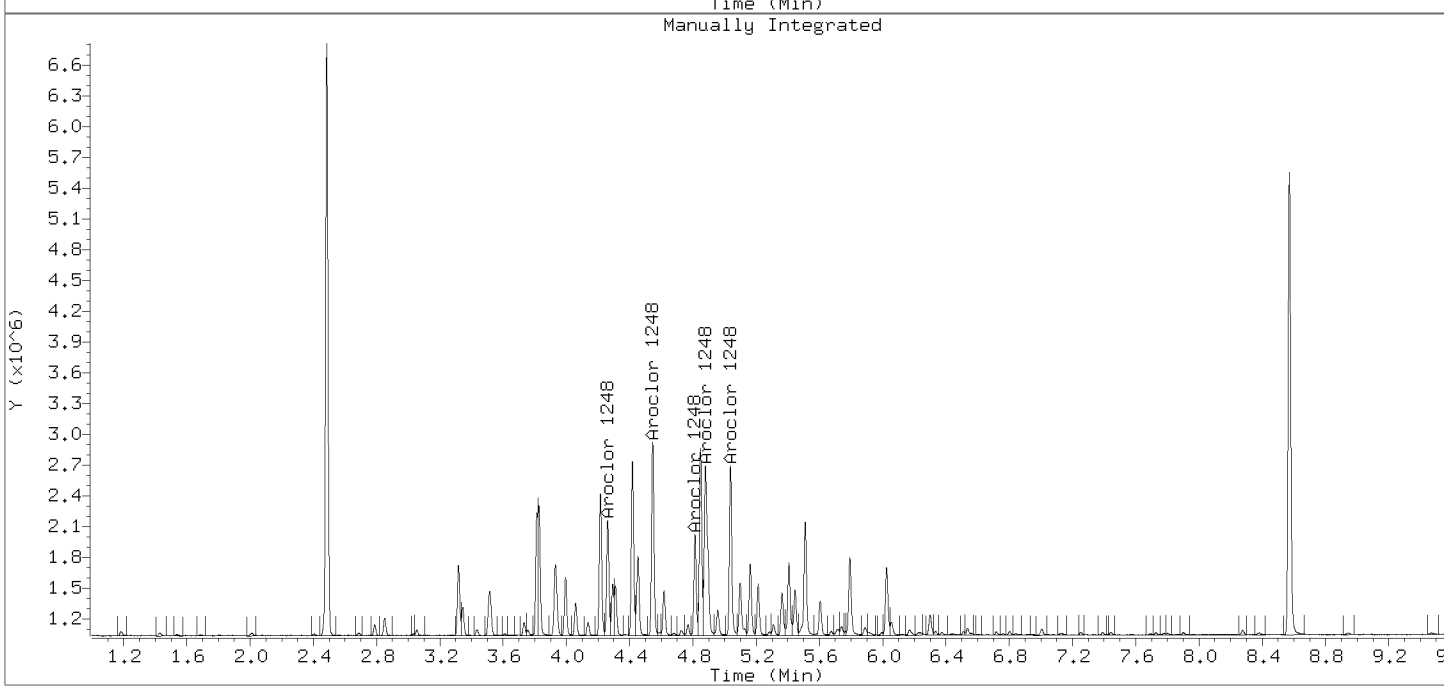
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:09

Client ID: 1248-CAL4D

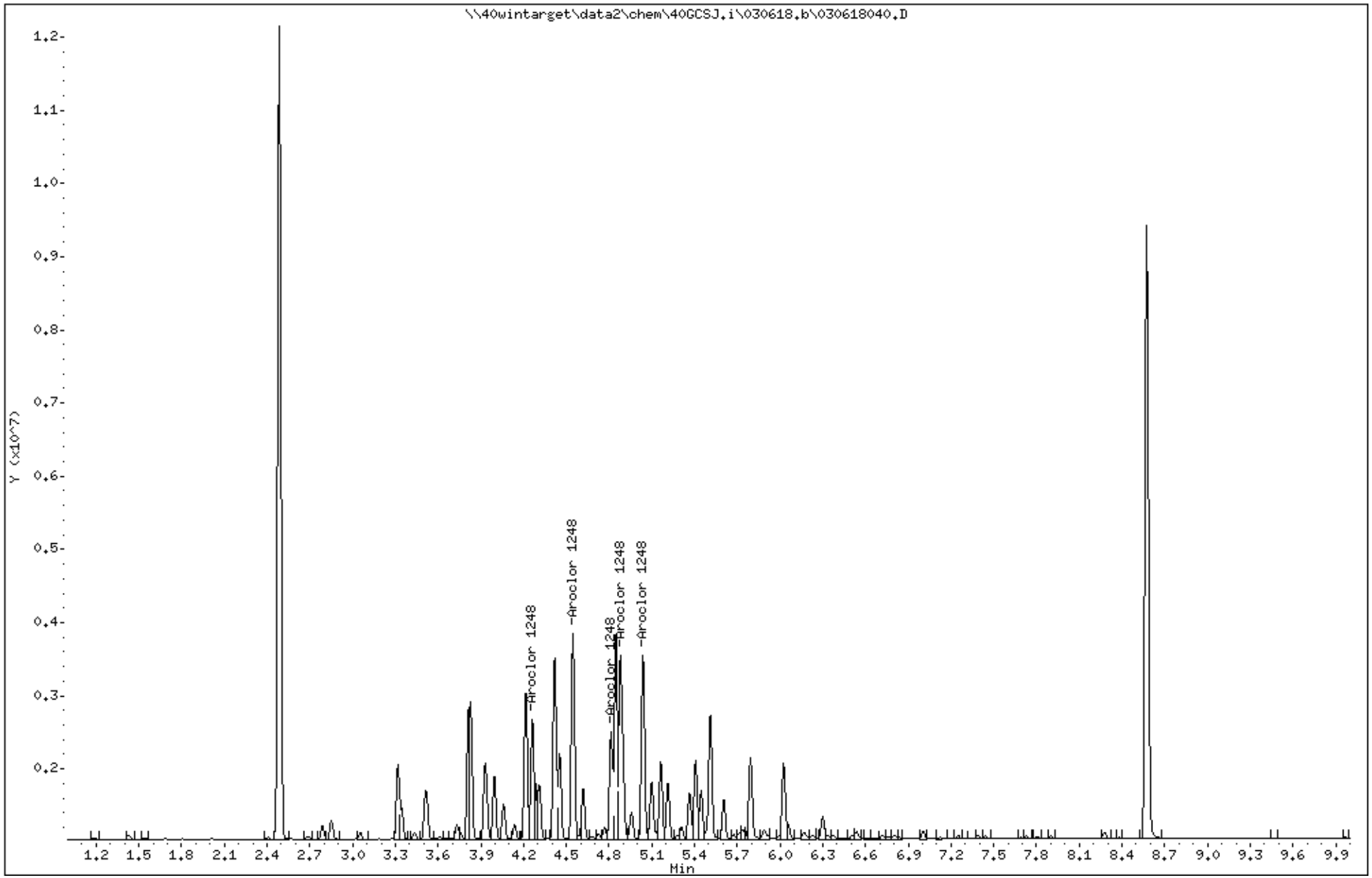
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

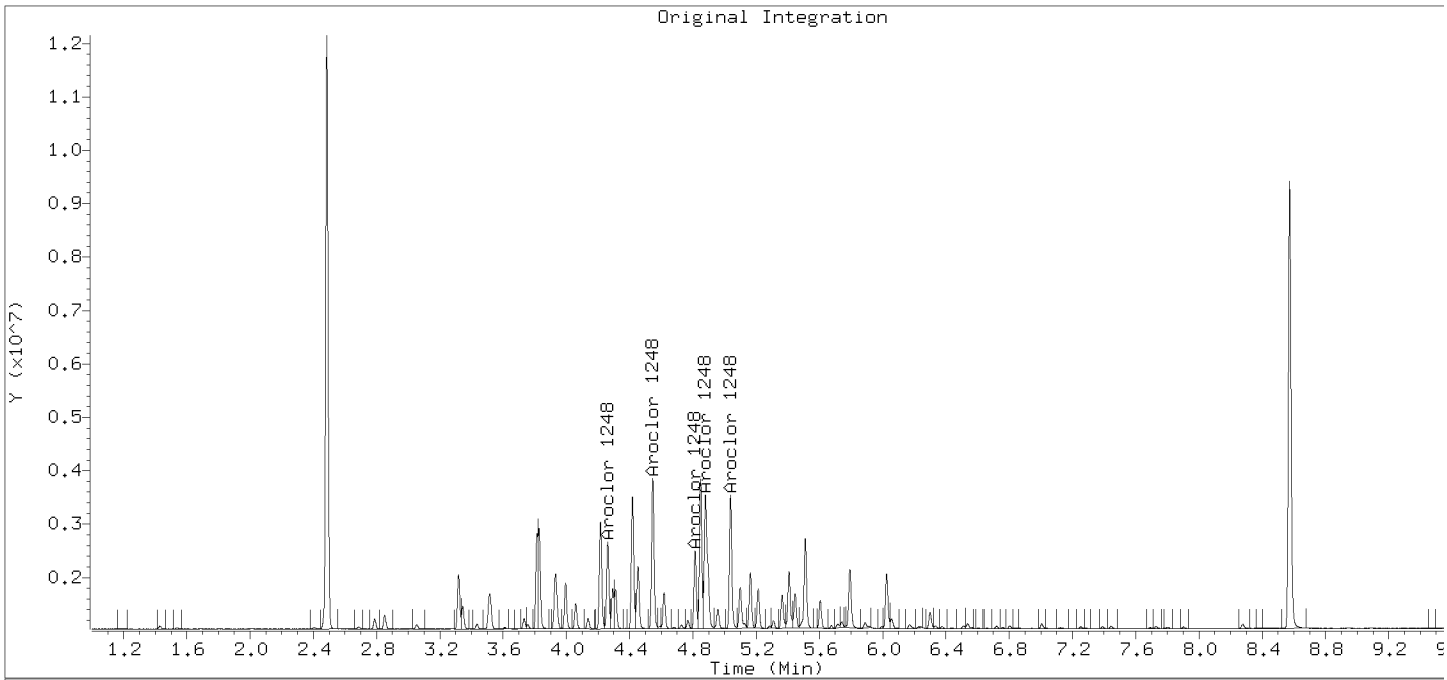
Operator: BLM

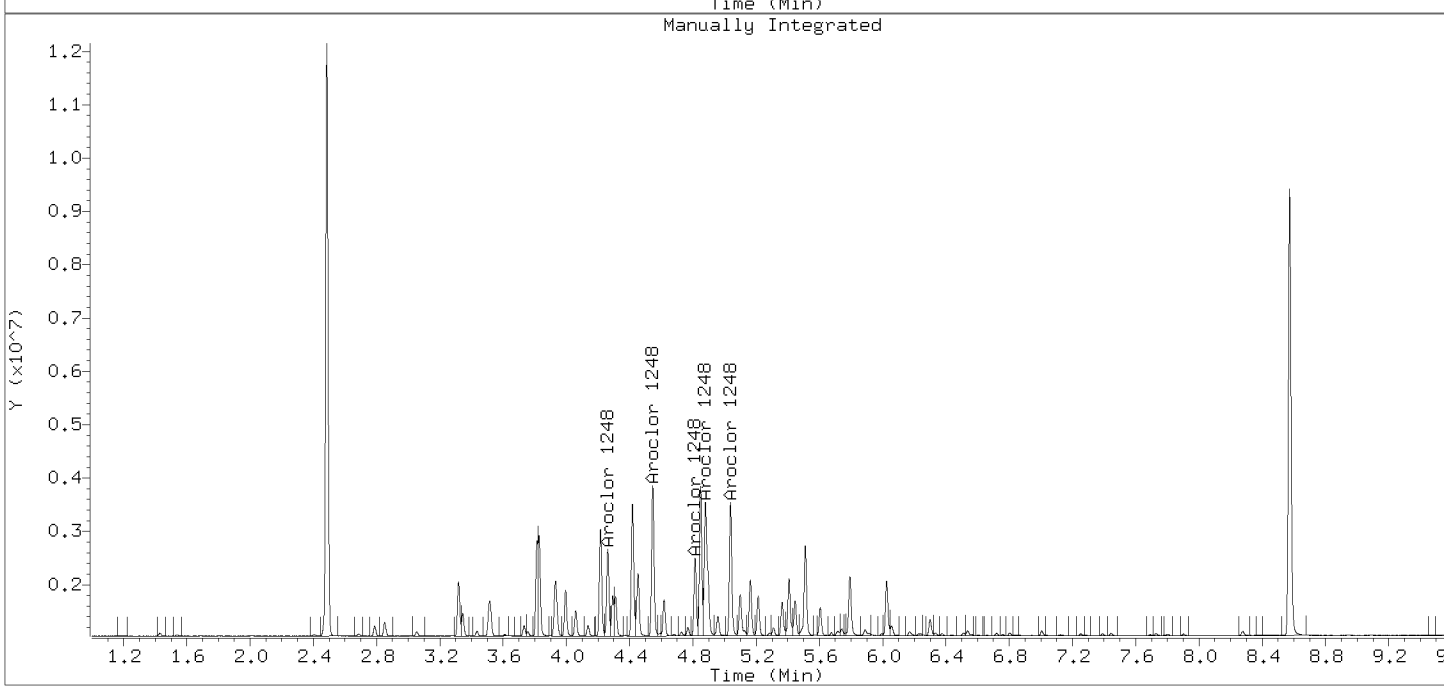
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

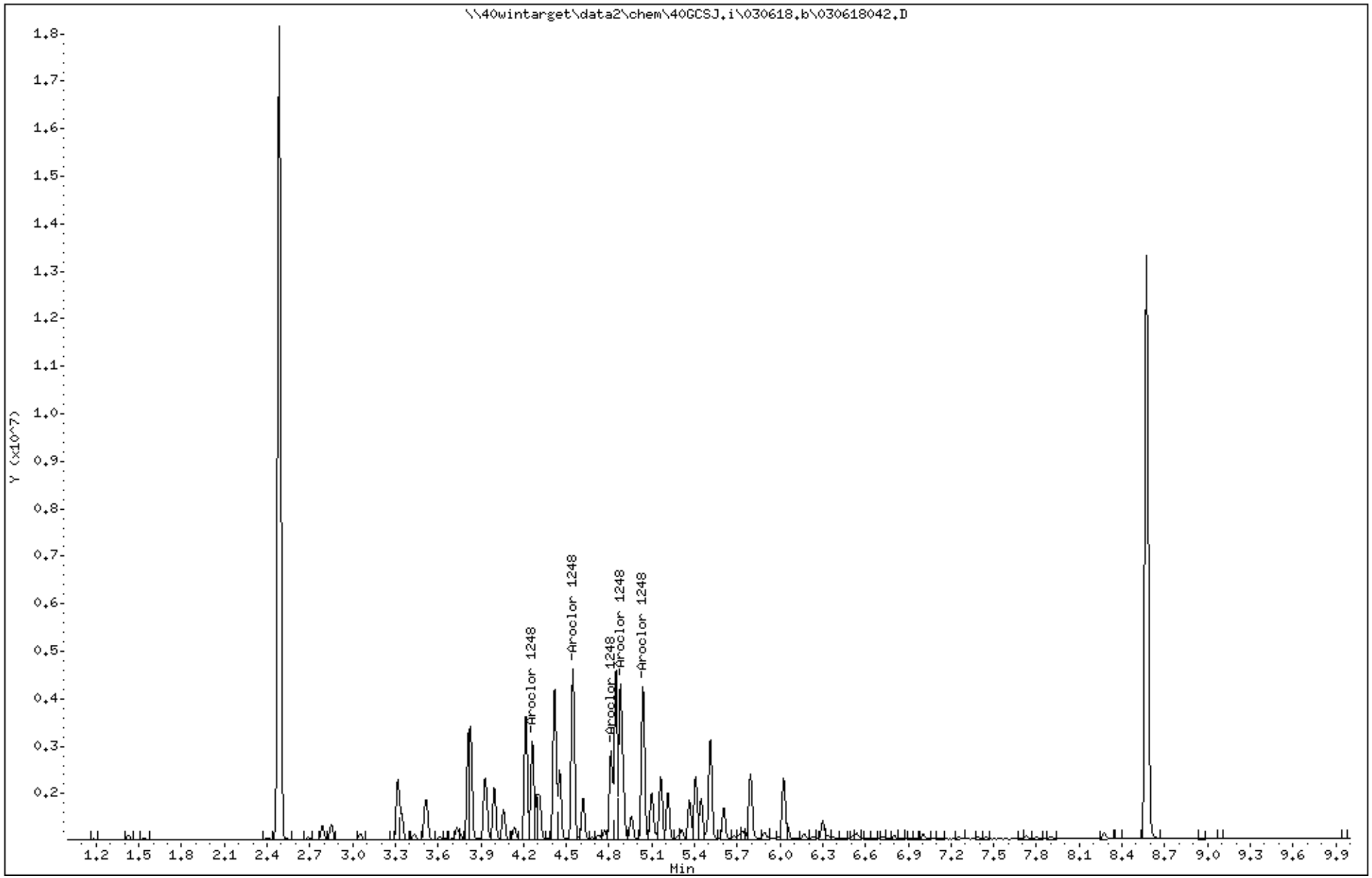
M - Compound response manually integrated.

Review Codes Legend

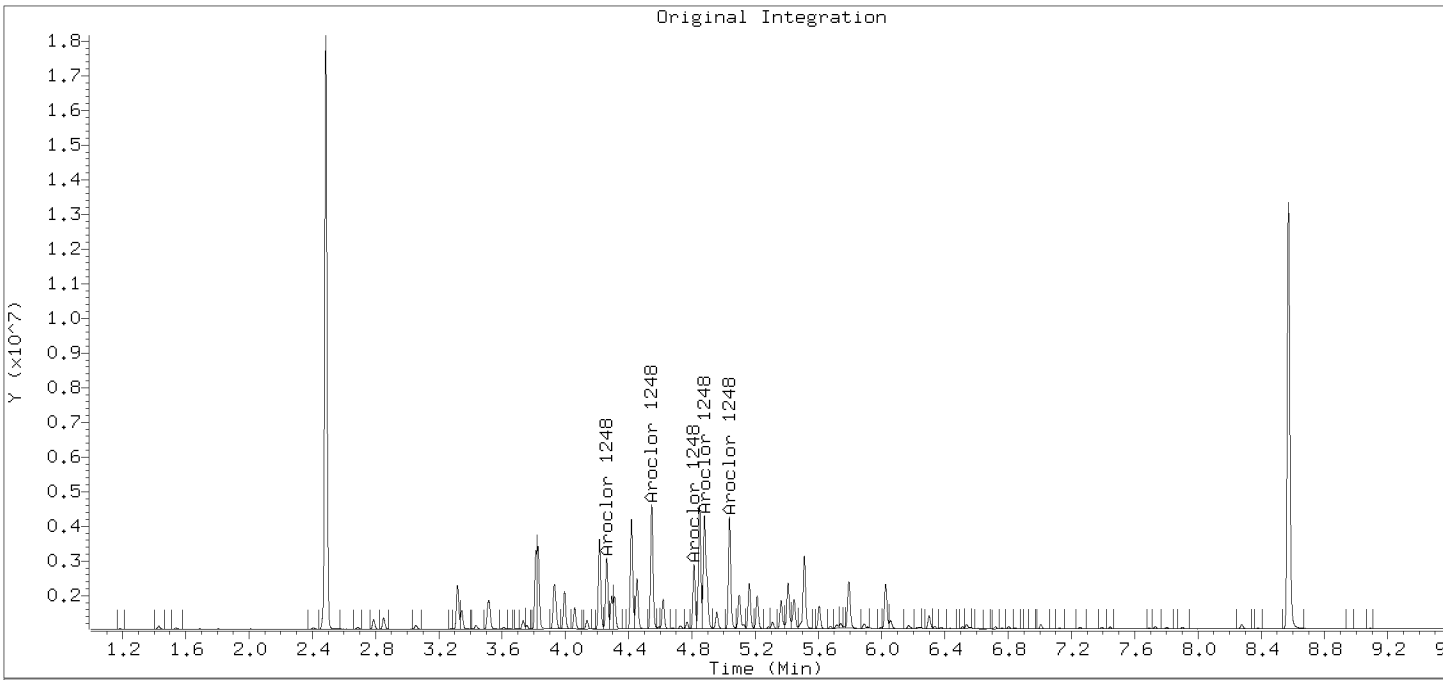
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

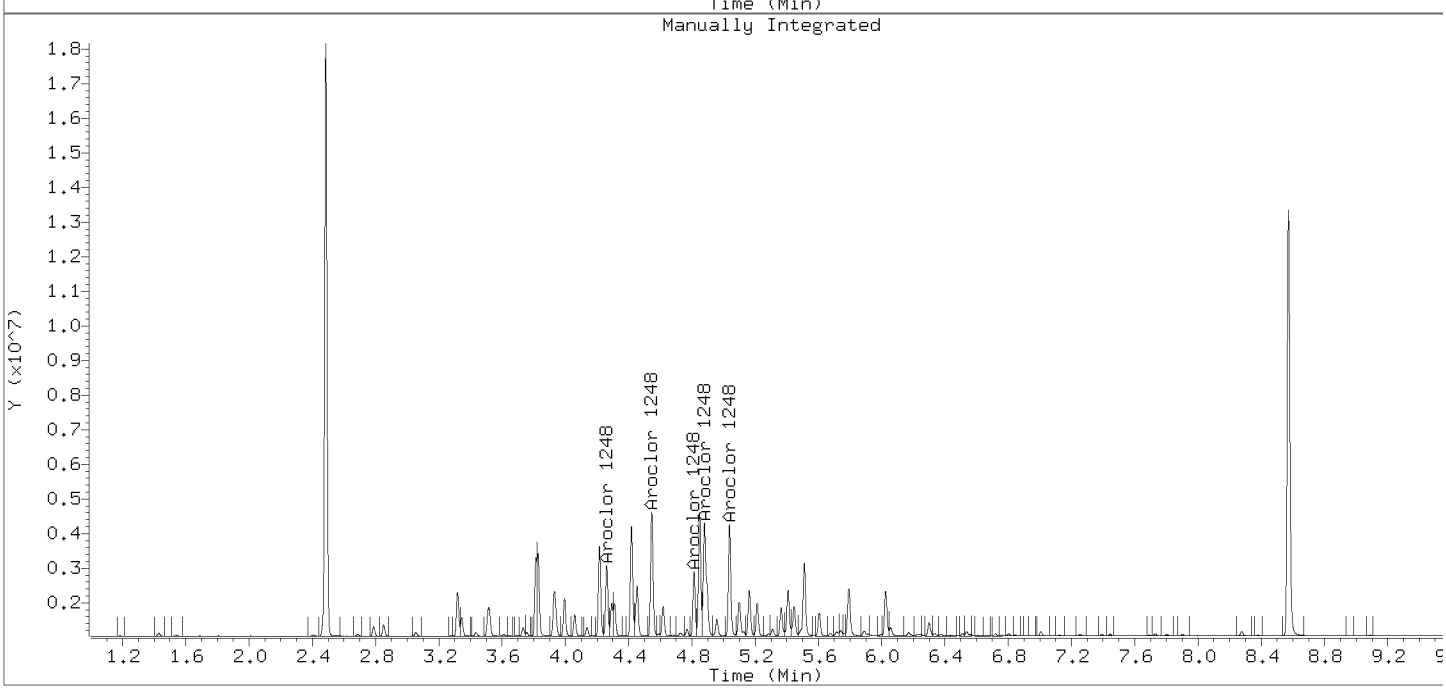
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Date : 06-MAR-2018 16:25
Client ID: 1248-CAL5D
Sample Info: 1248-CAL5D, 185551:1

Instrument: 40GCSJ.i
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

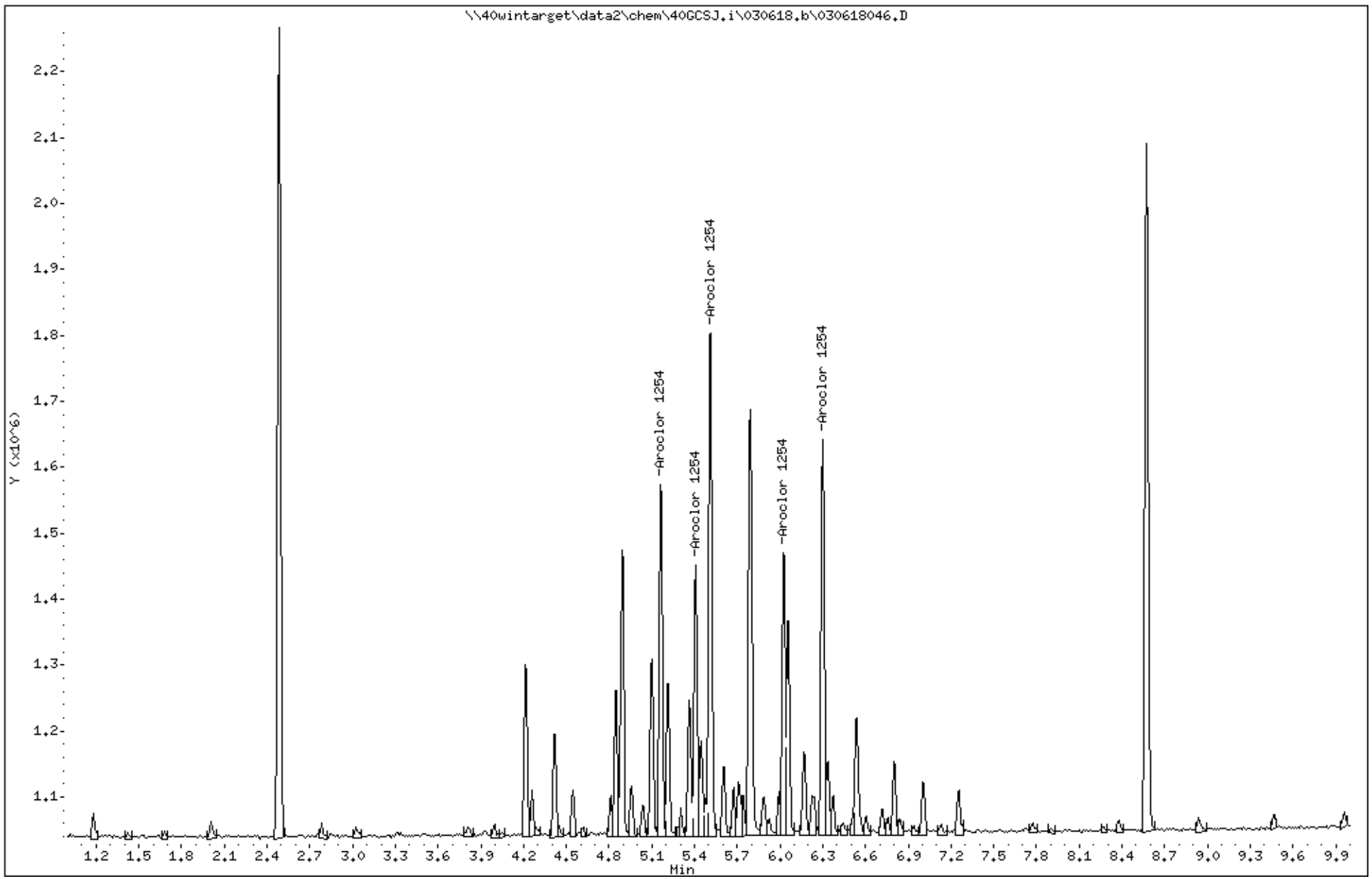
Instrument: 40GCSJ.i

Sample Info: 1254-CAL1C, 188135:1

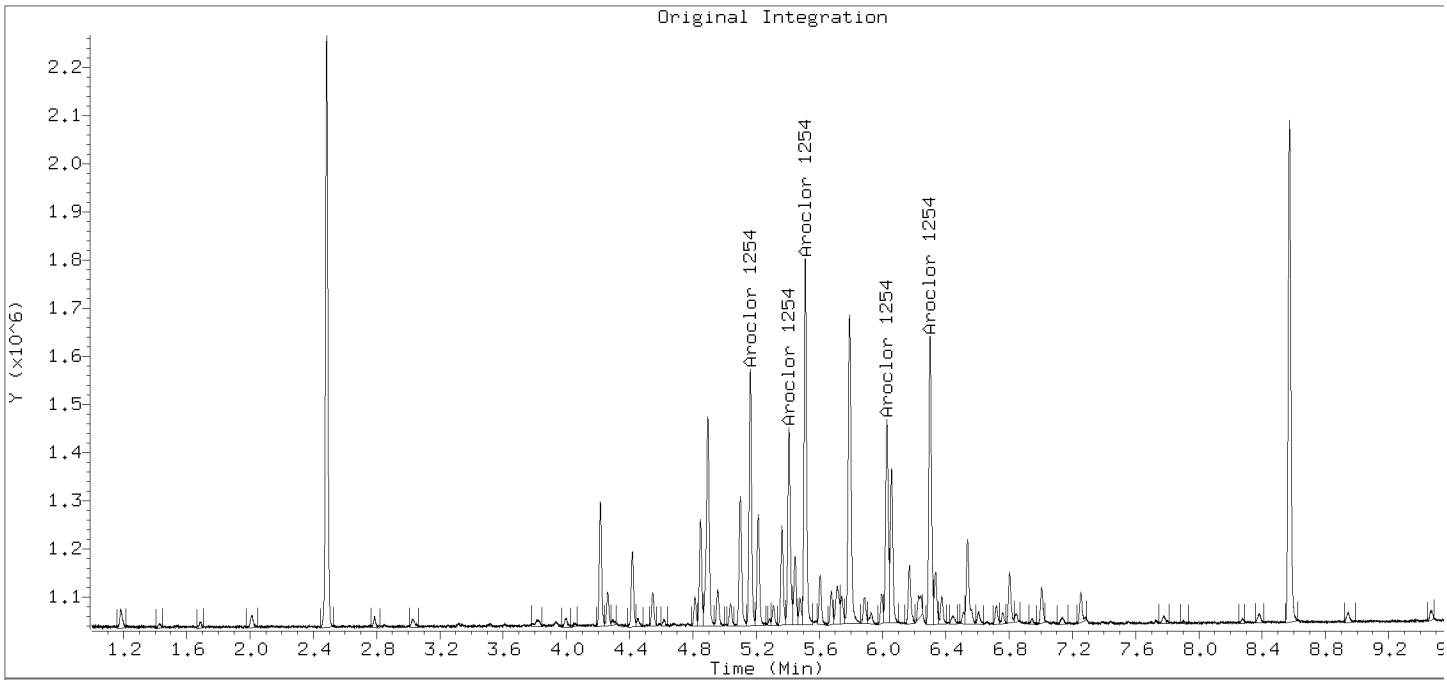
Operator: BLM

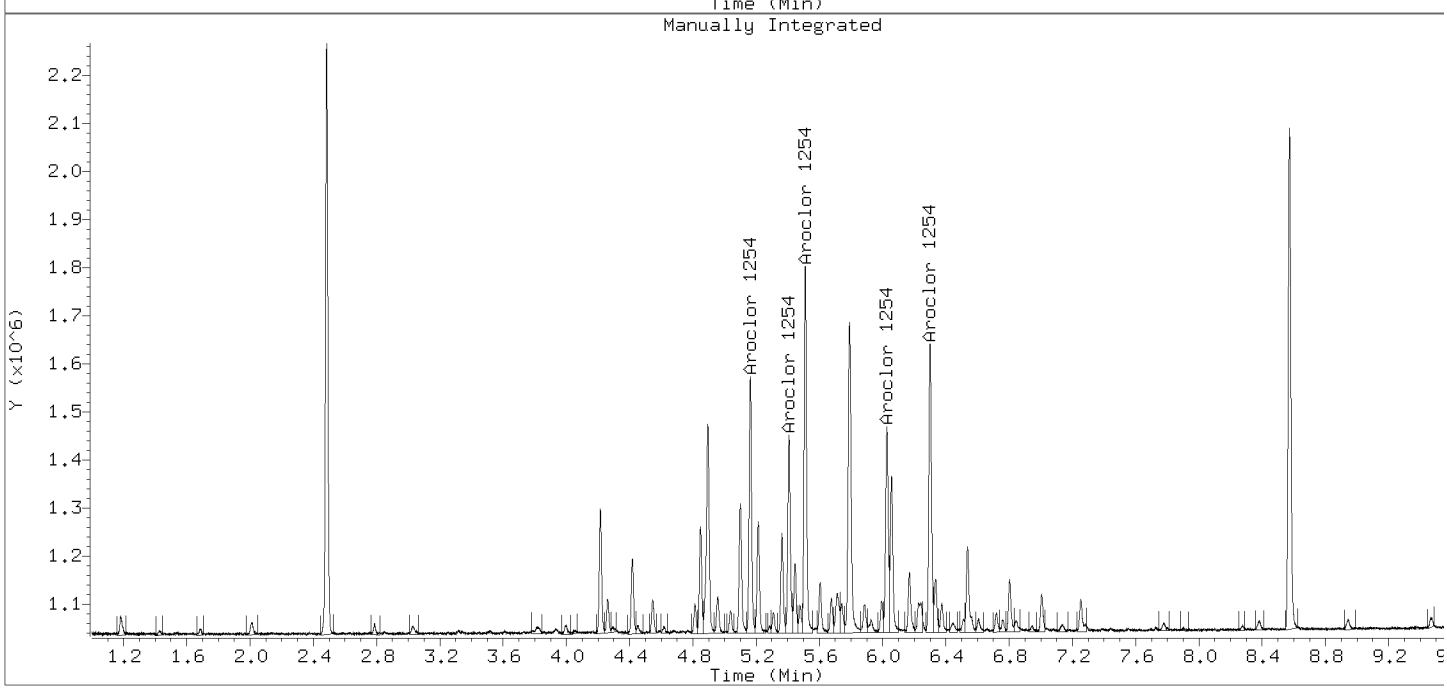
Column phase: ZB-1ms

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

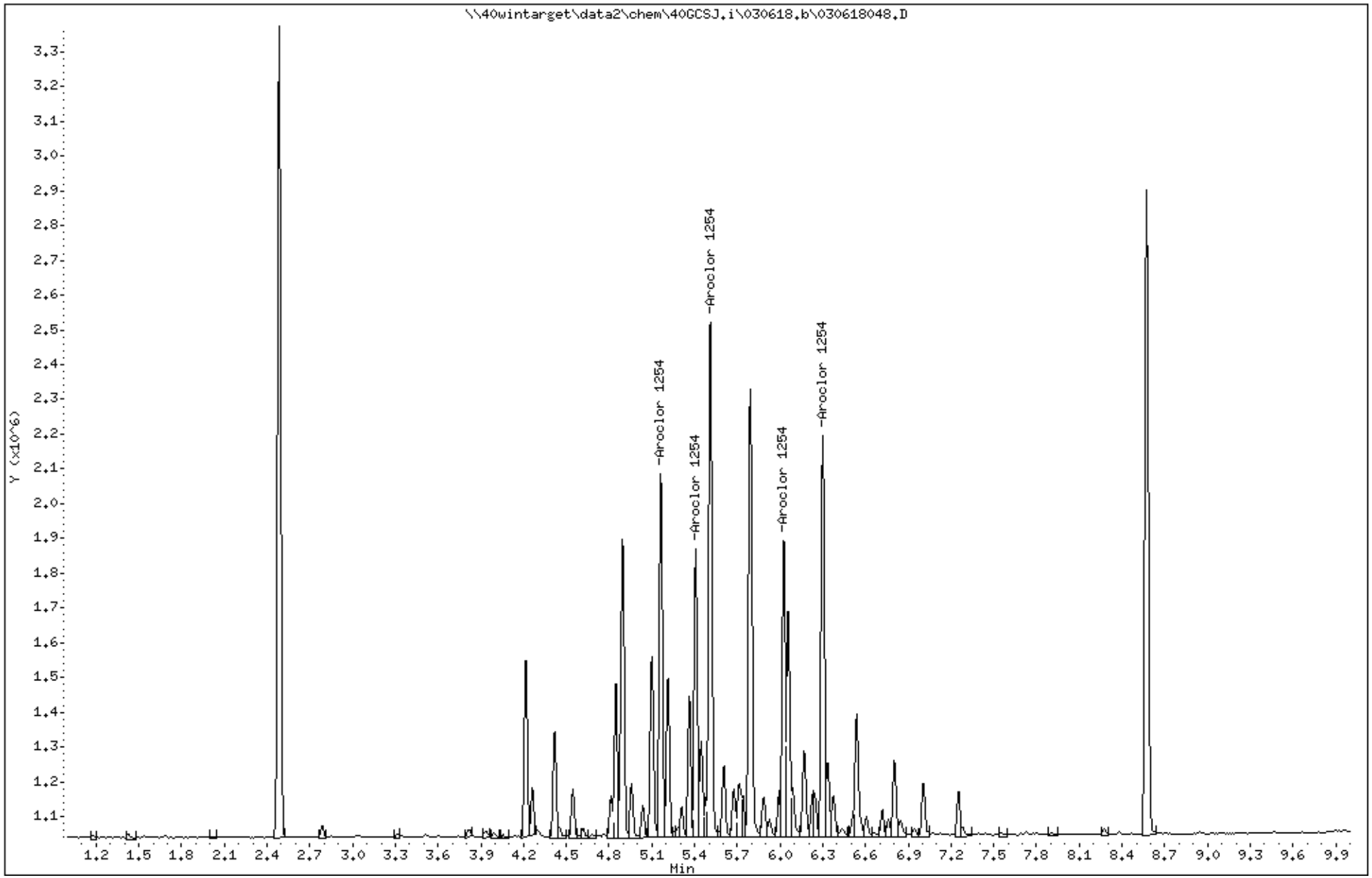
M - Compound response manually integrated.

Review Codes Legend

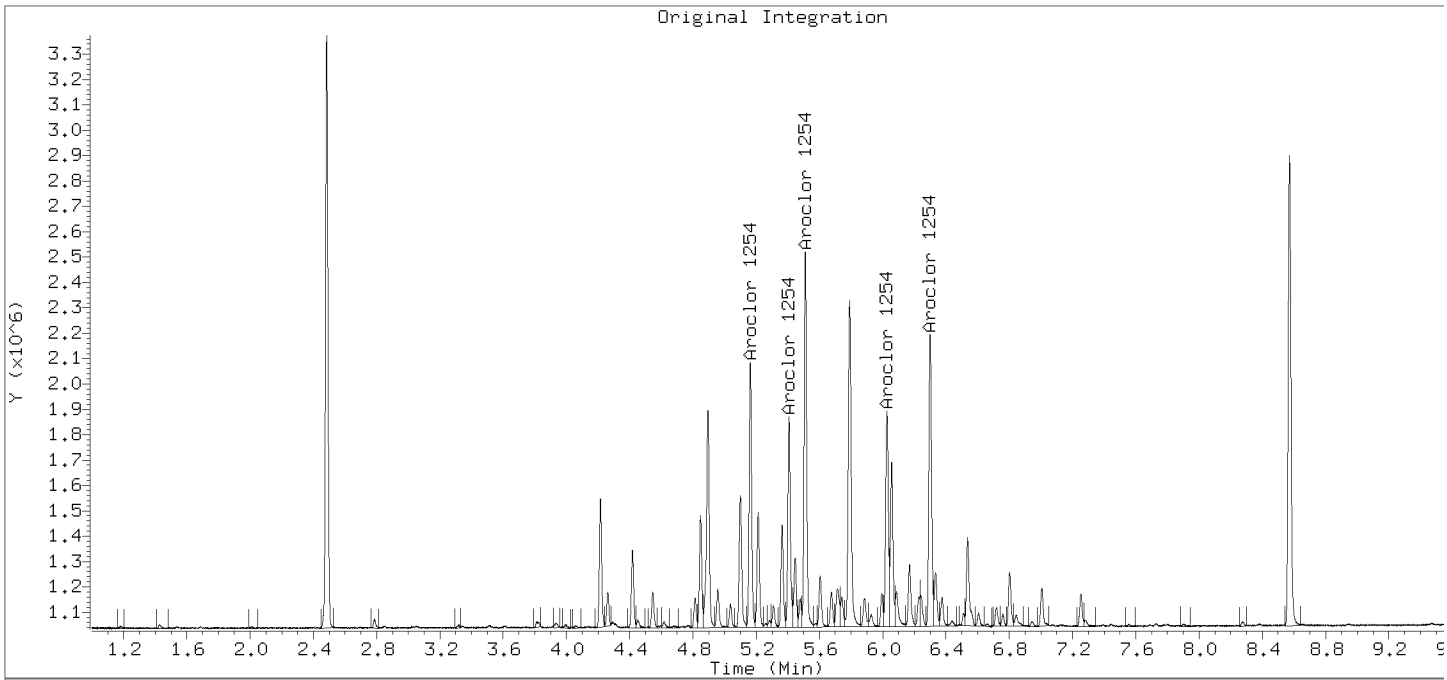
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

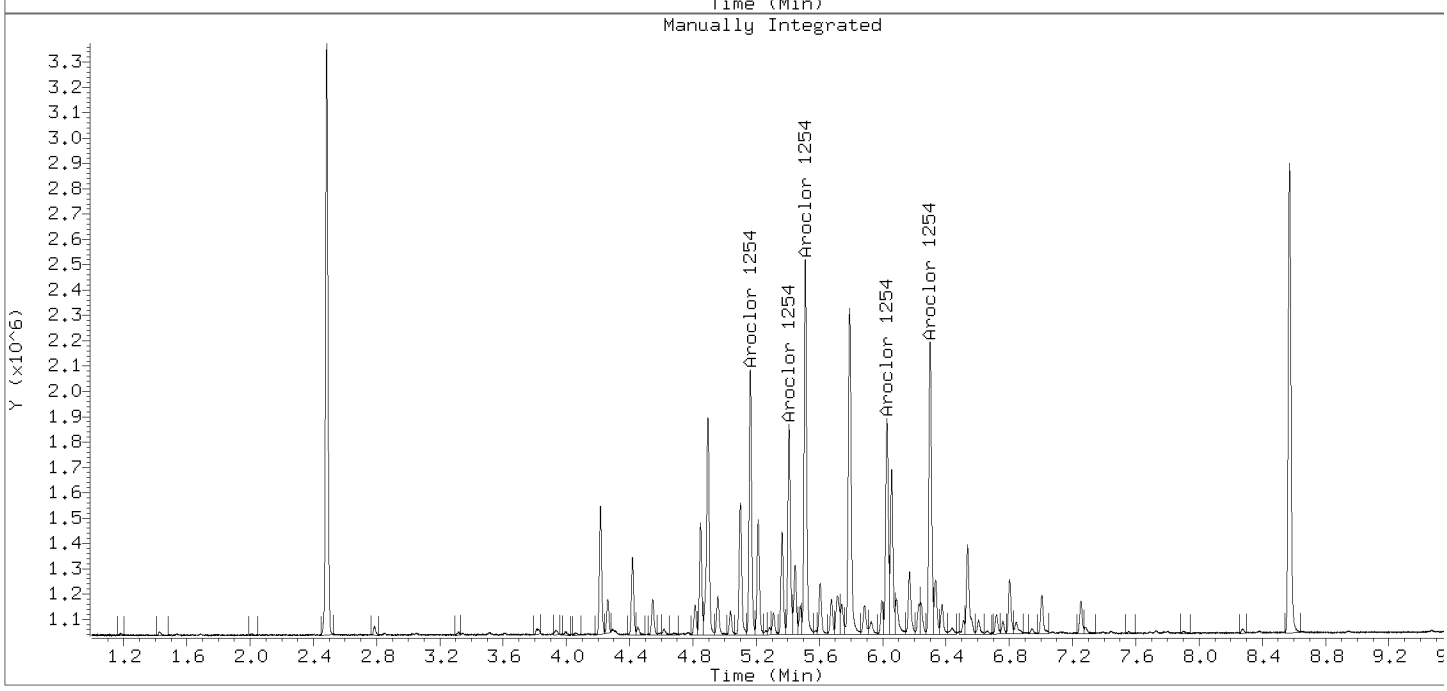
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Date : 06-MAR-2018 17:13
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

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

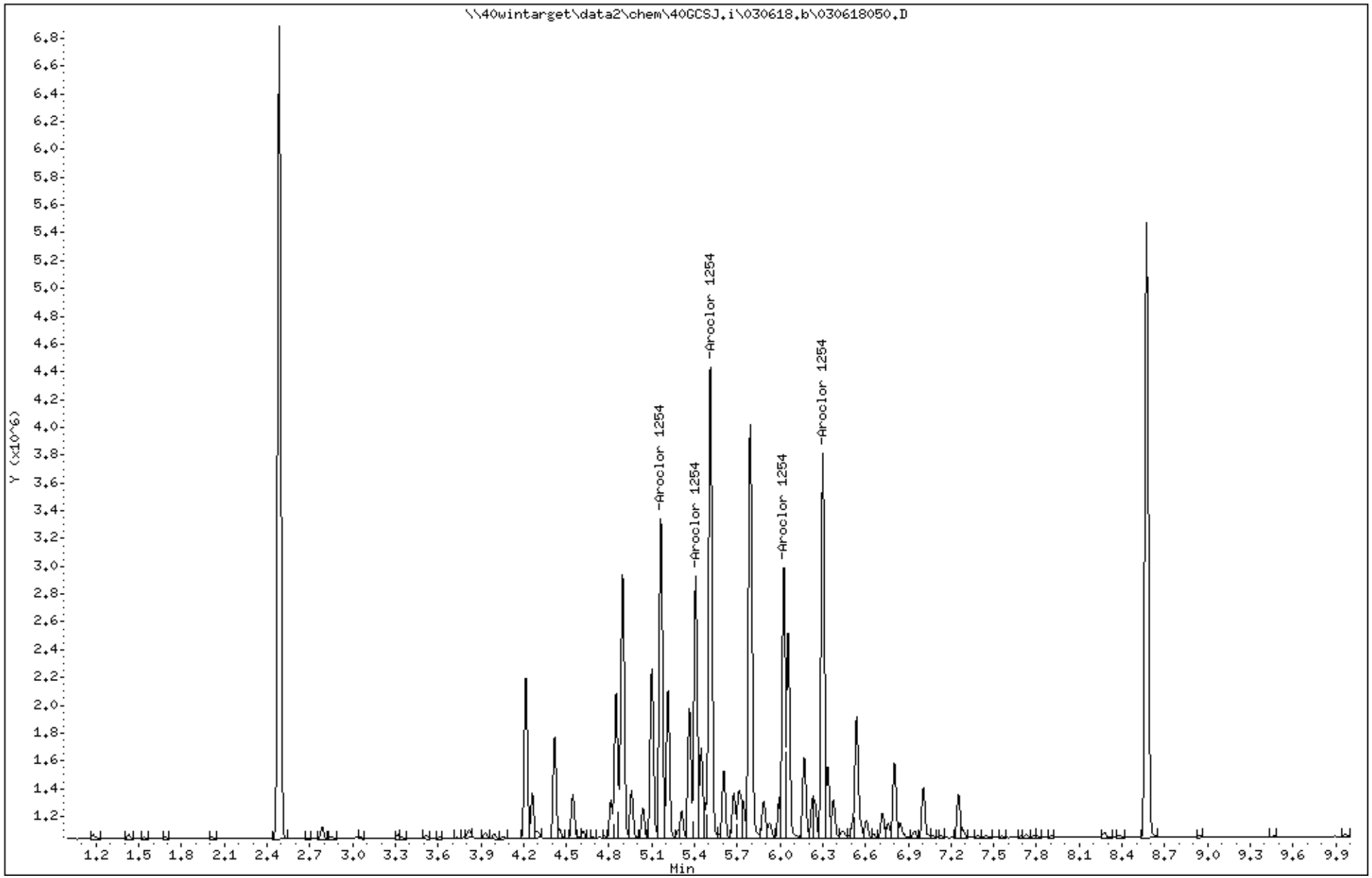
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

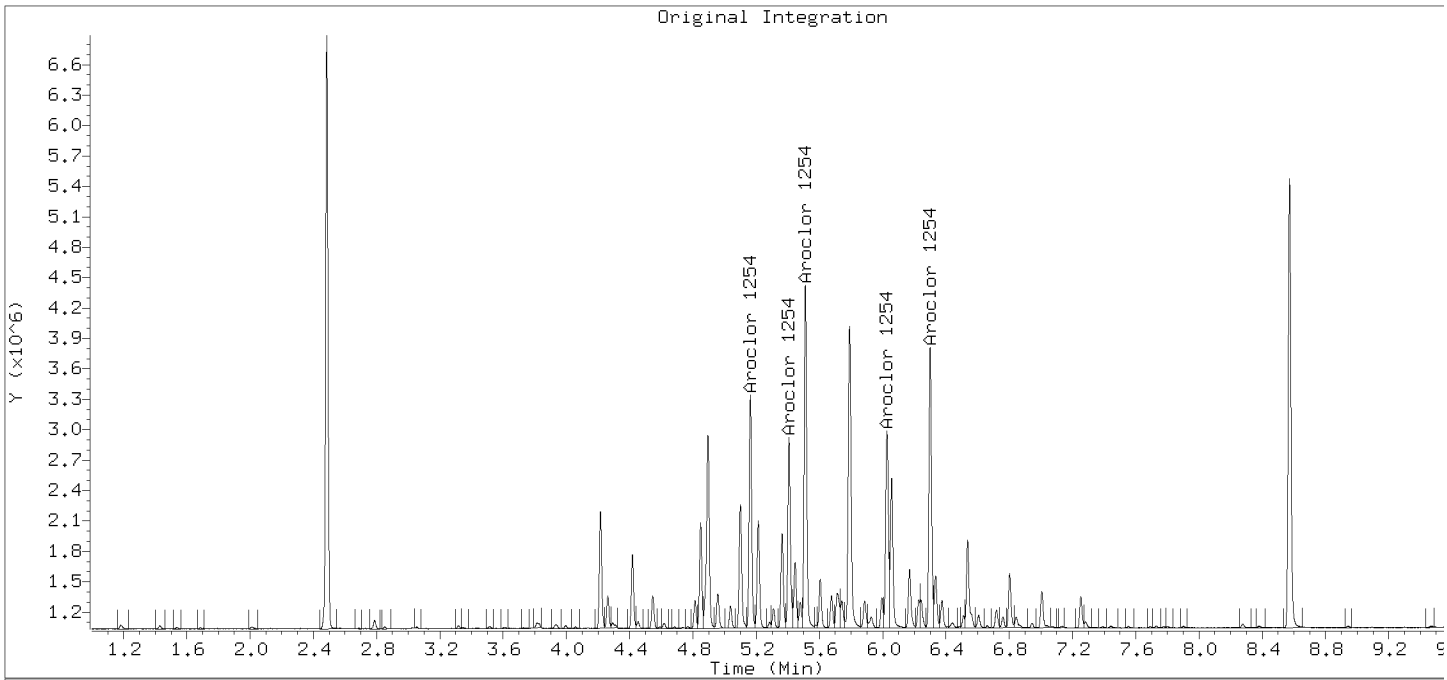
Operator: BLM

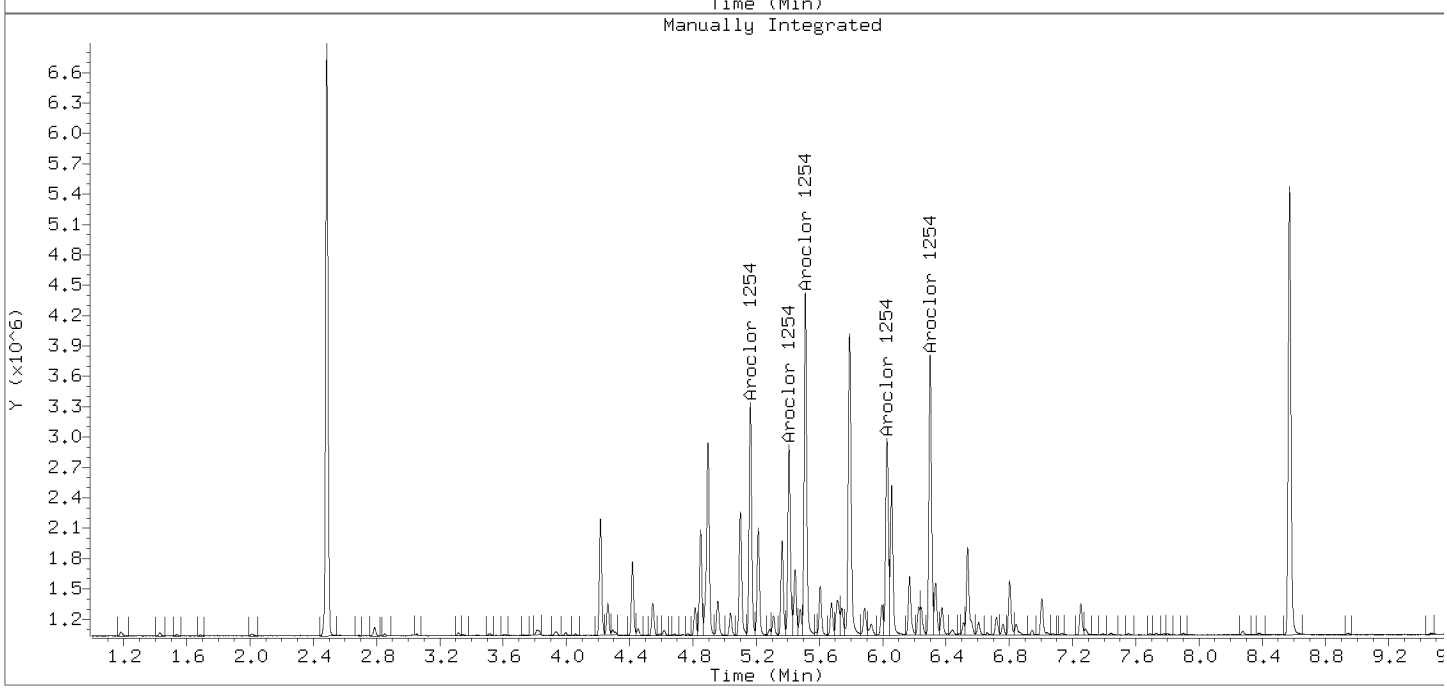
Column phase: ZB-1ms

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.

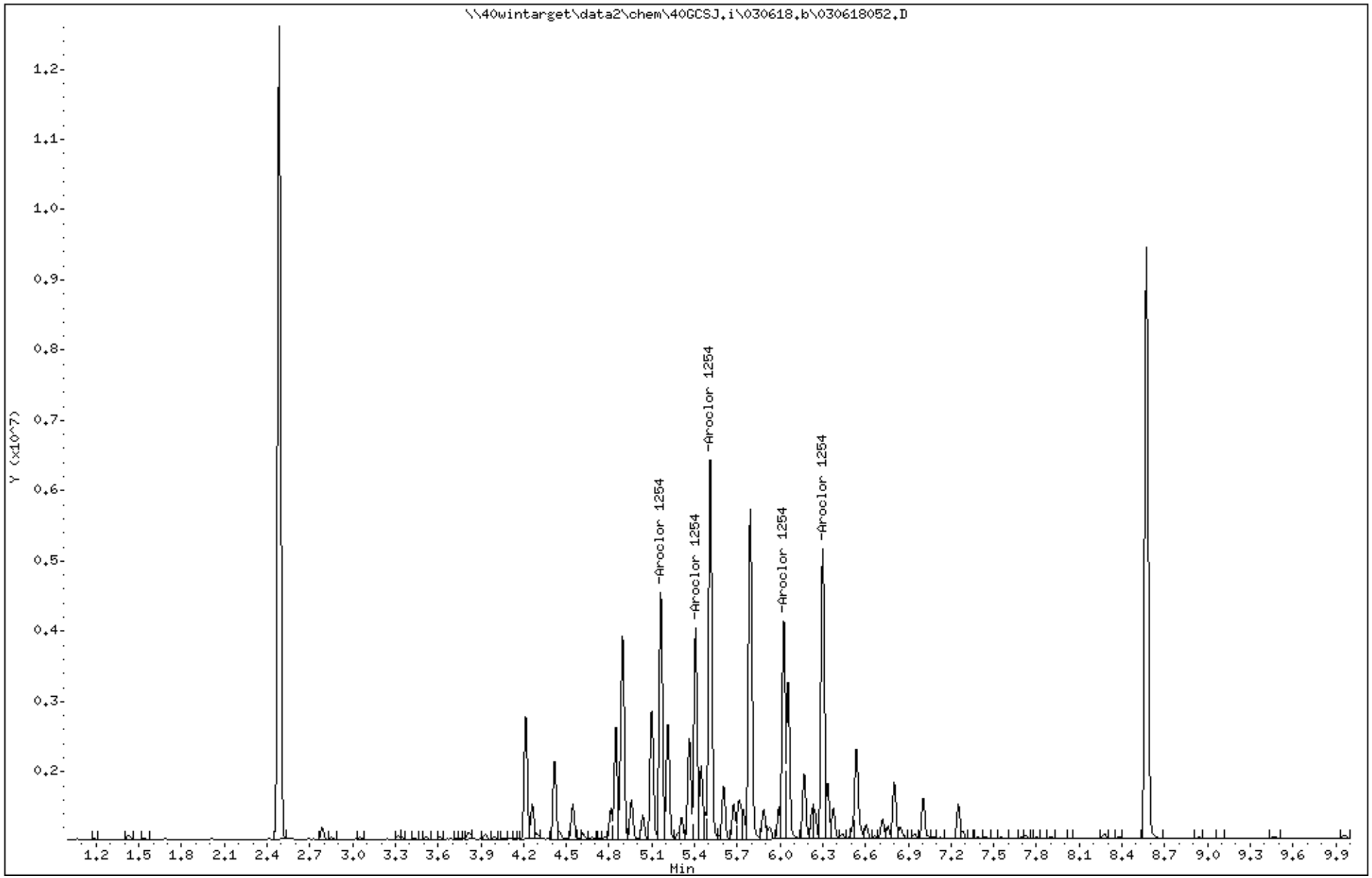
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618052.D
Date : 06-MAR-2018 17:46
Client ID: 1254-CAL4C
Sample Info: 1254-CAL4C, 185555:1

Instrument: 40GCSJ.i

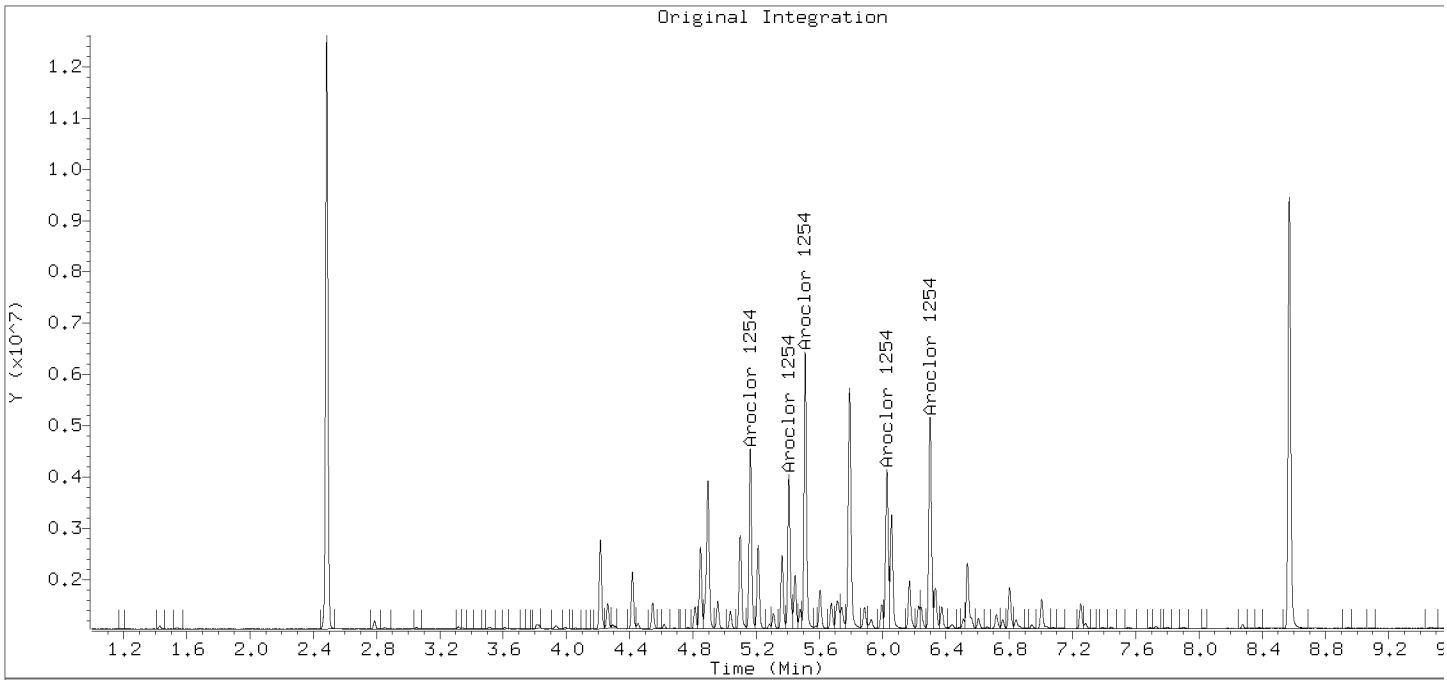
Operator: BLM

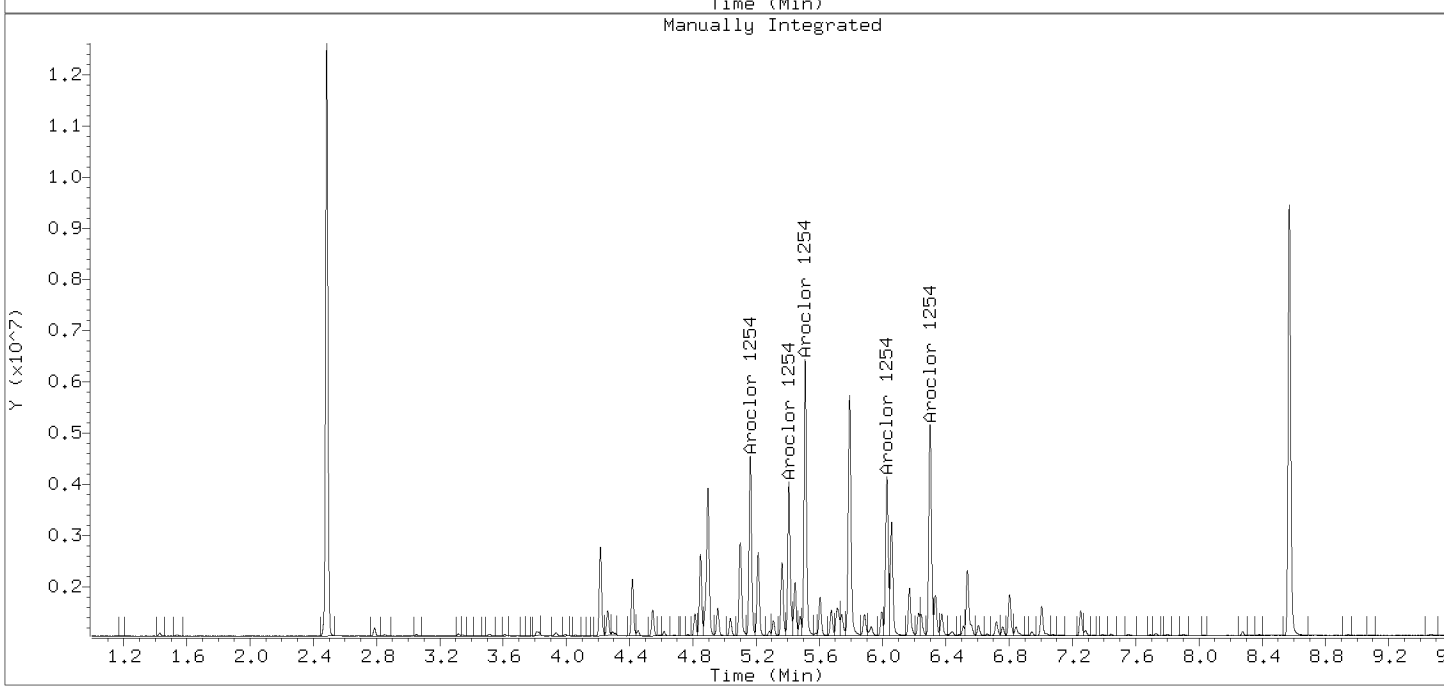
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 18:02

Client ID: 1254-CAL5C

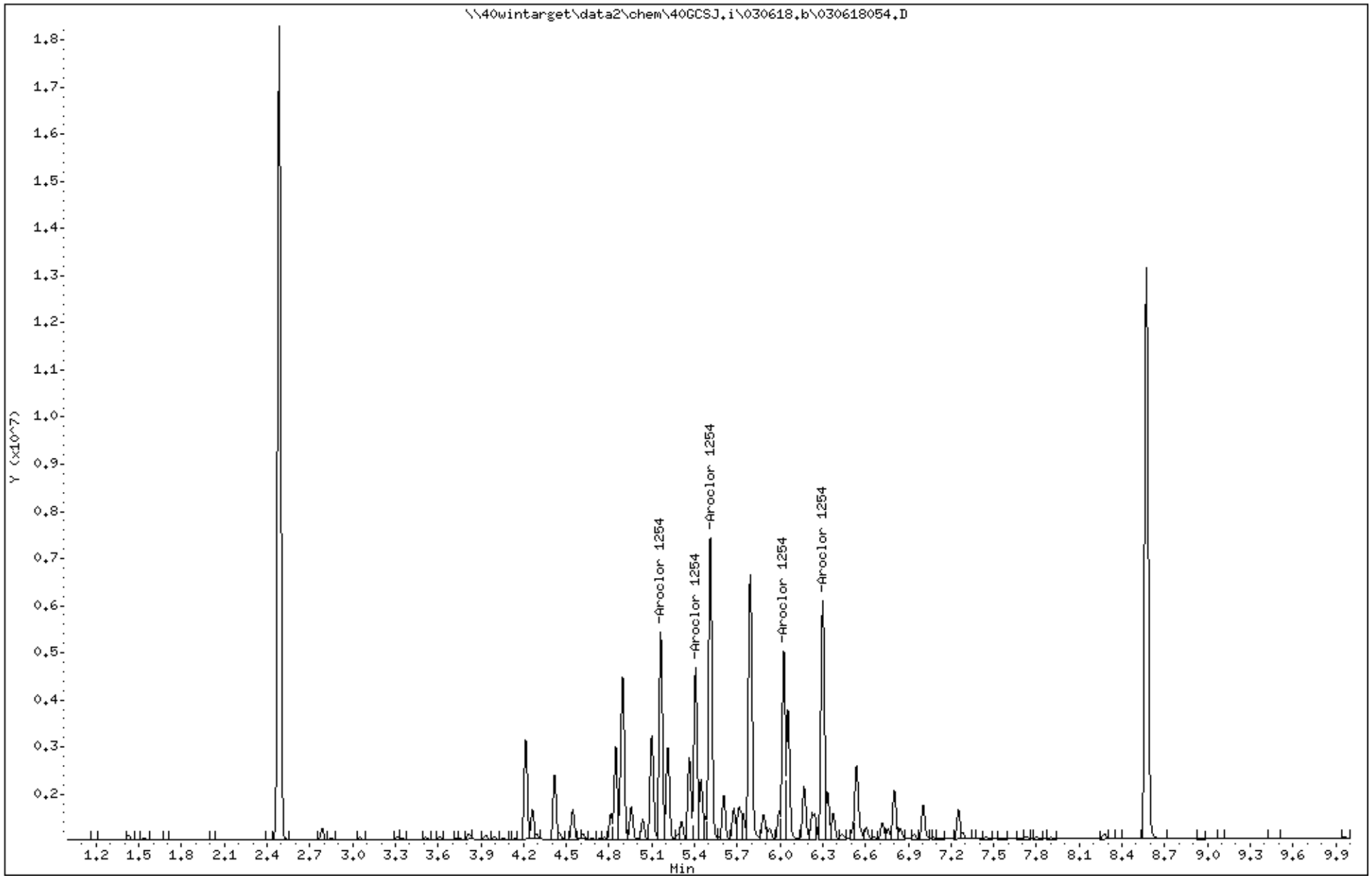
Instrument: 40GCSJ.i

Sample Info: 1254-CAL5C, 185556:1

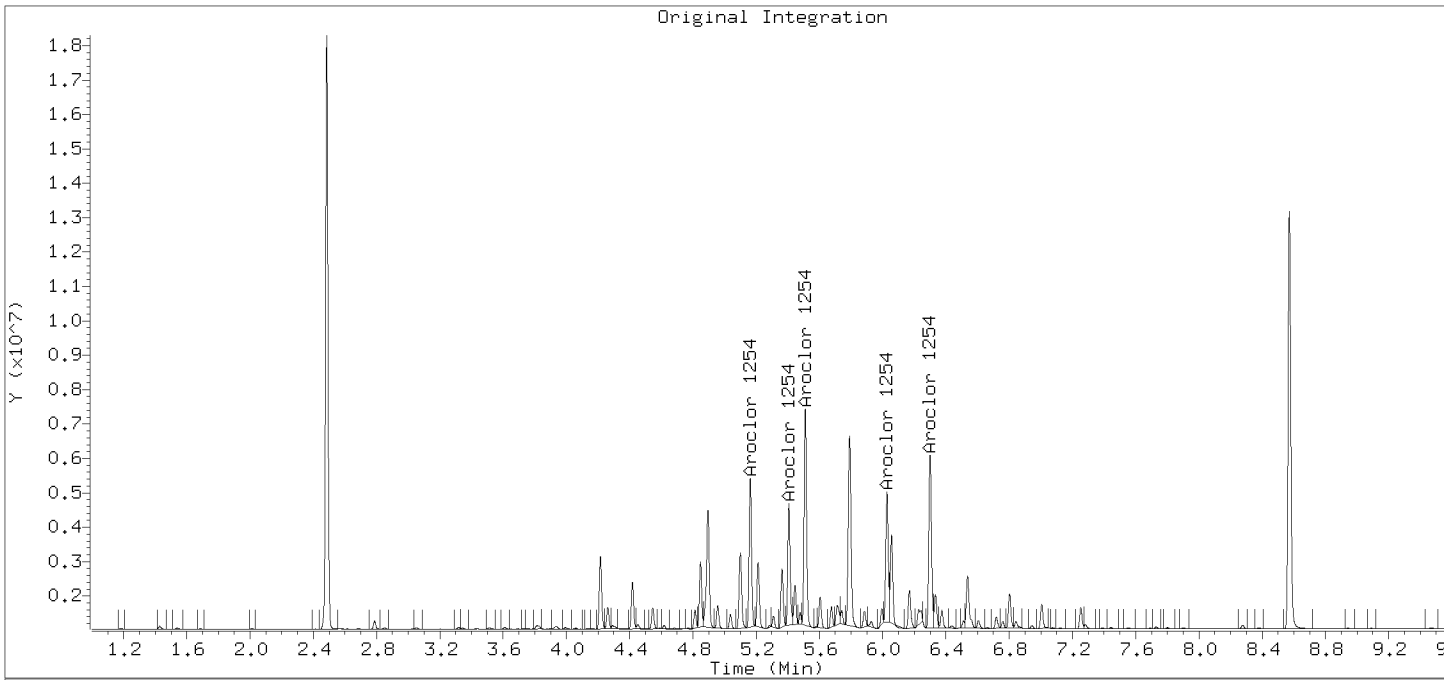
Operator: BLM

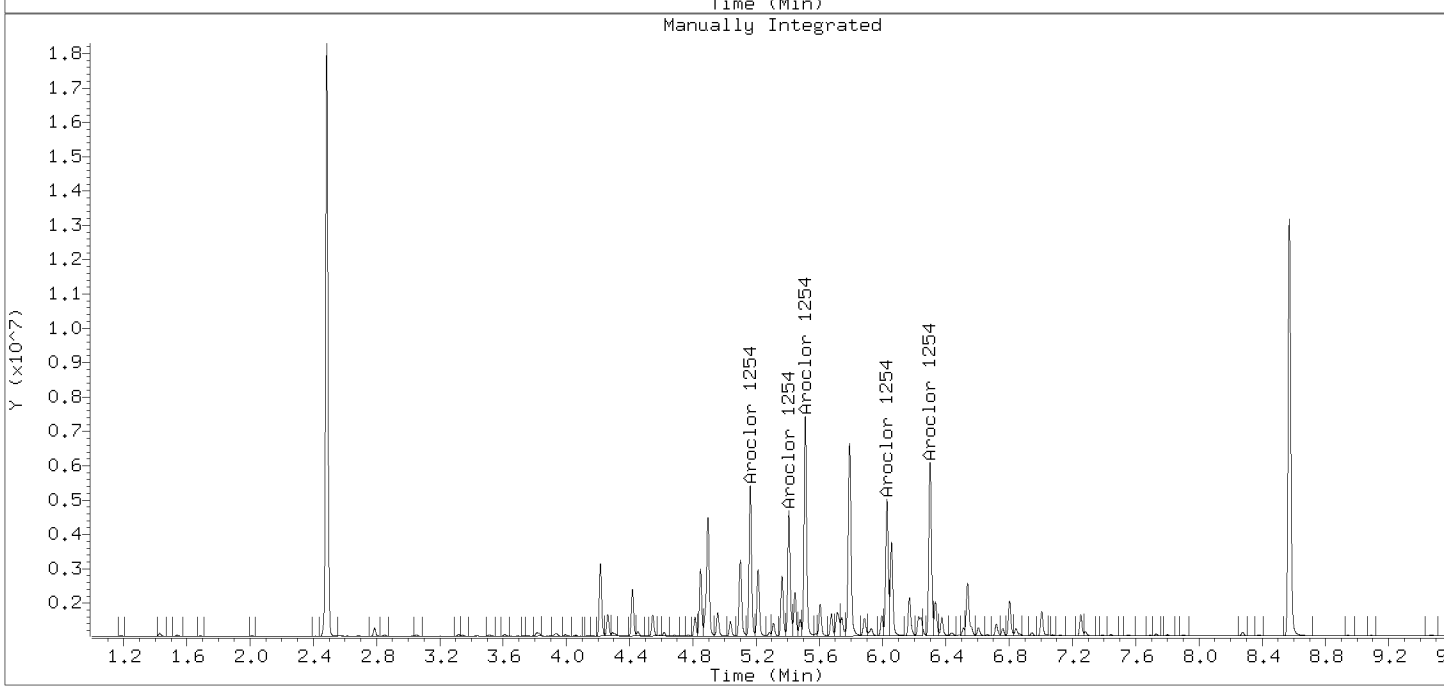
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:34

Client ID: 1660-CAL1A

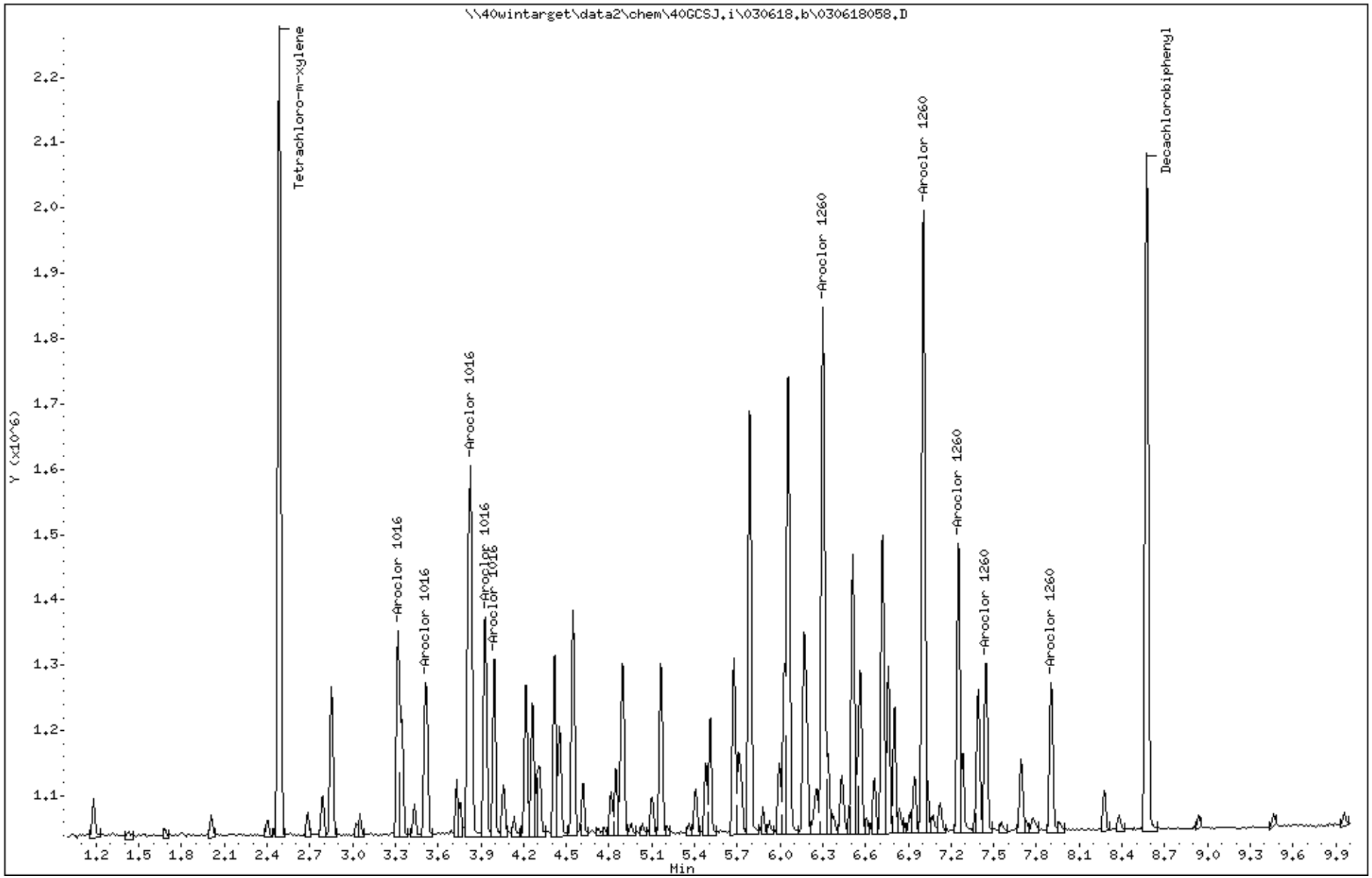
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

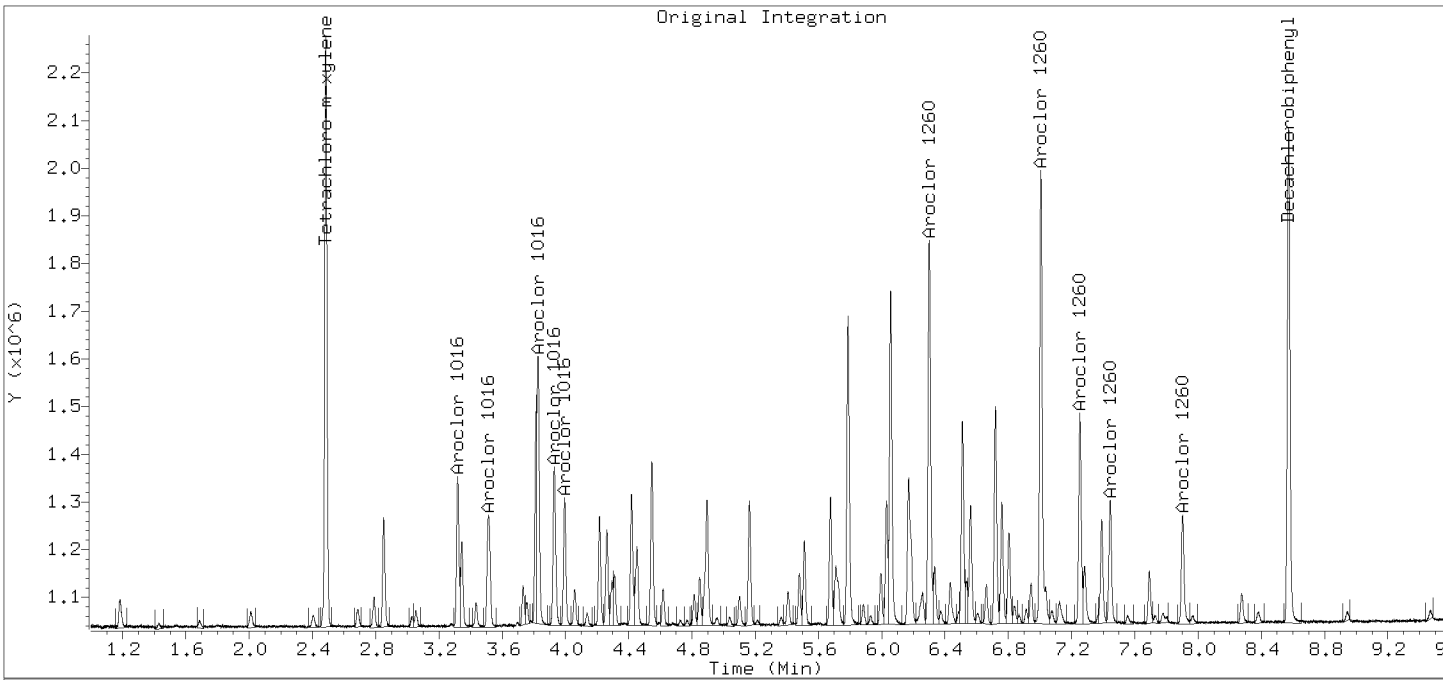
Operator: BLM

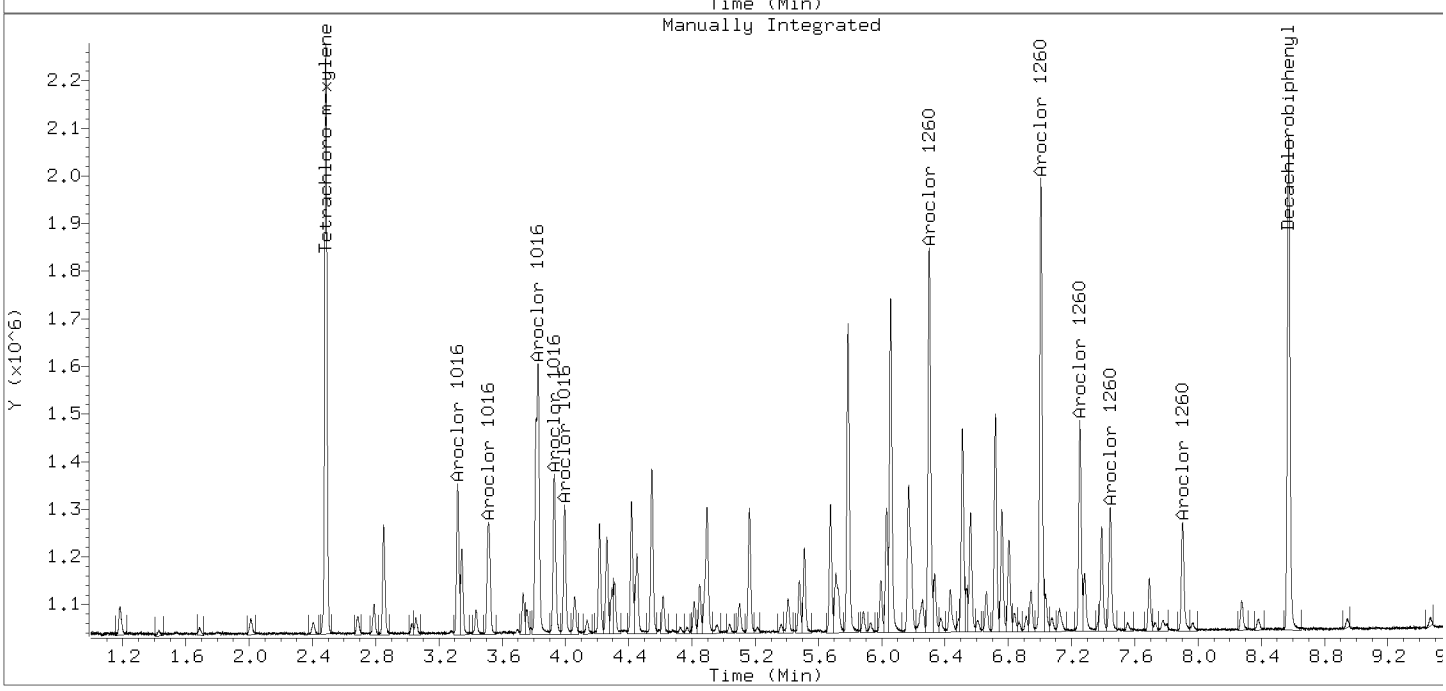
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

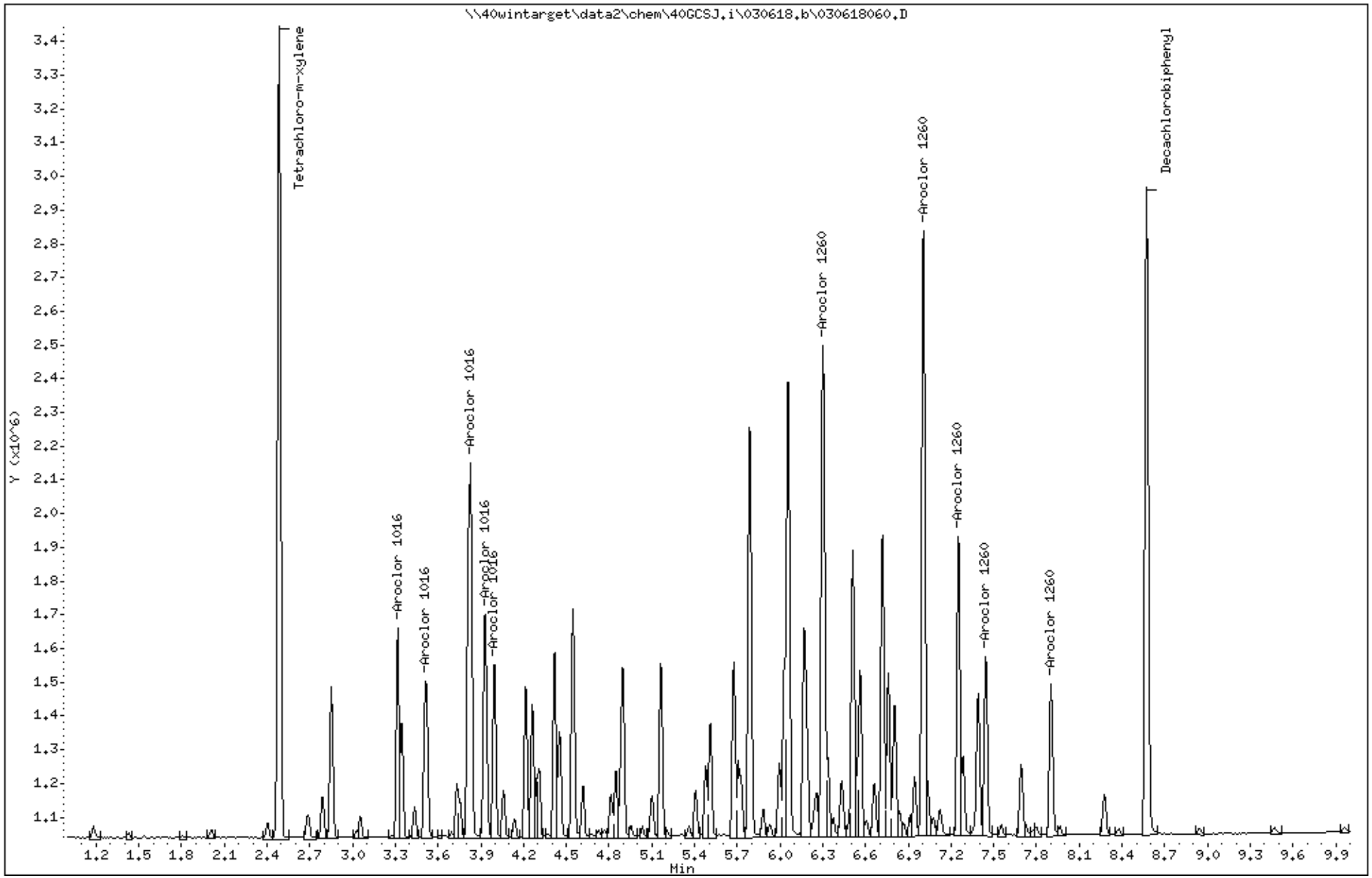
QC Flag Legend

Review Codes Legend

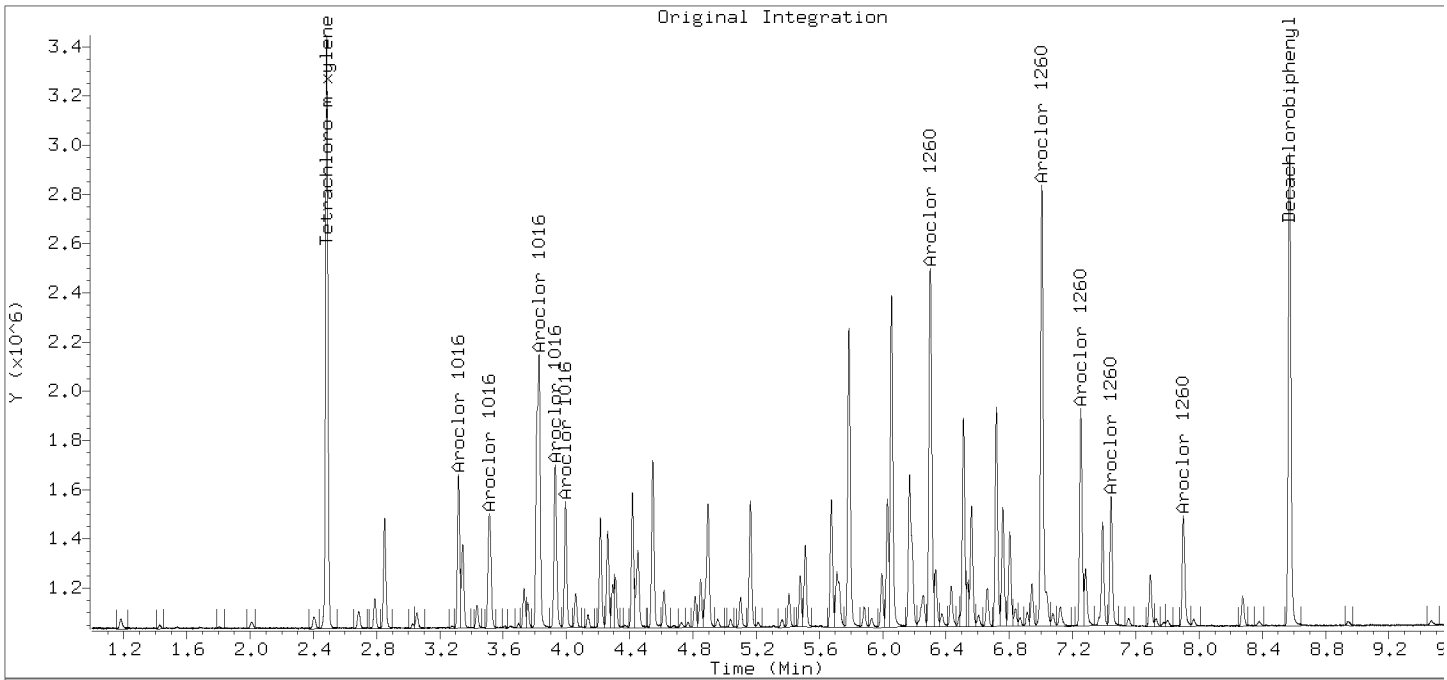
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

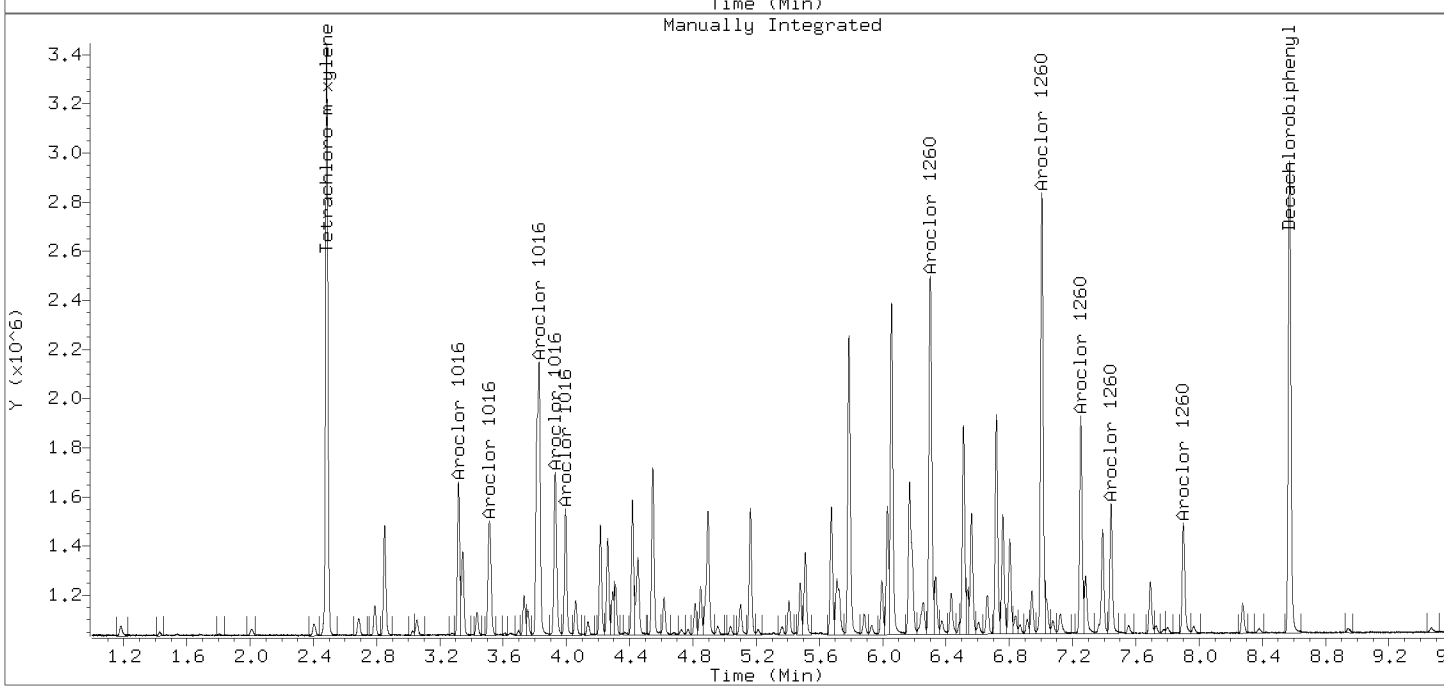
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Date : 06-MAR-2018 18:51
Client ID: 1660-CAL2A
Sample Info: 1660-CAL2A, 185558:1

Instrument: 40GCSJ.i
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

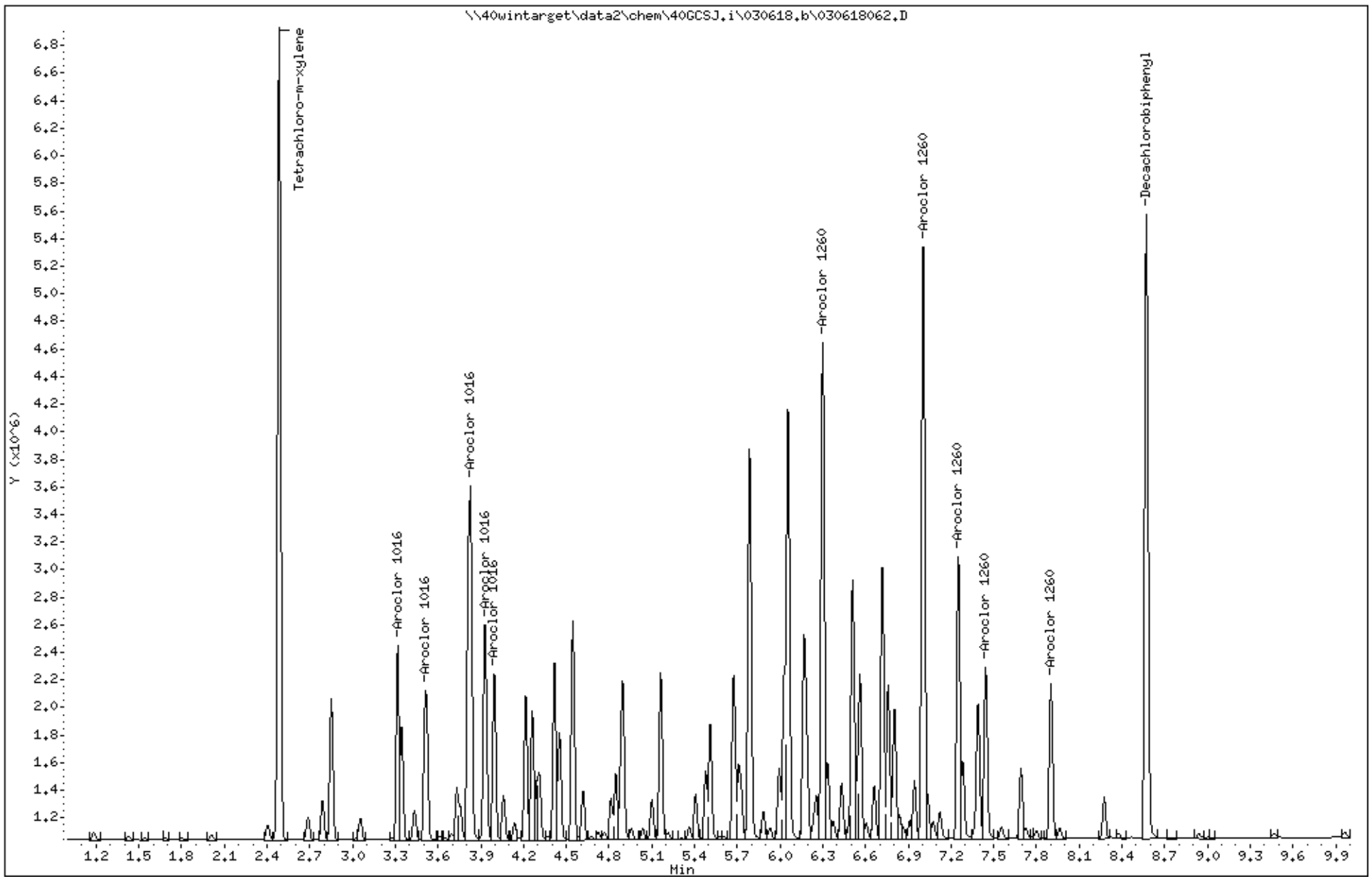
Instrument: 40GCSJ.i

Sample Info: 1660-CAL3A, 185559:1

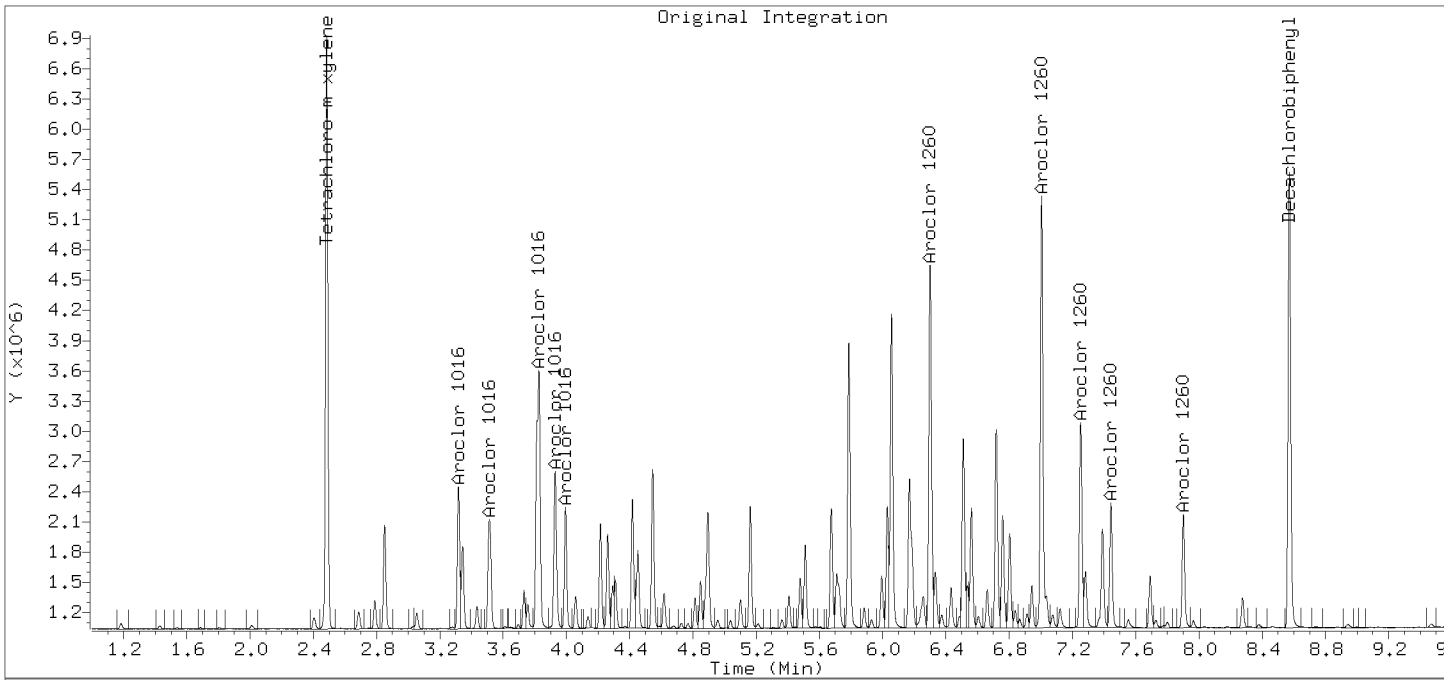
Operator: BLM

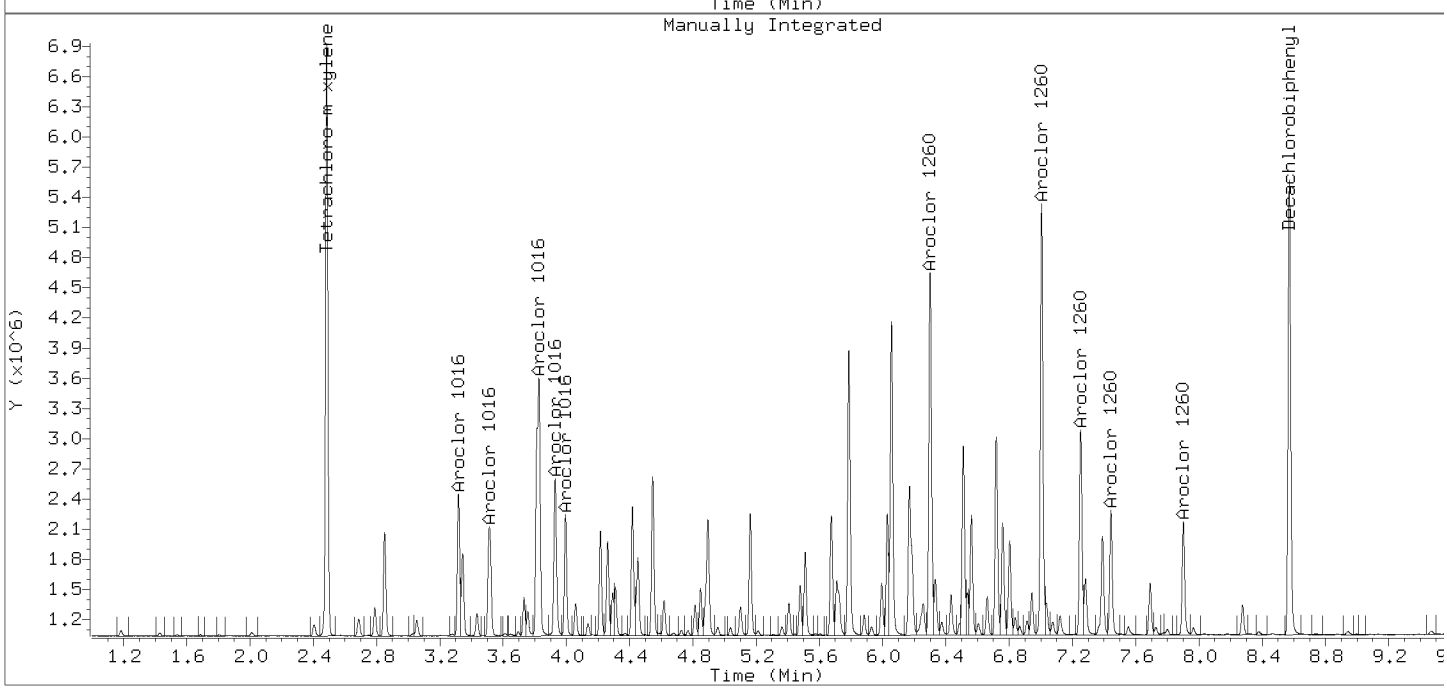
Column phase: ZB-1ms

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

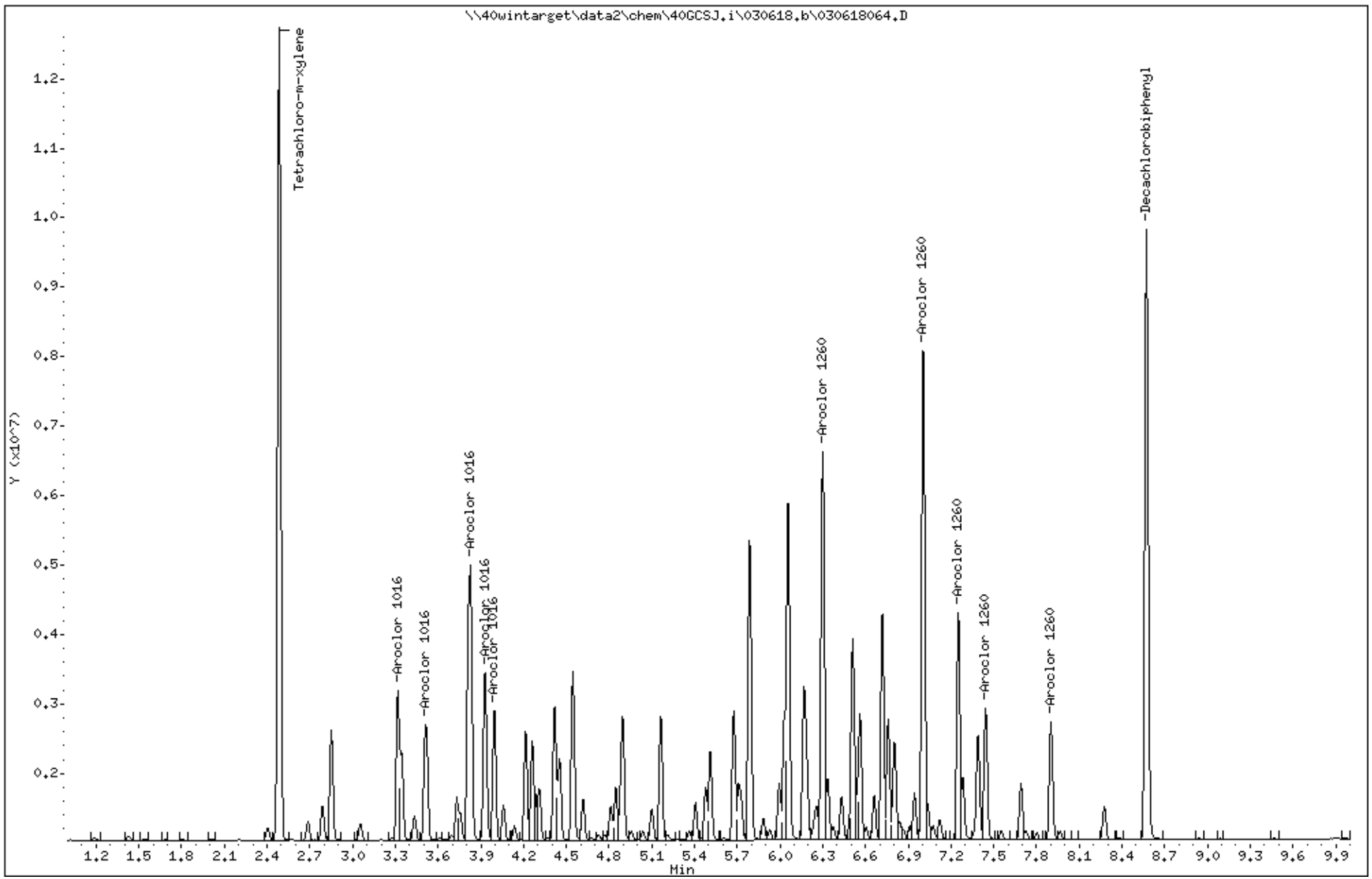
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

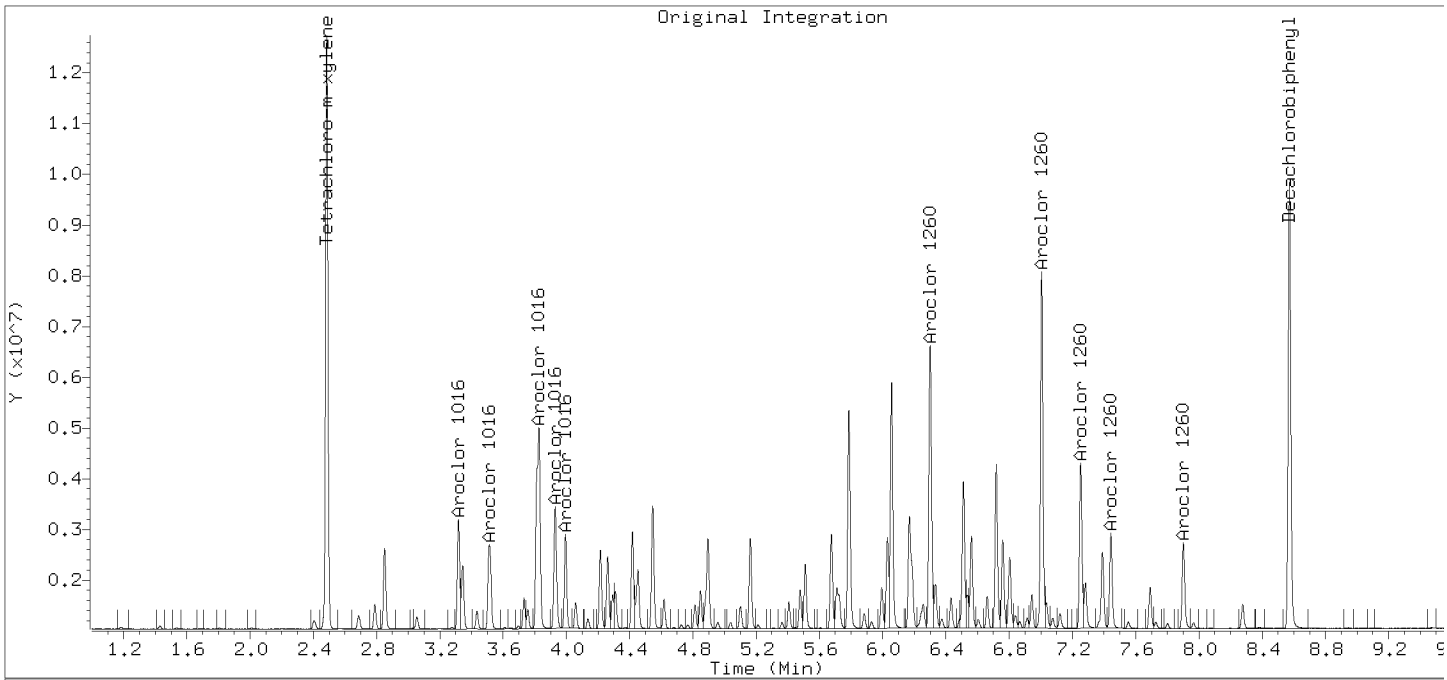
Operator: BLM

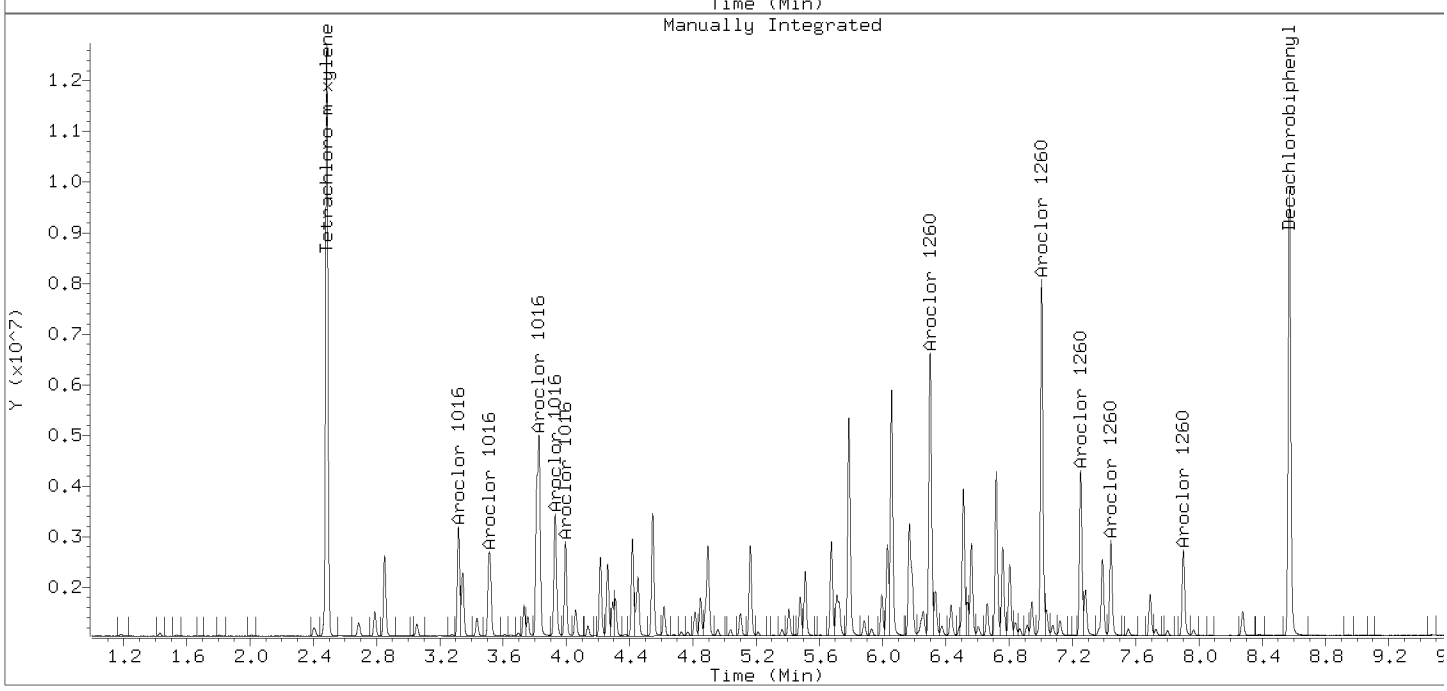
Column phase: ZB-1ms

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

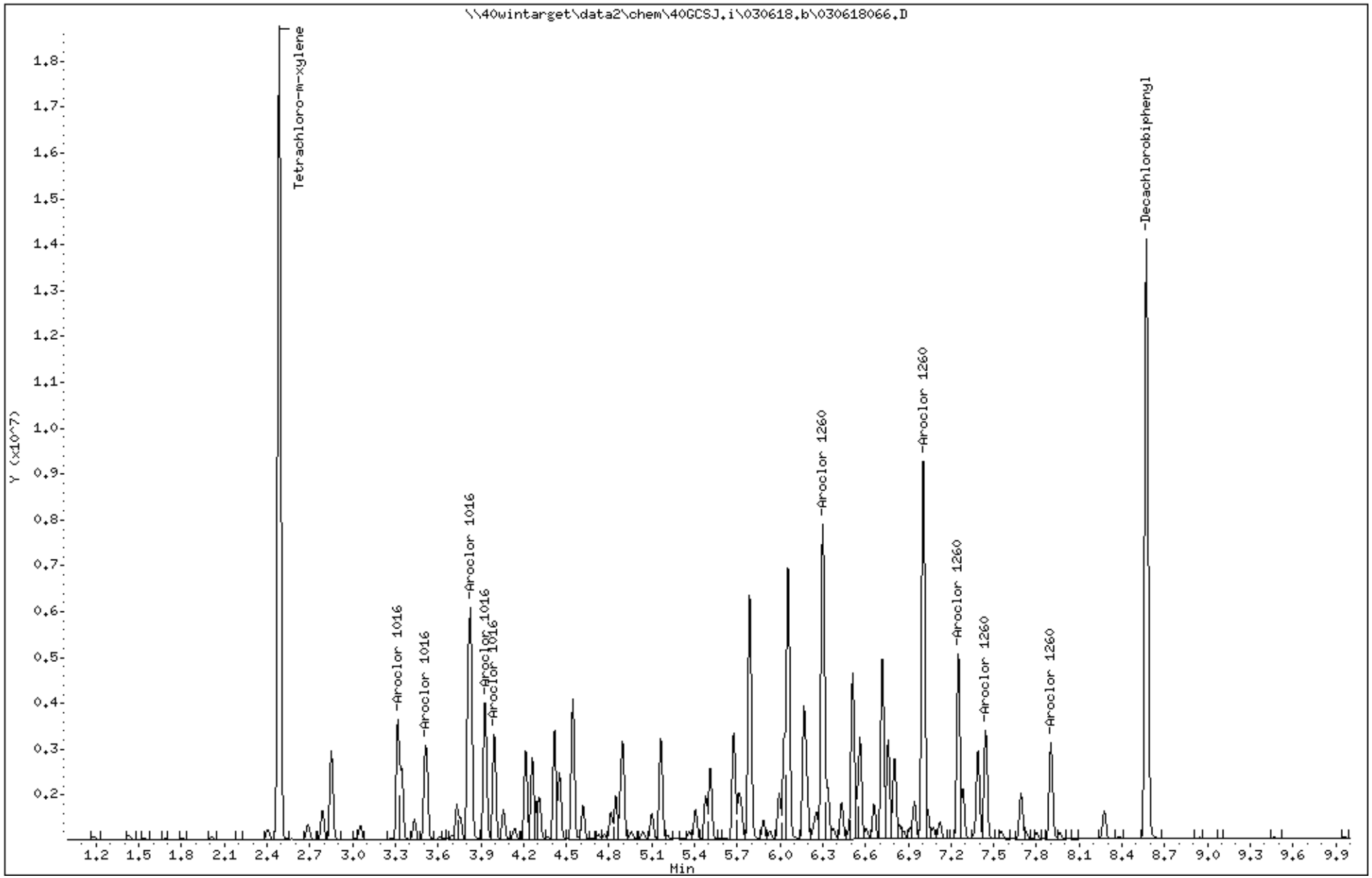
Instrument: 40GCSJ.i

Sample Info: 1660-CAL5A, 185561:1

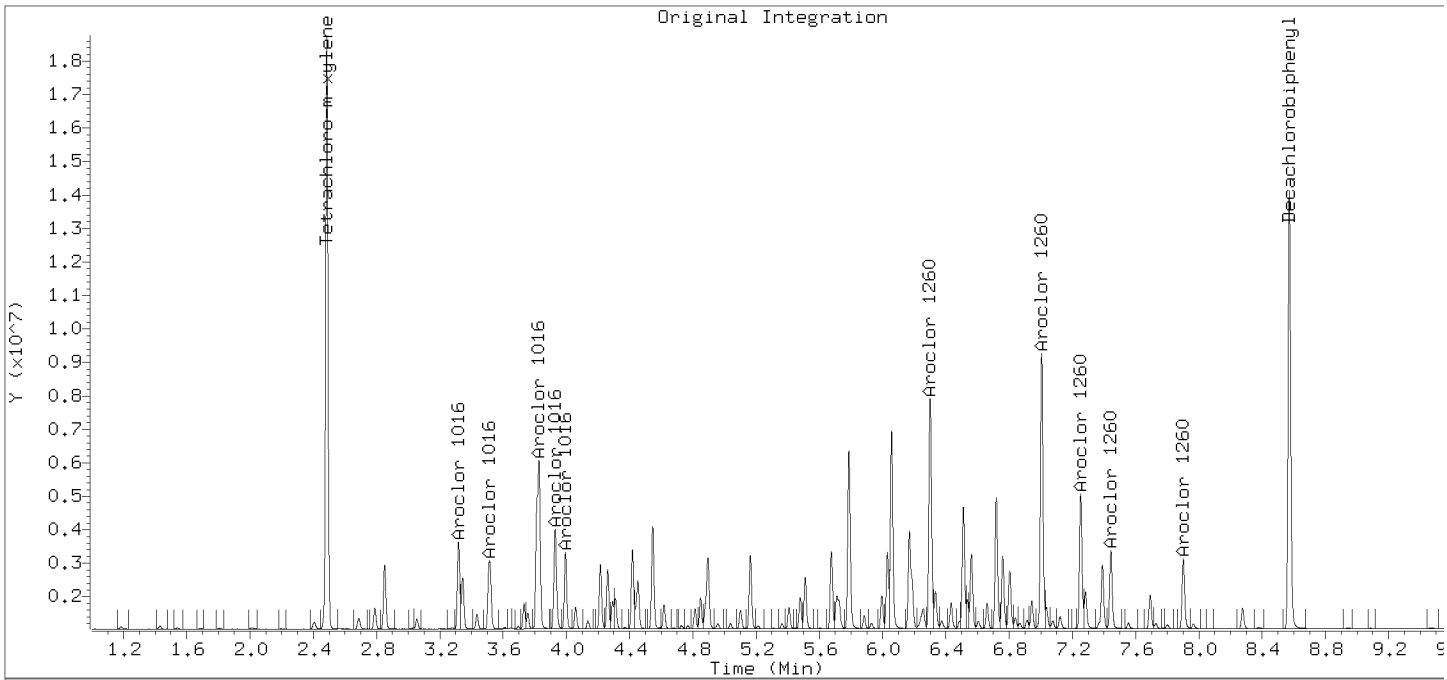
Operator: BLM

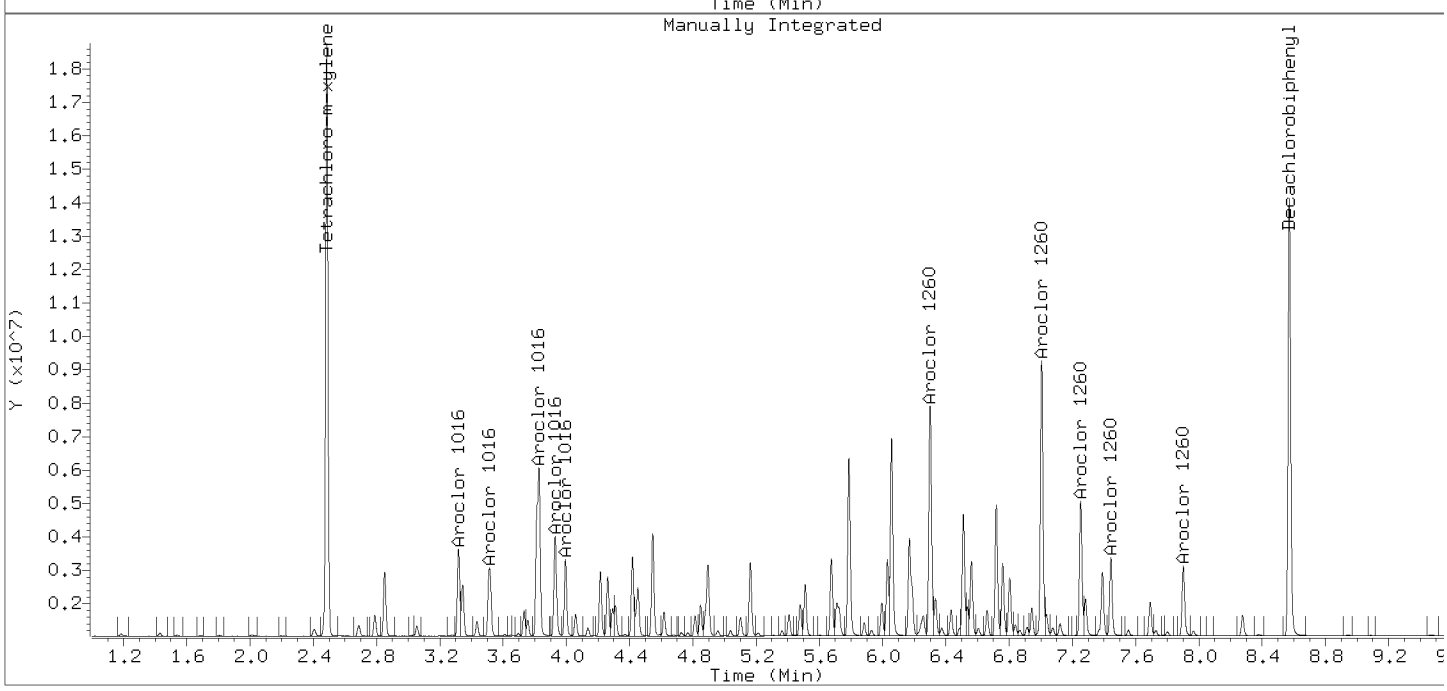
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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.: 40150340

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.: 40150340

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.: 40150340

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.: 40150340

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.: 40150340

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.

10842793CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/15/2018 Time: 13:50

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

Lab File ID: 031518.B\031518004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150340

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	3053220.00	-0.8962
Aroclor 1016	2	Averaged	3.514	3.478	3.546	3099002.40	3040238.00	-1.8962
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	8467238.00	-4.4522
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3639406.00	-3.7251
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2455722.00	-5.6707
Aroclor 1260	1	Averaged	6.299	6.266	6.334	8862352.50	8532060.00	-3.7269
Aroclor 1260	2	Averaged	7.005	6.972	7.04	10014373.3	9593752.00	-4.2002
Aroclor 1260	3	Averaged	7.251	7.217	7.285	4779803.15	4611624.00	-3.5185
Aroclor 1260	4	Averaged	7.443	7.409	7.477	2915110.60	2883568.00	-1.0820
Aroclor 1260	5	Averaged	7.9	7.867	7.935	2638735.95	2535188.00	-3.9241
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	108052340.	-1.3761
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	120850060.	-1.9831

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

SAMPLE NO.

10842792CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/15/2018 Time: 17:00

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

Lab File ID: 031518.B\031518016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150340

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	1028208.00	-1.2532
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	531956.000	-2.8999
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1379240.00	-0.2961
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1083422.00	-2.0210
Aroclor 1221	5	Averaged	2.85	2.817	2.885	3255397.65	3336768.00	2.4996
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	107639220.	-1.7532
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119979640.	-2.6890

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

SAMPLE NO.

10842791CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/15/2018 Time: 20:10

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

Lab File ID: 031518.B\031518028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150340

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	2770184.00	10.8063
Aroclor 1232	2	Averaged	3.513	3.479	3.547	1339782.00	1445202.00	7.8684
Aroclor 1232	3	Averaged	3.825	3.793	3.861	3749726.00	4196568.00	11.9167
Aroclor 1232	4	Averaged	3.928	3.895	3.963	1606492.00	1789766.00	11.4083
Aroclor 1232	5	Averaged	3.993	3.961	4.029	1091876.00	1167014.00	6.8816
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	112068320.	2.2895
Tetrachloro-m-xylene		Averaged	2.483	2.45	2.518	123295106.	122885940.	-0.3319

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

SAMPLE NO.

10842798CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/15/2018 Time: 21:45

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

Lab File ID: 031518.B\031518034.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150340

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	2646260.00	4.4632
Aroclor 1242	2	Averaged	3.511	3.479	3.547	2520033.45	2594706.00	2.9632
Aroclor 1242	3	Averaged	3.826	3.793	3.861	7116457.95	7514256.00	5.5898
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3205966.00	5.4062
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2124970.00	3.7711
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	111366480.	1.6489
Tetrachloro-m-xylene		Averaged	2.483	2.45	2.518	123295106.	120945620.	-1.9056

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

SAMPLE NO.

10842790CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/20/2018 Time: 13:19

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

Lab File ID: 032018.B\032018004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150340

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	2347046.00	-6.1191
Aroclor 1232	2	Averaged	3.512	3.479	3.547	1339782.00	1273822.00	-4.9232
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	3408346.00	-9.1041
Aroclor 1232	4	Averaged	3.929	3.895	3.963	1606492.00	1458530.00	-9.2103
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	953732.000	-12.6520
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	94451220.0	-13.7904
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	110264740.	-10.5684

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

SAMPLE NO.

10842795CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/20/2018 Time: 16:29

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

Lab File ID: 032018.B\032018016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150340

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	2552980.00	0.7809
Aroclor 1242	2	Averaged	3.512	3.479	3.547	2520033.45	2523760.00	0.1479
Aroclor 1242	3	Averaged	3.826	3.793	3.861	7116457.95	7122812.00	0.0893
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3055274.00	0.4517
Aroclor 1242	5	Averaged	3.994	3.961	4.029	2047746.90	2044686.00	-0.1495
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	103411200.	-5.6123
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	119382160.	-3.1736

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

SAMPLE NO.

10842794CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/20/2018 Time: 19:39

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

Lab File ID: 032018.B\032018028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40150340

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	2370352.00	1.1685
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4146654.00	-0.0880
Aroclor 1248	3	Averaged	4.811	4.778	4.846	2030080.20	2042030.00	0.5886
Aroclor 1248	4	Averaged	4.879	4.845	4.913	5037445.65	5085656.00	0.9570
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3617738.00	0.8135
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	106514480.	-2.7798
Tetrachloro-m-xylene		Averaged	2.483	2.45	2.518	123295106.	119702040.	-2.9142

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

04/30/2018 11:22

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

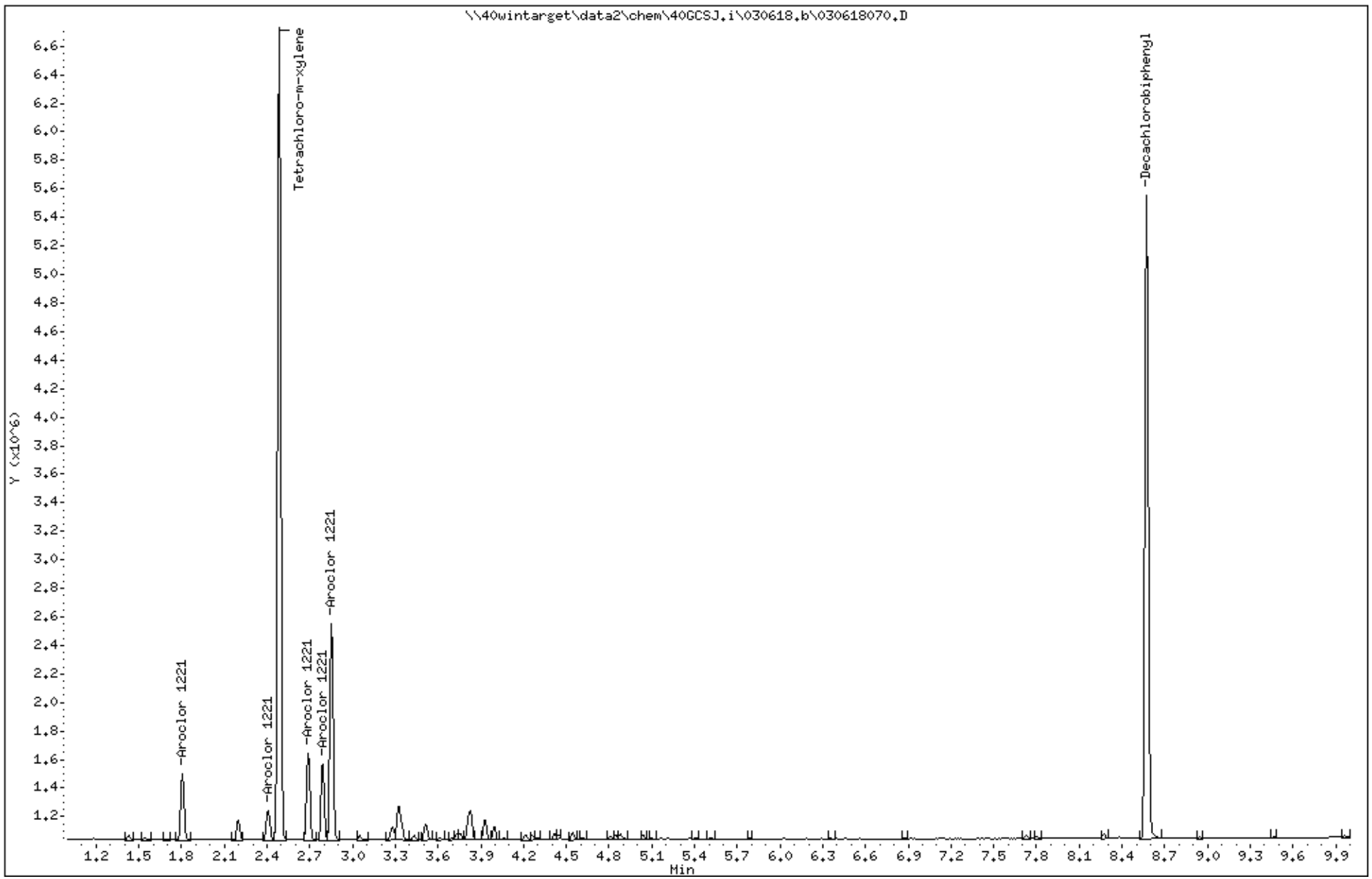
M - Compound response manually integrated.

Review Codes Legend

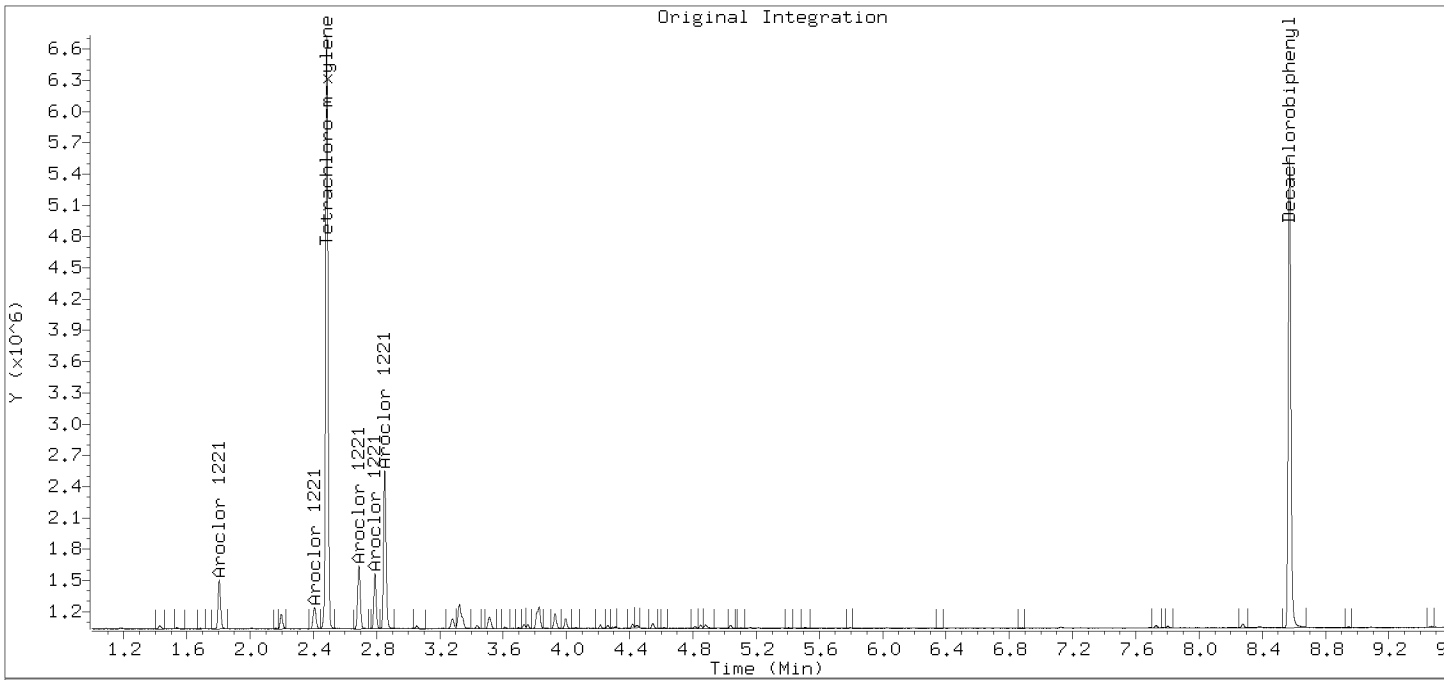
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

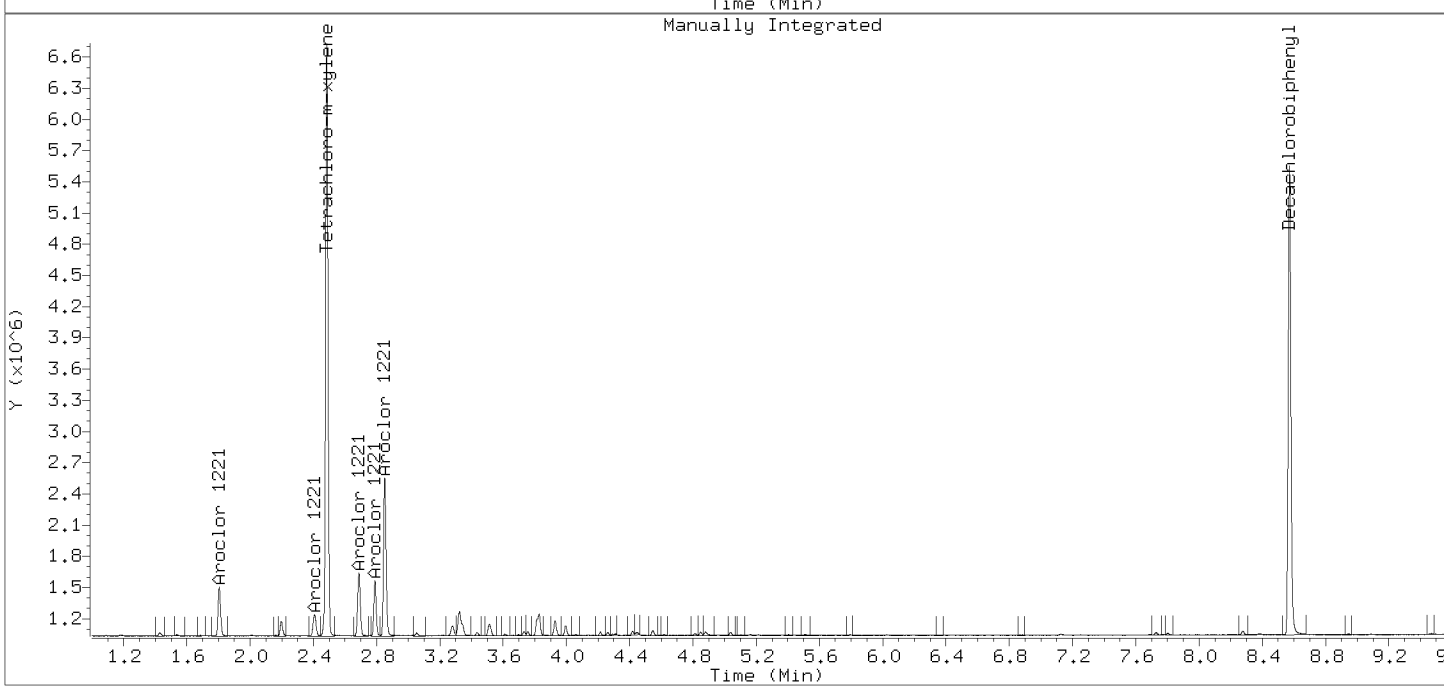
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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



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





Manually Integrated Compounds

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

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SW846-8082

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

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

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

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

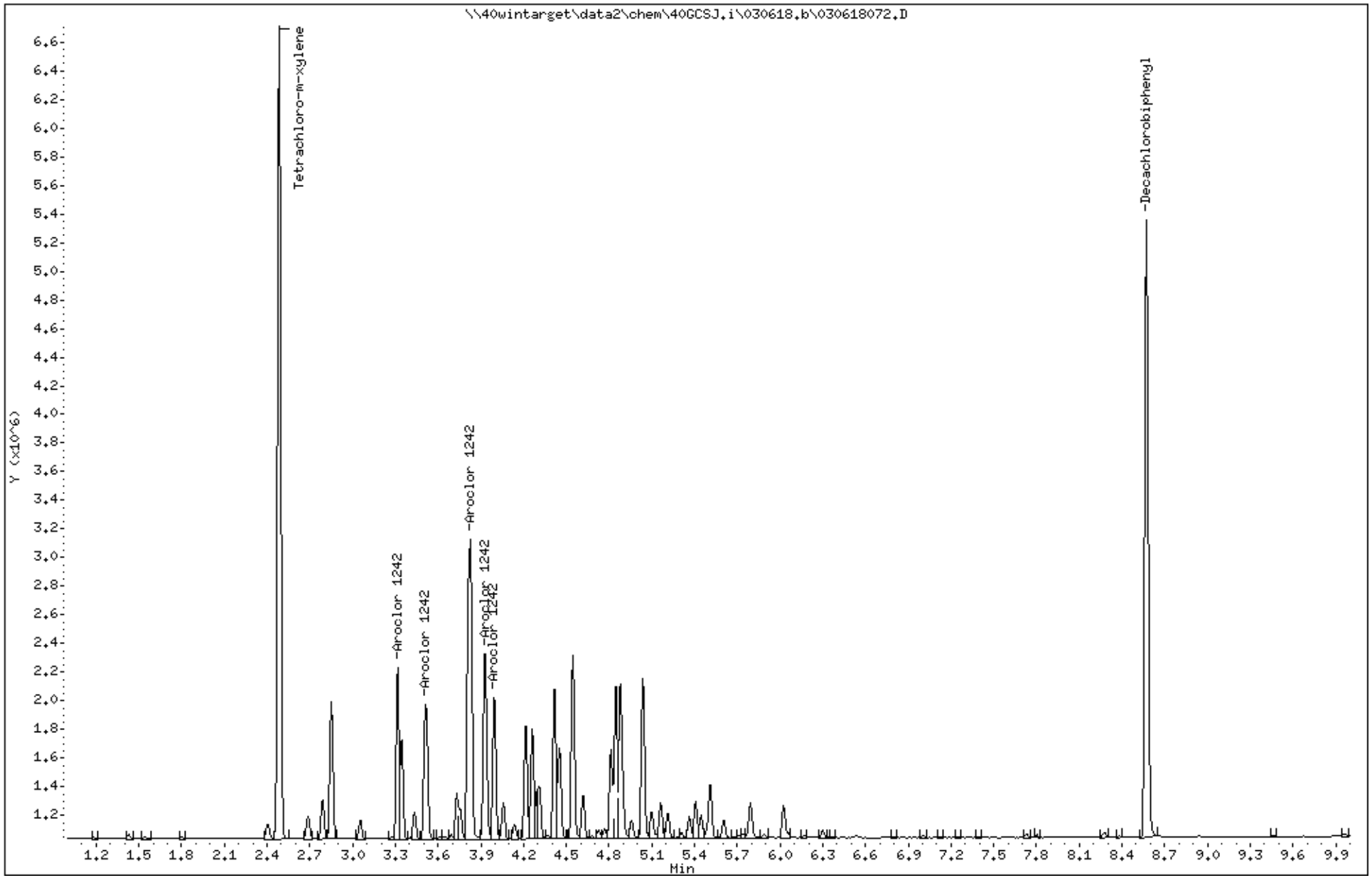
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

Instrument: 40GCSJ.i

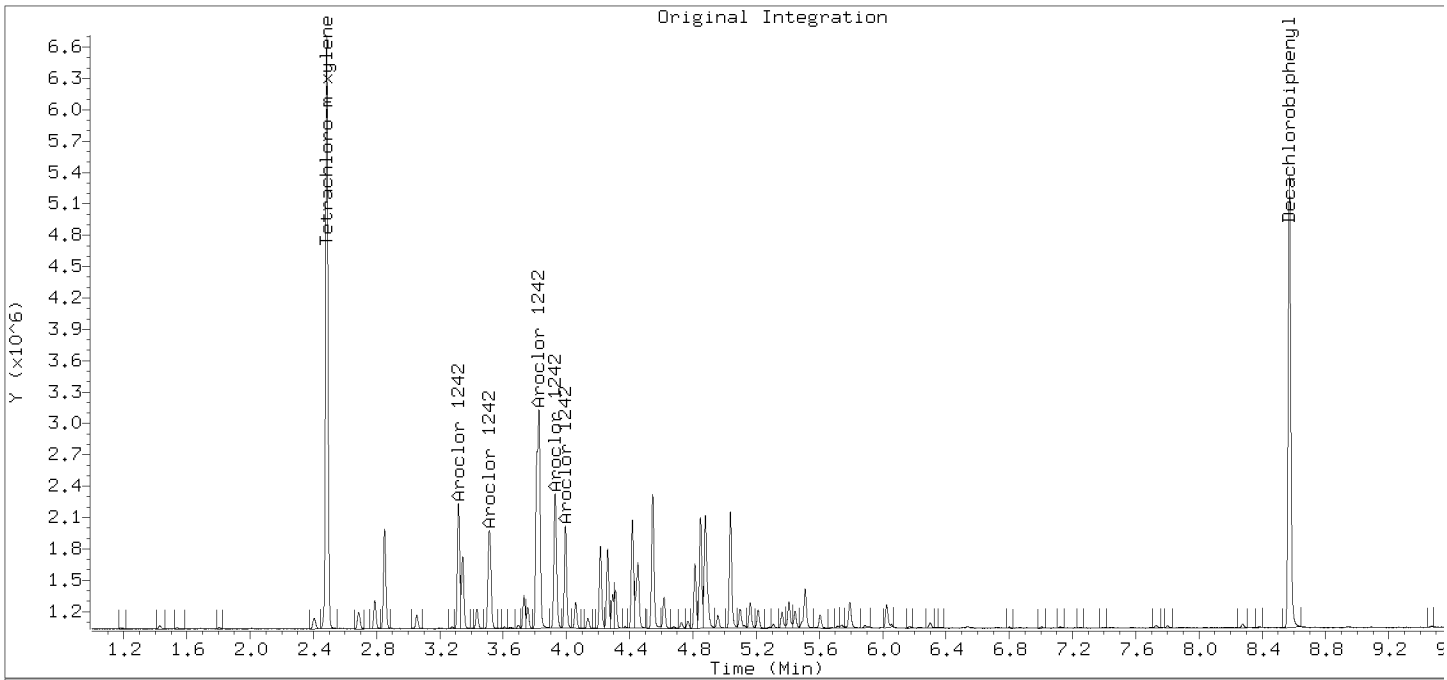
Operator: BLM

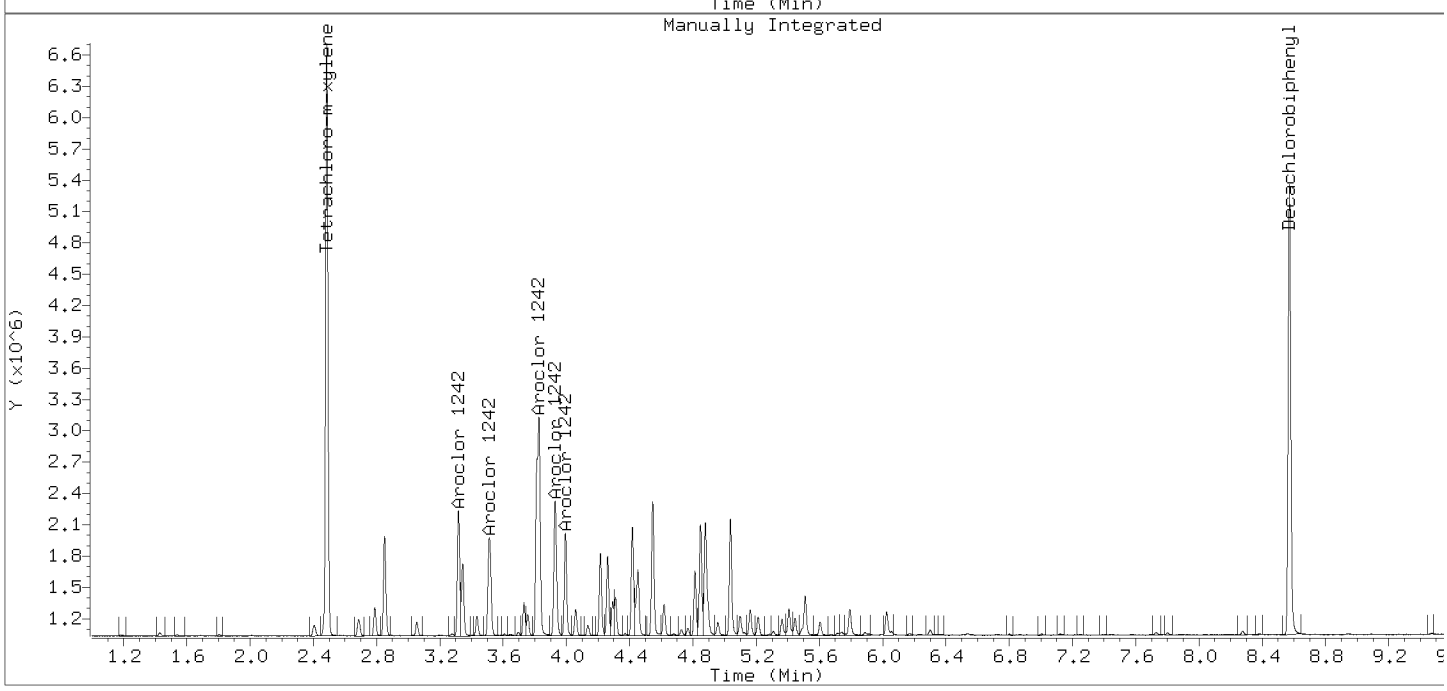
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D

Date : 06-MAR-2018 20:44

Client ID: 1248-ICV

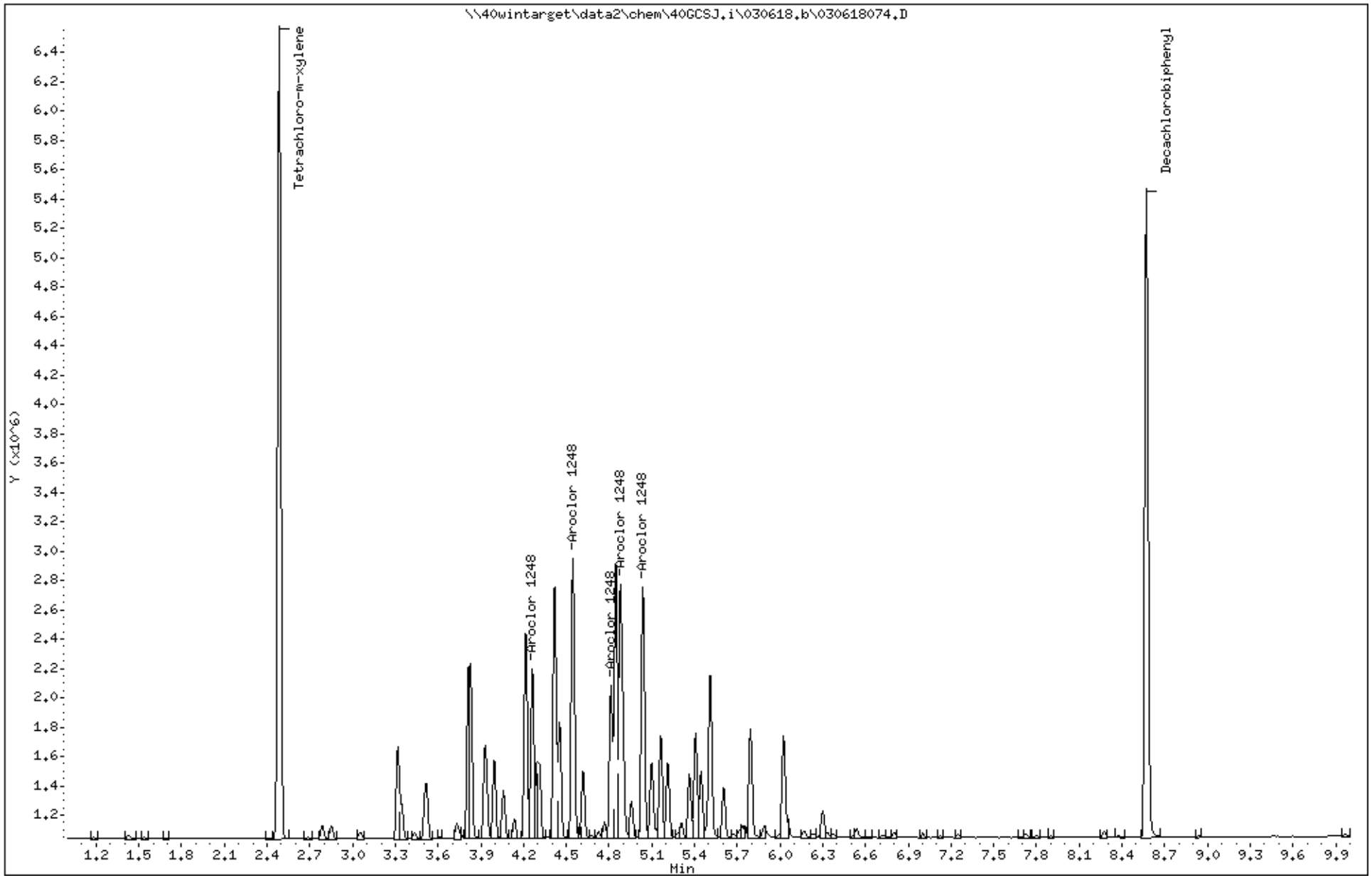
Instrument: 40GCSJ.i

Sample Info: 1248-ICV, 185563:1

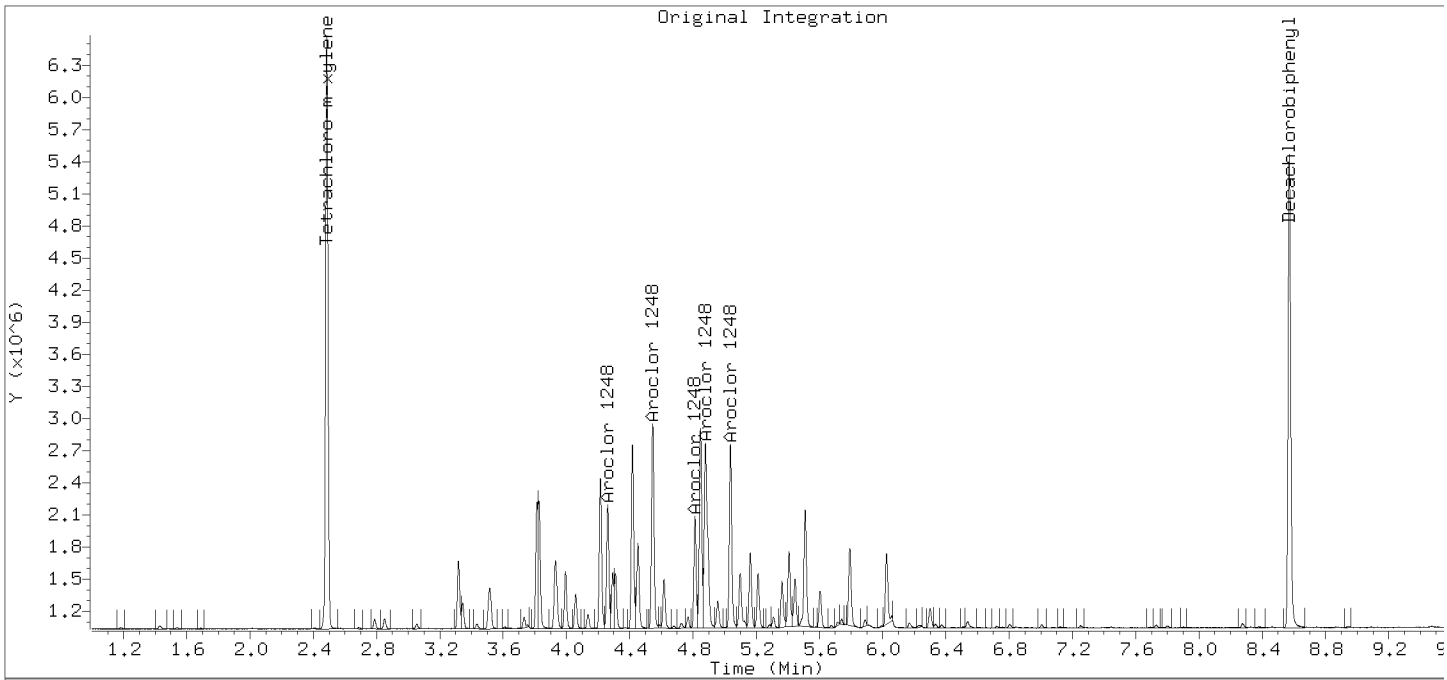
Operator: BLM

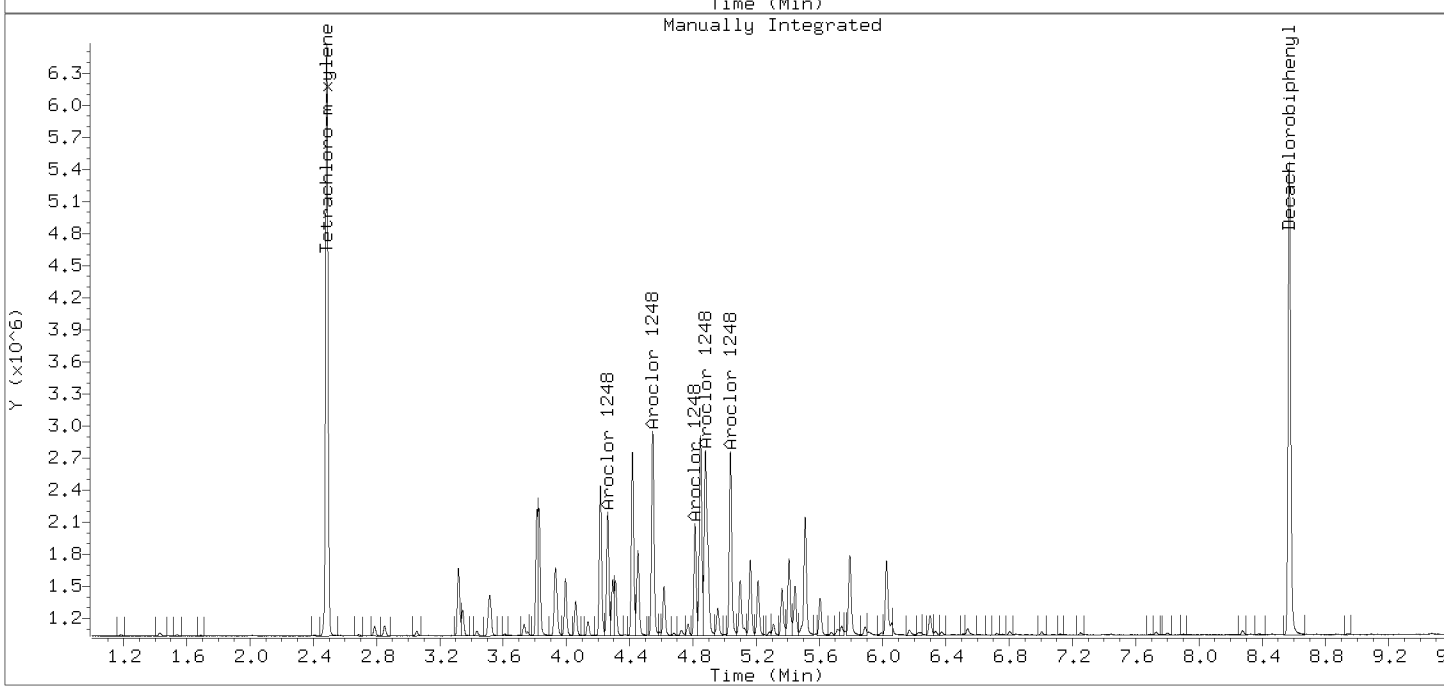
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 21:00

Client ID: 1254-ICV

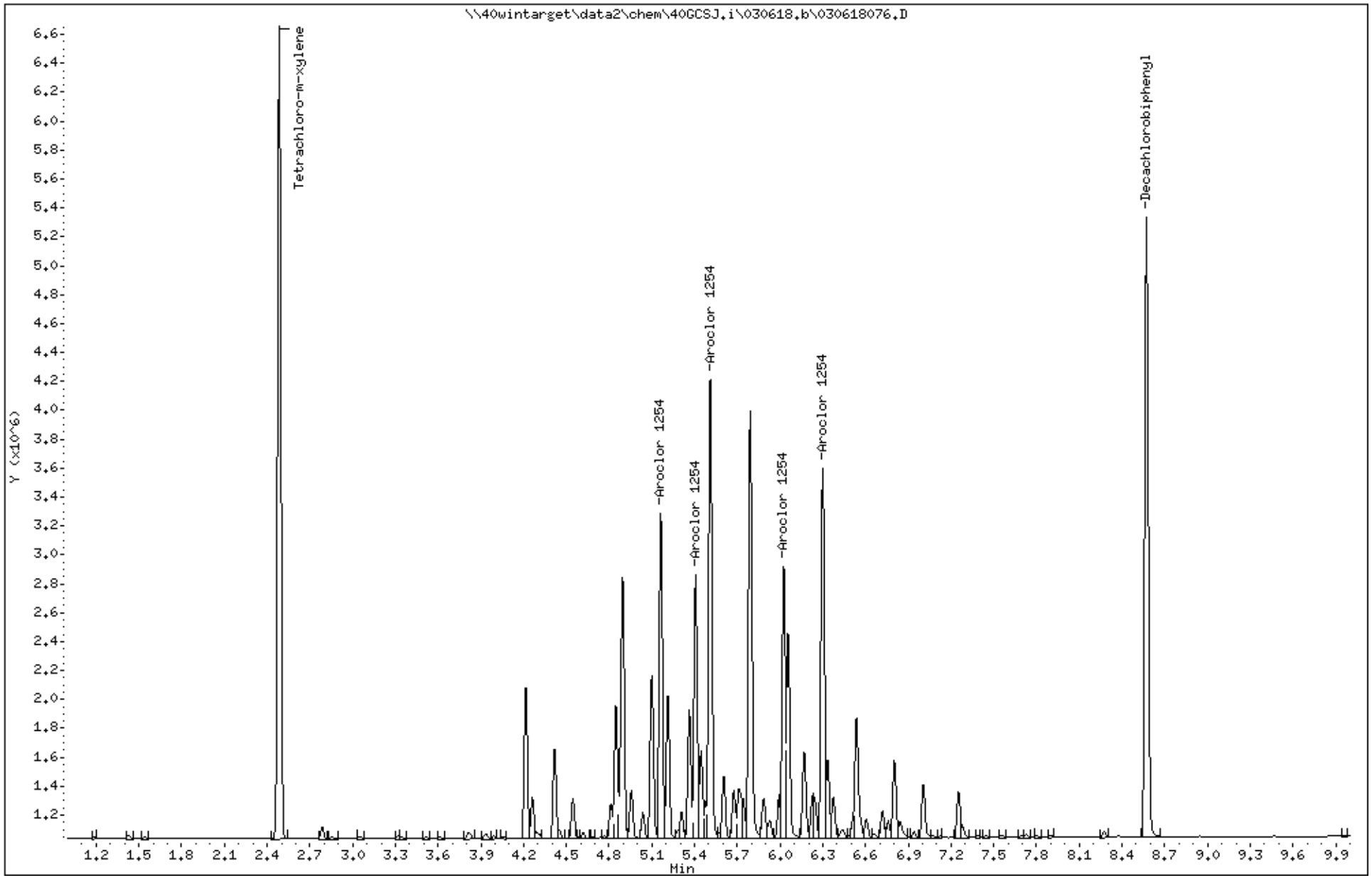
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

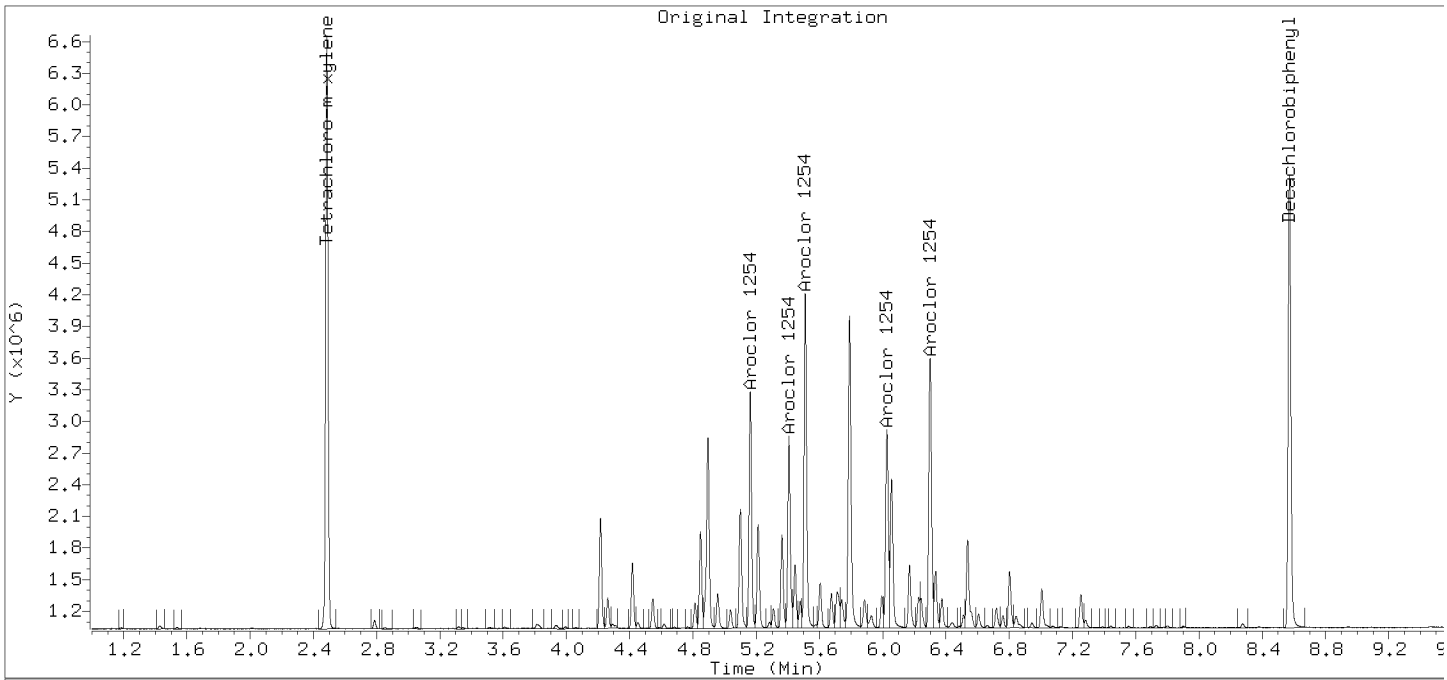
Operator: BLM

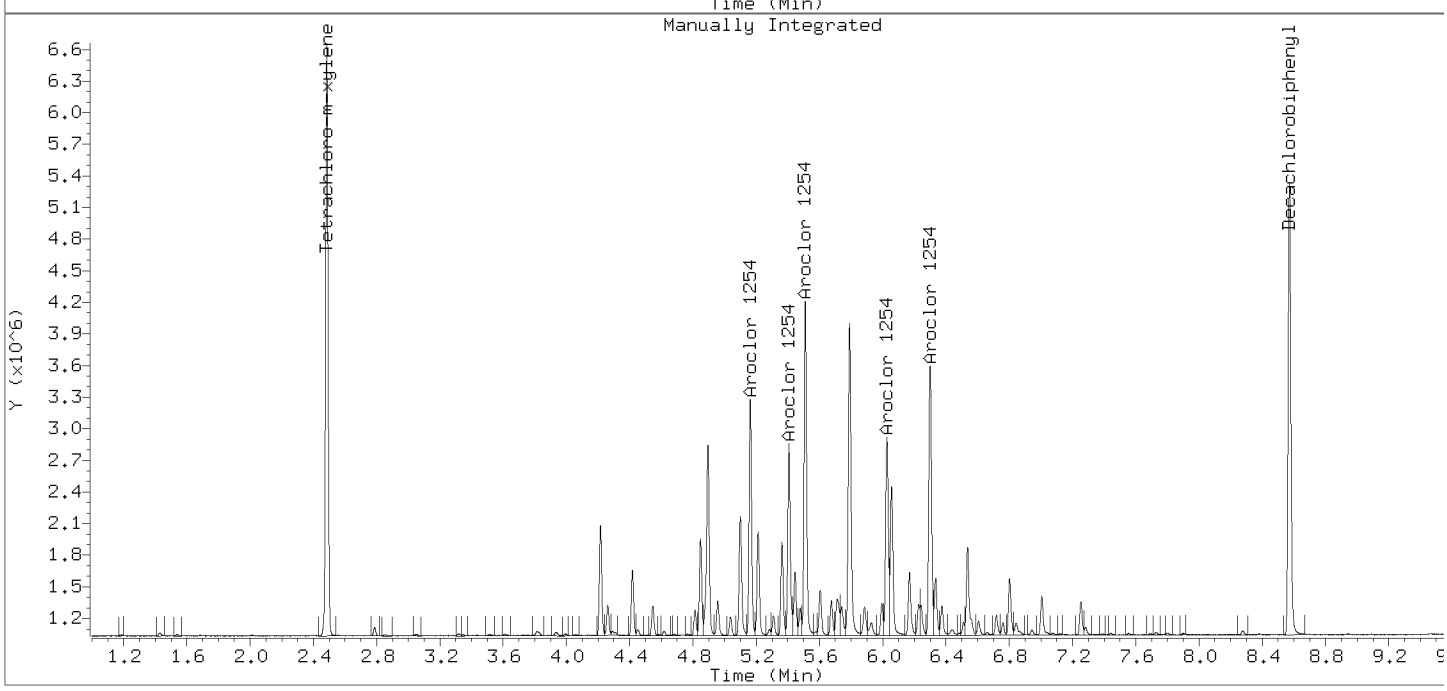
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

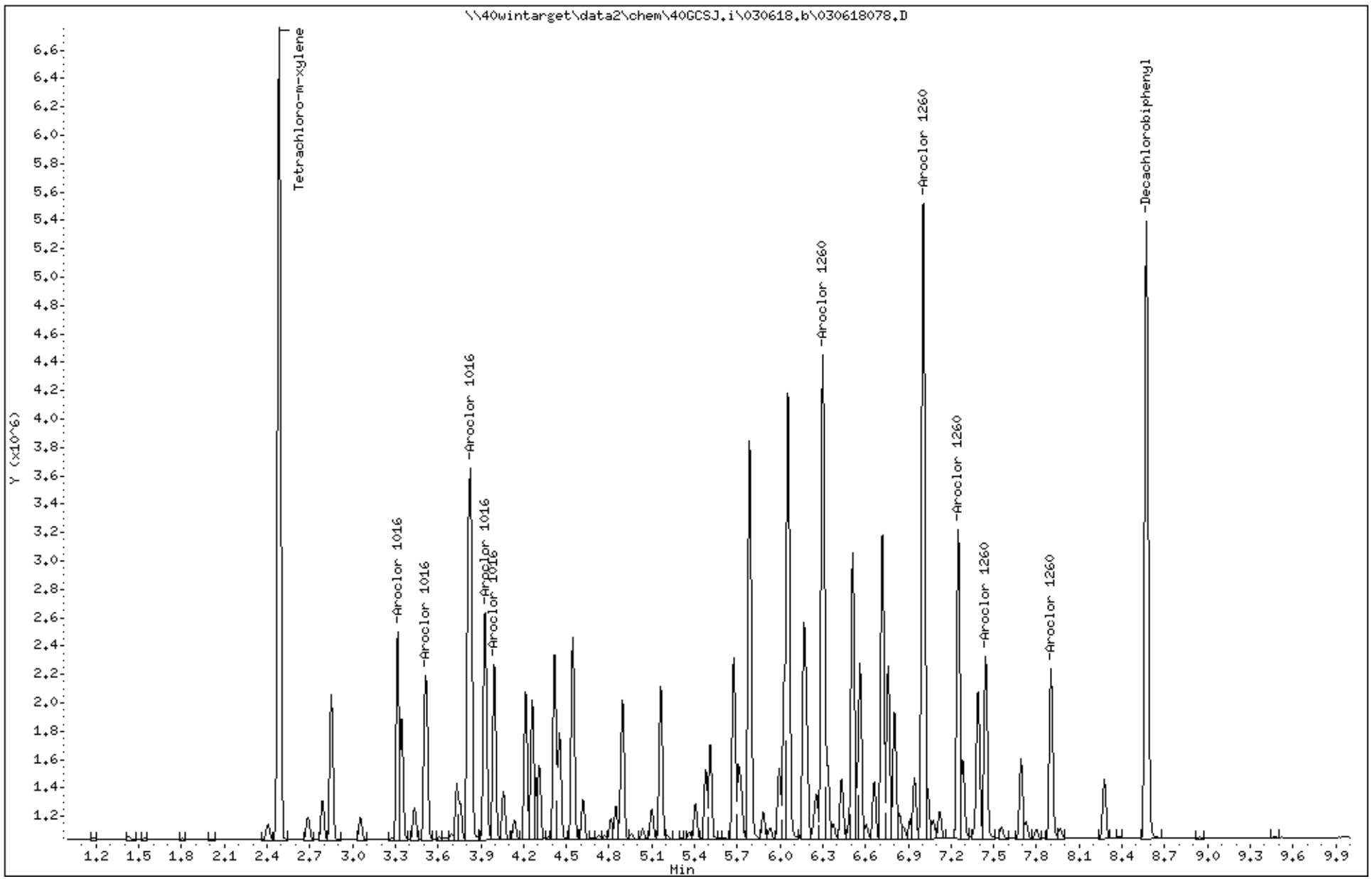
QC Flag Legend

Review Codes Legend

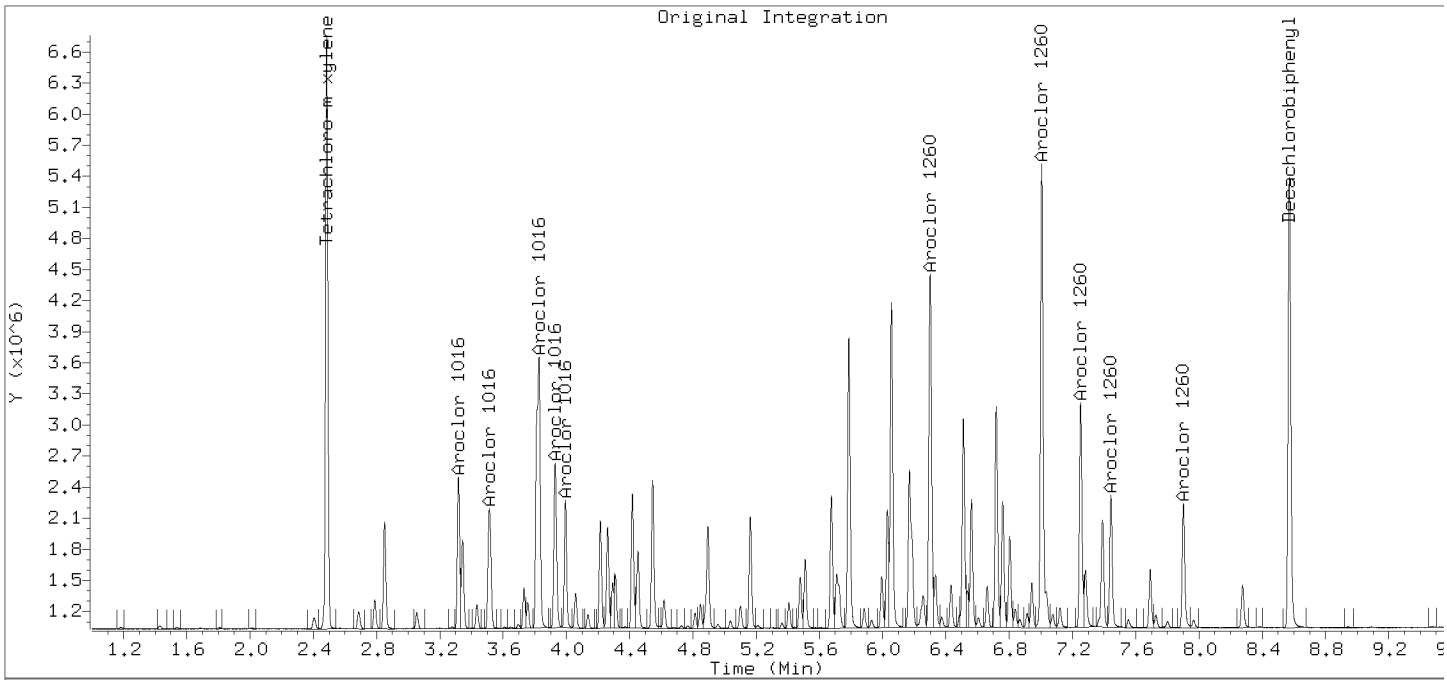
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

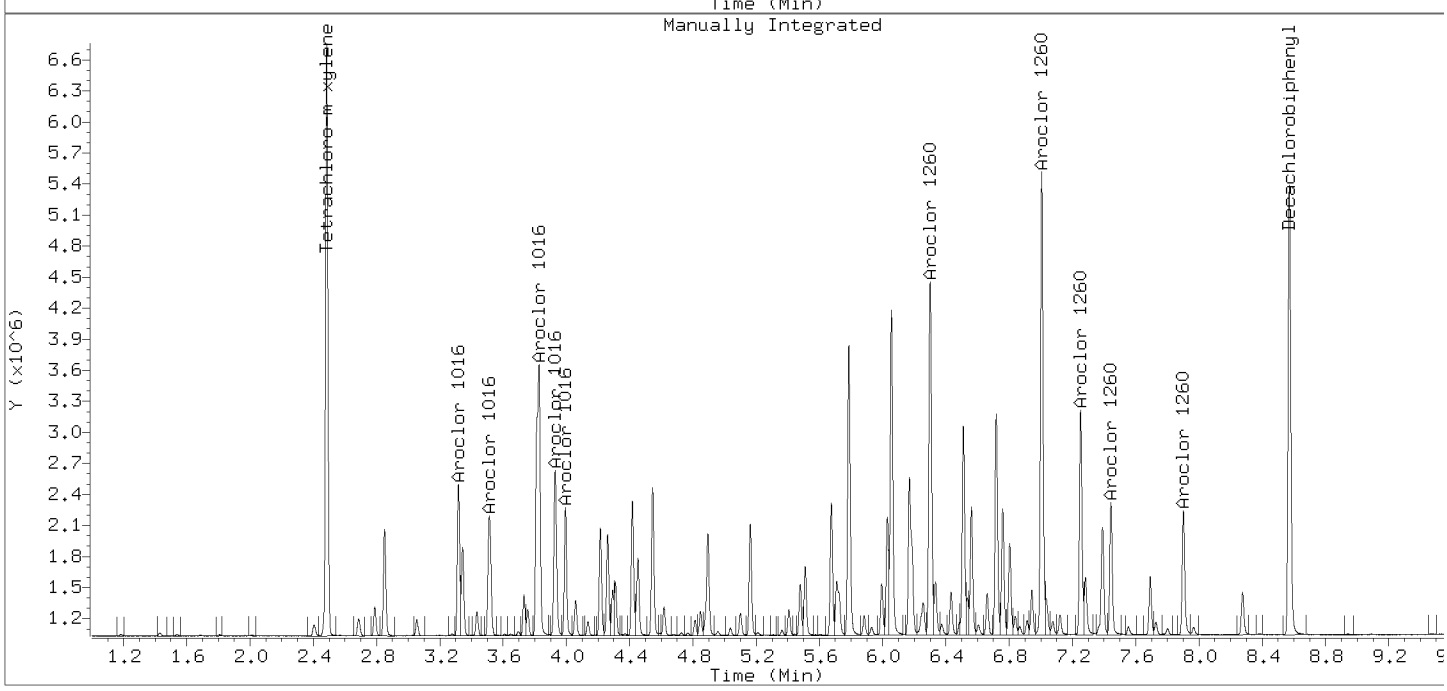
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618078.D
Date : 06-MAR-2018 21:16
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b/030618078.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 21:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1016	1566175	1575914	BA
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Aroclor 1260	4198281	4216761	CO
Tetrachloro-m-xylene	5932090	5932090	
Decachlorobiphenyl	5248206	5248206	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 15-MAR-2018 13:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	37456	31606	0.844	0.04		
1.427	44311	34256	0.773	0.05		
1.537	18314	14318	0.782	0.02		
1.688	23562	22225	0.943	0.02		
1.800	18179	14214	0.782	0.02		
2.010	31961	22154	0.693	0.03		
2.189	11885	6486	0.546	0.01		
2.404	137048	108335	0.790	0.16		
2.484	6042503	5740466	0.950	7.76	$ 2 Tetrachloro-m-xylene	
2.687	200576	165788	0.827	0.24		
2.789	297984	279427	0.938	0.35		
2.851	1084295	1022519	0.943	1.29		
3.029	16521	15138	0.916	0.01		
3.054	160915	155131	0.964	0.19		
3.273	27357	20019	0.732	0.03		
3.318	1526610	1408104	0.922	1.82	5 Aroclor 1016	BA
3.344	863650	819944	0.949	1.03		
3.435	245314	220047	0.897	0.29		
3.514	1520120	1093648	0.719	1.82	5 Aroclor 1016	BA
3.610	19483	19051	0.978	0.02		
3.648	26739	17360	0.649	0.03		
3.696	43172	42940	0.995	0.05		
3.732	384829	377797	0.982	0.46		
3.755	254291	242254	0.953	0.30		
3.826	4233620	2526211	0.597	5.07	5 Aroclor 1016	BA
3.929	1819704	1513292	0.832	2.18	5 Aroclor 1016	BA
3.994	1227861	1187983	0.968	1.47	5 Aroclor 1016	BA
4.058	358845	328085	0.914	0.42		
4.136	142043	128507	0.905	0.17		
4.215	1094618	1051837	0.961	1.31		
4.261	984347	933071	0.948	1.17		
4.293	412413	420578	1.020	0.49		
4.310	498778	475481	0.953	0.59		
4.372	34098	25157	0.738	0.04		
4.417	1355057	1284472	0.948	1.62		
4.452	977883	771619	0.789	1.17		
4.546	1709586	1572195	0.920	2.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.588	16197	23199	1.432	0.01	
4.617	391944	360216	0.919	0.46	
4.680	23219	19106	0.823	0.02	
4.727	61638	55312	0.897	0.07	
4.768	54044	51852	0.959	0.06	
4.812	304606	296867	0.975	0.36	
4.849	481293	465228	0.967	0.57	
4.895	1569862	1169181	0.745	1.88	
4.957	98675	82408	0.835	0.11	
5.037	85281	77319	0.907	0.10	
5.100	334190	289487	0.866	0.40	
5.162	1286200	1194778	0.929	1.54	
5.211	60201	47654	0.792	0.07	
5.309	14239	13371	0.939	0.01	
5.364	87742	80247	0.915	0.10	
5.407	347039	327887	0.945	0.41	
5.444	14197	15157	1.068	0.01	
5.479	520734	499587	0.959	0.62	
5.510	879300	809464	0.921	1.05	
5.606	16809	15697	0.934	0.02	
5.675	1338471	1220572	0.912	1.60	
5.710	896259	542065	0.605	1.07	
5.786	3235732	2870978	0.887	3.87	
5.884	224521	205076	0.913	0.26	
5.929	104886	81766	0.780	0.12	
5.993	544785	515517	0.946	0.65	
6.030	1262078	1234091	0.978	1.51	
6.056	3523913	3058585	0.868	4.22	
6.170	2315482	1449750	0.626	2.77	
6.257	524620	310152	0.591	0.62	
6.300	4266030	3539649	0.830	5.11	8 Aroclor 1260
6.334	599290	552727	0.922	0.71	
6.375	149978	123161	0.821	0.17	
6.433	460902	396994	0.861	0.55	
6.487	94512	122906	1.300	0.11	
6.510	2158349	1951186	0.904	2.58	
6.536	377497	418721	1.109	0.45	
6.561	1333764	1190099	0.892	1.59	
6.605	134153	112042	0.835	0.16	
6.660	420113	392445	0.934	0.50	
6.718	2290732	2075913	0.906	2.74	
6.759	1290643	1143337	0.886	1.54	
6.803	1032645	933344	0.904	1.23	
6.838	198008	171154	0.864	0.23	
6.868	98865	83990	0.850	0.11	
6.913	147210	140746	0.956	0.17	
6.942	448630	411088	0.916	0.53	
7.005	4796876	4341257	0.905	5.74	8 Aroclor 1260
7.035	336567	307726	0.914	0.40	
7.076	146097	122478	0.838	0.17	
7.123	233875	193179	0.826	0.28	
7.252	2305812	2090828	0.907	2.76	8 Aroclor 1260
7.282	646175	536213	0.830	0.77	
7.390	1206260	977571	0.810	1.44	
7.443	1441784	1282170	0.889	1.72	8 Aroclor 1260
7.554	105475	82966	0.787	0.12	
7.691	575696	530380	0.921	0.68	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.728	91710	74999	0.818	0.10	
7.772	21444	18137	0.846	0.02	
7.802	74270	58158	0.783	0.08	
7.901	1267594	1093344	0.863	1.51	8 Aroclor 1260
7.966	87461	74915	0.857	0.10	
8.277	336294	293125	0.872	0.40	
8.379	26964	19947	0.740	0.03	
8.572	5402618	4420943	0.818	6.47	$ 12 Decachlorobiphenyl
8.940	25496	18140	0.711	0.03	
9.351	9317	12810	1.375	0.01	
9.392	27406	15958	0.582	0.03	
9.418	29748	24670	0.829	0.03	
9.428	31294	30492	0.974	0.03	
9.462	77908	30569	0.392	0.09	
9.531	9815	5624	0.573	0.01	
9.840	102808	34447	0.335	0.12	
9.859	39673	23733	0.598	0.04	
	83461843	71968565		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 15-MAR-2018 13:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6042503	0.05000	0.049			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1526610	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.514	3.512	0.002	1520119	0.50000	0.49	0.00- 20.00	99.57	BA
3.826	3.826	0.000	4233619	0.50000	0.48	0.00- 20.00	277.32	BA
3.928	3.929	-0.001	1819703	0.50000	0.48	0.00- 20.00	119.20	BA
3.994	3.994	0.000	1227861	0.50000	0.47	0.00- 20.00	80.43	BA
Average of Peak Amounts =					0.48400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4266030	0.50000	0.48	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	4796876	0.50000	0.48	0.00- 20.00	112.44	BA
7.251	7.251	0.000	2305812	0.50000	0.48	0.00- 20.00	54.05	BA
7.443	7.443	0.000	1441784	0.50000	0.49	0.00- 20.00	33.80	BA
7.900	7.901	-0.001	1267594	0.50000	0.48	0.00- 20.00	29.71	BA
Average of Peak Amounts =					0.48200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5402617	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\031518.b\031518004.D

Date : 15-MAR-2018 13:50

Client ID: 1660-CCV

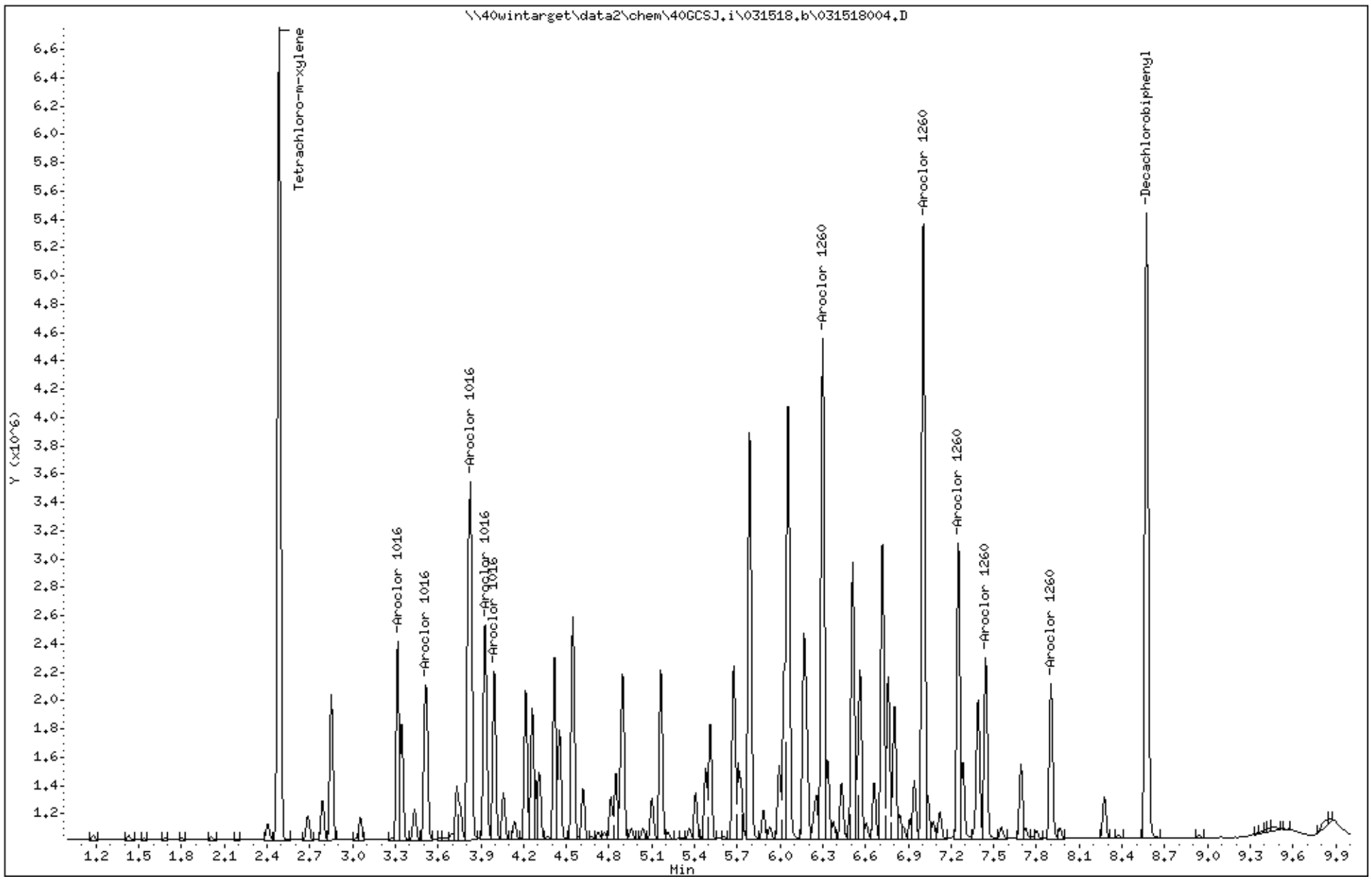
Instrument: 40GCSJ.i

Sample Info: 1660-CCV, 185559:1

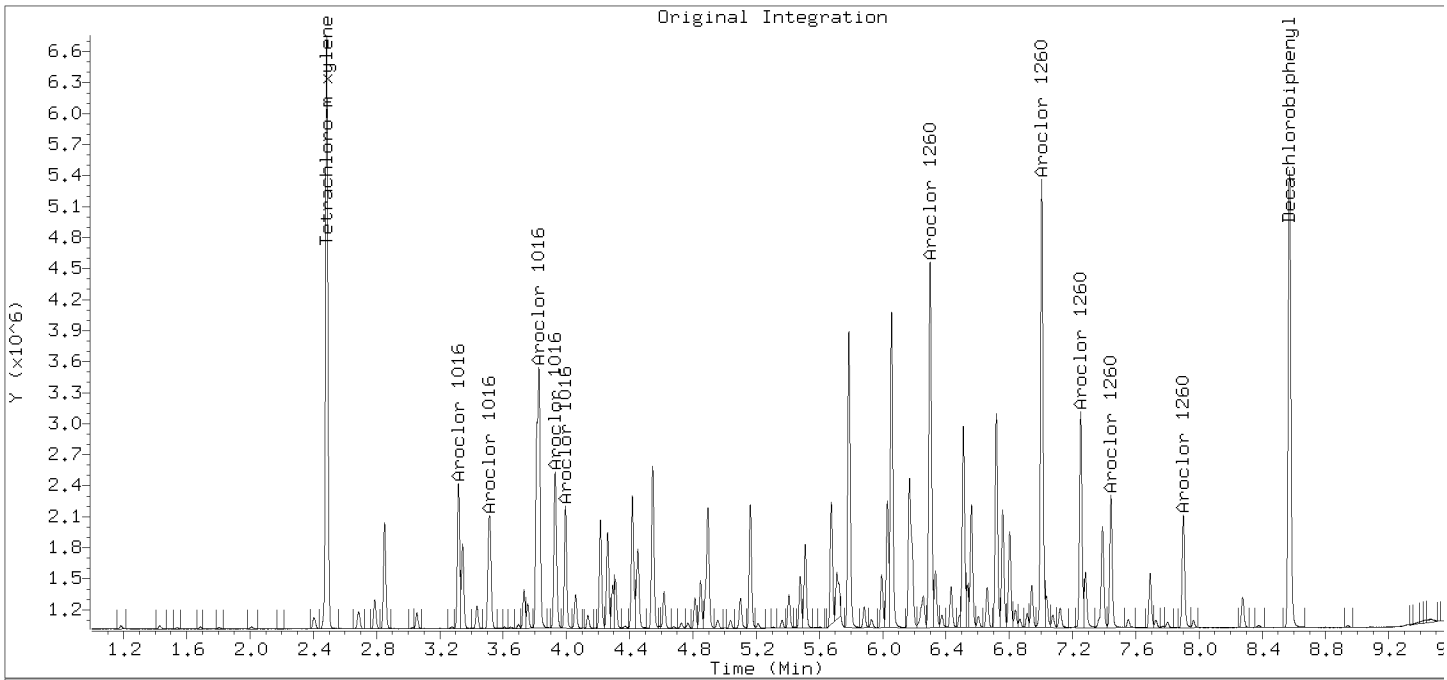
Operator: BLM

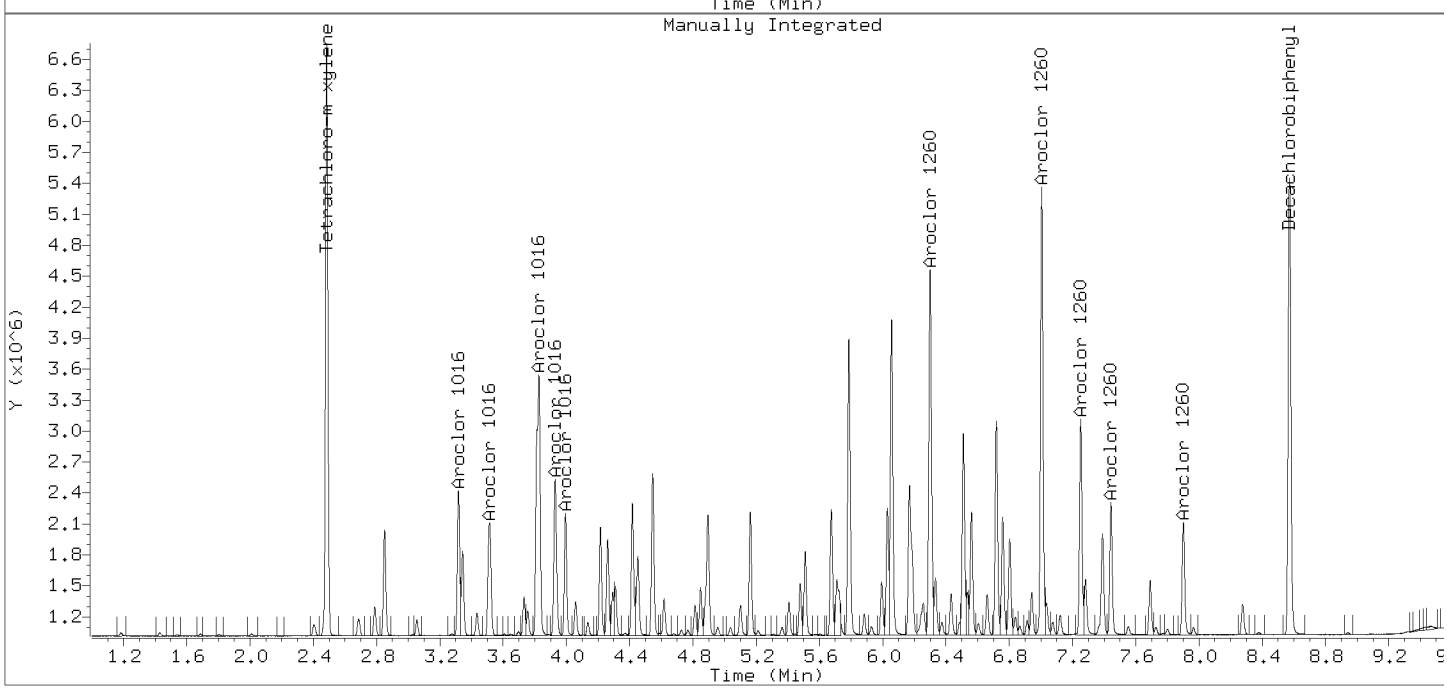
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518004.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 15-MAR-2018 13:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1521212	1526610	BA
Aroclor 1016	1521212	1526610	BA
Aroclor 1016	1521212	1526610	BA
Aroclor 1016	1521212	1526610	BA
Aroclor 1016	1521212	1526610	BA
Aroclor 1260	4250198	4266030	BA
Aroclor 1260	4250198	4266030	BA
Aroclor 1260	4250198	4266030	BA
Aroclor 1260	4250198	4266030	BA
Aroclor 1260	4250198	4266030	BA
Tetrachloro-m-xylene	6042503	6042503	
Decachlorobiphenyl	5402617	5402617	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 15-MAR-2018 17:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.185	34287	21870	0.638	0.19			
1.430	32625	31025	0.951	0.18			
1.539	15285	13551	0.887	0.08			
1.685	18582	17488	0.941	0.10			
1.805	514104	450137	0.876	2.93		1 Aroclor 1221	BA
2.011	23041	15154	0.658	0.13			
2.161	13655	10890	0.798	0.07			
2.197	164507	142315	0.865	0.94			
2.408	265978	195045	0.733	1.52		1 Aroclor 1221	BA
2.485	5998982	5759238	0.960	34.58	$	2 Tetrachloro-m-xylene	BA
2.688	689620	580287	0.841	3.94		1 Aroclor 1221	BA
2.789	541711	518765	0.958	3.09		1 Aroclor 1221	BA
2.850	1668384	1491579	0.894	9.53		1 Aroclor 1221	BA
3.031	12369	11976	0.968	0.07			
3.052	36445	30316	0.832	0.20			
3.215	11717	8383	0.715	0.06			
3.281	130479	96245	0.738	0.74			
3.325	409968	236007	0.576	2.34			
3.434	46970	32053	0.682	0.26			
3.512	145219	107624	0.741	0.83			
3.611	20608	18914	0.918	0.11			
3.697	11917	11060	0.928	0.06			
3.732	41773	44607	1.068	0.23			
3.756	44416	40906	0.921	0.25			
3.826	342182	207592	0.607	1.95			
3.928	165253	138674	0.839	0.94			
3.994	103663	99758	0.962	0.59			
4.053	24227	19513	0.805	0.13			
4.215	34513	32390	0.938	0.19			
4.261	33196	33823	1.019	0.18			
4.295	22257	13920	0.625	0.12			
4.419	23686	29749	1.256	0.13			
4.546	55767	49412	0.886	0.31			
4.620	12597	12319	0.978	0.07			
4.813	22364	20669	0.924	0.12			
4.848	35533	38054	1.071	0.20			
4.881	53431	39922	0.747	0.30			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.038	35299	36404	1.031	0.20	
5.154	11439	7547	0.660	0.06	
5.513	14063	13617	0.968	0.08	
5.698	11975	7282	0.608	0.06	
6.023	9811	8638	0.880	0.05	
6.194	14642	9745	0.666	0.08	
6.443	15885	9216	0.580	0.09	
7.128	13121	11193	0.853	0.07	
7.726	22619	18512	0.818	0.12	
7.771	11297	7675	0.679	0.06	
7.801	12642	12405	0.981	0.07	
8.275	52449	40816	0.778	0.29	
8.377	17622	14038	0.797	0.10	
8.571	5381962	4743528	0.881	30.76	$ 12 Decachlorobiphenyl
8.942	15007	13407	0.893	0.08	
9.464	15265	12447	0.815	0.08	
9.955	15817	9456	0.598	0.09	
	17492228	15597156		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 15-MAR-2018 17:00
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5998982	0.05000	0.049		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	514104	0.50000	0.49	0.00- 20.00	100.00(M)	BA
2.407	2.407	0.000	265978	0.50000	0.48	0.00- 20.00	51.74	BA
2.688	2.688	0.000	689620	0.50000	0.50	0.00- 20.00	134.14	BA
2.789	2.789	0.000	541711	0.50000	0.49	0.00- 20.00	105.37	BA
2.850	2.851	-0.001	1668384	0.50000	0.51	0.00- 20.00	324.52	BA
Average of Peak Amounts =					0.49400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5381961	0.05000	0.049			

QC Flag Legend

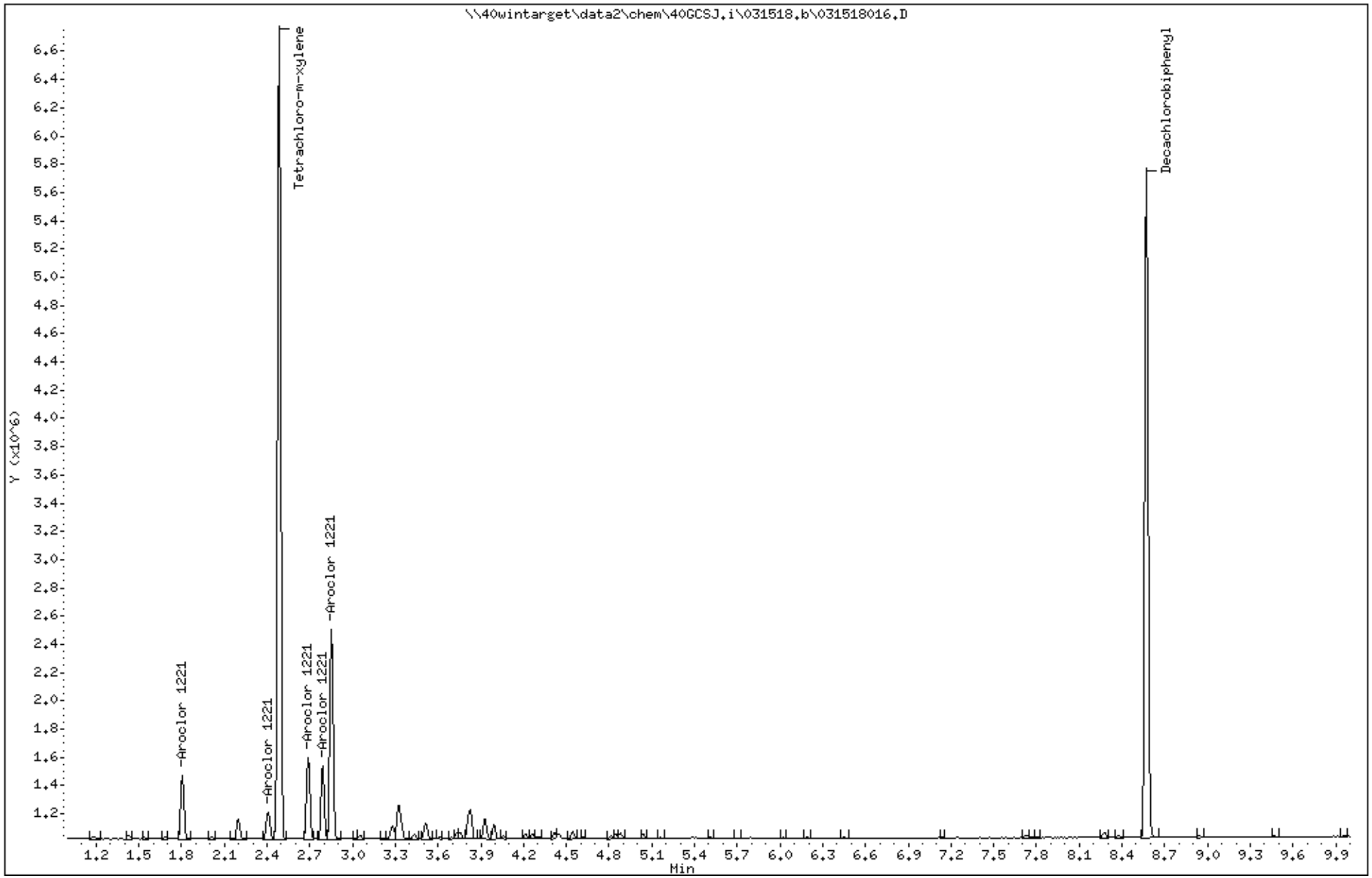
M - Compound response manually integrated.

Review Codes Legend

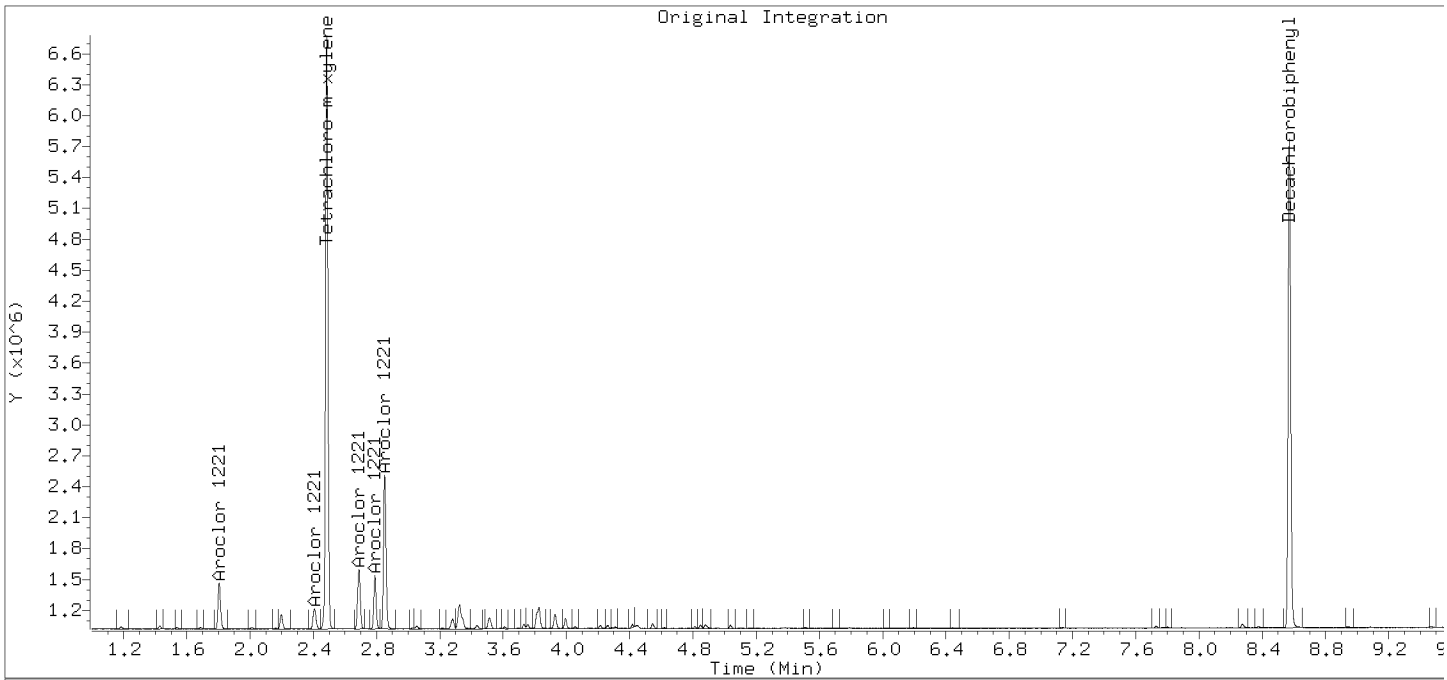
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

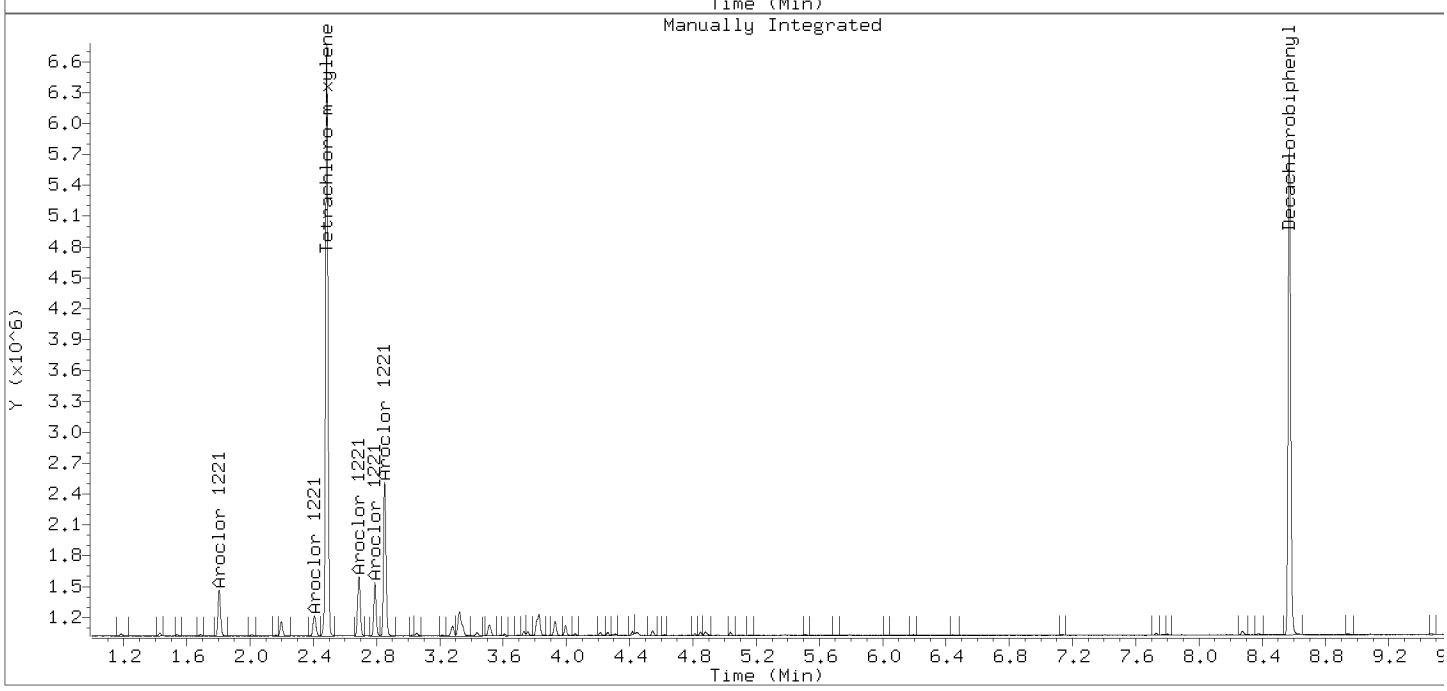
Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518016.D
Date : 15-MAR-2018 17:00
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518016.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 15-MAR-2018 17:00 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	512627	514104	BA
Aroclor 1221	512627	514104	BA
Aroclor 1221	512627	514104	BA
Aroclor 1221	512627	514104	BA
Aroclor 1221	512627	514104	BA
Tetrachloro-m-xylene	5986077	5998982	BA
Decachlorobiphenyl	5381961	5381961	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 15-MAR-2018 20:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.187	13897	12312	0.886	0.04		
1.431	37715	31031	0.823	0.13		
1.534	21822	14760	0.676	0.07		
1.686	22541	19426	0.862	0.07		
1.804	312003	275152	0.882	1.08		
2.196	93092	84533	0.908	0.32		
2.406	211846	153713	0.726	0.73		
2.484	6144298	5954901	0.969	21.85	$ 2 Tetrachloro-m-xylene	
2.564	11185	6669	0.596	0.03		
2.687	461317	385970	0.837	1.61		
2.788	428079	402170	0.939	1.49		
2.850	1385092	1261961	0.911	4.83	4 Aroclor 1232	BA
3.054	96972	81211	0.837	0.33		
3.278	82496	59677	0.723	0.28		
3.317	801950	705486	0.880	2.79		
3.343	425642	399490	0.939	1.48		
3.433	127656	113758	0.891	0.44		
3.514	722602	530006	0.733	2.52	4 Aroclor 1232	BA
3.608	26442	22470	0.850	0.09		
3.695	26940	25867	0.960	0.09		
3.731	192772	194563	1.009	0.67		
3.754	145952	129215	0.885	0.50		
3.826	2098285	1266896	0.604	7.32	4 Aroclor 1232	BA
3.928	894883	773928	0.865	3.12	4 Aroclor 1232	BA
3.994	583508	566411	0.971	2.03	4 Aroclor 1232	BA
4.057	156010	138837	0.890	0.54		
4.135	65959	53842	0.816	0.23		
4.214	421037	408526	0.970	1.46		
4.260	406839	393002	0.966	1.41		
4.293	175865	180075	1.024	0.61		
4.310	208431	198105	0.950	0.72		
4.370	23002	15477	0.673	0.08		
4.416	576065	544296	0.945	2.01		
4.451	468720	335299	0.715	1.63		
4.545	732512	709170	0.968	2.55		
4.617	180501	161732	0.896	0.62		
4.727	38351	34982	0.912	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.767	41705	39762	0.953	0.14	
4.812	344663	337808	0.980	1.20	
4.847	596742	579434	0.971	2.08	
4.878	751490	600689	0.799	2.62	
4.959	76992	63623	0.826	0.26	
5.036	643950	618601	0.961	2.24	
5.099	117599	89427	0.760	0.41	
5.161	134715	124928	0.927	0.47	
5.211	95001	86992	0.916	0.33	
5.304	22333	18995	0.851	0.07	
5.362	82101	77851	0.948	0.28	
5.405	156971	122218	0.779	0.54	
5.445	84077	78275	0.931	0.29	
5.509	238537	186217	0.781	0.83	
5.603	70771	63744	0.901	0.24	
5.670	13011	11385	0.875	0.04	
5.717	14852	14023	0.944	0.05	
5.738	19352	16046	0.829	0.06	
5.791	155179	133505	0.860	0.54	
5.884	13438	13956	1.039	0.04	
6.023	136294	125107	0.918	0.47	
6.054	35357	29140	0.824	0.12	
6.170	19837	14202	0.716	0.06	
6.299	41645	37756	0.907	0.14	
6.511	12649	12364	0.977	0.04	
6.530	10465	9410	0.899	0.03	
6.558	9824	9673	0.985	0.03	
6.714	15553	13276	0.854	0.05	
6.800	12088	10155	0.840	0.04	
7.007	29745	25073	0.843	0.10	
7.127	14227	9502	0.668	0.04	
7.252	17886	13433	0.751	0.06	
7.729	23618	18710	0.792	0.08	
7.801	12813	10568	0.825	0.04	
7.901	11788	9909	0.841	0.04	
8.274	49972	42550	0.851	0.17	
8.374	20054	13130	0.655	0.06	
8.571	5603417	4833532	0.863	19.55	$ 12 Decachlorobiphenyl
8.941	21852	15207	0.696	0.07	
9.467	28498	18888	0.663	0.09	
9.964	28601	19223	0.672	0.09	
	28651939	25213206		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 15-MAR-2018 20:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.483	2.484	-0.001	6144297	0.05000	0.050			
4 Aroclor 1232					CAS #: 1114-16-5			
2.850	2.851	-0.001	1385092	0.50000	0.55	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	722601	0.50000	0.54	0.00- 20.00	52.17	BA
3.825	3.827	-0.002	2098284	0.50000	0.56	0.00- 20.00	151.49	BA
3.928	3.929	-0.001	894883	0.50000	0.56	0.00- 20.00	64.61	BA
3.993	3.995	-0.002	583507	0.50000	0.53	0.00- 20.00	42.13	BA
Average of Peak Amounts =					0.54800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5603416	0.05000	0.051			

QC Flag Legend

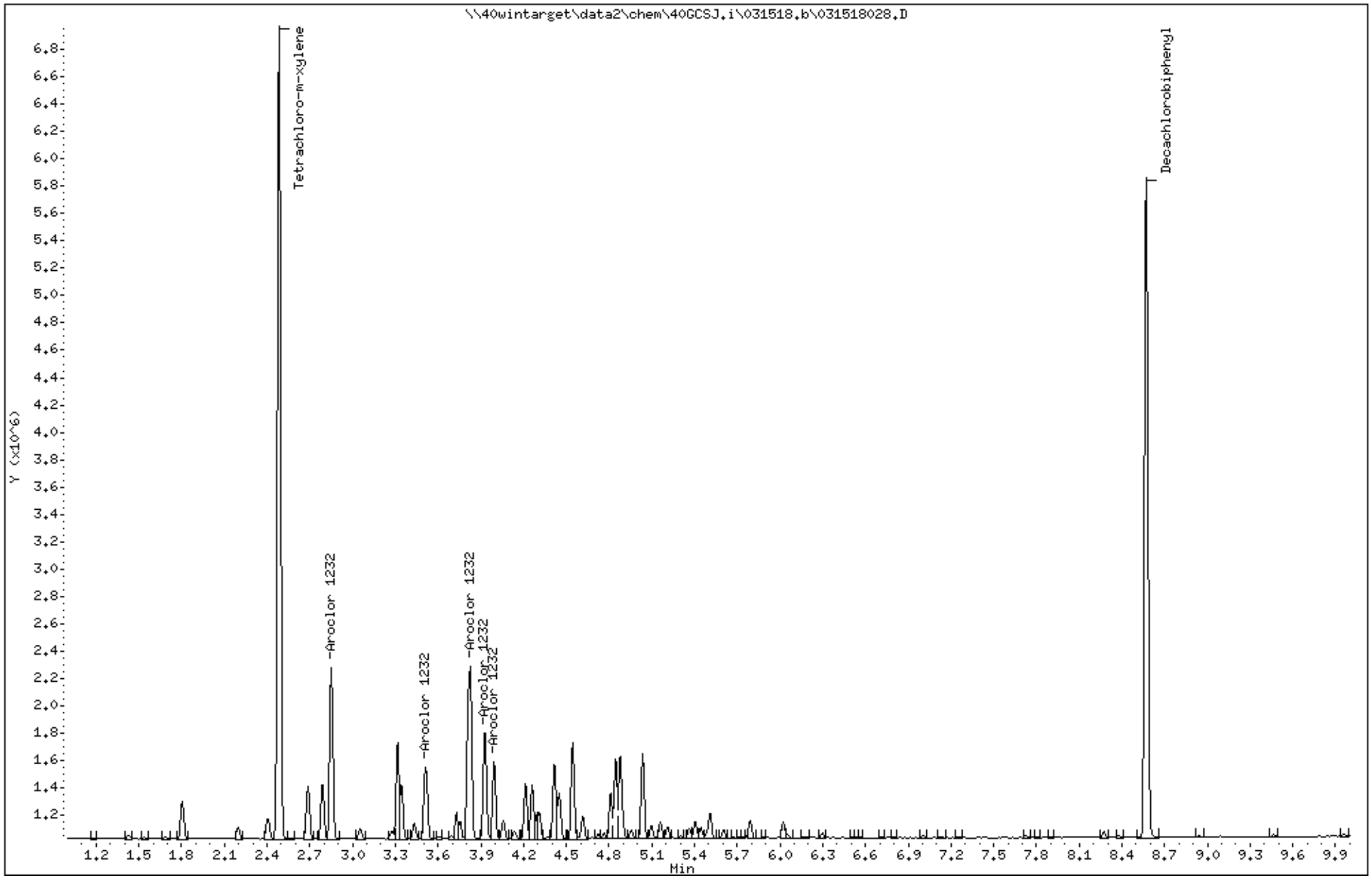
M - Compound response manually integrated.

Review Codes Legend

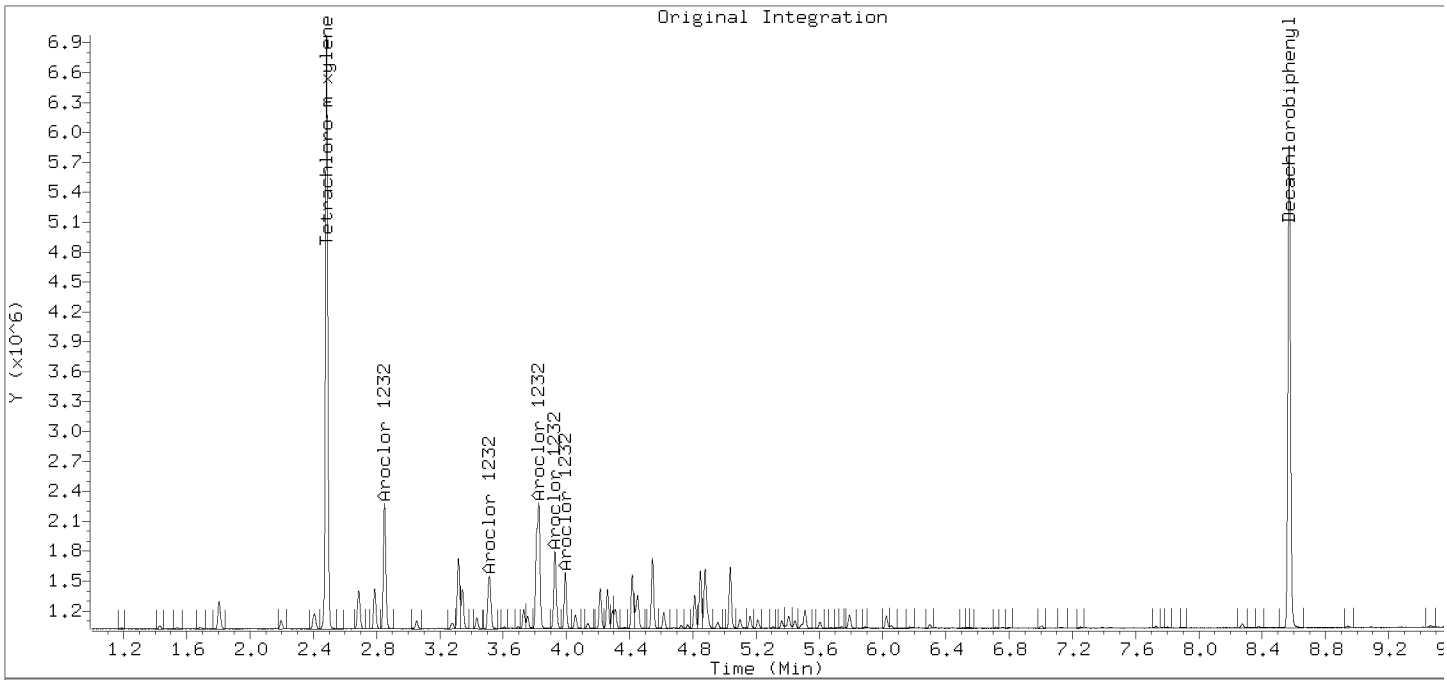
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

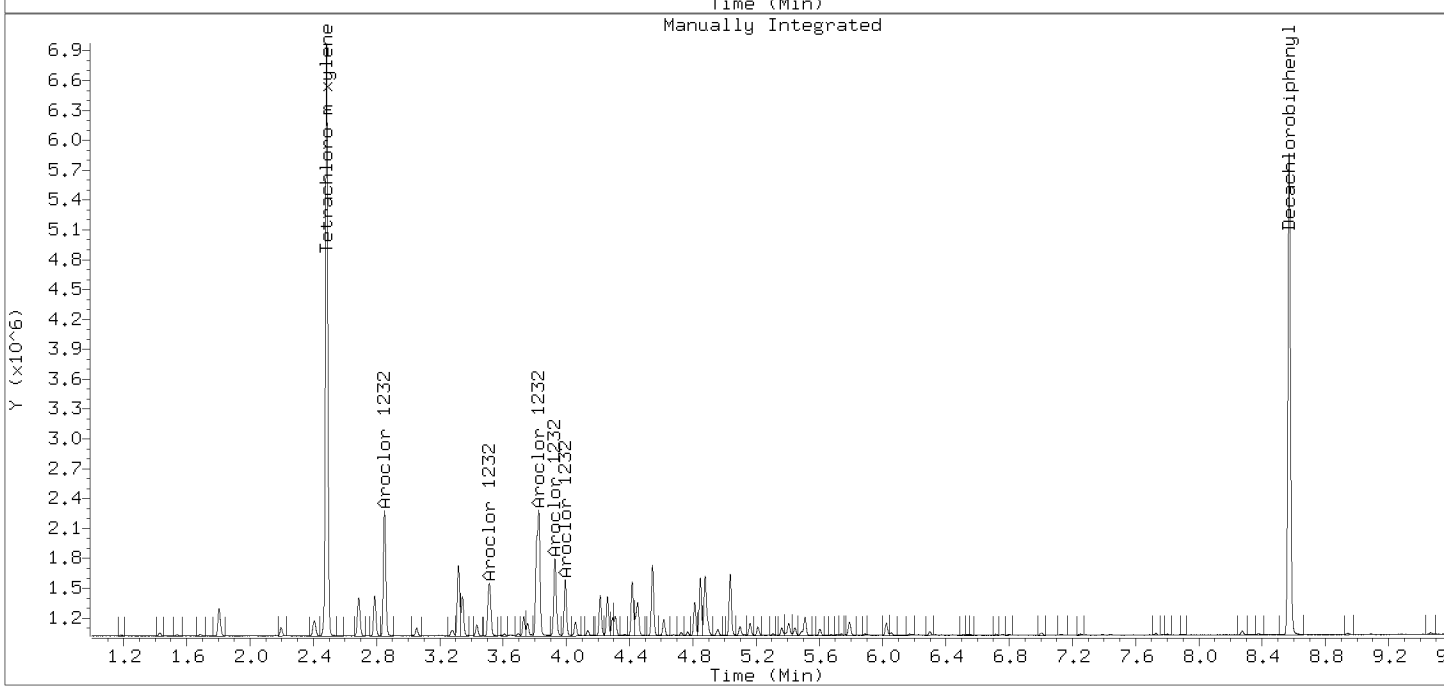
Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518028.D
Date : 15-MAR-2018 20:10
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518028.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 15-MAR-2018 20:10 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1373996	1385092	BA
Aroclor 1232	1373996	1385092	BA
Aroclor 1232	1373996	1385092	BA
Aroclor 1232	1373996	1385092	BA
Aroclor 1232	1373996	1385092	BA
Tetrachloro-m-xylene	6144297	6144297	
Decachlorobiphenyl	5603416	5603416	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518034.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 15-MAR-2018 21:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	24179	17797	0.736	0.06		
1.428	37741	32316	0.856	0.09		
1.537	12266	11381	0.928	0.03		
1.685	24100	17489	0.726	0.06		
1.801	12754	8652	0.678	0.03		
2.008	14156	10823	0.765	0.03		
2.118	9954	7677	0.771	0.02		
2.405	124777	96095	0.770	0.31		
2.484	6047281	5884390	0.973	15.44	$ 2 Tetrachloro-m-xylene	
2.686	181659	150059	0.826	0.45		
2.788	273215	260784	0.954	0.68		
2.850	965332	911348	0.944	2.40		
3.053	138120	128433	0.930	0.34		
3.279	26894	18303	0.681	0.06		
3.317	1323130	1231911	0.931	3.29	3 Aroclor 1242	BA
3.344	733922	704361	0.960	1.82		
3.434	212408	190969	0.899	0.52		
3.511	1297354	940838	0.725	3.23	3 Aroclor 1242	BA
3.606	23019	20267	0.880	0.05		
3.646	25398	17390	0.685	0.06		
3.694	41970	38912	0.927	0.10		
3.731	337086	335083	0.994	0.83		
3.754	224680	210613	0.937	0.55		
3.826	3757128	2205647	0.587	9.35	3 Aroclor 1242	BA
3.928	1602984	1364835	0.851	3.99	3 Aroclor 1242	BA
3.994	1062486	1032044	0.971	2.64	3 Aroclor 1242	BA
4.058	307461	278297	0.905	0.76		
4.135	120782	106695	0.883	0.30		
4.214	872154	841040	0.964	2.17		
4.260	842883	807173	0.958	2.09		
4.292	361233	352956	0.977	0.89		
4.309	420511	412468	0.981	1.04		
4.373	32295	22818	0.707	0.08		
4.416	1176914	1102333	0.937	2.93		
4.451	900262	660559	0.734	2.24		
4.545	1507078	1397268	0.927	3.75		
4.591	16349	19754	1.208	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.617	337933	316556	0.937	0.84	
4.676	22199	18981	0.855	0.05	
4.725	75706	64436	0.851	0.18	
4.767	83657	79028	0.945	0.20	
4.812	728446	713484	0.979	1.81	
4.847	1239684	1208379	0.975	3.08	
4.877	1563488	1248501	0.799	3.89	
4.956	169566	141566	0.835	0.42	
5.037	1323590	1262373	0.954	3.29	
5.098	268995	211063	0.785	0.66	
5.162	317791	287300	0.904	0.79	
5.212	245800	224400	0.913	0.61	
5.286	20511	18917	0.922	0.05	
5.308	57793	47955	0.830	0.14	
5.362	220627	181973	0.825	0.54	
5.406	349119	302481	0.866	0.86	
5.445	224247	197078	0.879	0.55	
5.510	575427	462593	0.804	1.43	
5.603	174321	151050	0.867	0.43	
5.716	43216	28997	0.671	0.10	
5.740	46028	42894	0.932	0.11	
5.764	16886	21014	1.244	0.04	
5.791	398620	363640	0.912	0.99	
5.889	61399	41524	0.676	0.15	
5.992	12548	12555	1.001	0.03	
6.022	350567	318465	0.908	0.87	
6.055	62961	49942	0.793	0.15	
6.168	35453	21438	0.605	0.08	
6.224	20772	14774	0.711	0.05	
6.298	110783	99103	0.895	0.27	
6.333	23176	20952	0.904	0.05	
6.371	14461	13735	0.950	0.03	
6.535	42509	36995	0.870	0.10	
6.717	12113	7040	0.581	0.03	
6.800	29284	26240	0.896	0.07	
6.838	9380	8136	0.867	0.02	
7.003	15020	10556	0.703	0.03	
7.128	18477	11770	0.637	0.04	
7.249	20348	10756	0.529	0.05	
7.727	21780	19276	0.885	0.05	
8.274	51805	44190	0.853	0.12	
8.378	15172	12418	0.818	0.03	
8.570	5568324	4773841	0.857	13.86	$ 12 Decachlorobiphenyl
8.935	19538	11584	0.593	0.04	
9.465	25441	13955	0.549	0.06	
9.960	19386	13346	0.688	0.04	
	40156262	35037028		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518034.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 15-MAR-2018 21:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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: 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		
2.483	2.484	-0.001	6047281	0.05000	0.049			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1323130	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.511	3.513	-0.002	1297353	0.50000	0.51	0.00- 20.00	98.05	BA
3.826	3.827	-0.001	3757128	0.50000	0.53	0.00- 20.00	283.96	BA
3.928	3.929	-0.001	1602983	0.50000	0.53	0.00- 20.00	121.15	BA
3.993	3.995	-0.002	1062485	0.50000	0.52	0.00- 20.00	80.30	BA
Average of Peak Amounts =					0.52200			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5568324	0.05000	0.051			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518034.D

Date : 15-MAR-2018 21:45

Client ID: 1242-CCV

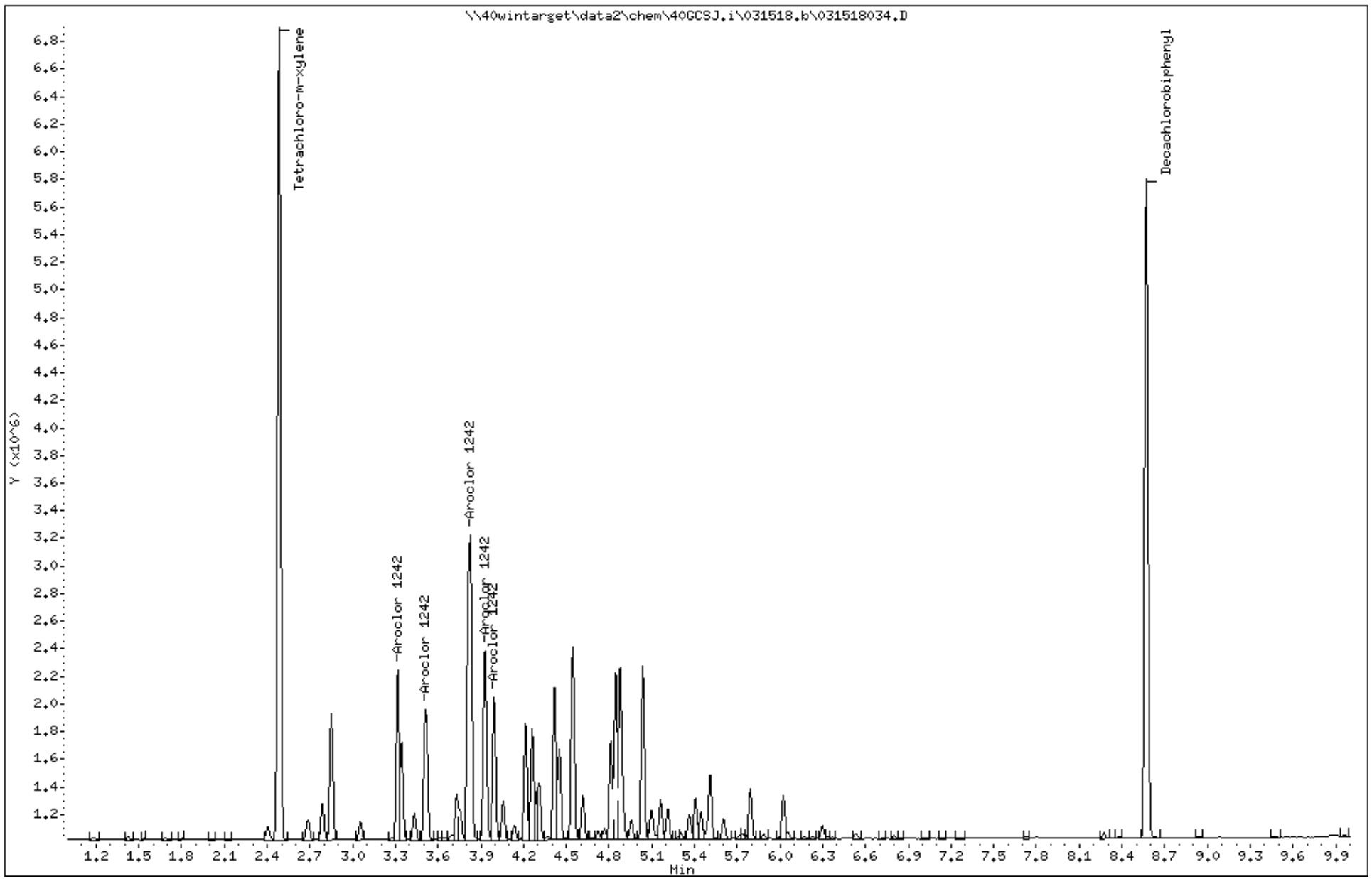
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

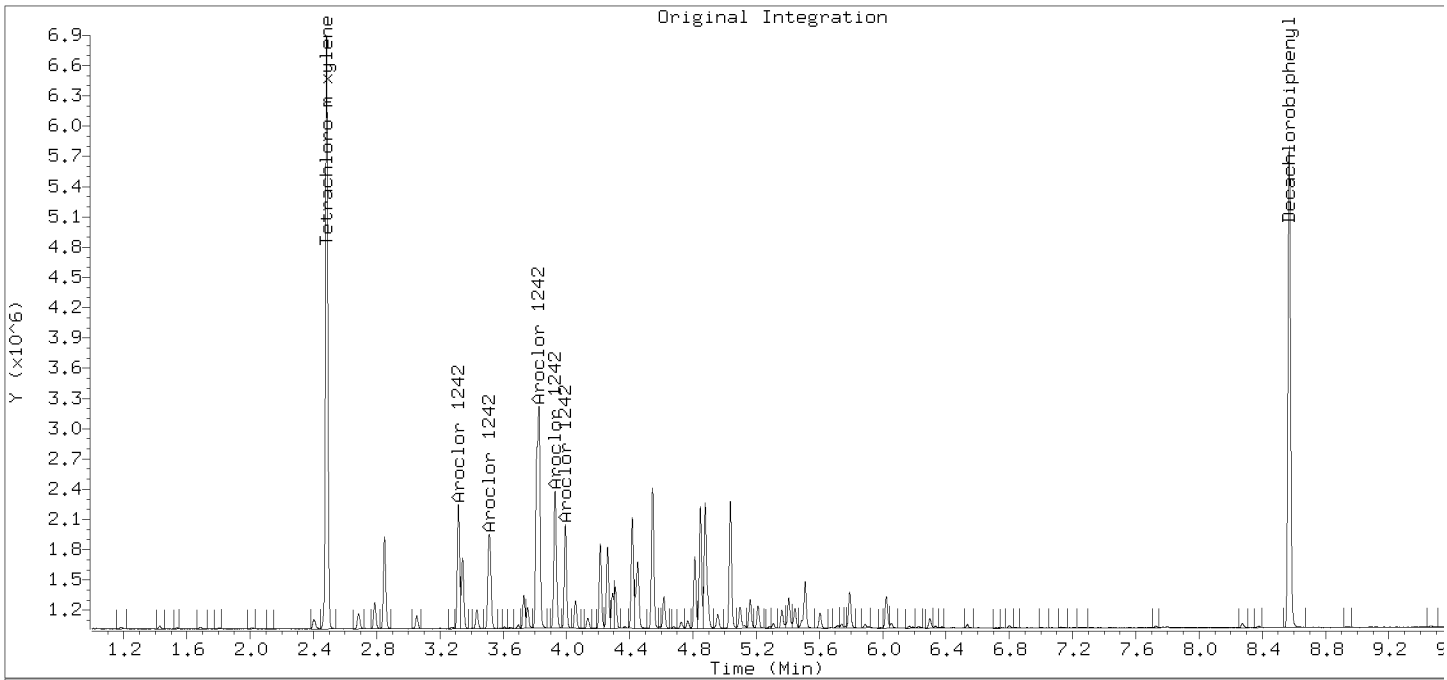
Operator: BLM

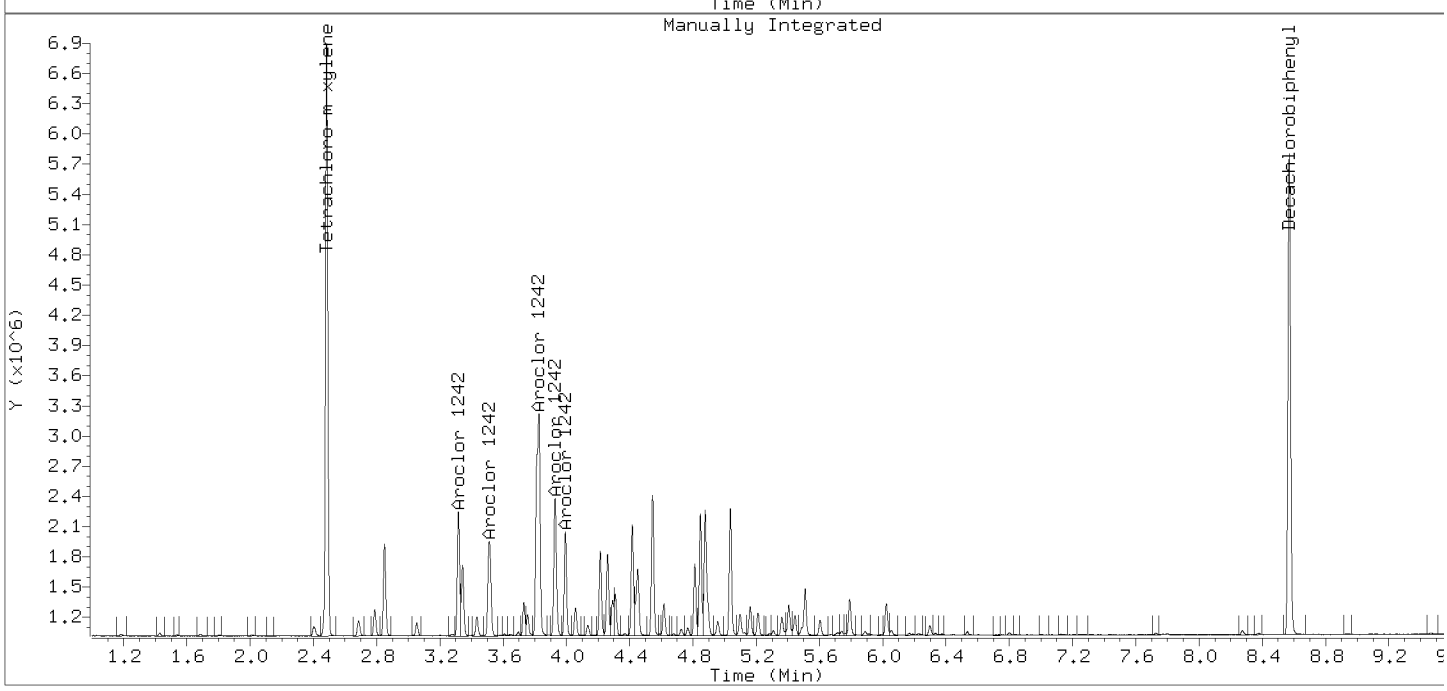
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518034.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 15-MAR-2018 21:45 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1314837	1323130	BA
Aroclor 1242	1314837	1323130	BA
Aroclor 1242	1314837	1323130	BA
Aroclor 1242	1314837	1323130	BA
Aroclor 1242	1314837	1323130	BA
Tetrachloro-m-xylene	6047281	6047281	
Decachlorobiphenyl	5568324	5568324	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 20-MAR-2018 13:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 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
1.182	18769	12886	0.687	0.07		
1.429	32246	27140	0.842	0.13		
1.538	17672	12686	0.718	0.07		
1.687	16874	12883	0.763	0.06		
1.805	279489	238736	0.854	1.14		
2.014	16714	9586	0.574	0.06		
2.197	80947	68027	0.840	0.33		
2.406	183636	136726	0.745	0.75		
2.485	5513237	5173006	0.938	22.96	$ 2 Tetrachloro-m-xylene	
2.688	400252	323681	0.809	1.64		
2.789	367326	336893	0.917	1.50		
2.851	1173523	1049934	0.895	4.81	4 Aroclor 1232	BA
3.055	85153	70376	0.826	0.34		
3.279	64210	44787	0.698	0.26		
3.317	685428	616910	0.900	2.81		
3.344	375417	346526	0.923	1.54		
3.434	113456	99387	0.876	0.46		
3.513	636911	461134	0.724	2.61	4 Aroclor 1232	BA
3.611	18225	15806	0.867	0.07		
3.697	22969	22403	0.975	0.09		
3.731	163746	166117	1.014	0.67		
3.756	111768	104889	0.938	0.45		
3.827	1704173	1002873	0.588	6.99	4 Aroclor 1232	BA
3.930	729265	611968	0.839	2.99	4 Aroclor 1232	BA
3.995	476866	448043	0.940	1.95	4 Aroclor 1232	BA
4.059	146129	125560	0.859	0.59		
4.135	56862	49166	0.865	0.23		
4.214	372764	344032	0.923	1.52		
4.261	356747	334540	0.938	1.46		
4.292	152163	151604	0.996	0.62		
4.310	180155	172692	0.959	0.73		
4.373	17531	12740	0.727	0.07		
4.417	492777	468755	0.951	2.02		
4.452	394065	275637	0.699	1.61		
4.546	624327	571499	0.915	2.56		
4.618	155625	138250	0.888	0.63		
4.727	35969	29926	0.832	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.766	37422	33152	0.886	0.15	
4.812	271193	259278	0.956	1.11	
4.847	471065	441517	0.937	1.93	
4.878	603935	454838	0.753	2.47	
4.958	75526	56837	0.753	0.30	
5.037	497238	449752	0.905	2.04	
5.097	108384	80076	0.739	0.44	
5.162	121126	104311	0.861	0.49	
5.213	84295	73595	0.873	0.34	
5.308	26103	19600	0.751	0.10	
5.363	78887	64046	0.812	0.32	
5.408	122066	103261	0.846	0.50	
5.446	75099	62808	0.836	0.30	
5.508	205816	148969	0.724	0.84	
5.603	61375	53470	0.871	0.25	
5.674	15851	12606	0.795	0.06	
5.709	20116	12800	0.636	0.08	
5.740	16529	14655	0.887	0.06	
5.792	125160	99179	0.792	0.51	
6.025	99686	86279	0.866	0.40	
6.054	28489	26115	0.917	0.11	
6.168	17974	11588	0.645	0.07	
6.298	36679	29319	0.799	0.15	
6.718	16213	12381	0.764	0.06	
7.003	24916	18794	0.754	0.10	
7.125	23452	12320	0.525	0.09	
7.250	13992	10776	0.770	0.05	
7.728	21558	21775	1.010	0.08	
7.801	24229	20216	0.834	0.09	
8.276	43111	35648	0.827	0.17	
8.375	10847	10387	0.958	0.04	
8.571	4722561	3845910	0.814	19.37	$ 12 Decachlorobiphenyl
	24374284	20774062		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 20-MAR-2018 13:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 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		
2.484	2.484	0.000	5513237	0.05000	0.045			
4 Aroclor 1232						CAS #: 1114-16-5		
2.850	2.851	-0.001	1173523	0.50000	0.47	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	636911	0.50000	0.48	0.00- 20.00	54.27	BA
3.826	3.827	-0.001	1704173	0.50000	0.45	0.00- 20.00	145.22	BA
3.929	3.929	0.000	729265	0.50000	0.45	0.00- 20.00	62.14	BA
3.994	3.995	-0.001	476866	0.50000	0.44	0.00- 20.00	40.64	BA
Average of Peak Amounts =					0.45800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	4722561	0.05000	0.043			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

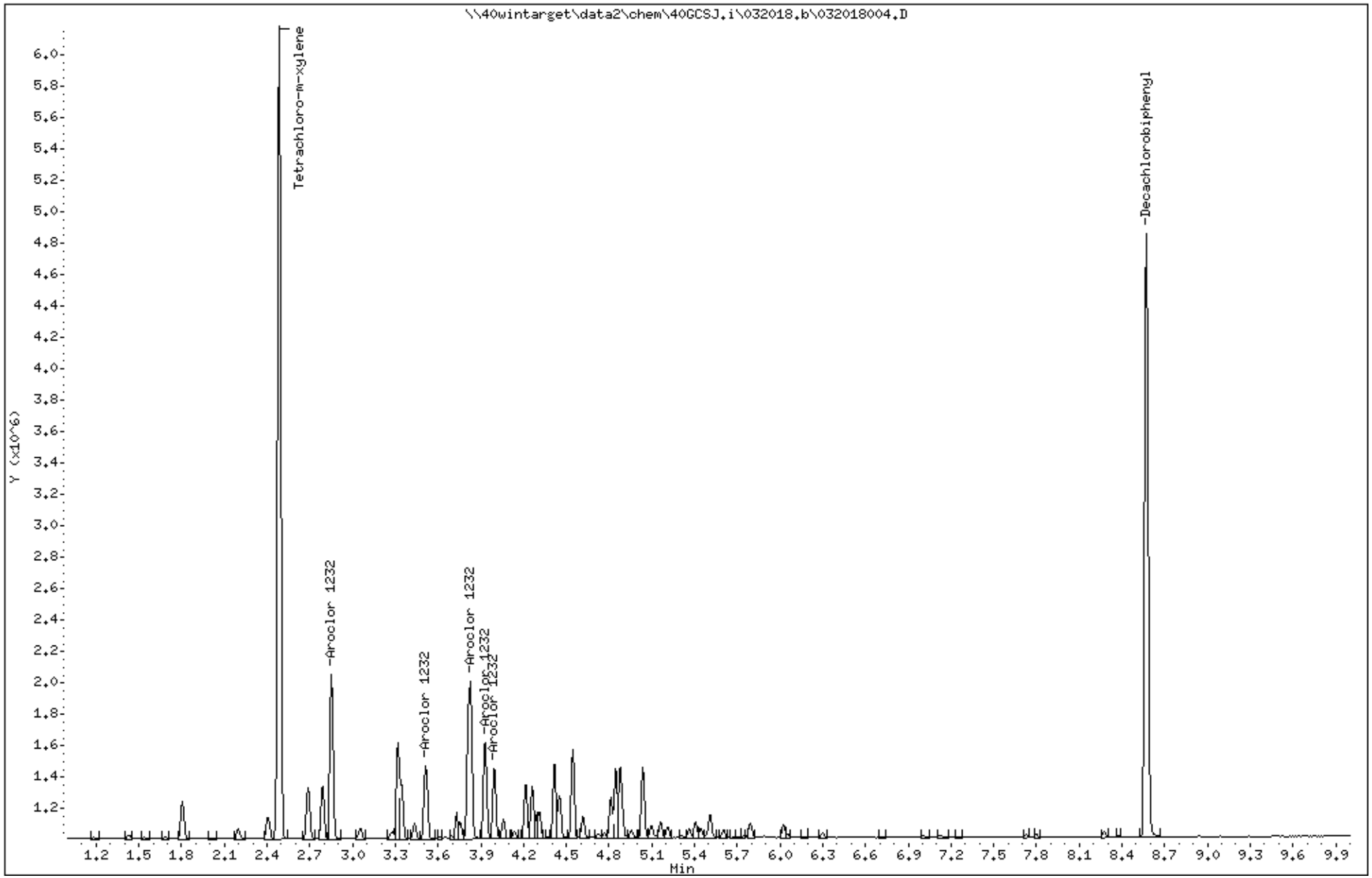
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018004.D
Date : 20-MAR-2018 13:19
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

Instrument: 40GCSJ.i

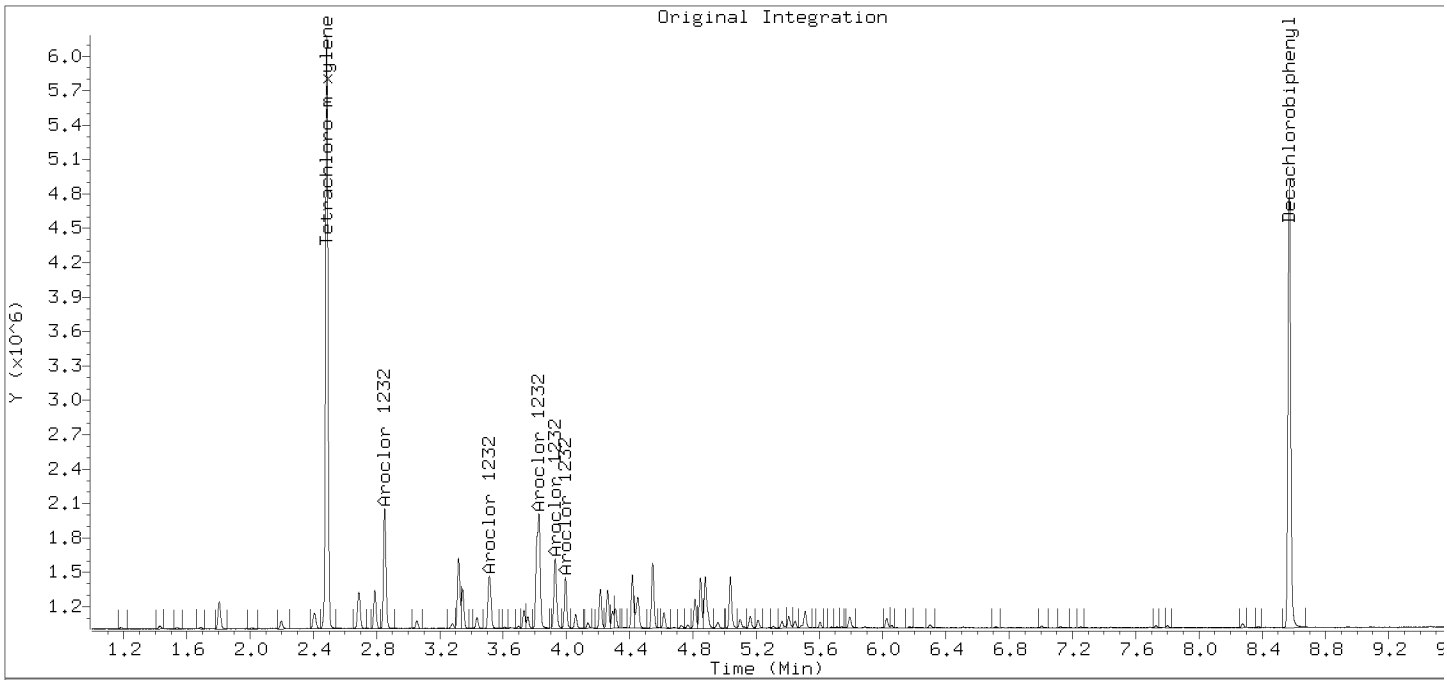
Operator: BLM

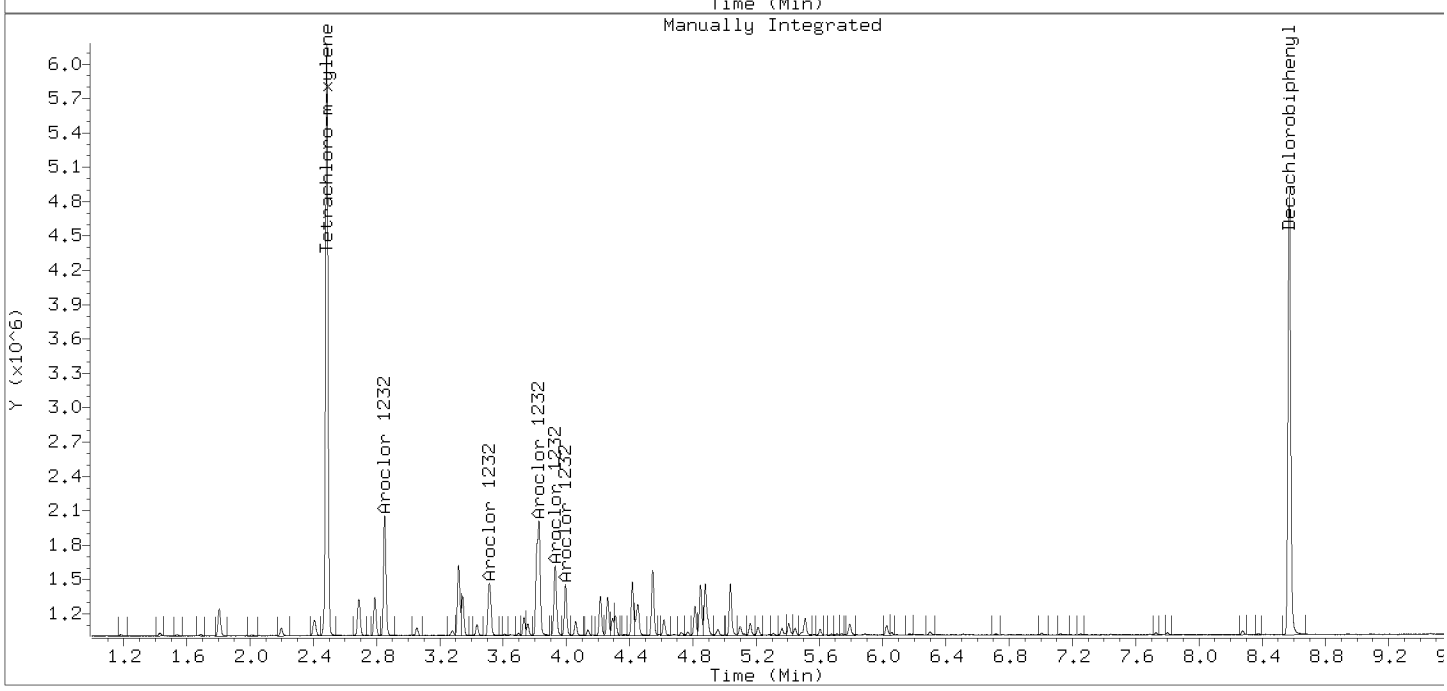
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018004.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 20-MAR-2018 13:19 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1164977	1173523	BA
Aroclor 1232	1164977	1173523	BA
Aroclor 1232	1164977	1173523	BA
Aroclor 1232	1164977	1173523	BA
Aroclor 1232	1164977	1173523	BA
Tetrachloro-m-xylene	5513237	5513237	
Decachlorobiphenyl	4722561	4722561	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 20-MAR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	47537	36386	0.765	0.12		
1.431	34071	30996	0.910	0.08		
1.537	23782	16295	0.685	0.06		
1.686	19523	18852	0.966	0.05		
1.804	13553	12000	0.885	0.03		
2.010	25710	17582	0.684	0.06		
2.405	122316	91466	0.748	0.31		
2.484	5969109	5729938	0.960	15.88	$ 2 Tetrachloro-m-xylene	
2.687	171691	142551	0.830	0.44		
2.788	266038	251563	0.946	0.69		
2.850	928130	860330	0.927	2.41		
3.030	9298	9246	0.994	0.02		
3.054	137243	126924	0.925	0.35		
3.277	24967	18499	0.741	0.06		
3.318	1276490	1191897	0.934	3.31	3 Aroclor 1242	BA
3.344	727563	683689	0.940	1.89		
3.435	202188	182850	0.904	0.52		
3.513	1261881	906771	0.719	3.27	3 Aroclor 1242	BA
3.609	20578	18722	0.910	0.05		
3.645	20839	16895	0.811	0.05		
3.695	35496	37348	1.052	0.09		
3.731	322022	315106	0.979	0.83		
3.755	204643	198166	0.968	0.53		
3.826	3561407	2085011	0.585	9.25	3 Aroclor 1242	BA
3.928	1527637	1243480	0.814	3.97	3 Aroclor 1242	BA
3.994	1022344	971583	0.950	2.65	3 Aroclor 1242	BA
4.059	305638	267848	0.876	0.79		
4.136	120161	106523	0.887	0.31		
4.214	850376	783754	0.922	2.21		
4.261	816845	785877	0.962	2.12		
4.292	318376	350236	1.100	0.82		
4.310	445172	385531	0.866	1.15		
4.370	25042	20782	0.830	0.06		
4.417	1117389	1056118	0.945	2.90		
4.452	871962	643862	0.738	2.26		
4.545	1469124	1329484	0.905	3.81		
4.618	337572	301895	0.894	0.87		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.679	22931	18966	0.827	0.05	
4.725	70888	59009	0.832	0.18	
4.769	81572	75761	0.929	0.21	
4.813	668602	635712	0.951	1.73	
4.848	1147158	1078495	0.940	2.98	
4.879	1499236	1086023	0.724	3.89	
4.958	181808	131797	0.725	0.47	
5.037	1216160	1107589	0.911	3.16	
5.099	273516	209972	0.768	0.71	
5.162	310249	275455	0.888	0.80	
5.213	234347	209922	0.896	0.60	
5.286	19361	20123	1.039	0.05	
5.311	57711	45006	0.780	0.15	
5.363	203953	171215	0.839	0.53	
5.406	334512	285150	0.852	0.86	
5.447	218635	182548	0.835	0.56	
5.509	543162	412066	0.759	1.41	
5.604	166982	138964	0.832	0.43	
5.713	39916	27371	0.686	0.10	
5.742	46903	38646	0.824	0.12	
5.792	377948	302875	0.801	0.98	
5.891	46881	33797	0.721	0.12	
5.991	12860	12654	0.984	0.03	
6.025	306599	253744	0.828	0.79	
6.056	66608	54454	0.818	0.17	
6.168	31958	21225	0.664	0.08	
6.226	26828	16286	0.607	0.06	
6.299	102864	85183	0.828	0.26	
6.333	22218	18437	0.830	0.05	
6.376	12987	12359	0.952	0.03	
6.440	12993	9648	0.743	0.03	
6.538	39899	30451	0.763	0.10	
6.801	23279	19654	0.844	0.06	
7.004	10373	8347	0.805	0.02	
7.130	22022	13808	0.627	0.05	
7.252	16455	10003	0.608	0.04	
7.727	22510	19834	0.881	0.05	
7.801	11567	12711	1.099	0.03	
8.273	51945	38191	0.735	0.13	
8.378	24040	17476	0.727	0.06	
8.570	5170561	4324165	0.836	13.43	$ 12 Decachlorobiphenyl
8.938	27108	15441	0.570	0.07	
9.467	21603	15652	0.725	0.05	
9.960	19905	14335	0.720	0.05	
	38473325	32816576		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 20-MAR-2018 16:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 27-Mar-2018 10:54 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	5969108	0.05000	0.048			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1276490	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1261880	0.50000	0.50	0.00- 20.00	98.86	BA
3.826	3.827	-0.001	3561406	0.50000	0.50	0.00- 20.00	279.00	BA
3.928	3.929	-0.001	1527637	0.50000	0.50	0.00- 20.00	119.67	BA
3.994	3.995	-0.001	1022343	0.50000	0.50	0.00- 20.00	80.09	BA
Average of Peak Amounts =					0.50000			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.570	8.571	-0.001	5170560	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\032018.b\032018016.D

Date : 20-MAR-2018 16:29

Client ID: 1242-CCV

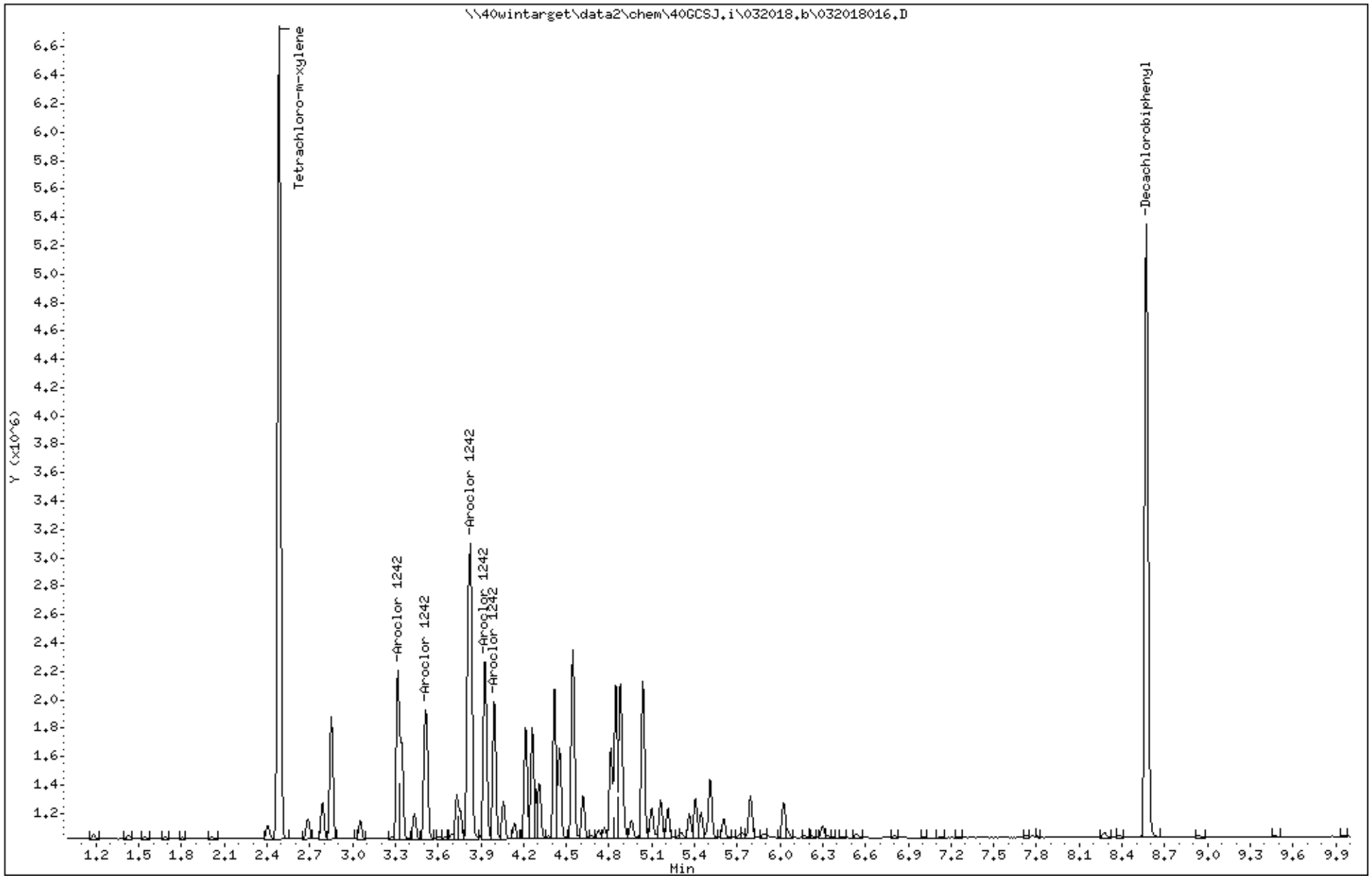
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

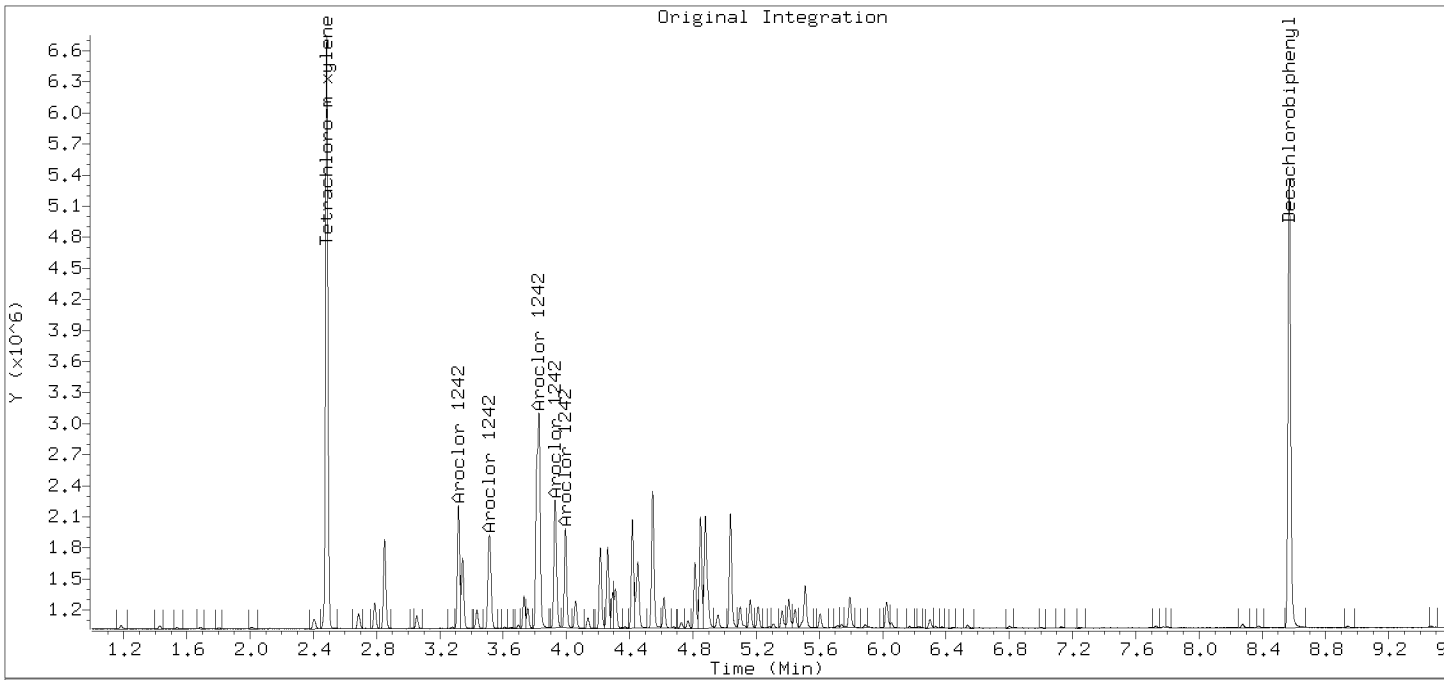
Operator: BLM

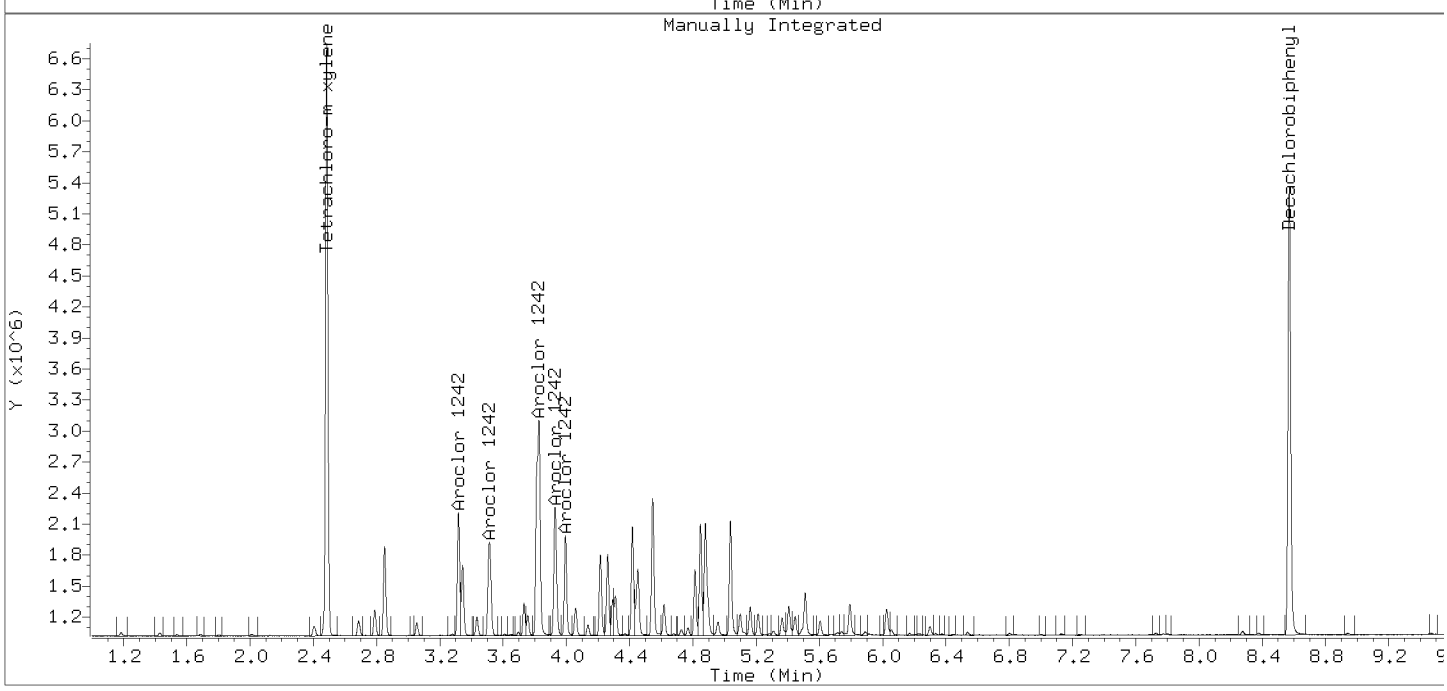
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 20-MAR-2018 16:29 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Aroclor 1242	1272085	1276490	BA
Tetrachloro-m-xylene	5969108	5969108	
Decachlorobiphenyl	5170560	5170560	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 20-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 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
1.182	26845	19627	0.731	0.06		
1.429	44298	32220	0.727	0.10		
1.536	17714	14819	0.837	0.04		
1.685	20228	16198	0.801	0.04		
2.009	23262	12693	0.546	0.05		
2.406	25126	19409	0.772	0.05		
2.484	5985102	5625757	0.940	14.02	$ 2 Tetrachloro-m-xylene	
2.684	36648	26192	0.715	0.08		
2.787	113057	104480	0.924	0.25		
2.849	192353	169316	0.880	0.43		
3.029	10404	12208	1.173	0.02		
3.053	59266	54267	0.916	0.13		
3.317	704672	672444	0.954	1.59		
3.343	298847	277232	0.928	0.67		
3.434	65163	59020	0.906	0.14		
3.514	591619	427885	0.723	1.34		
3.612	14316	16374	1.144	0.03		
3.648	12218	8036	0.658	0.02		
3.731	136771	134787	0.985	0.31		
3.754	62009	56481	0.911	0.14		
3.814	1079993	1201131	1.112	2.45		
3.826	1292440	1278810	0.989	2.93		
3.930	897262	690179	0.769	2.03		
3.994	595560	575558	0.966	1.35		
4.058	345569	308745	0.893	0.78		
4.135	146316	130649	0.893	0.33		
4.214	1484117	1387782	0.935	3.36		
4.261	1185176	1113251	0.939	2.68	6 Aroclor 1248	BA
4.293	474727	492723	1.038	1.07		
4.309	533632	494140	0.926	1.21		
4.417	1806540	1680321	0.930	4.09		
4.451	903053	770702	0.853	2.04		
4.545	2073327	1869030	0.901	4.70	6 Aroclor 1248	BA
4.588	32321	33960	1.051	0.07		
4.617	477358	433086	0.907	1.08		
4.681	31142	21409	0.687	0.07		
4.728	64357	50493	0.785	0.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	112351	104099	0.927	0.25	
4.812	1021016	965123	0.945	2.31	6 Aroclor 1248
4.847	1969906	1832720	0.930	4.47	
4.879	2542829	1673313	0.658	5.77	6 Aroclor 1248
4.957	309539	248209	0.802	0.70	
5.037	1808870	1620476	0.896	4.10	6 Aroclor 1248
5.098	651725	520676	0.799	1.47	
5.162	773289	687431	0.889	1.75	
5.212	559032	501854	0.898	1.26	
5.284	44393	39223	0.884	0.10	
5.307	121920	104021	0.853	0.27	
5.363	492683	421348	0.855	1.11	
5.406	811430	714789	0.881	1.84	
5.445	505282	437293	0.865	1.14	
5.509	1357895	1090191	0.803	3.08	
5.604	392423	334758	0.853	0.89	
5.675	51459	41343	0.803	0.11	
5.715	84062	63941	0.761	0.19	
5.739	98889	88417	0.894	0.22	
5.791	946988	742231	0.784	2.14	
5.890	129821	77388	0.596	0.29	
5.993	33491	29394	0.878	0.07	
6.023	759713	651878	0.858	1.72	
6.054	160165	132921	0.830	0.36	
6.168	85208	54003	0.634	0.19	
6.227	57224	29727	0.519	0.12	
6.299	237304	196726	0.829	0.53	
6.331	49336	39719	0.805	0.11	
6.372	43775	29932	0.684	0.09	
6.436	25900	15406	0.595	0.05	
6.509	42096	37093	0.881	0.09	
6.536	94671	65534	0.692	0.21	
6.601	15476	12447	0.804	0.03	
6.718	42063	33590	0.799	0.09	
6.759	21567	17514	0.812	0.04	
6.802	38319	32726	0.854	0.08	
6.843	12703	11632	0.916	0.02	
7.004	74850	62324	0.833	0.16	
7.127	13875	9887	0.713	0.03	
7.251	25433	23576	0.927	0.05	
7.388	32651	27935	0.856	0.07	
7.442	32090	29279	0.912	0.07	
7.687	17429	13430	0.771	0.03	
7.727	29025	24210	0.834	0.06	
7.768	11538	8089	0.701	0.02	
7.799	21755	15904	0.731	0.04	
7.903	25487	22957	0.901	0.05	
8.275	61398	49178	0.801	0.13	
8.380	20081	14778	0.736	0.04	
8.571	5325725	4487616	0.843	12.08	$ 12 Decachlorobiphenyl
8.936	9665	9064	0.938	0.02	
	44068623	38788727		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 20-MAR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\032018.b\pcba030618.m
Meth Date : 02-Apr-2018 12:32 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			
2.483	2.484	-0.001	5985102	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1185176	0.50000	0.50	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2073327	0.50000	0.50	0.00- 20.00	174.94	BA
4.811	4.812	-0.001	1021015	0.50000	0.50	0.00- 20.00	86.15	BA
4.879	4.879	0.000	2542828	0.50000	0.50	0.00- 20.00	214.55	BA
5.036	5.038	-0.002	1808869	0.50000	0.50	0.00- 20.00	152.62	BA
Average of Peak Amounts =					0.50000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5325724	0.05000	0.049			

QC Flag Legend

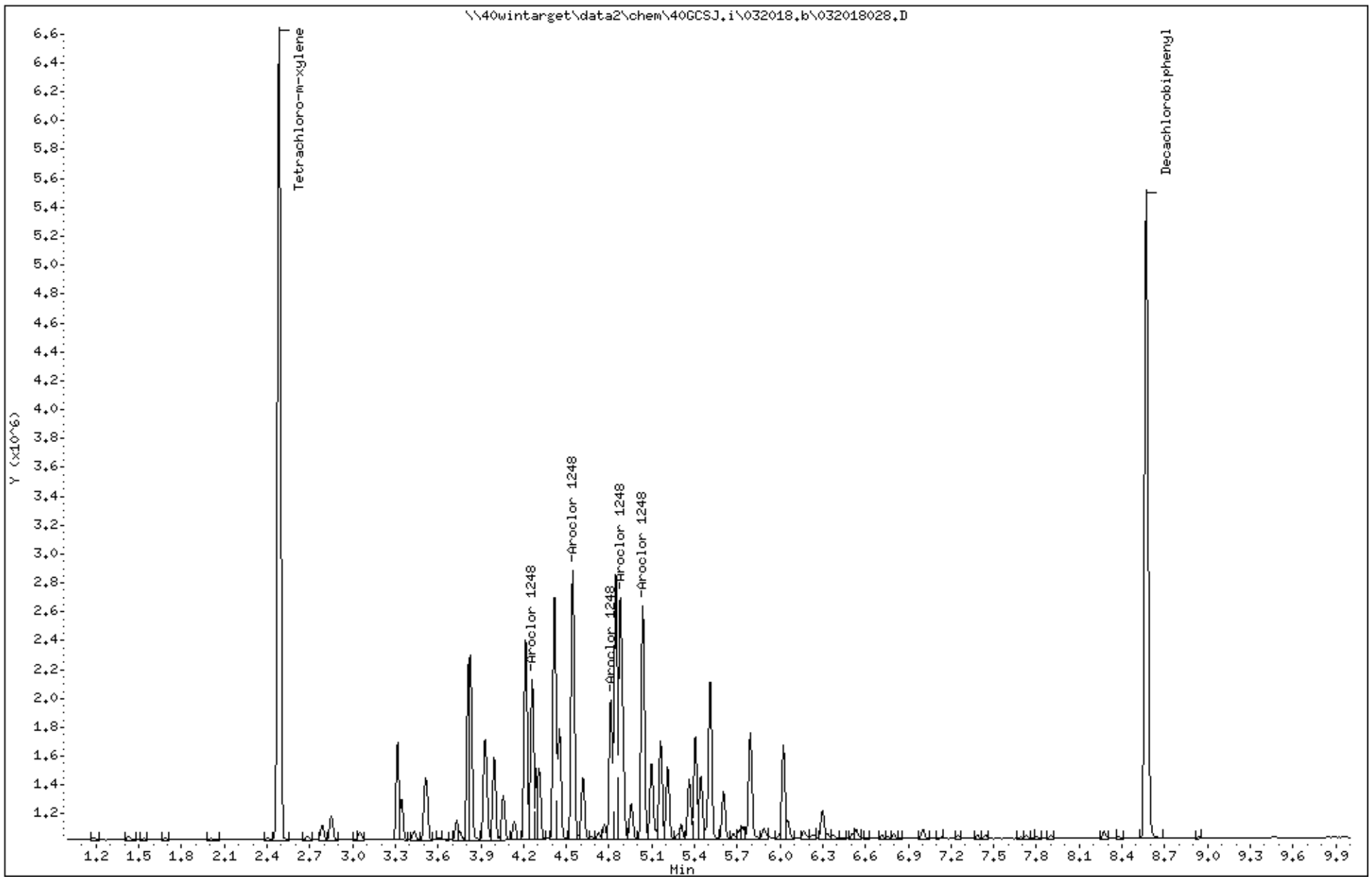
M - Compound response manually integrated.

Review Codes Legend

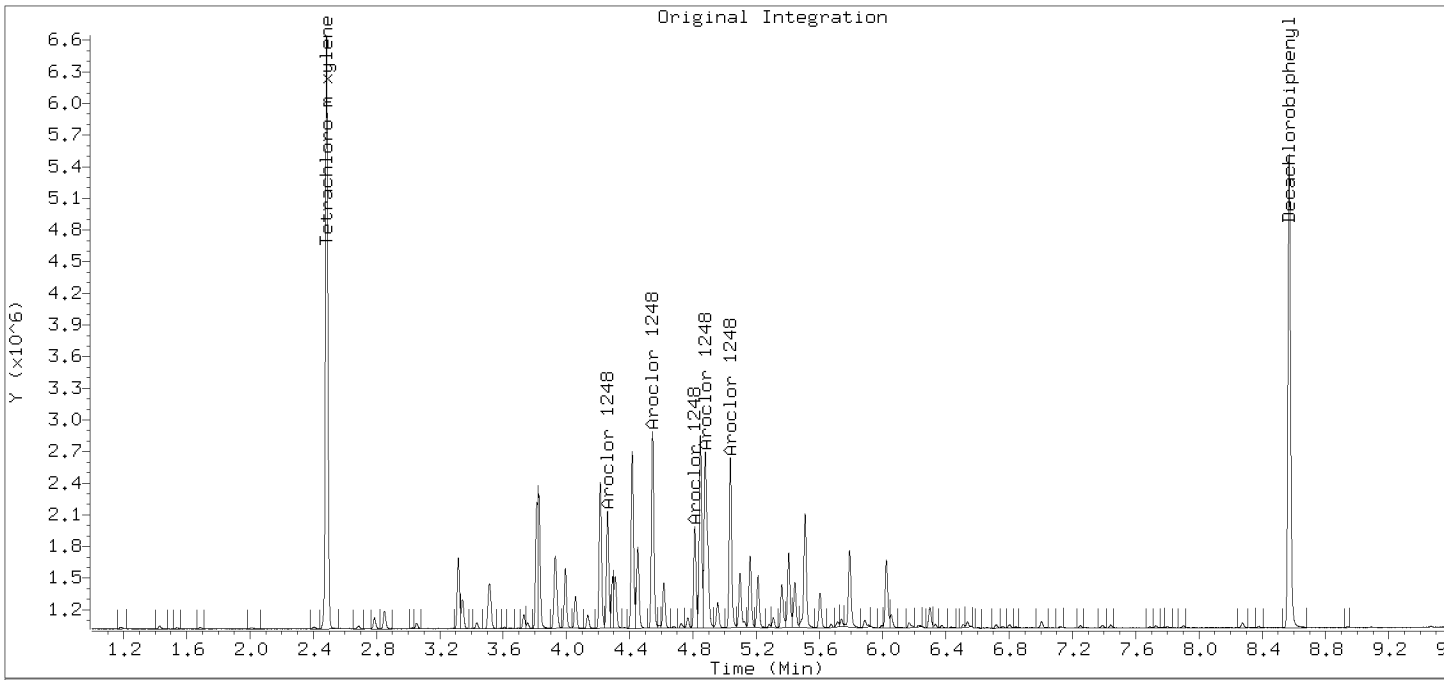
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

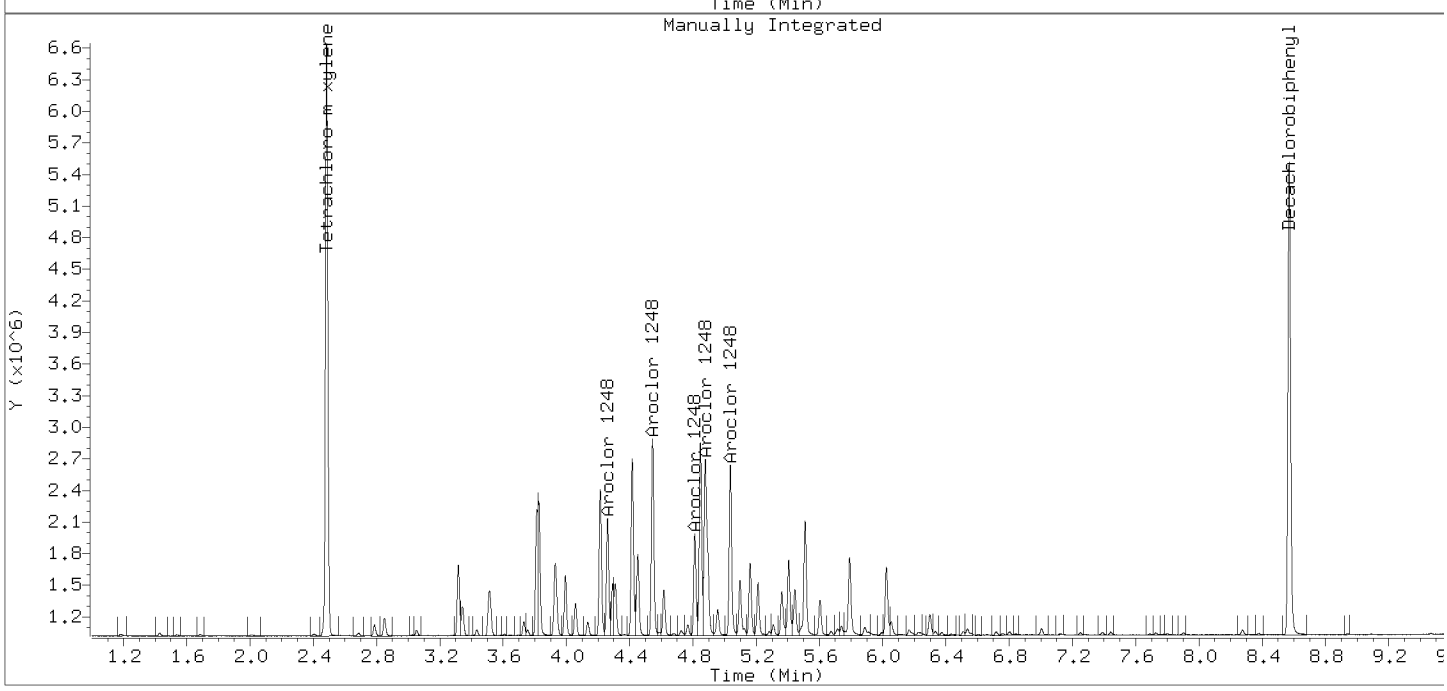
Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b\032018028.D
Date : 20-MAR-2018 19:39
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\032018.b/032018028.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 20-MAR-2018 19:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1168937	1185176	BA
Aroclor 1248	1168937	1185176	BA
Aroclor 1248	1168937	1185176	BA
Aroclor 1248	1168937	1185176	BA
Aroclor 1248	1168937	1185176	BA
Tetrachloro-m-xylene	5985102	5985102	
Decachlorobiphenyl	5325724	5325724	

SAMPLE NO.

BLANK

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40150340

Date Extracted: 03/14/2018 12:55

Lab Sample ID: 1658673

Date Analyzed: 03/15/2018 14:22

Lab File ID: 031518.B\031518006.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\031518.b\031518006.D
Lab Smp Id: 1658673 Client Smp ID: MB
Inj Date : 15-MAR-2018 14:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658673,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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
1.182	27880	19361	0.694	0.14		
1.427	14767	9959	0.674	0.07		
1.542	13050	8983	0.688	0.06		
2.484	9708187	9429855	0.971	49.34	$ 2 Tetrachloro-m-xylene	
2.789	18749	15747	0.840	0.09		
2.858	13392	11324	0.846	0.06		
7.124	28188	17491	0.621	0.14		
7.692	9362	11000	1.175	0.04		
7.729	49140	38028	0.774	0.24		
7.773	10247	11324	1.105	0.05		
7.800	38386	30793	0.802	0.19		
8.275	89593	74229	0.829	0.45		
8.378	29301	18212	0.622	0.14		
8.572	9601774	8244944	0.859	48.72	$ 12 Decachlorobiphenyl	
8.938	18063	14304	0.792	0.09		
9.466	23866	15180	0.636	0.12		
9.961	13478	13665	1.014	0.06		
	19707424	17984399		100.000		

Total unknown % area = 1.9

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518006.D
Lab Smp Id: 1658673 Client Smp ID: MB
Inj Date : 15-MAR-2018 14:22
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658673,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	9708187	0.07874	39			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

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).

---

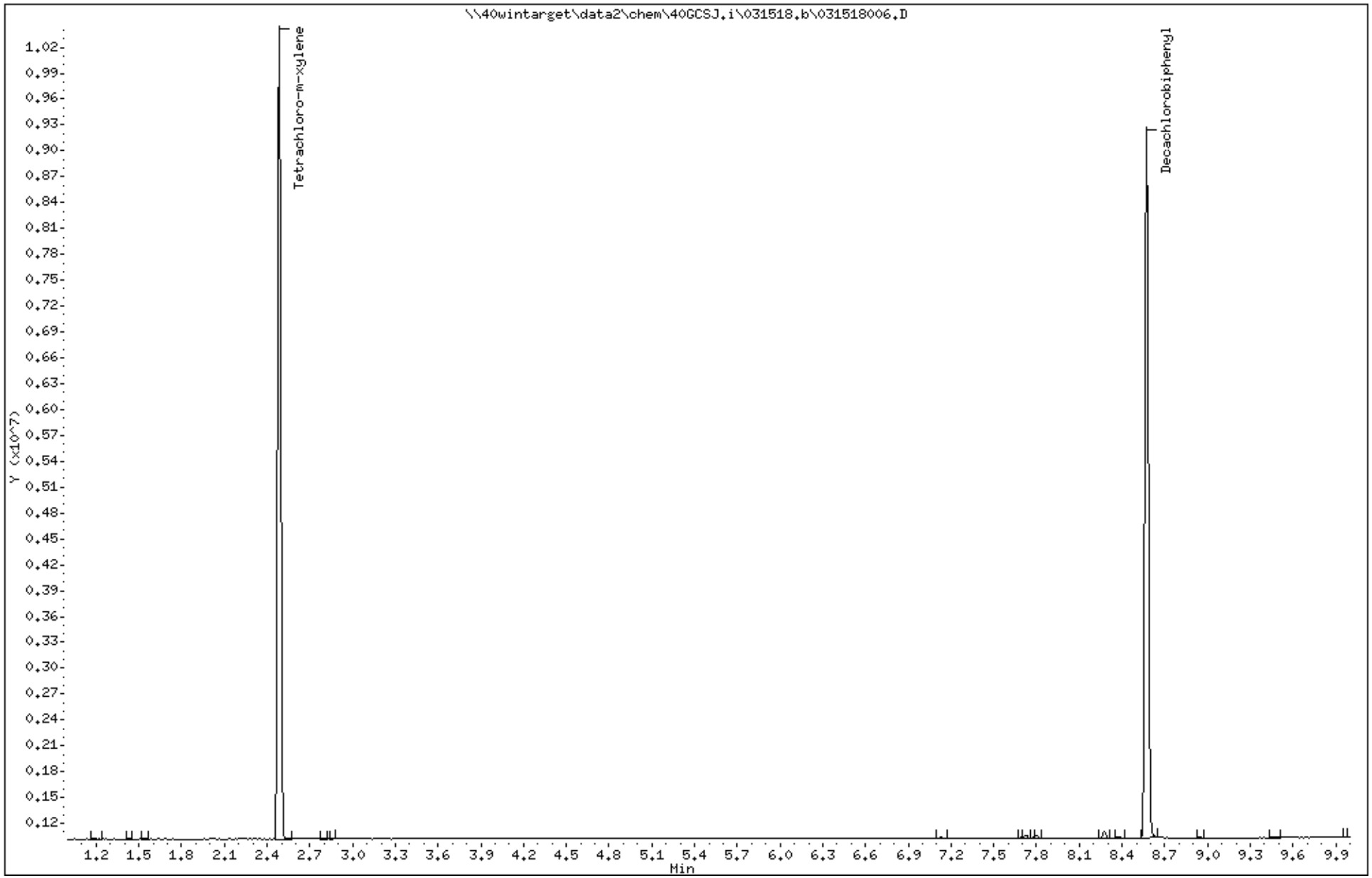
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.572	8.571	0.001	9601774	0.08764		44		

Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518006.D
Date : 15-MAR-2018 14:22
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1658673,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 14:22 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1658673

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	9708187	9708187	
Decachlorobiphenyl	9601774	9601774	

SAMPLE NO.

LCS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received:

Matrix: Tissue SDG No.: 40150340

Date Extracted: 03/14/2018 12:55

Lab Sample ID: 1658674

Date Analyzed: 03/15/2018 14:38

Lab File ID: 031518.B\031518007.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)	226	
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\031518.b\031518007.D
Lab Smp Id: 1658674 Client Smp ID: MBLCS
Inj Date : 15-MAR-2018 14:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658674,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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
1.181	14487	11857	0.818	0.03		
1.535	14012	11538	0.823	0.03		
1.805	17945	13472	0.751	0.04		
2.197	16899	11155	0.660	0.03		
2.404	112106	88915	0.793	0.25		
2.484	10403279	10118051	0.973	23.98	$ 2 Tetrachloro-m-xylene	
2.687	167793	138529	0.826	0.38		
2.789	206345	193636	0.938	0.46		
2.850	895915	835313	0.932	2.03		
3.054	121152	107663	0.889	0.27		
3.278	25360	20206	0.797	0.05		
3.317	1159019	1085597	0.937	2.62	3 Aroclor 1242	BA
3.344	649211	612006	0.943	1.47		
3.435	184044	170570	0.927	0.41		
3.514	1136320	822856	0.724	2.57	3 Aroclor 1242	BA
3.647	19830	13587	0.685	0.04		
3.697	34724	32940	0.949	0.07		
3.731	296584	295462	0.996	0.67		
3.756	189049	187826	0.994	0.42		
3.826	3225039	1886401	0.585	7.30	3 Aroclor 1242	BA
3.930	1383487	1142028	0.825	3.13	3 Aroclor 1242	BA
3.994	906337	878214	0.969	2.05	3 Aroclor 1242	BA
4.058	258537	236898	0.916	0.58		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.136	102423	93730	0.915	0.23	
4.214	766799	731199	0.954	1.73	
4.260	722502	690016	0.955	1.63	
4.293	296303	305469	1.031	0.67	
4.310	362599	336633	0.928	0.82	
4.371	25139	17435	0.694	0.05	
4.417	1006565	956573	0.950	2.28	
4.452	763330	559604	0.733	1.72	
4.546	1262558	1163763	0.922	2.86	
4.588	17521	17724	1.012	0.03	
4.617	292638	279455	0.955	0.66	
4.676	21423	16964	0.792	0.04	
4.727	62045	54395	0.877	0.14	
4.768	69137	65032	0.941	0.15	
4.812	580231	560876	0.967	1.31	
4.849	1035423	998688	0.965	2.34	
4.879	1295858	1008515	0.778	2.93	
4.957	141469	115362	0.815	0.32	
5.038	1071545	1014426	0.947	2.42	
5.099	224395	168668	0.752	0.50	
5.162	257653	229305	0.890	0.58	
5.212	183809	168433	0.916	0.41	
5.284	15614	14431	0.924	0.03	
5.309	44262	36969	0.835	0.10	
5.363	166829	142074	0.852	0.37	
5.406	272094	233536	0.858	0.61	
5.446	168430	147470	0.876	0.38	
5.510	441564	341066	0.772	1.00	
5.605	134537	119333	0.887	0.30	
5.673	16552	10942	0.661	0.03	
5.717	25664	22078	0.860	0.05	
5.741	34654	28620	0.826	0.07	
5.792	277229	235428	0.849	0.62	
5.891	30633	26102	0.852	0.06	
6.023	269152	204518	0.760	0.60	
6.168	13450	12417	0.923	0.03	
6.229	10433	7340	0.704	0.02	
6.299	55501	48105	0.867	0.12	
6.335	10794	8761	0.812	0.02	
6.508	11051	10420	0.943	0.02	
6.536	23147	18593	0.803	0.05	
6.719	12372	10713	0.866	0.02	
6.800	15445	12521	0.811	0.03	
7.007	15838	14529	0.917	0.03	
7.123	23104	16032	0.694	0.05	
7.253	11503	8536	0.742	0.02	
7.387	12867	9193	0.714	0.02	
7.689	17450	13805	0.791	0.03	
7.729	52679	41616	0.790	0.11	
7.776	11536	10335	0.896	0.02	
7.801	42520	32832	0.772	0.09	
8.275	86259	73503	0.852	0.19	
8.373	18170	12336	0.679	0.04	
8.572	9756961	8516906	0.873	22.11	$ 12 Decachlorobiphenyl
8.941	15472	9335	0.603	0.03	
9.964	15141	11349	0.750	0.03	
	44127745	38928729		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518007.D
Lab Smp Id: 1658674 Client Smp ID: MBLCS
Inj Date : 15-MAR-2018 14:38
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658674,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 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	10403279	0.08438	42			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1159018	0.45753	230	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1136319	0.45091	220	0.00- 20.00	98.04	BA
3.826	3.827	-0.001	3225038	0.45318	230	0.00- 20.00	278.26	BA
3.929	3.929	0.000	1383486	0.45486	230	0.00- 20.00	119.37	BA
3.994	3.995	-0.001	906336	0.44260	220	0.00- 20.00	78.20	BA
Average of Peak Concentrations =					220			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.571	8.571	0.000	9756961	0.08906	44

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518007.D

Date : 15-MAR-2018 14:38

Client ID: MBLCS

Instrument: 40GCSJ.i

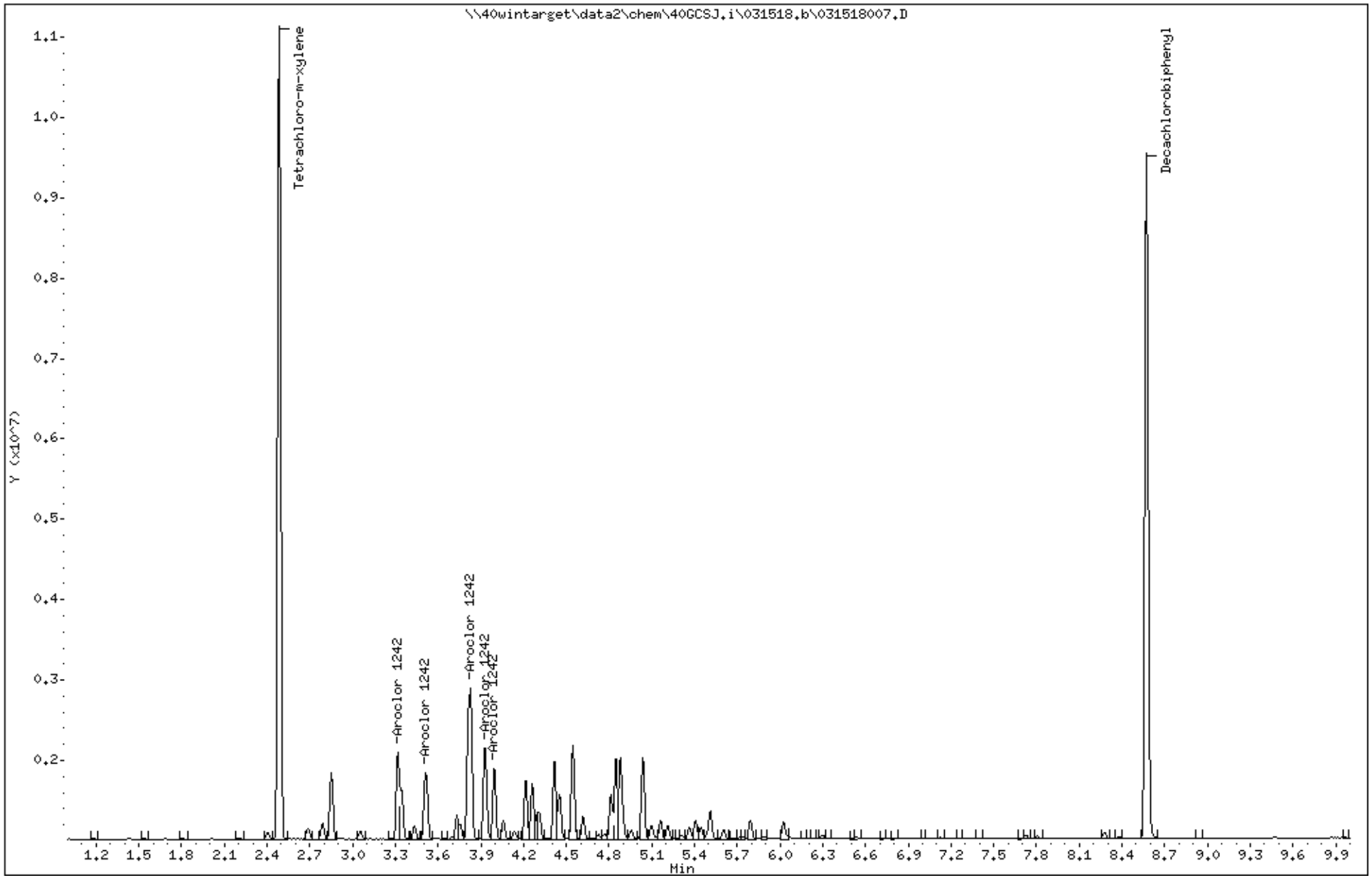
Sample Info: 1658674,

Volume Injected (uL): 1.0

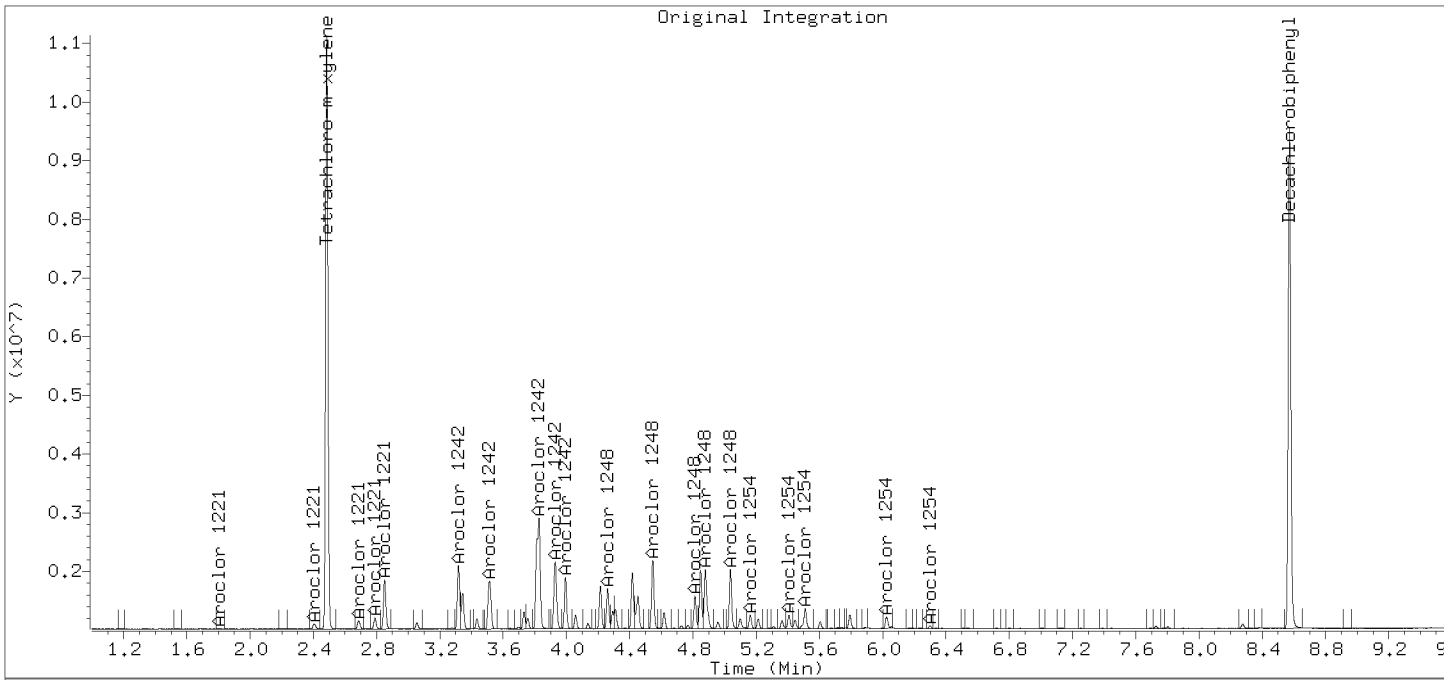
Operator: BLM

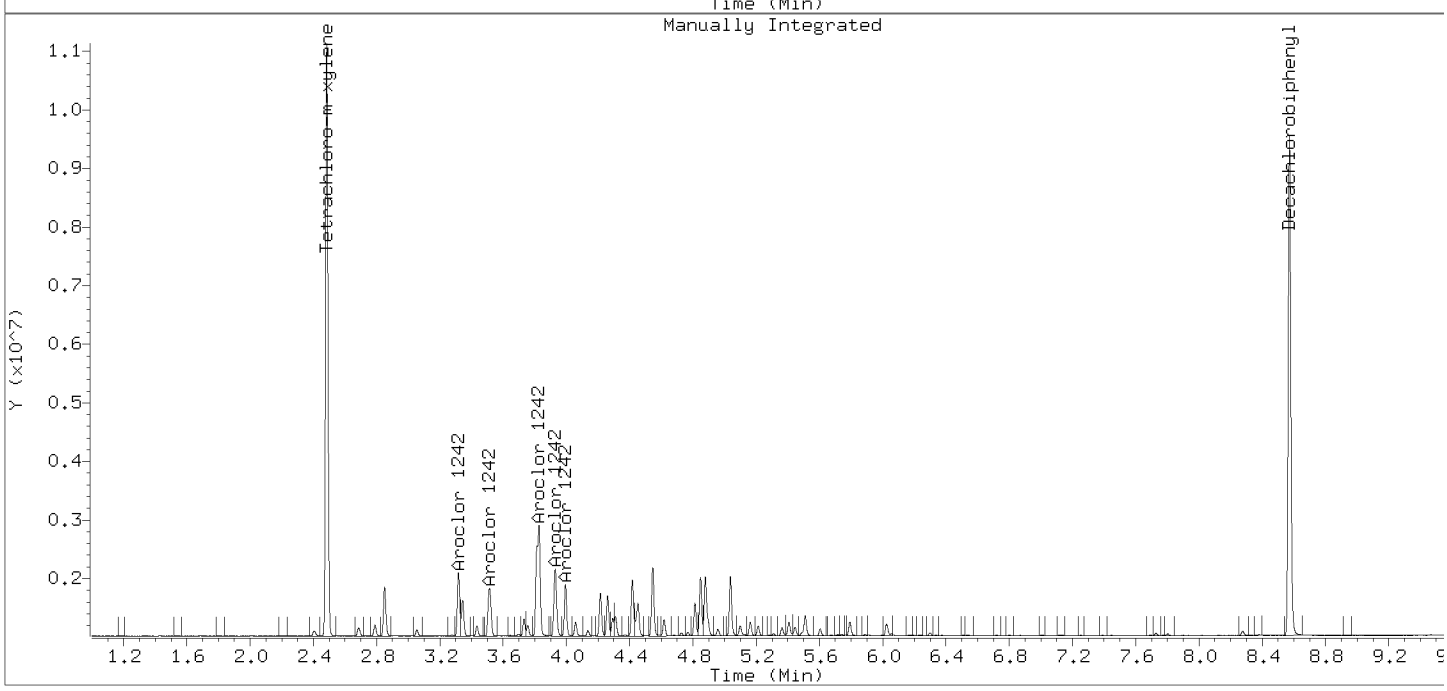
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 14:38 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1658674





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1154462	0	
Aroclor 1016	1154462	0	
Aroclor 1016	1154462	0	
Aroclor 1016	1154462	0	
Aroclor 1016	1154462	0	
Aroclor 1221	17945	0	
Aroclor 1221	17945	0	
Aroclor 1221	17945	0	
Aroclor 1221	17945	0	
Aroclor 1221	17945	0	
Aroclor 1232	882918	0	
Aroclor 1232	882918	0	
Aroclor 1232	882918	0	
Aroclor 1232	882918	0	

Aroclor 1232	882918	0	
Aroclor 1242	1154462	1159018	BA
Aroclor 1242	1154462	1159018	BA
Aroclor 1242	1154462	1159018	BA
Aroclor 1242	1154462	1159018	BA
Aroclor 1242	1154462	1159018	BA
Aroclor 1248	714005	0	
Aroclor 1248	714005	0	
Aroclor 1248	714005	0	
Aroclor 1248	714005	0	
Aroclor 1248	714005	0	
Aroclor 1254	251991	0	
Aroclor 1254	251991	0	
Aroclor 1254	251991	0	
Aroclor 1254	251991	0	
Aroclor 1254	251991	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10403279	10403279	
Decachlorobiphenyl	9756961	9756961	

==========

SAMPLE NO.

MS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 05/20/2017 09:45
Matrix: Tissue SDG No.: 40150340
Date Extracted: 03/14/2018 12:55
Lab Sample ID: 1658675
Date Analyzed: 03/15/2018 14:54
Lab File ID: 031518.B\031518008.D
Initial wt/vol: 9.9999 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)	281	
12672-29-6	PCB-1248 (Aroclor 1248)	220	
11097-69-1	PCB-1254 (Aroclor 1254)	87.3	
11096-82-5	PCB-1260 (Aroclor 1260)	96.7	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518008.D
Lab Smp Id: 1658675 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 14:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658675,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.029	14319	11396	0.796	0.01		
1.158	11108	10398	0.936	0.01		
1.430	15437	12310	0.797	0.01		
1.538	18457	11478	0.622	0.02		
1.804	24534	21331	0.869	0.02		
1.950	16945	13239	0.781	0.01		
2.293	18745	19191	1.024	0.02		
2.319	9414	10756	1.143	0.01		
2.410	261548	202811	0.775	0.30		
2.485	11829804	11713561	0.990	14.34	$ 2 Tetrachloro-m-xylene	
2.688	195067	162728	0.834	0.22		
2.789	246237	233412	0.948	0.28		
2.851	1113481	1005092	0.903	1.28		
2.974	168558	102564	0.608	0.19		
3.020	66353	66404	1.001	0.07		
3.055	227229	213988	0.942	0.26		
3.276	26780	20795	0.777	0.03		
3.318	1403192	1301236	0.927	1.62	3 Aroclor 1242	BA
3.344	817810	777795	0.951	0.94		
3.402	16358	16902	1.033	0.01		
3.434	321176	288664	0.899	0.37		
3.515	1440644	1032266	0.717	1.66	3 Aroclor 1242	BA
3.648	31362	22697	0.724	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.696	41362	40740	0.985	0.04	
3.731	403236	392079	0.972	0.46	
3.756	247834	241636	0.975	0.28	
3.826	4050985	2366729	0.584	4.68	3 Aroclor 1242
3.930	1698316	1376649	0.811	1.96	3 Aroclor 1242
3.994	1132193	1092163	0.965	1.30	3 Aroclor 1242
4.058	337346	306302	0.908	0.38	
4.137	136148	120682	0.886	0.15	
4.215	1266964	1171866	0.925	1.46	
4.261	1221863	1154986	0.945	1.41	6 Aroclor 1248
4.293	633823	614026	0.969	0.73	
4.310	456745	454740	0.996	0.52	
4.348	31665	29185	0.922	0.03	
4.373	23533	23282	0.989	0.02	
4.418	1374030	1296072	0.943	1.58	
4.453	1005843	775292	0.771	1.16	
4.500	44835	25162	0.561	0.05	
4.546	1748556	1603324	0.917	2.02	6 Aroclor 1248
4.589	40333	42550	1.055	0.04	
4.617	406273	354111	0.872	0.46	
4.680	60896	50047	0.822	0.07	
4.731	141504	90367	0.639	0.16	
4.768	124124	116558	0.939	0.14	
4.813	843748	812676	0.963	0.97	6 Aroclor 1248
4.848	1433899	1368409	0.954	1.65	
4.879	2124057	1436409	0.676	2.45	6 Aroclor 1248
4.957	338759	271302	0.801	0.39	
5.003	36038	34169	0.948	0.04	
5.038	1504873	1299534	0.864	1.73	6 Aroclor 1248
5.099	752405	566544	0.753	0.86	
5.162	1150323	1032782	0.898	1.32	7 Aroclor 1254
5.213	1190871	1073296	0.901	1.37	
5.255	73101	69489	0.951	0.08	
5.283	141333	122490	0.867	0.16	
5.314	560815	522908	0.932	0.64	
5.363	444900	397443	0.893	0.51	
5.407	614754	572506	0.931	0.71	7 Aroclor 1254
5.451	2749910	2648530	0.963	3.17	
5.510	1397785	1029789	0.737	1.61	7 Aroclor 1254
5.578	160644	130347	0.811	0.18	
5.603	303404	251165	0.828	0.35	
5.675	412058	382911	0.929	0.47	
5.710	261644	197397	0.754	0.30	
5.741	383808	267699	0.697	0.44	
5.791	1971420	1599962	0.812	2.27	
5.822	376654	342106	0.908	0.43	
5.899	345907	217099	0.628	0.39	
5.932	128325	108551	0.846	0.14	
5.965	38505	39329	1.021	0.04	
5.994	747223	705641	0.944	0.86	
6.026	760271	672166	0.884	0.87	7 Aroclor 1254
6.056	2812764	2528584	0.899	3.24	
6.169	261824	212140	0.810	0.30	
6.184	220460	213340	0.968	0.25	
6.244	381809	221604	0.580	0.44	
6.300	2476715	2034614	0.821	2.86	8 Aroclor 1260
6.333	201805	179857	0.891	0.23	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.374	63821	55122	0.864	0.07	
6.432	387705	288223	0.743	0.44	
6.488	57324	58996	1.029	0.06	
6.510	1526538	1369936	0.897	1.76	
6.535	393873	387842	0.985	0.45	
6.561	544916	478546	0.878	0.62	
6.604	146153	99981	0.684	0.16	
6.662	53472	46045	0.861	0.06	
6.718	251523	224878	0.894	0.29	
6.758	463264	396305	0.855	0.53	
6.803	347633	326824	0.940	0.40	
6.839	356956	317079	0.888	0.41	
6.886	12666	16710	1.319	0.01	
6.913	143635	149491	1.041	0.16	
6.943	496176	484216	0.976	0.57	
7.005	1379297	1260985	0.914	1.59	8 Aroclor 1260
7.035	135011	103034	0.763	0.15	
7.079	10662	13733	1.288	0.01	
7.122	34021	29827	0.877	0.03	
7.252	526445	443922	0.843	0.60	8 Aroclor 1260
7.281	162195	122693	0.756	0.18	
7.340	24462	19866	0.812	0.02	
7.390	753417	651578	0.865	0.87	
7.422	35523	63621	1.791	0.04	
7.444	702910	624325	0.888	0.81	8 Aroclor 1260
7.492	130698	104052	0.796	0.15	
7.528	49806	44054	0.885	0.05	
7.560	95990	69153	0.720	0.11	
7.630	38014	20179	0.531	0.04	
7.692	149172	134441	0.901	0.17	
7.727	552686	489168	0.885	0.63	
7.765	37339	37343	1.000	0.04	
7.807	332129	187156	0.564	0.38	
7.863	28012	24715	0.882	0.03	
7.901	522654	433103	0.829	0.60	8 Aroclor 1260
7.958	67626	42455	0.628	0.07	
8.049	28411	24608	0.866	0.03	
8.104	13433	11971	0.891	0.01	
8.193	37677	23110	0.613	0.04	
8.276	1138304	1002402	0.881	1.31	
8.376	50921	42272	0.830	0.05	
8.451	36794	19044	0.518	0.04	
8.505	10055	11187	1.113	0.01	
8.572	11031842	9987776	0.905	12.74	$ 12 Decachlorobiphenyl
8.703	74899	61694	0.824	0.08	
8.726	141232	125448	0.888	0.16	
8.838	18108	15749	0.870	0.02	
8.939	10464	9095	0.869	0.01	
8.992	27798	20902	0.752	0.03	
9.029	9884	11418	1.155	0.01	
9.057	32327	20537	0.635	0.03	
9.093	24630	16219	0.659	0.02	
9.171	65708	53890	0.820	0.07	
9.227	13274	8809	0.664	0.01	
9.286	12322	12224	0.992	0.01	
9.335	20891	17883	0.856	0.02	
9.407	10736	11463	1.068	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.468	42826	20753	0.485	0.04	
9.542	41975	21655	0.516	0.04	
9.599	12111	8945	0.739	0.01	
9.702	33663	29652	0.881	0.03	
9.737	57745	45693	0.791	0.06	
9.782	9488	8620	0.909	0.01	
9.985	11306	11371	1.006	0.01	
	86558326	75846337		100.000	

Total unknown % area = 42

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518008.D
Lab Smp Id: 1658675 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 14:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658675,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.000	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	11829804	0.09595	48			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1403192	0.55392	280	0.00- 20.00	100.00(M)	BA
3.515	3.513	0.002	1440643	0.57168	280	0.00- 20.00	102.67	BA
3.826	3.827	-0.001	4050984	0.56924	280	0.00- 20.00	288.70	BA
3.929	3.929	0.000	1698316	0.55837	280	0.00- 20.00	121.03	BA
3.994	3.995	-0.001	1132193	0.55290	280	0.00- 20.00	80.69	BA
Average of Peak Concentrations =					280			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1221862	0.52150	260	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1748556	0.42131	210	0.00- 20.00	143.11	BA
4.812	4.812	0.000	843747	0.41562	210	0.00- 20.00	69.05	BA
4.878	4.879	-0.001	2124056	0.42165	210	0.00- 20.00	173.84	BA
5.037	5.038	-0.001	1504872	0.41935	210	0.00- 20.00	123.16	BA
Average of Peak Concentrations =					220			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	1150323	0.21973	110	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	614753	0.14293	71	0.00- 20.00	53.44	BA
5.510	5.510	0.000	1397785	0.17999	90	0.00- 20.00	121.51	BA
6.025	6.027	-0.002	760271	0.15612	78	0.00- 20.00	66.09	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					87			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	2476715	0.27946	140	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	1379296	0.13773	69	0.00- 20.00	55.69	CO
7.252	7.251	0.001	526444	0.11014	55	0.00- 20.00	21.26	CO
7.443	7.443	0.000	702909	0.24113	120	0.00- 20.00	28.38	CO
7.901	7.901	0.000	522654	0.19807	99	0.00- 20.00	21.10	CO
Average of Peak Concentrations =					97			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	11031842	0.10069	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\031518.b\031518008.D

Date : 15-MAR-2018 14:54

Client ID: AT1-170519-01-STB-1

Instrument: 40GCSJ.i

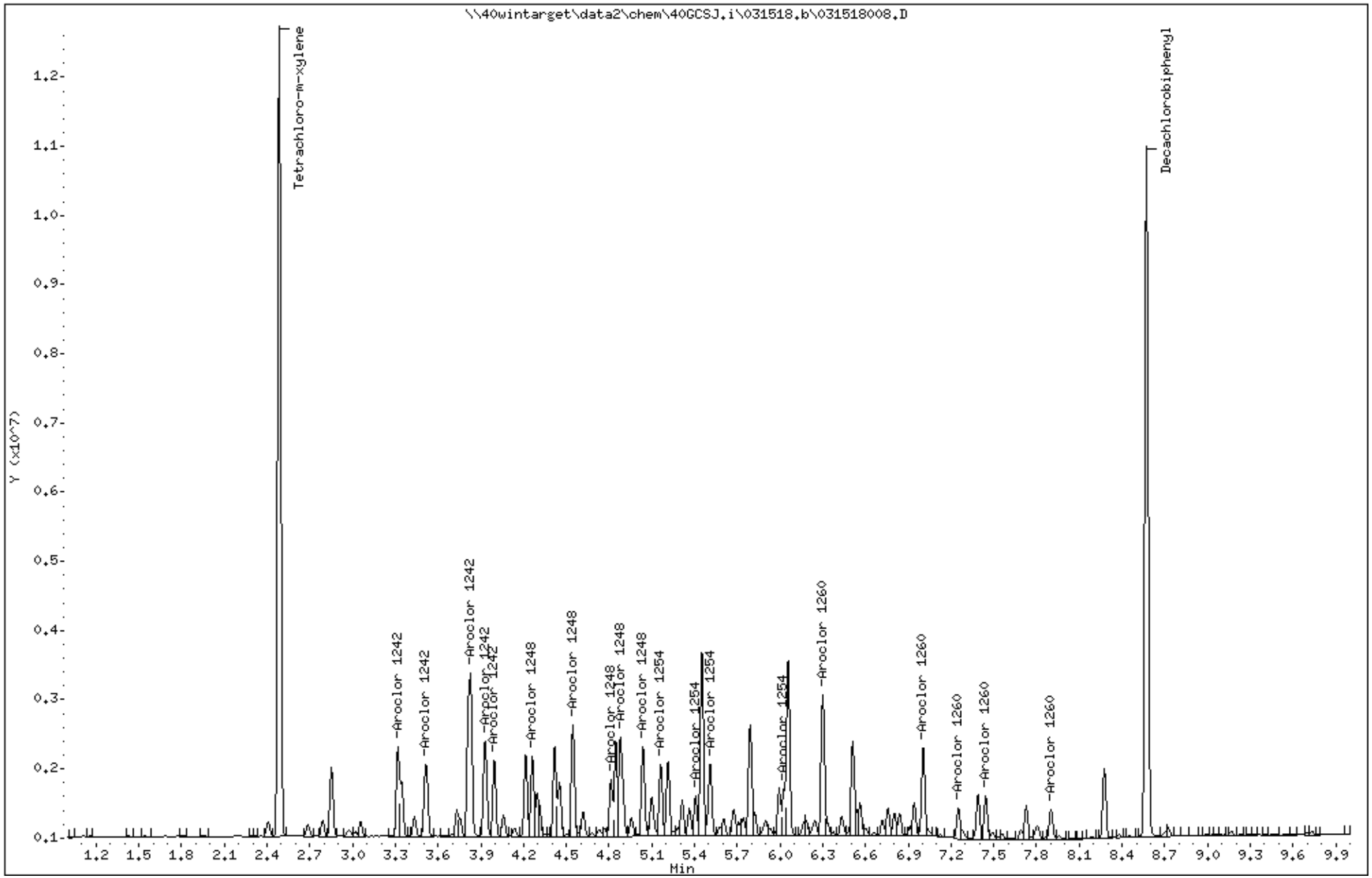
Sample Info: 1658675,

Volume Injected (uL): 1.0

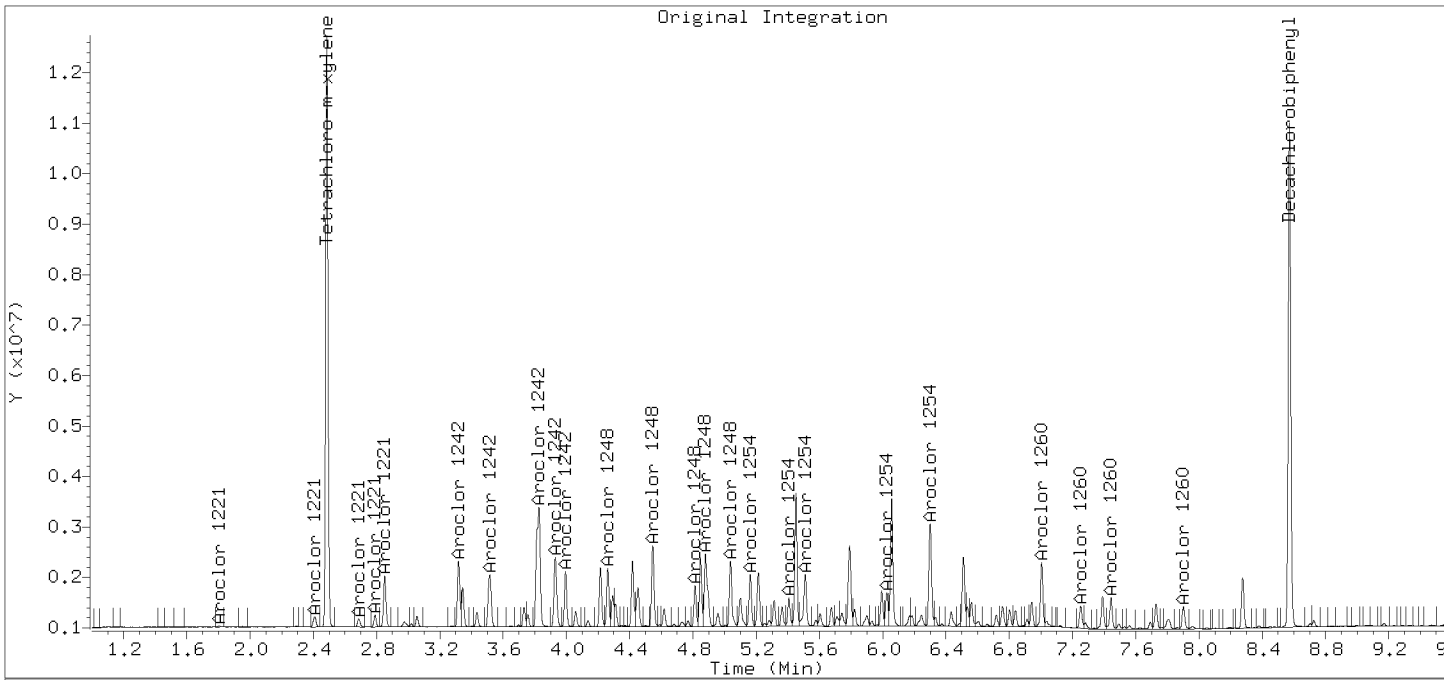
Operator: BLM

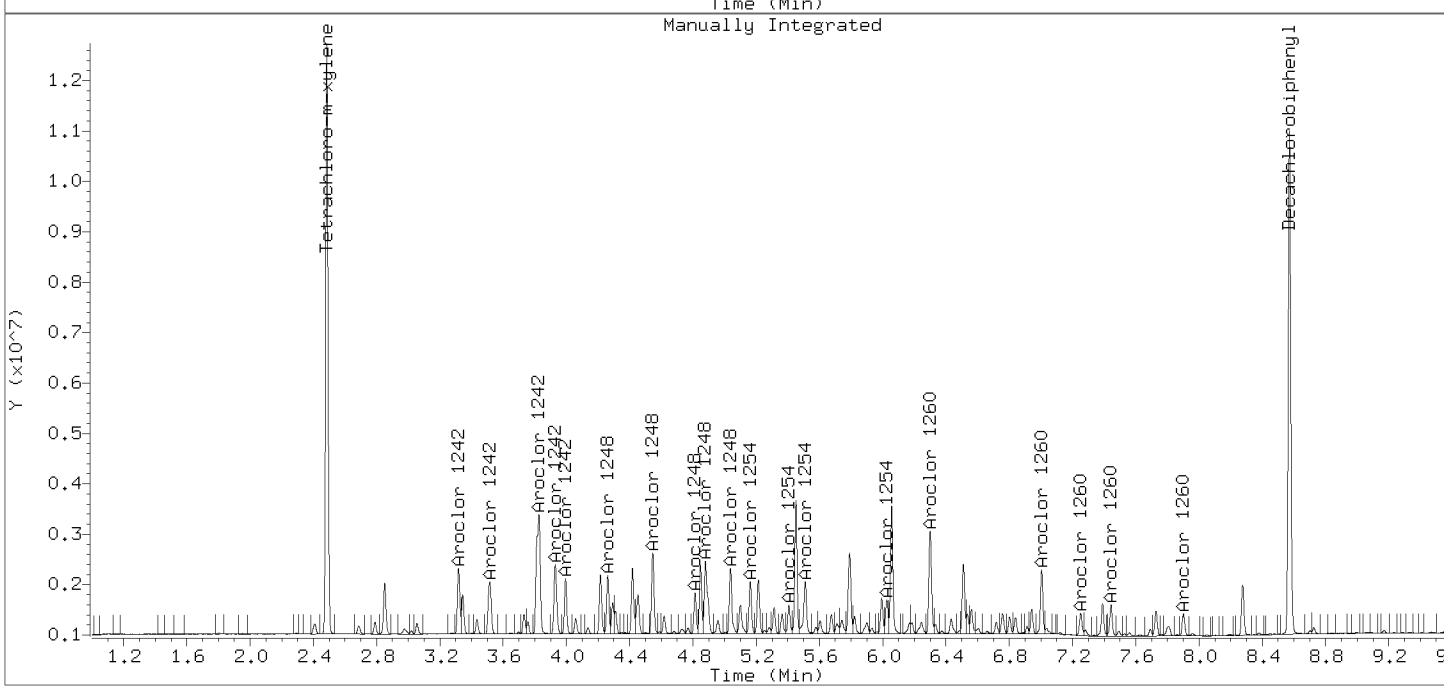
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 14:54 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1658675





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1398851	0	
Aroclor 1016	1398851	0	
Aroclor 1016	1398851	0	
Aroclor 1016	1398851	0	
Aroclor 1016	1398851	0	
Aroclor 1221	24533	0	
Aroclor 1221	24533	0	
Aroclor 1221	24533	0	
Aroclor 1221	24533	0	
Aroclor 1221	24533	0	
Aroclor 1232	1100542	0	
Aroclor 1232	1100542	0	
Aroclor 1232	1100542	0	
Aroclor 1232	1100542	0	

Aroclor 1232	1100542	0	
Aroclor 1242	1398851	1403192	BA
Aroclor 1242	1398851	1403192	BA
Aroclor 1242	1398851	1403192	BA
Aroclor 1242	1398851	1403192	BA
Aroclor 1242	1398851	1403192	BA
Aroclor 1248	1213821	1221862	BA
Aroclor 1248	1213821	1221862	BA
Aroclor 1248	1213821	1221862	BA
Aroclor 1248	1213821	1221862	BA
Aroclor 1248	1213821	1221862	BA
Aroclor 1254	1131126	1150323	BA
Aroclor 1254	1131126	1150323	BA
Aroclor 1254	1131126	1150323	BA
Aroclor 1254	1131126	1150323	BA
Aroclor 1254	1131126	1150323	BA
Aroclor 1260	2459307	2476715	CO
Aroclor 1260	2459307	2476715	CO
Aroclor 1260	2459307	2476715	CO
Aroclor 1260	2459307	2476715	CO
Aroclor 1260	2459307	2476715	CO
Tetrachloro-m-xylene	11829804	11829804	
Decachlorobiphenyl	11031842	11031842	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 05/20/2017 09:45

Matrix: Tissue SDG No.: 40150340

Date Extracted: 03/14/2018 12:55

Lab Sample ID: 1658676

Date Analyzed: 03/15/2018 18:36

Lab File ID: 031518.B\031518022.D

Initial wt/vol: 9.9736 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)	58.6	
11097-69-1	PCB-1254 (Aroclor 1254)	61.4	
11096-82-5	PCB-1260 (Aroclor 1260)	105	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518022.D
Lab Smp Id: 1658676 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 18:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658676,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22 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	9.974	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.072	16214	14333	0.884	0.02		
1.106	12057	10613	0.880	0.01		
1.161	20149	13885	0.689	0.03		
1.428	18004	10384	0.577	0.02		
1.772	12204	13154	1.078	0.01		
1.806	12669	8980	0.709	0.02		
1.949	19978	13606	0.681	0.03		
2.199	11086	10733	0.968	0.01		
2.291	33230	24006	0.722	0.05		
2.409	152826	128704	0.842	0.24		
2.484	11540133	11233378	0.973	18.96	$ 2 Tetrachloro-m-xylene	
2.788	32711	27066	0.827	0.05		
2.834	21829	32149	1.473	0.03		
2.852	85426	48567	0.569	0.13		
2.916	13716	10996	0.802	0.02		
2.973	172727	107051	0.620	0.27		
3.019	70572	71241	1.009	0.11		
3.054	112063	103149	0.920	0.17		
3.318	86144	82535	0.958	0.13		
3.345	90536	77385	0.855	0.14		
3.402	16449	14875	0.904	0.02		
3.432	131482	115478	0.878	0.20		
3.519	156250	126364	0.809	0.24		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.644	15958	11883	0.745	0.02	
3.732	81257	79944	0.984	0.12	
3.755	37917	37126	0.979	0.06	
3.817	181930	209895	1.154	0.28	
3.937	117901	92404	0.784	0.18	
3.993	88846	77439	0.872	0.14	
4.056	69306	48928	0.706	0.10	
4.135	21888	19817	0.905	0.03	
4.215	469455	440593	0.939	0.74	
4.261	470176	453996	0.966	0.74	6 Aroclor 1248
4.292	393070	313150	0.797	0.62	
4.346	33416	24333	0.728	0.05	
4.417	245970	225218	0.916	0.39	
4.452	160158	141742	0.885	0.25	
4.504	36781	22710	0.617	0.05	
4.544	350896	324419	0.925	0.55	6 Aroclor 1248
4.589	29504	27263	0.924	0.04	
4.617	56769	49941	0.880	0.09	
4.682	39709	35733	0.900	0.06	
4.737	79035	64386	0.815	0.12	
4.767	51362	49812	0.970	0.08	
4.812	199957	194097	0.971	0.31	6 Aroclor 1248
4.847	292549	279100	0.954	0.46	
4.893	736702	405910	0.551	1.16	6 Aroclor 1248
4.956	197072	169880	0.862	0.31	
5.004	31632	32047	1.013	0.05	
5.037	195509	186431	0.954	0.31	6 Aroclor 1248
5.058	99945	99903	1.000	0.15	
5.100	545100	401088	0.736	0.86	
5.162	948621	859907	0.906	1.50	7 Aroclor 1254
5.212	1060816	953719	0.899	1.68	
5.253	78845	78330	0.993	0.12	
5.282	134961	119598	0.886	0.21	
5.312	539589	516161	0.957	0.85	
5.362	289907	259478	0.895	0.45	
5.406	349736	324052	0.927	0.55	7 Aroclor 1254
5.450	2853523	2805073	0.983	4.52	
5.478	69053	100135	1.450	0.10	
5.508	894279	724666	0.810	1.41	7 Aroclor 1254
5.576	170738	133557	0.782	0.27	
5.603	187086	146188	0.781	0.29	
5.675	416280	387328	0.930	0.66	
5.709	250998	198413	0.790	0.39	
5.742	361609	253660	0.701	0.57	
5.789	1821049	1531382	0.841	2.88	
5.822	427729	365763	0.855	0.67	
5.899	317362	224431	0.707	0.50	
5.931	130966	113663	0.868	0.20	
5.963	41471	42191	1.017	0.06	
5.993	783585	733249	0.936	1.24	
6.026	545336	494225	0.906	0.86	7 Aroclor 1254
6.055	2962222	2659812	0.898	4.69	
6.169	247202	213529	0.864	0.39	
6.184	248643	216067	0.869	0.39	
6.243	405227	236843	0.584	0.64	
6.299	2611046	2182038	0.836	4.14	8 Aroclor 1260
6.332	199125	188709	0.948	0.31	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.372	60131	51976	0.864	0.09	
6.403	14588	18105	1.241	0.02	
6.431	397704	291407	0.733	0.63	
6.487	54946	61500	1.119	0.08	
6.509	1610882	1461275	0.907	2.55	
6.534	410223	409716	0.999	0.65	
6.560	571121	494669	0.866	0.90	
6.604	170014	115852	0.681	0.26	
6.659	69063	48985	0.709	0.10	
6.718	265630	231809	0.873	0.42	
6.757	504400	433509	0.859	0.80	
6.802	377904	350371	0.927	0.59	
6.838	380491	342957	0.901	0.60	
6.887	21091	23299	1.105	0.03	
6.913	159793	159772	1.000	0.25	
6.941	586308	579409	0.988	0.92	
7.005	1521238	1372242	0.902	2.41	8 Aroclor 1260
7.034	159609	118085	0.740	0.25	
7.074	21469	21555	1.004	0.03	
7.121	31837	28095	0.882	0.05	
7.251	578577	490990	0.849	0.91	8 Aroclor 1260
7.280	174523	132590	0.760	0.27	
7.339	23935	20558	0.859	0.03	
7.389	813048	697865	0.858	1.28	
7.419	39494	68891	1.744	0.06	
7.441	764922	685725	0.896	1.21	8 Aroclor 1260
7.491	148975	113586	0.762	0.23	
7.526	57700	52204	0.905	0.09	
7.558	118864	84134	0.708	0.18	
7.626	45535	22471	0.493	0.07	
7.690	165053	145245	0.880	0.26	
7.727	587090	531520	0.905	0.93	
7.763	50422	41348	0.820	0.07	
7.803	361481	212060	0.587	0.57	
7.861	40552	31631	0.780	0.06	
7.899	586004	516289	0.881	0.92	8 Aroclor 1260
7.955	89212	49417	0.554	0.14	
8.046	31717	27954	0.881	0.05	
8.100	14073	12317	0.875	0.02	
8.193	36307	23428	0.645	0.05	
8.275	1223153	1070291	0.875	1.94	
8.376	58401	45041	0.771	0.09	
8.450	46941	21390	0.456	0.07	
8.505	11829	12230	1.034	0.01	
8.570	11373825	9838990	0.865	18.04	$ 12 Decachlorobiphenyl
8.701	87047	73239	0.841	0.13	
8.726	176788	138797	0.785	0.28	
8.838	24786	16947	0.684	0.03	
8.942	19571	12128	0.620	0.03	
8.989	28264	23337	0.826	0.04	
9.054	13372	15850	1.185	0.02	
9.168	65141	58201	0.893	0.10	
9.283	25515	18479	0.724	0.04	
9.332	26792	19748	0.737	0.04	
9.403	13483	11672	0.866	0.02	
9.464	45387	23081	0.509	0.07	
9.542	41560	23364	0.562	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.596	9404	8676	0.923	0.01	
9.698	33370	31695	0.950	0.05	
9.734	63404	50346	0.794	0.10	
9.856	11487	7885	0.686	0.01	
9.981	14648	15362	1.049	0.02	
	63045322	55991547		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518022.D
Lab Smp Id: 1658676 Client Smp ID: AT1-170519-01-STB-1
Inj Date : 15-MAR-2018 18:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1658676,
Misc Info : 17527,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\031518.b\pcba030618.m
Meth Date : 02-Apr-2018 12:14 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22 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	9.974	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11540133	0.09360	47			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	470175	0.20067	100	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	350896	0.08455	42	0.00- 20.00	74.63	BA
4.812	4.812	0.000	199957	0.09850	49	0.00- 20.00	42.53	BA
4.893	4.879	0.014	736702	0.14625	73	0.00- 20.00	156.69	BA
5.036	5.038	-0.002	195509	0.05448	27	0.00- 20.00	41.58	BA
Average of Peak Concentrations =					58			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	948621	0.18120	91	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	349736	0.08131	41	0.00- 20.00	36.87	BA
5.508	5.510	-0.002	894278	0.11515	58	0.00- 20.00	94.27	BA
6.025	6.027	-0.002	545335	0.11199	56	0.00- 20.00	57.49	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					61			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	2611046	0.29462	150	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	1521238	0.15191	76	0.00- 20.00	58.26	CO
7.250	7.251	-0.001	578576	0.12105	61	0.00- 20.00	22.16	CO
7.441	7.443	-0.002	764921	0.26240	130	0.00- 20.00	29.30	CO
7.899	7.901	-0.002	586004	0.22208	110	0.00- 20.00	22.44	CO
Average of Peak Concentrations =					100			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	11373825	0.10381	52			

QC Flag Legend

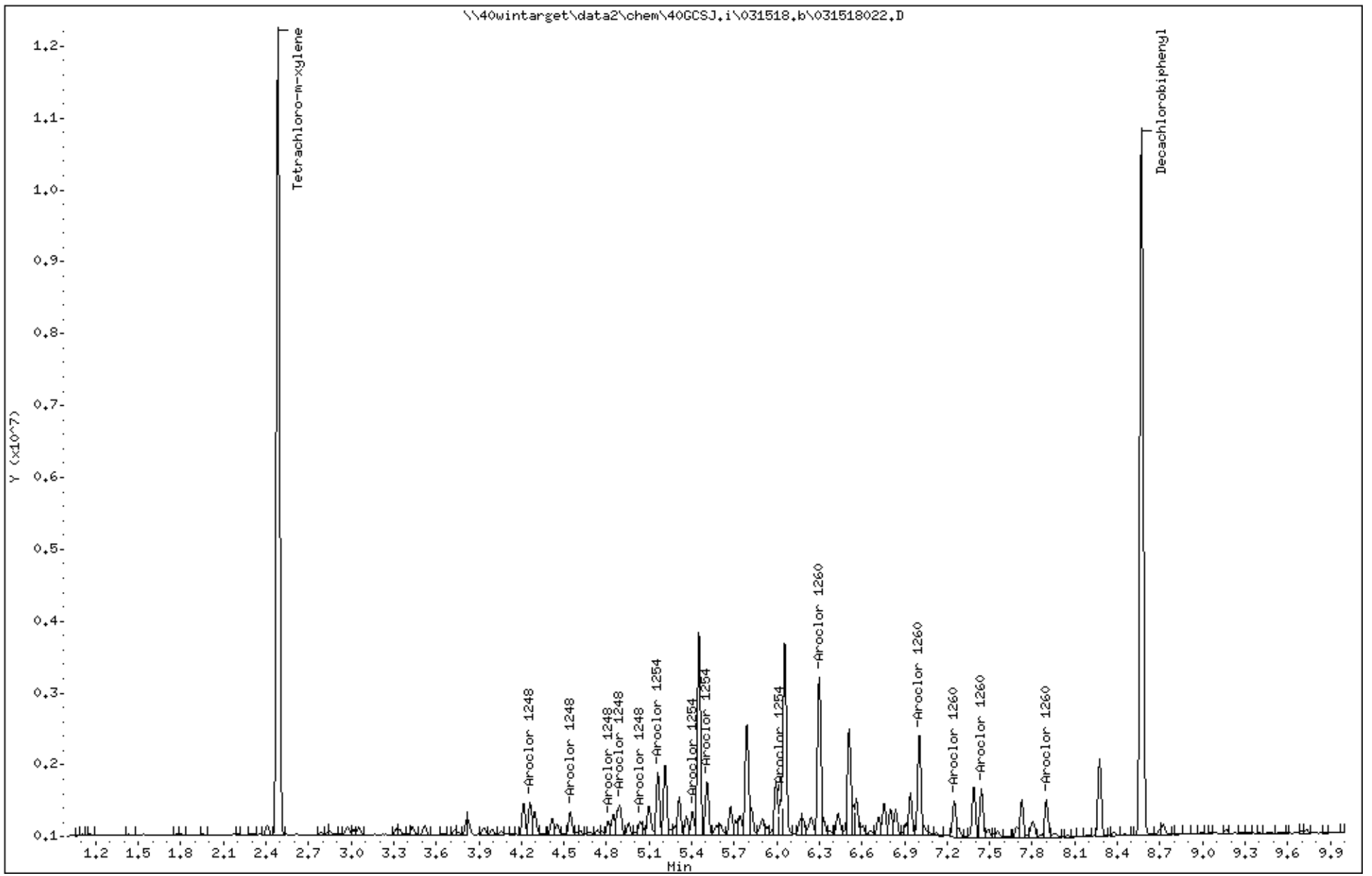
M - Compound response manually integrated.

Review Codes Legend

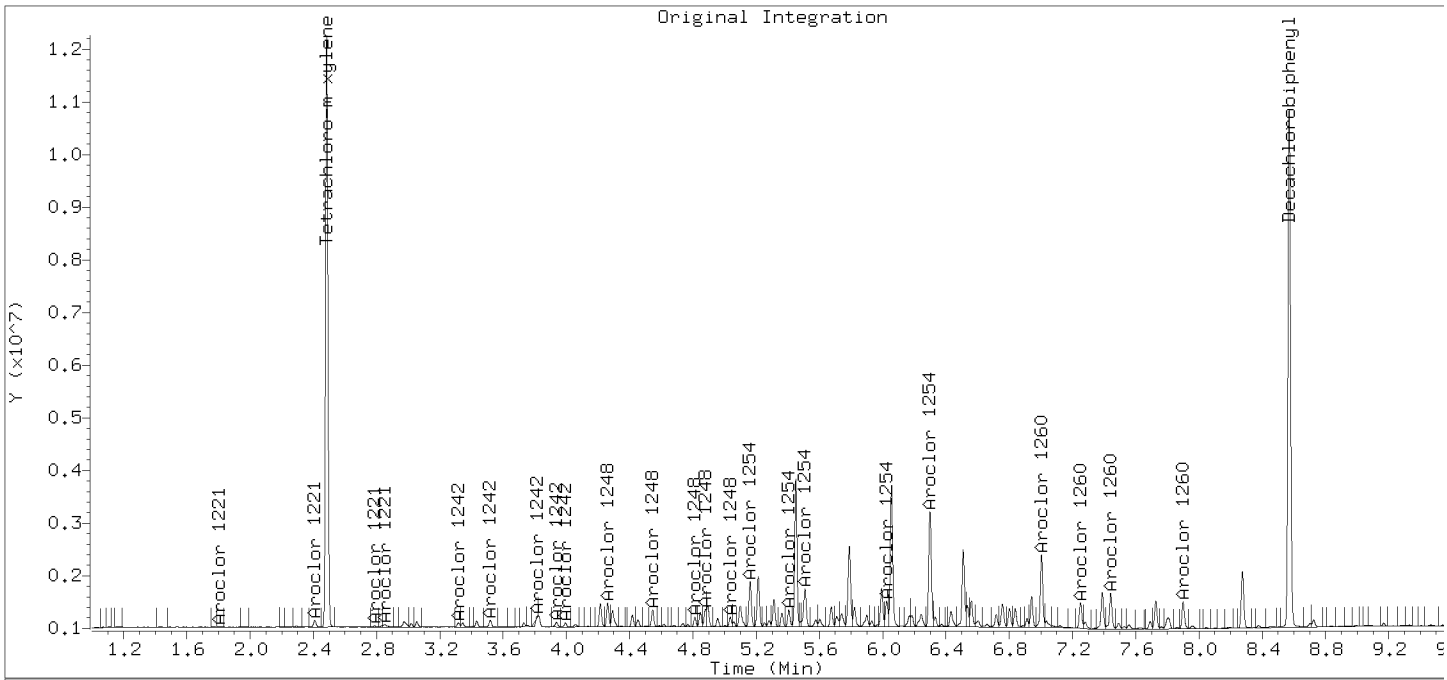
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

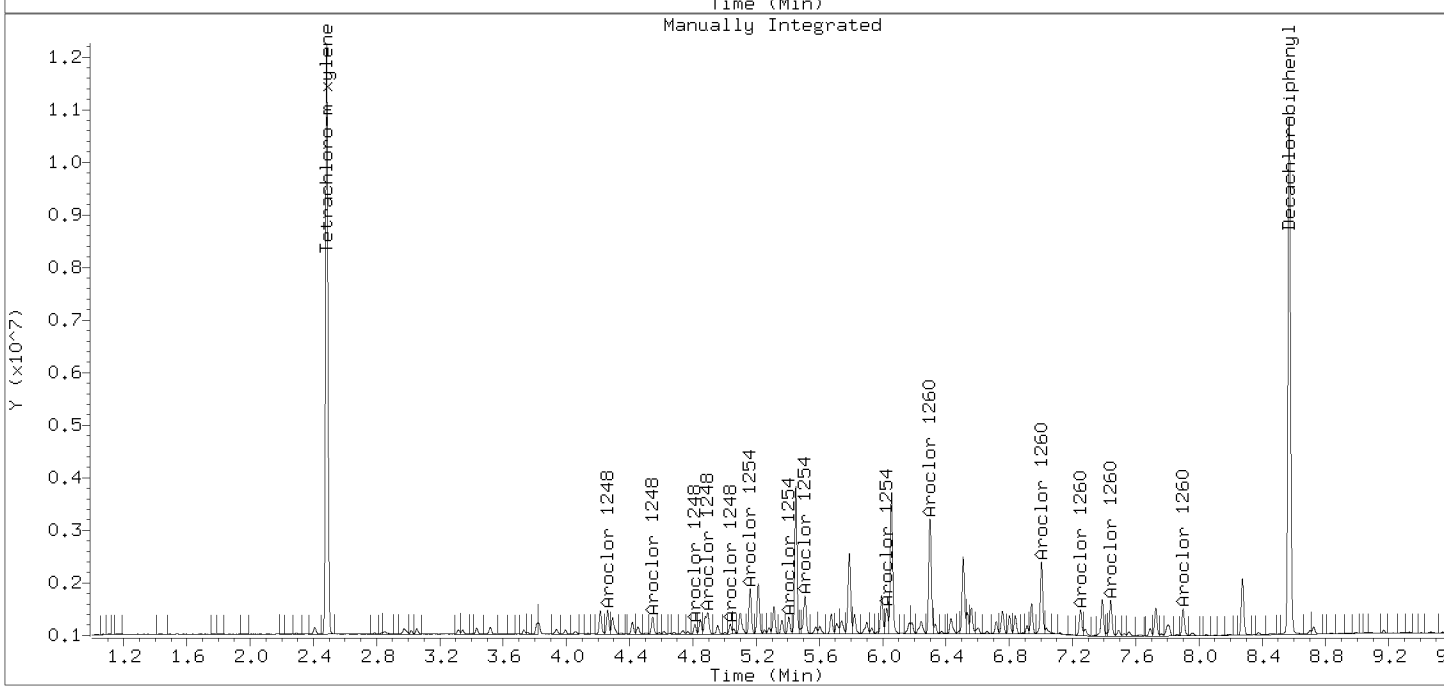
Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b\031518022.D
Date : 15-MAR-2018 18:36
Client ID: AT1-170519-01-STB-1
Sample Info: 1658676,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\031518.b/031518022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 15-MAR-2018 18:36 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1658676





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	86144	0	
Aroclor 1016	86144	0	
Aroclor 1016	86144	0	
Aroclor 1016	86144	0	
Aroclor 1016	86144	0	
Aroclor 1221	12668	0	
Aroclor 1221	12668	0	
Aroclor 1221	12668	0	
Aroclor 1221	12668	0	
Aroclor 1221	12668	0	
Aroclor 1232	85425	0	
Aroclor 1232	85425	0	
Aroclor 1232	85425	0	
Aroclor 1232	85425	0	

Aroclor 1232	85425	0	
Aroclor 1242	86144	0	
Aroclor 1242	86144	0	
Aroclor 1242	86144	0	
Aroclor 1242	86144	0	
Aroclor 1242	86144	0	
Aroclor 1248	461815	470175	BA
Aroclor 1248	461815	470175	BA
Aroclor 1248	461815	470175	BA
Aroclor 1248	461815	470175	BA
Aroclor 1248	461815	470175	BA
Aroclor 1254	929151	948621	BA
Aroclor 1254	929151	948621	BA
Aroclor 1254	929151	948621	BA
Aroclor 1254	929151	948621	BA
Aroclor 1254	929151	948621	BA
Aroclor 1260	2594331	2611046	CO
Aroclor 1260	2594331	2611046	CO
Aroclor 1260	2594331	2611046	CO
Aroclor 1260	2594331	2611046	CO
Aroclor 1260	2594331	2611046	CO
Tetrachloro-m-xylene	11540133	11540133	
Decachlorobiphenyl	11373825	11373825	

==========

Prep Log Report

Batch Information: OEXT 283218 PCB-B 2

Template Version: F-GB-O-113-Rev.04 (14Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/14/2018 12:55:08:610
Spiked By	AMC	Spiked By Date/Time	03/14/2018 12:55:14:898	Witnessed By	ETB	Witnessed By Date/Time	03/14/2018 12:55:22:434
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	3/15/18 AMC	H2SO4 - Conc.	179360	Acid 3665A Date/Initials	3/15/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/02/2018 12:10	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	**1658673**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1658674**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40150340001**	9.977	5	3		189973 (.25)	
8082A TNYP	PS	**40150340002**	9.9615	5	3		189973 (.25)	
8082A TNYP	PS	**40150340003**	10.0071	5	3		189973 (.25)	
8082A TNYP	PS	**40150340004**	9.9785	5	3		189973 (.25)	
8082A TNYP	PS	**40150340005**	10.018	5	3		189973 (.25)	
8082A TNYP	PS	**40150340006**	10.0381	5	3		189973 (.25)	
8082A TNYP	PS	**40150340007**	9.9709	5	3		189973 (.25)	
8082A TNYP	PS	**40150340008**	10.0243	5	3		189973 (.25)	
8082A TNYP	PS	**40150340009**	9.9677	5	3		189973 (.25)	
8082A TNYP	PS	**40150340010**	9.9698	5	3		189973 (.25)	
8082A TNYP	RQS	**40150340011**	9.9901	5	3		189973 (.25)	
8082A TNYP	MS	**1658675**	9.9999	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1658676**	9.9736	5	3		189973 (.25)	
8082A TNYP	PS	**40150340012**	10.0011	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40150340013**	10.0085	5	3		189973 (.25)	
8082A TNYP	PS	**40150340014**	9.994	5	3		189973 (.25)	
8082A TNYP	PS	**40150340015**	10.0171	5	3		189973 (.25)	
8082A TNYP	PS	**40150340016**	10.0061	5	3		189973 (.25)	
8082A TNYP	PS	**40150340017**	10.0114	5	3		189973 (.25)	
8082A TNYP	PS	**40150340018**	9.9955	5	3		189973 (.25)	
8082A TNYP	PS	**40150340019**	10.0027	5	3		189973 (.25)	
8082A TNYP	PS	**40150340020**	10.0048	5	3		189973 (.25)	

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

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          Comment:
         Operator:
        Data Path: C:\MSDCHEM\1\DATA\031518\
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  1658673MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1658674LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1658675MS —
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  40150340-001 —
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40150340-002 —
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40150340-003 ×2
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40150340-004 ×10
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40150340-005 —
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40150340-006 —
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40150340-007 —
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40150340-008 —
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40150340-009 —
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40150340-010 —
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40150340-011P —
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  1658676DUP —
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40150340-012 —
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40150340-013 —
     Datafile          --------

   Last Modified: Thu Mar 15 10:11:10 2018                Page:  1
```

GE BIOTA

BLM 3/26/18

Continued on Page 14

Read and Understood By

Bryan Meyer — Signed — 3/26/18 — Date

Signed — 3/26/18 — Date

```
      Method                SCREEN2014
20)   Sample          20    40150340-014 x5
      Datafile              --------
      Method                SCREEN2014
21)   RearSamp        21    40150340-015 —
      Datafile              --------
      Method                SCREEN2014
22)   Sample          22    40150340-016 —
      Datafile              --------
      Method                SCREEN2014
23)   RearSamp        23    40150340-017 —
      Datafile              --------
      Method                SCREEN2014
24)   Sample          24    40150340-018 —
      Datafile              --------
      Method                SCREEN2014
25)   RearSamp        25    40150340-019 —
      Datafile              --------
      Method                SCREEN2014
26)   Sample          26    40150340-020 x2
      Datafile              --------
      Method                SCREEN2014
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Read and Understood By

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```
   Sequence Name: C:\msdchem\1\sequence\030618.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\030618\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Unlinked
 2) RearSamp        1  prime
     Datafile          030618001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          030618002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          030618003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          030618004
     Method            GEBIOTA2017
 6) RearSamp        5  1232-CAL3S,185539:1,17499,NSA
     Datafile          030618005
     Method            GEBIOTA2017
 7) Sample          4  HEXANE
     Datafile          030618006
     Method            GEBIOTA2017
 8) RearSamp        6  1221-CAL1F,188138:1,17499,NSA
     Datafile          030618007
     Method            GEBIOTA2017
 9) Sample          5  1232-CAL3S,185539:1,17498,NSA
     Datafile          030618008
     Method            GEBIOTA2017
10) RearSamp        7  1221-CAL2F,188139:1,17499,NSA
     Datafile          030618009
     Method            GEBIOTA2017
11) Sample          6  1221-CAL1F,188138:1,17498,NSA
     Datafile          030618010
     Method            GEBIOTA2017
12) RearSamp        8  1221-CAL3F,185538:1,17499,NSA
     Datafile          030618011
     Method            GEBIOTA2017
13) Sample          7  1221-CAL2F,188139:1,17498,NSA
     Datafile          030618012
     Method            GEBIOTA2017
14) RearSamp        9  1221-CAL4F,188140:1,17499,NSA
     Datafile          030618013
     Method            GEBIOTA2017
15) Sample          8  1221-CAL3F,185538:1,17498,NSA
     Datafile          030618014
     Method            GEBIOTA2017
16) RearSamp       10  1221-CAL5F,188141:1,17499,NSA
     Datafile          030618015
     Method            GEBIOTA2017
17) Sample          9  1221-CAL4F,188140:1,17498,NSA
     Datafile          030618016
     Method            GEBIOTA2017
18) RearSamp       11  HEXANE
     Datafile          030618017
     Method            GEBIOTA2017
19) Sample         10  1221-CAL5F,188141:1,17498,NSA
     Datafile          030618018
     Method            GEBIOTA2017
20) RearSamp       12  1242-CAL1B,188132:1,17499,NSA

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```
      Datafile          030618019
      Method            GEBIOTA2017
21) Sample        11    HEXANE
      Datafile          030618020
      Method            GEBIOTA2017
22) RearSamp      13    1242-CAL2B,185543:1,17499,NSA
      Datafile          030618021
      Method            GEBIOTA2017
23) Sample        12    1242-CAL1B,188132:1,17498,NSA
      Datafile          030618022
      Method            GEBIOTA2017
24) RearSamp      14    1242-CAL3B,185544:1,17499,NSA
      Datafile          030618023
      Method            GEBIOTA2017
25) Sample        13    1242-CAL2B,185543:1,17498,NSA
      Datafile          030618024
      Method            GEBIOTA2017
26) RearSamp      15    1242-CAL4B,185545:1,17499,NSA
      Datafile          030618025
      Method            GEBIOTA2017
27) Sample        14    1242-CAL3B,185544:1,17498,NSA
      Datafile          030618026
      Method            GEBIOTA2017
28) RearSamp      16    1242-CAL5B,185546:1,17499,NSA
      Datafile          030618027
      Method            GEBIOTA2017
29) Sample        15    1242-CAL4B,185545:1,17498,NSA
      Datafile          030618028
      Method            GEBIOTA2017
30) RearSamp      17    HEXANE
      Datafile          030618029
      Method            GEBIOTA2017
31) Sample        16    1242-CAL5B,185546:1,17498,NSA
      Datafile          030618030
      Method            GEBIOTA2017
32) RearSamp      18    1248-CAL1D,188134:1,17499,NSA
      Datafile          030618031
      Method            GEBIOTA2017
33) Sample        17    HEXANE
      Datafile          030618032
      Method            GEBIOTA2017
34) RearSamp      19    1248-CAL2D,185548:1,17499,NSA
      Datafile          030618033
      Method            GEBIOTA2017
35) Sample        18    1248-CAL1D,188134:1,17498,NSA
      Datafile          030618034
      Method            GEBIOTA2017
36) RearSamp      20    1248-CAL3D,185549:1,17499,NSA
      Datafile          030618035
      Method            GEBIOTA2017
37) Sample        19    1248-CAL2D,185548:1,17498,NSA
      Datafile          030618036
      Method            GEBIOTA2017
38) RearSamp      21    1248-CAL4D,185550:1,17499,NSA
      Datafile          030618037
      Method            GEBIOTA2017
39) Sample        20    1248-CAL3D,185549:1,17498,NSA
      Datafile          030618038
      Method            GEBIOTA2017
40) RearSamp      22    1248-CAL5D,185551:1,17499,NSA
      Datafile          030618039
      Method            GEBIOTA2017
41) Sample        21    1248-CAL4D,185550:1,17498,NSA
      Datafile          030618040
      Method            GEBIOTA2017
42) RearSamp      23    HEXANE
      Datafile          030618041
      Method            GEBIOTA2017
43) Sample        22    1248-CAL5D,185551:1,17498,NSA
      Datafile          030618042
      Method            GEBIOTA2017

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Sequence Name: C:\msdchem\1\sequence\030618.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	24	1254-CAL1C,188135:1,17499,NSA		
	Datafile		030618043		
	Method			GEBIOTA2017	
45)	Sample	23	HEXANE		
	Datafile		030618044		
	Method			GEBIOTA2017	
46)	RearSamp	25	1254-CAL2C,185553:1,17499,NSA		
	Datafile		030618045		
	Method			GEBIOTA2017	
47)	Sample	24	1254-CAL1C,188135:1,17498,NSA		
	Datafile		030618046		
	Method			GEBIOTA2017	
48)	RearSamp	26	1254-CAL3C,185554:1,17499,NSA		
	Datafile		030618047		
	Method			GEBIOTA2017	
49)	Sample	25	1254-CAL2C,185553:1,17498,NSA		
	Datafile		030618048		
	Method			GEBIOTA2017	
50)	RearSamp	27	1254-CAL4C,185555:1,17499,NSA		
	Datafile		030618049		
	Method			GEBIOTA2017	
51)	Sample	26	1254-CAL3C,185554:1,17498,NSA		
	Datafile		030618050		
	Method			GEBIOTA2017	
52)	RearSamp	28	1254-CAL5C,185556:1,17499,NSA		
	Datafile		030618051		
	Method			GEBIOTA2017	
53)	Sample	27	1254-CAL4C,185555:1,17498,NSA		
	Datafile		030618052		
	Method			GEBIOTA2017	
54)	RearSamp	29	HEXANE		
	Datafile		030618053		
	Method			GEBIOTA2017	
55)	Sample	28	1254-CAL5C,185556:1,17498,NSA		
	Datafile		030618054		
	Method			GEBIOTA2017	
56)	RearSamp	30	1660-CAL1A,188136:1,17499,AR1		
	Datafile		030618055		
	Method			GEBIOTA2017	
57)	Sample	29	HEXANE		
	Datafile		030618056		
	Method			GEBIOTA2017	
58)	RearSamp	31	1660-CAL2A,185558:1,17499,AR1		
	Datafile		030618057		
	Method			GEBIOTA2017	
59)	Sample	30	1660-CAL1A,188136:1,17498,AR1		
	Datafile		030618058		
	Method			GEBIOTA2017	
60)	RearSamp	32	1660-CAL3A,185559:1,17499,AR1		
	Datafile		030618059		
	Method			GEBIOTA2017	
61)	Sample	31	1660-CAL2A,185558:1,17498,AR1		
	Datafile		030618060		
	Method			GEBIOTA2017	
62)	RearSamp	33	1660-CAL4A,185560:1,17499,AR1		
	Datafile		030618061		
	Method			GEBIOTA2017	
63)	Sample	32	1660-CAL3A,185559:1,17498,AR1		
	Datafile		030618062		
	Method			GEBIOTA2017	
64)	RearSamp	34	1660-CAL5A,185561:1,17499,AR1		
	Datafile		030618063		
	Method			GEBIOTA2017	
65)	Sample	33	1660-CAL4A,185560:1,17498,AR1		
	Datafile		030618064		
	Method			GEBIOTA2017	
66)	RearSamp	35	HEXANE		
	Datafile		030618065		

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```
      Method                GEBIOTA2017
67) Sample          34  1660-CAL5A,185561:1,17498,AR1
      Datafile            030618066
      Method              GEBIOTA2017
68) RearSamp        36  1221-ICV,188142:1,17499,AR122
      Datafile            030618067
      Method              GEBIOTA2017
69) Sample          35  HEXANE
      Datafile            030618068
      Method              GEBIOTA2017
70) RearSamp        37  1242-ICV,185562:1,17499,AR124 ok
      Datafile            030618069
      Method              GEBIOTA2017
71) Sample          36  1221-ICV,188142:1,17498,AR122 ok
      Datafile            030618070
      Method              GEBIOTA2017
72) RearSamp        38  1248-ICV,185563:1,17499,AR124 ok
      Datafile            030618071
      Method              GEBIOTA2017
73) Sample          37  1242-ICV,185562:1,17498,AR124 ok
      Datafile            030618072
      Method              GEBIOTA2017
74) RearSamp        39  1254-ICV,185564:1,17499,AR125 ok
      Datafile            030618073
      Method              GEBIOTA2017
75) Sample          38  1248-ICV,185563:1,17498,AR124 ok
      Datafile            030618074
      Method              GEBIOTA2017
76) RearSamp        40  1660-ICV,185565:1,17499,AR166 ok
      Datafile            030618075
      Method              GEBIOTA2017
77) Sample          39  1254-ICV,185564:1,17498,AR125 ok
      Datafile            030618076
      Method              GEBIOTA2017
78) RearSamp        41  1221-CRDL,188138:1,17499,RL12 ok
      Datafile            030618077
      Method              GEBIOTA2017
79) Sample          40  1660-ICV,185565:1,17498,AR166 ok
      Datafile            030618078
      Method              GEBIOTA2017
80) RearSamp        42  1242-CRDL,188132:1,17499,RL12 ok
      Datafile            030618079
      Method              GEBIOTA2017
81) Sample          41  1221-CRDL,188138:1,17498,RL12 ok
      Datafile            030618080
      Method              GEBIOTA2017
82) RearSamp        43  1248-CRDL,188134:1,17499,RL12 ok
      Datafile            030618081
      Method              GEBIOTA2017
83) Sample          42  1242-CRDL,188132:1,17498,RL12 ok
      Datafile            030618082
      Method              GEBIOTA2017
84) RearSamp        44  1254-CRDL,188135:1,17499,RL12 ok
      Datafile            030618083
      Method              GEBIOTA2017
85) Sample          43  1248-CRDL,188134:1,17498,RL12 ok
      Datafile            030618084
      Method              GEBIOTA2017
86) RearSamp        45  1660-CRDL,188136:1,17499,RL16 ok
      Datafile            030618085
      Method              GEBIOTA2017
87) Sample          44  1254-CRDL,188135:1,17498,RL12 ok
      Datafile            030618086
      Method              GEBIOTA2017
88) RearSamp        46  HEXANE
      Datafile            030618087
      Method              GEBIOTA2017
89) Sample          45  1660-CRDL,188136:1,17498,RL16 ok
      Datafile            030618088
      Method              GEBIOTA2017

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```
    Sequence Name: C:\msdchem\1\sequence\031518.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\031518\
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          031518001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          031518002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          031518003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 ok
     Datafile          031518004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 ok
     Datafile          031518005
     Method            GEBIOTA2017
 6) Sample          6  1658673,,17527,BIOTA
     Datafile          031518006
     Method            GEBIOTA2017
 7) Sample          7  1658674,,17527,BIOTA
     Datafile          031518007
     Method            GEBIOTA2017
 8) Sample          8  1658675,,17527,BIOTA
     Datafile          031518008
     Method            GEBIOTA2017
 9) Sample          9  40150340001,,17527,BIOTA
     Datafile          031518009
     Method            GEBIOTA2017
10) Sample         10  40150340002,,17527,BIOTA
     Datafile          031518010
     Method            GEBIOTA2017
11) Sample         11  40150340003 x2,,17527,BIOTA RS
     Datafile          031518011
     Method            GEBIOTA2017
12) Sample         12  40150340004 x10,,17527,BIOTA RS
     Datafile          031518012
     Method            GEBIOTA2017
13) Sample         13  40150340005,,17527,BIOTA
     Datafile          031518013
     Method            GEBIOTA2017
14) Sample         14  40150340006,,17527,BIOTA
     Datafile          031518014
     Method            GEBIOTA2017
15) Sample         15  40150340007,,17527,BIOTA
     Datafile          031518015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 ok
     Datafile          031518016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 ok
     Datafile          031518017
     Method            GEBIOTA2017
18) Sample         18  40150340008,,17527,BIOTA
     Datafile          031518018
     Method            GEBIOTA2017
19) Sample         19  40150340009,,17527,BIOTA
     Datafile          031518019

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```
      Method                GEBIOTA2017
20) Sample          20  40150340010,,17527,BIOTA
      Datafile              031518020
      Method                GEBIOTA2017
21) Sample          21  40150340011,,17527,BIOTA
      Datafile              031518021
      Method                GEBIOTA2017
22) Sample          22  1658676,,17527,BIOTA
      Datafile              031518022
      Method                GEBIOTA2017
23) Sample          23  40150340012,,17527,BIOTA
      Datafile              031518023
      Method                GEBIOTA2017
24) Sample          24  40150340013,,17527,BIOTA RS
      Datafile              031518024
      Method                GEBIOTA2017
25) Sample          25  40150340014 x5,,17527,BIOTA RS
      Datafile              031518025
      Method                GEBIOTA2017
26) Sample          26  40150340015,,17527,BIOTA RS
      Datafile              031518026
      Method                GEBIOTA2017
27) Sample          27  40150340016,,17527,BIOTA
      Datafile              031518027
      Method                GEBIOTA2017
28) Sample          28  1232-CCV,185539:1,17498,AR123 OK
      Datafile              031518028
      Method                GEBIOTA2017
29) Sample          29  1232-CCV,185539:1,17498,AR123 OK
      Datafile              031518029
      Method                GEBIOTA2017
30) Sample          30  40150340017,,17527,BIOTA
      Datafile              031518030
      Method                GEBIOTA2017
31) Sample          31  40150340018,,17527,BIOTA
      Datafile              031518031
      Method                GEBIOTA2017
32) Sample          32  40150340019,,17527,BIOTA
      Datafile              031518032
      Method                GEBIOTA2017
33) Sample          33  40150340020 x2,,17527,BIOTA RS
      Datafile              031518033
      Method                GEBIOTA2017
34) Sample          34  1242-CCV,185544:1,17498,AR124 OK
      Datafile              031518034
      Method                GEBIOTA2017
35) Sample          35  1242-CCV,185544:1,17498,AR124 OK
      Datafile              031518035
      Method                GEBIOTA2017
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Signed 3/26/18 Date Signed 3/26/18 Date

```
    Sequence Name: C:\msdchem\1\sequence\032018.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\032018\
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          032018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          032018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          032018003
     Method            GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 OL
     Datafile          032018004
     Method            GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 OL
     Datafile          032018005
     Method            GEBIOTA2017
 6) Sample          6  40150294010 x2,,17511,BIOTA
     Datafile          032018006
     Method            GEBIOTA2017
 7) Sample          7  40151597002 x2,,17521,BIOTA
     Datafile          032018007
     Method            GEBIOTA2017
 8) Sample          8  40151608011 x2,,17521,BIOTA
     Datafile          032018008
     Method            GEBIOTA2017
 9) Sample          9  40151800010 x4,,17521,BIOTA
     Datafile          032018009
     Method            GEBIOTA2017
10) Sample         10  40151804005 x2,,17521,BIOTA
     Datafile          032018010
     Method            GEBIOTA2017
11) Sample         11  40151549003 x2,,17523,BIOTA
     Datafile          032018011
     Method            GEBIOTA2017
12) Sample         12  40151549004 x2,,17523,BIOTA
     Datafile          032018012
     Method            GEBIOTA2017
13) Sample         13  40150340003 x4,,17527,BIOTA
     Datafile          032018013
     Method            GEBIOTA2017
14) Sample         14  40150340004 x20,,17527,BIOTA
     Datafile          032018014
     Method            GEBIOTA2017
15) Sample         15  40150340013 x2,,17527,BIOTA
     Datafile          032018015
     Method            GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 OL
     Datafile          032018016
     Method            GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 OL
     Datafile          032018017
     Method            GEBIOTA2017
18) Sample         18  40150340014 x10,,17527,BIOTA
     Datafile          032018018
     Method            GEBIOTA2017
19) Sample         19  40150340015 x2,,17527,BIOTA
     Datafile          032018019

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```
      Method                GEBIOTA2017
20) Sample          20  40150340020 x4,,17527,BIOTA
      Datafile              032018020
      Method                GEBIOTA2017
21) Sample          21  40151608004 x3,,17532,BIOTA
      Datafile              032018021
      Method                GEBIOTA2017
22) Sample          22  40151608007 x2,,17532,BIOTA
      Datafile              032018022
      Method                GEBIOTA2017
23) Sample          23  40151608008 x10,,17532,BIOTA
      Datafile              032018023
      Method                GEBIOTA2017
24) Sample          24  1659955,,17547,BIOTA
      Datafile              032018024
      Method                GEBIOTA2017
25) Sample          25  1659956,,17547,BIOTA
      Datafile              032018025
      Method                GEBIOTA2017
26) Sample          26  1659957,,17547,BIOTA
      Datafile              032018026
      Method                GEBIOTA2017
27) Sample          27  40151614007,,17547;BIOTA
      Datafile              032018027
      Method                GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 OK
      Datafile              032018028
      Method                GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 OK
      Datafile              032018029
      Method                GEBIOTA2017
30) Sample          30  40151614008,,17547,BIOTA
      Datafile              032018030
      Method                GEBIOTA2017
31) Sample          31  40151705001,,17547,BIOTA
      Datafile              032018031
      Method                GEBIOTA2017
32) Sample          32  40151705002,,17547,BIOTA
      Datafile              032018032
      Method                GEBIOTA2017
33) Sample          33  40151705003,,17547,BIOTA
      Datafile              032018033
      Method                GEBIOTA2017
34) Sample          34  40151705004,,17547,BIOTA
      Datafile              032018034
      Method                GEBIOTA2017
35) Sample          35  40151705005,,17547,BIOTA
      Datafile              032018035
      Method                GEBIOTA2017
36) Sample          36  40151705006,,17547,BIOTA
      Datafile              032018036
      Method                GEBIOTA2017
37) Sample          37  40151705007,,17547,BIOTA
      Datafile              032018037
      Method                GEBIOTA2017
38) Sample          38  40151705008,,17547,BIOTA
      Datafile              032018038
      Method                GEBIOTA2017
39) Sample          39  40151705009,,17547,BIOTA
      Datafile              032018039
      Method                GEBIOTA2017
40) Sample          40  1254-CCV,185554:1,17498,AR125 OK
      Datafile              032018040
      Method                GEBIOTA2017
41) Sample          41  1254-CCV,185554:1,17498,AR125 OK
      Datafile              032018041
      Method                GEBIOTA2017
42) Sample          42  40151705010,,17547,BIOTA
      Datafile              032018042
      Method                GEBIOTA2017
43) Sample          43  40151705011,,17547,BIOTA
      Datafile              032018043
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Sequence Name: C:\msdchem\1\sequence\032018.s

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40151705012,,17547,BIOTA		
	Datafile		032018044		
	Method			GEBIOTA2017	
45)	Sample	45	40151705013,,17547,BIOTA		
	Datafile		032018045		
	Method			GEBIOTA2017	
46)	Sample	46	40151705014,,17547,BIOTA		
	Datafile		032018046		
	Method			GEBIOTA2017	
47)	Sample	47	40151705015,,17547,BIOTA		
	Datafile		032018047		
	Method			GEBIOTA2017	
48)	Sample	48	40151705016,,17547,BIOTA		
	Datafile		032018048		
	Method			GEBIOTA2017	
49)	Sample	49	40151705017,,17547,BIOTA		
	Datafile		032018049		
	Method			GEBIOTA2017	
50)	Sample	50	1659958,,17547,BIOTA		
	Datafile		032018050		
	Method			GEBIOTA2017	
51)	Sample	51	40151705018,,17547,BIOTA		
	Datafile		032018051		
	Method			GEBIOTA2017	
52)	Sample	52	1660-CCV,185559:1,17498,AR166		OK
	Datafile		032018052		
	Method			GEBIOTA2017	
53)	Sample	53	1660-CCV,185559:1,17498,AR166		OK
	Datafile		032018053		
	Method			GEBIOTA2017	

GCSV Batch #17547 HBN: 2837446 Screened on 40GCSJ 03/20/18.

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BLK 3/26/18

Continued on Page —

Read and Understood By

Signed 3/26/18 Date Signed 3/26/18 Date

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

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 #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 #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			

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

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

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185529

Composed of Standard Seq	Volume	Units
184640	9	mL
173180	1000	uL

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL
PCB-1242 (Aroclor 1242)	100 ug/mL	PCB-1242 (Aroclor 1242)-6	100 ug/mL
PCB-1242 (Aroclor 1242)-7	100 ug/mL	PCB-1242 (Aroclor 1242)-8	100 ug/mL
PCB-1242 (Aroclor 1242)-9	100 ug/mL		

Composed of Information for Standard #185528

Composed of Standard Seq	Volume	Units
184640	9	mL
173178	1000	uL

Standard Log Report

Standards Log Information for Standard #185527

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185527

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1232 (Aroclor 1232)	100 ug/mL

Composed of Information for Standard #185527

Composed of Standard Seq	Volume	Units
184640	9	mL
173176	1000	uL

Standard Log Report

Standards Log Information for Standard #185526

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185526

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL
PCB-1221 (Aroclor 1221)-1	100 ug/mL	PCB-1221 (Aroclor 1221)-2	100 ug/mL
PCB-1221 (Aroclor 1221)-3	100 ug/mL	PCB-1221 (Aroclor 1221)-4	100 ug/mL
PCB-1232 (Aroclor 1232)-5	100 ug/mL		

Composed of Information for Standard #185526

Composed of Standard Seq	Volume	Units
184640	9	mL
173174	1000	uL

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

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		

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

Standard Log Report

Standards Log Information for Standard #179366

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179366

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #178398

INDIVIDUAL STANDARD

Created By:	DMH	**Volume of Standard:**	1 mL	**Lot ID:**	405520
Create Date:	09/18/2017	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0125833	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #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		

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

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

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		

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		

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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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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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130023-15	311236	≤ 6 °C	Tol.:Hex. 1:1	8-Jun-2019	Pesticide Surrogate Solution, 2,000 mg/L, 10 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
decachlorobiphenyl (BZ# 209)	2051-24-3	99.1	301.115.5P	2022 +/- 4.56	mg/L
2,4,5,6-tetrachloro-m-xylene	877-09-8	98.6	300.115.3P	1996 +/- 14.54	mg/L

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 2781200)		+/- 31.9602	µg/mL	Unstressed
	Purity ----%			+/- 41.7506	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

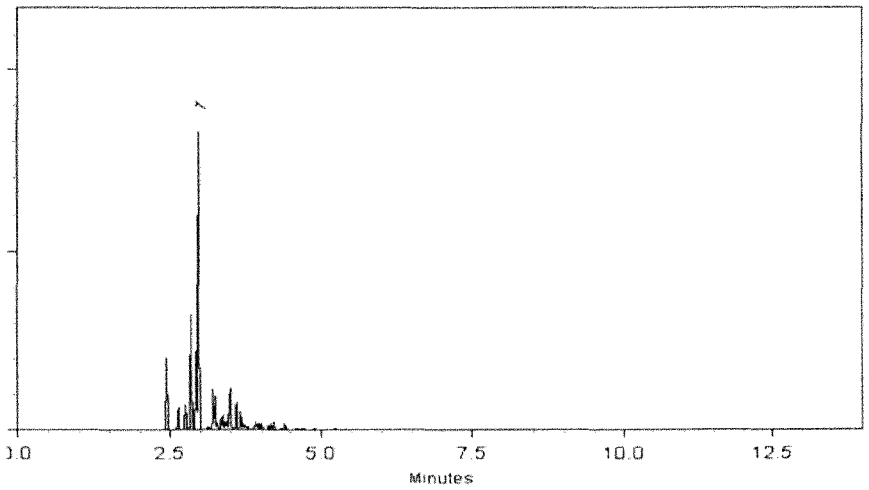
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

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Catalog No. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.7072	µg/mL	Unstressed
	Purity ----%		+/- 41.4130	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405369
REC.07/06/17 BY BDS
Exp. __/__/__ By --
Open __/__/__ By --

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

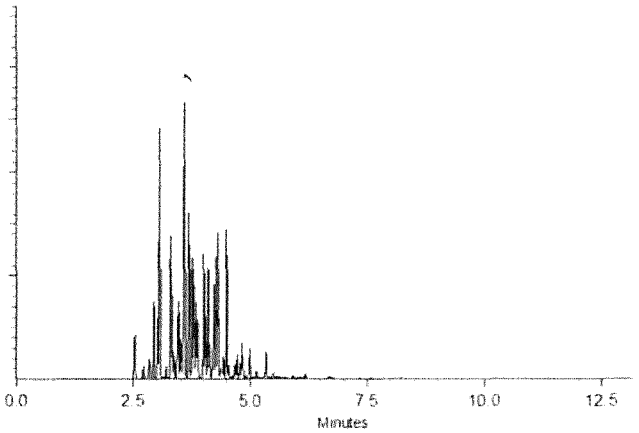
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech:AKM QC

Date Passed: 31-Jan-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32009 **Lot No.:** A0124535

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1242	1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 53469-21-9 (Lot 01141-A)		+/- 31.7706 µg/mL	Unstressed
	Purity ----%		+/- 41.4958 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405370
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

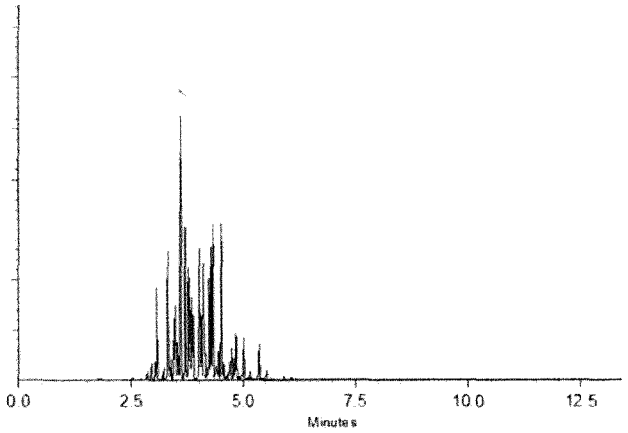
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 **Lot No.:** A0121842

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	996.8 µg/mL	+/- 5.8498 µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 07)		+/- 31.5925 µg/mL	Unstressed
	Purity ----%		+/- 41.2704 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405371
REC.07/06/17 BY BDS
Exp. __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

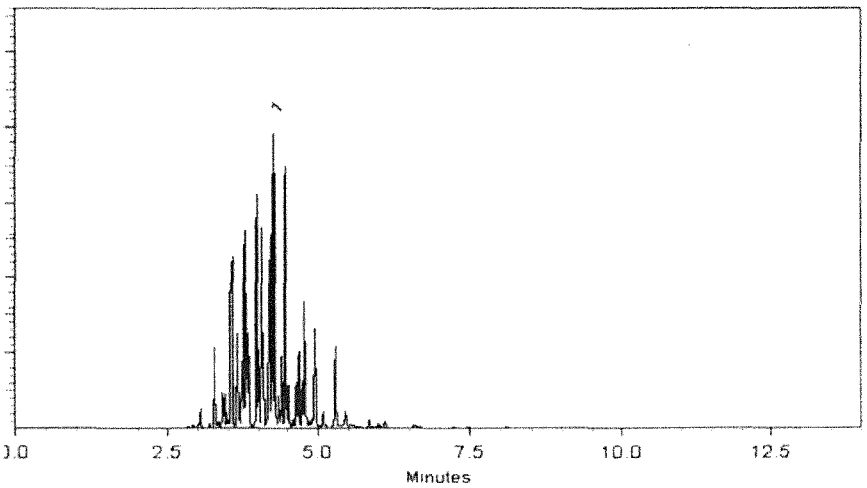
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician

Date Mixed: 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254		1,005.6 µg/mL	+/- 5.9014	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8715	µg/mL	Unstressed
	Purity ----%			+/- 41.6347	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

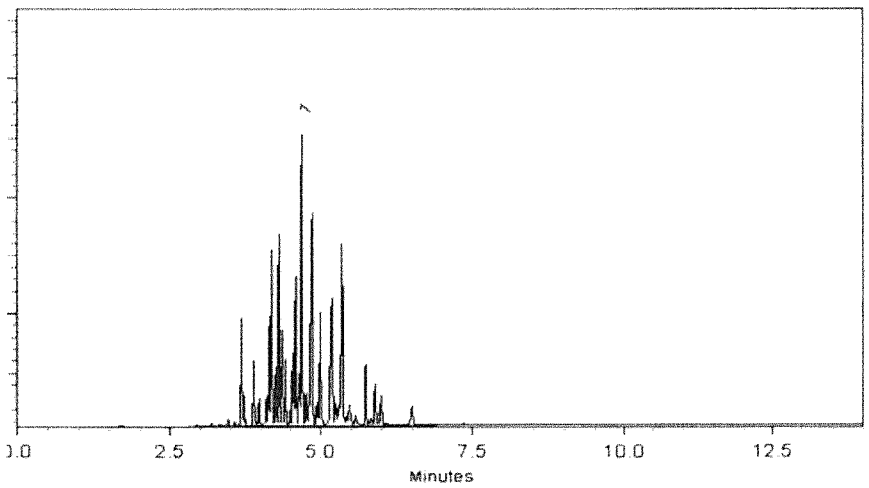
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,002.0 µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot W-125-04)		+/- 31.7498	µg/mL	Unstressed
	Purity ----%			+/- 41.4799	µg/mL	Stressed
2	Aroclor 1260		1,002.2 µg/mL	+/- 5.8403	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot W-129-06)		+/- 31.7561	µg/mL	Unstressed
	Purity ----%			+/- 41.4881	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

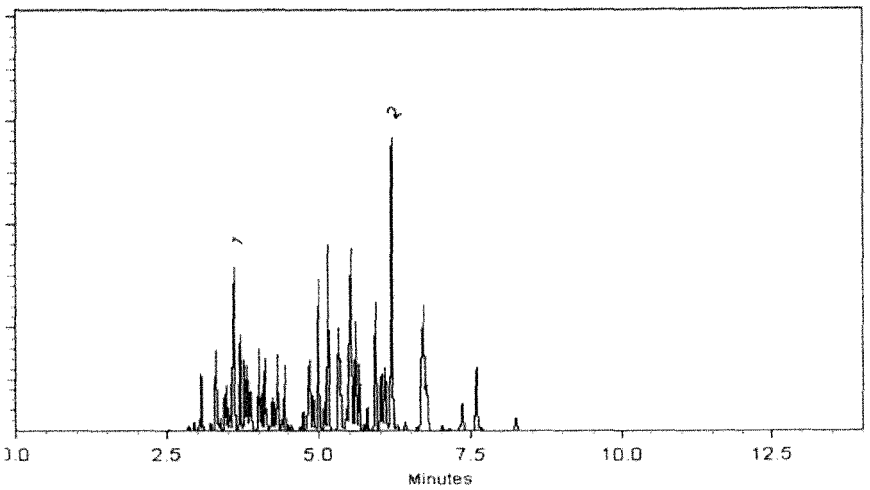
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 30-Jan-2017 **Balance:** B442140311

Jennifer J 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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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	302979	Ambient or Less	Hexane	20-Mar-2027	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1010 +/- 7.38	mg/L

405384
REC.07/13/17 BY BDS
Exp. __/__/__ By --
Open / / By

Certified By: _____
Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030276-15	296389	≤ Ambient	Hexane	14-Jan-2020	Aroclor 1248 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1248	12672-29-6	100	276.3.1P	1008 +/- 4.47	mg/L

405385
REC. 07/13/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Katrina Emelianoff

Manufacture Date 9-Jan-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030277-06	302980	≤ Ambient	Hexane	21-Mar-2020	Aroclor 1254 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1254	11097-69-1	100	277.6.4P	1004 +/- 4.32	mg/L

405386
REC.07/13/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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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

Honeywell Burdick & Jackson®
1953 South Harvey Street
Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

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

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
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Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0125833

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

dmh 9-18-17

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3844	µg/mL	Unstressed
	Purity 98%			+/- 8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.9 µg/mL	+/- 1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3975	µg/mL	Unstressed
	Purity 99%			+/- 8.3581	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

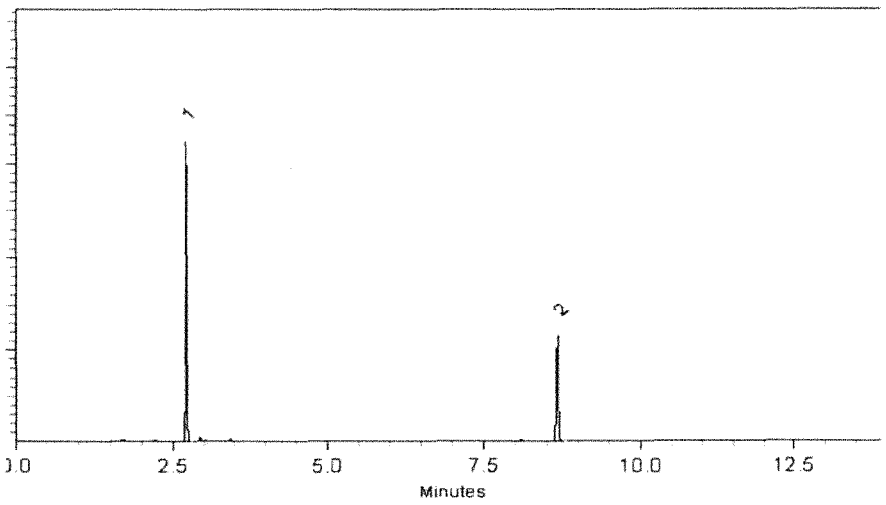
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Mar-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

405532
REC. 09/29/17 BY MRN
Exp. --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

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1953 South Harvey Street
Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.31	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.97	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0481	AU
UV Absorbance @ 350 nm		0.010	0.0014	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

2030 Savage Road
Charleston, South Carolina 29407
Phone: 866.272.0932
Fax: 866.509.5146
www.o2si.com

o2si smart solutions®

Quality System Audited & Registered by NSF-ISR to ISO 9001:2008

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
Open --/--/-- By --

J.T.Baker® | avantor™

Material No.: 3375-09
Batch No.: 0000177456
Manufactured Date: 2017/05/23
Retest Date: 2022/05/22

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (Na_2SO_4)	>= 99.0 %	99.2
ACS - Insoluble Matter	<= 0.01 %	< 0.01
ACS - Loss on Ignition	<= 0.5 %	0.1
ACS - pH of 5% Solution at 25°C	5.2 - 9.2	6.0
ACS - Chloride (Cl)	<= 0.001 %	< 0.001
ACS - Phosphate (PO_4)	<= 0.001 %	< 0.001
ACS - Calcium (Ca)	<= 0.01 %	< 0.01
ACS - Iron (Fe)	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.005 %	< 0.005
ACS - Potassium (K)	<= 0.01 %	< 0.01
ACS - Extraction-Concentration Suitability *	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Nitrogen Compounds (as N)	<= 5 ppm	< 5

For Laboratory, Research or Manufacturing Use
* Result obtained on a sample dried at 400°C for one hour (ACS method)

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

405661
REC. 10/26/17 BY AMC
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000183983
Manufactured Date: 2017/09/15
Expiration Date: 2018/12/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.8
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	98
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.5
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

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Certificate #3222.01

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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)

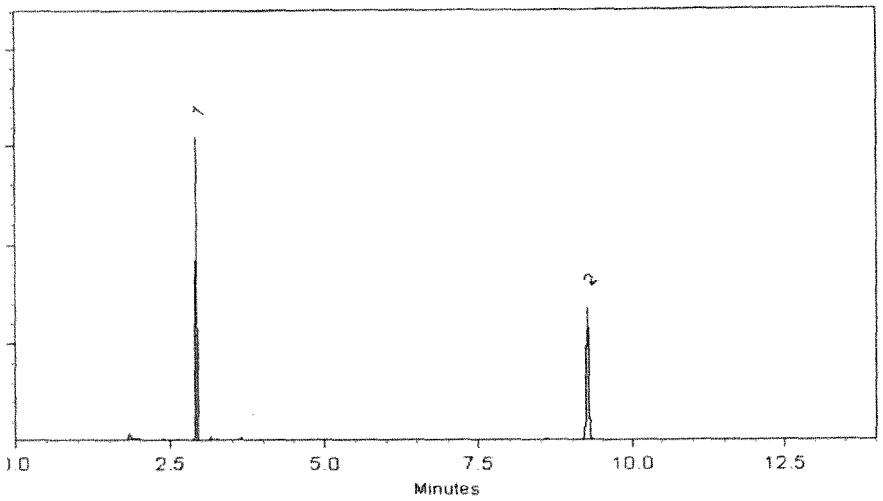
Carrier Gas:
helium-constant pressure 20 psi.

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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
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Quality System Audited & Registered by NSF-ISR to ISO 9001:2008

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
020986-02 -02-SS	297165	≤ -10 °C	P/T Methanol	16-Jan-2020	Dichlorofluoromethane (Freon 21) Gas Solution, Second Source, 2000 mg/L, 2 x 0.6 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
dichlorofluoromethane (Freon 21)	75-43-4	99	986.158.2.2.1S	2008 +/- 20.85 mg/L

405766
REC. 02/26/18 BY SMT
Exp. --/--/-- By --
Open / / By

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system that is accredited to ISO 17034 and ISO/IEC 17025.

Second Source standards are prepared according to NELAC

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

SAMPLE NO.

AT1-170519-01-STB-20

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.51		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-19

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-18

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	5.5		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-17

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	10.0		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-16

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.49		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-15

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.85		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-14

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.82		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-13

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.72		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-12

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.64		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-11

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.8		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.9		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	5.5		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.6		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.2		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.6		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.1		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340017 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340018 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.2		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340019 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.4		%	1	03/15/2018 06:48

SAMPLE NO.

AT1-170519-01-STB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40150340020 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.2		%	1	03/15/2018 06:48

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract : HUDSON RIVER REMEDIAL ACTION M

Method Blank Matrix: Tissue Instrument ID: 40BALL

Method Blank Concentration Units: %

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1659202	C
Lipid									<0.030	U

SAMPLE NO.

1659203DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40150340 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	1.9	1.7	14

Prep Log Report

Batch Information: OEXT 283335 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 12:52				

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	**1659204**	Y	-0.01000	03/15/2018 06:48:29		10	5	1	0.9302	0.93	M	
LIPID	BLANK	**1659202**	Y	-0.01500	03/15/2018 06:48:29		10	5	1	0.9336	0.9333	M	
LIPID	PS	**40150340001**	Y	0.5112	03/15/2018 06:48:29		9.977	5	1	0.9304	0.9406	M	
LIPID	PS	**40150340002**	Y	1.149	03/15/2018 06:48:29		9.9615	5	1	0.9302	0.9531	M	
LIPID	PS	**40150340003**	Y	5.511	03/15/2018 06:48:29		10.0071	5	1	0.9275	1.0378	M	
LIPID	PS	**40150340004**	Y	10.01	03/15/2018 06:48:29		9.9785	5	1	0.9293	1.129	M	
LIPID	PS	**40150340005**	Y	0.4891	03/15/2018 06:48:29		10.018	5	1	0.9276	0.9374	M	
LIPID	PS	**40150340006**	Y	0.8518	03/15/2018 06:48:29		10.0381	5	1	0.9287	0.9458	M	
LIPID	PS	**40150340007**	Y	0.8174	03/15/2018 06:48:29		9.9709	5	1	0.9272	0.9435	M	
LIPID	PS	**40150340008**	Y	0.7232	03/15/2018 06:48:29		10.0243	5	1	0.927	0.9415	M	
LIPID	PS	**40150340009**	Y	0.6421	03/15/2018 06:48:29		9.9677	5	1	0.9286	0.9414	M	
LIPID	PS	**40150340010**	Y	2.849	03/15/2018 06:48:29		9.9698	5	1	0.9237	0.9805	M	
LIPID	RQS	**40150340011**	Y	1.932	03/15/2018 06:48:29		9.9901	5	1	0.9265	0.9651	M	
LIPID	DUP	**1659203**	Y	1.684	03/15/2018 06:48:29		9.9736	5	1	0.9303	0.9639	M	
LIPID	PS	**40150340012**	Y	5.489	03/15/2018 06:48:29		10.0011	5	1	0.9284	1.0382	M	
LIPID	PS	**40150340013**	Y	1.609	03/15/2018 06:48:29		10.0085	5	1	0.9295	0.9617	M	
LIPID	PS	**40150340014**	Y	4.213	03/15/2018 06:48:29		9.994	5	1	0.9266	1.0108	M	
LIPID	PS	**40150340015**	Y	1.622	03/15/2018 06:48:29		10.0171	5	1	0.9284	0.9609	M	
LIPID	PS	**40150340016**	Y	1.129	03/15/2018 06:48:29		10.0061	5	1	0.9281	0.9507	M	

Prep Log Report

40150340

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	**40150340017**	Y	1.019	03/15/2018 06:48:29		10.0114	5	1	0.9253	0.9457	M	
LIPID	PS	**40150340018**	Y	2.186	03/15/2018 06:48:29		9.9955	5	1	0.9277	0.9714	M	
LIPID	PS	**40150340019**	Y	1.430	03/15/2018 06:48:29		10.0027	5	1	0.9308	0.9594	M	
LIPID	PS	**40150340020**	Y	3.168	03/15/2018 06:48:29		10.0048	5	1	0.9287	0.9921	M	
LIPID	MS	**1682455**	Y	1.650	03/15/2018 06:48:29		9.9999	5	1	.9258	0.9588	M	

40150340

Client Name: GE
Project #: 40150340
Sample Type: Fish
Date/Time Removed to Thaw: 03-09-18
Date/Time Prepped: 03-12-18
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
12	A	F	Y	4639.9	Y	F	881.5	Left / Both	Y	32AG	2	Y	848.8	RM 2	
16	A	F	Y	5325.0	Y	F	923.2	Left / Both	Y	32AG	2	Y	888.5	RM 2	
19	A	F	Y	6819.0	Y	F	1304.4	Left / Both	Y	32AG	2	Y	1253.3	RM 2	
10	A	F	Y	9389.3	Y	F	1704.2	Left / Both	Y	32AG	3	Y	1640.0	RM 3	
1	A	F	Y	3774.6	Y	M	815.1	Left / Both	Y	32AG	2	Y	795.1	RM2	
11	A	F	Y	9222.2	Y	F	1553.9	Left / Both	Y	32AG	3	Y	1522.4	RM3	
4	A	F	Y	1970.1	Y	F	401.0	Left / Both	Y	32AG	1	Y	386.4	RM2	
9	A	F	Y	1032.2	Y	M	202.7	Left / Both	Y	32AG	1	Y	198.7	R	
8	A	F	Y	1206.6	Y	M	268.5	Left / Both	Y	32AG	1	Y	261.9	R	
5	A	F	Y	2043.7	Y	M	407.9	Left / Both	Y	32AG	1	Y	394.6	R	
6	A	F	Y	944.7	Y	F	191.8	Left / Both	Y	9AG	1	Y	187.5	R	
14	A	F	Y	2083.2	Y	F	426.6	Left / Both	Y	32AG	1	Y	418.0	R	
7	A	F	Y	1130.2	Y	M	243.4	Left / Both	Y	32AG	1	Y	236.1	R	
								Left / Both							
								Left / Both							
								Left / Both							
						CWN	03-12-18	Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							

(1) M = Male, F = Female, U = Undetermined

(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.

(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-7-212-D4AB
32AG	32 oz Amber Glass	J-4-338-D2AB

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

3/6/18
Date

40150340

Client Name: GE
Project #: 40150340
Sample Type: Fish
Date/Time Removed to Thaw: 03-12-18
Date/Time Prepped: 03-13-18
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
2	A	F	Y	3594.1	Y	F	733.2	Left / Both	Y	32AG	2	Y	708.1	RM2	
15	A	F	Y	3393.8	Y	F	757.5	Left / Both	Y	32AG	2	Y	738.9	RM2	
17	A	F	Y	3202.6	Y	M	657.5	Left / Both	Y	32AG	1	Y	645.9	RM2	
3	A	F	Y	4156.5	Y	F	907.9	Left / Both	Y	32AG	2	Y	888.0	RM2	
18	A	F	Y	3956.3	Y	F	826.3	Left / Both	Y	32AG	2	Y	803.5	RM2	
20	A	F	Y	2958.7	Y	M	572.4	Left / Both	Y	32AG	1	Y	563.0	R	
13	A	F	Y	3169.8	Y	M	646.3	Left / Both	Y	32AG	1	Y	630.1	R	
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
						CWN	03-13-18	Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							
								Left / Both							

020 of 020

(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	
32AG	32 oz Amber Glass	J-4-338-02AB

(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