Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40157822

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

May 02, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Tod Noltemeyer

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

Enclosures

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

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CERTIFICATIONS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

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.: 40157822

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40157822001	**AT1-170616-01-SMB-20**	Tissue	06/16/17 14:32	10/03/17 10:20
40157822002	**AT1-170616-01-SMB-19**	Tissue	06/16/17 14:30	10/03/17 10:20
40157822003	**AT1-170616-01-SMB-18**	Tissue	06/16/17 14:28	10/03/17 10:20
40157822004	**AT1-170616-01-SMB-17**	Tissue	06/16/17 14:25	10/03/17 10:20
40157822005	**AT1-170616-01-SMB-16**	Tissue	06/16/17 14:23	10/03/17 10:20
40157822006	**AT1-170616-01-SMB-15**	Tissue	06/16/17 14:21	10/03/17 10:20
40157822007	**AT1-170616-01-SMB-14**	Tissue	06/16/17 14:18	10/03/17 10:20
40157822008	**AT1-170616-01-SMB-13**	Tissue	06/16/17 14:16	10/03/17 10:20
40157822009	**AT1-170616-01-SMB-12**	Tissue	06/16/17 14:14	10/03/17 10:20
40157822010	**AT1-170616-01-SMB-11**	Tissue	06/16/17 14:12	10/03/17 10:20
40157822011	**AT1-170616-01-SMB-10**	Tissue	06/16/17 14:11	10/03/17 10:20
40157822012	**AT1-170616-01-SMB-09**	Tissue	06/16/17 12:52	10/03/17 10:20
40157822013	**AT1-170616-01-SMB-08**	Tissue	06/16/17 12:49	10/03/17 10:20
40157822014	**AT1-170616-01-SMB-07**	Tissue	06/16/17 12:46	10/03/17 10:20
40157822015	**AT1-170616-01-SMB-06**	Tissue	06/16/17 12:44	10/03/17 10:20
40157822016	**AT1-170616-01-SMB-05**	Tissue	06/16/17 12:42	10/03/17 10:20
40157822017	**AT1-170616-01-SMB-04**	Tissue	06/16/17 10:57	10/03/17 10:20
40157822018	**AT1-170616-01-SMB-03**	Tissue	06/16/17 10:56	10/03/17 10:20
40157822019	**AT1-170616-01-SMB-02**	Tissue	06/16/17 09:40	10/03/17 10:20
40157822020	**AT1-170616-01-SMB-01**	Tissue	06/16/17 09:38	10/03/17 10:20

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40157822001	AT1-170616-01-SMB-20	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822002	AT1-170616-01-SMB-19	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822003	AT1-170616-01-SMB-18	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822004	AT1-170616-01-SMB-17	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822005	AT1-170616-01-SMB-16	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822006	AT1-170616-01-SMB-15	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822007	AT1-170616-01-SMB-14	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822008	AT1-170616-01-SMB-13	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822009	AT1-170616-01-SMB-12	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822010	AT1-170616-01-SMB-11	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822011	AT1-170616-01-SMB-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822012	AT1-170616-01-SMB-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822013	AT1-170616-01-SMB-08	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822014	**AT1-170616-01-SMB-07**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822015	**AT1-170616-01-SMB-06**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822016	**AT1-170616-01-SMB-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822017	**AT1-170616-01-SMB-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822018	**AT1-170616-01-SMB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822019	**AT1-170616-01-SMB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157822020	**AT1-170616-01-SMB-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.: 40157822

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 02, 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.

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.: 40157822

Method: **Pace Gender Typing**
Description: Fish Gender Typing
Client: General Electric
Date: May 02, 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.: 40157822

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 02, 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.: 40157822

Sample: AT1-170616-01-SMB-20 **Lab ID: 40157822001** Collected: 06/16/17 14:32 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 16:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 16:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 16:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 16:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**1150**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 16:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**999**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 16:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**1030**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 16:36	11096-82-5	
PCB, Total	**3180**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 16:36	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		10	04/02/18 07:11	04/03/18 16:36	877-09-8	
Decachlorobiphenyl (S)	117	%	60-140		10	04/02/18 07:11	04/03/18 16:36	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.90**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-19 **Lab ID: 40157822002** Collected: 06/16/17 14:30 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 16:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 16:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 16:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 16:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**1910**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 16:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**1290**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 16:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**667**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 16:52	11096-82-5	
PCB, Total	**3870**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 16:52	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	60-140		10	04/02/18 07:11	04/03/18 16:52	877-09-8	
Decachlorobiphenyl (S)	121	%	60-140		10	04/02/18 07:11	04/03/18 16:52	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.7**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-18 **Lab ID: 40157822003** Collected: 06/16/17 14:28 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<45.5**	ug/kg	200	45.5	4	04/02/18 07:11	04/03/18 17:08	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.5**	ug/kg	200	45.5	4	04/02/18 07:11	04/03/18 17:08	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.5**	ug/kg	200	45.5	4	04/02/18 07:11	04/03/18 17:08	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.5**	ug/kg	200	45.5	4	04/02/18 07:11	04/03/18 17:08	53469-21-9	
PCB-1248 (Aroclor 1248)	**802**	ug/kg	200	45.5	4	04/02/18 07:11	04/03/18 17:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**443**	ug/kg	200	45.5	4	04/02/18 07:11	04/03/18 17:08	11097-69-1	
PCB-1260 (Aroclor 1260)	**312**	ug/kg	200	45.5	4	04/02/18 07:11	04/03/18 17:08	11096-82-5	
PCB, Total	**1560**	ug/kg	200	45.5	4	04/02/18 07:11	04/03/18 17:08	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	103	%	60-140		4	04/02/18 07:11	04/03/18 17:08	877-09-8	
Decachlorobiphenyl (S)	114	%	60-140		4	04/02/18 07:11	04/03/18 17:08	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.5**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-17 **Lab ID: 40157822004** Collected: 06/16/17 14:25 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<45.7**	ug/kg	201	45.7	4	04/02/18 07:11	04/03/18 17:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.7**	ug/kg	201	45.7	4	04/02/18 07:11	04/03/18 17:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.7**	ug/kg	201	45.7	4	04/02/18 07:11	04/03/18 17:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.7**	ug/kg	201	45.7	4	04/02/18 07:11	04/03/18 17:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**620**	ug/kg	201	45.7	4	04/02/18 07:11	04/03/18 17:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**353**	ug/kg	201	45.7	4	04/02/18 07:11	04/03/18 17:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**278**	ug/kg	201	45.7	4	04/02/18 07:11	04/03/18 17:23	11096-82-5	
PCB, Total	**1250**	ug/kg	201	45.7	4	04/02/18 07:11	04/03/18 17:23	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	60-140		4	04/02/18 07:11	04/03/18 17:23	877-09-8	
Decachlorobiphenyl (S)	99	%	60-140		4	04/02/18 07:11	04/03/18 17:23	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.65**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-16 **Lab ID: 40157822005** Collected: 06/16/17 14:23 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<45.7**	ug/kg	200	45.7	4	04/02/18 07:11	04/03/18 17:39	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.7**	ug/kg	200	45.7	4	04/02/18 07:11	04/03/18 17:39	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.7**	ug/kg	200	45.7	4	04/02/18 07:11	04/03/18 17:39	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.7**	ug/kg	200	45.7	4	04/02/18 07:11	04/03/18 17:39	53469-21-9	
PCB-1248 (Aroclor 1248)	**711**	ug/kg	200	45.7	4	04/02/18 07:11	04/03/18 17:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**449**	ug/kg	200	45.7	4	04/02/18 07:11	04/03/18 17:39	11097-69-1	
PCB-1260 (Aroclor 1260)	**529**	ug/kg	200	45.7	4	04/02/18 07:11	04/03/18 17:39	11096-82-5	
PCB, Total	**1690**	ug/kg	200	45.7	4	04/02/18 07:11	04/03/18 17:39	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		4	04/02/18 07:11	04/03/18 17:39	877-09-8	
Decachlorobiphenyl (S)	108	%	60-140		4	04/02/18 07:11	04/03/18 17:39	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.72**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-15 **Lab ID: 40157822006** Collected: 06/16/17 14:21 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	501	114	10	04/02/18 07:11	04/03/18 17:55	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	501	114	10	04/02/18 07:11	04/03/18 17:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	501	114	10	04/02/18 07:11	04/03/18 17:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	501	114	10	04/02/18 07:11	04/03/18 17:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**1660**	ug/kg	501	114	10	04/02/18 07:11	04/03/18 17:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**1050**	ug/kg	501	114	10	04/02/18 07:11	04/03/18 17:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**505**	ug/kg	501	114	10	04/02/18 07:11	04/03/18 17:55	11096-82-5	
PCB, Total	**3210**	ug/kg	501	114	10	04/02/18 07:11	04/03/18 17:55	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		10	04/02/18 07:11	04/03/18 17:55	877-09-8	
Decachlorobiphenyl (S)	116	%	60-140		10	04/02/18 07:11	04/03/18 17:55	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.7**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-14 **Lab ID: 40157822007** Collected: 06/16/17 14:18 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<56.9**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 18:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<56.9**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 18:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.9**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 18:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.9**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 18:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**859**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 18:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**703**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 18:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**291**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 18:43	11096-82-5	
PCB, Total	**1850**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 18:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	60-140		5	04/02/18 07:11	04/03/18 18:43	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		5	04/02/18 07:11	04/03/18 18:43	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.64**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-13 **Lab ID: 40157822008** Collected: 06/16/17 14:16 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 18:59	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 18:59	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 18:59	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 18:59	53469-21-9	
PCB-1248 (Aroclor 1248)	**1130**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 18:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**987**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 18:59	11097-69-1	
PCB-1260 (Aroclor 1260)	**555**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 18:59	11096-82-5	
PCB, Total	**2670**	ug/kg	500	114	10	04/02/18 07:11	04/03/18 18:59	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		10	04/02/18 07:11	04/03/18 18:59	877-09-8	
Decachlorobiphenyl (S)	115	%	60-140		10	04/02/18 07:11	04/03/18 18:59	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.57**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-12 **Lab ID: 40157822009** Collected: 06/16/17 14:14 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 19:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 19:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 19:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 19:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**209**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 19:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**142**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 19:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**149**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 19:14	11096-82-5	
PCB, Total	**500**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 19:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		1	04/02/18 07:11	04/03/18 19:14	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	04/02/18 07:11	04/03/18 19:14	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.37**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-11 **Lab ID: 40157822010** Collected: 06/16/17 14:12 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.3**	ug/kg	150	34.3	3	04/02/18 07:11	04/03/18 19:30	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.3**	ug/kg	150	34.3	3	04/02/18 07:11	04/03/18 19:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.3**	ug/kg	150	34.3	3	04/02/18 07:11	04/03/18 19:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.3**	ug/kg	150	34.3	3	04/02/18 07:11	04/03/18 19:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**512**	ug/kg	150	34.3	3	04/02/18 07:11	04/03/18 19:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**400**	ug/kg	150	34.3	3	04/02/18 07:11	04/03/18 19:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**376**	ug/kg	150	34.3	3	04/02/18 07:11	04/03/18 19:30	11096-82-5	
PCB, Total	**1290**	ug/kg	150	34.3	3	04/02/18 07:11	04/03/18 19:30	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		3	04/02/18 07:11	04/03/18 19:30	877-09-8	
Decachlorobiphenyl (S)	102	%	60-140		3	04/02/18 07:11	04/03/18 19:30	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.57**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-10 **Lab ID: 40157822011** Collected: 06/16/17 14:11 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 19:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 19:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 19:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 19:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**1500**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 19:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**1200**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 19:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**1180**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 19:46	11096-82-5	
PCB, Total	**3880**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 19:46	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	105	%	60-140		10	04/02/18 07:11	04/03/18 19:46	877-09-8	
Decachlorobiphenyl (S)	138	%	60-140		10	04/02/18 07:11	04/03/18 19:46	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.34**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-09 **Lab ID: 40157822012** Collected: 06/16/17 12:52 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**1810**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**1370**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**840**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:02	11096-82-5	
PCB, Total	**4030**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:02	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	102	%	60-140		10	04/02/18 07:11	04/03/18 20:02	877-09-8	
Decachlorobiphenyl (S)	134	%	60-140		10	04/02/18 07:11	04/03/18 20:02	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.1**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-08 **Lab ID: 40157822013** Collected: 06/16/17 12:49 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.2**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 20:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.2**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 20:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 20:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 20:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**455**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 20:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**369**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 20:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**164**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 20:18	11096-82-5	
PCB, Total	**988**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 20:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		3	04/02/18 07:11	04/03/18 20:18	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		3	04/02/18 07:11	04/03/18 20:18	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.86**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-07 **Lab ID: 40157822014** Collected: 06/16/17 12:46 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:34	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:34	53469-21-9	
PCB-1248 (Aroclor 1248)	**1940**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**1250**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**588**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:34	11096-82-5	
PCB, Total	**3780**	ug/kg	502	114	10	04/02/18 07:11	04/03/18 20:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	100	%	60-140		10	04/02/18 07:11	04/03/18 20:34	877-09-8	
Decachlorobiphenyl (S)	123	%	60-140		10	04/02/18 07:11	04/03/18 20:34	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.8**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-06 **Lab ID: 40157822015** Collected: 06/16/17 12:44 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.9**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 20:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.9**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 20:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.9**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 20:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.9**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 20:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**405**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 20:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**311**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 20:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**304**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 20:50	11096-82-5	
PCB, Total	**1020**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 20:50	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	60-140		2	04/02/18 07:11	04/03/18 20:50	877-09-8	
Decachlorobiphenyl (S)	115	%	60-140		2	04/02/18 07:11	04/03/18 20:50	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:26		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.45**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-05 **Lab ID: 40157822016** Collected: 06/16/17 12:42 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<56.9**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 21:05	12674-11-2	
PCB-1221 (Aroclor 1221)	**<56.9**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 21:05	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.9**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 21:05	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.9**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 21:05	53469-21-9	
PCB-1248 (Aroclor 1248)	**1100**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 21:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**776**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 21:05	11097-69-1	
PCB-1260 (Aroclor 1260)	**333**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 21:05	11096-82-5	
PCB, Total	**2210**	ug/kg	250	56.9	5	04/02/18 07:11	04/03/18 21:05	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		5	04/02/18 07:11	04/03/18 21:05	877-09-8	
Decachlorobiphenyl (S)	108	%	60-140		5	04/02/18 07:11	04/03/18 21:05	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:27		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.73**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-04 **Lab ID: 40157822017** Collected: 06/16/17 10:57 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.9**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 21:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.9**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 21:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.9**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 21:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.9**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 21:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**208**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 21:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**257**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 21:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**283**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 21:53	11096-82-5	
PCB, Total	**748**	ug/kg	100	22.9	2	04/02/18 07:11	04/03/18 21:53	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		2	04/02/18 07:11	04/03/18 21:53	877-09-8	
Decachlorobiphenyl (S)	104	%	60-140		2	04/02/18 07:11	04/03/18 21:53	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:27		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.46**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-03 **Lab ID: 40157822018** Collected: 06/16/17 10:56 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 22:41	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 22:41	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 22:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 22:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**163**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 22:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**139**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 22:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**144**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 22:41	11096-82-5	
PCB, Total	**446**	ug/kg	50.0	11.4	1	04/02/18 07:11	04/03/18 22:41	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		1	04/02/18 07:11	04/03/18 22:41	877-09-8	
Decachlorobiphenyl (S)	97	%	60-140		1	04/02/18 07:11	04/03/18 22:41	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:27		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.65**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-02 **Lab ID: 40157822019** Collected: 06/16/17 09:40 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.2**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 22:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<34.2**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 22:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 22:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 22:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**428**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 22:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**368**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 22:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**375**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 22:56	11096-82-5	
PCB, Total	**1170**	ug/kg	150	34.2	3	04/02/18 07:11	04/03/18 22:56	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	60-140		3	04/02/18 07:11	04/03/18 22:56	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		3	04/02/18 07:11	04/03/18 22:56	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:27		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.39**	%	0.030	0.030	1		04/03/18 06:29		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Sample: AT1-170616-01-SMB-01 **Lab ID: 40157822020** Collected: 06/16/17 09:38 Received: 10/03/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 23:12	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 23:12	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 23:12	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 23:12	53469-21-9	
PCB-1248 (Aroclor 1248)	**1450**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 23:12	12672-29-6	
PCB-1254 (Aroclor 1254)	**1200**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 23:12	11097-69-1	
PCB-1260 (Aroclor 1260)	**640**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 23:12	11096-82-5	
PCB, Total	**3290**	ug/kg	499	114	10	04/02/18 07:11	04/03/18 23:12	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		10	04/02/18 07:11	04/03/18 23:12	877-09-8	
Decachlorobiphenyl (S)	128	%	60-140		10	04/02/18 07:11	04/03/18 23:12	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:27		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		04/03/18 06:29		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

QC Batch: 284830 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157822001, 40157822002, 40157822003, 40157822004, 40157822005, 40157822006, 40157822007, 40157822008, 40157822009, 40157822010, 40157822011, 40157822012, 40157822013, 40157822014, 40157822015, 40157822016, 40157822017, 40157822018, 40157822019, 40157822020

METHOD BLANK: 1667509 | Matrix: Tissue
Associated Lab Samples: 40157822001, 40157822002, 40157822003, 40157822004, 40157822005, 40157822006, 40157822007, 40157822008, 40157822009, 40157822010, 40157822011, 40157822012, 40157822013, 40157822014, 40157822015, 40157822016, 40157822017, 40157822018, 40157822019, 40157822020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/03/18 16:04	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/03/18 16:04	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/03/18 16:04	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/03/18 16:04	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/03/18 16:04	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/03/18 16:04	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/03/18 16:04	
Decachlorobiphenyl (S)	%	87	60-140		04/03/18 16:04	
Tetrachloro-m-xylene (S)	%	71	60-140		04/03/18 16:04	

LABORATORY CONTROL SAMPLE: 1667510

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	219	88	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			92	60-140	
Tetrachloro-m-xylene (S)	%			80	60-140	

MATRIX SPIKE SAMPLE: 1667511

Parameter	Units	40157822017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.9		<22.7			
PCB-1221 (Aroclor 1221)	ug/kg	<22.9		<22.7			
PCB-1232 (Aroclor 1232)	ug/kg	<22.9		<22.7			
PCB-1242 (Aroclor 1242)	ug/kg	<22.9	249	281	113	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	208		386			
PCB-1254 (Aroclor 1254)	ug/kg	257		309			
PCB-1260 (Aroclor 1260)	ug/kg	283		308			
Decachlorobiphenyl (S)	%				107	60-140	
Tetrachloro-m-xylene (S)	%				92	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

SAMPLE DUPLICATE: 1667512

Parameter	Units	40157822017 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.9	<22.7		40	
PCB-1221 (Aroclor 1221)	ug/kg	<22.9	<22.7		40	
PCB-1232 (Aroclor 1232)	ug/kg	<22.9	<22.7		40	
PCB-1242 (Aroclor 1242)	ug/kg	<22.9	<22.7		40	
PCB-1248 (Aroclor 1248)	ug/kg	208	221	6	40	
PCB-1254 (Aroclor 1254)	ug/kg	257	266	4	40	
PCB-1260 (Aroclor 1260)	ug/kg	283	289	2	40	
Decachlorobiphenyl (S)	%	104	103	1		
Tetrachloro-m-xylene (S)	%	88	88	0		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

QC Batch: 284968 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157822001, 40157822002, 40157822003, 40157822004, 40157822005, 40157822006, 40157822007, 40157822008, 40157822009, 40157822010, 40157822011, 40157822012, 40157822013, 40157822014, 40157822015, 40157822016, 40157822017, 40157822018, 40157822019, 40157822020

METHOD BLANK: 1667980 | Matrix: Tissue
Associated Lab Samples: 40157822001, 40157822002, 40157822003, 40157822004, 40157822005, 40157822006, 40157822007, 40157822008, 40157822009, 40157822010, 40157822011, 40157822012, 40157822013, 40157822014, 40157822015, 40157822016, 40157822017, 40157822018, 40157822019, 40157822020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/03/18 06:29	

MATRIX SPIKE SAMPLE: 1682597

Parameter	Units	40157822017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.46		0.30			

SAMPLE DUPLICATE: 1667983

Parameter	Units	40157822017 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.46	0.39	16	40	

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QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

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.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157822001	**AT1-170616-01-SMB-20**	EPA 3541	284830	EPA 8082A Mod	284984
40157822002	**AT1-170616-01-SMB-19**	EPA 3541	284830	EPA 8082A Mod	284984
40157822003	**AT1-170616-01-SMB-18**	EPA 3541	284830	EPA 8082A Mod	284984
40157822004	**AT1-170616-01-SMB-17**	EPA 3541	284830	EPA 8082A Mod	284984
40157822005	**AT1-170616-01-SMB-16**	EPA 3541	284830	EPA 8082A Mod	284984
40157822006	**AT1-170616-01-SMB-15**	EPA 3541	284830	EPA 8082A Mod	284984
40157822007	**AT1-170616-01-SMB-14**	EPA 3541	284830	EPA 8082A Mod	284984
40157822008	**AT1-170616-01-SMB-13**	EPA 3541	284830	EPA 8082A Mod	284984
40157822009	**AT1-170616-01-SMB-12**	EPA 3541	284830	EPA 8082A Mod	284984
40157822010	**AT1-170616-01-SMB-11**	EPA 3541	284830	EPA 8082A Mod	284984
40157822011	**AT1-170616-01-SMB-10**	EPA 3541	284830	EPA 8082A Mod	284984
40157822012	**AT1-170616-01-SMB-09**	EPA 3541	284830	EPA 8082A Mod	284984
40157822013	**AT1-170616-01-SMB-08**	EPA 3541	284830	EPA 8082A Mod	284984
40157822014	**AT1-170616-01-SMB-07**	EPA 3541	284830	EPA 8082A Mod	284984
40157822015	**AT1-170616-01-SMB-06**	EPA 3541	284830	EPA 8082A Mod	284984
40157822016	**AT1-170616-01-SMB-05**	EPA 3541	284830	EPA 8082A Mod	284984
40157822017	**AT1-170616-01-SMB-04**	EPA 3541	284830	EPA 8082A Mod	284984
40157822018	**AT1-170616-01-SMB-03**	EPA 3541	284830	EPA 8082A Mod	284984
40157822019	**AT1-170616-01-SMB-02**	EPA 3541	284830	EPA 8082A Mod	284984
40157822020	**AT1-170616-01-SMB-01**	EPA 3541	284830	EPA 8082A Mod	284984
40157822001	**AT1-170616-01-SMB-20**	Pace Gender Typing	284786		
40157822002	**AT1-170616-01-SMB-19**	Pace Gender Typing	284786		
40157822003	**AT1-170616-01-SMB-18**	Pace Gender Typing	284786		
40157822004	**AT1-170616-01-SMB-17**	Pace Gender Typing	284786		
40157822005	**AT1-170616-01-SMB-16**	Pace Gender Typing	284786		
40157822006	**AT1-170616-01-SMB-15**	Pace Gender Typing	284786		
40157822007	**AT1-170616-01-SMB-14**	Pace Gender Typing	284786		
40157822008	**AT1-170616-01-SMB-13**	Pace Gender Typing	284786		
40157822009	**AT1-170616-01-SMB-12**	Pace Gender Typing	284786		
40157822010	**AT1-170616-01-SMB-11**	Pace Gender Typing	284786		
40157822011	**AT1-170616-01-SMB-10**	Pace Gender Typing	284786		
40157822012	**AT1-170616-01-SMB-09**	Pace Gender Typing	284786		
40157822013	**AT1-170616-01-SMB-08**	Pace Gender Typing	284786		
40157822014	**AT1-170616-01-SMB-07**	Pace Gender Typing	284786		
40157822015	**AT1-170616-01-SMB-06**	Pace Gender Typing	284786		
40157822016	**AT1-170616-01-SMB-05**	Pace Gender Typing	284786		
40157822017	**AT1-170616-01-SMB-04**	Pace Gender Typing	284786		
40157822018	**AT1-170616-01-SMB-03**	Pace Gender Typing	284786		
40157822019	**AT1-170616-01-SMB-02**	Pace Gender Typing	284786		
40157822020	**AT1-170616-01-SMB-01**	Pace Gender Typing	284786		
40157822001	**AT1-170616-01-SMB-20**	Pace Lipid	284968		
40157822002	**AT1-170616-01-SMB-19**	Pace Lipid	284968		
40157822003	**AT1-170616-01-SMB-18**	Pace Lipid	284968		
40157822004	**AT1-170616-01-SMB-17**	Pace Lipid	284968		
40157822005	**AT1-170616-01-SMB-16**	Pace Lipid	284968		
40157822006	**AT1-170616-01-SMB-15**	Pace Lipid	284968		
40157822007	**AT1-170616-01-SMB-14**	Pace Lipid	284968		
40157822008	**AT1-170616-01-SMB-13**	Pace Lipid	284968		

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157822009	**AT1-170616-01-SMB-12**	Pace Lipid	284968		
40157822010	**AT1-170616-01-SMB-11**	Pace Lipid	284968		
40157822011	**AT1-170616-01-SMB-10**	Pace Lipid	284968		
40157822012	**AT1-170616-01-SMB-09**	Pace Lipid	284968		
40157822013	**AT1-170616-01-SMB-08**	Pace Lipid	284968		
40157822014	**AT1-170616-01-SMB-07**	Pace Lipid	284968		
40157822015	**AT1-170616-01-SMB-06**	Pace Lipid	284968		
40157822016	**AT1-170616-01-SMB-05**	Pace Lipid	284968		
40157822017	**AT1-170616-01-SMB-04**	Pace Lipid	284968		
40157822018	**AT1-170616-01-SMB-03**	Pace Lipid	284968		
40157822019	**AT1-170616-01-SMB-02**	Pace Lipid	284968		
40157822020	**AT1-170616-01-SMB-01**	Pace Lipid	284968		

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SSM 40157822

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170616-T11-02
Sample Custodian: MCS
Lab: Pace - Green Bay

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

OK 10-3-17

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	AT1-170616-01	AT1-170616-01-SMB-20	6/16/2017	14:32	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziploc A
002	AT1-170616-01	AT1-170616-01-SMB-19	6/16/2017	14:30	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	AT1-170616-01	AT1-170616-01-SMB-18	6/16/2017	14:28	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	AT1-170616-01	AT1-170616-01-SMB-17	6/16/2017	14:25	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	AT1-170616-01	AT1-170616-01-SMB-16	6/16/2017	14:23	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
006	AT1-170616-01	AT1-170616-01-SMB-15	6/16/2017	14:21	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
007	AT1-170616-01	AT1-170616-01-SMB-14	6/16/2017	14:18	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
008	AT1-170616-01	AT1-170616-01-SMB-13	6/16/2017	14:16	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
009	AT1-170616-01	AT1-170616-01-SMB-12	6/16/2017	14:14	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
010	AT1-170616-01	AT1-170616-01-SMB-11	6/16/2017	14:12	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature VIA FED EX →	Signature	Signature	Signature
Print Name	Print Name N. Bittle	Print Name N. Bittle	Print Name	Print Name Susan Wylie	Print Name
Company	Company PACE T: 3.8, 4.0	Company PACE	Company Fed Ex	Company Pace	Company
Date/Time 6/16/17 15:20	Date/Time 6/16/17 15:20	Date/Time 10/2/17 16:00	Date/Time 10/3/17 1020	Date/Time 10/3/17 1020	Date/Time

Date Printed: 6/16/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY

40157822

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170616-T11-02
Sample Custodian: MCS
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

OK 10-3-17 AW

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	AT1-170616-01	AT1-170616-01-SMB-10	6/16/2017	14:11	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziploc A
012	AT1-170616-01	AT1-170616-01-SMB-09	6/16/2017	12:52	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	AT1-170616-01	AT1-170616-01-SMB-08	6/16/2017	12:49	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	AT1-170616-01	AT1-170616-01-SMB-07	6/16/2017	12:46	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	AT1-170616-01	AT1-170616-01-SMB-06	6/16/2017	12:44	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
016	AT1-170616-01	AT1-170616-01-SMB-05	6/16/2017	12:42	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
017	AT1-170616-01	AT1-170616-01-SMB-04	6/16/2017	10:57	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
018	AT1-170616-01	AT1-170616-01-SMB-03	6/16/2017	10:56	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
019	AT1-170616-01	AT1-170616-01-SMB-02	6/16/2017	9:40	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
020	AT1-170616-01	AT1-170616-01-SMB-01	6/16/2017	9:38	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name R. Gaston	Print Name A. Bittle	Print Name A. Bittle via FED EX	Print Name	Print Name Susan K. Hyde	Print Name
Company	Company PACE T: 3.8, 4.0	Company PACE	Company	Company	Company
Date/Time 6/16/17 15:20	Date/Time 6/16/17 15:20	Date/Time 10/2/17 16:00	Date/Time 10/3/17 1020	Date/Time 10/3/17 1020	Date/Time

Date Printed: 6/16/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY

40157822

Pace Analytical™

Sample Condition Upon Receipt

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

Project #: **WO# : 40157822**

40157822

Client Name: General Electric

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

Tracking #: 4099 9470 4700

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

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

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

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

Cooler Temperature Uncorr: 2.1,0,0 /Corr: 2.1,0,0 **Biological Tissue is Frozen:** ☒ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 10-3-17
Initials: SKW

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Tracking # 4099 9470 4696
4099 9470 4685
4099 9470 4711

10-3-17 SKW

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

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40157822
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

Samples were received on ice at or below 2°C. Following homogenization, tissue samples were kept frozen at less than -10°C until time of preparation for analysis.

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

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

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

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

D. Spikes:
1. **Lab Control Spike (LCS):** The control spike was fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Sample AT1-170616-01-SMB-04 was designated as the parent sample for the MS for this SDG and one portion of the sample was fortified with Aroclor 1242. The MS required a 1:2 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were met.

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

F. Sample Duplicate: Sample AT1-170616-01-SMB-04 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: All samples with the exception of AT1-170616-01-SMB-12 and AT1-170616-01-SMB-03 were analyzed at a dilution to bring the level of Aroclors within the calibration range of the instrument.

H. Reanalysis: None required for this SDG.

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

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

Signed: Leigh A Begalske Date: 05/04/18

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.: 40157822 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1667509	1667509BLANK	87	71
1667510	1667510LCS	92	80
1667511	1667511MS	107	92
1667512	1667512DUP	103	88
40157822001	AT1-170616-01-SMB-20	117	92
40157822002	AT1-170616-01-SMB-19	121	98
40157822003	AT1-170616-01-SMB-18	114	103
40157822004	AT1-170616-01-SMB-17	99	83
40157822005	AT1-170616-01-SMB-16	108	90
40157822006	AT1-170616-01-SMB-15	116	96
40157822007	AT1-170616-01-SMB-14	96	79
40157822008	AT1-170616-01-SMB-13	115	87
40157822009	AT1-170616-01-SMB-12	94	87
40157822010	AT1-170616-01-SMB-11	102	85
40157822011	AT1-170616-01-SMB-10	138	105
40157822012	AT1-170616-01-SMB-09	134	102
40157822013	AT1-170616-01-SMB-08	103	89
40157822014	AT1-170616-01-SMB-07	123	100
40157822015	AT1-170616-01-SMB-06	115	98
40157822016	AT1-170616-01-SMB-05	108	90
40157822017	AT1-170616-01-SMB-04	104	88
40157822018	AT1-170616-01-SMB-03	97	88
40157822019	AT1-170616-01-SMB-02	101	83
40157822020	AT1-170616-01-SMB-01	128	96

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

* Values outside of QC Limits

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/02/2018

Instrument: 40GCSJ

Lab File ID: 040318.B\040318009.D

Lab Sample ID: 1667510LCS

Date Analyzed (1): 04/03/2018

LCS Lot No: 192096

SDG No.: 40157822

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	219	88	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/02/2018

Instrument: 40GCSJ

Parent Sample ID: AT1-170616-01-SMB-04

Matrix Spike - Sample No: 1667511MS

Date Analyzed (1): 04/03/2018

Lab File ID: 040318.B\040318031.D

SDG No.: 40157822

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	249	<22.9	281	113	70-130

Spike Recovery: 0 out of 1 outside limits.

05/03/2018 2:52

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/02/2018

Instrument 40GCSJ

Lab Sample ID: AT1-170616-01-SMB-04

Duplicate Sample No: 40157822017DUP

Date Analyzed: 04/03/2018

Lab File ID: 040318.B\040318032.D

SDG No.: 40157822

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<22.9	<22.7		0-40
PCB-1221 (Aroclor 1221)	<22.9	<22.7		0-40
PCB-1232 (Aroclor 1232)	<22.9	<22.7		0-40
PCB-1242 (Aroclor 1242)	<22.9	<22.7		0-40
PCB-1248 (Aroclor 1248)	208	221	6	0-40
PCB-1254 (Aroclor 1254)	257	266	4	0-40
PCB-1260 (Aroclor 1260)	283	289	2	0-40

RPD: 0 out of 3 outside limits.

SAMPLE NO.

1667509BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157822 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1667509

Lab File ID: 040318.B\040318008.D Date Analyzed: 04/03/2018 Time:16:04

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1667510LCS	1667510	040318.B\040318009.D	04/03/2018 16:20
AT1-170616-01-SMB-20	40157822001	040318.B\040318010.D	04/03/2018 16:36
AT1-170616-01-SMB-19	40157822002	040318.B\040318011.D	04/03/2018 16:52
AT1-170616-01-SMB-18	40157822003	040318.B\040318012.D	04/03/2018 17:08
AT1-170616-01-SMB-17	40157822004	040318.B\040318013.D	04/03/2018 17:23
AT1-170616-01-SMB-16	40157822005	040318.B\040318014.D	04/03/2018 17:39
AT1-170616-01-SMB-15	40157822006	040318.B\040318015.D	04/03/2018 17:55
AT1-170616-01-SMB-14	40157822007	040318.B\040318018.D	04/03/2018 18:43
AT1-170616-01-SMB-13	40157822008	040318.B\040318019.D	04/03/2018 18:59
AT1-170616-01-SMB-12	40157822009	040318.B\040318020.D	04/03/2018 19:14
AT1-170616-01-SMB-11	40157822010	040318.B\040318021.D	04/03/2018 19:30
AT1-170616-01-SMB-10	40157822011	040318.B\040318022.D	04/03/2018 19:46
AT1-170616-01-SMB-09	40157822012	040318.B\040318023.D	04/03/2018 20:02
AT1-170616-01-SMB-08	40157822013	040318.B\040318024.D	04/03/2018 20:18
AT1-170616-01-SMB-07	40157822014	040318.B\040318025.D	04/03/2018 20:34
AT1-170616-01-SMB-06	40157822015	040318.B\040318026.D	04/03/2018 20:50
AT1-170616-01-SMB-05	40157822016	040318.B\040318027.D	04/03/2018 21:05
AT1-170616-01-SMB-04	40157822017	040318.B\040318030.D	04/03/2018 21:53
1667511MS	1667511	040318.B\040318031.D	04/03/2018 22:09
1667512DUP	1667512	040318.B\040318032.D	04/03/2018 22:25
AT1-170616-01-SMB-03	40157822018	040318.B\040318033.D	04/03/2018 22:41
AT1-170616-01-SMB-02	40157822019	040318.B\040318034.D	04/03/2018 22:56
AT1-170616-01-SMB-01	40157822020	040318.B\040318035.D	04/03/2018 23:12

SAMPLE NO.

AT1-170616-01-SMB-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: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822001
Date Analyzed: 04/03/2018 16:36
Lab File ID: 040318.B\040318010.D
Initial wt/vol: 10.0058 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)	1150	
11097-69-1	PCB-1254 (Aroclor 1254)	999	
11096-82-5	PCB-1260 (Aroclor 1260)	1030	
1336-36-3	PCB, Total	3180	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318010.D
Lab Smp Id: 40157822001 Client Smp ID: AT1-170616-01-SMB-2
Inj Date : 03-APR-2018 16:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822001 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
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	10.006	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.409	31505	23845	0.757	0.07		
2.485	1131649	1095115	0.968	2.51	$ 2 Tetrachloro-m-xylene	
2.853	19676	15942	0.810	0.04		
2.971	18731	12235	0.653	0.04		
3.021	10924	8605	0.788	0.02		
3.055	44921	38324	0.853	0.09		
3.318	73831	74553	1.010	0.16		
3.344	105714	95039	0.899	0.23		
3.434	69049	60237	0.872	0.15		
3.519	115869	99277	0.857	0.25		
3.646	12668	11256	0.889	0.02		
3.731	130239	129443	0.994	0.28		
3.755	58653	55887	0.953	0.13		
3.814	478678	278975	0.583	1.06		
3.938	162459	134423	0.827	0.36		
3.995	106105	93960	0.886	0.23		
4.058	71557	59668	0.834	0.15		
4.135	27765	22277	0.802	0.06		
4.215	936502	861085	0.919	2.08		
4.262	1120918	1050717	0.937	2.49	6 Aroclor 1248	BA
4.293	1192240	983835	0.825	2.65		
4.417	328488	308220	0.938	0.73		
4.453	259876	239590	0.922	0.57		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.545	661475	617835	0.934	1.47	6 Aroclor 1248
4.588	84740	76923	0.908	0.18	
4.618	94511	85183	0.901	0.21	
4.680	99610	87614	0.880	0.22	
4.737	131138	110131	0.840	0.29	
4.767	143711	133399	0.928	0.31	
4.813	356804	328795	0.921	0.79	6 Aroclor 1248
4.848	264464	248363	0.939	0.58	
4.895	1385839	885482	0.639	3.08	6 Aroclor 1248
4.956	457532	405164	0.886	1.01	
5.037	211561	187135	0.885	0.47	6 Aroclor 1248
5.058	22403	35271	1.574	0.04	
5.101	938832	798553	0.851	2.08	
5.161	1477535	1304063	0.883	3.28	7 Aroclor 1254
5.212	1233700	1079692	0.875	2.74	
5.283	176345	161863	0.918	0.39	
5.309	331041	280188	0.846	0.73	
5.363	371313	344542	0.928	0.82	
5.407	728808	644393	0.884	1.62	7 Aroclor 1254
5.451	1911265	1807188	0.946	4.25	
5.476	188060	183564	0.976	0.41	
5.510	1489749	1296575	0.870	3.31	7 Aroclor 1254
5.577	171589	152138	0.887	0.38	
5.605	137457	118042	0.859	0.30	
5.675	702322	672918	0.958	1.56	
5.709	403958	319626	0.791	0.89	
5.743	429959	325729	0.758	0.95	
5.789	2408417	1782051	0.740	5.35	
5.885	262686	174455	0.664	0.58	
5.931	219037	188536	0.861	0.48	
5.994	814341	772566	0.949	1.81	
6.027	759487	698093	0.919	1.68	7 Aroclor 1254
6.056	2849940	2427798	0.852	6.33	
6.169	628504	417665	0.665	1.39	
6.228	188714	193648	1.026	0.41	
6.243	273141	225619	0.826	0.60	
6.300	3161035	2541478	0.804	7.54	8 Aroclor 1260
6.333	309475	294720	0.952	0.68	
6.374	121565	95607	0.786	0.27	
6.431	357866	286377	0.800	0.79	
6.510	1388128	1227718	0.884	3.08	
6.536	516436	482776	0.935	1.14	
6.561	516129	462675	0.896	1.14	
6.606	98371	82809	0.842	0.21	
6.662	90149	82483	0.915	0.20	
6.718	394255	343177	0.870	0.87	
6.758	321760	278084	0.864	0.71	
6.802	446973	402639	0.901	0.99	
6.839	214781	168566	0.785	0.47	
6.915	51336	52541	1.023	0.11	
6.944	654246	584199	0.893	1.45	
7.004	1743129	1500558	0.861	3.87	8 Aroclor 1260
7.035	108892	129647	1.191	0.24	
7.121	37641	21882	0.581	0.08	
7.252	702136	620652	0.884	1.56	8 Aroclor 1260
7.281	198746	164800	0.829	0.44	
7.390	524108	450640	0.860	1.16	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.443	597066	535610	0.897	1.32	8 Aroclor 1260
7.494	22952	17371	0.757	0.05	
7.552	30639	23599	0.770	0.06	
7.692	138879	132393	0.953	0.30	
7.726	110282	96155	0.872	0.24	
7.764	24301	22362	0.920	0.05	
7.812	217028	166001	0.765	0.48	
7.859	12543	12367	0.986	0.02	
7.901	391102	340589	0.871	0.86	8 Aroclor 1260
7.958	49199	31899	0.648	0.10	
8.051	58095	50158	0.863	0.12	
8.275	331664	291693	0.879	0.73	
8.377	13972	10393	0.744	0.03	
8.572	1281429	1073139	0.837	2.85	$ 12 Decachlorobiphenyl
8.705	14134	13470	0.953	0.03	
8.727	75975	60149	0.792	0.16	
8.935	9926	6603	0.665	0.02	
9.057	13653	12531	0.918	0.03	
9.169	56277	49052	0.872	0.12	
9.468	20810	13449	0.646	0.04	
9.742	15868	14700	0.926	0.03	
	44960953	38571019		100.000	

Total unknown % area = 61

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318010.D
Lab Smp Id: 40157822001 Client Smp ID: AT1-170616-01-SMB-2
Inj Date : 03-APR-2018 16:36
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822001 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10
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	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

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

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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.484	2.484	0.000	1131648	0.00918	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)	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	1120917	0.47842	2400	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	661475	0.15938	800	0.00- 20.00	59.01	BA
4.812	4.812	0.000	356804	0.17576	880	0.00- 20.00	31.83	BA
4.894	4.879	0.015	1385839	0.27511	1400	0.00- 20.00	123.63	BA
5.036	5.038	-0.002	211561	0.05895	290	0.00- 20.00	18.87	BA
			Average of Peak Concentrations =		1100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1477534	0.28223	1400	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	728807	0.16945	850	0.00- 20.00	49.33	BA
5.510	5.510	0.000	1489748	0.19183	960	0.00- 20.00	100.83	BA
6.026	6.027	-0.001	759486	0.15596	780	0.00- 20.00	51.40	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		1000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	3161034	0.35668	1800	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1743128	0.17406	870	0.00- 20.00	55.14	BA
7.251	7.251	0.000	702135	0.14690	730	0.00- 20.00	22.21	BA
7.442	7.443	-0.001	597065	0.20482	1000	0.00- 20.00	18.89	BA
7.900	7.901	-0.001	391102	0.14822	740	0.00- 20.00	12.37	BA
			Average of Peak Concentrations =		1000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	1281429	0.01170	58			

QC Flag Legend

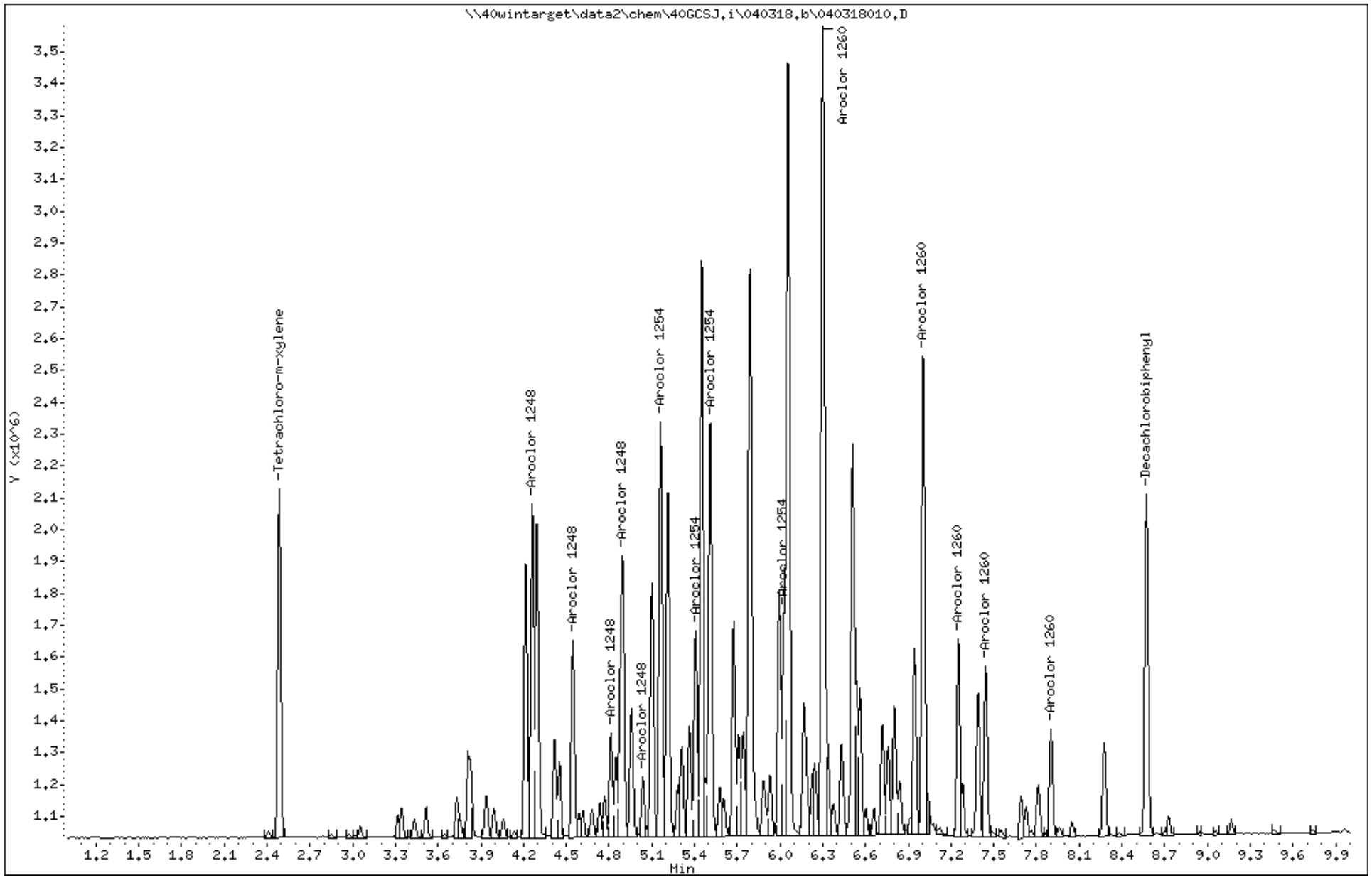
M - Compound response manually integrated.

Review Codes Legend

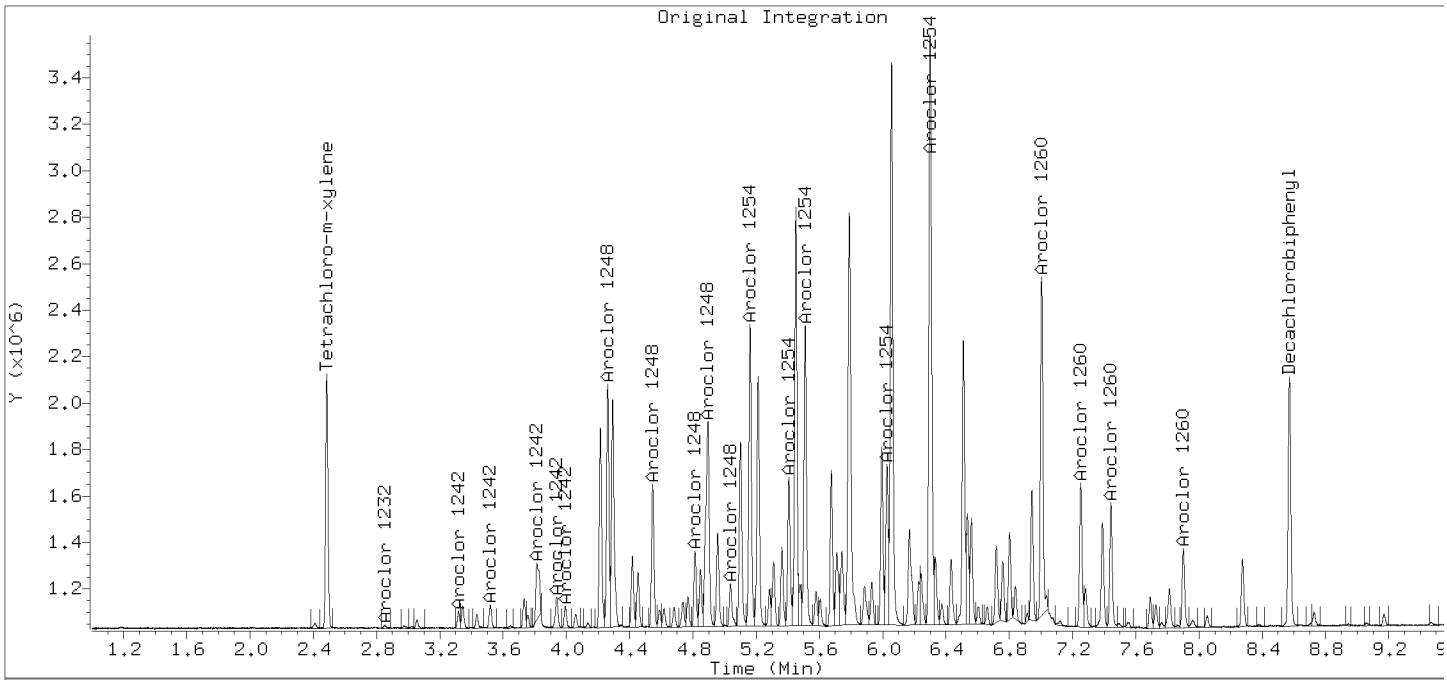
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

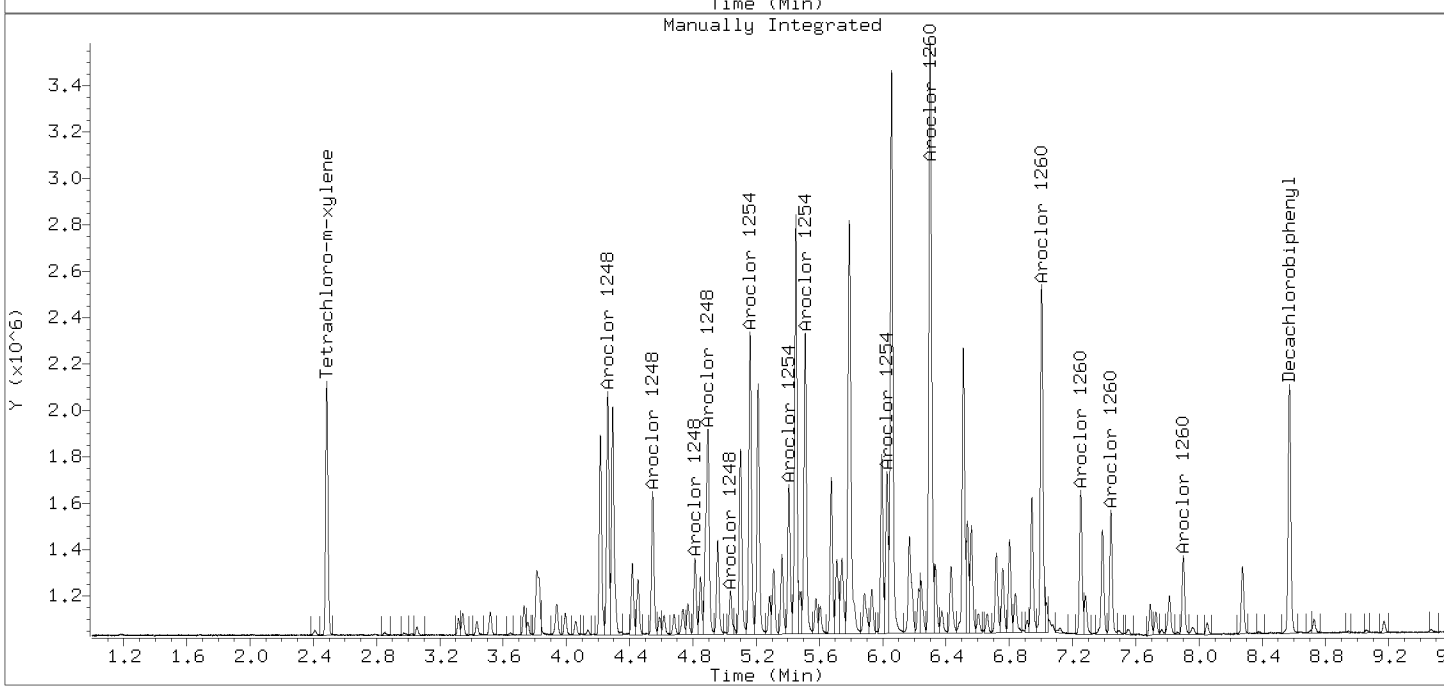
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318010.D
Date : 03-APR-2018 16:36
Client ID: AT1-170616-01-SMB-2
Sample Info: 40157822001 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 16:36 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	73831	0	
Aroclor 1016	73831	0	
Aroclor 1016	73831	0	
Aroclor 1016	73831	0	
Aroclor 1016	73831	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	19675	0	
Aroclor 1232	19675	0	
Aroclor 1232	19675	0	
Aroclor 1232	19675	0	

Aroclor 1232	19675	0	
Aroclor 1242	73831	0	
Aroclor 1242	73831	0	
Aroclor 1242	73831	0	
Aroclor 1242	73831	0	
Aroclor 1242	73831	0	
Aroclor 1248	1110653	1120917	BA
Aroclor 1248	1110653	1120917	BA
Aroclor 1248	1110653	1120917	BA
Aroclor 1248	1110653	1120917	BA
Aroclor 1248	1110653	1120917	BA
Aroclor 1254	1463593	1477534	BA
Aroclor 1254	1463593	1477534	BA
Aroclor 1254	1463593	1477534	BA
Aroclor 1254	1463593	1477534	BA
Aroclor 1254	1463593	1477534	BA
Aroclor 1260	3138706	3161034	BA
Aroclor 1260	3138706	3161034	BA
Aroclor 1260	3138706	3161034	BA
Aroclor 1260	3138706	3161034	BA
Aroclor 1260	3138706	3161034	BA
Tetrachloro-m-xylene	1131648	1131648	
Decachlorobiphenyl	1281429	1281429	

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SAMPLE NO.

AT1-170616-01-SMB-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: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822002
Date Analyzed: 04/03/2018 16:52
Lab File ID: 040318.B\040318011.D
Initial wt/vol: 9.9661 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)	1910	
11097-69-1	PCB-1254 (Aroclor 1254)	1290	
11096-82-5	PCB-1260 (Aroclor 1260)	667	
1336-36-3	PCB, Total	3870	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318011.D
Lab Smp Id: 40157822002 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 16:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822002 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
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	9.966	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	59044	47332	0.802	0.11		
2.485	1213722	1147790	0.946	2.46	$ 2 Tetrachloro-m-xylene	
2.794	13949	10393	0.745	0.02		
2.853	38174	30303	0.794	0.07		
2.974	37380	28846	0.772	0.07		
3.021	18845	16353	0.868	0.03		
3.056	99700	90831	0.911	0.20		
3.317	141972	143244	1.009	0.28		
3.344	236567	215951	0.913	0.48		
3.435	201373	183700	0.912	0.40		
3.520	308003	285952	0.928	0.62		
3.646	34326	26512	0.772	0.06		
3.733	304003	290965	0.957	0.61		
3.756	128660	125306	0.974	0.26		
3.814	1097104	630601	0.575	2.22		
3.939	365625	297457	0.814	0.74		
3.993	247864	221480	0.894	0.50		
4.058	142081	128614	0.905	0.28		
4.138	59346	48620	0.819	0.12		
4.215	1610420	1457007	0.905	3.26		
4.262	1909792	1820382	0.953	3.87	6 Aroclor 1248	BA
4.292	1975808	1606667	0.813	4.01		
4.349	30534	24499	0.802	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.418	644798	600141	0.931	1.30	
4.453	504464	461256	0.914	1.02	
4.546	1295826	1173317	0.905	2.63	6 Aroclor 1248
4.589	128563	121121	0.942	0.26	
4.616	193458	170137	0.879	0.39	
4.681	134499	115779	0.861	0.27	
4.737	170351	139757	0.820	0.34	
4.768	214820	197111	0.918	0.43	
4.814	553400	516137	0.933	1.12	6 Aroclor 1248
4.848	533530	494536	0.927	1.08	
4.895	1956857	1235063	0.631	3.97	6 Aroclor 1248
4.957	586074	532233	0.908	1.18	
5.038	417646	347447	0.832	0.84	6 Aroclor 1248
5.100	1156604	980200	0.847	2.34	
5.162	1552487	1329855	0.857	3.15	7 Aroclor 1254
5.213	1253291	1096349	0.875	2.54	
5.285	178479	165289	0.926	0.36	
5.311	403620	342439	0.848	0.81	
5.363	439991	407587	0.926	0.89	
5.407	849366	750265	0.883	1.72	7 Aroclor 1254
5.451	1693097	1553201	0.917	3.43	
5.479	198748	199048	1.002	0.40	
5.510	1808375	1505937	0.833	3.67	7 Aroclor 1254
5.577	144331	133940	0.928	0.29	
5.603	198591	163089	0.821	0.40	
5.675	640113	608156	0.950	1.29	
5.710	396308	307609	0.776	0.80	
5.743	401031	295739	0.737	0.81	
5.788	2112830	1610095	0.762	4.28	
5.821	140083	153619	1.097	0.28	
5.884	288713	180866	0.626	0.58	
5.931	210600	172559	0.819	0.42	
5.994	647772	623394	0.962	1.31	
6.027	789243	706914	0.896	1.60	7 Aroclor 1254
6.056	2210336	1903158	0.861	4.48	
6.169	530744	327687	0.617	1.07	
6.228	134702	147079	1.092	0.27	
6.243	253652	191052	0.753	0.51	
6.300	2589968	2063219	0.797	5.82	7 Aroclor 1254
6.334	278832	243033	0.872	0.56	
6.376	105565	85333	0.808	0.21	
6.432	314565	270238	0.859	0.63	
6.485	26584	36246	1.363	0.05	
6.510	1048374	977623	0.933	2.12	
6.535	454100	408501	0.900	0.92	
6.560	383925	343192	0.894	0.77	
6.605	82502	72620	0.880	0.16	
6.662	73358	68595	0.935	0.14	
6.718	336481	305727	0.909	0.68	
6.759	304793	260867	0.856	0.61	
6.803	351458	313180	0.891	0.71	
6.840	183367	144848	0.790	0.37	
6.914	42102	44246	1.051	0.08	
6.943	691781	628040	0.908	1.40	
7.004	1309765	1140895	0.871	2.65	8 Aroclor 1260
7.033	87506	99567	1.138	0.17	
7.120	36849	23800	0.646	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.253	537994	481882	0.896	1.09	8 Aroclor 1260
7.281	157194	133048	0.846	0.31	
7.390	429602	364756	0.849	0.87	
7.443	482044	427758	0.887	0.97	8 Aroclor 1260
7.494	22794	16423	0.721	0.04	
7.554	24936	21985	0.882	0.05	
7.692	109447	101165	0.924	0.22	
7.728	105675	94316	0.893	0.21	
7.763	23024	19336	0.840	0.04	
7.813	169645	127778	0.753	0.34	
7.858	12832	11292	0.880	0.02	
7.902	325790	277047	0.850	0.66	8 Aroclor 1260
7.961	46609	28113	0.603	0.09	
8.051	33851	24939	0.737	0.06	
8.275	305262	267206	0.875	0.61	
8.570	1323782	1111012	0.839	2.68	$ 12 Decachlorobiphenyl
8.705	10496	15796	1.505	0.02	
8.726	73615	50051	0.680	0.14	
9.056	24487	14217	0.581	0.04	
9.168	53708	42333	0.788	0.10	
9.741	24342	15107	0.621	0.04	
9.963	13242	10837	0.818	0.02	
	49253928	42024133		100.000	

Total unknown % area = 61

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318011.D
Lab Smp Id: 40157822002 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 16:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822002 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
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	9.966	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	1213721	0.00984	49			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			

Operator disabled compound identification.

6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1909792	0.81511	4100	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1295826	0.31222	1600	0.00- 20.00	67.85	BA
4.813	4.812	0.001	553400	0.27260	1400	0.00- 20.00	28.98	BA
4.894	4.879	0.015	1956857	0.38846	1900	0.00- 20.00	102.46	BA
5.037	5.038	-0.001	417645	0.11638	580	0.00- 20.00	21.87	BA
Average of Peak Concentrations =					1900			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1552486	0.29654	1500	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	849366	0.19748	990	0.00- 20.00	54.71	BA
5.510	5.510	0.000	1808375	0.23286	1200	0.00- 20.00	116.48	BA
6.027	6.027	0.000	789243	0.16207	810	0.00- 20.00	50.84	BA
6.300	6.299	0.001	2589968	0.39802	2000	0.00- 20.00	166.83	BA
Average of Peak Concentrations =					1300			
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	1309764	0.13079	660	0.00- 20.00	0.00	BA
7.252	7.251	0.001	537994	0.11256	560	0.00- 20.00	0.00	BA
7.442	7.443	-0.001	482044	0.16536	830	0.00- 20.00	0.00	BA
7.901	7.901	0.000	325790	0.12346	620	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					670			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	1323782	0.01208	61			

QC Flag Legend

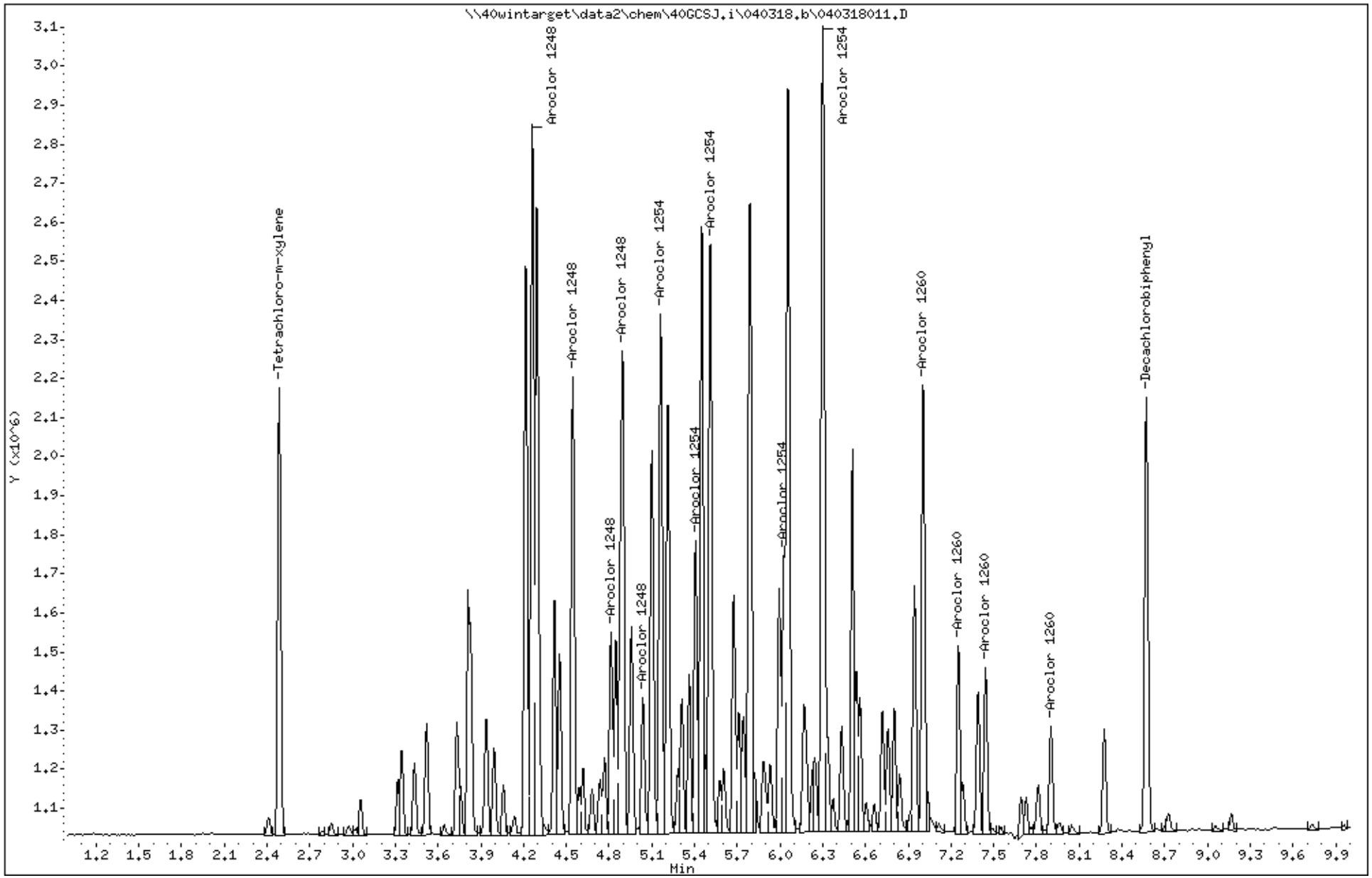
M - Compound response manually integrated.

Review Codes Legend

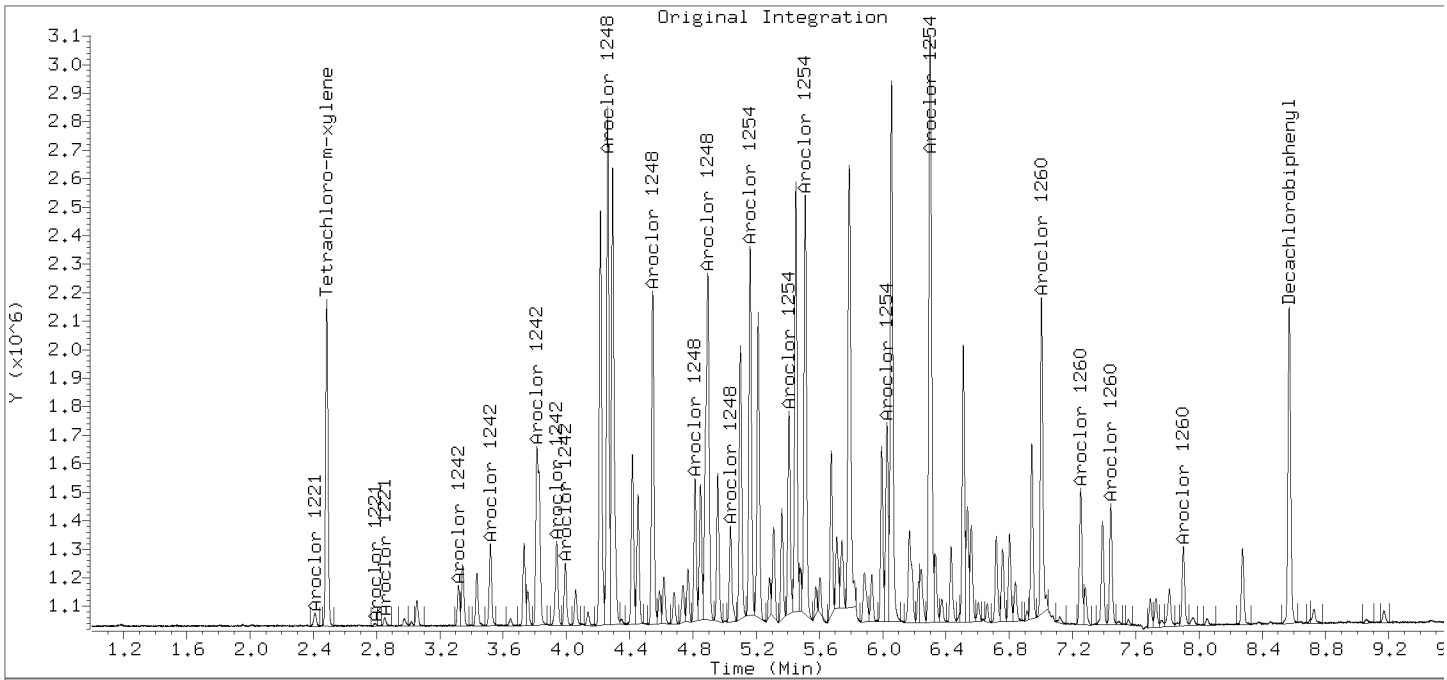
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

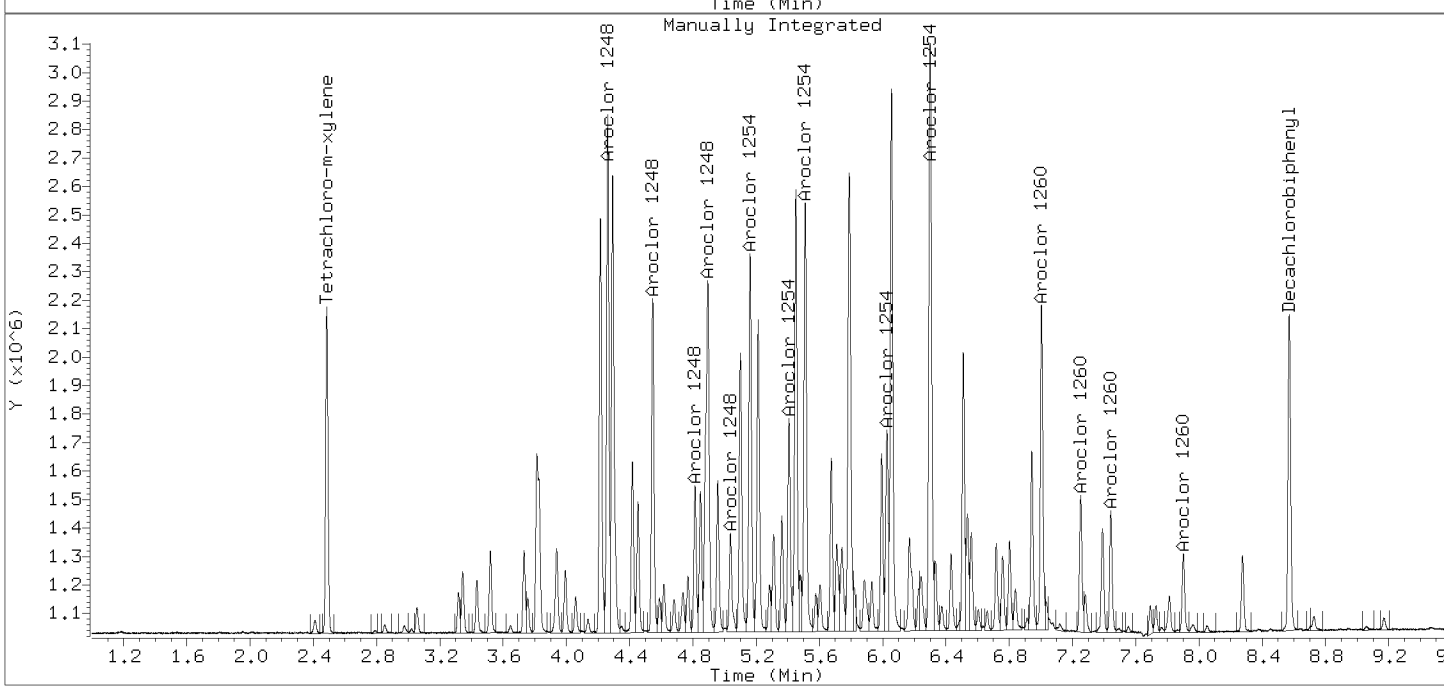
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318011.D
Date : 03-APR-2018 16:52
Client ID: AT1-170616-01-SMB-1
Sample Info: 40157822002 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 16:52 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	141972	0	
Aroclor 1016	141972	0	
Aroclor 1016	141972	0	
Aroclor 1016	141972	0	
Aroclor 1016	141972	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	38173	0	
Aroclor 1232	38173	0	
Aroclor 1232	38173	0	
Aroclor 1232	38173	0	

Aroclor 1232	38173	0	
Aroclor 1242	141972	0	
Aroclor 1242	141972	0	
Aroclor 1242	141972	0	
Aroclor 1242	141972	0	
Aroclor 1242	141972	0	
Aroclor 1248	1896708	1909792	BA
Aroclor 1248	1896708	1909792	BA
Aroclor 1248	1896708	1909792	BA
Aroclor 1248	1896708	1909792	BA
Aroclor 1248	1896708	1909792	BA
Aroclor 1254	1451434	1552486	BA
Aroclor 1254	1451434	1552486	BA
Aroclor 1254	1451434	1552486	BA
Aroclor 1254	1451434	1552486	BA
Aroclor 1254	1451434	1552486	BA
Aroclor 1260	2576195	0	BA
Aroclor 1260	2576195	0	BA
Aroclor 1260	2576195	0	BA
Aroclor 1260	2576195	0	BA
Aroclor 1260	2576195	0	BA
Tetrachloro-m-xylene	1213721	1213721	
Decachlorobiphenyl	1323782	1323782	

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SAMPLE NO.

AT1-170616-01-SMB-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: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822003
Date Analyzed: 04/03/2018 17:08
Lab File ID: 040318.B\040318012.D
Initial wt/vol: 10.0155 Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.5	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.5	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.5	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.5	U
12672-29-6	PCB-1248 (Aroclor 1248)	802	
11097-69-1	PCB-1254 (Aroclor 1254)	443	
11096-82-5	PCB-1260 (Aroclor 1260)	312	
1336-36-3	PCB, Total	1560	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318012.D
Lab Smp Id: 40157822003 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 17:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822003 x4,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
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	10.015	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.410	115419	92311	0.800	0.20		
2.485	3177641	2983361	0.939	6.33	$ 2 Tetrachloro-m-xylene	
2.791	28863	21444	0.743	0.05		
2.850	63730	54297	0.852	0.11		
2.975	53563	31613	0.590	0.09		
3.021	30848	27375	0.887	0.05		
3.055	155766	143654	0.922	0.28		
3.317	254742	250982	0.985	0.46		
3.344	362357	339645	0.937	0.65		
3.433	265678	238940	0.899	0.48		
3.520	365235	311094	0.852	0.66		
3.644	36495	29397	0.806	0.06		
3.732	371111	359617	0.969	0.67		
3.756	175115	173524	0.991	0.31		
3.814	1621361	920026	0.567	2.94		
3.938	365688	284592	0.778	0.66		
3.993	257274	231778	0.901	0.46		
4.060	169993	151438	0.891	0.30		
4.137	59641	53561	0.898	0.10		
4.215	1703622	1547199	0.908	3.09		
4.261	2111863	1992108	0.943	3.83	6 Aroclor 1248	BA
4.292	2030431	1643148	0.809	3.69		
4.351	32393	23280	0.719	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	729574	695454	0.953	1.32	
4.451	568976	510416	0.897	1.03	
4.545	1406685	1270630	0.903	2.55	6 Aroclor 1248
4.589	112817	103931	0.921	0.20	
4.617	226045	202306	0.895	0.41	
4.680	127465	111672	0.876	0.23	
4.737	160431	123493	0.770	0.29	
4.768	214811	196928	0.917	0.39	
4.813	542590	522354	0.963	0.98	6 Aroclor 1248
4.847	600801	560996	0.934	1.09	
4.894	1909689	1174609	0.615	3.47	6 Aroclor 1248
4.956	589271	522090	0.886	1.07	
5.002	18263	18937	1.037	0.03	
5.037	434303	366793	0.845	0.78	6 Aroclor 1248
5.101	1144526	976703	0.853	2.08	
5.161	1592624	1311774	0.824	2.89	7 Aroclor 1254
5.212	1289544	1106844	0.858	2.34	
5.284	174821	159544	0.913	0.31	
5.311	374243	315236	0.842	0.68	
5.363	416625	377023	0.905	0.75	
5.406	784170	729652	0.930	1.42	7 Aroclor 1254
5.450	1848258	1702247	0.921	3.35	
5.478	203841	197870	0.971	0.37	
5.510	1836745	1612713	0.878	3.33	7 Aroclor 1254
5.578	144818	131217	0.906	0.26	
5.604	171201	142302	0.831	0.31	
5.674	665451	606944	0.912	1.20	
5.710	405007	327918	0.810	0.73	
5.742	406771	312424	0.768	0.73	
5.788	2154291	1684534	0.782	3.91	
5.819	196385	174835	0.890	0.35	
5.884	283483	186533	0.658	0.51	
5.930	223136	186994	0.838	0.40	
5.994	688932	658343	0.956	1.25	
6.027	799033	690654	0.864	1.45	7 Aroclor 1254
6.056	2322597	1991554	0.857	4.22	
6.169	547022	328731	0.601	0.99	
6.227	130460	157473	1.207	0.23	
6.241	300361	223860	0.745	0.54	
6.300	2655606	2113626	0.796	4.82	8 Aroclor 1260
6.333	264605	233809	0.884	0.48	
6.373	103499	87185	0.842	0.18	
6.432	327241	268822	0.821	0.59	
6.483	28617	33330	1.165	0.05	
6.509	1033301	943008	0.913	1.87	
6.534	468324	441777	0.943	0.85	
6.561	377359	329338	0.873	0.68	
6.604	77003	63121	0.820	0.13	
6.661	70253	70717	1.007	0.12	
6.718	382521	348681	0.912	0.69	
6.758	390922	329545	0.843	0.71	
6.802	337854	294782	0.873	0.61	
6.839	180659	146822	0.813	0.32	
6.912	41016	43136	1.052	0.07	
6.944	405085	380378	0.939	0.73	
7.005	1222976	1106456	0.905	2.22	8 Aroclor 1260
7.034	84408	90586	1.073	0.15	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.121	38012	33539	0.882	0.06	
7.251	515959	444346	0.861	0.93	8 Aroclor 1260
7.282	164524	130986	0.796	0.29	
7.335	19382	14800	0.764	0.03	
7.389	393124	341095	0.868	0.71	
7.444	428542	366717	0.856	0.77	8 Aroclor 1260
7.552	20655	18989	0.919	0.03	
7.691	88863	85890	0.967	0.16	
7.728	116018	100254	0.864	0.21	
7.763	20577	19407	0.943	0.03	
7.813	151804	103499	0.682	0.27	
7.862	20018	16234	0.811	0.03	
7.900	275429	233815	0.849	0.50	8 Aroclor 1260
7.959	45533	24711	0.543	0.08	
8.050	127416	108507	0.852	0.23	
8.273	257427	232824	0.904	0.46	
8.377	17805	11973	0.672	0.03	
8.571	3111881	2737557	0.880	5.65	$ 12 Decachlorobiphenyl
8.705	12390	15648	1.263	0.02	
8.726	47169	38924	0.825	0.08	
8.942	10311	8705	0.844	0.01	
9.054	19940	16129	0.809	0.03	
9.171	42486	36826	0.867	0.07	
9.472	13932	10355	0.743	0.02	
9.738	32899	24430	0.743	0.05	
9.962	16465	12421	0.754	0.02	
	55014705	47092615		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318012.D
Lab Smp Id: 40157822003 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 17:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822003 x4,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
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	10.015	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	3177640	0.02577		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	2111862	0.90136	1800	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1406684	0.33894	680	0.00- 20.00	66.61	BA
4.813	4.812	0.001	542590	0.26728	530	0.00- 20.00	25.69	BA
4.893	4.879	0.014	1909689	0.37910	760	0.00- 20.00	90.43	BA
5.037	5.038	-0.001	434303	0.12102	240	0.00- 20.00	20.56	BA
			Average of Peak Concentrations =		800			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1592623	0.30421	610	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	784169	0.18232	360	0.00- 20.00	49.24	BA
5.510	5.510	0.000	1836744	0.23651	470	0.00- 20.00	115.33	BA
6.026	6.027	-0.001	799033	0.16408	330	0.00- 20.00	50.17	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		440			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	2655606	0.29965	600	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	1222976	0.12212	240	0.00- 20.00	46.05	CO
7.250	7.251	-0.001	515959	0.10795	220	0.00- 20.00	19.43	CO
7.443	7.443	0.000	428542	0.14701	290	0.00- 20.00	16.14	CO
7.899	7.901	-0.002	275429	0.10438	210	0.00- 20.00	10.37	CO
			Average of Peak Concentrations =		310			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	3111881	0.02840	57			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318012.D

Date : 03-APR-2018 17:08

Client ID: AT1-170616-01-SMB-1

Instrument: 40GCSJ.i

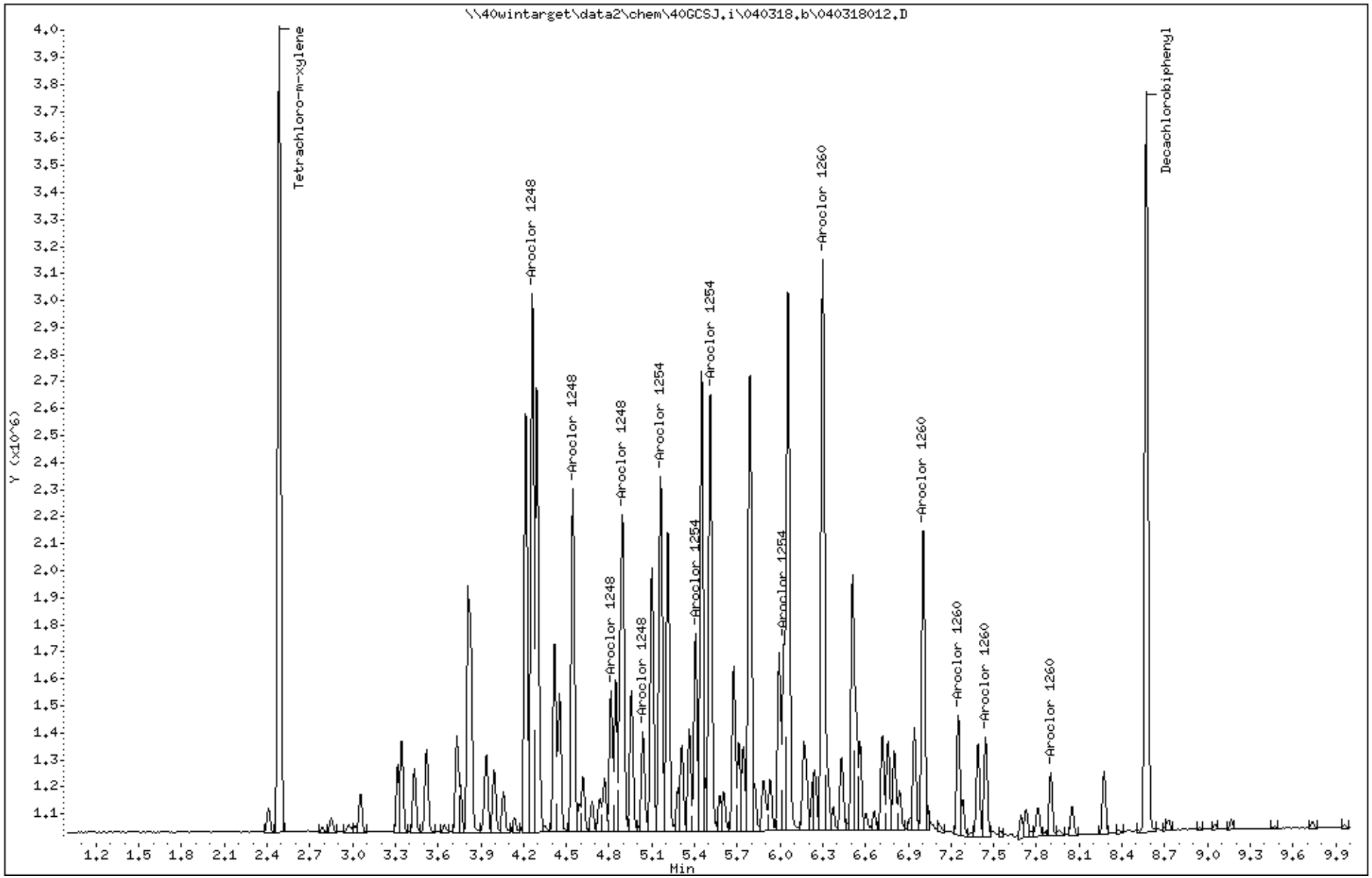
Sample Info: 40157822003 x4,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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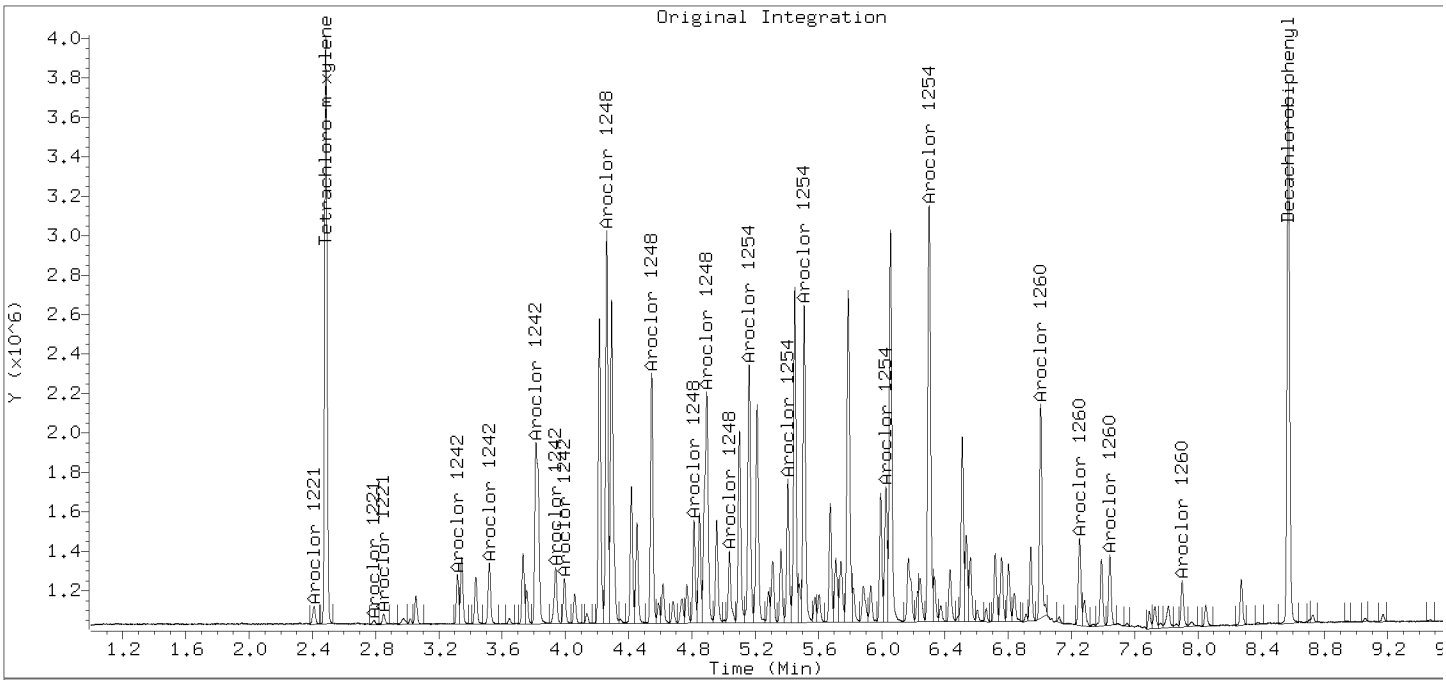
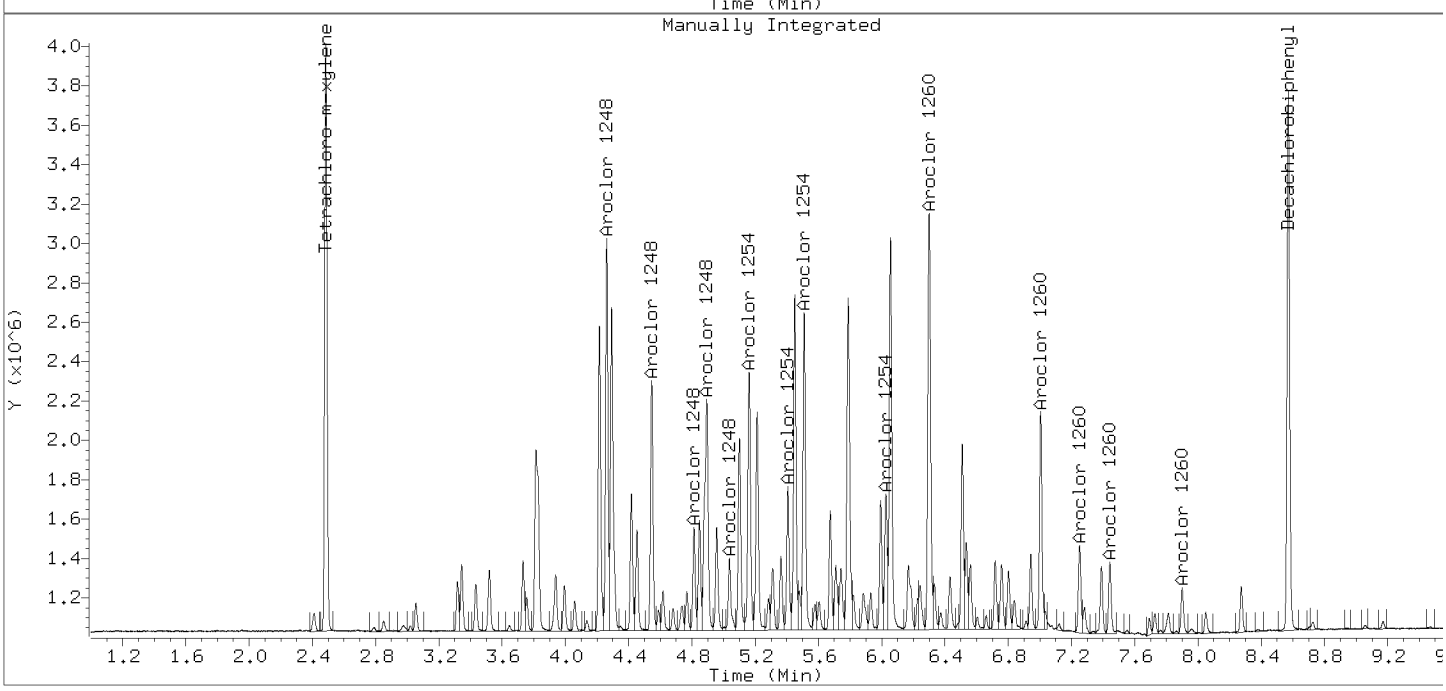
Injection Date: 03-APR-2018 17:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	254742	0	
Aroclor 1016	254742	0	
Aroclor 1016	254742	0	
Aroclor 1016	254742	0	
Aroclor 1016	254742	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	63730	0	
Aroclor 1232	63730	0	
Aroclor 1232	63730	0	
Aroclor 1232	63730	0	

Aroclor 1232	63730	0	
Aroclor 1242	254742	0	
Aroclor 1242	254742	0	
Aroclor 1242	254742	0	
Aroclor 1242	254742	0	
Aroclor 1242	254742	0	
Aroclor 1248	2106028	2111862	BA
Aroclor 1248	2106028	2111862	BA
Aroclor 1248	2106028	2111862	BA
Aroclor 1248	2106028	2111862	BA
Aroclor 1248	2106028	2111862	BA
Aroclor 1254	1584920	1592623	BA
Aroclor 1254	1584920	1592623	BA
Aroclor 1254	1584920	1592623	BA
Aroclor 1254	1584920	1592623	BA
Aroclor 1254	1584920	1592623	BA
Aroclor 1260	2642751	2655606	CO
Aroclor 1260	2642751	2655606	CO
Aroclor 1260	2642751	2655606	CO
Aroclor 1260	2642751	2655606	CO
Aroclor 1260	2642751	2655606	CO
Tetrachloro-m-xylene	3177640	3177640	
Decachlorobiphenyl	3111881	3111881	

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SAMPLE NO.

AT1-170616-01-SMB-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: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822004
Date Analyzed: 04/03/2018 17:23
Lab File ID: 040318.B\040318013.D
Initial wt/vol: 9.9687 g Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.7	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	620	
11097-69-1	PCB-1254 (Aroclor 1254)	353	
11096-82-5	PCB-1260 (Aroclor 1260)	278	
1336-36-3	PCB, Total	1250	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318013.D
Lab Smp Id: 40157822004 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 17:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822004 x4,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 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	9.969	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	10008	9164	0.916	0.02		
2.411	43452	33632	0.774	0.09		
2.485	2543217	2379328	0.936	5.84	$ 2 Tetrachloro-m-xylene	
2.790	21843	15057	0.689	0.05		
2.850	40040	29426	0.735	0.09		
2.975	25934	19503	0.752	0.05		
3.020	12331	11299	0.916	0.02		
3.055	74766	68307	0.914	0.17		
3.318	153525	153170	0.998	0.35		
3.344	228618	213648	0.935	0.52		
3.435	153933	151835	0.986	0.35		
3.519	256982	233042	0.907	0.59		
3.647	28285	22394	0.792	0.06		
3.732	260794	250717	0.961	0.59		
3.756	121364	120096	0.990	0.27		
3.813	931417	532664	0.572	2.14		
3.939	281247	231006	0.821	0.64		
3.993	201473	183451	0.911	0.46		
4.058	116624	107626	0.923	0.26		
4.136	53586	46506	0.868	0.12		
4.215	1304252	1178943	0.904	2.99		
4.261	1611005	1509128	0.937	3.70	6 Aroclor 1248	BA
4.292	1550858	1243133	0.802	3.56		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.346	18627	17918	0.962	0.04	
4.418	573611	529186	0.923	1.31	
4.452	428475	396265	0.925	0.98	
4.545	1084874	989699	0.912	2.49	6 Aroclor 1248
4.590	94119	85348	0.907	0.21	
4.617	188158	166470	0.885	0.43	
4.681	109260	96868	0.887	0.25	
4.737	134263	108225	0.806	0.30	
4.768	164786	152081	0.923	0.37	
4.814	412075	386419	0.938	0.94	6 Aroclor 1248
4.848	428321	386715	0.903	0.98	
4.895	1531905	985973	0.644	3.52	6 Aroclor 1248
4.957	504840	429690	0.851	1.16	
5.036	319091	256035	0.802	0.73	6 Aroclor 1248
5.100	936942	808386	0.863	2.15	
5.161	1276026	1090414	0.855	2.93	7 Aroclor 1254
5.213	989729	860600	0.870	2.27	
5.284	136350	130333	0.956	0.31	
5.310	296706	250241	0.843	0.68	
5.363	375702	340999	0.908	0.86	
5.407	624391	576780	0.924	1.43	7 Aroclor 1254
5.451	1506669	1399280	0.929	3.46	
5.477	172241	173846	1.009	0.39	
5.510	1478579	1279234	0.865	3.39	7 Aroclor 1254
5.578	111614	106227	0.952	0.25	
5.603	162713	133178	0.818	0.37	
5.674	511111	474689	0.929	1.17	
5.710	335292	265827	0.793	0.77	
5.743	312846	248463	0.794	0.71	
5.789	1695620	1335279	0.787	3.89	
5.821	129105	120733	0.935	0.29	
5.883	214466	145635	0.679	0.49	
5.932	179276	155352	0.867	0.41	
5.993	537130	495200	0.922	1.23	
6.029	607725	543331	0.894	1.39	7 Aroclor 1254
6.056	1760185	1528993	0.869	4.04	
6.171	438879	252144	0.575	1.00	
6.243	324696	167344	0.515	0.74	
6.301	2037241	1660932	0.815	4.68	8 Aroclor 1260
6.335	200189	173103	0.865	0.46	
6.375	82247	68836	0.837	0.18	
6.433	288291	243765	0.846	0.66	
6.485	22321	28320	1.269	0.05	
6.510	888793	826791	0.930	2.04	
6.535	349292	310959	0.890	0.80	
6.561	309942	274002	0.884	0.71	
6.605	55807	46744	0.838	0.12	
6.660	56799	53814	0.947	0.13	
6.718	311955	273771	0.878	0.71	
6.759	301803	252348	0.836	0.69	
6.803	259355	230978	0.891	0.59	
6.838	179074	139717	0.780	0.41	
6.912	44509	44482	0.999	0.10	
6.943	358256	321686	0.898	0.82	
7.006	1058770	947287	0.895	2.43	8 Aroclor 1260
7.036	121043	84516	0.698	0.27	
7.121	36928	31503	0.853	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.252	426423	388396	0.911	0.97	8 Aroclor 1260
7.282	131461	104345	0.794	0.30	
7.390	423887	369389	0.871	0.97	
7.443	445163	383222	0.861	1.02	8 Aroclor 1260
7.489	15230	12828	0.842	0.03	
7.551	17742	16713	0.942	0.04	
7.620	12654	9435	0.746	0.02	
7.691	98488	98818	1.003	0.22	
7.727	124587	104707	0.840	0.28	
7.764	18322	15804	0.863	0.04	
7.814	120358	78099	0.649	0.27	
7.867	12732	10303	0.809	0.02	
7.901	306810	271910	0.886	0.70	8 Aroclor 1260
7.958	45159	27175	0.602	0.10	
8.051	32254	25113	0.779	0.07	
8.275	304471	269245	0.884	0.69	
8.376	15886	12732	0.801	0.03	
8.448	11476	9808	0.855	0.02	
8.572	2717704	2325716	0.856	6.72	$ 12 Decachlorobiphenyl
8.728	48393	33212	0.686	0.11	
9.059	14659	11004	0.751	0.03	
9.170	64580	55047	0.852	0.14	
9.961	12835	9289	0.724	0.02	
	43515841	37268339		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318013.D
Lab Smp Id: 40157822004 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 17:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822004 x4,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 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	9.969	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.485	2.484	0.001	2543217	0.02063		41		

---

3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	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	1611004	0.68759	1400	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1084873	0.26140	520	0.00- 20.00	67.34	BA
4.813	4.812	0.001	412075	0.20298	410	0.00- 20.00	25.58	BA
4.894	4.879	0.015	1531904	0.30410	610	0.00- 20.00	95.09	BA
5.036	5.038	-0.002	319090	0.08892	180	0.00- 20.00	19.81	BA
			Average of Peak Concentrations =		620			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1276025	0.24374	490	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	624391	0.14517	290	0.00- 20.00	48.93	BA
5.510	5.510	0.000	1478579	0.19039	380	0.00- 20.00	115.87	BA
6.028	6.027	0.001	607725	0.12480	250	0.00- 20.00	47.63	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		350			
8 Aroclor 1260					CAS #: 11096-82-5			
6.301	6.300	0.001	2037241	0.22988	460	0.00- 20.00	100.00(M)	BA
7.006	7.006	0.000	1058769	0.10572	210	0.00- 20.00	51.97	BA
7.251	7.251	0.000	426422	0.08921	180	0.00- 20.00	20.93	BA
7.443	7.443	0.000	445163	0.15271	310	0.00- 20.00	21.85	BA
7.900	7.901	-0.001	306809	0.11627	230	0.00- 20.00	15.06	BA
			Average of Peak Concentrations =		280			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	2717704	0.02481	50			

QC Flag Legend

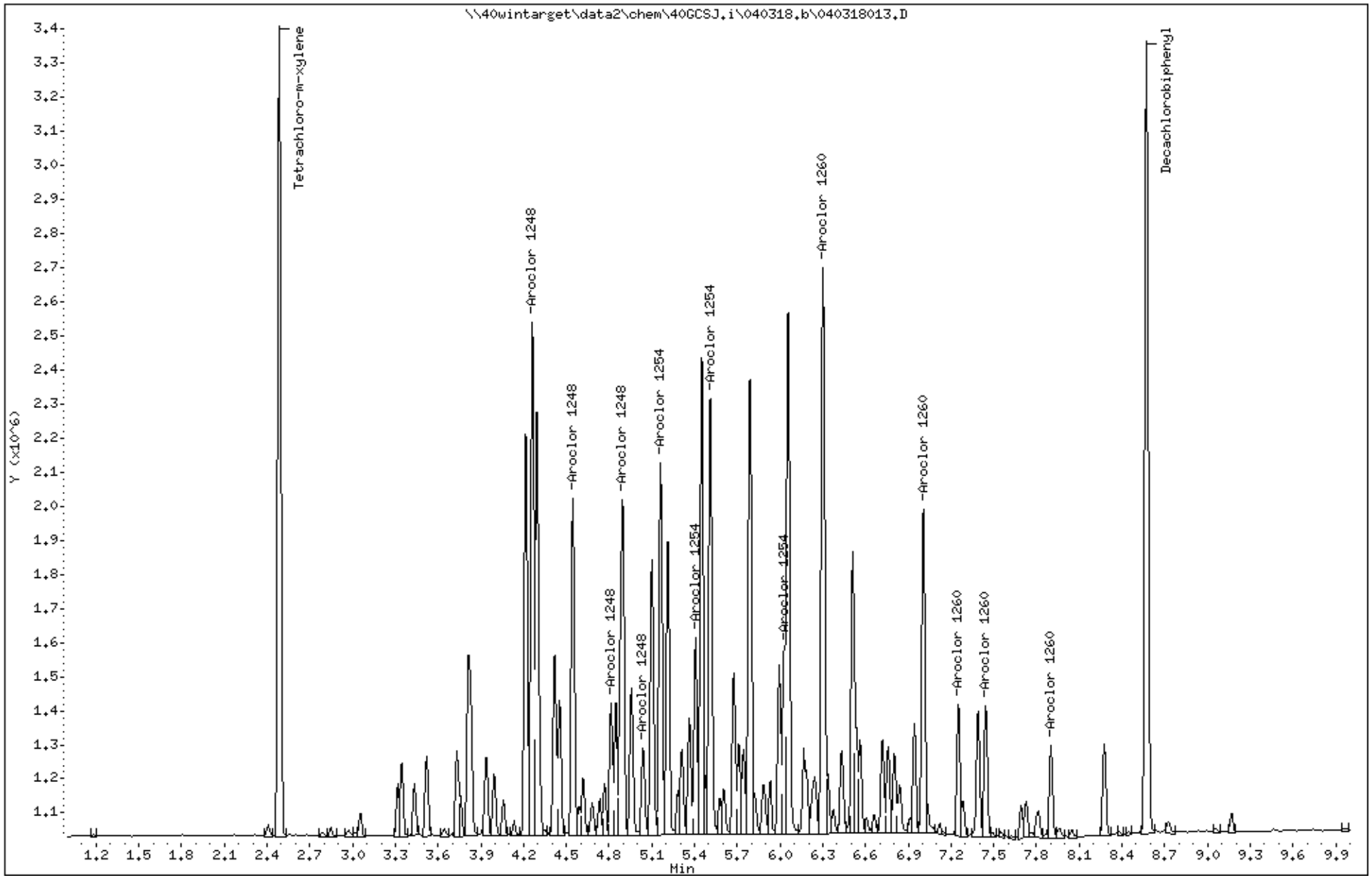
M - Compound response manually integrated.

Review Codes Legend

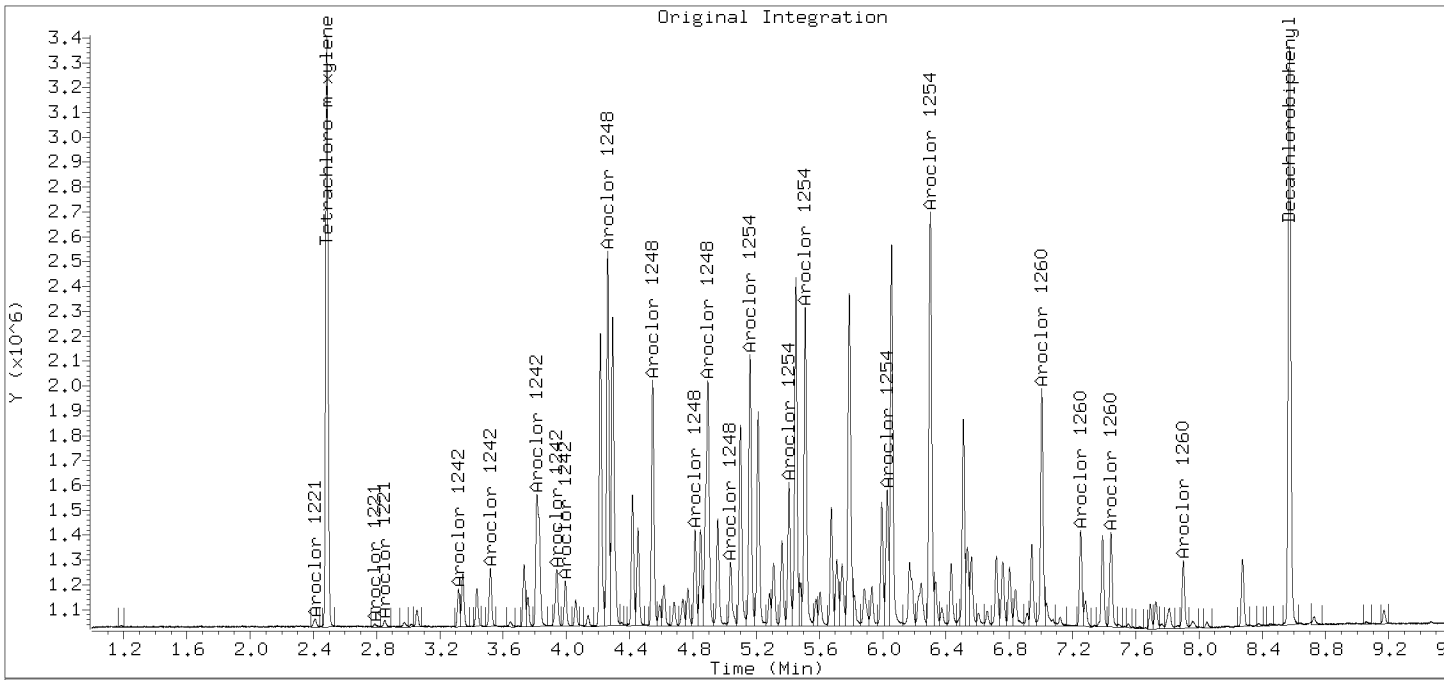
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

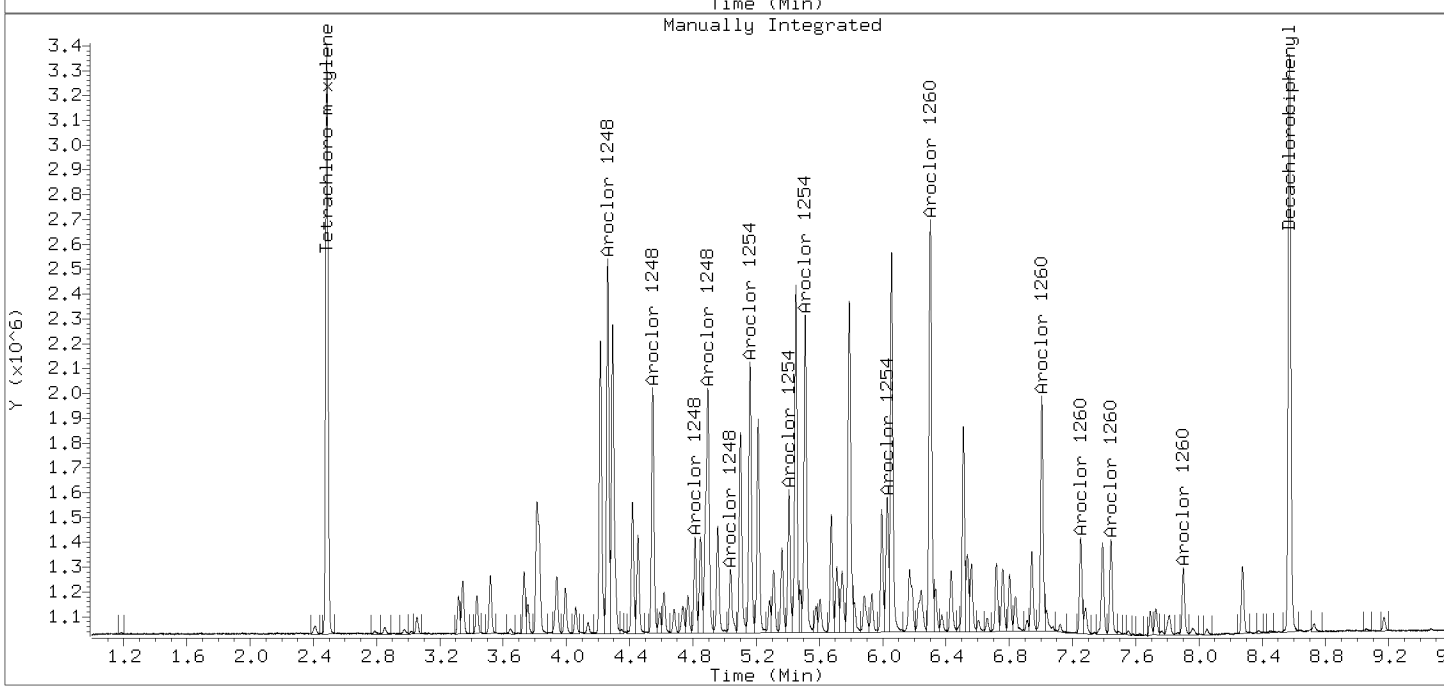
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318013.D
Date : 03-APR-2018 17:23
Client ID: AT1-170616-01-SMB-1
Sample Info: 40157822004 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 17:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	153524	0	
Aroclor 1016	153524	0	
Aroclor 1016	153524	0	
Aroclor 1016	153524	0	
Aroclor 1016	153524	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	40040	0	
Aroclor 1232	40040	0	
Aroclor 1232	40040	0	
Aroclor 1232	40040	0	

Aroclor 1232	40040	0	
Aroclor 1242	153524	0	
Aroclor 1242	153524	0	
Aroclor 1242	153524	0	
Aroclor 1242	153524	0	
Aroclor 1242	153524	0	
Aroclor 1248	1600516	1611004	BA
Aroclor 1248	1600516	1611004	BA
Aroclor 1248	1600516	1611004	BA
Aroclor 1248	1600516	1611004	BA
Aroclor 1248	1600516	1611004	BA
Aroclor 1254	1275877	1276025	BA
Aroclor 1254	1275877	1276025	BA
Aroclor 1254	1275877	1276025	BA
Aroclor 1254	1275877	1276025	BA
Aroclor 1254	1275877	1276025	BA
Aroclor 1260	2048509	2037241	BA
Aroclor 1260	2048509	2037241	BA
Aroclor 1260	2048509	2037241	BA
Aroclor 1260	2048509	2037241	BA
Aroclor 1260	2048509	2037241	BA
Tetrachloro-m-xylene	2543217	2543217	
Decachlorobiphenyl	2717704	2717704	

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SAMPLE NO.

AT1-170616-01-SMB-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: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822005
Date Analyzed: 04/03/2018 17:39
Lab File ID: 040318.B\040318014.D
Initial wt/vol: 9.9787 g Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.7	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	711	
11097-69-1	PCB-1254 (Aroclor 1254)	449	
11096-82-5	PCB-1260 (Aroclor 1260)	529	
1336-36-3	PCB, Total	1690	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318014.D
Lab Smp Id: 40157822005 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 17:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822005 x4,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.979	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	50677	36703	0.724	0.08		
2.485	2768811	2603780	0.940	4.74	$ 2 Tetrachloro-m-xylene	
2.788	16295	11904	0.731	0.02		
2.849	26587	21710	0.817	0.04		
2.974	29452	21308	0.723	0.05		
3.021	14616	14689	1.005	0.02		
3.055	82391	72354	0.878	0.14		
3.318	95340	90930	0.954	0.16		
3.345	150985	139271	0.922	0.25		
3.434	164747	147979	0.898	0.28		
3.521	233998	208960	0.893	0.40		
3.644	27227	24004	0.882	0.04		
3.732	259241	250356	0.966	0.44		
3.755	109460	108507	0.991	0.18		
3.813	905291	520603	0.575	1.55		
3.939	312980	262897	0.840	0.53		
3.993	205447	183797	0.895	0.35		
4.057	119079	106223	0.892	0.20		
4.137	41806	35222	0.843	0.07		
4.215	1627185	1478964	0.909	2.79		
4.261	1760703	1633978	0.928	3.02	6 Aroclor 1248	BA
4.293	1814878	1485851	0.819	3.11		
4.348	29236	21306	0.729	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	527626	506147	0.959	0.90	
4.452	447445	401386	0.897	0.76	
4.546	1156778	1046673	0.905	1.98	6 Aroclor 1248
4.590	131348	121863	0.928	0.22	
4.618	154622	135450	0.876	0.26	
4.682	135563	121350	0.895	0.23	
4.737	170882	142416	0.833	0.29	
4.769	221918	204852	0.923	0.38	
4.813	539909	509672	0.944	0.92	6 Aroclor 1248
4.848	493831	469634	0.951	0.84	
4.895	1896338	1166700	0.615	3.25	6 Aroclor 1248
4.957	587031	509691	0.868	1.00	
5.038	363054	333956	0.920	0.62	6 Aroclor 1248
5.057	33687	52857	1.569	0.05	
5.101	1157597	1009617	0.872	1.98	
5.161	1606954	1358854	0.846	2.75	7 Aroclor 1254
5.212	1266892	1145281	0.904	2.17	
5.284	178581	171402	0.960	0.30	
5.311	403555	337892	0.837	0.69	
5.363	423246	393497	0.930	0.72	
5.406	839831	751091	0.894	1.44	7 Aroclor 1254
5.451	1944365	1820229	0.936	3.33	
5.478	203823	209948	1.030	0.34	
5.510	1791294	1503010	0.839	3.07	7 Aroclor 1254
5.577	169339	156063	0.922	0.29	
5.606	177709	149713	0.842	0.30	
5.676	747942	692355	0.926	1.28	
5.710	435908	344379	0.790	0.74	
5.743	450309	341054	0.757	0.77	
5.788	2284439	1814030	0.794	3.91	
5.884	290911	193595	0.665	0.49	
5.932	261994	221057	0.844	0.44	
5.994	836151	774577	0.926	1.43	
6.027	796760	714452	0.897	1.36	7 Aroclor 1254
6.056	2771046	2320708	0.837	4.75	
6.169	662231	397806	0.601	1.13	
6.226	168080	182290	1.085	0.28	
6.244	298046	229582	0.770	0.51	
6.301	3042863	2412401	0.793	5.72	8 Aroclor 1260
6.333	298623	276212	0.925	0.51	
6.374	114684	95351	0.831	0.19	
6.432	465260	393493	0.846	0.79	
6.510	1691301	1468969	0.869	2.90	
6.536	490515	471300	0.961	0.84	
6.561	588747	543043	0.922	1.00	
6.605	101802	86170	0.846	0.17	
6.661	108917	95585	0.878	0.18	
6.718	474542	415589	0.876	0.81	
6.759	425616	357411	0.840	0.73	
6.803	464906	415259	0.893	0.79	
6.839	310523	255344	0.822	0.53	
6.888	14053	16018	1.140	0.02	
6.912	91852	90644	0.987	0.15	
6.943	658256	608095	0.924	1.12	
7.004	2139845	1887312	0.882	3.67	8 Aroclor 1260
7.035	232703	157275	0.676	0.39	
7.102	6217	11223	1.805	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.121	44510	37172	0.835	0.07	
7.251	804394	713365	0.887	1.37	8 Aroclor 1260
7.281	237201	200885	0.847	0.40	
7.389	896928	773868	0.863	1.53	
7.443	976689	879387	0.900	1.67	8 Aroclor 1260
7.554	47885	37788	0.789	0.08	
7.615	18965	10710	0.565	0.03	
7.690	226311	206847	0.914	0.38	
7.728	246405	219049	0.889	0.42	
7.764	36400	34356	0.944	0.06	
7.812	246702	159992	0.649	0.42	
7.860	14382	15964	1.110	0.02	
7.900	683993	593070	0.867	1.17	8 Aroclor 1260
7.961	83268	52846	0.635	0.14	
8.051	70571	60914	0.863	0.12	
8.275	733230	644299	0.879	1.25	
8.379	18601	13225	0.711	0.03	
8.449	13769	12352	0.897	0.02	
8.572	2953788	2446140	0.828	5.06	$ 12 Decachlorobiphenyl
8.640	16030	12217	0.762	0.02	
8.704	19365	22715	1.173	0.03	
8.726	114555	91059	0.795	0.19	
9.057	31821	22310	0.701	0.05	
9.168	124235	104826	0.844	0.21	
9.738	28983	24418	0.842	0.04	
9.964	11814	9117	0.772	0.02	
	58295490	49892010		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318014.D
Lab Smp Id: 40157822005 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 17:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822005 x4,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	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		
2.485	2.484	0.001	2768811	0.02246	45			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1760702	0.75148	1500	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1156778	0.27872	560	0.00- 20.00	65.70	BA
4.813	4.812	0.001	539908	0.26595	530	0.00- 20.00	30.66	BA
4.894	4.879	0.015	1896337	0.37645	750	0.00- 20.00	107.70	BA
5.037	5.038	-0.001	363054	0.10117	200	0.00- 20.00	20.62	BA
			Average of Peak Concentrations =		710			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1606954	0.30695	620	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	839831	0.19526	390	0.00- 20.00	52.26	BA
5.509	5.510	-0.001	1791294	0.23066	460	0.00- 20.00	111.47	BA
6.026	6.027	-0.001	796759	0.16362	330	0.00- 20.00	49.58	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		450			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	3042862	0.34335	690	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	2139845	0.21368	430	0.00- 20.00	70.32	BA
7.250	7.251	-0.001	804394	0.16829	340	0.00- 20.00	26.44	BA
7.442	7.443	-0.001	976688	0.33504	670	0.00- 20.00	32.10	BA
7.899	7.901	-0.002	683993	0.25921	520	0.00- 20.00	22.48	BA
			Average of Peak Concentrations =		530			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	2953788	0.02696	54			

QC Flag Legend

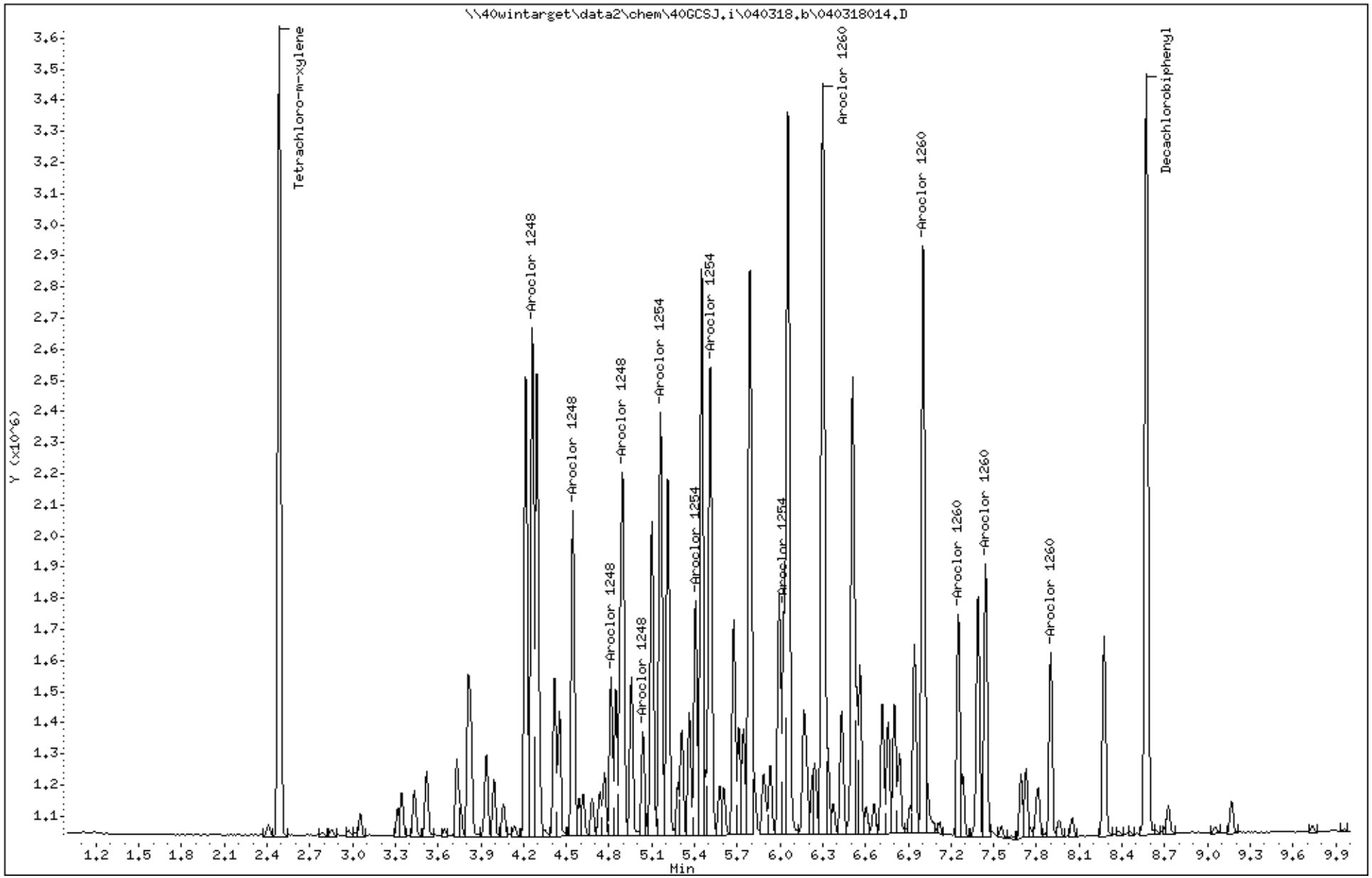
M - Compound response manually integrated.

Review Codes Legend

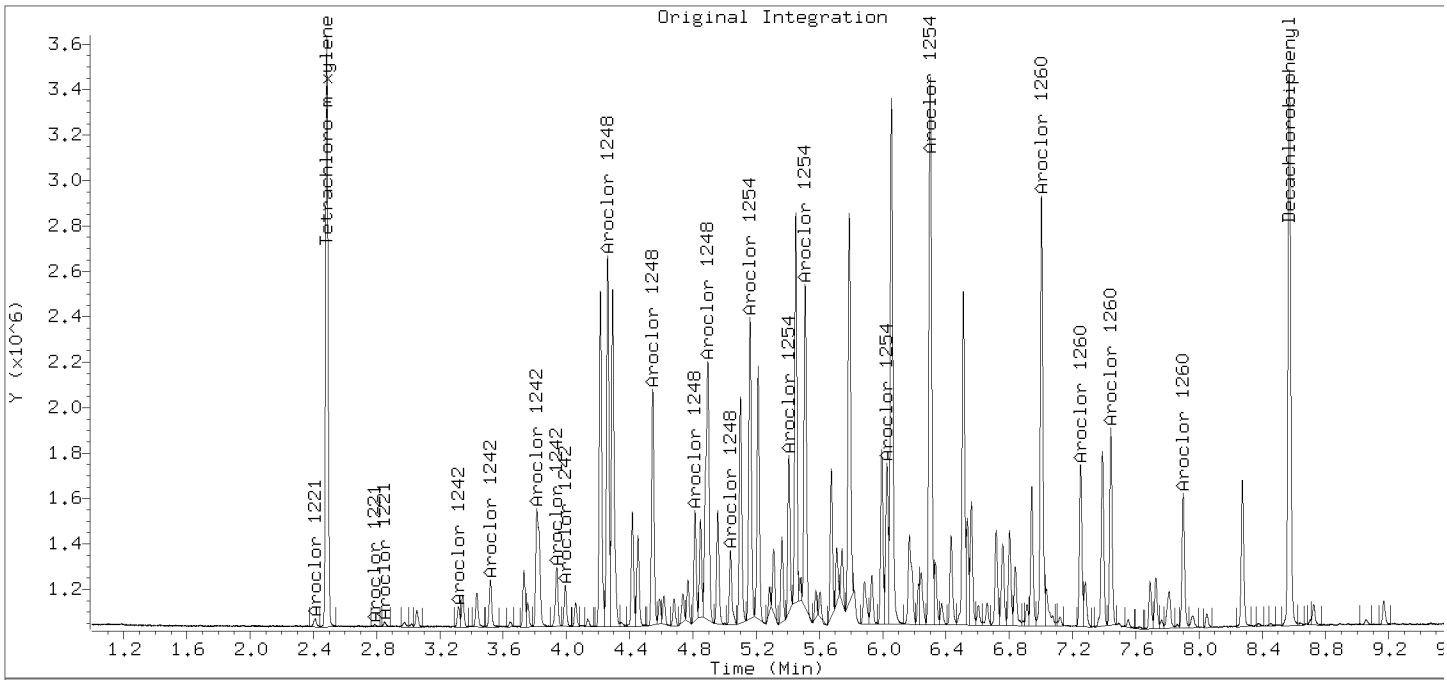
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

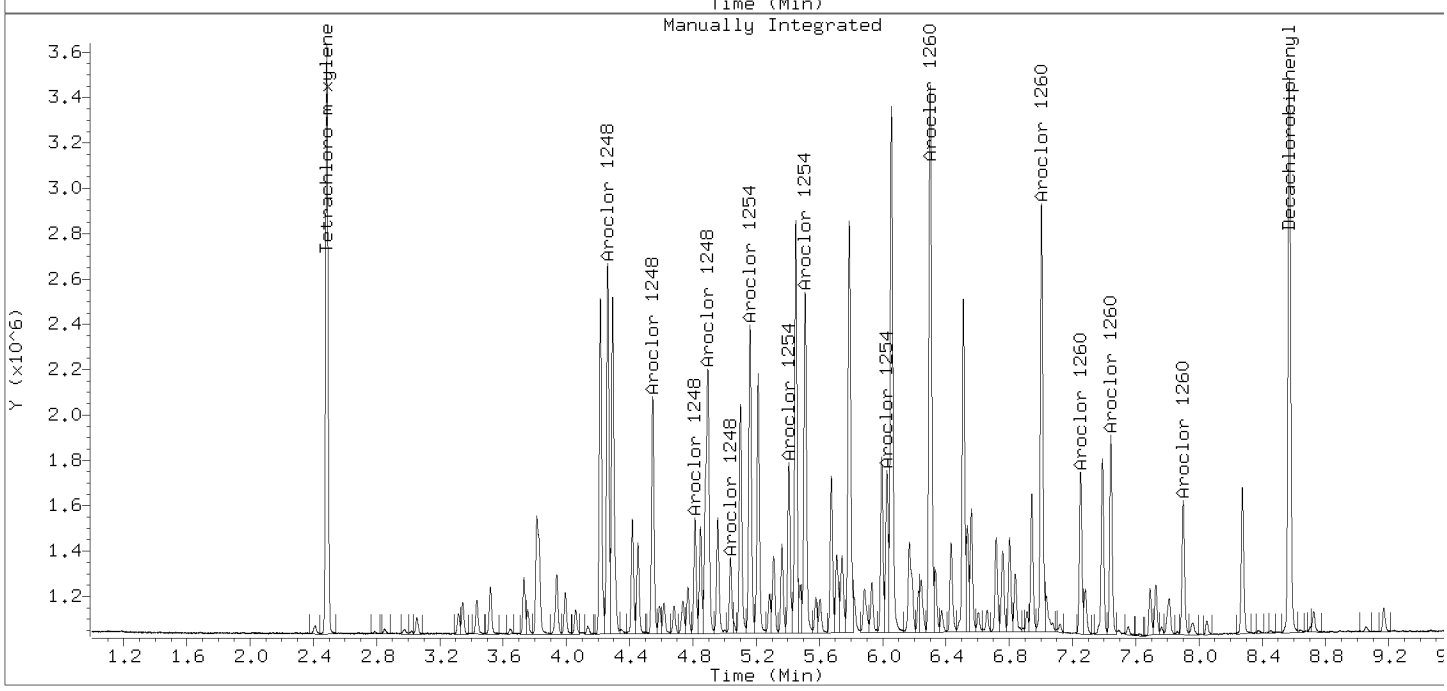
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318014.D
Date : 03-APR-2018 17:39
Client ID: AT1-170616-01-SMB-1
Sample Info: 40157822005 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 17:39 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	95339	0	
Aroclor 1016	95339	0	
Aroclor 1016	95339	0	
Aroclor 1016	95339	0	
Aroclor 1016	95339	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	26586	0	
Aroclor 1232	26586	0	
Aroclor 1232	26586	0	
Aroclor 1232	26586	0	

Aroclor 1232	26586	0	
Aroclor 1242	95339	0	
Aroclor 1242	95339	0	
Aroclor 1242	95339	0	
Aroclor 1242	95339	0	
Aroclor 1242	95339	0	
Aroclor 1248	1754573	1760702	BA
Aroclor 1248	1754573	1760702	BA
Aroclor 1248	1754573	1760702	BA
Aroclor 1248	1754573	1760702	BA
Aroclor 1248	1754573	1760702	BA
Aroclor 1254	1504801	1606954	BA
Aroclor 1254	1504801	1606954	BA
Aroclor 1254	1504801	1606954	BA
Aroclor 1254	1504801	1606954	BA
Aroclor 1254	1504801	1606954	BA
Aroclor 1260	3033245	3042862	BA
Aroclor 1260	3033245	3042862	BA
Aroclor 1260	3033245	3042862	BA
Aroclor 1260	3033245	3042862	BA
Aroclor 1260	3033245	3042862	BA
Tetrachloro-m-xylene	2768811	2768811	
Decachlorobiphenyl	2953788	2953788	

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SAMPLE NO.

AT1-170616-01-SMB-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: 10/03/2017 10:20

Matrix: Tissue SDG No.: 40157822

Date Extracted: 04/02/2018 07:11

Lab Sample ID: 40157822006

Date Analyzed: 04/03/2018 17:55

Lab File ID: 040318.B\040318015.D

Initial wt/vol: 9.9785 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)	1660	
11097-69-1	PCB-1254 (Aroclor 1254)	1050	
11096-82-5	PCB-1260 (Aroclor 1260)	505	
1336-36-3	PCB, Total	3210	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318015.D
Lab Smp Id: 40157822006 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 17:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822006 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
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	9.979	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.181	14375	9302	0.647	0.03		
2.411	47781	36607	0.766	0.11		
2.485	1184516	1126872	0.951	2.83	$ 2 Tetrachloro-m-xylene	
2.790	13786	13187	0.957	0.03		
2.850	36144	33385	0.924	0.08		
2.974	25732	18596	0.723	0.06		
3.021	17972	13303	0.740	0.04		
3.056	87838	79485	0.905	0.20		
3.318	177171	173334	0.978	0.42		
3.345	277630	258187	0.930	0.66		
3.434	210262	192012	0.913	0.50		
3.520	323087	283719	0.878	0.77		
3.646	36404	27071	0.744	0.08		
3.732	308071	292077	0.948	0.73		
3.755	136039	134384	0.988	0.32		
3.813	1061281	627671	0.591	2.53		
3.939	349417	291687	0.835	0.83		
3.993	228518	208729	0.913	0.54		
4.058	142582	124460	0.873	0.34		
4.136	54352	50974	0.938	0.12		
4.215	1479838	1333260	0.901	3.53		
4.261	1751347	1638001	0.935	4.18	6 Aroclor 1248	BA
4.293	1735442	1395645	0.804	4.14		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.418	582840	557391	0.956	1.39	
4.453	451216	405555	0.899	1.07	
4.545	1163529	1067037	0.917	2.77	6 Aroclor 1248
4.589	104915	97672	0.931	0.25	
4.617	195251	172318	0.883	0.46	
4.682	117735	101907	0.866	0.28	
4.736	148889	120802	0.811	0.35	
4.769	170008	164236	0.966	0.40	
4.813	427047	400054	0.937	1.02	6 Aroclor 1248
4.848	438632	401018	0.914	1.04	
4.894	1680178	1078334	0.642	4.01	6 Aroclor 1248
4.957	523336	469111	0.896	1.25	
5.003	14133	14746	1.043	0.03	
5.037	293165	267907	0.914	0.70	6 Aroclor 1248
5.056	37883	51634	1.363	0.09	
5.100	1025295	881883	0.860	2.44	
5.161	1344492	1132248	0.842	3.21	7 Aroclor 1254
5.212	1072049	919857	0.858	2.56	
5.284	151811	145778	0.960	0.36	
5.310	343857	291693	0.848	0.82	
5.363	374350	341921	0.913	0.89	
5.407	662509	604203	0.912	1.58	7 Aroclor 1254
5.452	1479892	1366804	0.924	3.53	
5.479	180620	182541	1.011	0.43	
5.510	1548623	1351835	0.873	3.70	7 Aroclor 1254
5.577	123521	112041	0.907	0.29	
5.604	154436	132161	0.856	0.36	
5.675	534453	496355	0.929	1.27	
5.710	361183	274406	0.760	0.86	
5.744	312565	241164	0.772	0.74	
5.789	1709386	1335318	0.781	4.08	
5.821	166517	136927	0.822	0.39	
5.886	238115	153908	0.646	0.56	
5.932	170393	143321	0.841	0.40	
5.994	535248	494356	0.924	1.27	
6.029	606853	546680	0.901	1.44	7 Aroclor 1254
6.056	1809127	1508591	0.834	4.32	
6.170	433915	246882	0.569	1.03	
6.227	99257	118697	1.196	0.23	
6.243	211721	152704	0.721	0.50	
6.301	2032362	1668741	0.821	5.33	7 Aroclor 1254
6.332	204876	185617	0.906	0.48	
6.374	87422	69443	0.794	0.20	
6.432	254369	202760	0.797	0.60	
6.511	805236	749464	0.931	1.92	
6.536	355539	327892	0.922	0.84	
6.561	295620	252881	0.855	0.70	
6.606	62806	51930	0.827	0.15	
6.661	56085	51785	0.923	0.13	
6.719	268605	238670	0.889	0.64	
6.759	238093	202883	0.852	0.56	
6.802	256294	229232	0.894	0.61	
6.840	154058	116621	0.757	0.36	
6.913	38575	37162	0.963	0.09	
6.943	430870	373435	0.867	1.02	
7.005	986808	854998	0.866	2.35	8 Aroclor 1260
7.035	65322	74631	1.143	0.15	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.121	29304	18633	0.636	0.07	
7.252	391178	335814	0.858	0.93	8 Aroclor 1260
7.281	121333	98900	0.815	0.28	
7.391	350401	286762	0.818	0.83	
7.444	375815	313874	0.835	0.89	8 Aroclor 1260
7.552	31109	18766	0.603	0.07	
7.691	81635	77333	0.947	0.19	
7.727	96250	83680	0.869	0.22	
7.762	21661	16261	0.751	0.05	
7.815	123479	83950	0.680	0.29	
7.866	12827	10938	0.853	0.03	
7.901	248049	211455	0.852	0.59	8 Aroclor 1260
7.962	41353	22203	0.537	0.09	
8.051	26479	19176	0.724	0.06	
8.276	245096	204739	0.835	0.58	
8.375	13630	9087	0.667	0.03	
8.572	1268398	1069965	0.844	3.03	$ 12 Decachlorobiphenyl
8.727	29388	26635	0.906	0.07	
9.170	54852	46206	0.842	0.13	
	41853709	35686466		100.000	

Total unknown % area = 61

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318015.D
Lab Smp Id: 40157822006 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 17:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822006 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
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	9.979	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	1184515	0.00961	48			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1751346	0.74749	3700	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1163528	0.28035	1400	0.00- 20.00	66.44	BA
4.813	4.812	0.001	427047	0.21036	1000	0.00- 20.00	24.38	BA
4.894	4.879	0.015	1680177	0.33354	1700	0.00- 20.00	95.94	BA
5.036	5.038	-0.002	293164	0.08169	410	0.00- 20.00	16.74	BA
Average of Peak Concentrations =					1600			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1344491	0.25682	1300	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	662508	0.15403	770	0.00- 20.00	49.28	BA
5.509	5.510	-0.001	1548622	0.19941	1000	0.00- 20.00	115.18	BA
6.028	6.027	0.001	606853	0.12462	620	0.00- 20.00	45.14	BA
6.300	6.299	0.001	2032362	0.31233	1600	0.00- 20.00	151.16	BA
Average of Peak Concentrations =					1000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	986807	0.09854	490	0.00- 20.00	0.00	BA
7.252	7.251	0.001	391178	0.08184	410	0.00- 20.00	0.00	BA
7.443	7.443	0.000	375815	0.12892	640	0.00- 20.00	0.00	BA
7.901	7.901	0.000	248049	0.09400	470	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					500			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	1268398	0.01158	58			

QC Flag Legend

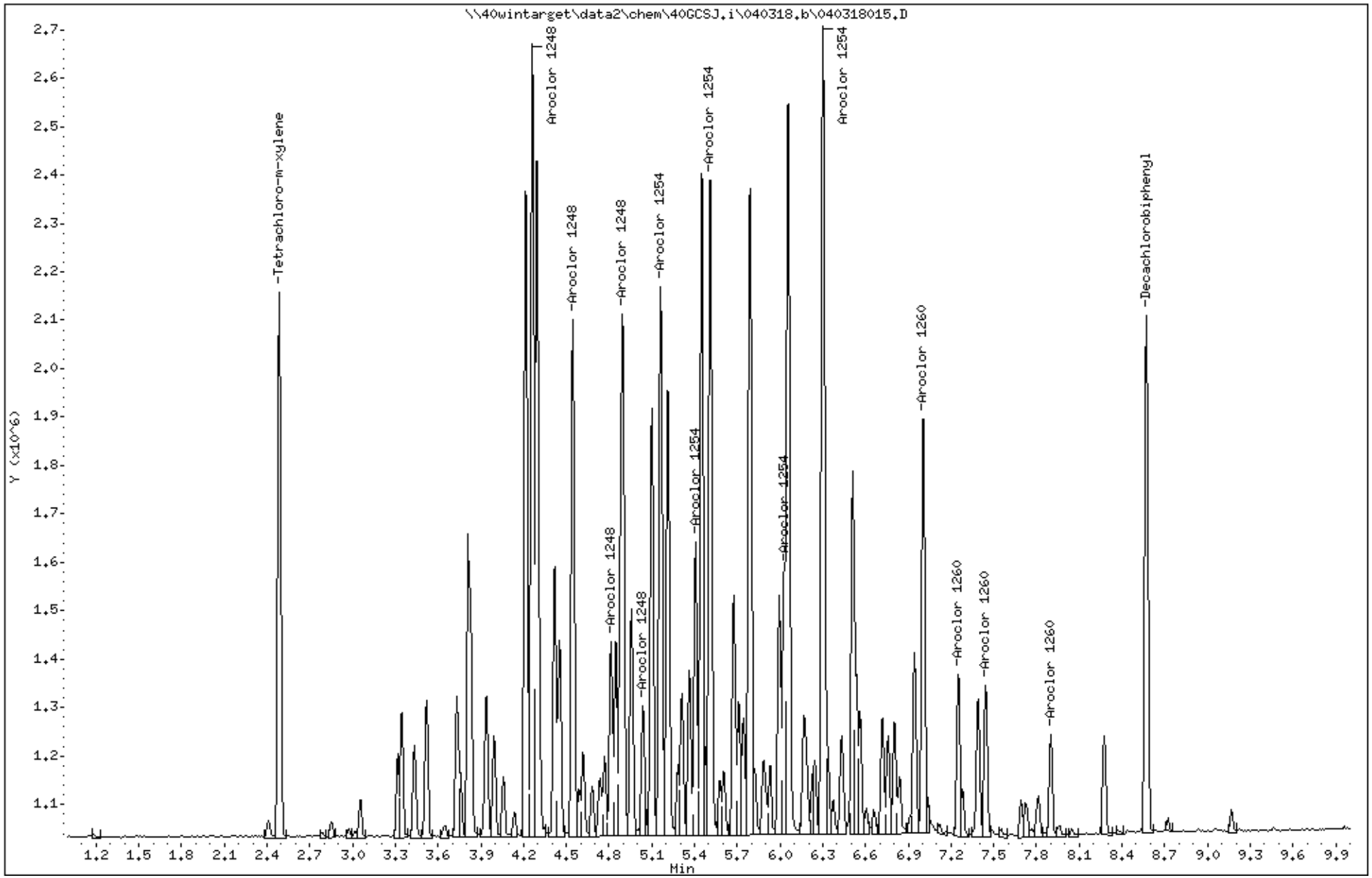
M - Compound response manually integrated.

Review Codes Legend

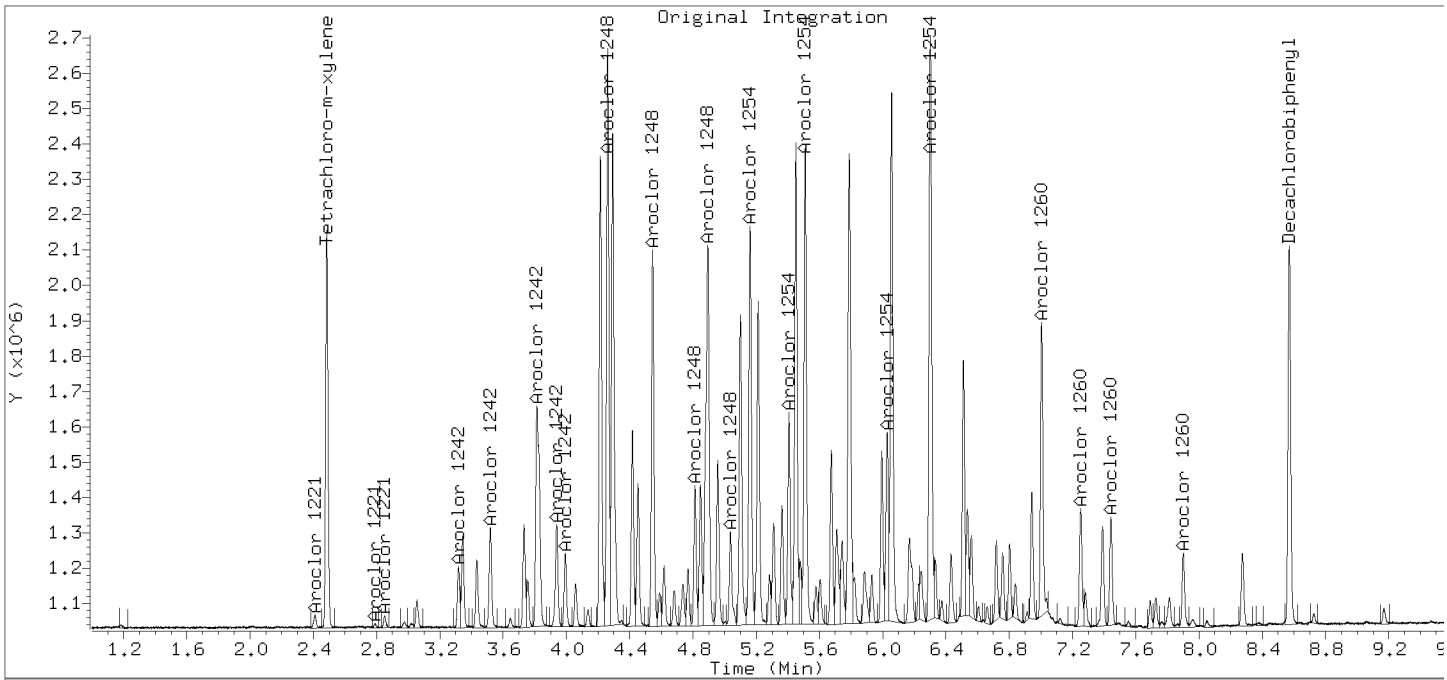
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

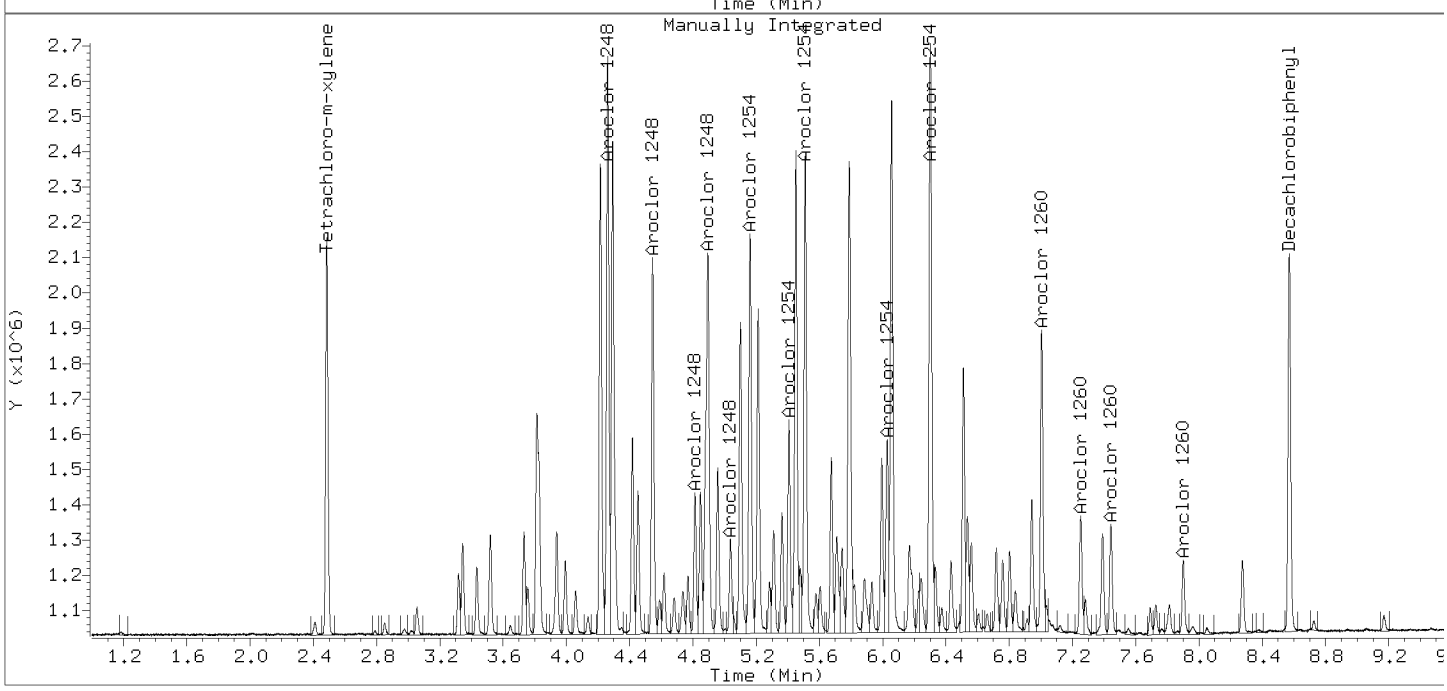
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318015.D
Date : 03-APR-2018 17:55
Client ID: AT1-170616-01-SMB-1
Sample Info: 40157822006 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 17:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	177171	0	
Aroclor 1016	177171	0	
Aroclor 1016	177171	0	
Aroclor 1016	177171	0	
Aroclor 1016	177171	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	36143	0	
Aroclor 1232	36143	0	
Aroclor 1232	36143	0	
Aroclor 1232	36143	0	

Aroclor 1232	36143	0	
Aroclor 1242	177171	0	
Aroclor 1242	177171	0	
Aroclor 1242	177171	0	
Aroclor 1242	177171	0	
Aroclor 1242	177171	0	
Aroclor 1248	1739670	1751346	BA
Aroclor 1248	1739670	1751346	BA
Aroclor 1248	1739670	1751346	BA
Aroclor 1248	1739670	1751346	BA
Aroclor 1248	1739670	1751346	BA
Aroclor 1254	1331706	1344491	BA
Aroclor 1254	1331706	1344491	BA
Aroclor 1254	1331706	1344491	BA
Aroclor 1254	1331706	1344491	BA
Aroclor 1254	1331706	1344491	BA
Aroclor 1260	1985611	0	BA
Aroclor 1260	1985611	0	BA
Aroclor 1260	1985611	0	BA
Aroclor 1260	1985611	0	BA
Aroclor 1260	1985611	0	BA
Tetrachloro-m-xylene	1184515	1184515	
Decachlorobiphenyl	1268398	1268398	

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SAMPLE NO.

AT1-170616-01-SMB-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: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822007
Date Analyzed: 04/03/2018 18:43
Lab File ID: 040318.B\040318018.D
Initial wt/vol: 10.0096 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<56.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<56.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	859	
11097-69-1	PCB-1254 (Aroclor 1254)	703	
11096-82-5	PCB-1260 (Aroclor 1260)	291	
1336-36-3	PCB, Total	1850	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318018.D
Lab Smp Id: 40157822007 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 18:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822007 x5,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.010	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.409	48171	35867	0.745	0.10		
2.485	1935823	1781376	0.920	4.17	$ 2 Tetrachloro-m-xylene	
2.793	10156	9236	0.909	0.02		
2.852	27946	20189	0.722	0.06		
2.976	30750	25645	0.834	0.06		
3.024	9686	9610	0.992	0.02		
3.055	66342	62089	0.936	0.14		
3.316	52812	50250	0.951	0.11		
3.344	69967	63169	0.903	0.15		
3.434	89175	77090	0.864	0.19		
3.520	126850	111725	0.881	0.27		
3.647	15895	12760	0.803	0.03		
3.732	187896	180932	0.963	0.40		
3.755	81385	75579	0.929	0.17		
3.814	346551	393109	1.134	0.74		
3.826	397755	372223	0.936	0.85		
3.939	142618	112379	0.788	0.30		
3.994	132453	118716	0.896	0.28		
4.060	65784	58921	0.896	0.14		
4.135	17488	14993	0.857	0.03		
4.215	1216583	1127097	0.926	2.62		
4.261	1544743	1440074	0.932	3.32	6 Aroclor 1248	BA
4.292	1897944	1584181	0.835	4.09		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	370261	345058	0.932	0.79	
4.452	357280	321734	0.901	0.77	
4.546	886663	830271	0.936	1.91	6 Aroclor 1248
4.589	169401	152654	0.901	0.36	
4.616	101425	91635	0.903	0.21	
4.682	143132	129622	0.906	0.30	
4.736	191159	157760	0.825	0.41	
4.768	257579	236757	0.919	0.55	
4.813	727617	686174	0.943	1.56	6 Aroclor 1248
4.848	445921	424296	0.952	0.96	
4.893	1806466	903920	0.500	3.89	6 Aroclor 1248
4.957	609527	528443	0.867	1.31	
5.037	463869	414318	0.893	0.99	6 Aroclor 1248
5.101	1051948	931414	0.885	2.26	
5.160	1684679	1403790	0.833	3.63	7 Aroclor 1254
5.212	1395039	1218210	0.873	3.00	
5.284	185629	180079	0.970	0.40	
5.308	286879	238493	0.831	0.61	
5.362	417555	378216	0.906	0.90	
5.406	985775	877396	0.890	2.12	7 Aroclor 1254
5.448	881265	731559	0.830	1.89	
5.478	156945	153314	0.977	0.33	
5.510	1724368	1459833	0.847	3.71	7 Aroclor 1254
5.576	172527	156186	0.905	0.37	
5.604	192160	163198	0.849	0.41	
5.675	601636	553263	0.920	1.29	
5.709	346684	283034	0.816	0.74	
5.742	503984	393197	0.780	1.08	
5.789	2626538	1912815	0.728	5.66	
5.884	259352	187857	0.724	0.55	
5.931	289158	242737	0.839	0.62	
5.993	718785	675969	0.940	1.54	
6.026	936138	805683	0.861	2.01	7 Aroclor 1254
6.055	2121756	1763057	0.831	4.57	
6.169	439275	273973	0.624	0.94	
6.242	437102	227228	0.520	0.94	
6.301	2872975	2353400	0.819	6.66	7 Aroclor 1254
6.332	260576	247982	0.952	0.56	
6.372	115658	92743	0.802	0.24	
6.432	342979	286784	0.836	0.73	
6.510	1014808	927834	0.914	2.18	
6.535	486464	433734	0.892	1.04	
6.559	262881	233110	0.887	0.56	
6.604	95328	79550	0.834	0.20	
6.661	52316	45789	0.875	0.11	
6.717	283463	244578	0.863	0.61	
6.758	329960	290328	0.880	0.71	
6.801	350430	305993	0.873	0.75	
6.839	196856	152295	0.774	0.42	
6.911	38059	37589	0.988	0.08	
6.943	338324	294794	0.871	0.72	
7.005	1013514	895867	0.884	2.18	8 Aroclor 1260
7.032	78422	88000	1.122	0.16	
7.122	24935	26256	1.053	0.05	
7.251	451278	409960	0.908	0.97	8 Aroclor 1260
7.282	151329	125809	0.831	0.32	
7.388	445701	385810	0.866	0.96	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.443	440036	389895	0.886	0.94	8 Aroclor 1260
7.552	28646	22887	0.799	0.06	
7.692	97131	91760	0.945	0.20	
7.728	114925	100179	0.872	0.24	
7.811	95058	59506	0.626	0.20	
7.900	313496	270217	0.862	0.67	8 Aroclor 1260
7.962	41576	23829	0.573	0.08	
8.049	107478	84255	0.784	0.23	
8.274	307391	280265	0.912	0.66	
8.456	9910	6142	0.620	0.02	
8.570	2094559	1779339	0.850	4.51	$ 12 Decachlorobiphenyl
8.723	26370	17273	0.655	0.05	
8.938	10212	7338	0.719	0.02	
9.053	9780	11043	1.129	0.02	
9.172	26776	21531	0.804	0.05	
	46389852	39294017		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318018.D
Lab Smp Id: 40157822007 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 18:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822007 x5,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.010	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	1935823	0.01570	39			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1544743	0.65931	1600	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	886662	0.21364	530	0.00- 20.00	57.40	BA
4.812	4.812	0.000	727617	0.35842	900	0.00- 20.00	47.10	BA
4.893	4.879	0.014	1806465	0.35861	900	0.00- 20.00	116.94	BA
5.036	5.038	-0.002	463869	0.12926	320	0.00- 20.00	30.03	BA
Average of Peak Concentrations =					860			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1684679	0.32180	800	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	985775	0.22919	570	0.00- 20.00	58.51	BA
5.509	5.510	-0.001	1724367	0.22204	550	0.00- 20.00	102.36	BA
6.026	6.027	-0.001	936137	0.19224	480	0.00- 20.00	55.57	BA
6.300	6.299	0.001	2872975	0.44151	1100	0.00- 20.00	170.54	BA
Average of Peak Concentrations =					700			
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
7.005	7.006	-0.001	1013514	0.10121	250	0.00- 20.00	0.00	BA
7.251	7.251	0.000	451277	0.09441	240	0.00- 20.00	0.00	BA
7.443	7.443	0.000	440035	0.15095	380	0.00- 20.00	0.00	BA
7.899	7.901	-0.002	313496	0.11881	300	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					290			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2094558	0.01912	48			

QC Flag Legend

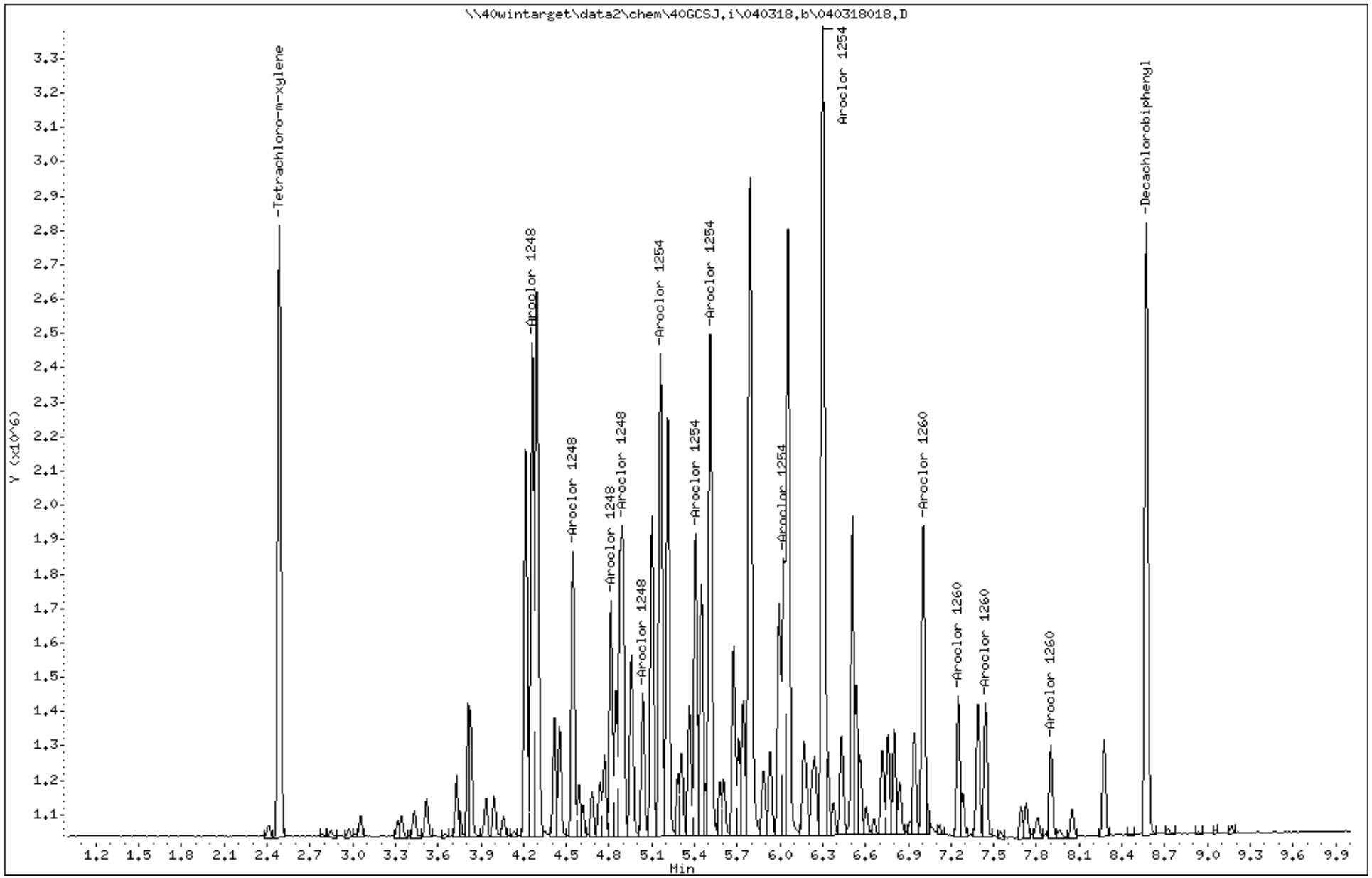
M - Compound response manually integrated.

Review Codes Legend

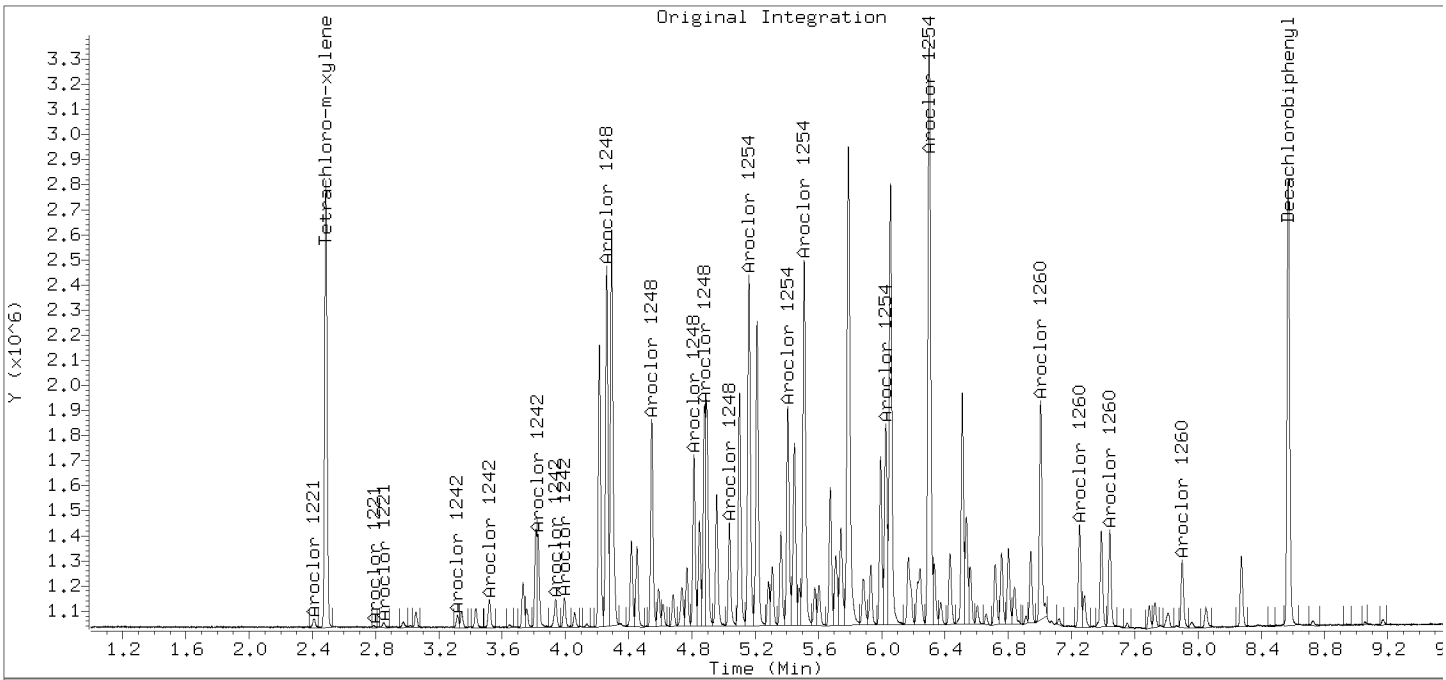
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

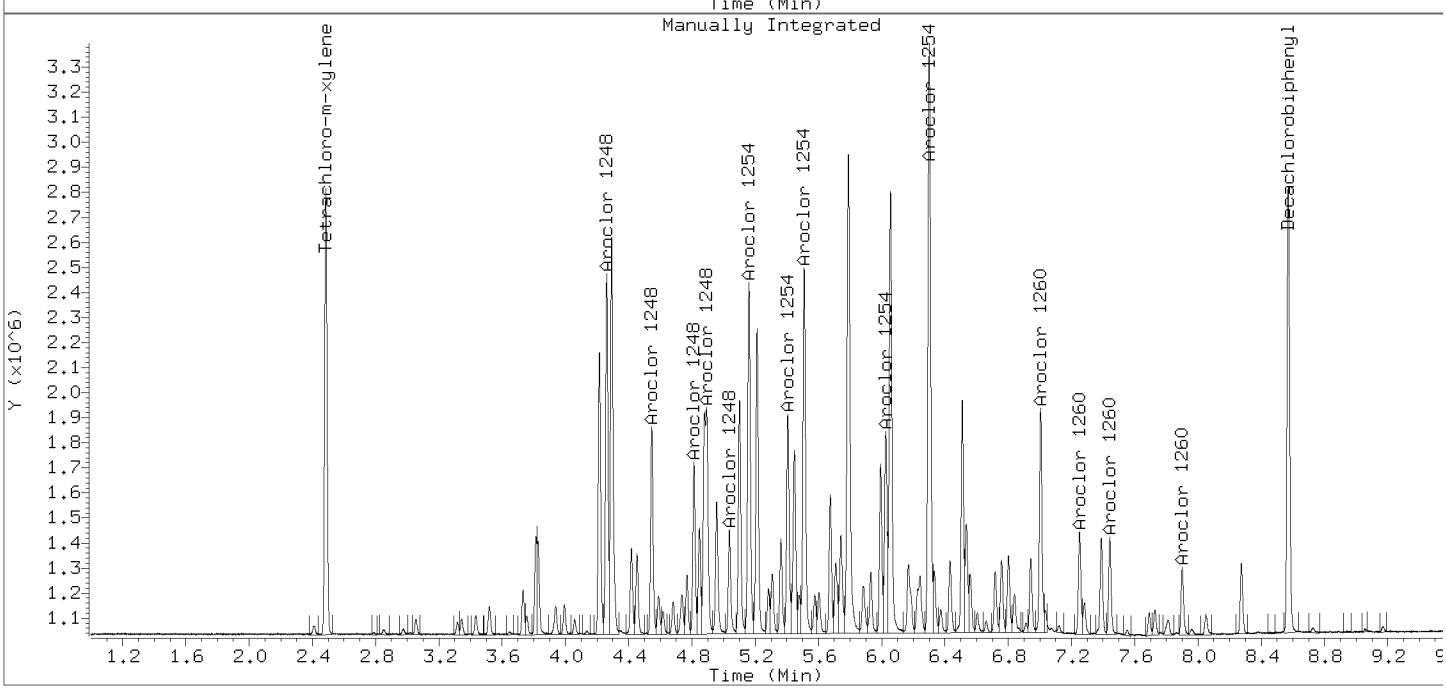
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318018.D
Date : 03-APR-2018 18:43
Client ID: AT1-170616-01-SMB-1
Sample Info: 40157822007 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 18:43 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	52811	0	
Aroclor 1016	52811	0	
Aroclor 1016	52811	0	
Aroclor 1016	52811	0	
Aroclor 1016	52811	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	27946	0	
Aroclor 1232	27946	0	
Aroclor 1232	27946	0	
Aroclor 1232	27946	0	

Aroclor 1232	27946	0	
Aroclor 1242	52811	0	
Aroclor 1242	52811	0	
Aroclor 1242	52811	0	
Aroclor 1242	52811	0	
Aroclor 1242	52811	0	
Aroclor 1248	1530471	1544743	BA
Aroclor 1248	1530471	1544743	BA
Aroclor 1248	1530471	1544743	BA
Aroclor 1248	1530471	1544743	BA
Aroclor 1248	1530471	1544743	BA
Aroclor 1254	1672027	1684679	BA
Aroclor 1254	1672027	1684679	BA
Aroclor 1254	1672027	1684679	BA
Aroclor 1254	1672027	1684679	BA
Aroclor 1254	1672027	1684679	BA
Aroclor 1260	2854918	0	BA
Aroclor 1260	2854918	0	BA
Aroclor 1260	2854918	0	BA
Aroclor 1260	2854918	0	BA
Aroclor 1260	2854918	0	BA
Tetrachloro-m-xylene	1935823	1935823	
Decachlorobiphenyl	2094558	2094558	

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SAMPLE NO.

AT1-170616-01-SMB-13

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822008
Date Analyzed: 04/03/2018 18:59
Lab File ID: 040318.B\040318019.D
Initial wt/vol: 10.0052 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)	1130	
11097-69-1	PCB-1254 (Aroclor 1254)	987	
11096-82-5	PCB-1260 (Aroclor 1260)	555	
1336-36-3	PCB, Total	2670	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318019.D
Lab Smp Id: 40157822008 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 18:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822008 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
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	10.005	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.407	28786	19488	0.677	0.08		
2.484	1068421	1037577	0.971	3.01	$ 2 Tetrachloro-m-xylene	
2.848	17504	15495	0.885	0.04		
2.973	14753	12628	0.856	0.04		
3.055	42083	40044	0.952	0.11		
3.318	47855	47500	0.993	0.13		
3.345	75551	68878	0.912	0.21		
3.432	77665	67923	0.875	0.21		
3.519	117783	102361	0.869	0.33		
3.645	11048	12152	1.100	0.03		
3.731	145327	141253	0.972	0.40		
3.755	58716	57321	0.976	0.16		
3.813	483334	272690	0.564	1.36		
3.938	168181	143206	0.851	0.47		
3.994	109048	97743	0.896	0.30		
4.059	66078	56250	0.851	0.18		
4.135	22199	18273	0.823	0.06		
4.215	1003604	903672	0.900	2.82		
4.261	1088108	1032179	0.949	3.06	6 Aroclor 1248	BA
4.292	1223644	1027074	0.839	3.45		
4.417	292414	269697	0.922	0.82		
4.452	267485	233668	0.874	0.75		
4.546	656671	600116	0.914	1.85	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.589	99569	89978	0.904	0.28	
4.617	83199	69015	0.830	0.23	
4.681	99895	85262	0.854	0.28	
4.736	118172	98764	0.836	0.33	
4.768	162825	152056	0.934	0.45	
4.813	381227	349431	0.917	1.07	6 Aroclor 1248
4.848	270818	247608	0.914	0.76	
4.894	1258432	750450	0.596	3.54	6 Aroclor 1248
4.957	386352	339956	0.880	1.08	
5.037	235370	215925	0.917	0.66	6 Aroclor 1248
5.056	23812	35985	1.511	0.06	
5.101	766625	675951	0.882	2.16	
5.161	1165875	991831	0.851	3.28	7 Aroclor 1254
5.212	926176	815552	0.881	2.61	
5.284	133260	117597	0.882	0.37	
5.310	263667	215553	0.818	0.74	
5.362	305072	278757	0.914	0.86	
5.406	617469	562888	0.912	1.74	7 Aroclor 1254
5.450	1521524	1257097	0.826	4.29	
5.509	1244259	1075896	0.865	3.50	7 Aroclor 1254
5.577	117150	107491	0.918	0.33	
5.604	133276	106724	0.801	0.37	
5.674	493803	465192	0.942	1.39	
5.709	294967	221962	0.752	0.83	
5.742	314226	239446	0.762	0.88	
5.789	1812546	1317806	0.727	5.11	
5.885	199740	130228	0.652	0.56	
5.931	177121	149485	0.844	0.49	
5.994	544121	503375	0.925	1.53	
6.027	600398	547705	0.912	1.69	7 Aroclor 1254
6.055	1895654	1602291	0.845	5.34	
6.168	422485	274587	0.650	1.19	
6.227	122972	133225	1.083	0.34	
6.241	206936	165783	0.801	0.58	
6.300	2199354	1737381	0.790	6.63	7 Aroclor 1254
6.333	230985	204941	0.887	0.65	
6.373	89374	71583	0.801	0.25	
6.432	265628	220491	0.830	0.74	
6.485	22727	30093	1.324	0.06	
6.510	899533	803029	0.893	2.53	
6.534	368187	339549	0.922	1.03	
6.561	331183	283325	0.855	0.93	
6.604	72768	56800	0.781	0.20	
6.659	57635	50877	0.883	0.16	
6.718	265854	236683	0.890	0.74	
6.758	261811	223291	0.853	0.73	
6.802	289955	260060	0.897	0.81	
6.839	162358	126042	0.776	0.45	
6.912	40980	38707	0.945	0.11	
6.942	416403	370245	0.889	1.17	
7.004	1088814	943112	0.866	3.07	8 Aroclor 1260
7.032	83788	87236	1.041	0.23	
7.122	29279	20030	0.684	0.08	
7.251	443939	390586	0.880	1.25	8 Aroclor 1260
7.281	130036	109475	0.842	0.36	
7.390	388103	326033	0.840	1.09	
7.443	400851	363353	0.906	1.13	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.495	16014	11647	0.727	0.04	
7.553	20772	18511	0.891	0.05	
7.691	96305	89459	0.929	0.27	
7.728	96071	85750	0.893	0.27	
7.763	18568	16744	0.902	0.05	
7.811	142116	102858	0.724	0.40	
7.861	11085	10292	0.928	0.03	
7.900	277275	233218	0.841	0.78	8 Aroclor 1260
7.962	34896	23541	0.675	0.09	
8.049	69793	51508	0.738	0.19	
8.274	266137	228643	0.859	0.75	
8.570	1264674	1071270	0.847	3.56	$ 12 Decachlorobiphenyl
8.704	12082	14301	1.184	0.03	
8.724	56598	40615	0.718	0.15	
9.057	19120	13190	0.690	0.05	
9.170	36818	27753	0.754	0.10	
	35463119	30000262		100.000	

Total unknown % area = 60

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318019.D
Lab Smp Id: 40157822008 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 18:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822008 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
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	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

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

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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.484	2.484	0.000	1068421	0.00867	43			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1088108	0.46441	2300	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	656670	0.15822	790	0.00- 20.00	60.35	BA
4.812	4.812	0.000	381226	0.18779	940	0.00- 20.00	35.04	BA
4.894	4.879	0.015	1258432	0.24982	1200	0.00- 20.00	115.65	BA
5.036	5.038	-0.002	235370	0.06559	330	0.00- 20.00	21.63	BA
Average of Peak Concentrations =					1100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1165874	0.22270	1100	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	617469	0.14356	720	0.00- 20.00	52.96	BA
5.508	5.510	-0.002	1244259	0.16022	800	0.00- 20.00	106.72	BA
6.026	6.027	-0.001	600397	0.12329	620	0.00- 20.00	51.50	BA
6.299	6.299	0.000	2199353	0.33799	1700	0.00- 20.00	188.64	BA
Average of Peak Concentrations =					990			
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	1088813	0.10873	540	0.00- 20.00	0.00	BA
7.250	7.251	-0.001	443939	0.09288	460	0.00- 20.00	0.00	BA
7.442	7.443	-0.001	400850	0.13751	690	0.00- 20.00	0.00	BA
7.900	7.901	-0.001	277274	0.10508	520	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					550			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	1264674	0.01154	58			

QC Flag Legend

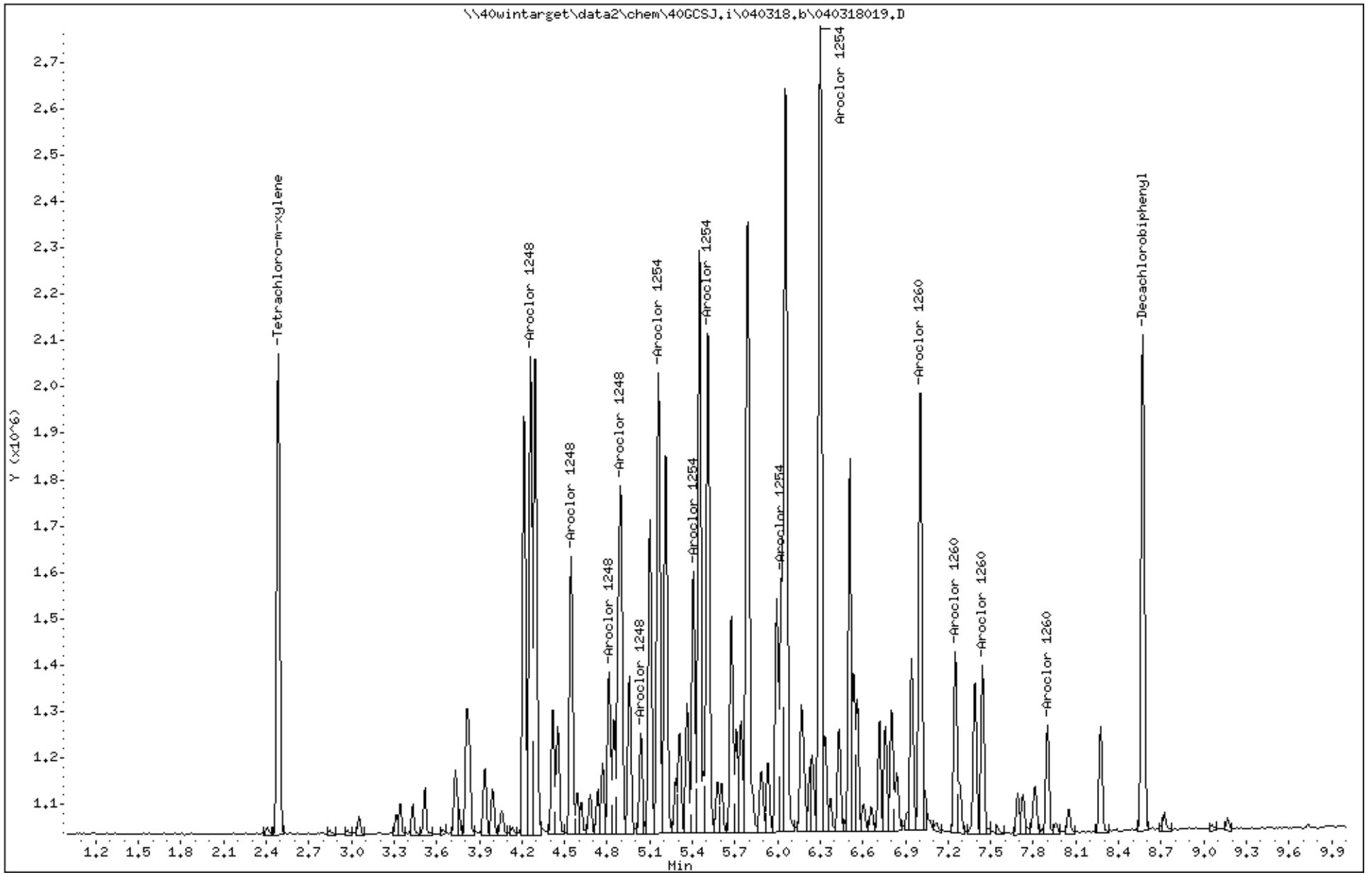
M - Compound response manually integrated.

Review Codes Legend

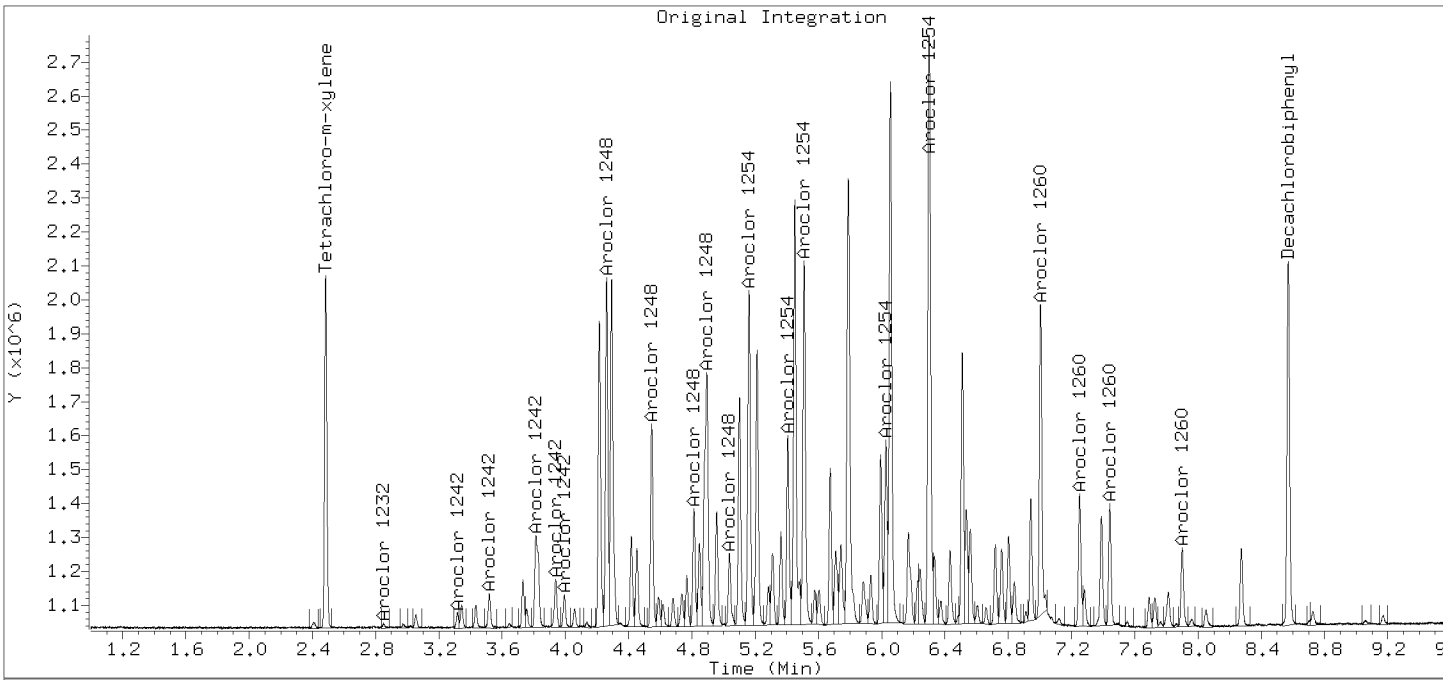
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

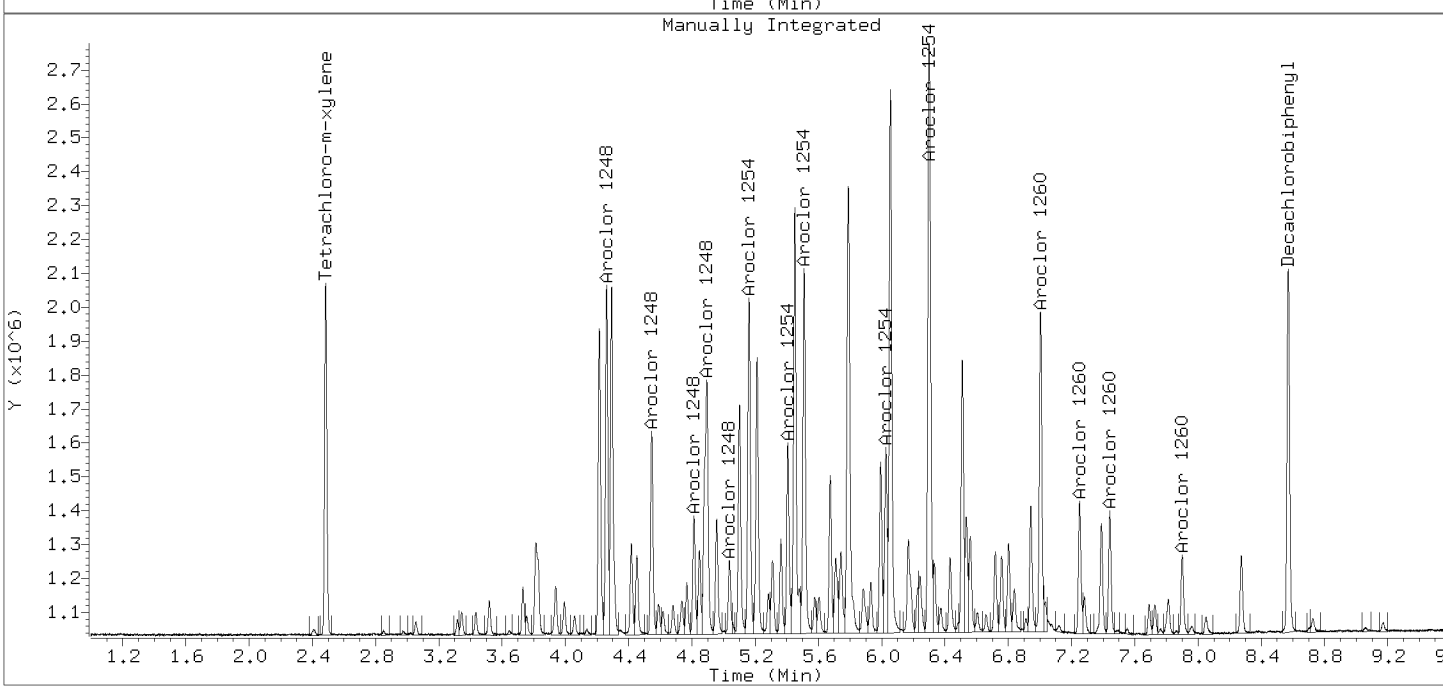
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318019.D
Date : 03-APR-2018 18:59
Client ID: AT1-170616-01-SMB-1
Sample Info: 40157822008 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 18:59 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	47854	0	
Aroclor 1016	47854	0	
Aroclor 1016	47854	0	
Aroclor 1016	47854	0	
Aroclor 1016	47854	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	17504	0	
Aroclor 1232	17504	0	
Aroclor 1232	17504	0	
Aroclor 1232	17504	0	

Aroclor 1232	17504	0	
Aroclor 1242	47854	0	
Aroclor 1242	47854	0	
Aroclor 1242	47854	0	
Aroclor 1242	47854	0	
Aroclor 1242	47854	0	
Aroclor 1248	1074150	1088108	BA
Aroclor 1248	1074150	1088108	BA
Aroclor 1248	1074150	1088108	BA
Aroclor 1248	1074150	1088108	BA
Aroclor 1248	1074150	1088108	BA
Aroclor 1254	1152020	1165874	BA
Aroclor 1254	1152020	1165874	BA
Aroclor 1254	1152020	1165874	BA
Aroclor 1254	1152020	1165874	BA
Aroclor 1254	1152020	1165874	BA
Aroclor 1260	2185985	0	BA
Aroclor 1260	2185985	0	BA
Aroclor 1260	2185985	0	BA
Aroclor 1260	2185985	0	BA
Aroclor 1260	2185985	0	BA
Tetrachloro-m-xylene	1068421	1068421	
Decachlorobiphenyl	1264674	1264674	

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SAMPLE NO.

AT1-170616-01-SMB-12

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/03/2017 10:20

Matrix: Tissue SDG No.: 40157822

Date Extracted: 04/02/2018 07:11

Lab Sample ID: 40157822009

Date Analyzed: 04/03/2018 19:14

Lab File ID: 040318.B\040318020.D

Initial wt/vol: 10.0074 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)	209	
11097-69-1	PCB-1254 (Aroclor 1254)	142	
11096-82-5	PCB-1260 (Aroclor 1260)	149	
1336-36-3	PCB, Total	500	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318020.D
Lab Smp Id: 40157822009 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 19:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822009,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.685	10554	9404	0.891	0.01		
2.202	75717	43063	0.569	0.08		
2.314	10730	8707	0.811	0.01		
2.411	83596	66250	0.792	0.09		
2.485	10673381	9872741	0.925	13.23	$ 2 Tetrachloro-m-xylene	
2.790	29999	25452	0.848	0.03		
2.850	54821	41013	0.748	0.06		
2.973	58172	43477	0.747	0.06		
3.019	25257	22518	0.892	0.02		
3.055	137149	124186	0.905	0.16		
3.318	140943	135537	0.962	0.16		
3.344	202419	190187	0.940	0.24		
3.434	222506	208767	0.938	0.26		
3.520	313088	283102	0.904	0.37		
3.644	37703	30028	0.796	0.04		
3.733	306287	297145	0.970	0.36		
3.755	123732	124505	1.006	0.14		
3.814	590508	648873	1.099	0.70		
3.826	622561	619159	0.995	0.73		
3.940	325859	273083	0.838	0.38		
3.993	267246	246641	0.923	0.31		
4.059	150508	134742	0.895	0.17		
4.137	42450	39530	0.931	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.215	1925867	1723536	0.895	2.28	
4.261	1945744	1789342	0.920	2.31	6 Aroclor 1248
4.293	2198804	1789626	0.814	2.61	
4.349	33050	27272	0.825	0.03	
4.417	707427	667791	0.944	0.83	
4.452	581463	531039	0.913	0.69	
4.545	1415370	1289143	0.911	1.68	6 Aroclor 1248
4.590	151189	136298	0.902	0.17	
4.617	194771	172115	0.884	0.23	
4.681	146038	129577	0.887	0.17	
4.736	193788	161944	0.836	0.23	
4.768	285966	264371	0.924	0.33	
4.813	686203	648644	0.945	0.81	6 Aroclor 1248
4.848	571964	527092	0.922	0.67	
4.894	2223433	1283394	0.577	2.63	6 Aroclor 1248
4.956	643804	547516	0.850	0.76	
5.038	512042	473690	0.925	0.60	6 Aroclor 1248
5.057	41074	64221	1.564	0.04	
5.101	1317517	1128305	0.856	1.56	
5.161	1917838	1627824	0.849	2.27	7 Aroclor 1254
5.212	1529785	1325104	0.866	1.81	
5.283	202998	188526	0.929	0.24	
5.311	461368	388566	0.842	0.54	
5.362	533208	482162	0.904	0.63	
5.407	1087120	970469	0.893	1.29	7 Aroclor 1254
5.450	2082405	1866075	0.896	2.47	
5.477	228977	225605	0.985	0.27	
5.510	2247972	1998365	0.889	2.66	7 Aroclor 1254
5.578	171469	161221	0.940	0.20	
5.604	245186	209809	0.856	0.29	
5.675	818052	764209	0.934	0.97	
5.709	497925	377507	0.758	0.59	
5.743	499246	383735	0.769	0.59	
5.789	2769826	2197958	0.794	3.28	
5.818	140489	169416	1.206	0.16	
5.885	344114	218137	0.634	0.40	
5.930	280065	229220	0.818	0.33	
5.994	918317	870905	0.948	1.09	
6.026	1108133	939859	0.848	1.31	7 Aroclor 1254
6.055	3365946	2893465	0.860	3.99	
6.169	839299	545870	0.650	0.99	
6.243	574584	294913	0.513	0.68	
6.301	3889320	3121259	0.803	4.61	8 Aroclor 1260
6.334	391154	358786	0.917	0.46	
6.375	145414	118111	0.812	0.17	
6.432	473552	401545	0.848	0.56	
6.510	2120622	1846929	0.871	2.51	
6.535	641373	629058	0.981	0.76	
6.561	710895	629072	0.885	0.84	
6.605	79108	70306	0.889	0.09	
6.659	123922	118295	0.955	0.14	
6.718	674444	619130	0.918	0.80	
6.759	677970	599577	0.884	0.80	
6.802	543049	497489	0.916	0.64	
6.839	319458	254492	0.797	0.37	
6.913	87104	89936	1.033	0.10	
6.942	816252	762674	0.934	0.96	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.005	2512336	2247181	0.894	2.98	8 Aroclor 1260
7.036	234288	199178	0.850	0.27	
7.076	32706	35428	1.083	0.03	
7.103	9823	14934	1.520	0.01	
7.122	61618	54228	0.880	0.07	
7.251	999807	890551	0.891	1.18	8 Aroclor 1260
7.281	288408	239137	0.829	0.34	
7.328	16287	13229	0.812	0.01	
7.390	966182	850996	0.881	1.14	
7.443	957234	847286	0.885	1.13	8 Aroclor 1260
7.551	44288	34768	0.785	0.05	
7.621	8278	6824	0.824	0.00	
7.690	247177	226480	0.916	0.29	
7.727	273462	235857	0.862	0.32	
7.762	31052	29443	0.948	0.03	
7.812	283780	206843	0.729	0.33	
7.863	19612	17638	0.899	0.02	
7.899	706216	634207	0.898	0.83	8 Aroclor 1260
7.958	75175	47280	0.629	0.08	
8.049	315404	275845	0.875	0.37	
8.274	650065	584971	0.900	0.77	
8.378	28806	16770	0.582	0.03	
8.571	10259411	8680366	0.846	12.18	$ 12 Decachlorobiphenyl
8.703	25547	28920	1.132	0.03	
8.725	117786	91804	0.779	0.13	
8.835	13008	10503	0.807	0.01	
8.891	10182	7699	0.756	0.01	
9.055	60292	50737	0.842	0.07	
9.169	81825	73183	0.894	0.09	
9.469	19357	11625	0.601	0.02	
9.734	18977	15159	0.799	0.02	
9.962	16288	12599	0.774	0.01	
	84223338	72980274		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318020.D
Lab Smp Id: 40157822009 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 19:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822009,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.007	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		
2.485	2.484	0.001	10673381	0.08657	43			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1945744	0.83046	410	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	1415370	0.34103	170	0.00- 20.00	72.74	CO
4.812	4.812	0.000	686203	0.33802	170	0.00- 20.00	35.27	CO
4.893	4.879	0.014	2223432	0.44138	220	0.00- 20.00	114.27	CO
5.037	5.038	-0.001	512041	0.14269	71	0.00- 20.00	26.32	CO
			Average of Peak Concentrations =		210			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1917838	0.36633	180	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1087120	0.25276	130	0.00- 20.00	56.68	BA
5.509	5.510	-0.001	2247971	0.28946	140	0.00- 20.00	117.21	BA
6.026	6.027	-0.001	1108132	0.22756	110	0.00- 20.00	57.78	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		140			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	3889319	0.43886	220	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	2512336	0.25087	120	0.00- 20.00	64.60	BA
7.250	7.251	-0.001	999806	0.20917	100	0.00- 20.00	25.71	BA
7.443	7.443	0.000	957233	0.32837	160	0.00- 20.00	24.61	BA
7.898	7.901	-0.003	706216	0.26763	130	0.00- 20.00	18.16	BA
			Average of Peak Concentrations =		150			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10259410	0.09364	47			

QC Flag Legend

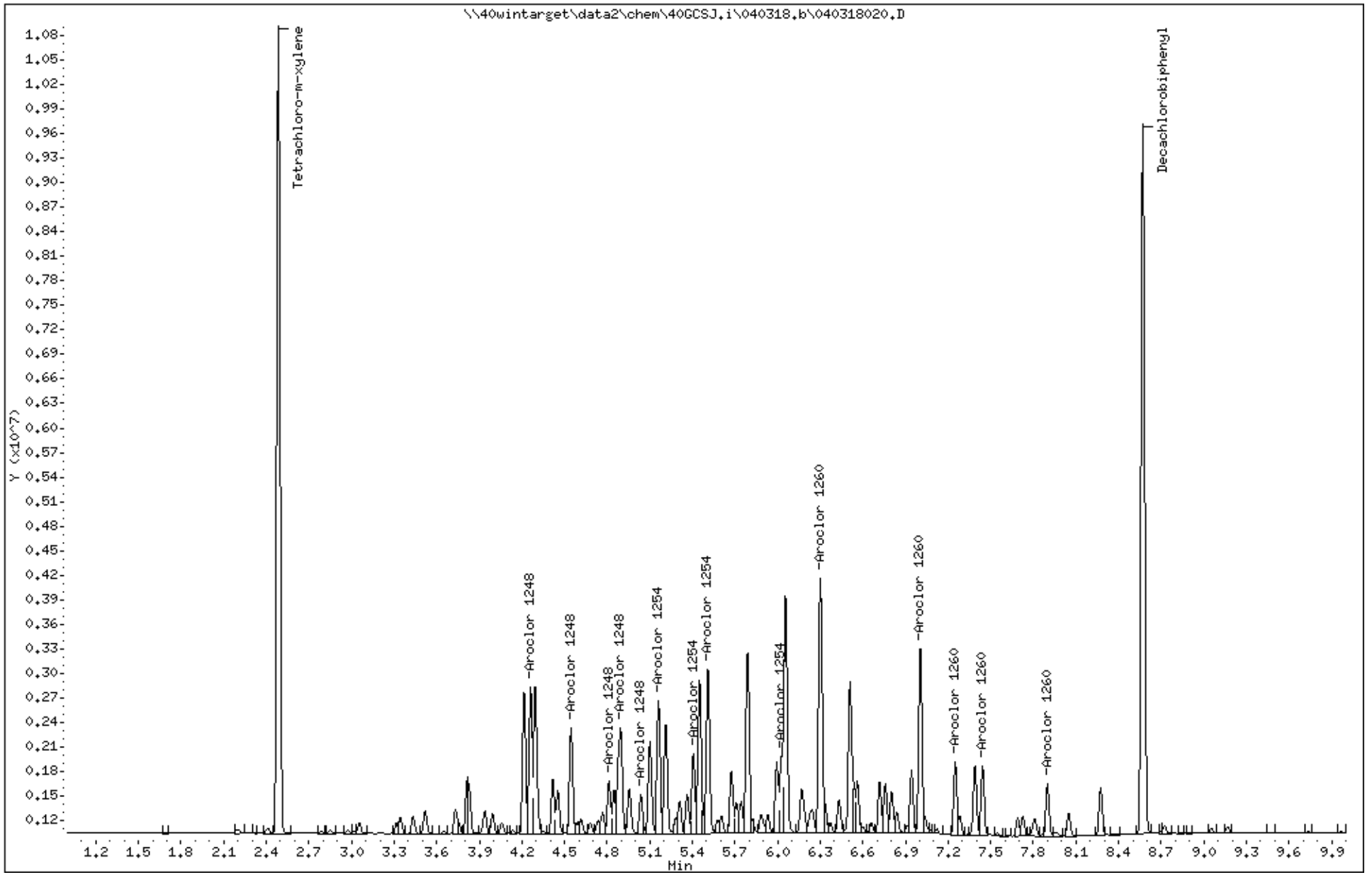
M - Compound response manually integrated.

Review Codes Legend

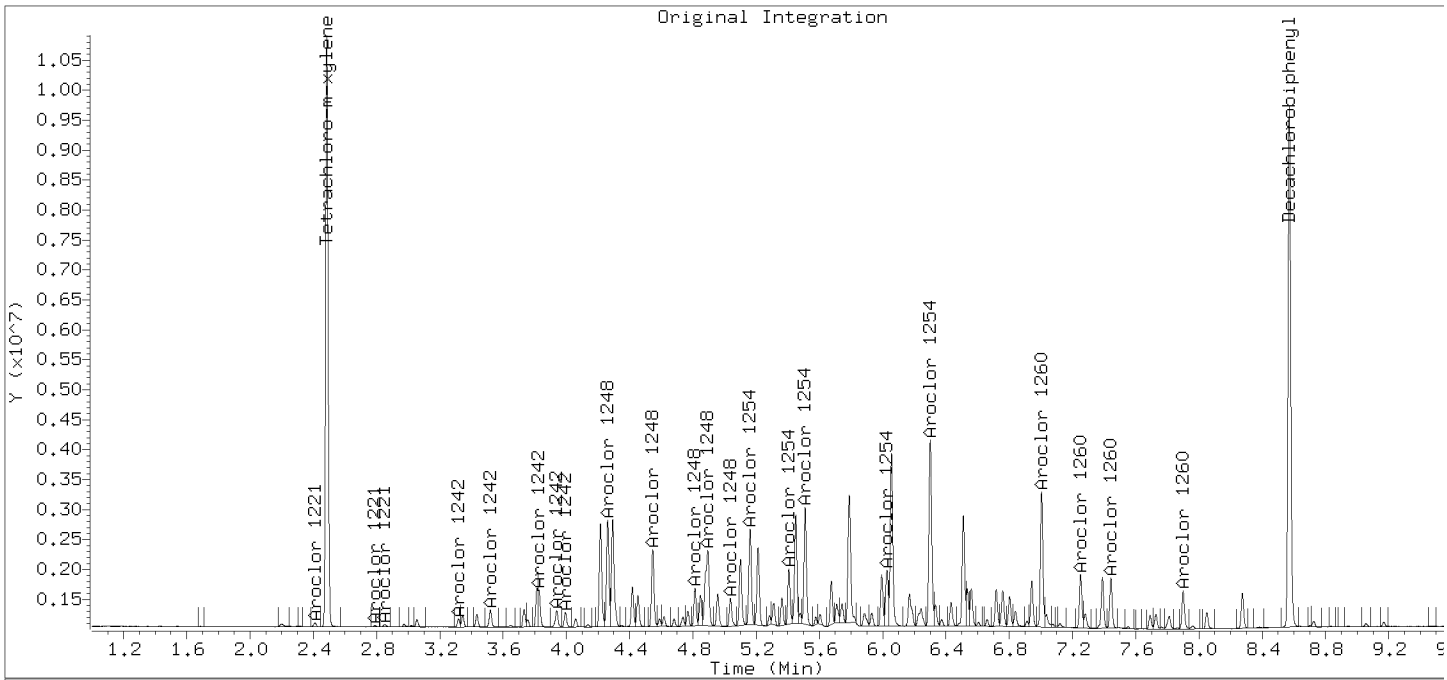
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

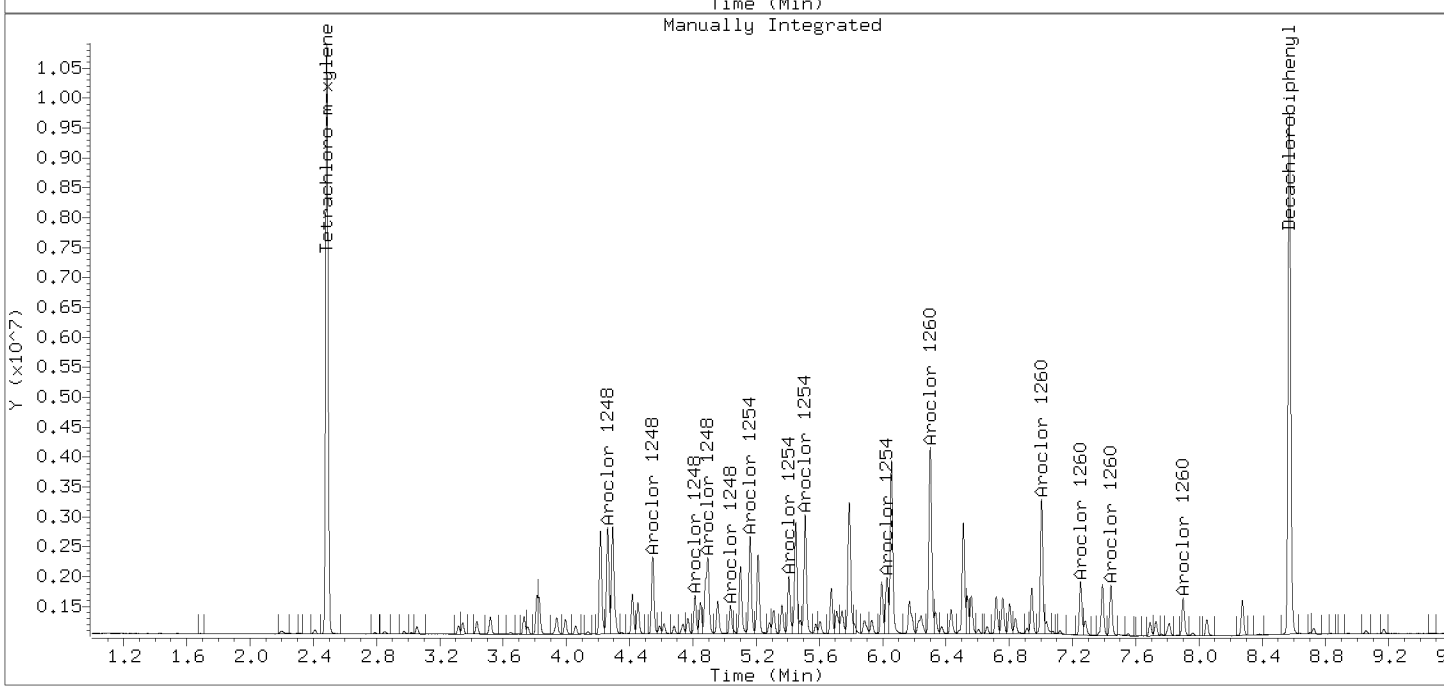
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318020.D
Date : 03-APR-2018 19:14
Client ID: AT1-170616-01-SMB-1
Sample Info: 40157822009,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 19:14 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	140943	0	
Aroclor 1016	140943	0	
Aroclor 1016	140943	0	
Aroclor 1016	140943	0	
Aroclor 1016	140943	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	54820	0	
Aroclor 1232	54820	0	
Aroclor 1232	54820	0	
Aroclor 1232	54820	0	

Aroclor 1232	54820	0	
Aroclor 1242	140943	0	
Aroclor 1242	140943	0	
Aroclor 1242	140943	0	
Aroclor 1242	140943	0	
Aroclor 1242	140943	0	
Aroclor 1248	1936796	1945744	CO
Aroclor 1248	1936796	1945744	CO
Aroclor 1248	1936796	1945744	CO
Aroclor 1248	1936796	1945744	CO
Aroclor 1248	1936796	1945744	CO
Aroclor 1254	1805159	1917838	BA
Aroclor 1254	1805159	1917838	BA
Aroclor 1254	1805159	1917838	BA
Aroclor 1254	1805159	1917838	BA
Aroclor 1254	1805159	1917838	BA
Aroclor 1260	3866545	3889319	BA
Aroclor 1260	3866545	3889319	BA
Aroclor 1260	3866545	3889319	BA
Aroclor 1260	3866545	3889319	BA
Aroclor 1260	3866545	3889319	BA
Tetrachloro-m-xylene	10673381	10673381	
Decachlorobiphenyl	10259410	10259410	

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SAMPLE NO.

AT1-170616-01-SMB-11

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822010
Date Analyzed: 04/03/2018 19:30
Lab File ID: 040318.B\040318021.D
Initial wt/vol: 9.9831 g Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.3	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.3	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.3	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.3	U
12672-29-6	PCB-1248 (Aroclor 1248)	512	
11097-69-1	PCB-1254 (Aroclor 1254)	400	
11096-82-5	PCB-1260 (Aroclor 1260)	376	
1336-36-3	PCB, Total	1290	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318021.D
Lab Smp Id: 40157822010 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 19:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822010 x3,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.983	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.170	11790	8230	0.698	0.01		
2.314	10310	9798	0.950	0.01		
2.410	41981	33527	0.799	0.06		
2.484	3483005	3365049	0.966	5.65	$ 2 Tetrachloro-m-xylene	
2.787	14930	12684	0.850	0.02		
2.851	27244	21947	0.806	0.04		
2.975	32535	22560	0.693	0.05		
3.019	16632	14464	0.870	0.02		
3.055	75174	66848	0.889	0.12		
3.317	70394	70247	0.998	0.11		
3.345	94613	87237	0.922	0.15		
3.434	98482	93264	0.947	0.15		
3.520	166374	148807	0.894	0.27		
3.646	19672	15268	0.776	0.03		
3.731	206855	201638	0.975	0.33		
3.755	80437	79805	0.992	0.13		
3.814	772675	436600	0.565	1.25		
3.939	211915	180065	0.850	0.34		
3.993	154336	144548	0.937	0.25		
4.058	89655	72400	0.808	0.14		
4.137	29196	22053	0.755	0.04		
4.215	1449408	1328034	0.916	2.35		
4.261	1558345	1472519	0.945	2.53	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	1919052	1610592	0.839	3.11	
4.417	423162	400925	0.947	0.68	
4.452	394296	353609	0.897	0.64	
4.547	1010749	934350	0.924	1.64	6 Aroclor 1248
4.588	161087	146211	0.908	0.26	
4.619	125807	103359	0.822	0.20	
4.682	154284	137962	0.894	0.25	
4.737	203559	177235	0.871	0.33	
4.769	256536	234184	0.913	0.41	
4.813	619969	591478	0.954	1.00	6 Aroclor 1248
4.848	455836	431138	0.946	0.74	
4.894	1911156	1106600	0.579	3.10	6 Aroclor 1248
4.957	635524	550326	0.866	1.03	
5.038	400060	360680	0.902	0.64	6 Aroclor 1248
5.057	28537	47720	1.672	0.04	
5.101	1217212	1066549	0.876	1.97	
5.162	1813484	1532969	0.845	2.94	7 Aroclor 1254
5.212	1502074	1273730	0.848	2.43	
5.285	209863	199759	0.952	0.34	
5.311	408538	330937	0.810	0.66	
5.363	466802	420873	0.902	0.75	
5.407	1016519	921078	0.906	1.65	7 Aroclor 1254
5.452	1748111	1522594	0.871	2.83	
5.479	208558	204520	0.981	0.33	
5.510	2041485	1709921	0.838	3.31	7 Aroclor 1254
5.578	203722	188574	0.926	0.33	
5.604	207281	174439	0.842	0.33	
5.675	790676	738618	0.934	1.28	
5.710	488843	375077	0.767	0.79	
5.744	541620	424500	0.784	0.87	
5.790	2955626	2136985	0.723	4.80	
5.884	326842	222369	0.680	0.53	
5.932	325869	275201	0.845	0.52	
5.994	951025	860752	0.905	1.54	
6.027	1074108	941636	0.877	1.74	7 Aroclor 1254
6.056	3032752	2583746	0.852	4.92	
6.170	715284	465191	0.650	1.16	
6.229	201309	226017	1.123	0.32	
6.243	381261	289810	0.760	0.61	
6.300	3696713	2949202	0.798	6.00	8 Aroclor 1260
6.333	385758	335912	0.871	0.62	
6.373	147304	116257	0.789	0.23	
6.434	503142	421526	0.838	0.81	
6.510	1673598	1456150	0.870	2.71	
6.536	636358	582752	0.916	1.03	
6.561	557494	511310	0.917	0.90	
6.605	106056	87003	0.820	0.17	
6.661	96107	89088	0.927	0.15	
6.719	523651	470590	0.899	0.85	
6.759	546332	484504	0.887	0.88	
6.803	514930	456838	0.887	0.83	
6.839	311803	252140	0.809	0.50	
6.913	86912	82837	0.953	0.14	
6.943	639228	590802	0.924	1.03	
7.005	1932275	1686467	0.873	3.13	8 Aroclor 1260
7.035	219039	149987	0.685	0.35	
7.100	10885	15251	1.401	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.121	53092	43029	0.810	0.08	
7.252	785525	716074	0.912	1.27	8 Aroclor 1260
7.281	231823	194926	0.841	0.37	
7.390	773806	677399	0.875	1.25	
7.445	795620	699471	0.879	1.29	8 Aroclor 1260
7.491	22805	15843	0.695	0.03	
7.551	35549	30875	0.869	0.05	
7.616	15658	11788	0.753	0.02	
7.692	174511	169916	0.974	0.28	
7.728	229499	196355	0.856	0.37	
7.764	29020	27076	0.933	0.04	
7.812	232367	166856	0.718	0.37	
7.867	19235	16008	0.832	0.03	
7.902	541761	479197	0.885	0.87	8 Aroclor 1260
7.961	65835	42206	0.641	0.10	
8.049	225757	189846	0.841	0.36	
8.276	550754	499751	0.907	0.89	
8.375	17386	12352	0.710	0.02	
8.572	3713013	3076331	0.829	6.56	$ 12 Decachlorobiphenyl
8.726	100023	67890	0.679	0.16	
9.057	47768	35782	0.749	0.07	
9.170	58233	48142	0.827	0.09	
9.742	15772	13232	0.839	0.02	
	61566829	52348767		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318021.D
Lab Smp Id: 40157822010 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 19:30
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822010 x3,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.983	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.484	2.484	0.000	3483005	0.02825	42			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1558344	0.66511	1000	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	1010749	0.24354	360	0.00- 20.00	64.86	BA
4.812	4.812	0.000	619969	0.30539	460	0.00- 20.00	39.78	BA
4.893	4.879	0.014	1911155	0.37939	570	0.00- 20.00	122.64	BA
5.037	5.038	-0.001	400060	0.11148	170	0.00- 20.00	25.67	BA
Average of Peak Concentrations =					510			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1813483	0.34640	520	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	1016519	0.23634	360	0.00- 20.00	56.05	BA
5.509	5.510	-0.001	2041484	0.26287	390	0.00- 20.00	112.57	BA
6.026	6.027	-0.001	1074108	0.22057	330	0.00- 20.00	59.23	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	3696712	0.41713	630	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1932274	0.19295	290	0.00- 20.00	52.27	BA
7.251	7.251	0.000	785524	0.16434	250	0.00- 20.00	21.25	BA
7.444	7.443	0.001	795619	0.27293	410	0.00- 20.00	21.52	BA
7.901	7.901	0.000	541761	0.20531	310	0.00- 20.00	14.66	BA
Average of Peak Concentrations =					380			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	3713013	0.03389	51			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318021.D

Date : 03-APR-2018 19:30

Client ID: AT1-170616-01-SMB-1

Instrument: 40GCSJ.i

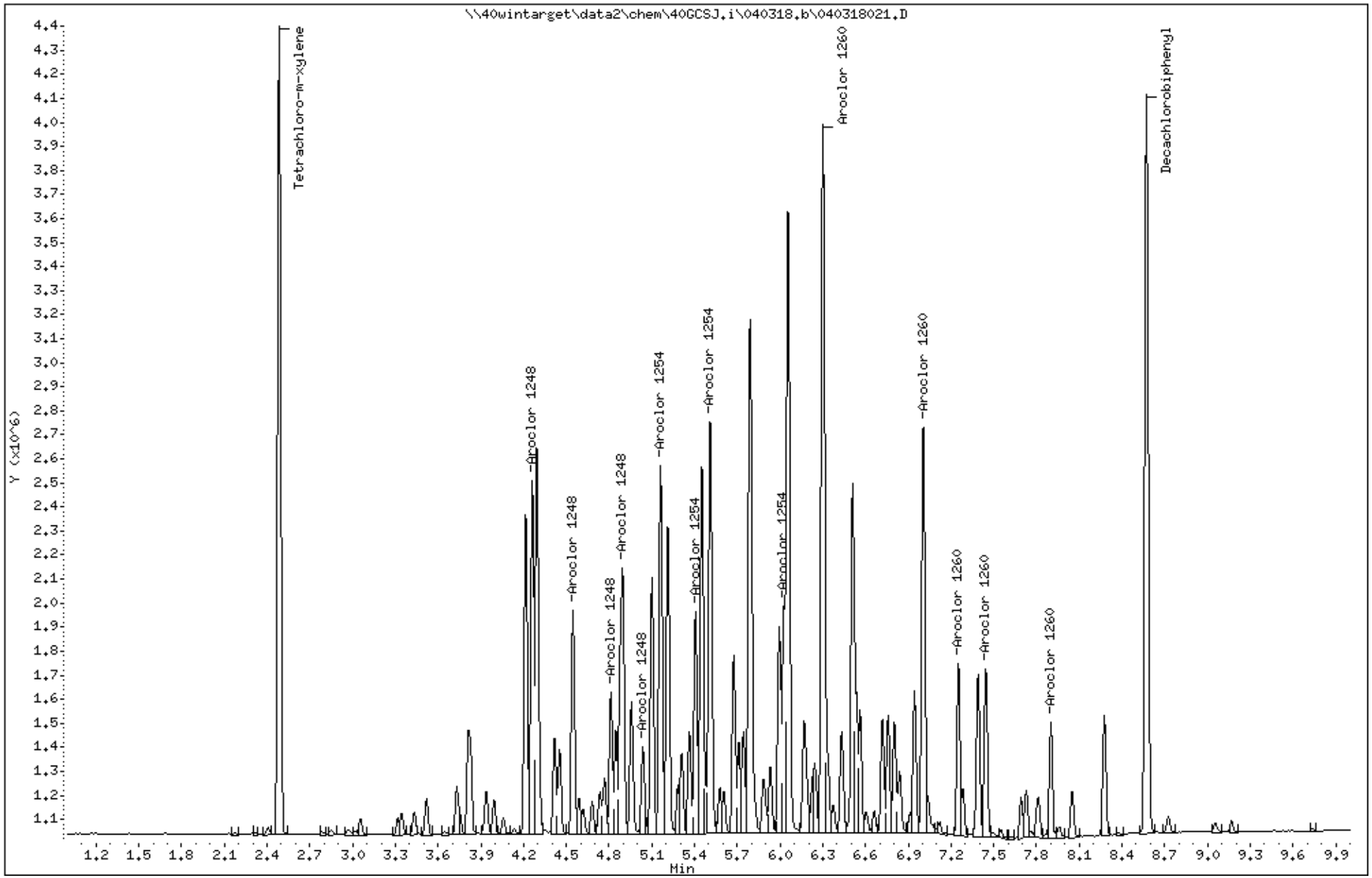
Sample Info: 40157822010 x3,

Volume Injected (uL): 1.0

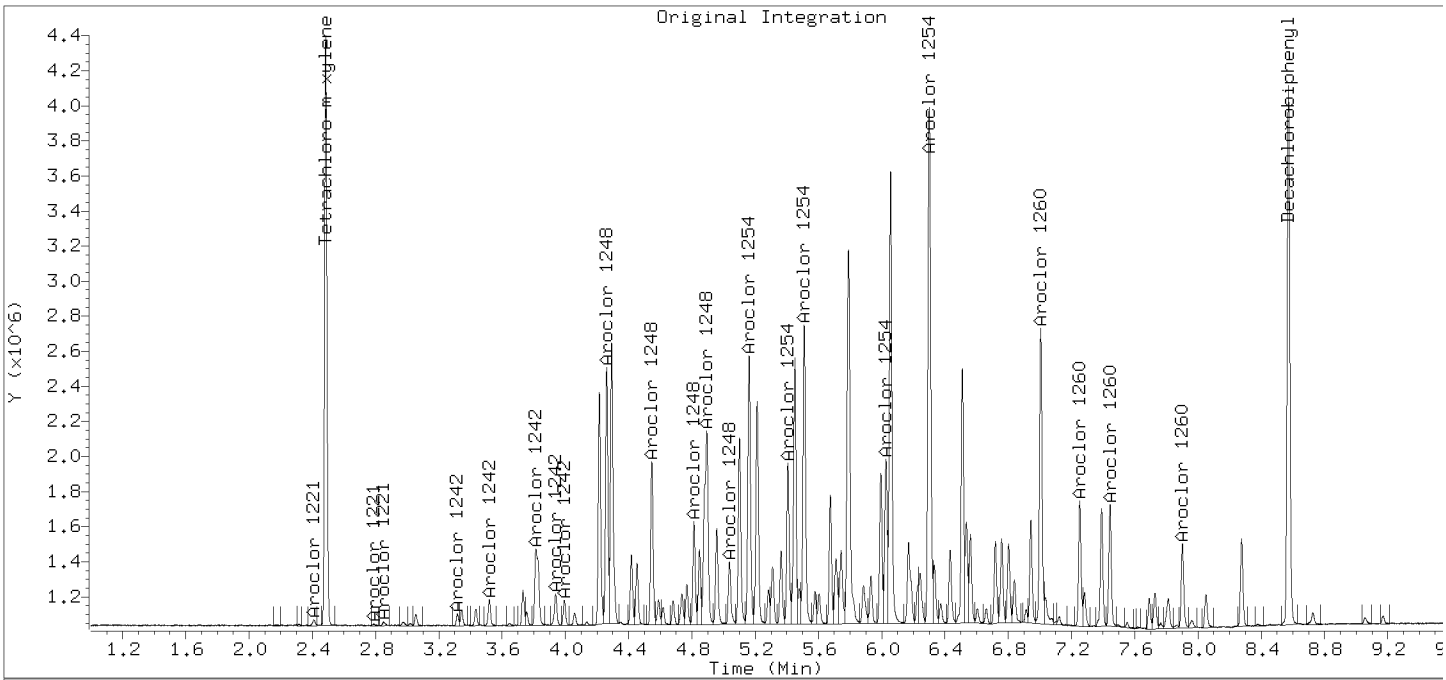
Operator: BLM

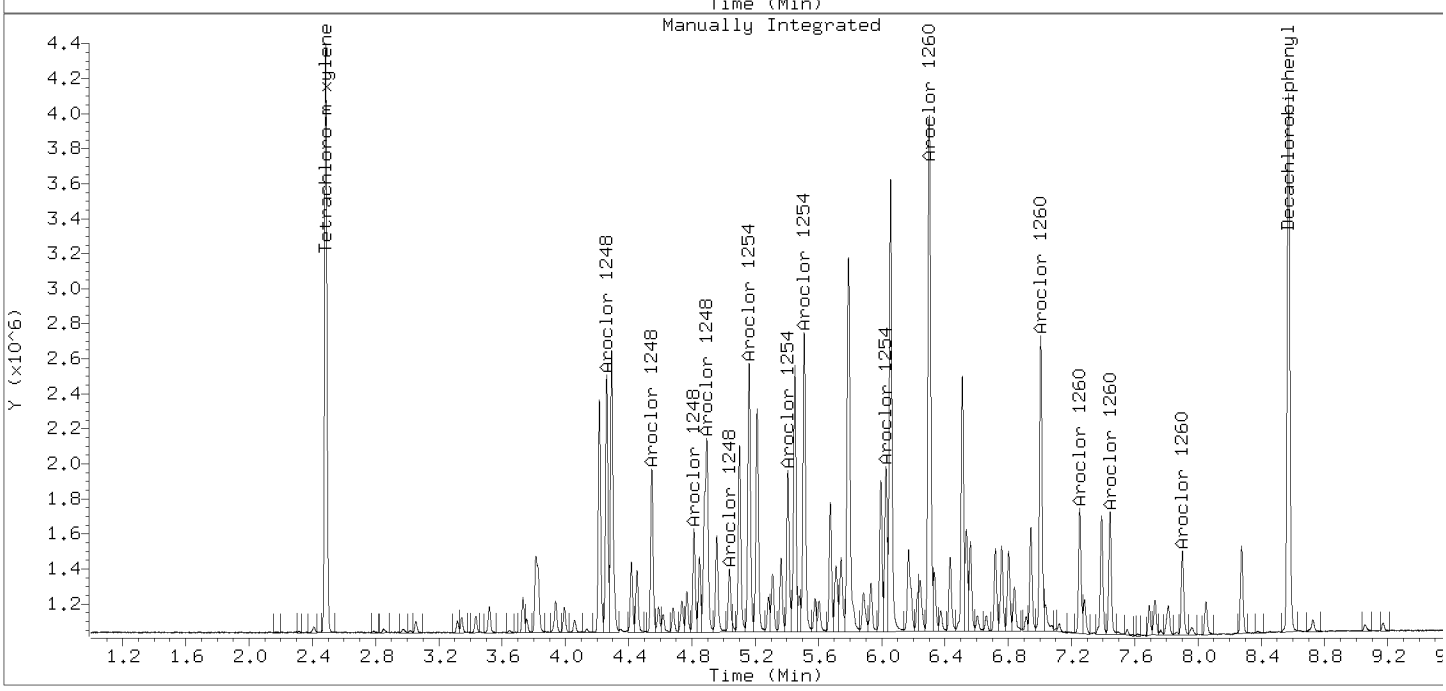
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 19:30 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	70394	0	
Aroclor 1016	70394	0	
Aroclor 1016	70394	0	
Aroclor 1016	70394	0	
Aroclor 1016	70394	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	27243	0	
Aroclor 1232	27243	0	
Aroclor 1232	27243	0	
Aroclor 1232	27243	0	

Aroclor 1232	27243	0	
Aroclor 1242	70394	0	
Aroclor 1242	70394	0	
Aroclor 1242	70394	0	
Aroclor 1242	70394	0	
Aroclor 1242	70394	0	
Aroclor 1248	1532839	1558344	BA
Aroclor 1248	1532839	1558344	BA
Aroclor 1248	1532839	1558344	BA
Aroclor 1248	1532839	1558344	BA
Aroclor 1248	1532839	1558344	BA
Aroclor 1254	1800784	1813483	BA
Aroclor 1254	1800784	1813483	BA
Aroclor 1254	1800784	1813483	BA
Aroclor 1254	1800784	1813483	BA
Aroclor 1254	1800784	1813483	BA
Aroclor 1260	3677943	3696712	BA
Aroclor 1260	3677943	3696712	BA
Aroclor 1260	3677943	3696712	BA
Aroclor 1260	3677943	3696712	BA
Aroclor 1260	3677943	3696712	BA
Tetrachloro-m-xylene	3483005	3483005	
Decachlorobiphenyl	3713013	3713013	

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SAMPLE NO.

AT1-170616-01-SMB-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822011
Date Analyzed: 04/03/2018 19:46
Lab File ID: 040318.B\040318022.D
Initial wt/vol: 10.0178 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)	1500	
11097-69-1	PCB-1254 (Aroclor 1254)	1200	
11096-82-5	PCB-1260 (Aroclor 1260)	1180	
1336-36-3	PCB, Total	3880	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318022.D
Lab Smp Id: 40157822011 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 19:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822011 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
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	10.018	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	30672	23680	0.772	0.05		
2.484	1291550	1229174	0.952	2.40	$ 2 Tetrachloro-m-xylene	
2.854	20882	15654	0.750	0.03		
2.975	18144	13470	0.742	0.03		
3.021	11247	10979	0.976	0.02		
3.054	49397	43573	0.882	0.09		
3.316	74599	74200	0.995	0.13		
3.343	123988	109440	0.883	0.23		
3.433	93641	87971	0.939	0.17		
3.519	157488	141096	0.896	0.29		
3.648	12979	11807	0.910	0.02		
3.731	168806	165815	0.982	0.31		
3.756	81284	77619	0.955	0.15		
3.812	588121	324352	0.552	1.09		
3.938	215109	182920	0.850	0.40		
3.993	149416	132376	0.886	0.27		
4.057	92180	78106	0.847	0.17		
4.136	36107	28106	0.778	0.06		
4.214	1280821	1164195	0.909	2.38		
4.260	1481455	1409962	0.952	2.76	6 Aroclor 1248	BA
4.291	1586262	1291928	0.814	2.95		
4.417	438986	418186	0.953	0.81		
4.452	348515	315332	0.905	0.65		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.546	939353	854218	0.909	1.75	6 Aroclor 1248
4.588	113439	104131	0.918	0.21	
4.617	125622	113562	0.904	0.23	
4.682	128901	115786	0.898	0.24	
4.736	169078	146473	0.866	0.31	
4.768	189289	176754	0.934	0.35	
4.812	455141	430950	0.947	0.84	6 Aroclor 1248
4.847	328813	301726	0.918	0.61	
4.894	1769796	1162050	0.657	3.30	6 Aroclor 1248
4.957	593679	530107	0.893	1.10	
5.037	262072	236322	0.902	0.48	6 Aroclor 1248
5.056	24375	38631	1.585	0.04	
5.100	1185625	1061048	0.895	2.21	
5.161	1746192	1483226	0.849	3.25	7 Aroclor 1254
5.212	1431502	1254218	0.876	2.67	
5.283	203743	195708	0.961	0.38	
5.310	411004	338846	0.824	0.76	
5.363	456986	420576	0.920	0.85	
5.407	896240	817364	0.912	1.67	7 Aroclor 1254
5.451	2290695	2084899	0.910	4.27	
5.476	221909	229199	1.033	0.41	
5.509	1818311	1564113	0.860	3.39	7 Aroclor 1254
5.577	197558	185780	0.940	0.36	
5.604	178642	154900	0.867	0.33	
5.675	839758	795046	0.947	1.56	
5.710	493200	376129	0.763	0.91	
5.743	486596	387331	0.796	0.90	
5.789	2719536	1998797	0.735	5.07	
5.883	317628	211631	0.666	0.59	
5.931	265462	234992	0.885	0.49	
5.992	918995	838062	0.912	1.71	
6.028	897649	786532	0.876	1.67	7 Aroclor 1254
6.055	3103815	2620453	0.844	5.78	
6.169	700811	453998	0.648	1.30	
6.228	185886	212733	1.144	0.34	
6.242	334921	253398	0.757	0.62	
6.300	3493185	2756357	0.789	7.00	8 Aroclor 1260
6.334	363849	316103	0.869	0.67	
6.372	136135	110257	0.810	0.25	
6.431	429305	362460	0.844	0.80	
6.510	1581980	1352456	0.855	2.95	
6.535	584524	553908	0.948	1.09	
6.561	571602	504473	0.883	1.06	
6.604	117340	93868	0.800	0.21	
6.660	96144	90567	0.942	0.17	
6.717	441676	399289	0.904	0.82	
6.757	383656	317245	0.827	0.71	
6.802	491523	433035	0.881	0.91	
6.838	276071	209857	0.760	0.51	
6.911	69078	72490	1.049	0.12	
6.942	833306	752438	0.903	1.55	
7.004	1909106	1651600	0.865	3.56	8 Aroclor 1260
7.035	135994	141633	1.041	0.25	
7.122	30301	23375	0.771	0.05	
7.250	760740	662065	0.870	1.41	8 Aroclor 1260
7.282	214340	173817	0.811	0.39	
7.390	689355	595034	0.863	1.28	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.442	748500	668436	0.893	1.39	8 Aroclor 1260
7.493	24367	18186	0.746	0.04	
7.552	33940	27496	0.810	0.06	
7.690	169250	149169	0.881	0.31	
7.729	152006	133085	0.876	0.28	
7.763	31327	26635	0.850	0.05	
7.813	269565	201147	0.746	0.50	
7.864	16017	15825	0.988	0.02	
7.900	474403	405699	0.855	0.88	8 Aroclor 1260
7.960	64444	41341	0.642	0.12	
8.051	74894	59669	0.797	0.13	
8.275	455793	392643	0.861	0.85	
8.571	1507775	1291896	0.857	2.81	$ 12 Decachlorobiphenyl
8.704	10282	17056	1.659	0.01	
8.726	99217	69760	0.703	0.18	
9.059	30612	18722	0.612	0.05	
9.170	73231	64189	0.877	0.13	
9.739	15504	12775	0.824	0.02	
	53614210	45705686		100.000	

Total unknown % area = 61

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318022.D
Lab Smp Id: 40157822011 Client Smp ID: AT1-170616-01-SMB-1
Inj Date : 03-APR-2018 19:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822011 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
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	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

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

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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.484	2.484	0.000	1291550	0.01048	52			

---

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	1481455	0.63230	3200	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	939352	0.22633	1100	0.00- 20.00	63.41	BA
4.811	4.812	-0.001	455141	0.22420	1100	0.00- 20.00	30.72	BA
4.894	4.879	0.015	1769796	0.35133	1800	0.00- 20.00	119.46	BA
5.036	5.038	-0.002	262071	0.07303	360	0.00- 20.00	17.69	BA
Average of Peak Concentrations =					1500			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1746191	0.33355	1700	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	896239	0.20838	1000	0.00- 20.00	51.33	BA
5.509	5.510	-0.001	1818310	0.23414	1200	0.00- 20.00	104.13	BA
6.028	6.027	0.001	897648	0.18433	920	0.00- 20.00	51.41	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					1200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	3493184	0.39416	2000	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	1909105	0.19064	950	0.00- 20.00	54.65	BA
7.250	7.251	-0.001	760740	0.15916	790	0.00- 20.00	21.78	BA
7.442	7.443	-0.001	748499	0.25677	1300	0.00- 20.00	21.43	BA
7.899	7.901	-0.002	474403	0.17978	900	0.00- 20.00	13.58	BA
Average of Peak Concentrations =					1200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	1507775	0.01376	69			

QC Flag Legend

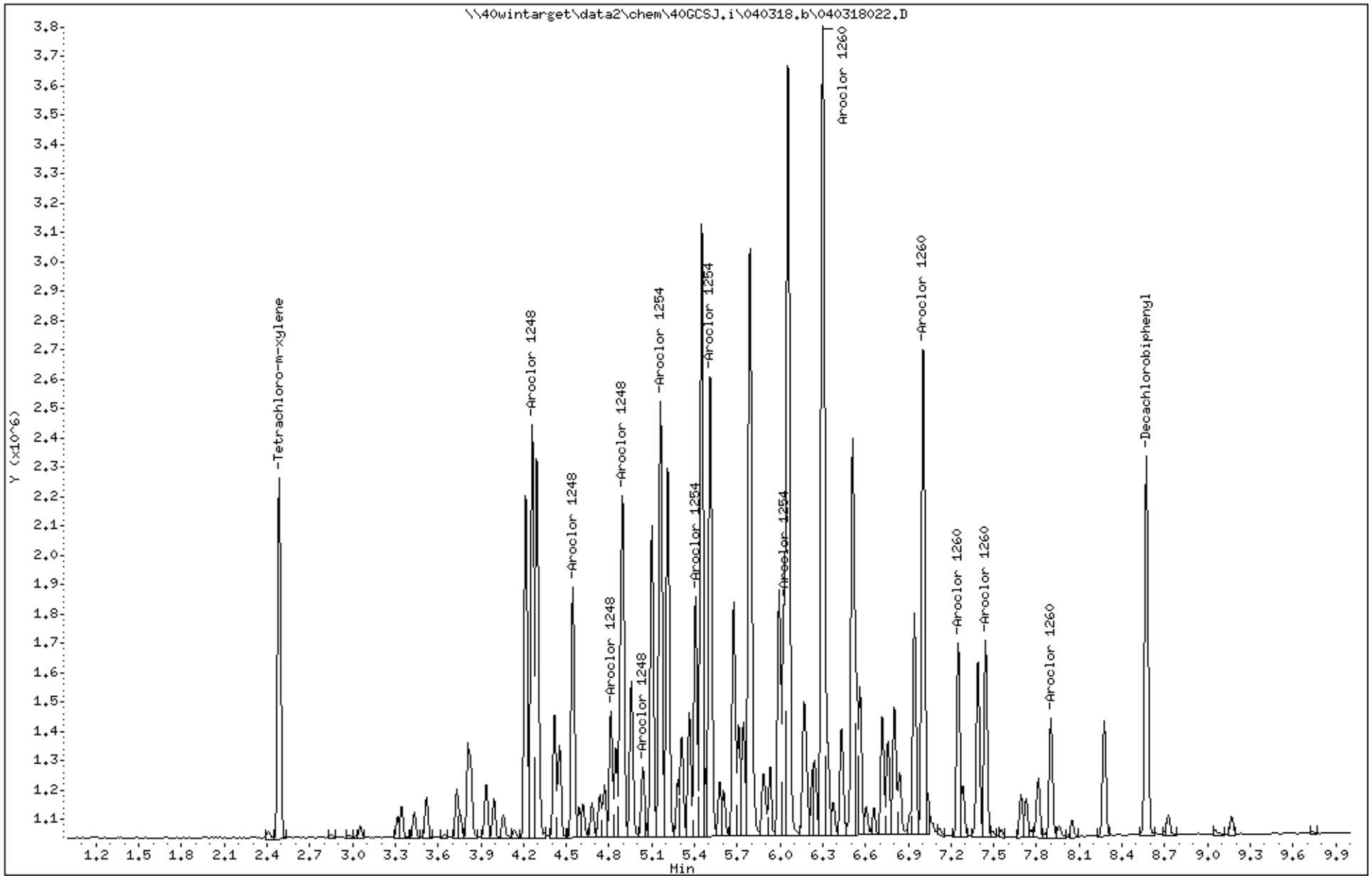
M - Compound response manually integrated.

Review Codes Legend

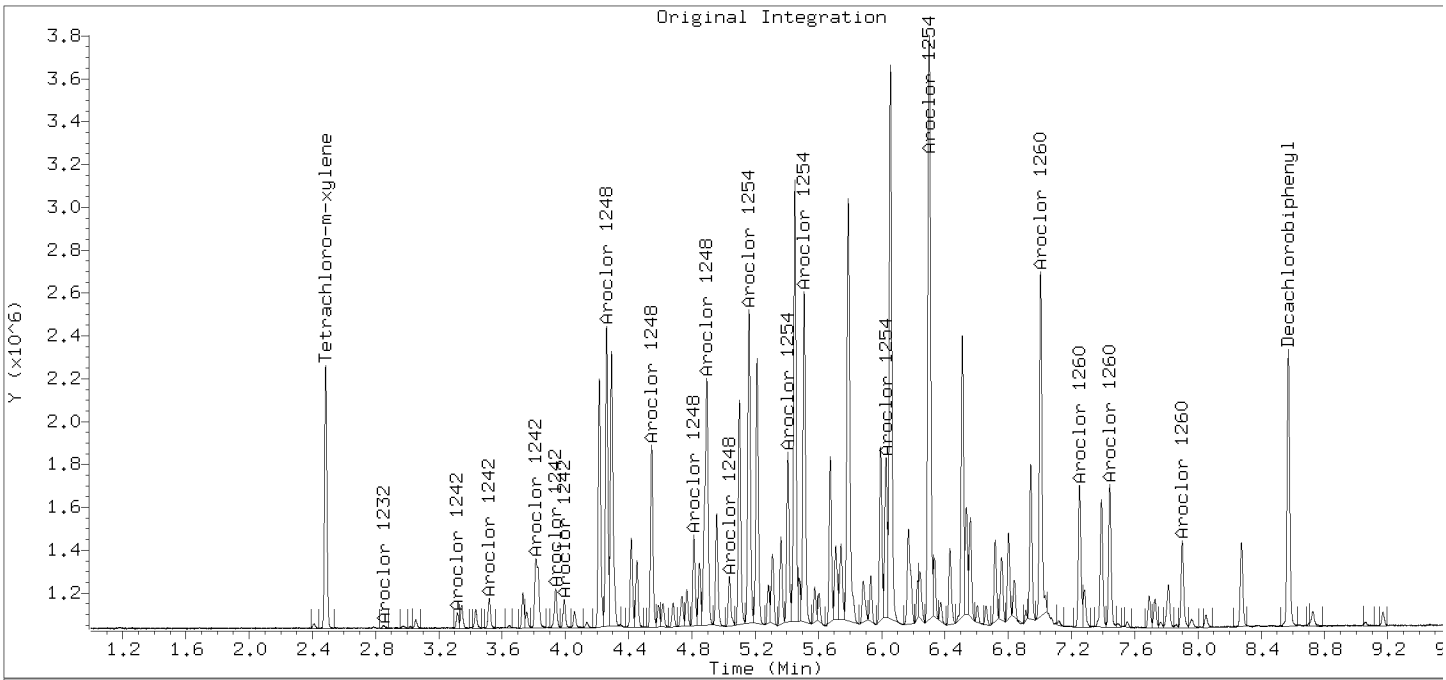
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

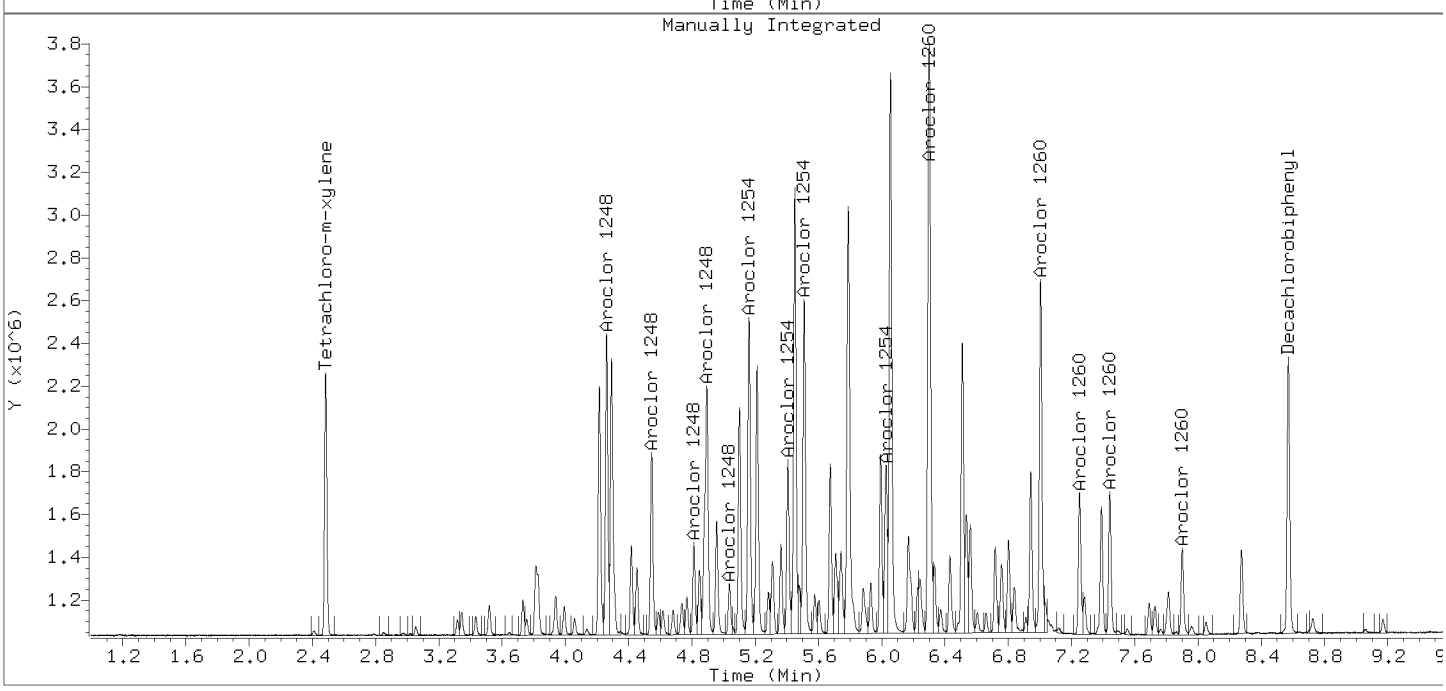
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318022.D
Date : 03-APR-2018 19:46
Client ID: AT1-170616-01-SMB-1
Sample Info: 40157822011 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 19:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822011





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	74598	0	
Aroclor 1016	74598	0	
Aroclor 1016	74598	0	
Aroclor 1016	74598	0	
Aroclor 1016	74598	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	20881	0	
Aroclor 1232	20881	0	
Aroclor 1232	20881	0	
Aroclor 1232	20881	0	

Aroclor 1232	20881	0	
Aroclor 1242	74598	0	
Aroclor 1242	74598	0	
Aroclor 1242	74598	0	
Aroclor 1242	74598	0	
Aroclor 1242	74598	0	
Aroclor 1248	1460735	1481455	BA
Aroclor 1248	1460735	1481455	BA
Aroclor 1248	1460735	1481455	BA
Aroclor 1248	1460735	1481455	BA
Aroclor 1248	1460735	1481455	BA
Aroclor 1254	1687400	1746191	BA
Aroclor 1254	1687400	1746191	BA
Aroclor 1254	1687400	1746191	BA
Aroclor 1254	1687400	1746191	BA
Aroclor 1254	1687400	1746191	BA
Aroclor 1260	3403783	3493184	BA
Aroclor 1260	3403783	3493184	BA
Aroclor 1260	3403783	3493184	BA
Aroclor 1260	3403783	3493184	BA
Aroclor 1260	3403783	3493184	BA
Tetrachloro-m-xylene	1291550	1291550	
Decachlorobiphenyl	1507775	1507775	

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SAMPLE NO.

AT1-170616-01-SMB-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822012
Date Analyzed: 04/03/2018 20:02
Lab File ID: 040318.B\040318023.D
Initial wt/vol: 9.9685 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)	1810	
11097-69-1	PCB-1254 (Aroclor 1254)	1370	
11096-82-5	PCB-1260 (Aroclor 1260)	840	
1336-36-3	PCB, Total	4030	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318023.D
Lab Smp Id: 40157822012 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 20:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822012 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
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	9.969	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	53207	40868	0.768	0.10		
2.484	1254543	1201376	0.958	2.41	$ 2 Tetrachloro-m-xylene	
2.786	11911	10546	0.885	0.02		
2.851	35346	26441	0.748	0.06		
2.974	24894	19689	0.791	0.04		
3.018	13827	14049	1.016	0.02		
3.055	87663	78499	0.895	0.16		
3.317	116120	114866	0.989	0.22		
3.344	186125	171553	0.922	0.35		
3.434	184601	164680	0.892	0.35		
3.519	263053	237743	0.904	0.50		
3.647	25981	24353	0.937	0.04		
3.732	258524	252933	0.978	0.49		
3.756	117899	108525	0.920	0.22		
3.813	942954	544693	0.578	1.81		
3.938	328858	279417	0.850	0.63		
3.993	211104	195523	0.926	0.40		
4.059	124090	114754	0.925	0.23		
4.137	41725	37846	0.907	0.08		
4.214	1613836	1466093	0.908	3.10		
4.261	1787077	1671156	0.935	3.43	6 Aroclor 1248	CO
4.292	1860725	1518581	0.816	3.57		
4.348	26403	20247	0.767	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	550176	540226	0.982	1.05	
4.453	454596	413044	0.909	0.87	
4.545	1195902	1100198	0.920	2.30	6 Aroclor 1248
4.589	127899	120438	0.942	0.24	
4.618	160353	146691	0.915	0.30	
4.681	136819	120007	0.877	0.26	
4.736	173870	141417	0.813	0.33	
4.768	213792	203081	0.950	0.41	
4.813	543832	501816	0.923	1.04	6 Aroclor 1248
4.847	497088	475053	0.956	0.95	
4.894	1960995	1203251	0.614	3.77	6 Aroclor 1248
4.957	593159	537689	0.906	1.14	
5.037	360477	322200	0.894	0.69	6 Aroclor 1248
5.059	27528	48576	1.765	0.05	
5.101	1191997	1049786	0.881	2.29	
5.162	1647027	1402502	0.852	3.16	7 Aroclor 1254
5.212	1328433	1155805	0.870	2.55	
5.285	188547	177756	0.943	0.36	
5.310	411836	343383	0.834	0.79	
5.362	447642	410855	0.918	0.86	
5.406	873408	789109	0.903	1.68	7 Aroclor 1254
5.451	1921822	1721508	0.896	3.69	
5.477	220868	209370	0.948	0.42	
5.509	1842595	1575388	0.855	3.54	7 Aroclor 1254
5.576	161732	148784	0.920	0.31	
5.603	187938	157571	0.838	0.36	
5.675	719456	669093	0.930	1.38	
5.709	432772	336670	0.778	0.83	
5.742	439911	337370	0.767	0.84	
5.789	2422867	1800924	0.743	4.66	
5.883	291759	190597	0.653	0.56	
5.930	230714	191914	0.832	0.44	
5.993	764213	693582	0.908	1.46	
6.027	811577	725576	0.894	1.56	7 Aroclor 1254
6.056	2575803	2126674	0.826	4.95	
6.169	591729	376498	0.636	1.13	
6.228	151987	175683	1.156	0.29	
6.242	277713	209198	0.753	0.53	
6.300	2903173	2328102	0.802	6.09	7 Aroclor 1254
6.333	312294	265632	0.851	0.60	
6.374	114152	94462	0.828	0.21	
6.432	353501	293622	0.831	0.67	
6.484	27318	38504	1.409	0.05	
6.511	1255281	1141500	0.909	2.41	
6.535	499990	477051	0.954	0.96	
6.560	457266	393688	0.861	0.87	
6.605	104604	77828	0.744	0.20	
6.661	77744	71523	0.920	0.14	
6.719	350865	310908	0.886	0.67	
6.758	300450	257919	0.858	0.57	
6.802	410442	370482	0.903	0.78	
6.839	222013	184317	0.830	0.42	
6.912	54493	58777	1.079	0.10	
6.943	703080	647583	0.921	1.35	
7.004	1588278	1384265	0.872	3.05	8 Aroclor 1260
7.034	188082	122003	0.649	0.36	
7.122	17427	18131	1.040	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.250	632092	557332	0.882	1.21	8 Aroclor 1260
7.283	181252	150520	0.830	0.34	
7.390	563356	479536	0.851	1.08	
7.442	640078	555652	0.868	1.23	8 Aroclor 1260
7.493	24530	17655	0.720	0.04	
7.552	34841	27719	0.796	0.06	
7.690	143126	132163	0.923	0.27	
7.726	147143	130303	0.886	0.28	
7.762	30049	24931	0.830	0.05	
7.813	210457	147125	0.699	0.40	
7.862	15785	12838	0.813	0.03	
7.900	420598	375307	0.892	0.80	8 Aroclor 1260
7.957	65253	35013	0.537	0.12	
8.052	35600	25571	0.718	0.06	
8.275	480165	405585	0.845	0.92	
8.375	10268	9288	0.905	0.01	
8.571	1467387	1244070	0.848	2.82	$ 12 Decachlorobiphenyl
8.727	92957	64685	0.696	0.17	
8.942	9844	8804	0.894	0.01	
9.060	14300	12404	0.867	0.02	
9.169	84553	73486	0.869	0.16	
9.458	11465	6375	0.556	0.02	
9.738	21112	14542	0.689	0.04	
9.958	9878	7958	0.806	0.01	
	51987841	44218873		100.000	

Total unknown % area = 61

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318023.D
Lab Smp Id: 40157822012 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 20:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822012 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
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	9.969	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.484	2.484	0.000	1254542	0.01018		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	1787077	0.76274	3800	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	1195902	0.28815	1400	0.00- 20.00	66.92	CO
4.812	4.812	0.000	543831	0.26789	1300	0.00- 20.00	30.43	CO
4.894	4.879	0.015	1960995	0.38928	2000	0.00- 20.00	109.73	CO
5.037	5.038	-0.001	360476	0.10045	500	0.00- 20.00	20.17	CO
Average of Peak Concentrations =					1800			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1647027	0.31460	1600	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	873407	0.20307	1000	0.00- 20.00	53.03	BA
5.509	5.510	-0.001	1842594	0.23726	1200	0.00- 20.00	111.87	BA
6.027	6.027	0.000	811577	0.16666	840	0.00- 20.00	49.28	BA
6.299	6.299	0.000	2903172	0.44615	2200	0.00- 20.00	176.27	BA
Average of Peak Concentrations =					1400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	1588278	0.15860	800	0.00- 20.00	54.71	BA
7.250	7.251	-0.001	632092	0.13224	660	0.00- 20.00	21.77	BA
7.441	7.443	-0.002	640078	0.21957	1100	0.00- 20.00	22.05	BA
7.899	7.901	-0.002	420598	0.15939	800	0.00- 20.00	14.49	BA
Average of Peak Concentrations =					840			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	1467386	0.01339	67			

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\040318.b\040318023.D

Date : 03-APR-2018 20:02

Client ID: AT1-170616-01-SMB-0

Instrument: 40GCSJ.i

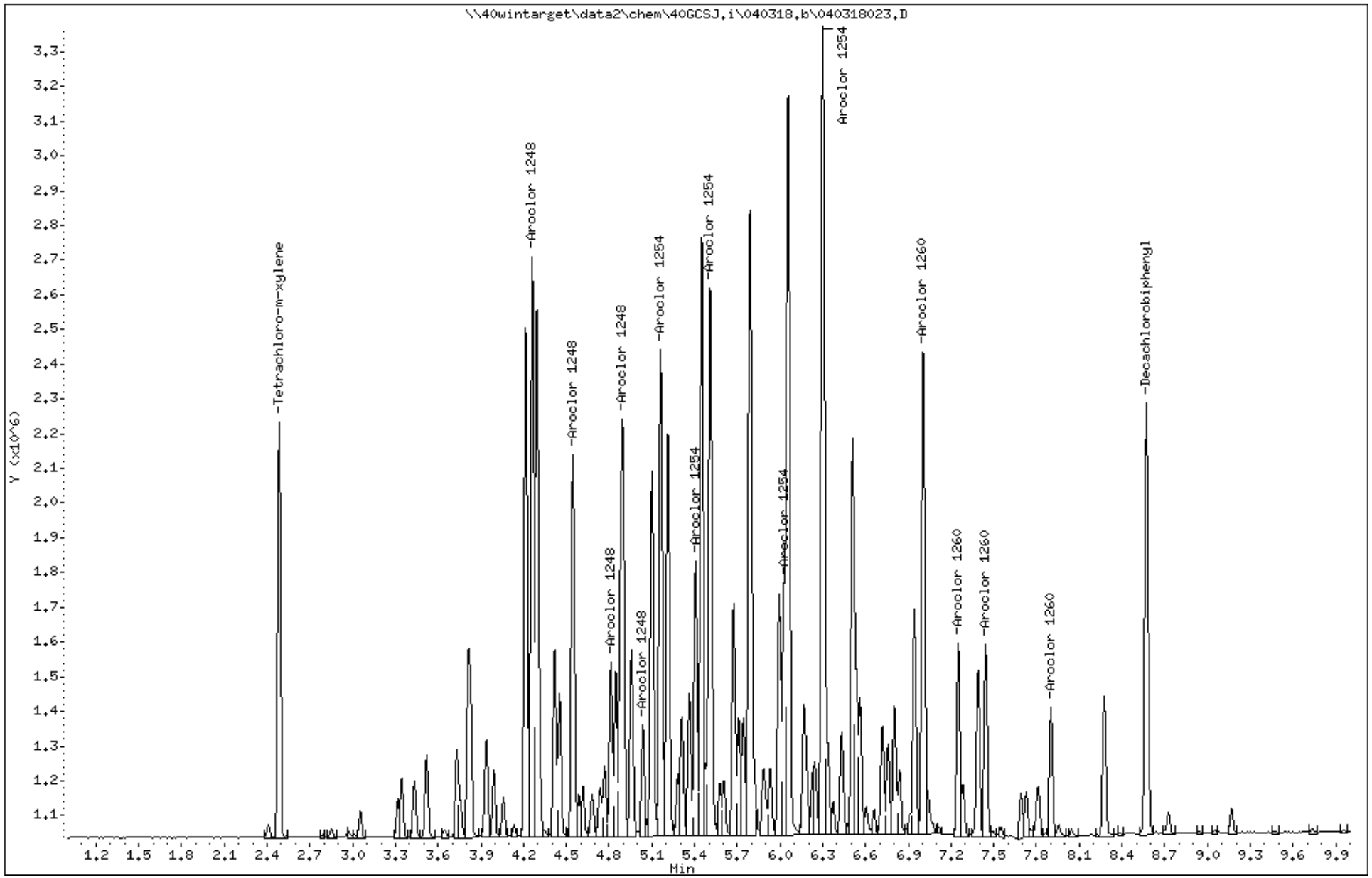
Sample Info: 40157822012 x10,

Volume Injected (uL): 1.0

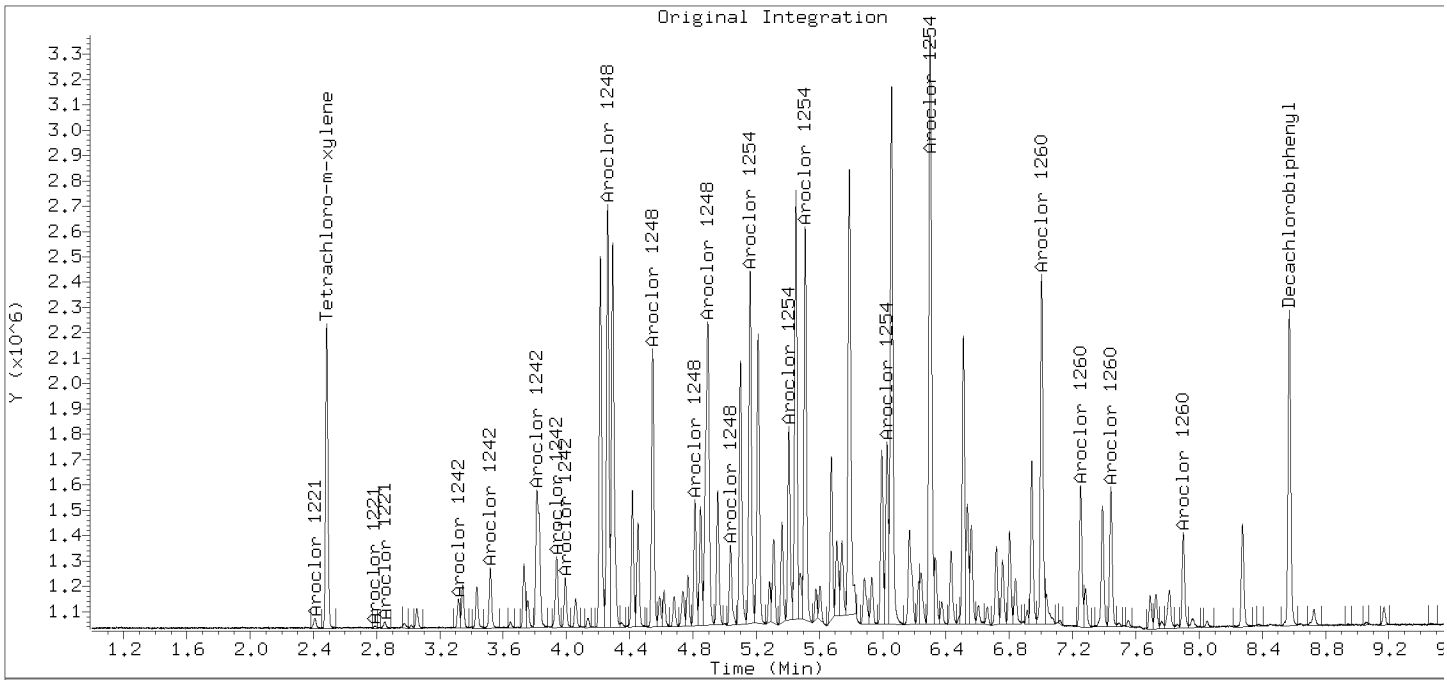
Operator: BLM

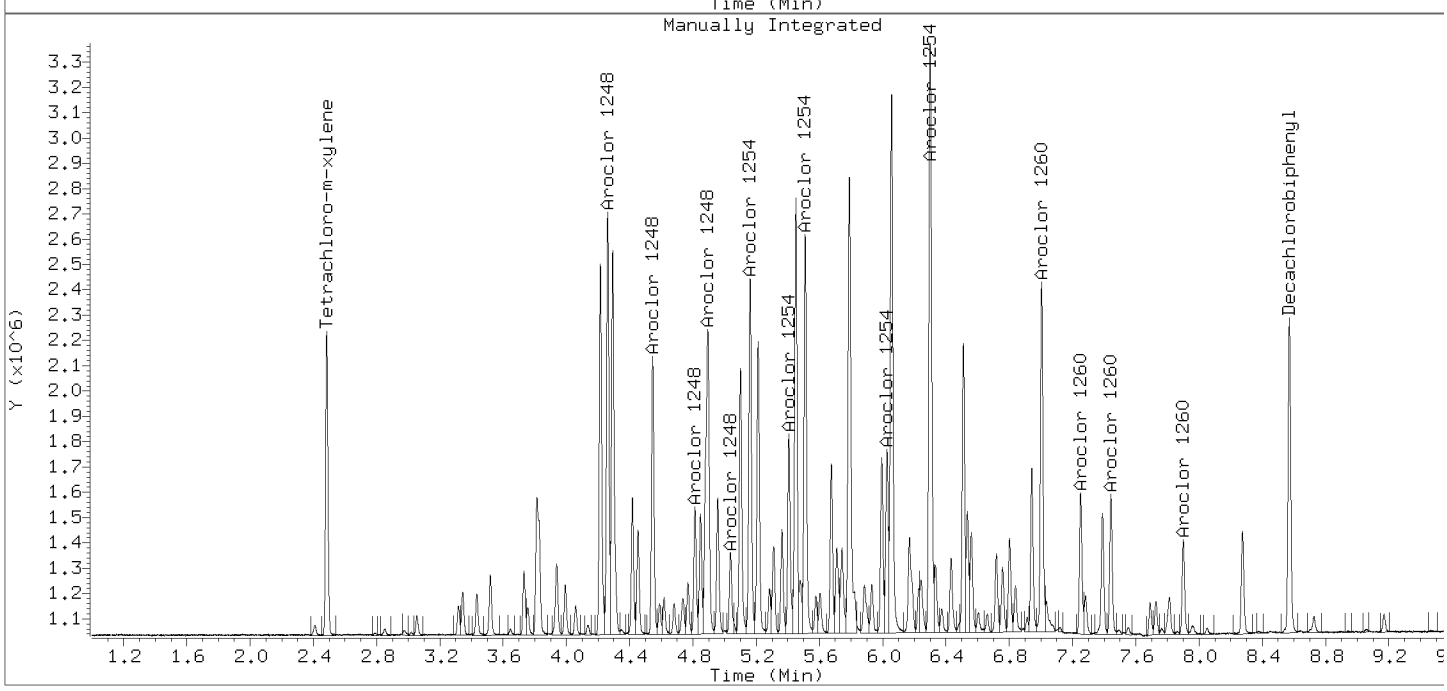
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 20:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822012





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	116120	0	
Aroclor 1016	116120	0	
Aroclor 1016	116120	0	
Aroclor 1016	116120	0	
Aroclor 1016	116120	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	35345	0	
Aroclor 1232	35345	0	
Aroclor 1232	35345	0	
Aroclor 1232	35345	0	

Aroclor 1232	35345	0	
Aroclor 1242	116120	0	
Aroclor 1242	116120	0	
Aroclor 1242	116120	0	
Aroclor 1242	116120	0	
Aroclor 1242	116120	0	
Aroclor 1248	1781712	1787077	CO
Aroclor 1248	1781712	1787077	CO
Aroclor 1248	1781712	1787077	CO
Aroclor 1248	1781712	1787077	CO
Aroclor 1248	1781712	1787077	CO
Aroclor 1254	1606447	1647027	BA
Aroclor 1254	1606447	1647027	BA
Aroclor 1254	1606447	1647027	BA
Aroclor 1254	1606447	1647027	BA
Aroclor 1254	1606447	1647027	BA
Aroclor 1260	2882011	0	BA
Aroclor 1260	2882011	0	BA
Aroclor 1260	2882011	0	BA
Aroclor 1260	2882011	0	BA
Aroclor 1260	2882011	0	BA
Tetrachloro-m-xylene	1254542	1254542	
Decachlorobiphenyl	1467386	1467386	

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SAMPLE NO.

AT1-170616-01-SMB-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/03/2017 10:20

Matrix: Tissue SDG No.: 40157822

Date Extracted: 04/02/2018 07:11

Lab Sample ID: 40157822013

Date Analyzed: 04/03/2018 20:18

Lab File ID: 040318.B\040318024.D

Initial wt/vol: 9.9915 g Final wt/vol: 5 mL Dilution: 3

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.2	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.2	U
12672-29-6	PCB-1248 (Aroclor 1248)	455	
11097-69-1	PCB-1254 (Aroclor 1254)	369	
11096-82-5	PCB-1260 (Aroclor 1260)	164	
1336-36-3	PCB, Total	988	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318024.D
Lab Smp Id: 40157822013 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 20:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822013 x3,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.992	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.412	48711	40089	0.823	0.10		
2.485	3675645	3434914	0.935	7.82	$ 2 Tetrachloro-m-xylene	
2.787	16457	14055	0.854	0.03		
2.850	32491	24127	0.743	0.06		
2.974	38372	32324	0.842	0.08		
3.019	17456	19331	1.107	0.03		
3.055	73812	67179	0.910	0.15		
3.317	77809	76159	0.979	0.16		
3.345	100909	95338	0.945	0.21		
3.434	123307	118717	0.963	0.26		
3.519	167167	148399	0.888	0.35		
3.646	15815	14062	0.889	0.03		
3.732	185840	185359	0.997	0.39		
3.756	89680	81740	0.911	0.19		
3.813	767146	427055	0.557	1.63		
3.939	204060	168666	0.827	0.43		
3.992	150988	134696	0.892	0.32		
4.058	83136	69268	0.833	0.17		
4.138	27557	20028	0.727	0.05		
4.216	1165521	1076392	0.924	2.48		
4.261	1344900	1270412	0.945	2.86	6 Aroclor 1248	BA
4.292	1573140	1317559	0.838	3.34		
4.417	412669	382433	0.927	0.87		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	364570	328354	0.901	0.77	
4.546	904188	836706	0.925	1.92	6 Aroclor 1248
4.588	110948	104496	0.942	0.23	
4.618	117500	98431	0.838	0.25	
4.681	105952	94450	0.891	0.22	
4.737	145125	114169	0.787	0.30	
4.768	208495	194949	0.935	0.44	
4.813	580782	551113	0.949	1.23	6 Aroclor 1248
4.847	455938	413965	0.908	0.97	
4.893	1607028	845552	0.526	3.42	6 Aroclor 1248
4.956	473962	410307	0.866	1.00	
5.037	427008	363654	0.852	0.90	6 Aroclor 1248
5.100	874231	776794	0.889	1.86	
5.162	1449877	1234130	0.851	3.08	7 Aroclor 1254
5.212	1148374	1006824	0.877	2.44	
5.284	150812	147653	0.979	0.32	
5.310	301240	249341	0.828	0.64	
5.363	391398	354764	0.906	0.83	
5.406	819334	724408	0.884	1.74	7 Aroclor 1254
5.450	1302502	1124575	0.863	2.77	
5.478	139188	139348	1.001	0.29	
5.510	1619111	1409725	0.871	3.44	7 Aroclor 1254
5.576	131018	116615	0.890	0.27	
5.604	186246	162269	0.871	0.39	
5.675	505133	484601	0.959	1.07	
5.710	322412	245723	0.762	0.68	
5.742	385824	292291	0.758	0.82	
5.789	2245221	1624675	0.724	4.77	
5.886	236969	156249	0.659	0.50	
5.931	203072	162719	0.801	0.43	
5.993	577663	545112	0.944	1.22	
6.027	829540	719354	0.867	1.76	7 Aroclor 1254
6.056	2035763	1734923	0.852	4.33	
6.169	462397	295606	0.639	0.98	
6.230	120466	152433	1.265	0.25	
6.242	272671	202256	0.742	0.58	
6.301	2482523	2037551	0.821	5.28	7 Aroclor 1254
6.334	280760	237078	0.844	0.59	
6.374	107587	85607	0.796	0.22	
6.432	267475	218730	0.818	0.56	
6.510	909922	807381	0.887	1.93	
6.535	464895	417359	0.898	0.98	
6.561	317176	280842	0.885	0.67	
6.607	75986	64588	0.850	0.16	
6.661	57003	52023	0.913	0.12	
6.717	313344	279167	0.891	0.66	
6.759	324324	279534	0.862	0.69	
6.802	329396	280439	0.851	0.70	
6.840	164551	125327	0.762	0.35	
6.912	34726	38571	1.111	0.07	
6.943	530232	474711	0.895	1.12	
7.005	1072329	943757	0.880	2.28	8 Aroclor 1260
7.036	77379	85754	1.108	0.16	
7.122	37014	28208	0.762	0.07	
7.251	471665	424854	0.901	1.00	8 Aroclor 1260
7.282	147667	118903	0.805	0.31	
7.328	12427	12925	1.040	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.389	384676	322704	0.839	0.81	
7.443	382515	322370	0.843	0.81	8 Aroclor 1260
7.550	22828	20003	0.876	0.04	
7.691	92908	87632	0.943	0.19	
7.728	128459	108198	0.842	0.27	
7.765	22120	18128	0.820	0.04	
7.812	170938	125420	0.734	0.36	
7.863	16905	13602	0.805	0.03	
7.900	266762	221387	0.830	0.56	8 Aroclor 1260
7.957	34662	24883	0.718	0.07	
8.050	164626	136209	0.827	0.35	
8.274	287107	245601	0.855	0.61	
8.378	10199	8165	0.801	0.02	
8.571	3778248	3066100	0.812	8.52	$ 12 Decachlorobiphenyl
8.727	53425	40907	0.766	0.11	
9.055	33087	23746	0.718	0.07	
9.169	29160	24491	0.840	0.06	
9.739	12278	8774	0.715	0.02	
	46973830	39748465		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318024.D
Lab Smp Id: 40157822013 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 20:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822013 x3,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.992	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	3675645	0.02981	45			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1344899	0.57401	860	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	904187	0.21786	330	0.00- 20.00	67.23	BA
4.813	4.812	0.001	580782	0.28609	430	0.00- 20.00	43.18	BA
4.892	4.879	0.013	1607028	0.31902	480	0.00- 20.00	119.49	BA
5.037	5.038	-0.001	427008	0.11899	180	0.00- 20.00	31.75	BA
Average of Peak Concentrations =					460			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1449876	0.27695	420	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	819333	0.19050	280	0.00- 20.00	56.51	BA
5.509	5.510	-0.001	1619110	0.20849	310	0.00- 20.00	111.67	BA
6.026	6.027	-0.001	829539	0.17035	260	0.00- 20.00	57.21	BA
6.300	6.299	0.001	2482522	0.38151	570	0.00- 20.00	171.22	BA
Average of Peak Concentrations =					370			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.004	7.006	-0.002	1072329	0.10708	160	0.00- 20.00	46.25	CO
7.251	7.251	0.000	471665	0.09868	150	0.00- 20.00	19.00	CO
7.442	7.443	-0.001	382515	0.13122	200	0.00- 20.00	15.41	CO
7.900	7.901	-0.001	266762	0.10109	150	0.00- 20.00	10.75	CO
Average of Peak Concentrations =					160			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3778248	0.03449	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\040318.b\040318024.D

Date : 03-APR-2018 20:18

Client ID: AT1-170616-01-SMB-0

Instrument: 40GCSJ.i

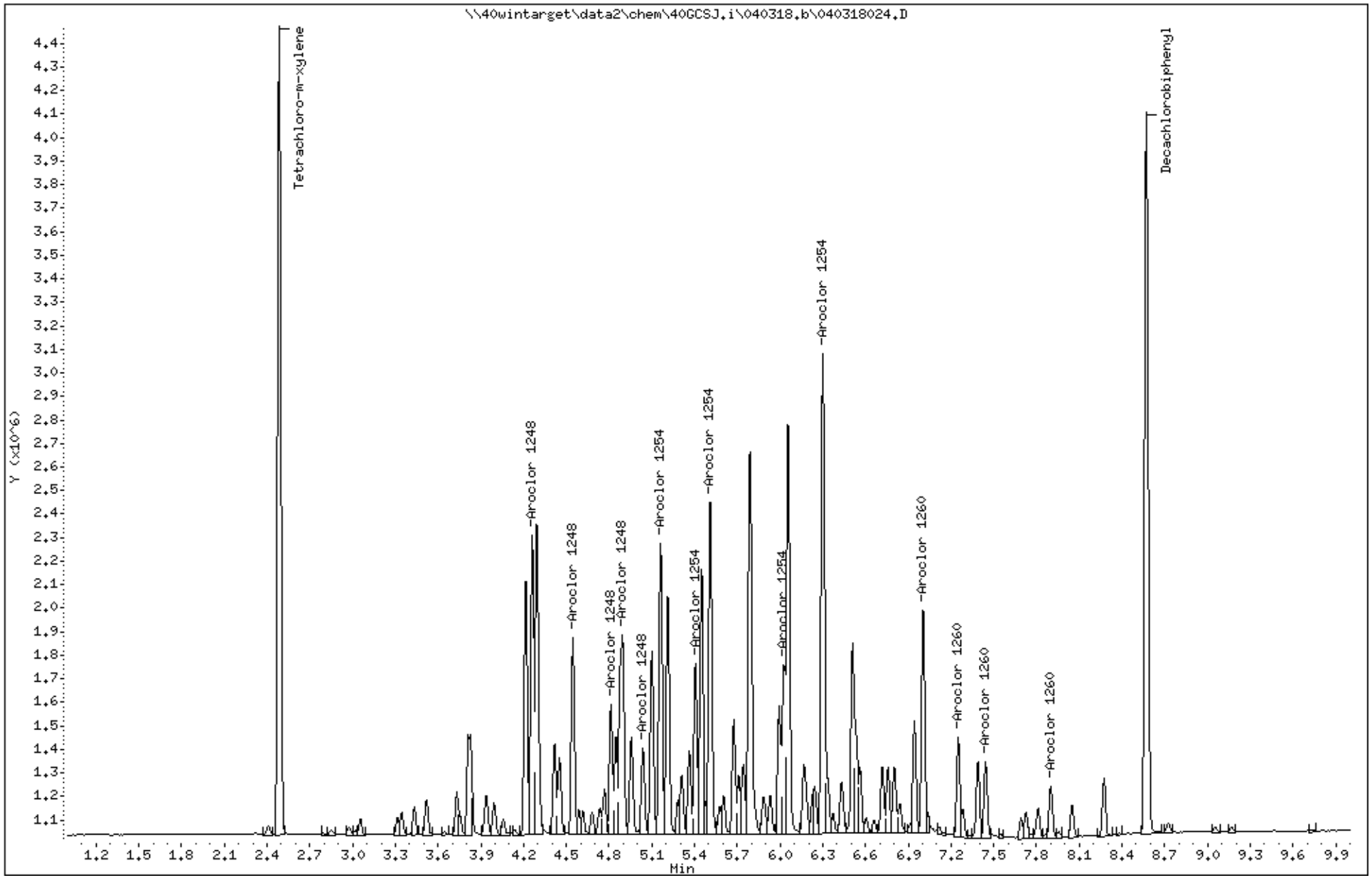
Sample Info: 40157822013 x3,

Volume Injected (uL): 1.0

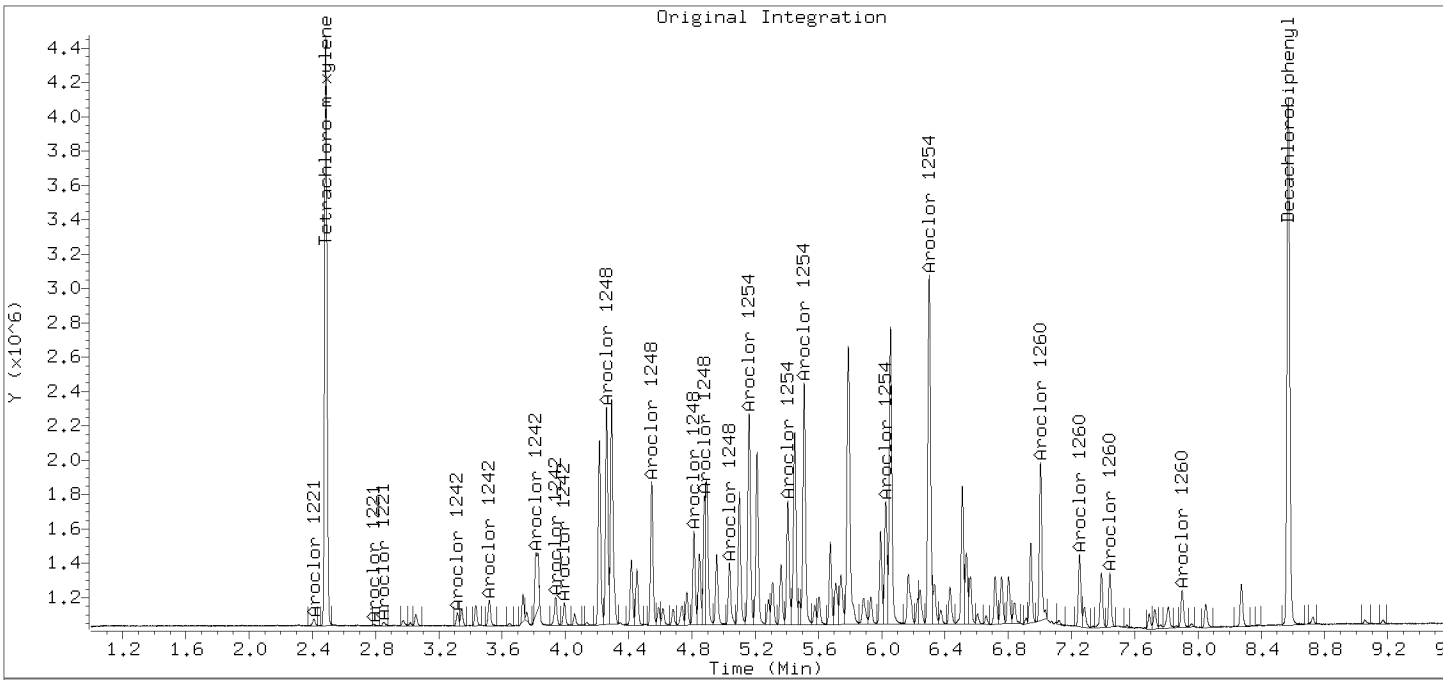
Operator: BLM

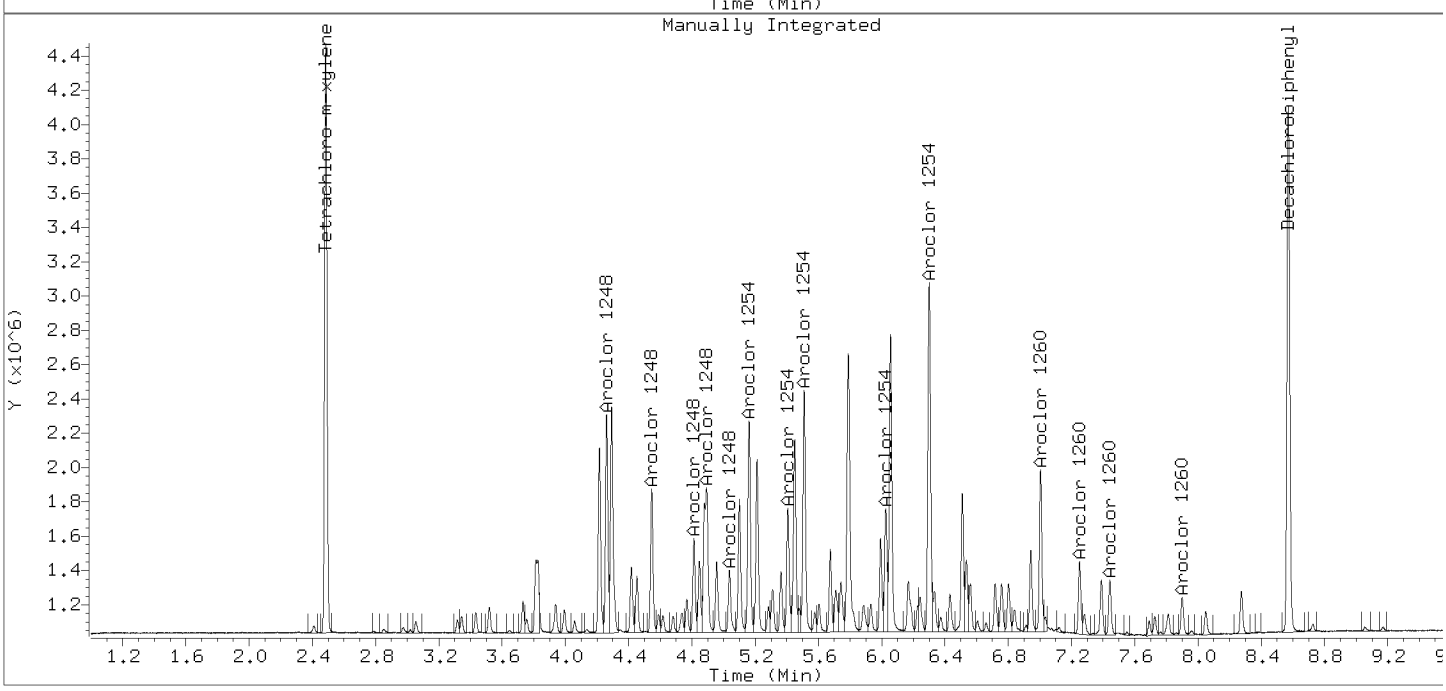
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 20:18 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822013





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	77808	0	
Aroclor 1016	77808	0	
Aroclor 1016	77808	0	
Aroclor 1016	77808	0	
Aroclor 1016	77808	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	32491	0	
Aroclor 1232	32491	0	
Aroclor 1232	32491	0	
Aroclor 1232	32491	0	

Aroclor 1232	32491	0	
Aroclor 1242	77808	0	
Aroclor 1242	77808	0	
Aroclor 1242	77808	0	
Aroclor 1242	77808	0	
Aroclor 1242	77808	0	
Aroclor 1248	1327161	1344899	BA
Aroclor 1248	1327161	1344899	BA
Aroclor 1248	1327161	1344899	BA
Aroclor 1248	1327161	1344899	BA
Aroclor 1248	1327161	1344899	BA
Aroclor 1254	1440417	1449876	BA
Aroclor 1254	1440417	1449876	BA
Aroclor 1254	1440417	1449876	BA
Aroclor 1254	1440417	1449876	BA
Aroclor 1254	1440417	1449876	BA
Aroclor 1260	2468538	0	CO
Aroclor 1260	2468538	0	CO
Aroclor 1260	2468538	0	CO
Aroclor 1260	2468538	0	CO
Aroclor 1260	2468538	0	CO
Tetrachloro-m-xylene	3675645	3675645	
Decachlorobiphenyl	3778248	3778248	

==========

SAMPLE NO.

AT1-170616-01-SMB-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822014
Date Analyzed: 04/03/2018 20:34
Lab File ID: 040318.B\040318025.D
Initial wt/vol: 9.9671 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)	1940	
11097-69-1	PCB-1254 (Aroclor 1254)	1250	
11096-82-5	PCB-1260 (Aroclor 1260)	588	
1336-36-3	PCB, Total	3780	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318025.D
Lab Smp Id: 40157822014 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 20:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822014 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
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	9.967	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.068	10607	7408	0.698	0.02		
2.410	63990	50151	0.784	0.13		
2.485	1237431	1197706	0.968	2.53	$ 2 Tetrachloro-m-xylene	
2.790	21571	17773	0.824	0.04		
2.850	45370	44531	0.982	0.09		
2.974	40345	24627	0.610	0.08		
3.020	17450	17402	0.997	0.03		
3.053	116054	100657	0.867	0.23		
3.317	221539	220188	0.994	0.45		
3.345	340181	314471	0.924	0.69		
3.434	244866	221993	0.907	0.50		
3.520	369059	330239	0.895	0.75		
3.646	35420	29768	0.840	0.07		
3.732	357743	343789	0.961	0.73		
3.756	166284	163154	0.981	0.34		
3.814	1291099	756751	0.586	2.64		
3.938	387434	321826	0.831	0.79		
3.993	260949	235490	0.902	0.53		
4.059	158386	139383	0.880	0.32		
4.136	66876	57587	0.861	0.13		
4.215	1691788	1560188	0.922	3.46		
4.261	2026576	1876419	0.926	4.15	6 Aroclor 1248	CO
4.292	1982487	1604156	0.809	4.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.349	32985	24289	0.736	0.06	
4.417	676479	648576	0.959	1.38	
4.452	527207	484302	0.919	1.08	
4.545	1340739	1253659	0.935	2.74	6 Aroclor 1248
4.589	121860	118922	0.976	0.24	
4.617	221120	194989	0.882	0.45	
4.681	136775	124541	0.911	0.28	
4.736	175790	142597	0.811	0.36	
4.768	211690	198558	0.938	0.43	
4.813	522712	498121	0.953	1.07	6 Aroclor 1248
4.848	523772	496950	0.949	1.07	
4.894	1950048	1264317	0.648	3.99	6 Aroclor 1248
4.956	620904	554672	0.893	1.27	
5.037	352059	310088	0.881	0.72	6 Aroclor 1248
5.056	33674	53063	1.576	0.06	
5.101	1188696	1004181	0.845	2.43	
5.162	1564252	1357804	0.868	3.20	7 Aroclor 1254
5.212	1249494	1079301	0.864	2.56	
5.284	174865	168346	0.963	0.35	
5.310	399694	336802	0.843	0.81	
5.362	438159	398135	0.909	0.89	
5.406	800246	718887	0.898	1.64	7 Aroclor 1254
5.452	1774472	1631793	0.920	3.63	
5.478	208420	201882	0.969	0.42	
5.510	1817018	1562257	0.860	3.72	7 Aroclor 1254
5.577	143110	128437	0.897	0.29	
5.605	183334	155799	0.850	0.37	
5.675	636630	598386	0.940	1.30	
5.710	408519	312349	0.765	0.83	
5.744	383325	298704	0.779	0.78	
5.788	2054832	1597692	0.778	4.21	
5.820	133086	151731	1.140	0.27	
5.883	273649	178149	0.651	0.56	
5.932	195755	165121	0.844	0.40	
5.994	628926	590487	0.939	1.28	
6.028	737373	642502	0.871	1.51	7 Aroclor 1254
6.056	2129518	1776939	0.834	4.36	
6.170	494793	300337	0.607	1.01	
6.231	128880	144266	1.119	0.26	
6.242	238619	182182	0.763	0.48	
6.300	2454664	1940199	0.790	5.54	7 Aroclor 1254
6.333	249164	226520	0.909	0.51	
6.374	104068	80851	0.777	0.21	
6.433	284654	229489	0.806	0.58	
6.485	30105	31941	1.061	0.06	
6.511	933578	859216	0.920	1.91	
6.536	424873	395132	0.930	0.87	
6.561	350787	297354	0.848	0.71	
6.606	73387	61718	0.841	0.15	
6.661	65773	58178	0.885	0.13	
6.718	316827	276806	0.874	0.64	
6.759	272740	224542	0.823	0.55	
6.802	319746	281935	0.882	0.65	
6.839	164425	128087	0.779	0.33	
6.914	40314	42368	1.051	0.08	
6.942	526082	465155	0.884	1.07	
7.005	1174265	1029362	0.877	2.40	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.035	78276	90002	1.150	0.16	
7.122	25034	21248	0.849	0.05	
7.252	472995	415192	0.878	0.96	8 Aroclor 1260
7.282	142283	116046	0.816	0.29	
7.388	382061	323710	0.847	0.78	
7.443	423142	379726	0.897	0.86	8 Aroclor 1260
7.492	20094	14178	0.706	0.04	
7.553	23068	19532	0.847	0.04	
7.691	95326	85542	0.897	0.19	
7.728	94338	83792	0.888	0.19	
7.765	18770	16399	0.874	0.03	
7.813	146060	102820	0.704	0.29	
7.901	283117	249303	0.881	0.58	8 Aroclor 1260
7.956	31885	25505	0.800	0.06	
8.050	25022	18076	0.722	0.05	
8.275	262425	232254	0.885	0.53	
8.376	12829	9165	0.714	0.02	
8.571	1344060	1129803	0.841	2.75	$ 12 Decachlorobiphenyl
8.728	47775	35448	0.742	0.09	
9.056	15646	9775	0.625	0.03	
9.170	51000	43218	0.847	0.10	
	48767636	41735357		100.000	

Total unknown % area = 62

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318025.D
Lab Smp Id: 40157822014 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 20:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822014 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
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	9.967	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	1237431	0.01004	50			
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	2026575	0.86496	4300	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	1340738	0.32305	1600	0.00- 20.00	66.16	CO
4.812	4.812	0.000	522712	0.25748	1300	0.00- 20.00	25.79	CO
4.893	4.879	0.014	1950047	0.38711	1900	0.00- 20.00	96.22	CO
5.036	5.038	-0.002	352058	0.09811	490	0.00- 20.00	17.37	CO
Average of Peak Concentrations =					1900			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1564251	0.29879	1500	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	800245	0.18606	930	0.00- 20.00	51.16	BA
5.509	5.510	-0.001	1817018	0.23397	1200	0.00- 20.00	116.16	BA
6.027	6.027	0.000	737372	0.15142	760	0.00- 20.00	47.14	BA
6.299	6.299	0.000	2454663	0.37723	1900	0.00- 20.00	156.92	BA
Average of Peak Concentrations =					1200			
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
7.005	7.006	-0.001	1174265	0.11726	590	0.00- 20.00	50.96	CO
7.251	7.251	0.000	472995	0.09896	500	0.00- 20.00	19.27	CO
7.442	7.443	-0.001	423141	0.14515	730	0.00- 20.00	17.24	CO
7.900	7.901	-0.001	283117	0.10729	540	0.00- 20.00	11.53	CO
Average of Peak Concentrations =					590			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	1344059	0.01227	62			

QC Flag Legend

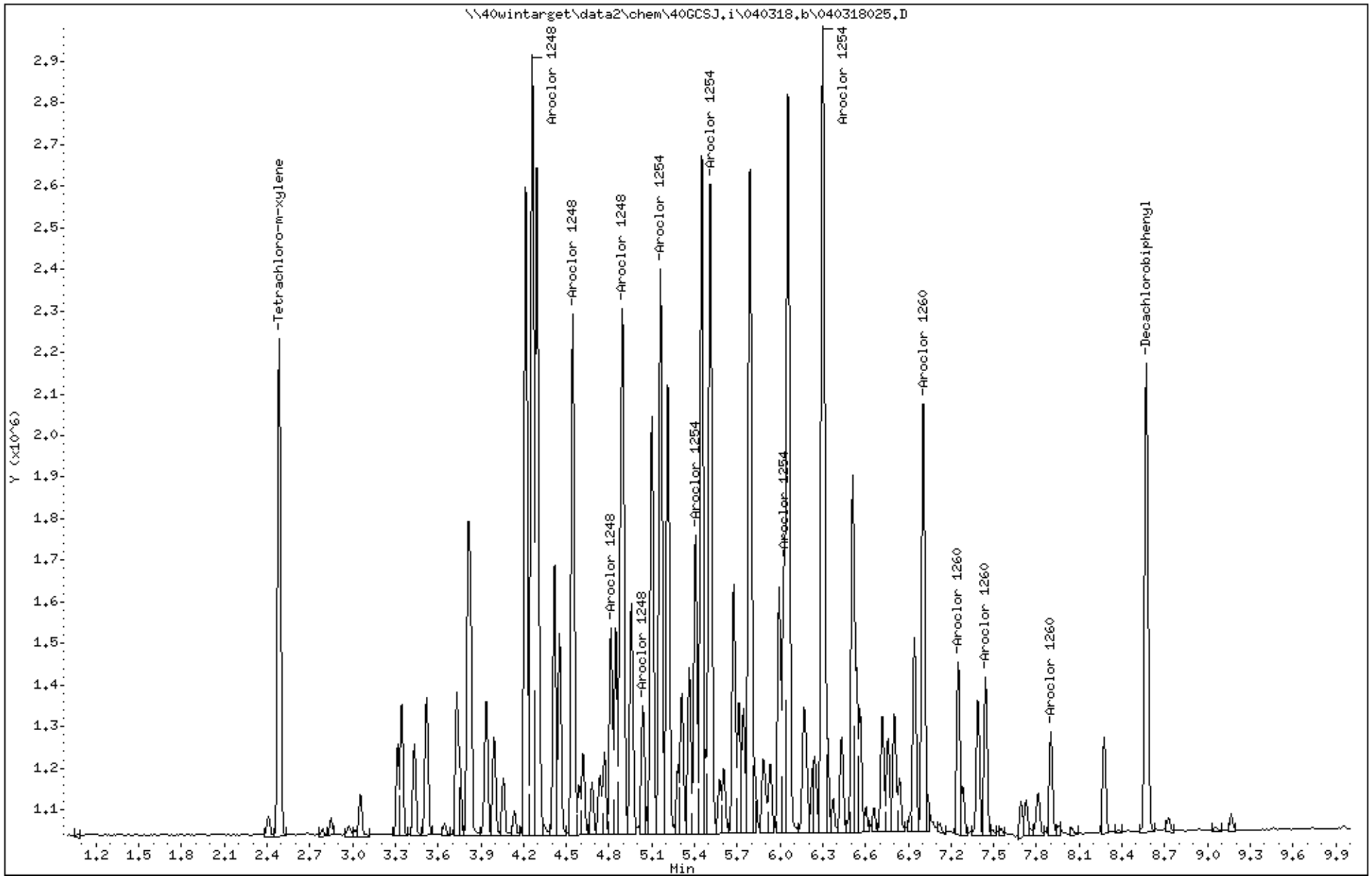
M - Compound response manually integrated.

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\040318.b\040318025.D
Date : 03-APR-2018 20:34
Client ID: AT1-170616-01-SMB-0
Sample Info: 40157822014 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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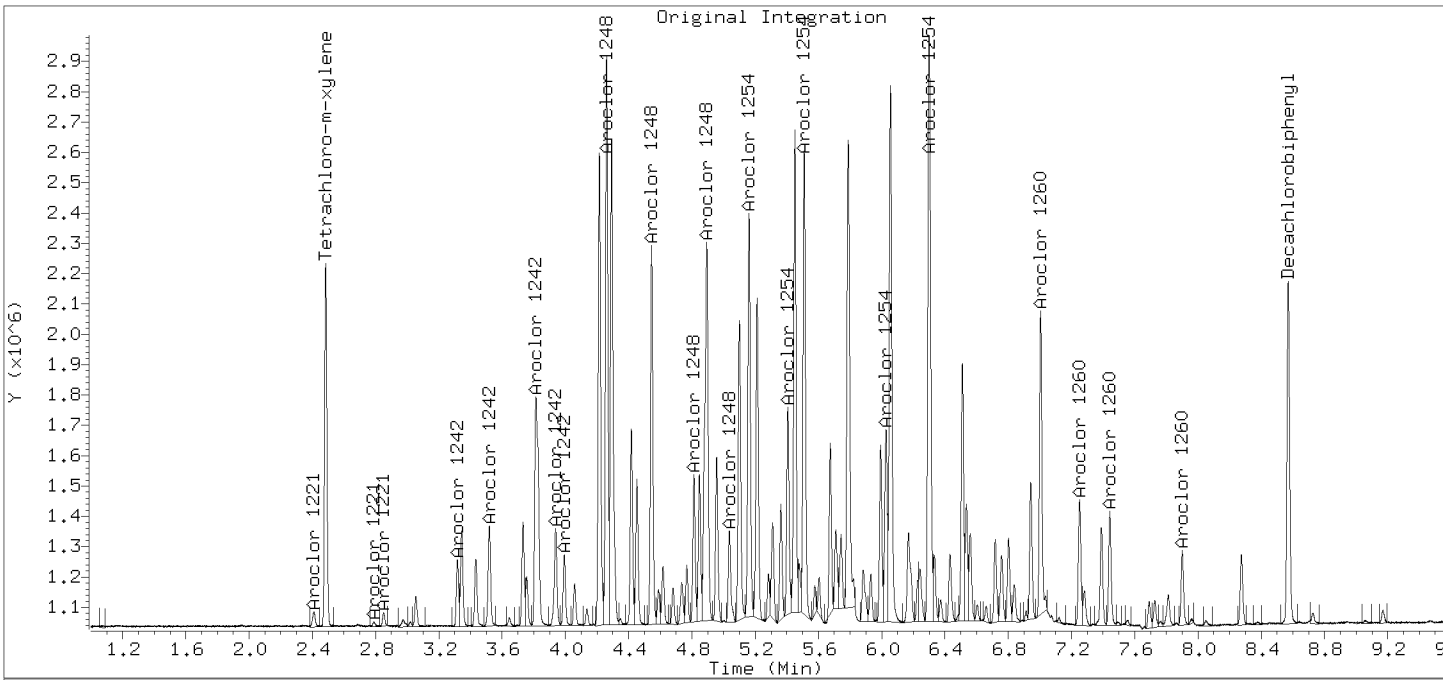
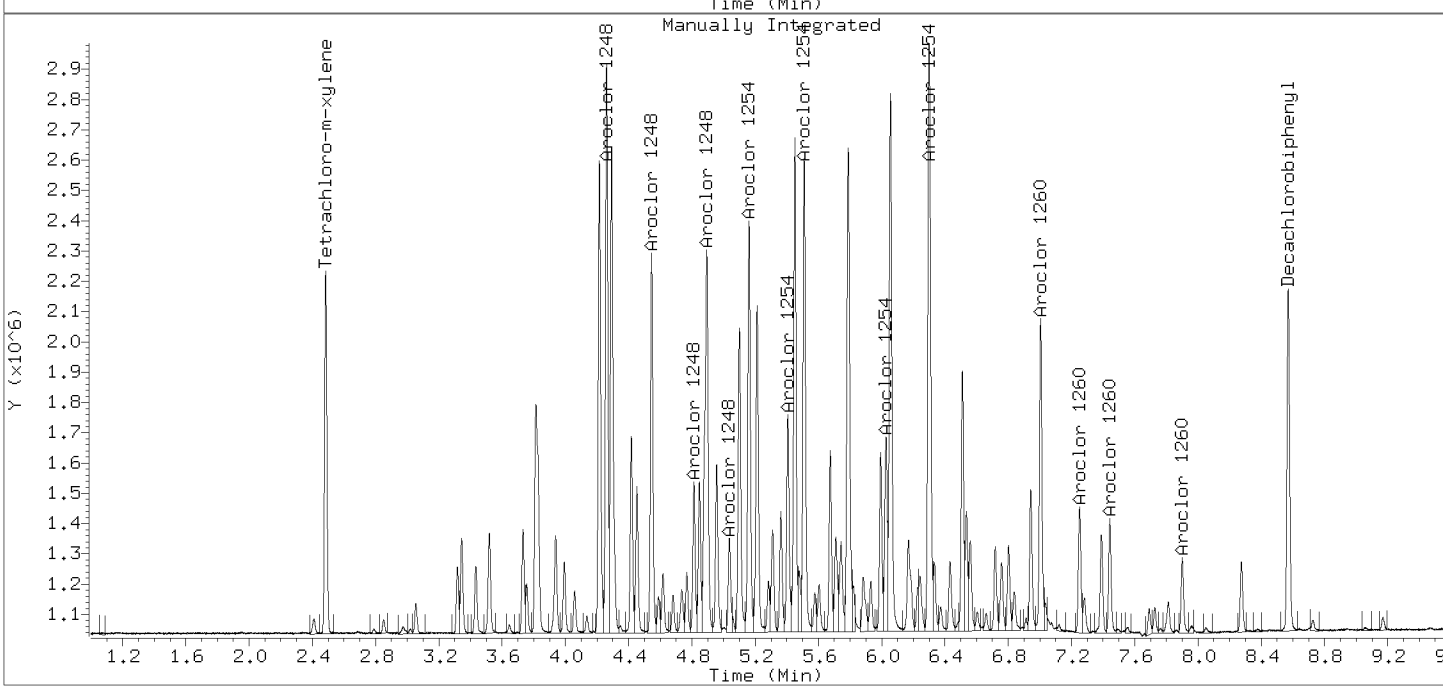
Injection Date: 03-APR-2018 20:34 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	221538	0	
Aroclor 1016	221538	0	
Aroclor 1016	221538	0	
Aroclor 1016	221538	0	
Aroclor 1016	221538	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	45369	0	
Aroclor 1232	45369	0	
Aroclor 1232	45369	0	
Aroclor 1232	45369	0	

Aroclor 1232	45369	0	
Aroclor 1242	221538	0	
Aroclor 1242	221538	0	
Aroclor 1242	221538	0	
Aroclor 1242	221538	0	
Aroclor 1242	221538	0	
Aroclor 1248	2014459	2026575	CO
Aroclor 1248	2014459	2026575	CO
Aroclor 1248	2014459	2026575	CO
Aroclor 1248	2014459	2026575	CO
Aroclor 1248	2014459	2026575	CO
Aroclor 1254	1471651	1564251	BA
Aroclor 1254	1471651	1564251	BA
Aroclor 1254	1471651	1564251	BA
Aroclor 1254	1471651	1564251	BA
Aroclor 1254	1471651	1564251	BA
Aroclor 1260	2426199	0	CO
Aroclor 1260	2426199	0	CO
Aroclor 1260	2426199	0	CO
Aroclor 1260	2426199	0	CO
Aroclor 1260	2426199	0	CO
Tetrachloro-m-xylene	1237431	1237431	
Decachlorobiphenyl	1344059	1344059	

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SAMPLE NO.

AT1-170616-01-SMB-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822015
Date Analyzed: 04/03/2018 20:50
Lab File ID: 040318.B\040318026.D
Initial wt/vol: 9.9745 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	405	
11097-69-1	PCB-1254 (Aroclor 1254)	311	
11096-82-5	PCB-1260 (Aroclor 1260)	304	
1336-36-3	PCB, Total	1020	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318026.D
Lab Smp Id: 40157822015 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 20:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822015 x2,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.975	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.537	12754	7435	0.583	0.01		
2.408	47591	37542	0.789	0.06		
2.485	6067617	5816115	0.959	7.98	$ 2 Tetrachloro-m-xylene	
2.788	15784	15140	0.959	0.02		
2.854	31423	23094	0.735	0.04		
2.973	42644	33649	0.789	0.05		
3.018	23775	23853	1.003	0.03		
3.054	70381	62848	0.893	0.09		
3.316	80064	79211	0.989	0.10		
3.345	121065	112881	0.932	0.15		
3.433	127960	119861	0.937	0.16		
3.519	181553	166414	0.917	0.23		
3.649	18712	16113	0.861	0.02		
3.732	222272	218351	0.982	0.29		
3.755	104758	95028	0.907	0.13		
3.814	874526	510734	0.584	1.15		
3.938	236974	195047	0.823	0.31		
3.992	178349	164592	0.923	0.23		
4.058	96259	86478	0.898	0.12		
4.135	29823	26017	0.872	0.03		
4.215	1551267	1414598	0.912	2.04		
4.261	1822774	1716464	0.942	2.39	6 Aroclor 1248	BA
4.292	2029820	1678166	0.827	2.67		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.417	539091	506604	0.940	0.70	
4.452	478503	434944	0.909	0.62	
4.545	1213527	1116690	0.920	1.59	6 Aroclor 1248
4.590	162351	147781	0.910	0.21	
4.617	160169	139129	0.869	0.21	
4.680	161111	142783	0.886	0.21	
4.737	211967	175616	0.829	0.27	
4.768	286630	267782	0.934	0.37	
4.813	754509	725687	0.962	0.99	6 Aroclor 1248
4.847	598538	556559	0.930	0.78	
4.894	2156319	1213334	0.563	2.83	6 Aroclor 1248
4.957	712127	642689	0.902	0.93	
5.038	530608	461475	0.870	0.69	6 Aroclor 1248
5.101	1304289	1161929	0.891	1.71	
5.162	2141941	1801307	0.841	2.81	7 Aroclor 1254
5.212	1662606	1442871	0.868	2.18	
5.283	217599	209216	0.961	0.28	
5.310	470698	392502	0.834	0.61	
5.362	589699	539814	0.915	0.77	
5.406	1181248	1066489	0.903	1.55	7 Aroclor 1254
5.451	2451657	2192105	0.894	3.22	
5.478	217132	218336	1.006	0.28	
5.509	2369326	2074535	0.876	3.11	7 Aroclor 1254
5.578	213730	193847	0.907	0.28	
5.604	253683	216559	0.854	0.33	
5.674	856312	807772	0.943	1.12	
5.710	501419	390543	0.779	0.65	
5.742	636718	499568	0.785	0.83	
5.790	3455936	2560725	0.741	4.54	
5.884	359122	243971	0.679	0.47	
5.931	345542	292713	0.847	0.45	
5.994	1068328	971540	0.909	1.40	
6.027	1222325	1067313	0.873	1.60	7 Aroclor 1254
6.056	3572930	3153376	0.883	4.70	
6.169	785864	515973	0.657	1.03	
6.229	224061	270486	1.207	0.29	
6.241	447925	340103	0.759	0.58	
6.300	4267685	3409663	0.799	5.61	8 Aroclor 1260
6.333	445060	396863	0.892	0.58	
6.374	167551	135520	0.809	0.22	
6.432	528231	463513	0.877	0.69	
6.510	1910967	1673479	0.876	2.51	
6.535	757312	712454	0.941	0.99	
6.560	680426	596960	0.877	0.89	
6.605	133938	117296	0.876	0.17	
6.661	111050	103544	0.932	0.14	
6.719	590281	528433	0.895	0.77	
6.757	629416	556282	0.884	0.82	
6.802	615109	560140	0.911	0.80	
6.840	356971	276535	0.775	0.46	
6.913	95375	93688	0.982	0.12	
6.943	876895	787298	0.898	1.15	
7.005	2361194	2039117	0.864	3.10	8 Aroclor 1260
7.034	264502	187353	0.708	0.34	
7.101	19602	25235	1.287	0.02	
7.120	59255	51574	0.870	0.07	
7.251	979691	874444	0.893	1.28	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.282	286420	240569	0.840	0.37	
7.336	13357	11252	0.842	0.01	
7.389	962624	826748	0.859	1.26	
7.442	979596	862940	0.881	1.28	8 Aroclor 1260
7.491	32127	19509	0.607	0.04	
7.550	49037	40388	0.824	0.06	
7.615	9169	6272	0.684	0.01	
7.691	224378	207973	0.927	0.29	
7.727	289669	252755	0.873	0.38	
7.765	39123	33519	0.857	0.05	
7.812	314396	230658	0.734	0.41	
7.862	24784	21596	0.871	0.03	
7.901	683869	604412	0.884	0.89	8 Aroclor 1260
7.960	88432	57163	0.646	0.11	
8.051	248834	207818	0.835	0.32	
8.274	717429	635412	0.886	0.94	
8.377	18337	14770	0.805	0.02	
8.570	6305145	5181653	0.822	8.86	$ 12 Decachlorobiphenyl
8.700	19518	20598	1.055	0.02	
8.724	151647	112202	0.740	0.19	
9.056	81930	63223	0.772	0.10	
9.169	79950	61609	0.771	0.10	
9.738	31818	26235	0.825	0.04	
	76005782	65102962		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318026.D
Lab Smp Id: 40157822015 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 20:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822015 x2,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.975	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.485	2.484	0.001	6067617	0.04921	49			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1822773	0.77797	780	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1213526	0.29239	290	0.00- 20.00	66.58	BA
4.812	4.812	0.000	754508	0.37166	370	0.00- 20.00	41.39	BA
4.894	4.879	0.015	2156318	0.42806	430	0.00- 20.00	118.30	BA
5.037	5.038	-0.001	530607	0.14786	150	0.00- 20.00	29.11	BA
			Average of Peak Concentrations =		400			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2141941	0.40914	410	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1181247	0.27464	280	0.00- 20.00	55.15	BA
5.508	5.510	-0.002	2369325	0.30509	300	0.00- 20.00	110.62	BA
6.027	6.027	0.000	1222324	0.25101	250	0.00- 20.00	57.07	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		310			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	4267684	0.48155	480	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	2361193	0.23578	240	0.00- 20.00	55.33	BA
7.251	7.251	0.000	979690	0.20496	200	0.00- 20.00	22.96	BA
7.442	7.443	-0.001	979596	0.33604	340	0.00- 20.00	22.95	BA
7.901	7.901	0.000	683868	0.25916	260	0.00- 20.00	16.02	BA
			Average of Peak Concentrations =		300			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	6305144	0.05755	58			

QC Flag Legend

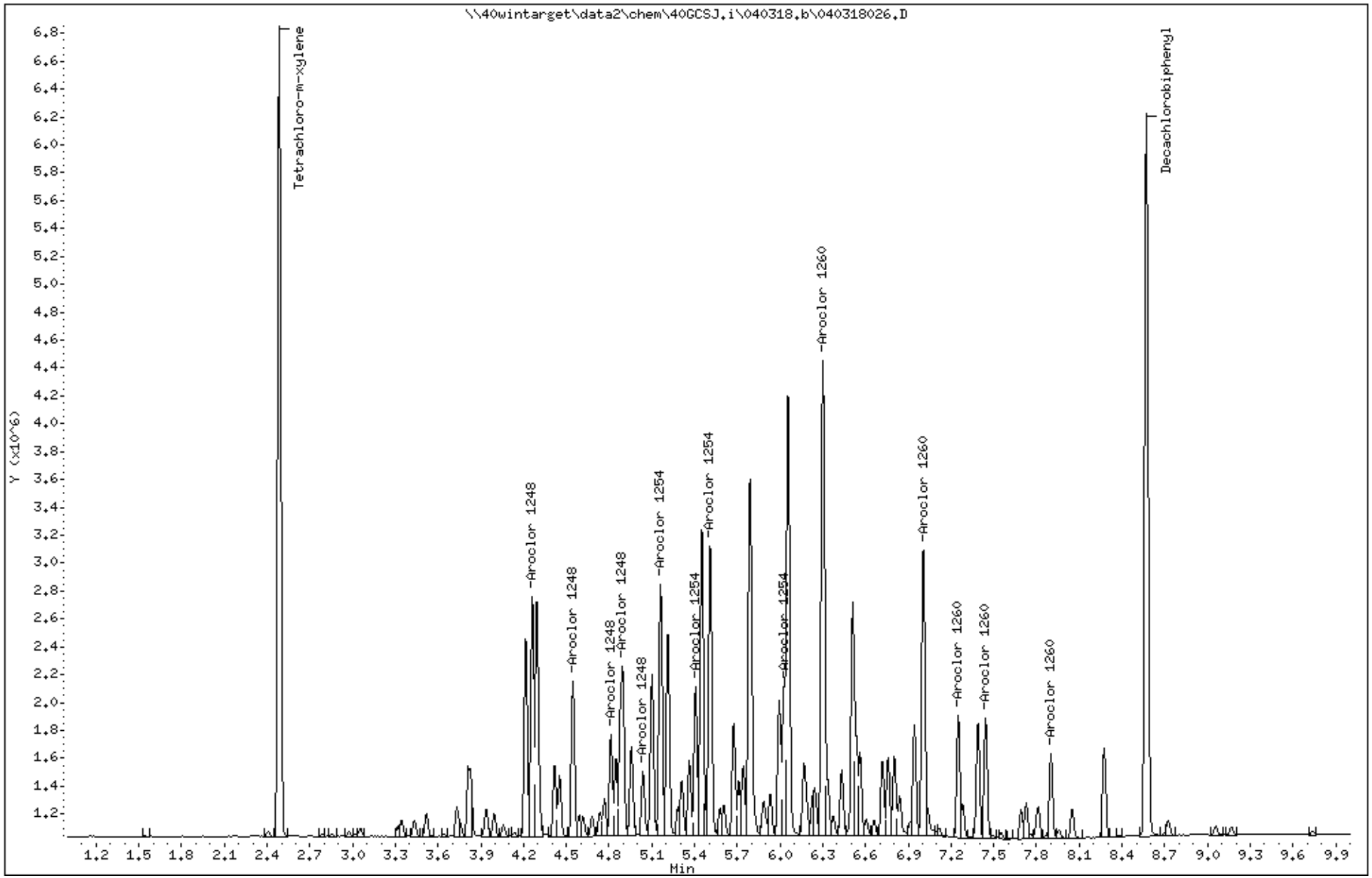
M - Compound response manually integrated.

Review Codes Legend

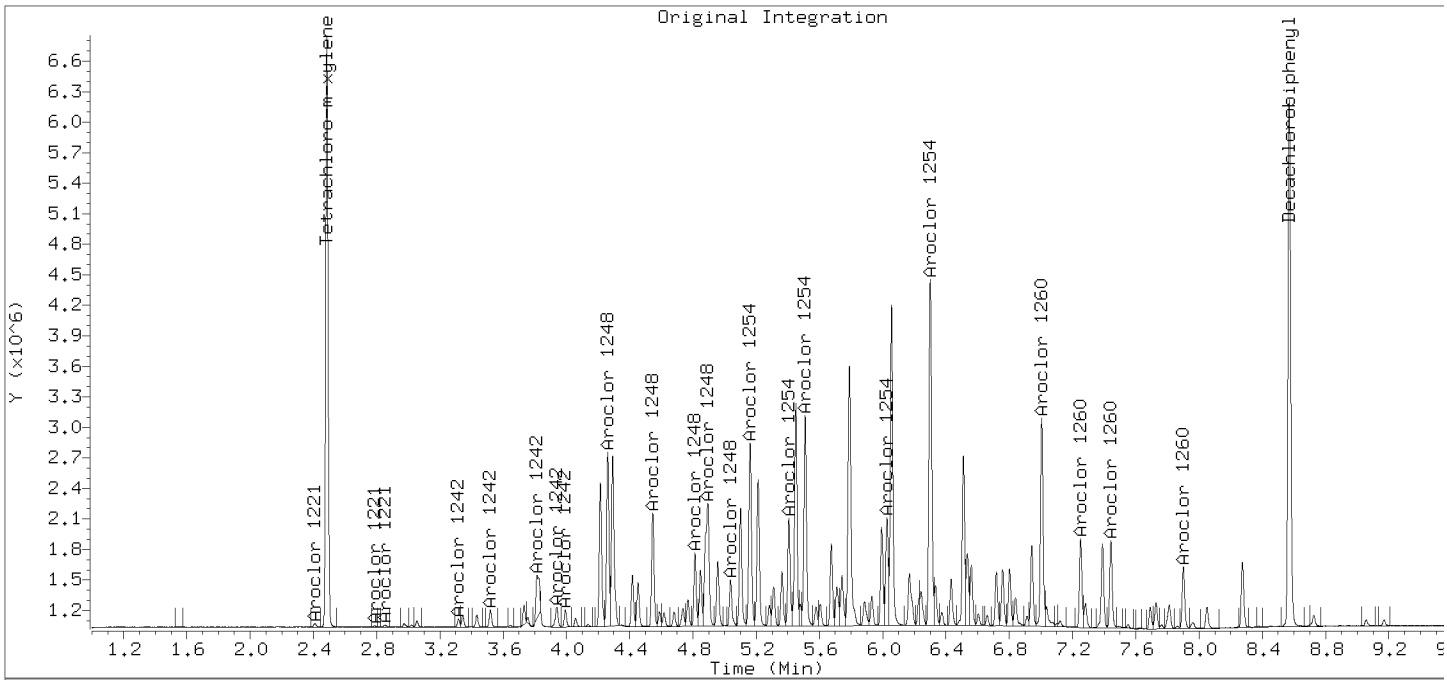
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

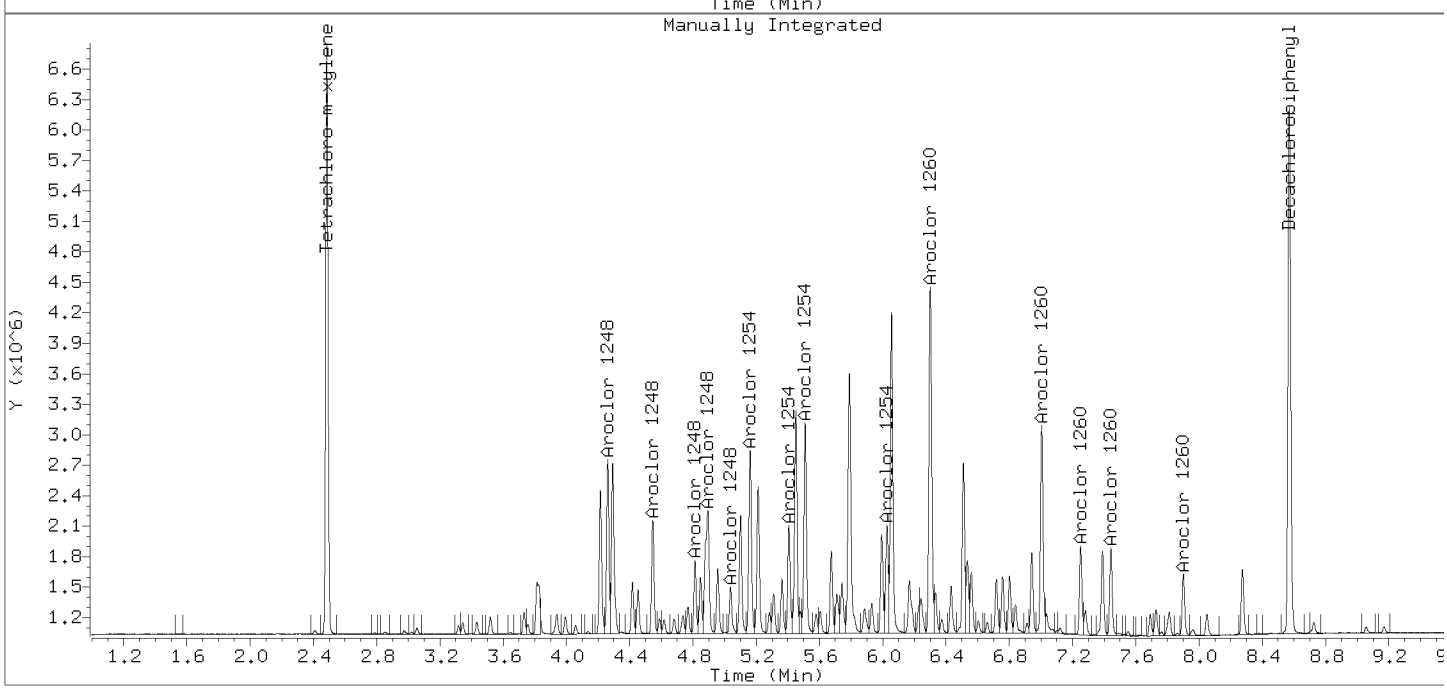
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318026.D
Date : 03-APR-2018 20:50
Client ID: AT1-170616-01-SMB-0
Sample Info: 40157822015 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 20:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822015





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	80064	0	
Aroclor 1016	80064	0	
Aroclor 1016	80064	0	
Aroclor 1016	80064	0	
Aroclor 1016	80064	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	31423	0	
Aroclor 1232	31423	0	
Aroclor 1232	31423	0	
Aroclor 1232	31423	0	

Aroclor 1232	31423	0	
Aroclor 1242	80064	0	
Aroclor 1242	80064	0	
Aroclor 1242	80064	0	
Aroclor 1242	80064	0	
Aroclor 1242	80064	0	
Aroclor 1248	1804451	1822773	BA
Aroclor 1248	1804451	1822773	BA
Aroclor 1248	1804451	1822773	BA
Aroclor 1248	1804451	1822773	BA
Aroclor 1248	1804451	1822773	BA
Aroclor 1254	2125375	2141941	BA
Aroclor 1254	2125375	2141941	BA
Aroclor 1254	2125375	2141941	BA
Aroclor 1254	2125375	2141941	BA
Aroclor 1254	2125375	2141941	BA
Aroclor 1260	4245111	4267684	BA
Aroclor 1260	4245111	4267684	BA
Aroclor 1260	4245111	4267684	BA
Aroclor 1260	4245111	4267684	BA
Aroclor 1260	4245111	4267684	BA
Tetrachloro-m-xylene	6067617	6067617	
Decachlorobiphenyl	6305144	6305144	

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SAMPLE NO.

AT1-170616-01-SMB-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822016
Date Analyzed: 04/03/2018 21:05
Lab File ID: 040318.B\040318027.D
Initial wt/vol: 10.0093 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<56.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<56.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	1100	
11097-69-1	PCB-1254 (Aroclor 1254)	776	
11096-82-5	PCB-1260 (Aroclor 1260)	333	
1336-36-3	PCB, Total	2210	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318027.D
Lab Smp Id: 40157822016 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 21:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822016 x5,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.009	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	86903	63421	0.730	0.14		
2.484	2207040	2113695	0.958	3.64	$ 2 Tetrachloro-m-xylene	
2.787	24600	20608	0.838	0.04		
2.849	56452	51016	0.904	0.09		
2.975	45228	27427	0.606	0.07		
3.017	19390	16245	0.838	0.03		
3.056	143187	133228	0.930	0.23		
3.318	258686	250359	0.968	0.42		
3.345	391745	359141	0.917	0.64		
3.433	295771	265314	0.897	0.48		
3.519	456774	411122	0.900	0.75		
3.647	43388	33298	0.767	0.07		
3.732	412537	413291	1.002	0.68		
3.755	208264	197567	0.949	0.34		
3.813	1534969	903312	0.588	2.53		
3.937	426961	345828	0.810	0.70		
3.993	300763	275130	0.915	0.49		
4.058	179410	159229	0.888	0.29		
4.137	75707	65160	0.861	0.12		
4.215	1882081	1691679	0.899	3.10		
4.260	2261974	2164297	0.957	3.73	6 Aroclor 1248	CO
4.292	2287247	1784890	0.780	3.77		
4.418	807594	780834	0.967	1.33		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	615320	569897	0.926	1.01	
4.545	1568051	1423075	0.908	2.58	6 Aroclor 1248
4.589	138839	129926	0.936	0.22	
4.617	259057	233285	0.901	0.42	
4.680	162309	141863	0.874	0.26	
4.736	205745	168290	0.818	0.33	
4.768	244820	228787	0.935	0.40	
4.812	605432	577080	0.953	0.99	6 Aroclor 1248
4.848	597170	563420	0.943	0.98	
4.894	2266231	1435993	0.634	3.74	6 Aroclor 1248
4.956	745672	663134	0.889	1.23	
5.037	427875	384740	0.899	0.70	6 Aroclor 1248
5.059	30541	56343	1.845	0.05	
5.101	1420236	1200996	0.846	2.34	
5.161	1915100	1644207	0.859	3.16	7 Aroclor 1254
5.212	1516576	1299358	0.857	2.50	
5.284	211627	202306	0.956	0.34	
5.310	457529	379078	0.829	0.75	
5.363	547162	505069	0.923	0.90	
5.406	964048	861491	0.894	1.59	7 Aroclor 1254
5.450	2360669	2191993	0.929	3.89	
5.478	253822	259257	1.021	0.41	
5.509	2233136	1873706	0.839	3.68	7 Aroclor 1254
5.577	186634	165597	0.887	0.30	
5.604	226682	195838	0.864	0.37	
5.675	803668	756678	0.942	1.32	
5.709	509771	401134	0.787	0.84	
5.743	484710	371095	0.766	0.80	
5.788	2593776	2016504	0.777	4.28	
5.820	136057	169991	1.249	0.22	
5.883	334680	225961	0.675	0.55	
5.931	256928	212867	0.829	0.42	
5.994	802004	740580	0.923	1.32	
6.027	953790	853361	0.895	1.57	7 Aroclor 1254
6.055	2676784	2279694	0.852	4.41	
6.169	657468	399039	0.607	1.08	
6.228	150363	178513	1.187	0.24	
6.242	338246	248958	0.736	0.55	
6.300	3124233	2481427	0.794	5.67	7 Aroclor 1254
6.331	319221	280518	0.879	0.52	
6.374	128375	100848	0.786	0.21	
6.431	361342	291240	0.806	0.59	
6.509	1201621	1067669	0.889	1.98	
6.535	534702	501820	0.939	0.88	
6.562	436743	370332	0.848	0.72	
6.605	85310	75110	0.880	0.14	
6.659	79143	72808	0.920	0.13	
6.718	429165	380281	0.886	0.70	
6.758	399567	341581	0.855	0.65	
6.802	387823	340561	0.878	0.64	
6.840	206058	157452	0.764	0.34	
6.913	47051	49325	1.048	0.07	
6.943	608095	560483	0.922	1.00	
7.004	1379917	1192588	0.864	2.27	8 Aroclor 1260
7.034	98218	104965	1.069	0.16	
7.072	24925	24509	0.983	0.04	
7.121	29941	27983	0.935	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.252	569645	511926	0.899	0.94	8 Aroclor 1260
7.281	165128	136355	0.826	0.27	
7.390	458969	399065	0.869	0.75	
7.442	468985	415598	0.886	0.77	8 Aroclor 1260
7.490	23526	15443	0.656	0.03	
7.552	20283	18856	0.930	0.03	
7.616	16903	9149	0.541	0.02	
7.690	111560	102001	0.914	0.18	
7.727	116116	104835	0.903	0.19	
7.765	24437	19336	0.791	0.04	
7.812	177364	129067	0.728	0.29	
7.863	16542	13274	0.802	0.02	
7.900	303739	263003	0.866	0.50	8 Aroclor 1260
7.959	47416	27052	0.571	0.07	
8.050	76663	60861	0.794	0.12	
8.275	268698	236764	0.881	0.44	
8.381	12757	9048	0.709	0.02	
8.570	2373822	2064712	0.870	3.91	$ 12 Decachlorobiphenyl
8.702	10822	13300	1.229	0.01	
8.725	63237	45367	0.717	0.10	
9.056	14433	13812	0.957	0.02	
9.170	65751	46686	0.710	0.10	
9.735	11547	9323	0.807	0.01	
	60564994	51821528		100.000	

Total unknown % area = 60

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318027.D
Lab Smp Id: 40157822016 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 21:05
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822016 x5,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.009	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	2207040	0.01790	45			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	2261973	0.96543	2400	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	1568050	0.37782	940	0.00- 20.00	69.32	CO
4.812	4.812	0.000	605432	0.29823	740	0.00- 20.00	26.77	CO
4.893	4.879	0.014	2266231	0.44988	1100	0.00- 20.00	100.19	CO
5.036	5.038	-0.002	427875	0.11923	300	0.00- 20.00	18.92	CO
Average of Peak Concentrations =					1100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1915100	0.36581	910	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	964048	0.22414	560	0.00- 20.00	50.34	BA
5.509	5.510	-0.001	2233135	0.28755	720	0.00- 20.00	116.61	BA
6.027	6.027	0.000	953789	0.19586	490	0.00- 20.00	49.80	BA
6.299	6.299	0.000	3124232	0.48013	1200	0.00- 20.00	163.14	BA
Average of Peak Concentrations =					780			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.004	7.006	-0.002	1379916	0.13779	340	0.00- 20.00	47.25	CO
7.252	7.251	0.001	569644	0.11918	300	0.00- 20.00	18.23	CO
7.442	7.443	-0.001	468985	0.16088	400	0.00- 20.00	15.01	CO
7.900	7.901	-0.001	303738	0.11511	290	0.00- 20.00	9.72	CO
Average of Peak Concentrations =					330			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2373822	0.02167	54			

QC Flag Legend

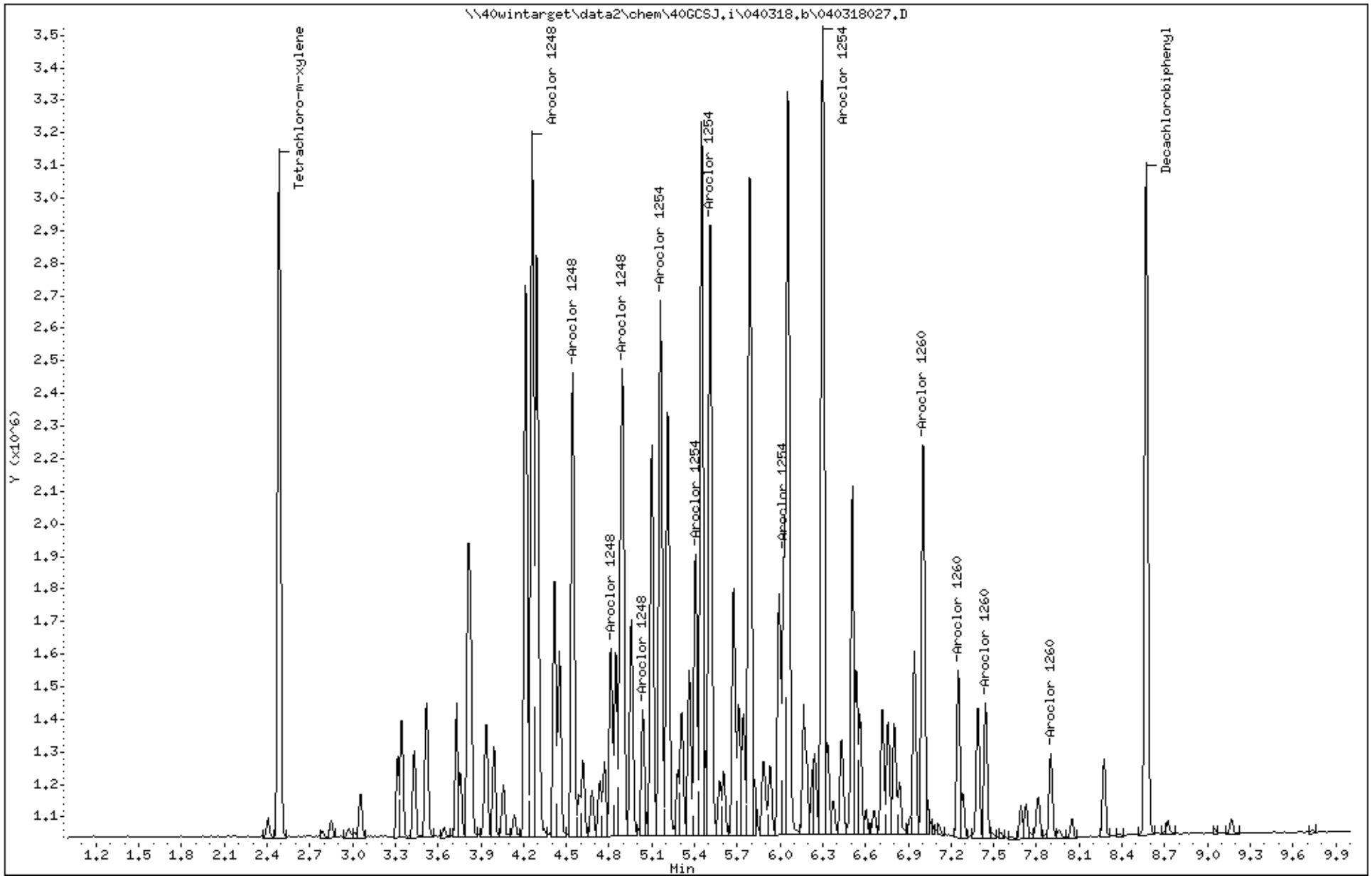
M - Compound response manually integrated.

Review Codes Legend

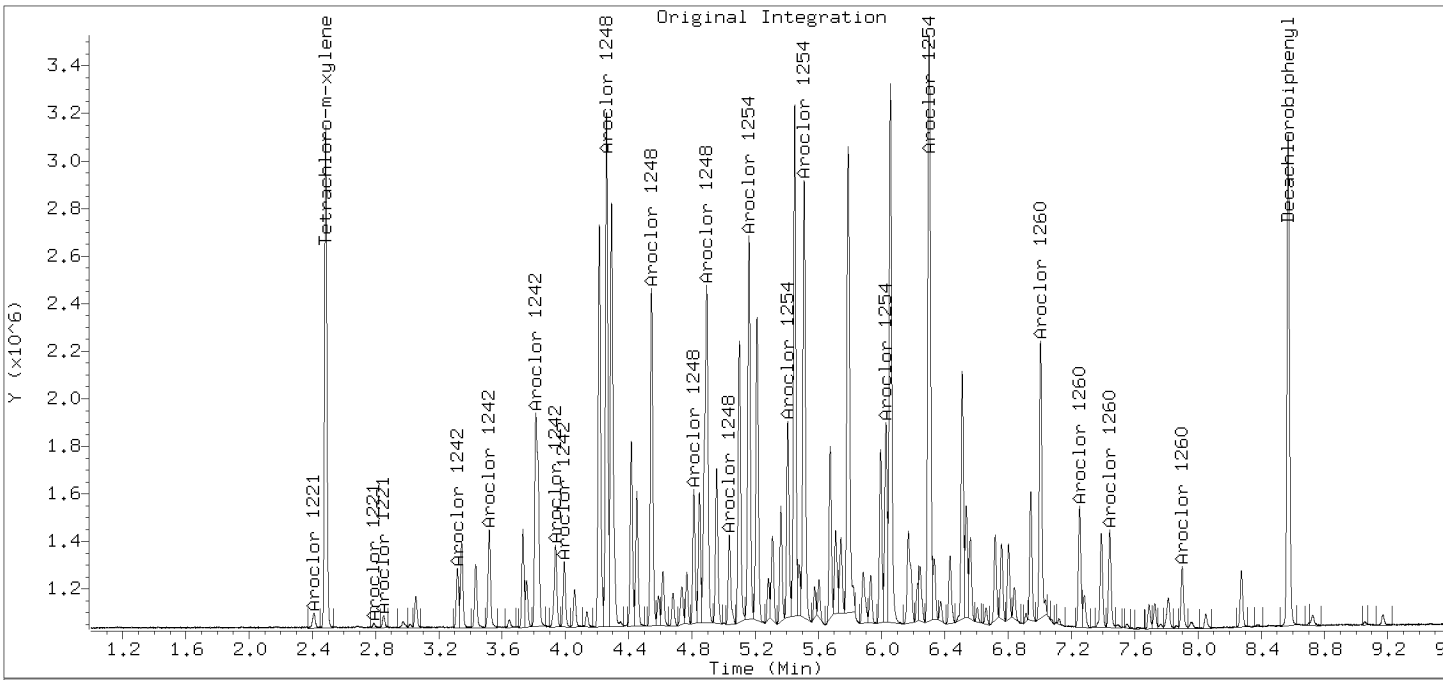
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

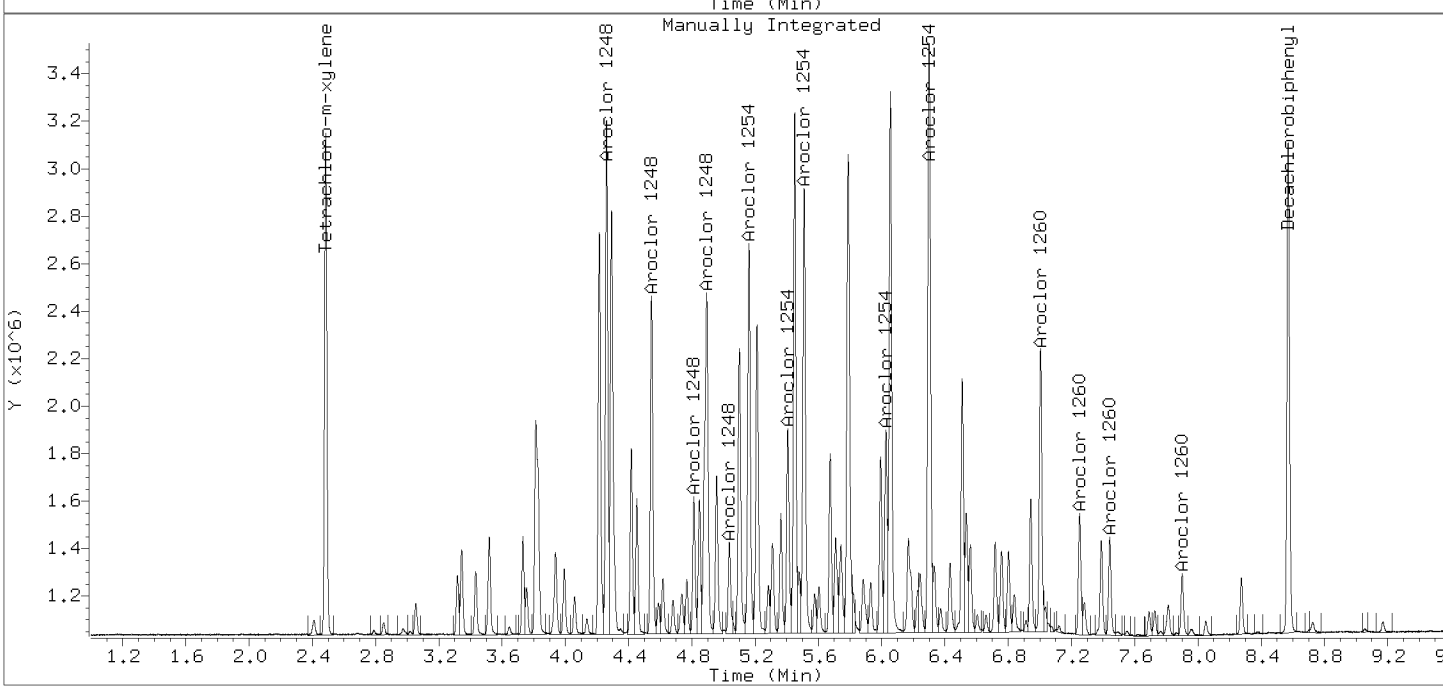
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318027.D
Date : 03-APR-2018 21:05
Client ID: AT1-170616-01-SMB-0
Sample Info: 40157822016 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 21:05 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822016





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	258685	0	
Aroclor 1016	258685	0	
Aroclor 1016	258685	0	
Aroclor 1016	258685	0	
Aroclor 1016	258685	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	56452	0	
Aroclor 1232	56452	0	
Aroclor 1232	56452	0	
Aroclor 1232	56452	0	

Aroclor 1232	56452	0	
Aroclor 1242	258685	0	
Aroclor 1242	258685	0	
Aroclor 1242	258685	0	
Aroclor 1242	258685	0	
Aroclor 1242	258685	0	
Aroclor 1248	2251804	2261973	CO
Aroclor 1248	2251804	2261973	CO
Aroclor 1248	2251804	2261973	CO
Aroclor 1248	2251804	2261973	CO
Aroclor 1248	2251804	2261973	CO
Aroclor 1254	1821196	1915100	BA
Aroclor 1254	1821196	1915100	BA
Aroclor 1254	1821196	1915100	BA
Aroclor 1254	1821196	1915100	BA
Aroclor 1254	1821196	1915100	BA
Aroclor 1260	3067729	0	CO
Aroclor 1260	3067729	0	CO
Aroclor 1260	3067729	0	CO
Aroclor 1260	3067729	0	CO
Aroclor 1260	3067729	0	CO
Tetrachloro-m-xylene	2207040	2207040	
Decachlorobiphenyl	2373822	2373822	

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SAMPLE NO.

AT1-170616-01-SMB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822017
Date Analyzed: 04/03/2018 21:53
Lab File ID: 040318.B\040318030.D
Initial wt/vol: 9.9716 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	208	
11097-69-1	PCB-1254 (Aroclor 1254)	257	
11096-82-5	PCB-1260 (Aroclor 1260)	283	
1336-36-3	PCB, Total	748	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318030.D
Lab Smp Id: 40157822017 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 21:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822017 x2,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.972	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.172	11686	8810	0.754	0.01		
2.411	28979	22492	0.776	0.04		
2.485	5400536	4981579	0.922	8.76	$ 2 Tetrachloro-m-xylene	
2.787	15489	12350	0.797	0.02		
2.853	17751	13347	0.752	0.02		
2.975	19168	15532	0.810	0.03		
3.021	11877	11668	0.982	0.01		
3.053	28330	25944	0.916	0.04		
3.318	28192	27767	0.985	0.04	5 Aroclor 1016	BA
3.343	43103	38578	0.895	0.06		
3.435	43238	41321	0.956	0.07		
3.520	67258	62118	0.924	0.10	5 Aroclor 1016	BA
3.643	13080	8963	0.685	0.02		
3.732	94365	64954	0.688	0.15		
3.826	305980	176680	0.577	0.49	5 Aroclor 1016	BA
3.938	88311	65702	0.744	0.14	5 Aroclor 1016	BA
3.993	78829	70537	0.895	0.12	5 Aroclor 1016	BA
4.059	46398	36876	0.795	0.07		
4.138	21460	14482	0.675	0.03		
4.215	728321	667635	0.917	1.18		
4.260	828494	785650	0.948	1.34	6 Aroclor 1248	CO
4.292	938550	794636	0.847	1.52		
4.417	294760	276542	0.938	0.47		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	226219	201480	0.891	0.36	
4.546	552034	517852	0.938	0.89	6 Aroclor 1248
4.588	83652	78093	0.934	0.13	
4.619	78945	62250	0.789	0.12	
4.681	95983	85316	0.889	0.15	
4.736	124650	105469	0.846	0.20	
4.767	186659	171674	0.920	0.30	
4.812	433008	405850	0.937	0.70	6 Aroclor 1248
4.847	220321	204041	0.926	0.35	
4.893	1361581	828548	0.609	2.20	6 Aroclor 1248
4.956	476023	422651	0.888	0.77	
5.037	240858	219561	0.912	0.39	6 Aroclor 1248
5.058	19401	30479	1.571	0.03	
5.101	971860	840377	0.865	1.57	
5.161	1808253	1513115	0.837	2.93	7 Aroclor 1254
5.212	1390562	1240550	0.892	2.25	
5.282	154412	145757	0.944	0.25	
5.309	331460	283662	0.856	0.53	
5.364	495351	453926	0.916	0.80	
5.406	975024	888340	0.911	1.58	7 Aroclor 1254
5.450	1887251	1633178	0.865	3.06	
5.477	164877	170890	1.036	0.26	
5.509	1764266	1530786	0.868	2.86	7 Aroclor 1254
5.576	178742	163273	0.913	0.29	
5.603	187501	167382	0.893	0.30	
5.675	780348	743911	0.953	1.26	
5.709	442552	341975	0.773	0.71	
5.742	571629	432236	0.756	0.92	
5.789	3146274	2364967	0.752	5.10	
5.885	315933	222835	0.705	0.51	
5.931	308882	268462	0.869	0.50	
5.993	996991	928746	0.932	1.61	
6.026	1091779	938143	0.859	1.77	7 Aroclor 1254
6.055	3453098	3011651	0.872	5.60	
6.168	811918	559207	0.689	1.31	
6.226	232759	268308	1.153	0.37	
6.240	434570	324377	0.746	0.70	
6.300	4206045	3360350	0.799	6.82	8 Aroclor 1260
6.332	451826	422423	0.935	0.73	
6.373	177029	142919	0.807	0.28	
6.432	483935	396146	0.819	0.78	
6.509	1838284	1601002	0.871	2.98	
6.534	737548	695841	0.943	1.19	
6.560	666464	601972	0.903	1.08	
6.604	124226	107130	0.862	0.20	
6.659	122986	113236	0.921	0.19	
6.718	599671	552156	0.921	0.97	
6.758	614013	534994	0.871	0.99	
6.802	594391	520377	0.875	0.96	
6.838	328281	265570	0.809	0.53	
6.912	94485	91370	0.967	0.15	
6.942	629660	574892	0.913	1.02	
7.004	2208482	1957284	0.886	3.58	8 Aroclor 1260
7.034	209177	174534	0.834	0.33	
7.073	38873	41252	1.061	0.06	
7.121	62655	51262	0.818	0.10	
7.250	935367	844848	0.903	1.51	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.280	275180	230795	0.839	0.44	
7.326	10179	9434	0.927	0.01	
7.389	885074	750246	0.848	1.43	
7.441	874111	795606	0.910	1.41	8 Aroclor 1260
7.492	26733	17374	0.650	0.04	
7.553	41264	31673	0.768	0.06	
7.690	213086	197394	0.926	0.34	
7.725	267250	231573	0.867	0.43	
7.765	29608	28447	0.961	0.04	
7.813	283088	197280	0.697	0.45	
7.863	17371	16309	0.939	0.02	
7.900	580112	515532	0.889	0.94	8 Aroclor 1260
7.959	76532	48990	0.640	0.12	
8.049	137205	117632	0.857	0.22	
8.275	695930	605223	0.870	1.12	
8.378	15013	11050	0.736	0.02	
8.452	9561	7667	0.802	0.01	
8.570	5690130	4925894	0.866	9.78	$ 12 Decachlorobiphenyl
8.704	15197	16245	1.069	0.02	
8.725	88921	65137	0.733	0.14	
9.055	44235	31379	0.709	0.07	
9.168	36291	28693	0.791	0.05	
9.736	15423	11449	0.742	0.02	
9.955	11828	7477	0.632	0.01	
	61612502	52941538		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318030.D
Lab Smp Id: 40157822017 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 21:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822017 x2,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.972	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	5400536	0.04380	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			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	828493	0.35361	350	0.00- 20.00	100.00(M)	CO
4.546	4.546	0.000	552034	0.13301	130	0.00- 20.00	66.63	CO
4.812	4.812	0.000	433008	0.21330	210	0.00- 20.00	52.26	CO
4.893	4.879	0.014	1361581	0.27029	270	0.00- 20.00	164.34	CO
5.036	5.038	-0.002	240858	0.06712	67	0.00- 20.00	29.07	CO
Average of Peak Concentrations =					210			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1808253	0.34540	350	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	975024	0.22669	230	0.00- 20.00	53.92	BA
5.509	5.510	-0.001	1764266	0.22718	230	0.00- 20.00	97.57	BA
6.026	6.027	-0.001	1091778	0.22420	220	0.00- 20.00	60.38	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					260			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4206044	0.47460	480	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	2208481	0.22053	220	0.00- 20.00	52.51	BA
7.250	7.251	-0.001	935367	0.19569	200	0.00- 20.00	22.24	BA
7.441	7.443	-0.002	874111	0.29986	300	0.00- 20.00	20.78	BA
7.900	7.901	-0.001	580112	0.21984	220	0.00- 20.00	13.79	BA
Average of Peak Concentrations =					280			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5690130	0.05194	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\040318.b\040318030.D

Page 6

Date : 03-APR-2018 21:53

Client ID: AT1-170616-01-SMB-0

Instrument: 40GCSJ.i

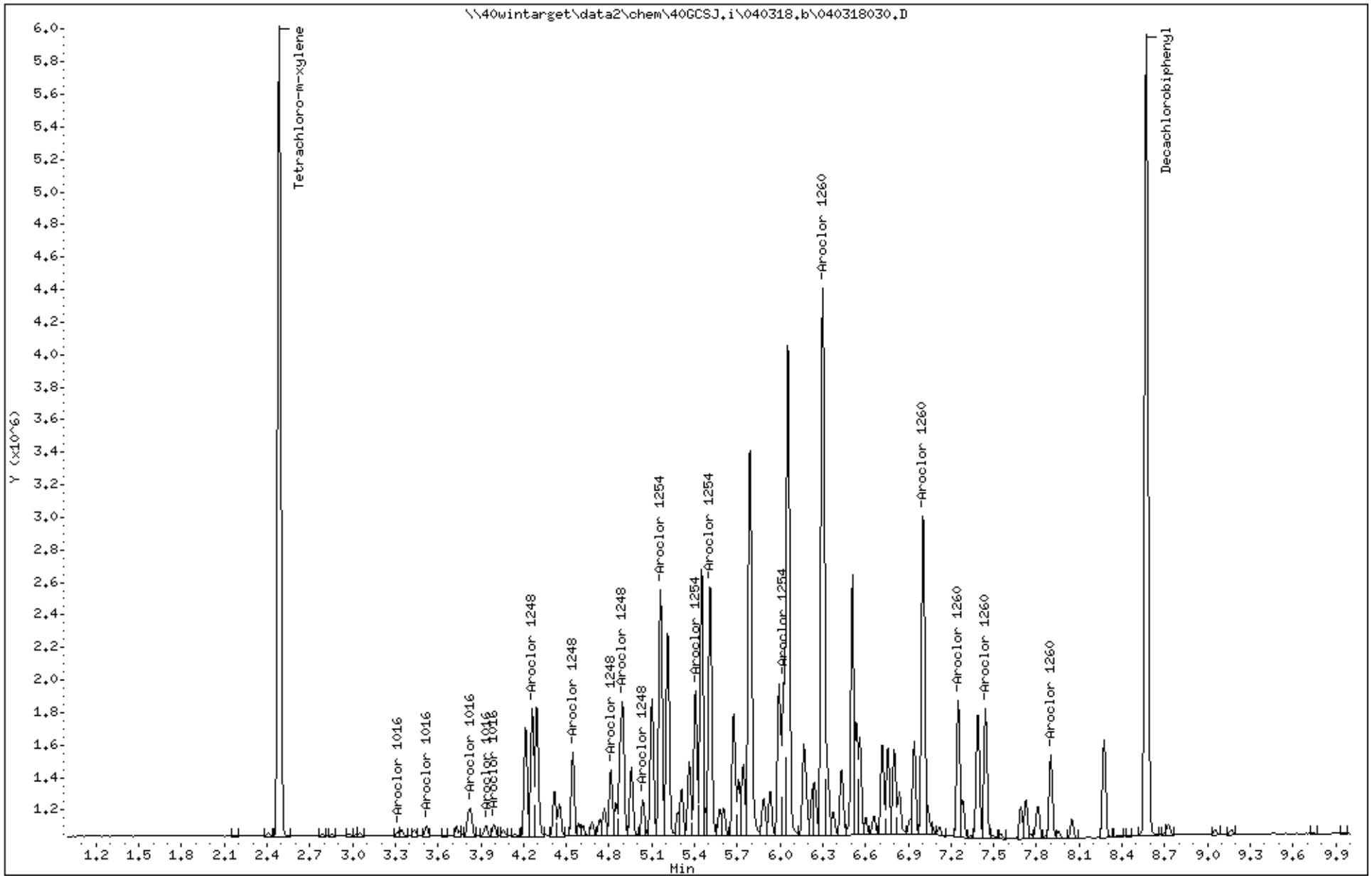
Sample Info: 40157822017 x2,

Volume Injected (uL): 1.0

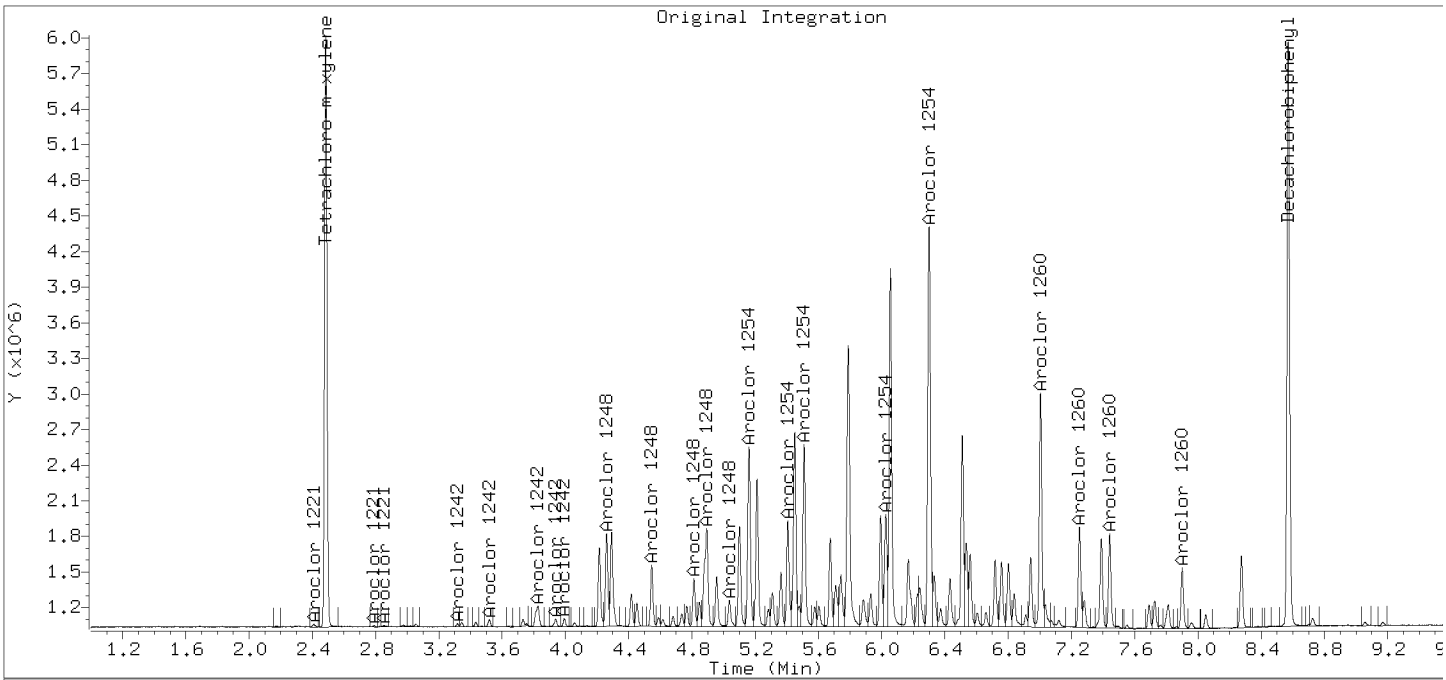
Operator: BLM

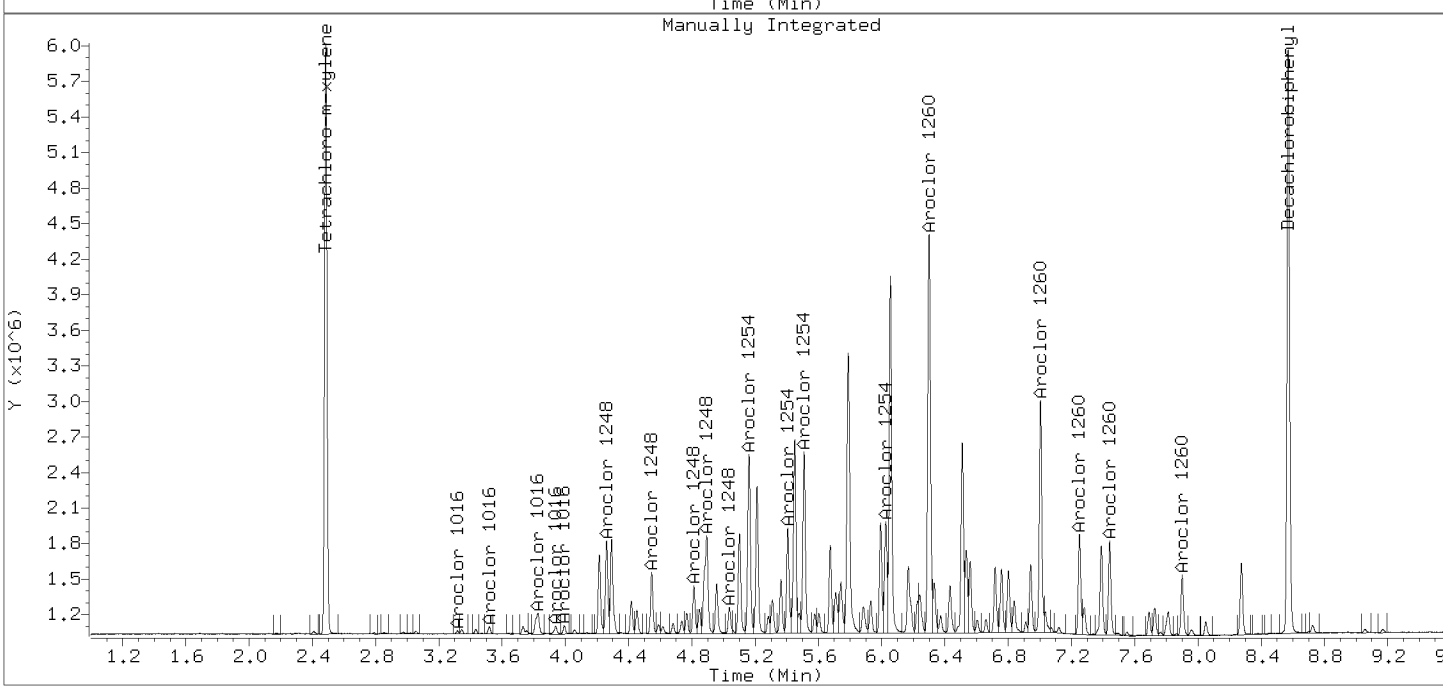
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 21:53 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822017





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1016	0	0	BA
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	17751	0	
Aroclor 1232	17751	0	
Aroclor 1232	17751	0	
Aroclor 1232	17751	0	

Aroclor 1232	17751	0	
Aroclor 1242	28191	0	
Aroclor 1242	28191	0	
Aroclor 1242	28191	0	
Aroclor 1242	28191	0	
Aroclor 1242	28191	0	
Aroclor 1248	817644	828493	CO
Aroclor 1248	817644	828493	CO
Aroclor 1248	817644	828493	CO
Aroclor 1248	817644	828493	CO
Aroclor 1248	817644	828493	CO
Aroclor 1254	1810128	1808253	BA
Aroclor 1254	1810128	1808253	BA
Aroclor 1254	1810128	1808253	BA
Aroclor 1254	1810128	1808253	BA
Aroclor 1254	1810128	1808253	BA
Aroclor 1260	4227439	4206044	BA
Aroclor 1260	4227439	4206044	BA
Aroclor 1260	4227439	4206044	BA
Aroclor 1260	4227439	4206044	BA
Aroclor 1260	4227439	4206044	BA
Tetrachloro-m-xylene	5400536	5400536	
Decachlorobiphenyl	5690130	5690130	

==========

SAMPLE NO.

AT1-170616-01-SMB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822018
Date Analyzed: 04/03/2018 22:41
Lab File ID: 040318.B\040318033.D
Initial wt/vol: 10.0028 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)	163	
11097-69-1	PCB-1254 (Aroclor 1254)	139	
11096-82-5	PCB-1260 (Aroclor 1260)	144	
1336-36-3	PCB, Total	446	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318033.D
Lab Smp Id: 40157822018 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 22:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822018,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.003	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.435	11817	8660	0.733	0.01		
1.535	10465	10103	0.965	0.01		
1.954	22084	13412	0.607	0.02		
2.199	57865	36318	0.628	0.07		
2.410	77734	65766	0.846	0.09		
2.484	10795401	10432558	0.966	14.20	$ 2 Tetrachloro-m-xylene	
2.615	12526	6452	0.515	0.01		
2.786	25945	22515	0.868	0.03		
2.850	36530	30018	0.822	0.04		
2.975	71948	54704	0.760	0.09		
3.018	44665	45234	1.013	0.05		
3.054	79538	71608	0.900	0.10		
3.317	70012	72328	1.033	0.08		
3.344	115063	107390	0.933	0.14		
3.433	91424	92579	1.013	0.11		
3.519	175887	161241	0.917	0.22		
3.644	14994	14616	0.975	0.01		
3.731	171552	169430	0.988	0.21		
3.757	70978	71147	1.002	0.08		
3.814	322768	386514	1.197	0.40		
3.825	417258	406261	0.974	0.52		
3.938	202552	162816	0.804	0.25		
3.992	168107	158116	0.941	0.21		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.058	100795	80934	0.803	0.12	
4.136	34054	24642	0.724	0.04	
4.215	1288556	1185503	0.920	1.62	
4.261	1470390	1383481	0.941	1.85	6 Aroclor 1248
4.292	1511052	1273086	0.843	1.90	
4.348	34422	26397	0.767	0.04	
4.417	508693	475379	0.935	0.64	
4.452	389017	353038	0.908	0.49	
4.546	969644	886686	0.914	1.22	6 Aroclor 1248
4.588	121728	111235	0.914	0.15	
4.618	126573	114701	0.906	0.15	
4.681	126104	113172	0.897	0.15	
4.737	168017	141331	0.841	0.21	
4.767	226810	213243	0.940	0.28	
4.813	576435	545589	0.946	0.72	6 Aroclor 1248
4.848	480997	459697	0.956	0.60	
4.895	1873980	1127754	0.602	2.36	6 Aroclor 1248
4.956	577769	523607	0.906	0.72	
5.038	397995	356427	0.896	0.50	6 Aroclor 1248
5.058	34725	53329	1.536	0.04	
5.101	1155402	1010772	0.875	1.45	
5.161	1922679	1662532	0.865	2.42	7 Aroclor 1254
5.212	1489800	1301873	0.874	1.87	
5.283	177107	166883	0.942	0.22	
5.310	435010	369300	0.849	0.54	
5.362	534480	474941	0.889	0.67	
5.406	1073393	974110	0.908	1.35	7 Aroclor 1254
5.450	2266582	2037694	0.899	2.85	
5.477	196762	212207	1.078	0.24	
5.509	2101548	1808017	0.860	2.65	7 Aroclor 1254
5.576	179919	162223	0.902	0.22	
5.603	219245	185217	0.845	0.27	
5.674	820688	779091	0.949	1.03	
5.709	474200	365646	0.771	0.59	
5.742	547999	408143	0.745	0.69	
5.788	3201008	2350410	0.734	4.03	
5.883	341381	220500	0.646	0.43	
5.930	306889	249518	0.813	0.38	
5.994	964790	890100	0.923	1.21	
6.026	1104209	954422	0.864	1.39	7 Aroclor 1254
6.056	3384756	2886240	0.853	4.27	
6.169	823576	535480	0.650	1.03	
6.226	198189	247154	1.247	0.25	
6.241	428296	312934	0.731	0.54	
6.299	3969877	3209277	0.808	5.00	8 Aroclor 1260
6.333	443216	392891	0.886	0.55	
6.373	166873	136230	0.816	0.21	
6.432	486249	389691	0.801	0.61	
6.510	1837440	1598235	0.870	2.31	
6.536	711603	686191	0.964	0.89	
6.560	657489	591784	0.900	0.82	
6.604	120275	110057	0.915	0.15	
6.660	118367	112838	0.953	0.14	
6.718	581857	512446	0.881	0.73	
6.758	572960	507242	0.885	0.72	
6.801	594979	530284	0.891	0.75	
6.839	326060	261599	0.802	0.41	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.911	86030	87278	1.015	0.10	
6.942	796141	740979	0.931	1.00	
7.005	2283382	2051518	0.898	2.88	8 Aroclor 1260
7.035	231785	167463	0.722	0.29	
7.102	5658	8611	1.522	0.00	
7.121	43996	42622	0.969	0.05	
7.250	932004	830734	0.891	1.17	8 Aroclor 1260
7.281	279909	228651	0.817	0.35	
7.338	15520	14090	0.908	0.01	
7.389	894907	776275	0.867	1.12	
7.442	927068	817591	0.882	1.16	8 Aroclor 1260
7.494	37361	24699	0.661	0.04	
7.551	50949	39901	0.783	0.06	
7.622	25773	13573	0.527	0.03	
7.691	217473	202933	0.933	0.27	
7.728	296469	259388	0.875	0.37	
7.763	38338	34729	0.906	0.04	
7.812	297708	209854	0.705	0.37	
7.862	24510	21298	0.869	0.03	
7.900	650460	565294	0.869	0.82	8 Aroclor 1260
7.959	87754	53555	0.610	0.11	
8.049	129716	118084	0.910	0.16	
8.275	776403	688863	0.887	0.97	
8.377	20098	16072	0.800	0.02	
8.571	10577304	8905816	0.842	13.34	$ 12 Decachlorobiphenyl
8.705	38275	46376	1.212	0.04	
8.725	164973	129445	0.785	0.20	
8.885	10723	11330	1.057	0.01	
9.055	65247	49501	0.759	0.08	
9.169	76493	64880	0.848	0.09	
9.226	19483	10671	0.548	0.02	
9.738	113121	91307	0.807	0.14	
9.879	22503	17748	0.789	0.02	
9.963	9591	8313	0.867	0.01	
	79267149	69002631		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318033.D
Lab Smp Id: 40157822018 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 22:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822018,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.003	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	10795400	0.08756	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	1470390	0.62757	310	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	969643	0.23363	120	0.00- 20.00	65.94	CO
4.813	4.812	0.001	576434	0.28395	140	0.00- 20.00	39.20	CO
4.894	4.879	0.015	1873979	0.37201	180	0.00- 20.00	127.45	CO
5.037	5.038	-0.001	397994	0.11091	55	0.00- 20.00	27.07	CO
Average of Peak Concentrations =					160			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1922679	0.36726	180	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1073393	0.24957	120	0.00- 20.00	55.83	BA
5.509	5.510	-0.001	2101547	0.27061	140	0.00- 20.00	109.30	BA
6.025	6.027	-0.002	1104209	0.22675	110	0.00- 20.00	57.43	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					140			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	3969877	0.44795	220	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	2283382	0.22801	110	0.00- 20.00	57.52	BA
7.250	7.251	-0.001	932004	0.19499	97	0.00- 20.00	23.48	BA
7.441	7.443	-0.002	927067	0.31802	160	0.00- 20.00	23.35	BA
7.899	7.901	-0.002	650459	0.24650	120	0.00- 20.00	16.38	BA
Average of Peak Concentrations =					140			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10577304	0.09654	48			

QC Flag Legend

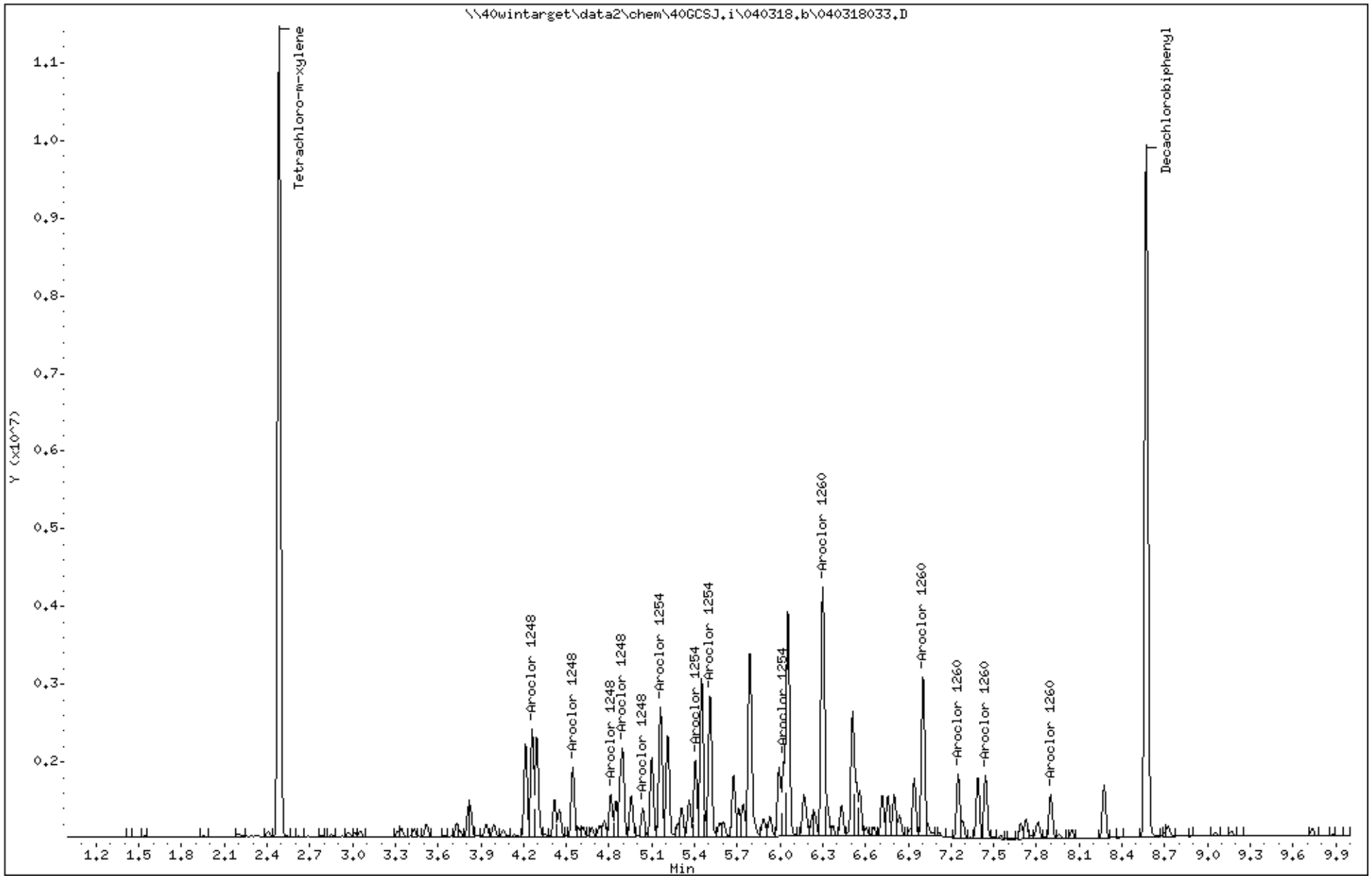
M - Compound response manually integrated.

Review Codes Legend

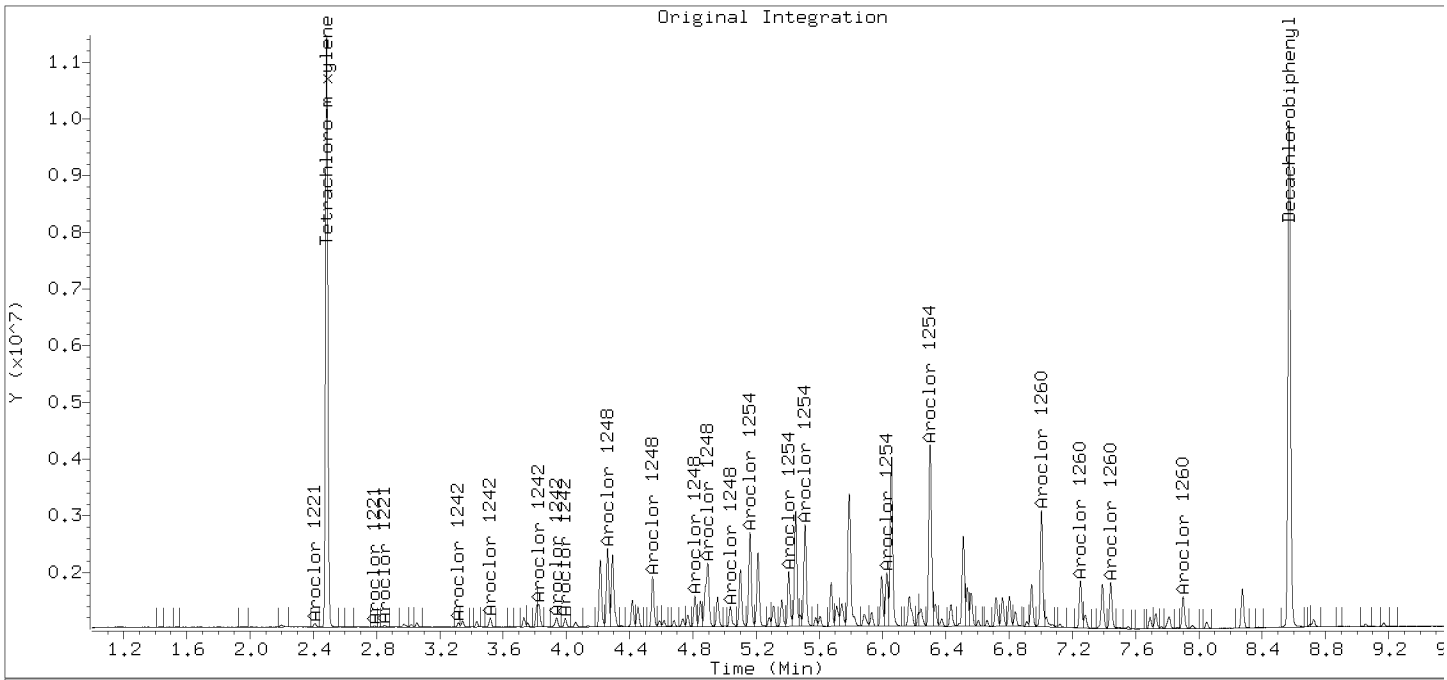
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

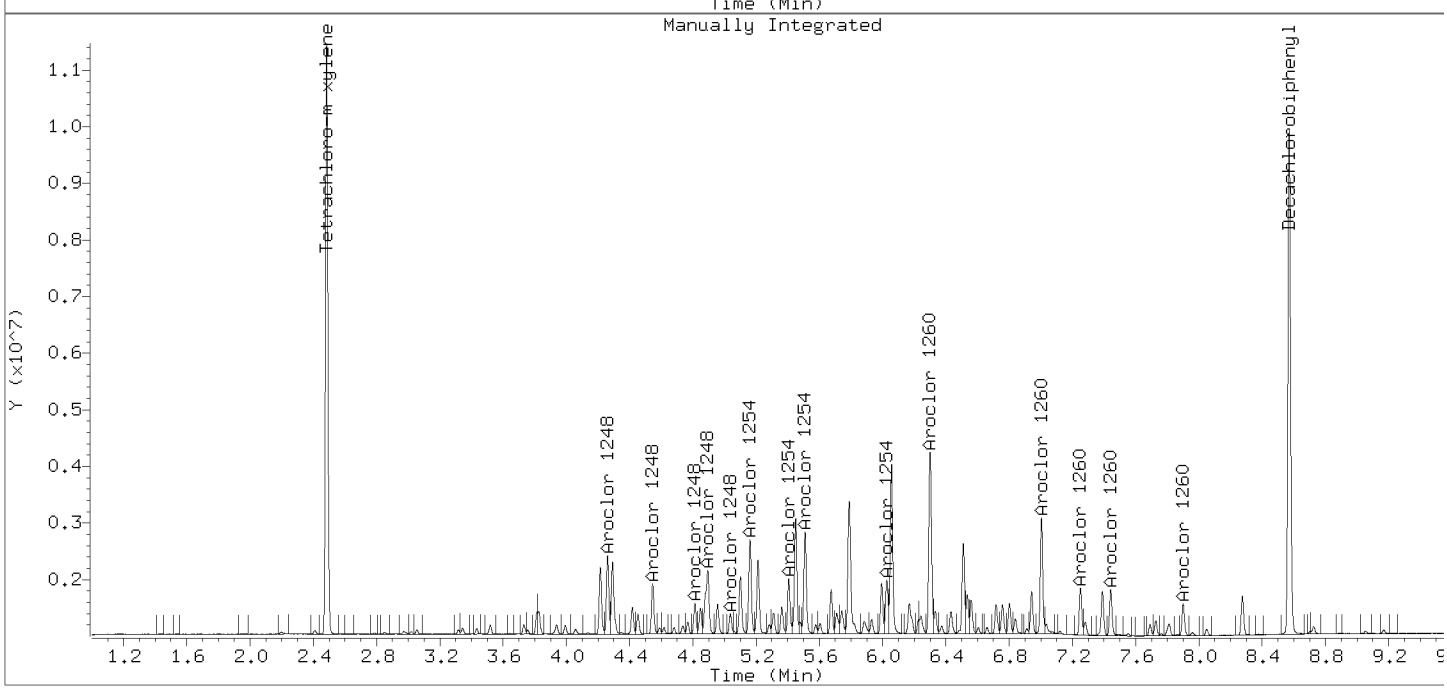
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318033.D
Date : 03-APR-2018 22:41
Client ID: AT1-170616-01-SMB-0
Sample Info: 40157822018,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318033.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 22:41 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822018





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	70012	0	
Aroclor 1016	70012	0	
Aroclor 1016	70012	0	
Aroclor 1016	70012	0	
Aroclor 1016	70012	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	36529	0	
Aroclor 1232	36529	0	
Aroclor 1232	36529	0	
Aroclor 1232	36529	0	

Aroclor 1232	36529	0	
Aroclor 1242	70012	0	
Aroclor 1242	70012	0	
Aroclor 1242	70012	0	
Aroclor 1242	70012	0	
Aroclor 1242	70012	0	
Aroclor 1248	1460575	1470390	CO
Aroclor 1248	1460575	1470390	CO
Aroclor 1248	1460575	1470390	CO
Aroclor 1248	1460575	1470390	CO
Aroclor 1248	1460575	1470390	CO
Aroclor 1254	1897722	1922679	BA
Aroclor 1254	1897722	1922679	BA
Aroclor 1254	1897722	1922679	BA
Aroclor 1254	1897722	1922679	BA
Aroclor 1254	1897722	1922679	BA
Aroclor 1260	3947280	3969877	BA
Aroclor 1260	3947280	3969877	BA
Aroclor 1260	3947280	3969877	BA
Aroclor 1260	3947280	3969877	BA
Aroclor 1260	3947280	3969877	BA
Tetrachloro-m-xylene	10795400	10795400	
Decachlorobiphenyl	10577304	10577304	

==========

SAMPLE NO.

AT1-170616-01-SMB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822019
Date Analyzed: 04/03/2018 22:56
Lab File ID: 040318.B\040318034.D
Initial wt/vol: 10.0023 Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<34.2	U
11141-16-5	PCB-1232 (Aroclor 1232)	<34.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.2	U
12672-29-6	PCB-1248 (Aroclor 1248)	428	
11097-69-1	PCB-1254 (Aroclor 1254)	368	
11096-82-5	PCB-1260 (Aroclor 1260)	375	
1336-36-3	PCB, Total	1170	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318034.D
Lab Smp Id: 40157822019 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 22:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822019 x3,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.002	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.410	22923	19342	0.844	0.03		1 Aroclor 1221	
2.484	3395234	3252554	0.958	5.87	$	2 Tetrachloro-m-xylene	
2.786	11450	11593	1.013	0.01		1 Aroclor 1221	
2.851	19456	14362	0.738	0.03		1 Aroclor 1221	
2.974	21457	16780	0.782	0.03			
3.017	10615	10336	0.974	0.01			
3.053	31952	31712	0.992	0.05			
3.318	47082	44212	0.939	0.08			
3.343	80995	73776	0.911	0.14			
3.433	63106	55163	0.874	0.10			
3.519	110270	103448	0.938	0.19			
3.644	16518	11890	0.720	0.02			
3.731	160584	113282	0.705	0.27			
3.827	510085	289861	0.568	0.88			
3.938	142984	115790	0.810	0.24			
3.993	121140	110132	0.909	0.20			
4.057	67035	53899	0.804	0.11			
4.136	23679	17418	0.736	0.04			
4.214	1112921	1030456	0.926	1.92			
4.261	1277618	1205032	0.943	2.21		6 Aroclor 1248	BA
4.292	1392106	1148755	0.825	2.41			
4.349	23140	16221	0.701	0.04			
4.417	393908	373247	0.948	0.68			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	312963	291193	0.930	0.54	
4.545	841620	764861	0.909	1.45	6 Aroclor 1248
4.588	109167	102108	0.935	0.18	
4.616	102238	88305	0.864	0.17	
4.681	127048	114782	0.903	0.21	
4.736	173329	148816	0.859	0.30	
4.767	197159	184441	0.935	0.34	
4.813	503803	476399	0.946	0.87	6 Aroclor 1248
4.847	335375	314830	0.939	0.58	
4.894	1725538	1057341	0.613	2.98	6 Aroclor 1248
4.957	564371	498450	0.883	0.97	
5.037	314155	265154	0.844	0.54	6 Aroclor 1248
5.101	1119159	981748	0.877	1.93	
5.161	1742496	1474387	0.846	3.01	7 Aroclor 1254
5.212	1355154	1168275	0.862	2.34	
5.284	191863	180900	0.943	0.33	
5.310	437004	369793	0.846	0.75	
5.364	446191	399799	0.896	0.77	
5.407	929401	869812	0.936	1.60	7 Aroclor 1254
5.451	2079386	1872976	0.901	3.60	
5.477	188283	204525	1.086	0.32	
5.509	1847321	1618099	0.876	3.19	7 Aroclor 1254
5.577	192112	172533	0.898	0.33	
5.605	176899	158797	0.898	0.30	
5.674	856642	799079	0.933	1.48	
5.709	466020	356645	0.765	0.80	
5.742	496170	389033	0.784	0.85	
5.788	2805423	2132796	0.760	4.85	
5.884	313479	202996	0.648	0.54	
5.930	282295	237285	0.841	0.48	
5.994	914259	839223	0.918	1.58	
6.027	942419	836219	0.887	1.63	7 Aroclor 1254
6.055	3083756	2618031	0.849	5.33	
6.168	735876	507174	0.689	1.27	
6.227	182874	211241	1.155	0.31	
6.243	352120	261902	0.744	0.60	
6.300	3616003	2986041	0.826	6.26	8 Aroclor 1260
6.332	380870	341151	0.896	0.65	
6.372	134336	111624	0.831	0.23	
6.432	456237	377989	0.828	0.78	
6.486	41117	53147	1.293	0.07	
6.509	1649169	1445956	0.877	2.85	
6.536	586825	571073	0.973	1.01	
6.560	608789	539748	0.887	1.05	
6.604	113925	96129	0.844	0.19	
6.660	112908	104716	0.927	0.19	
6.717	511053	448086	0.877	0.88	
6.758	457444	399933	0.874	0.79	
6.801	522495	467772	0.895	0.90	
6.840	273991	218666	0.798	0.47	
6.911	76184	76893	1.009	0.13	
6.943	901624	842083	0.934	1.56	
7.005	2063324	1789821	0.867	3.57	8 Aroclor 1260
7.036	131515	152172	1.157	0.22	
7.071	33885	37573	1.109	0.05	
7.121	41013	32514	0.793	0.07	
7.252	836353	771417	0.922	1.44	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.281	238118	193928	0.814	0.41	
7.389	730605	624897	0.855	1.26	
7.442	777134	709686	0.913	1.34	8 Aroclor 1260
7.550	35148	28720	0.817	0.06	
7.691	187150	167235	0.894	0.32	
7.727	165940	146592	0.883	0.28	
7.764	33542	29440	0.878	0.05	
7.811	285860	204660	0.716	0.49	
7.863	17950	17278	0.963	0.03	
7.901	512287	439237	0.857	0.88	8 Aroclor 1260
7.959	70812	42900	0.606	0.12	
8.049	172992	151410	0.875	0.29	
8.275	458388	407337	0.889	0.79	
8.379	15512	10642	0.686	0.02	
8.571	3699597	3086968	0.834	6.95	$ 12 Decachlorobiphenyl
8.706	18496	25776	1.394	0.03	
8.724	113388	88208	0.778	0.19	
8.939	9292	7130	0.767	0.01	
9.056	44375	34914	0.787	0.07	
9.169	57600	47991	0.833	0.09	
9.462	10461	8036	0.768	0.01	
9.737	33491	26720	0.798	0.05	
9.962	16472	10652	0.647	0.02	
	57753299	49664070		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318034.D
Lab Smp Id: 40157822019 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 22:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822019 x3,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.002	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

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

2.484	2.484	0.000	3395234	0.02754	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	1277618	0.54530	820	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	841620	0.20279	300	0.00- 20.00	65.87	BA
4.812	4.812	0.000	503803	0.24817	370	0.00- 20.00	39.43	BA
4.894	4.879	0.015	1725538	0.34254	510	0.00- 20.00	135.06	BA
5.037	5.038	-0.001	314154	0.08754	130	0.00- 20.00	24.59	BA
			Average of Peak Concentrations =		430			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1742496	0.33284	500	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	929401	0.21609	320	0.00- 20.00	53.34	BA
5.509	5.510	-0.001	1847320	0.23787	360	0.00- 20.00	106.02	BA
6.026	6.027	-0.001	942419	0.19353	290	0.00- 20.00	54.08	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		370			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	3616003	0.40802	610	0.00- 20.00	100.00(M)	BA
7.005	7.006	-0.001	2063324	0.20604	310	0.00- 20.00	57.06	BA
7.252	7.251	0.001	836352	0.17498	260	0.00- 20.00	23.13	BA
7.442	7.443	-0.001	777134	0.26659	400	0.00- 20.00	21.49	BA
7.901	7.901	0.000	512286	0.19414	290	0.00- 20.00	14.17	BA
			Average of Peak Concentrations =		370			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	3699597	0.03377	51			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318034.D

Date : 03-APR-2018 22:56

Client ID: AT1-170616-01-SMB-0

Instrument: 40GCSJ.i

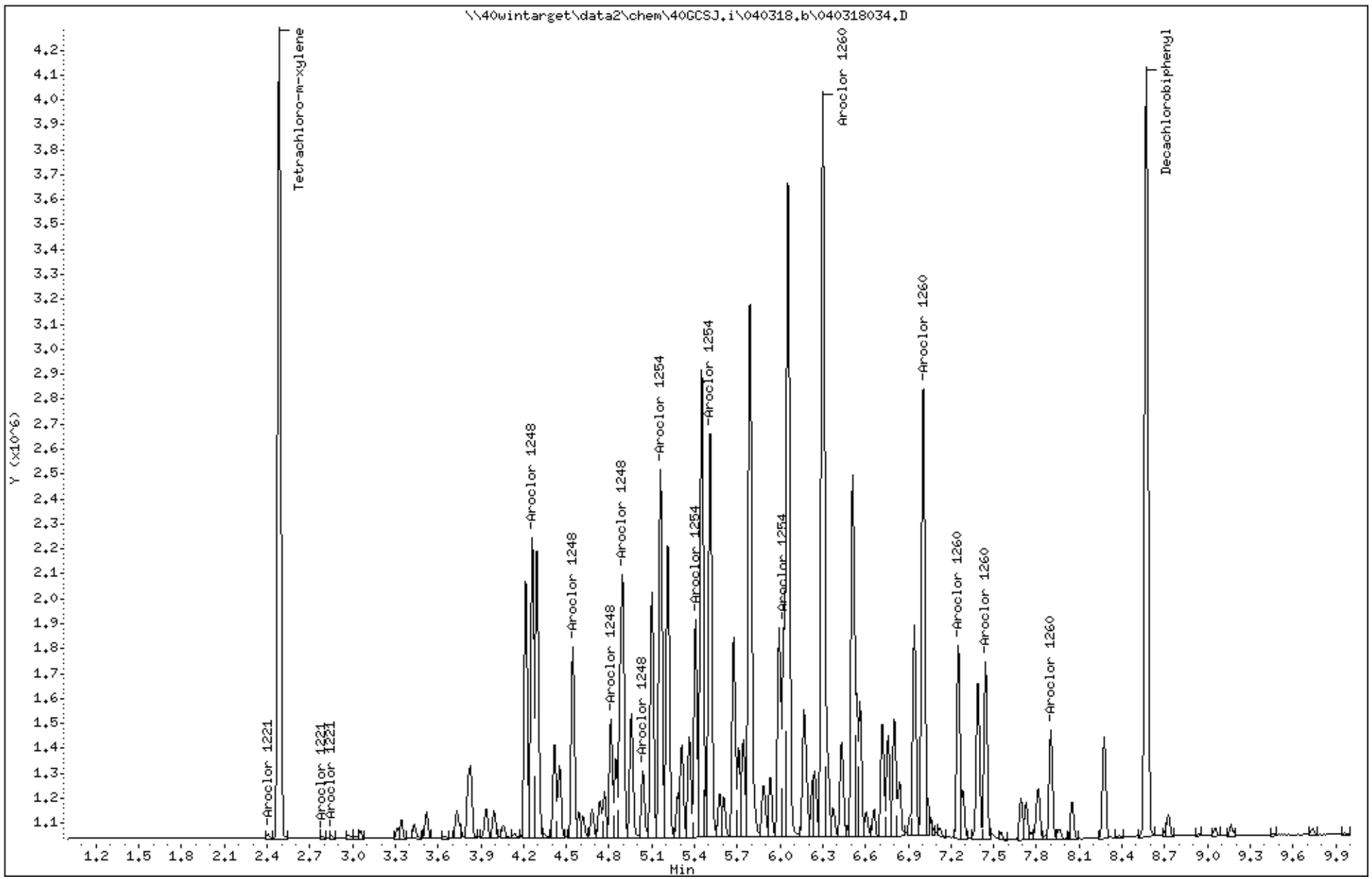
Sample Info: 40157822019 x3,

Volume Injected (uL): 1.0

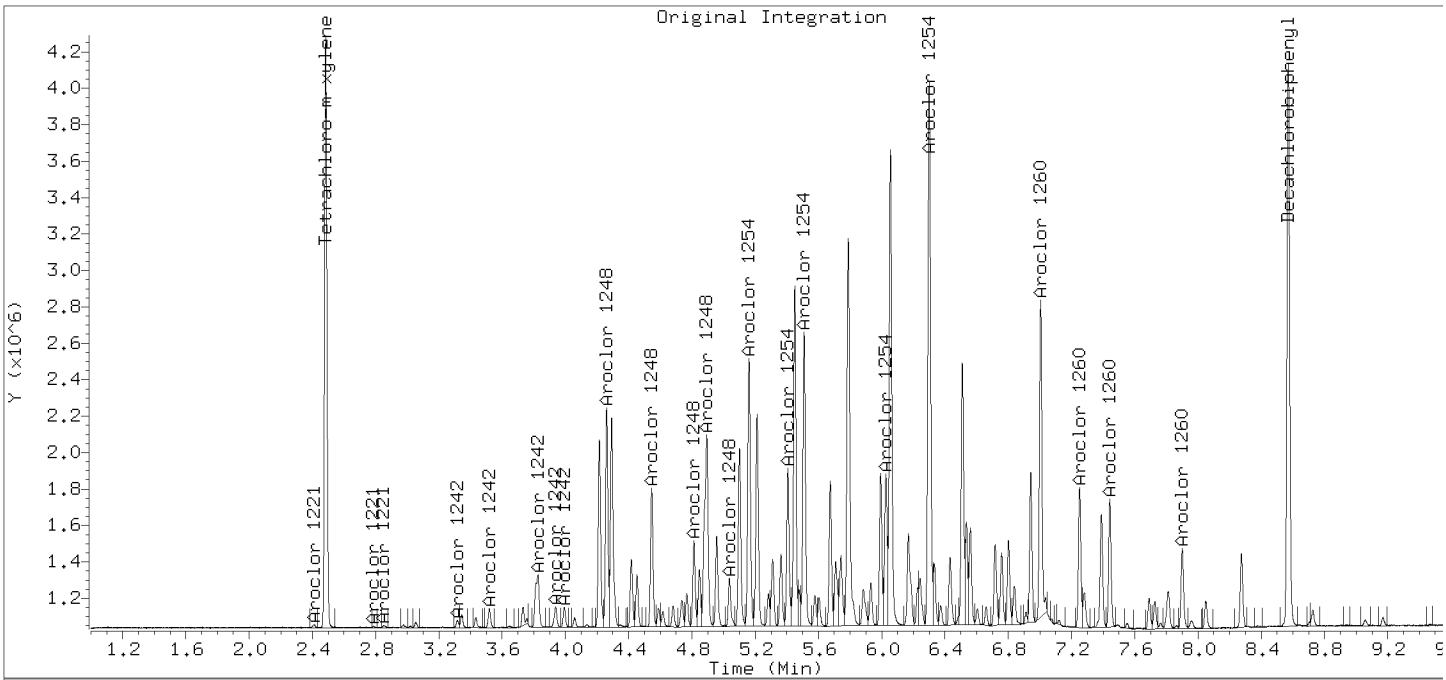
Operator: BLM

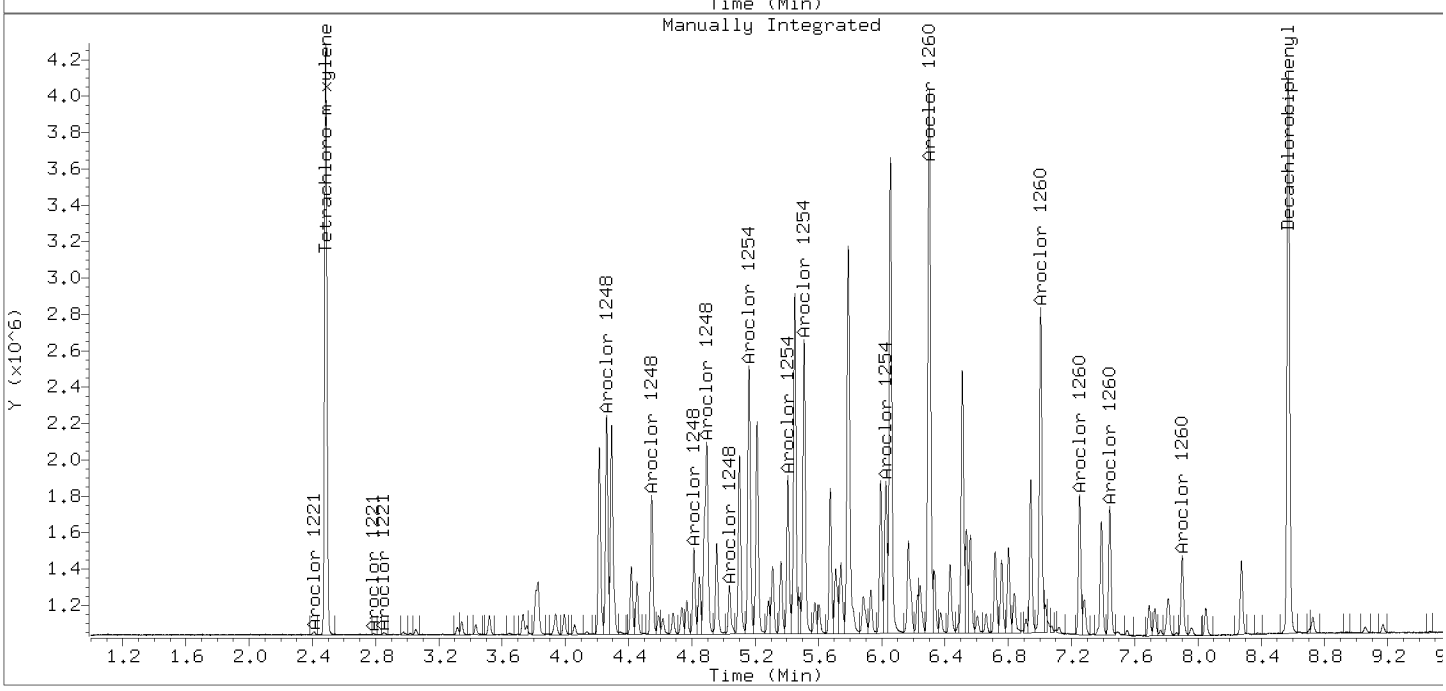
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318034.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 22:56 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822019





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	47082	0	
Aroclor 1016	47082	0	
Aroclor 1016	47082	0	
Aroclor 1016	47082	0	
Aroclor 1016	47082	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	19456	0	
Aroclor 1232	19456	0	
Aroclor 1232	19456	0	
Aroclor 1232	19456	0	

Aroclor 1232	19456	0	
Aroclor 1242	47082	0	
Aroclor 1242	47082	0	
Aroclor 1242	47082	0	
Aroclor 1242	47082	0	
Aroclor 1242	47082	0	
Aroclor 1248	1272492	1277618	BA
Aroclor 1248	1272492	1277618	BA
Aroclor 1248	1272492	1277618	BA
Aroclor 1248	1272492	1277618	BA
Aroclor 1248	1272492	1277618	BA
Aroclor 1254	1729861	1742496	BA
Aroclor 1254	1729861	1742496	BA
Aroclor 1254	1729861	1742496	BA
Aroclor 1254	1729861	1742496	BA
Aroclor 1254	1729861	1742496	BA
Aroclor 1260	3597304	3616003	BA
Aroclor 1260	3597304	3616003	BA
Aroclor 1260	3597304	3616003	BA
Aroclor 1260	3597304	3616003	BA
Aroclor 1260	3597304	3616003	BA
Tetrachloro-m-xylene	3395234	3395234	
Decachlorobiphenyl	3699597	3699597	

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SAMPLE NO.

AT1-170616-01-SMB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/03/2017 10:20
Matrix: Tissue SDG No.: 40157822
Date Extracted: 04/02/2018 07:11
Lab Sample ID: 40157822020
Date Analyzed: 04/03/2018 23:12
Lab File ID: 040318.B\040318035.D
Initial wt/vol: 10.0108 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)	1450	
11097-69-1	PCB-1254 (Aroclor 1254)	1200	
11096-82-5	PCB-1260 (Aroclor 1260)	640	
1336-36-3	PCB, Total	3290	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318035.D
Lab Smp Id: 40157822020 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 23:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822020 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35
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	10.011	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.170	9363	7405	0.791	0.02		
2.411	39128	30451	0.778	0.08		
2.484	1183531	1147587	0.970	2.71	$ 2 Tetrachloro-m-xylene	
2.853	27868	24051	0.863	0.06		
2.976	18433	14962	0.812	0.04		
3.018	10480	10944	1.044	0.02		
3.056	64592	56988	0.882	0.14		
3.317	119407	120171	1.006	0.27		
3.344	178987	168819	0.943	0.41		
3.434	119119	116743	0.980	0.27		
3.518	215089	189762	0.882	0.49		
3.643	18915	15666	0.828	0.04		
3.731	212256	207870	0.979	0.48		
3.755	106316	101767	0.957	0.24		
3.813	770314	451076	0.586	1.76		
3.938	236690	199210	0.842	0.54		
3.993	166389	153398	0.922	0.38		
4.057	96282	81458	0.846	0.22		
4.136	37694	33395	0.886	0.08		
4.214	1237757	1134140	0.916	2.84		
4.261	1446978	1370760	0.947	3.32	6 Aroclor 1248	CO
4.292	1511801	1252581	0.829	3.46		
4.417	452018	432122	0.956	1.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.453	349560	318858	0.912	0.80	
4.545	936362	863237	0.922	2.14	6 Aroclor 1248
4.590	105280	99833	0.948	0.24	
4.617	140015	125282	0.895	0.32	
4.680	113004	102682	0.909	0.25	
4.737	151848	124808	0.822	0.34	
4.768	170517	162406	0.952	0.39	
4.812	429284	411354	0.958	0.98	6 Aroclor 1248
4.848	364134	332232	0.912	0.83	
4.894	1608562	1027350	0.639	3.69	6 Aroclor 1248
4.957	514275	464080	0.902	1.18	
5.036	268623	240663	0.896	0.61	6 Aroclor 1248
5.057	22333	36501	1.634	0.05	
5.100	1026638	873324	0.851	2.35	
5.161	1420574	1225098	0.862	3.25	7 Aroclor 1254
5.212	1146561	986344	0.860	2.63	
5.284	161679	159845	0.989	0.37	
5.310	336517	281493	0.836	0.77	
5.363	374614	348462	0.930	0.85	
5.407	727015	659907	0.908	1.66	7 Aroclor 1254
5.450	1446284	1287290	0.890	3.31	
5.477	197932	196772	0.994	0.45	
5.510	1603754	1360093	0.848	3.68	7 Aroclor 1254
5.577	141555	132202	0.934	0.32	
5.606	154682	128398	0.830	0.35	
5.675	655952	614067	0.936	1.50	
5.710	400444	311747	0.779	0.91	
5.743	378736	279099	0.737	0.86	
5.788	2185954	1593965	0.729	5.01	
5.883	257882	169537	0.657	0.59	
5.932	201099	169542	0.843	0.46	
5.993	648388	595940	0.919	1.48	
6.028	738892	641878	0.869	1.69	7 Aroclor 1254
6.056	2205990	1843648	0.836	5.06	
6.168	545647	348988	0.640	1.25	
6.228	135961	151102	1.111	0.31	
6.242	241702	178453	0.738	0.55	
6.300	2617920	2154138	0.823	6.46	7 Aroclor 1254
6.333	268995	240722	0.895	0.61	
6.374	102194	81010	0.793	0.23	
6.432	297284	247002	0.831	0.68	
6.483	25412	35608	1.401	0.05	
6.510	1038035	961093	0.926	2.38	
6.536	426582	414674	0.972	0.97	
6.560	396742	334085	0.842	0.91	
6.604	75432	65914	0.874	0.17	
6.660	73582	69035	0.938	0.16	
6.718	349377	298514	0.854	0.80	
6.758	278351	242419	0.871	0.63	
6.803	364272	319111	0.876	0.83	
6.839	177674	133812	0.753	0.40	
6.913	40515	42188	1.041	0.09	
6.942	580942	525998	0.905	1.33	
7.005	1314857	1148681	0.874	3.01	8 Aroclor 1260
7.037	127286	96674	0.759	0.29	
7.073	27129	27248	1.004	0.06	
7.120	23175	19649	0.848	0.05	

Data File: ...wintarget\data2\chem\40GCSJ.i\040318.b\040318035.D Page 3
Report Date: 11-Apr-2018 12:07

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.252	565641	509300	0.900	1.29	8 Aroclor 1260
7.281	157707	131792	0.836	0.36	
7.389	402516	343459	0.853	0.92	
7.443	441448	390398	0.884	1.01	8 Aroclor 1260
7.491	21790	14794	0.679	0.05	
7.555	29165	21943	0.752	0.06	
7.691	118461	104037	0.878	0.27	
7.728	88069	78563	0.892	0.20	
7.764	20785	17517	0.843	0.04	
7.813	165976	118915	0.716	0.38	
7.858	11138	10163	0.912	0.02	
7.900	295046	255846	0.867	0.67	8 Aroclor 1260
7.959	44938	25677	0.571	0.10	
8.048	40878	29578	0.724	0.09	
8.274	245746	219843	0.895	0.56	
8.571	1404106	1215036	0.865	3.22	$ 12 Decachlorobiphenyl
8.704	12468	13413	1.076	0.02	
8.729	54663	42189	0.772	0.12	
9.057	15446	10449	0.676	0.03	
9.170	47311	35134	0.743	0.10	
	43576712	37213427		100.000	

Total unknown % area = 61

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318035.D
Lab Smp Id: 40157822020 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 23:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157822020 x10,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35
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	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

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

$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	1183531	0.00960	48			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1446978	0.61758	3100	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	936362	0.22561	1100	0.00- 20.00	64.71	CO
4.811	4.812	-0.001	429284	0.21146	1000	0.00- 20.00	29.67	CO
4.894	4.879	0.015	1608562	0.31932	1600	0.00- 20.00	111.17	CO
5.035	5.038	-0.003	268623	0.07486	370	0.00- 20.00	18.56	CO
Average of Peak Concentrations =					1400			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1420574	0.27135	1400	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	727014	0.16903	840	0.00- 20.00	51.18	BA
5.509	5.510	-0.001	1603753	0.20651	1000	0.00- 20.00	112.89	BA
6.028	6.027	0.001	738891	0.15173	760	0.00- 20.00	52.01	BA
6.300	6.299	0.001	2617919	0.40232	2000	0.00- 20.00	184.29	BA
Average of Peak Concentrations =					1200			
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	1314857	0.13130	660	0.00- 20.00	50.23	BA
7.251	7.251	0.000	565641	0.11834	590	0.00- 20.00	21.61	BA
7.442	7.443	-0.001	441448	0.15143	760	0.00- 20.00	16.86	BA
7.899	7.901	-0.002	295046	0.11181	560	0.00- 20.00	11.27	BA
Average of Peak Concentrations =					640			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	1404106	0.01282	64			

QC Flag Legend

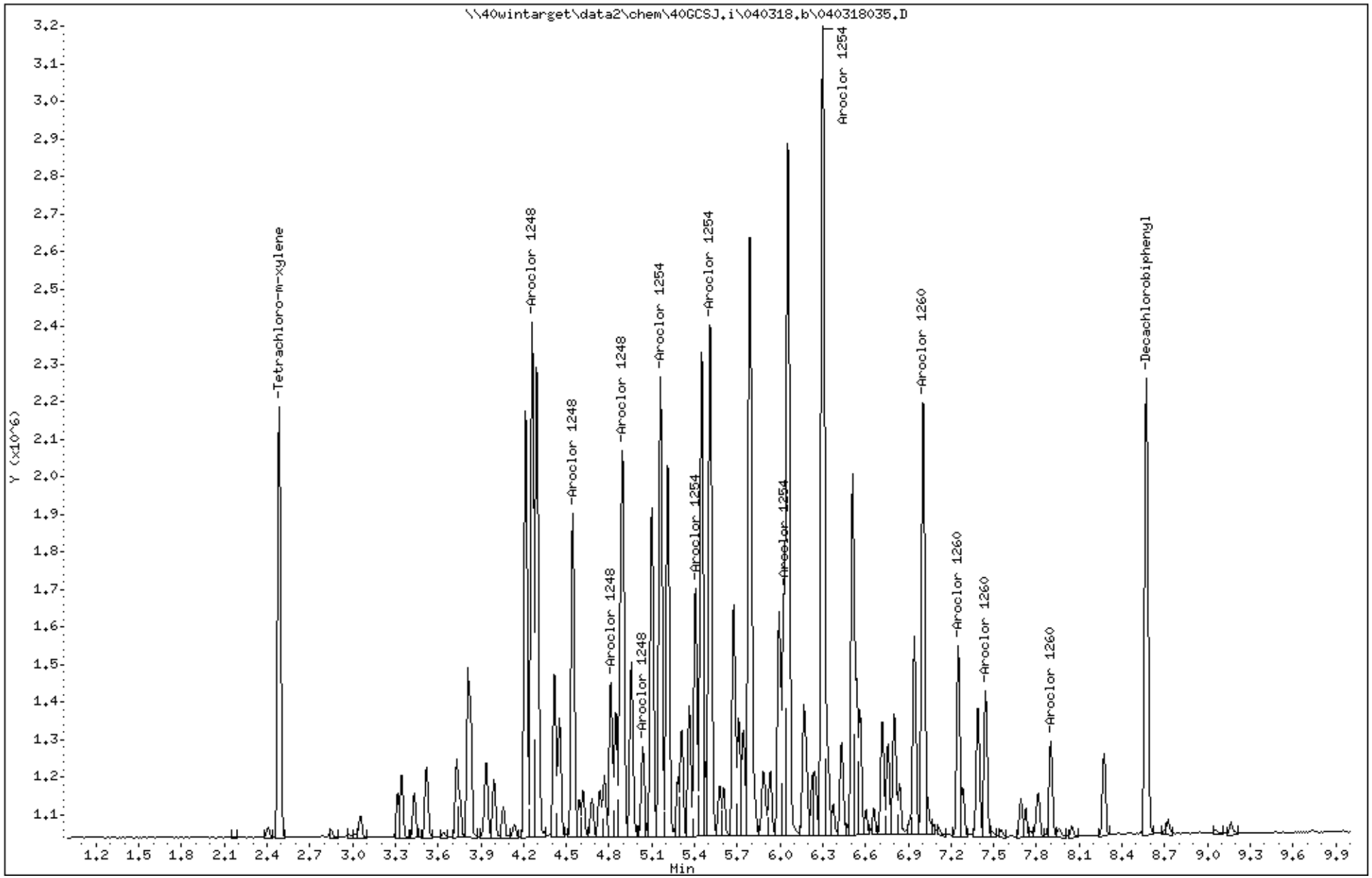
M - Compound response manually integrated.

Review Codes Legend

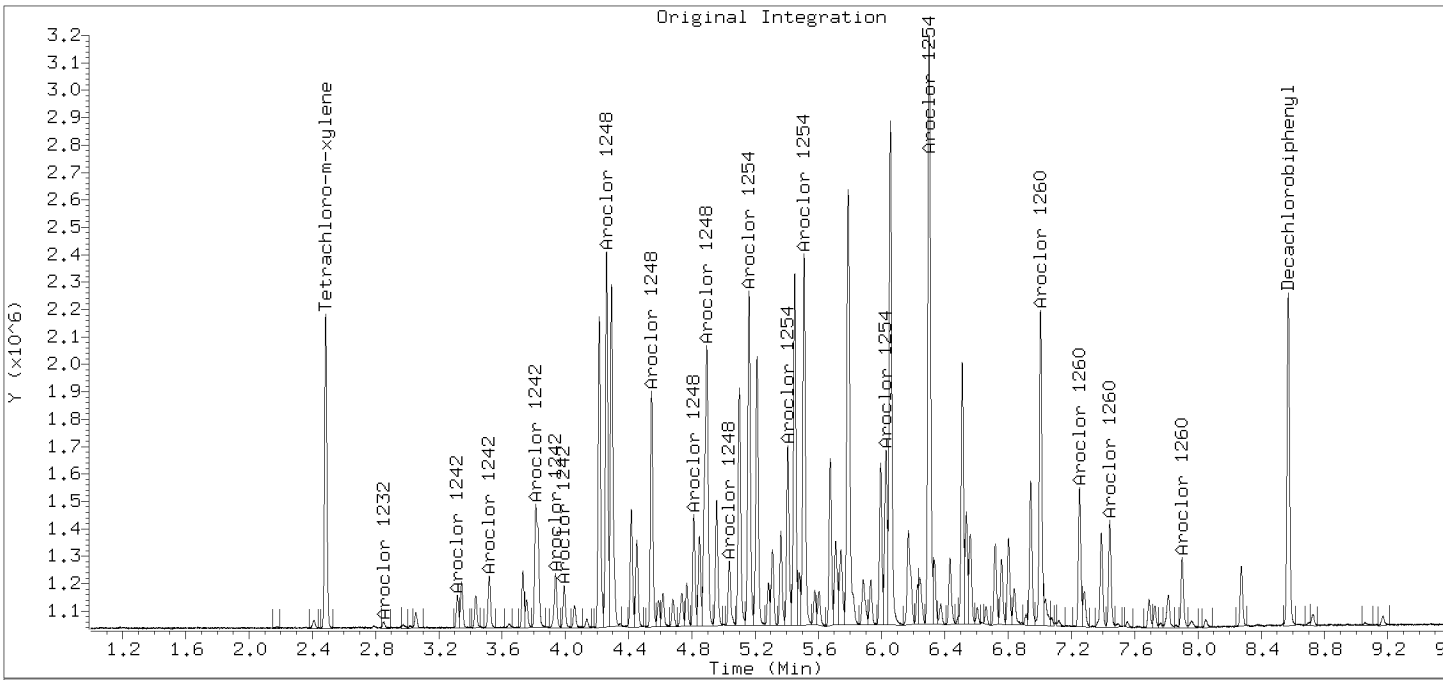
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

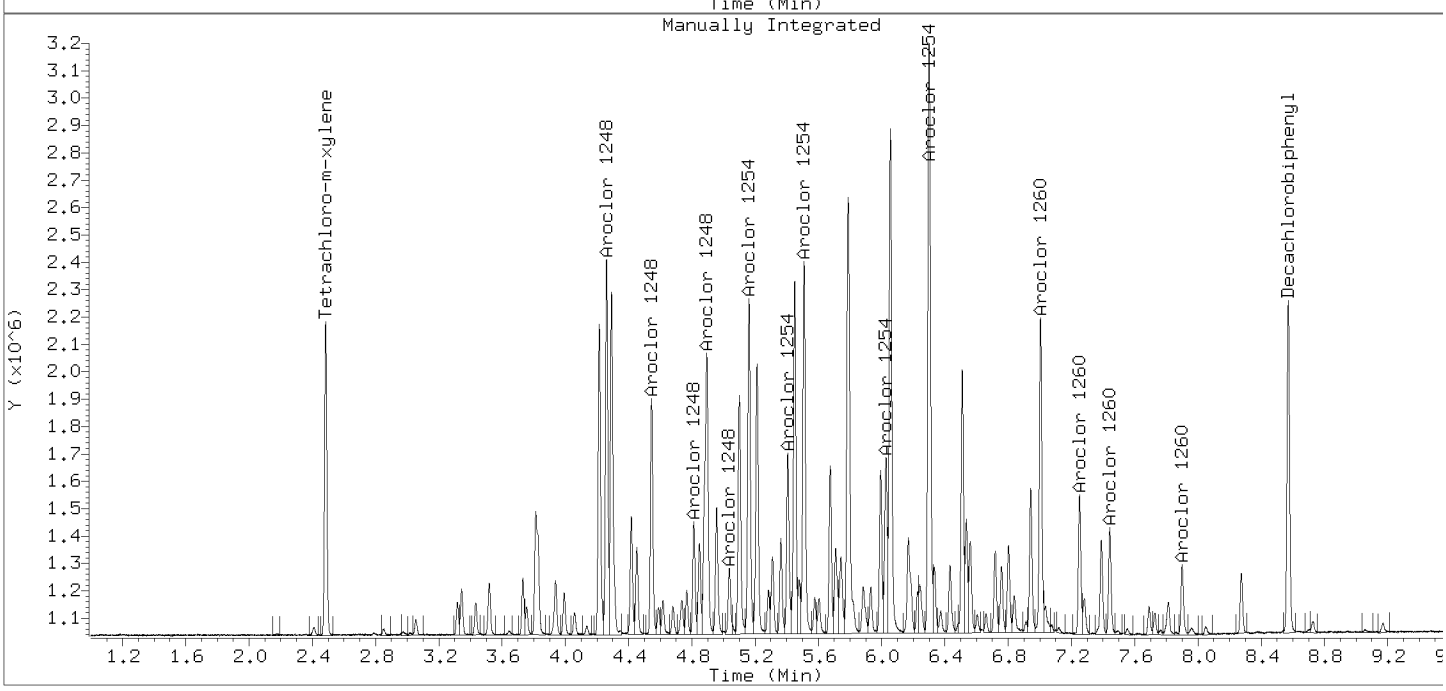
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318035.D
Date : 03-APR-2018 23:12
Client ID: AT1-170616-01-SMB-0
Sample Info: 40157822020 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318035.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 23:12 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157822020





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	119407	0	
Aroclor 1016	119407	0	
Aroclor 1016	119407	0	
Aroclor 1016	119407	0	
Aroclor 1016	119407	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	27867	0	
Aroclor 1232	27867	0	
Aroclor 1232	27867	0	
Aroclor 1232	27867	0	

Aroclor 1232	27867	0	
Aroclor 1242	119407	0	
Aroclor 1242	119407	0	
Aroclor 1242	119407	0	
Aroclor 1242	119407	0	
Aroclor 1242	119407	0	
Aroclor 1248	1437509	1446978	CO
Aroclor 1248	1437509	1446978	CO
Aroclor 1248	1437509	1446978	CO
Aroclor 1248	1437509	1446978	CO
Aroclor 1248	1437509	1446978	CO
Aroclor 1254	1402881	1420574	BA
Aroclor 1254	1402881	1420574	BA
Aroclor 1254	1402881	1420574	BA
Aroclor 1254	1402881	1420574	BA
Aroclor 1254	1402881	1420574	BA
Aroclor 1260	2596347	0	BA
Aroclor 1260	2596347	0	BA
Aroclor 1260	2596347	0	BA
Aroclor 1260	2596347	0	BA
Aroclor 1260	2596347	0	BA
Tetrachloro-m-xylene	1183531	1183531	
Decachlorobiphenyl	1404106	1404106	

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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.: 40157822

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.: 40157822

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.: 40157822

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.: 40157822

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.: 40157822

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.

05/11/2018 10:41

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.: 40157822

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.: 40157822

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

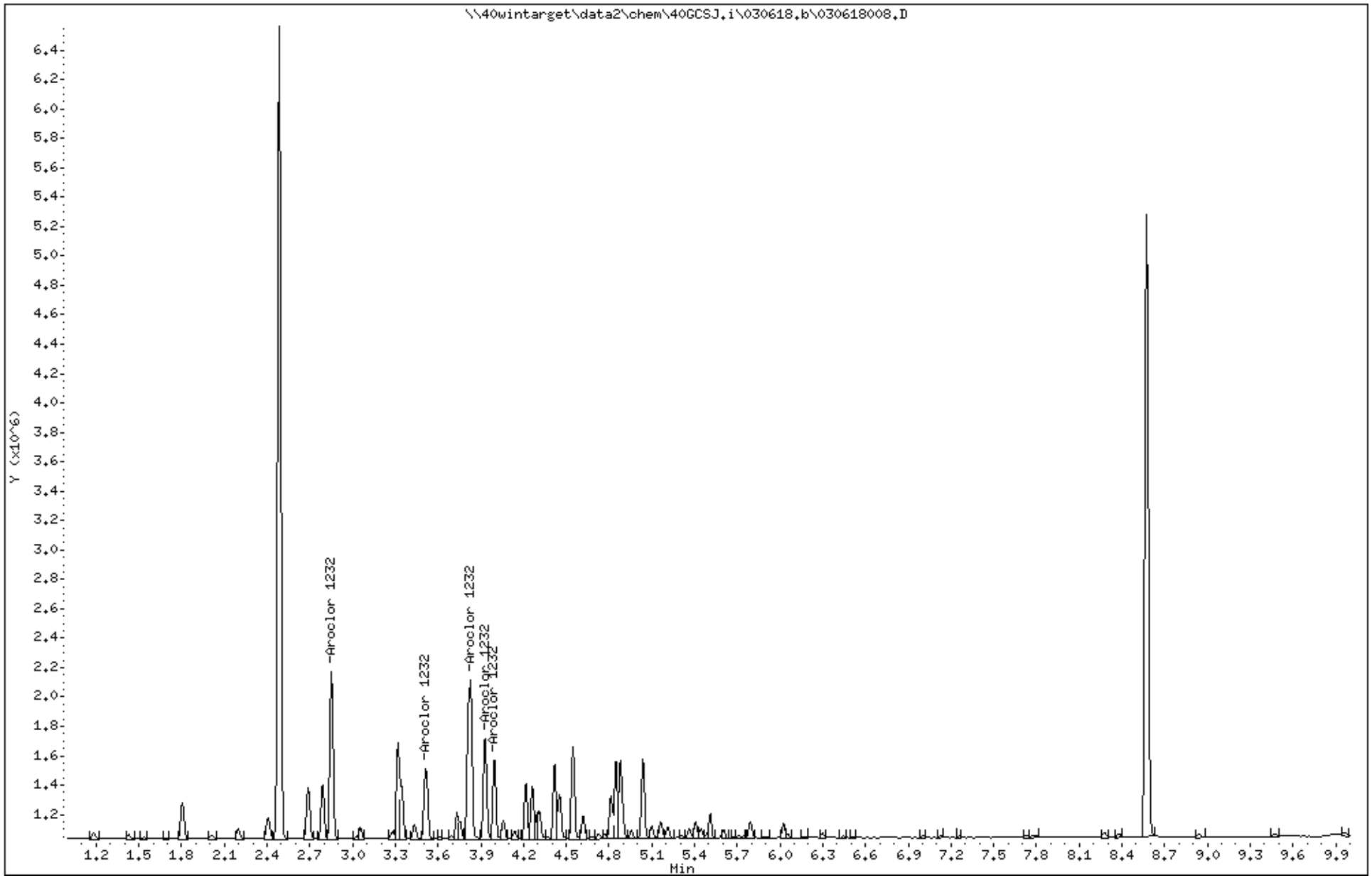
M - Compound response manually integrated.

Review Codes Legend

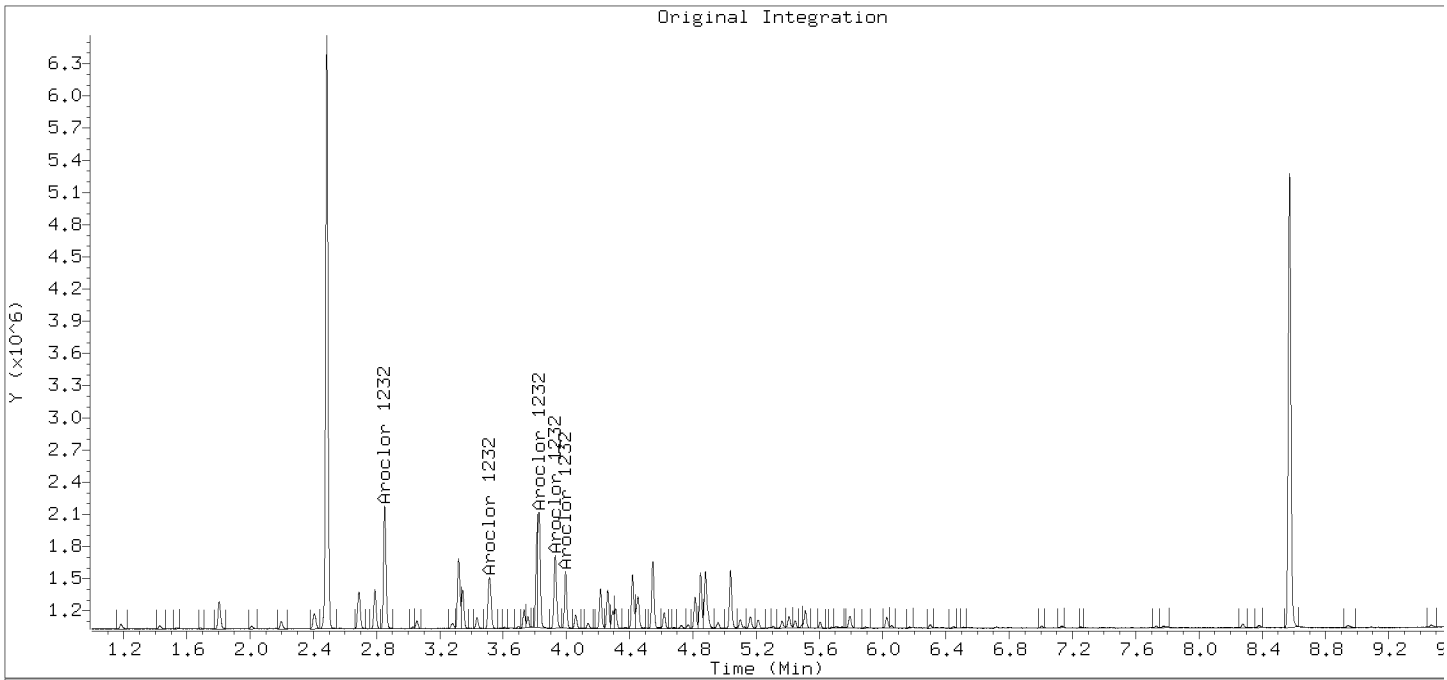
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

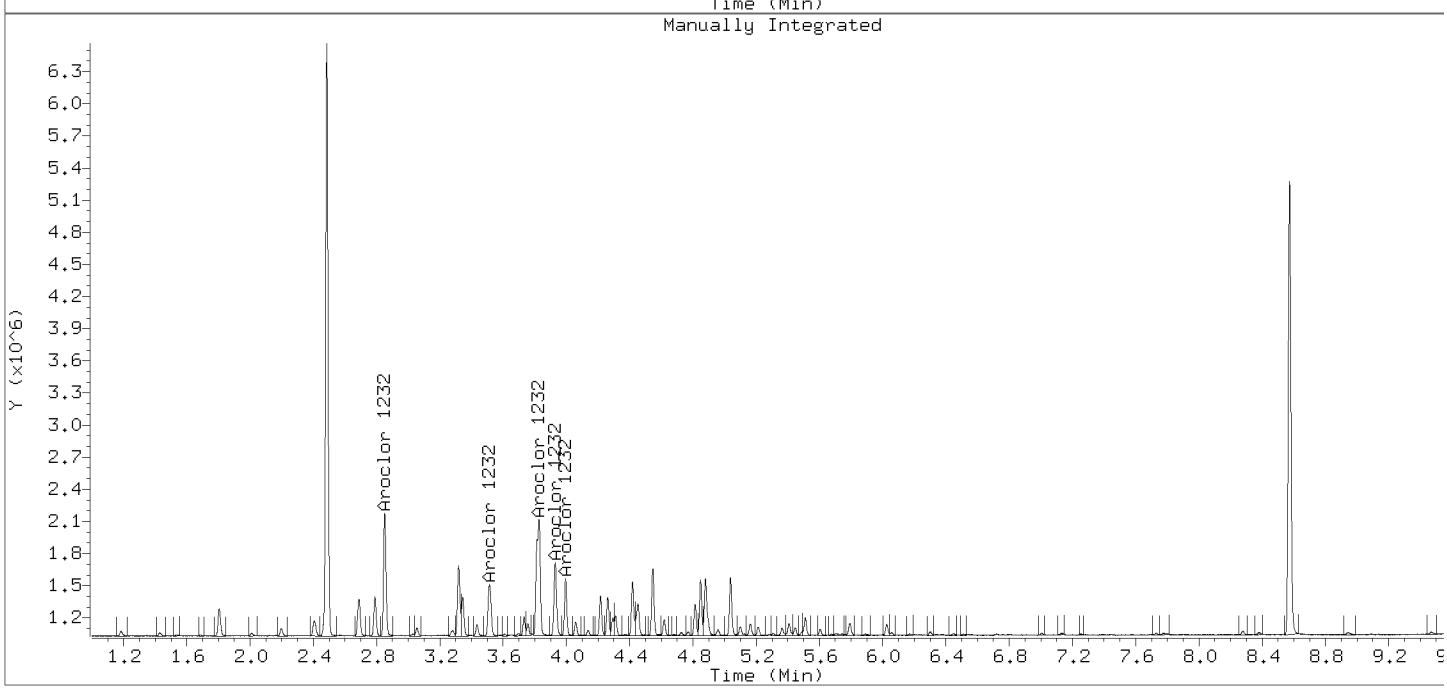
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Date : 06-MAR-2018 11:50
Client ID: 1232-CAL3S
Sample Info: 1232-CAL3S, 185539:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

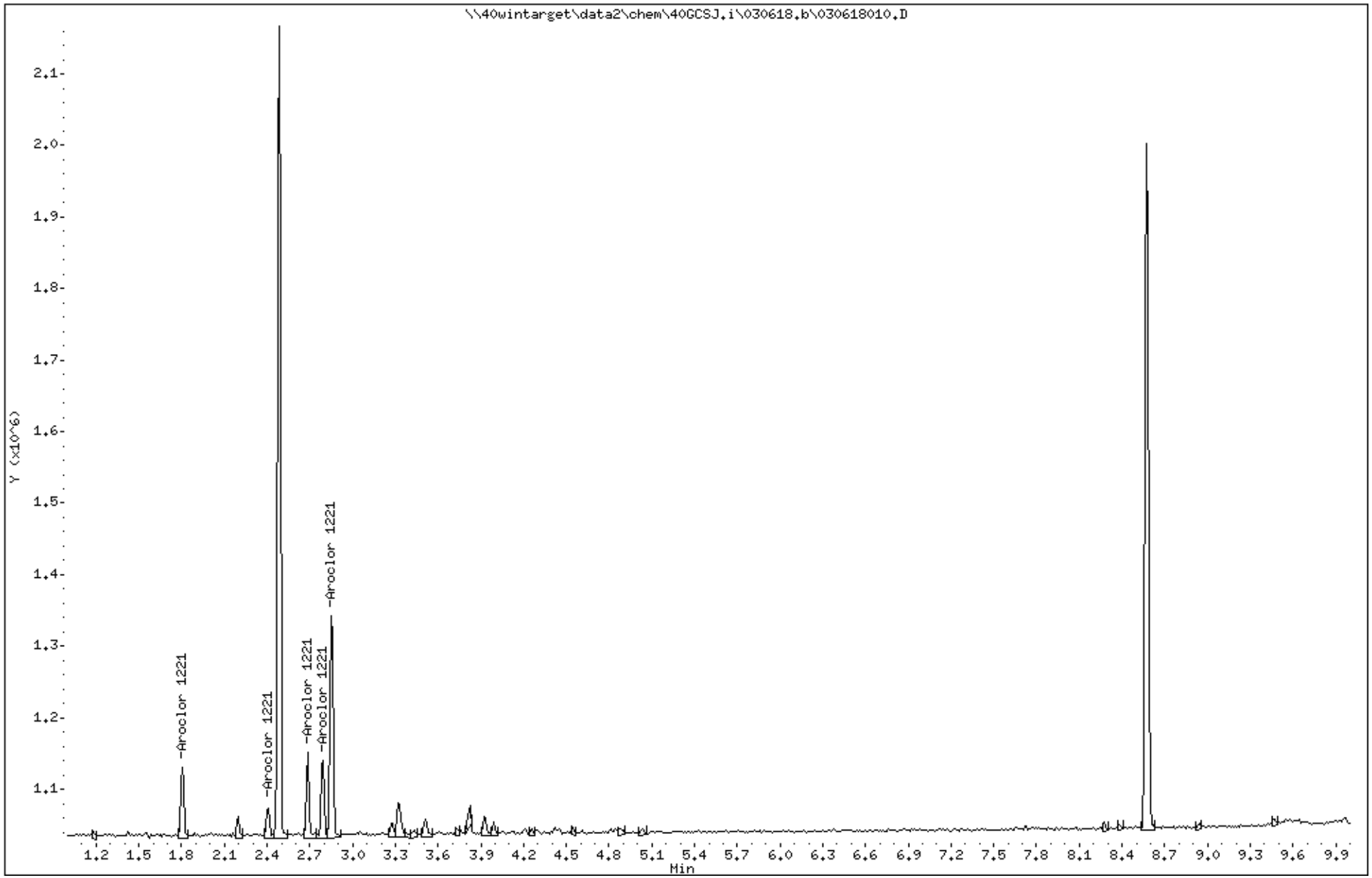
M - Compound response manually integrated.

Review Codes Legend

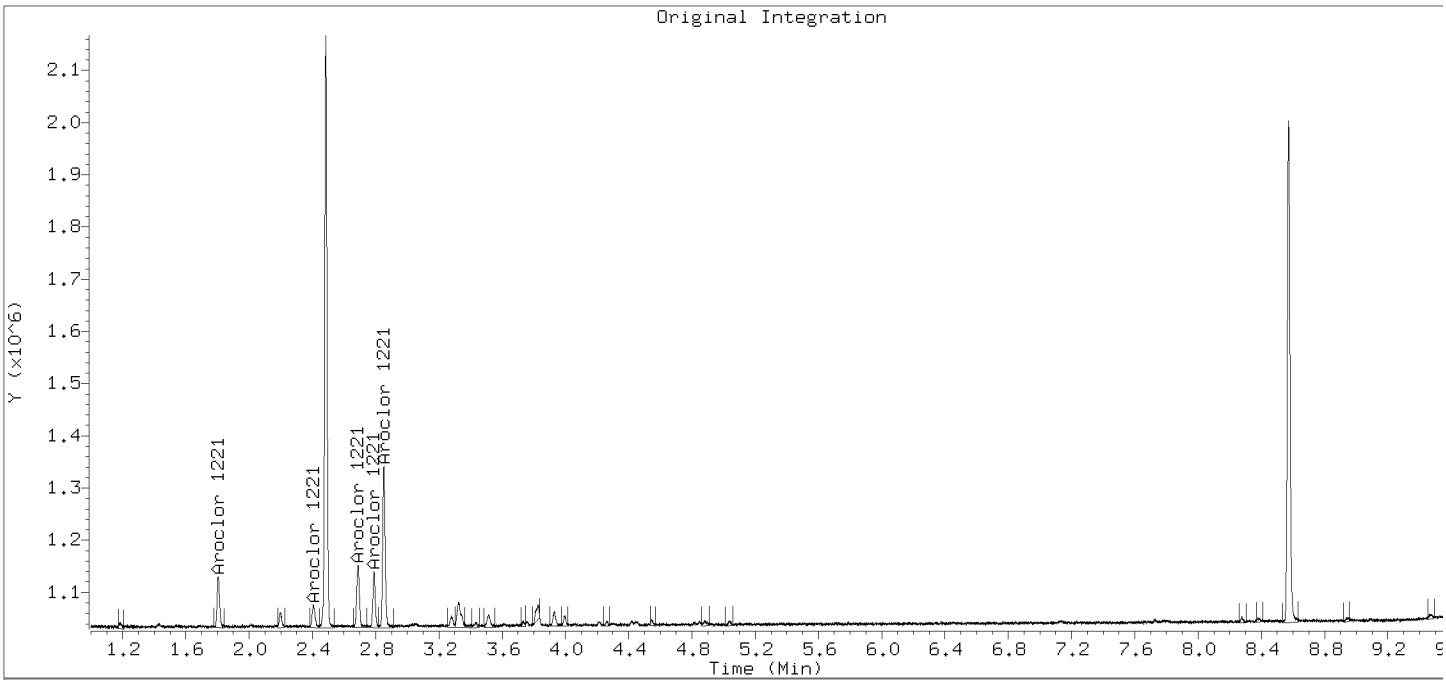
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

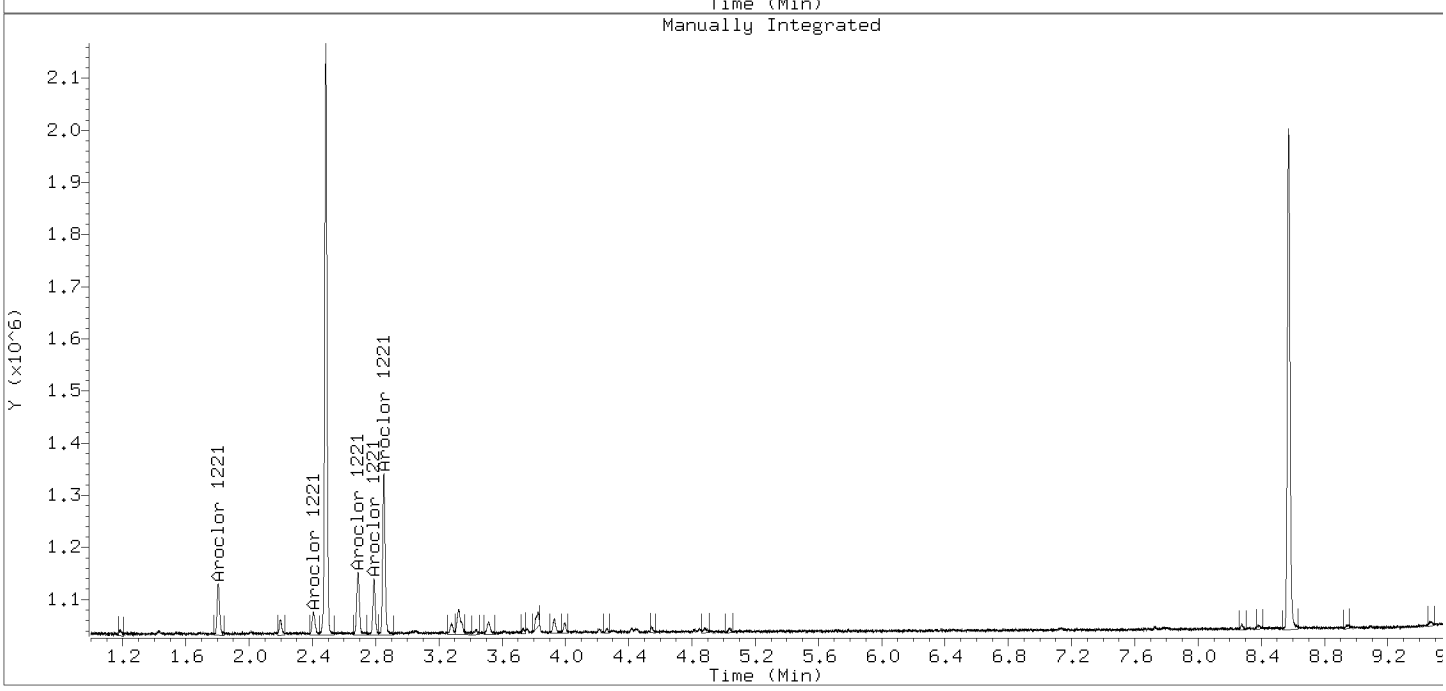
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

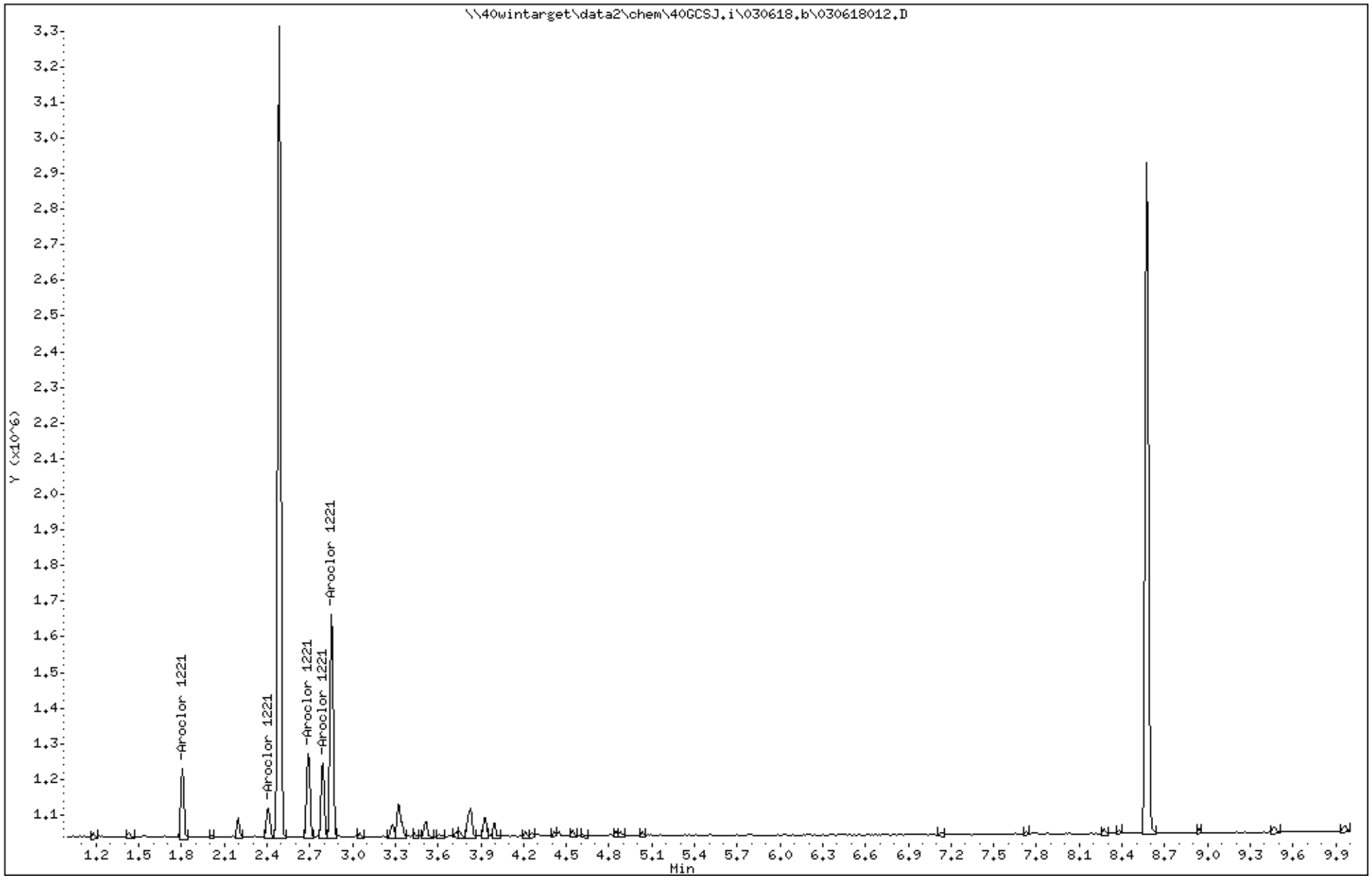
M - Compound response manually integrated.

Review Codes Legend

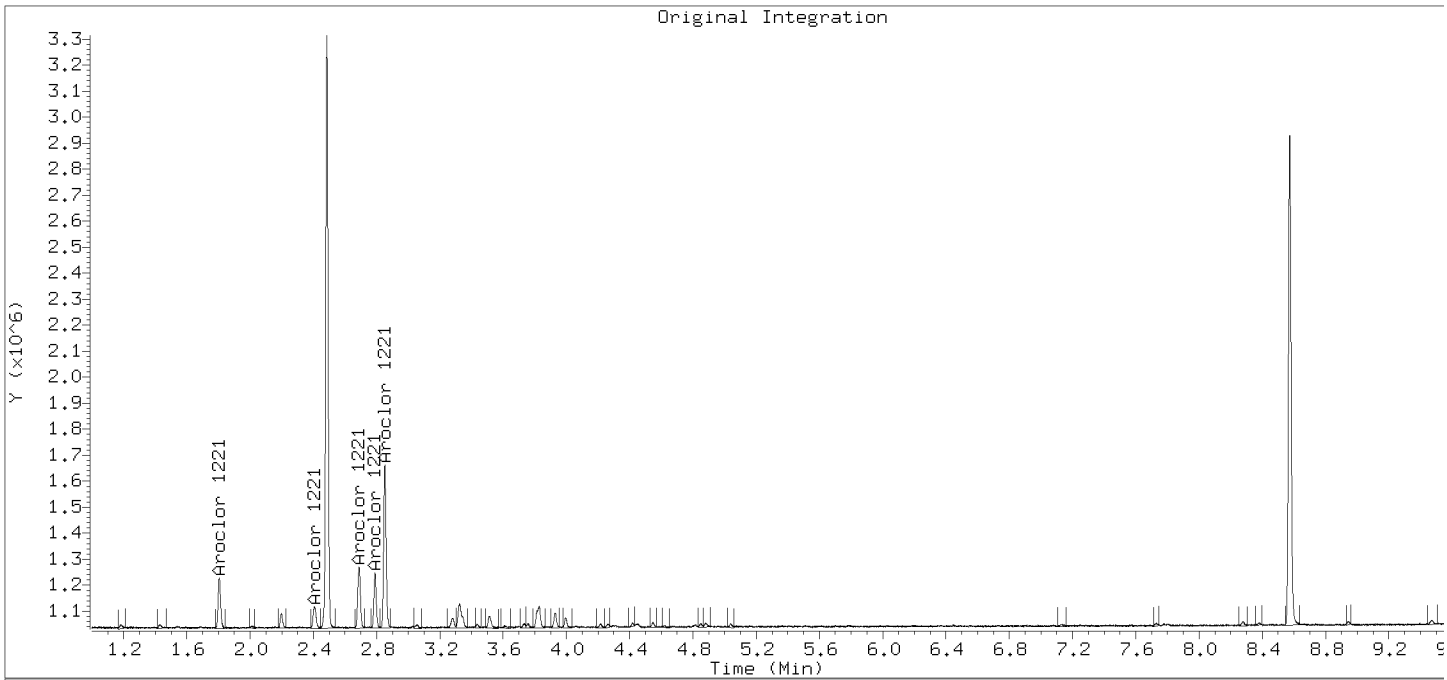
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

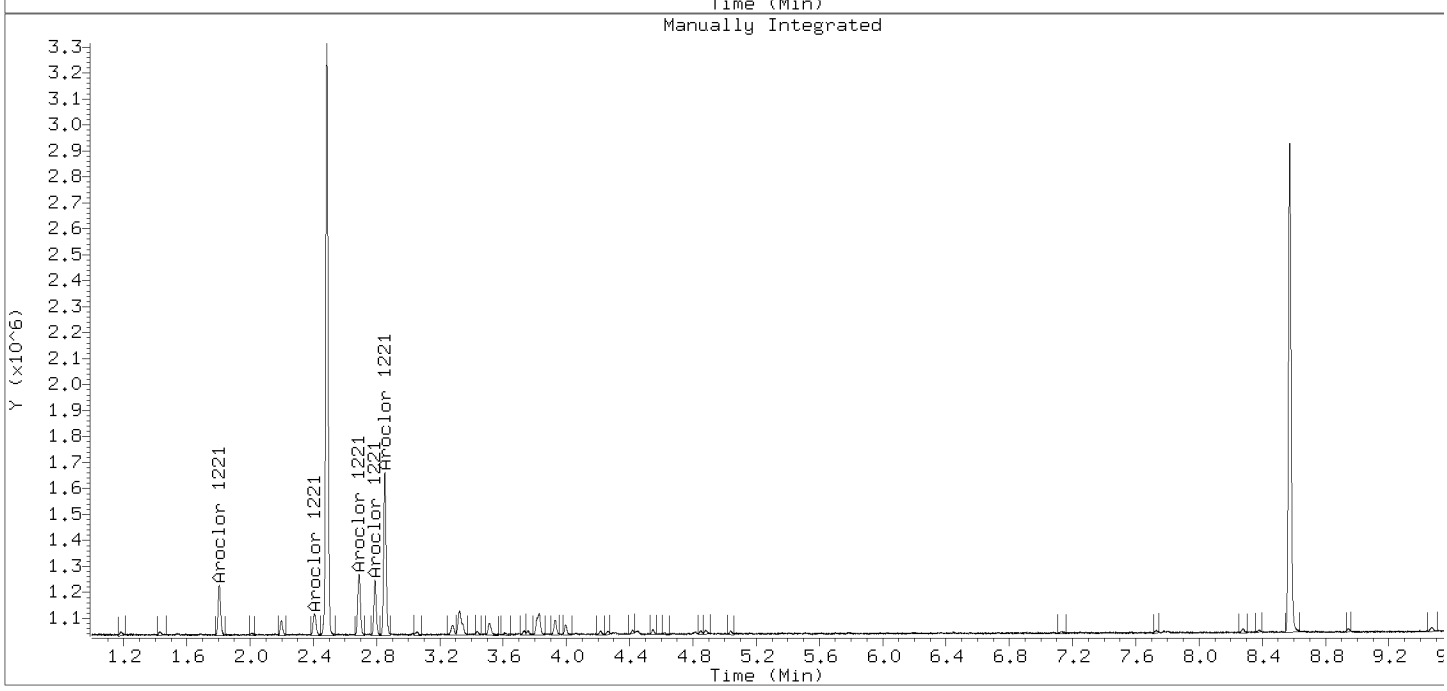
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Date : 06-MAR-2018 12:23
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

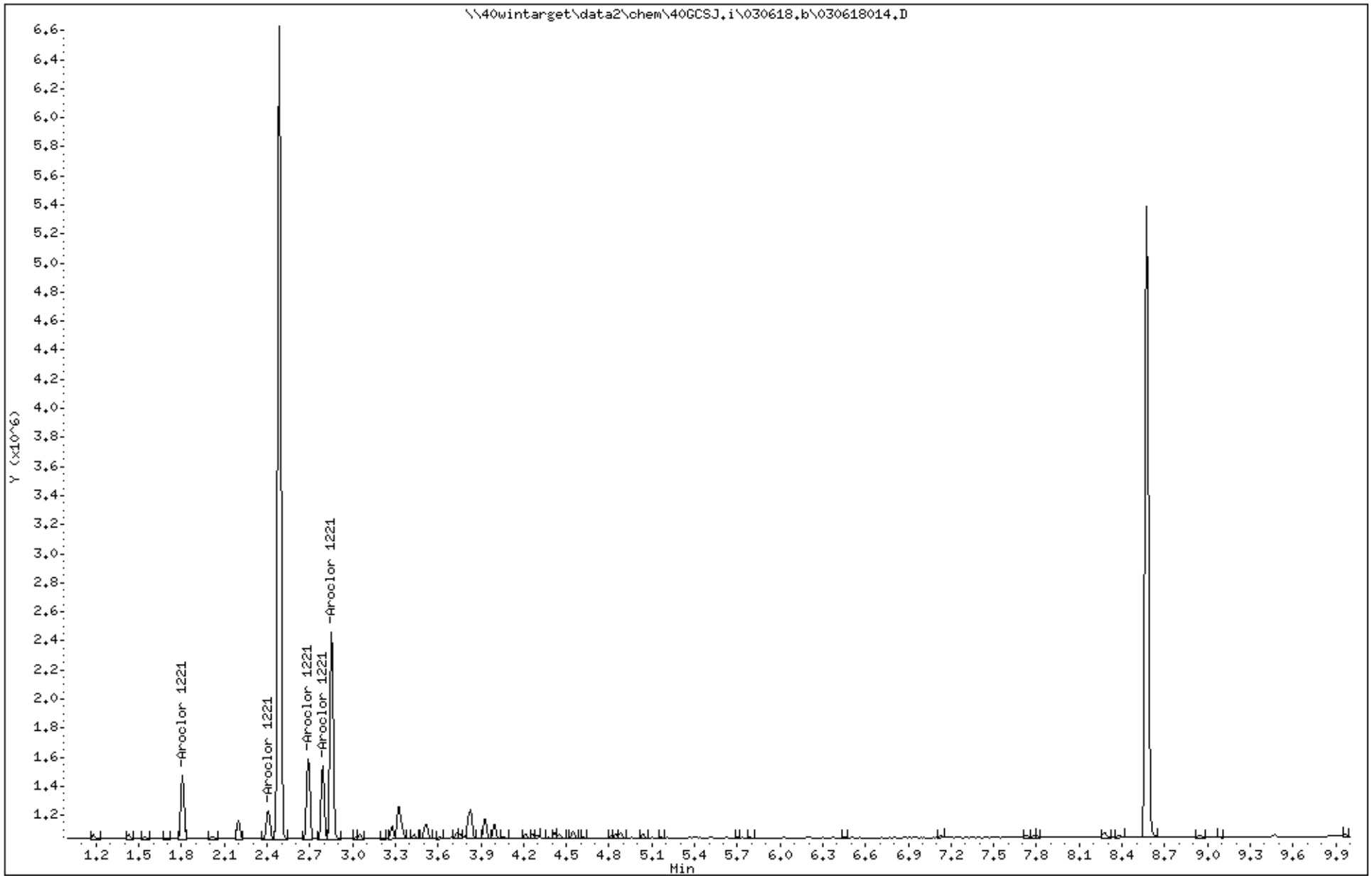
M - Compound response manually integrated.

Review Codes Legend

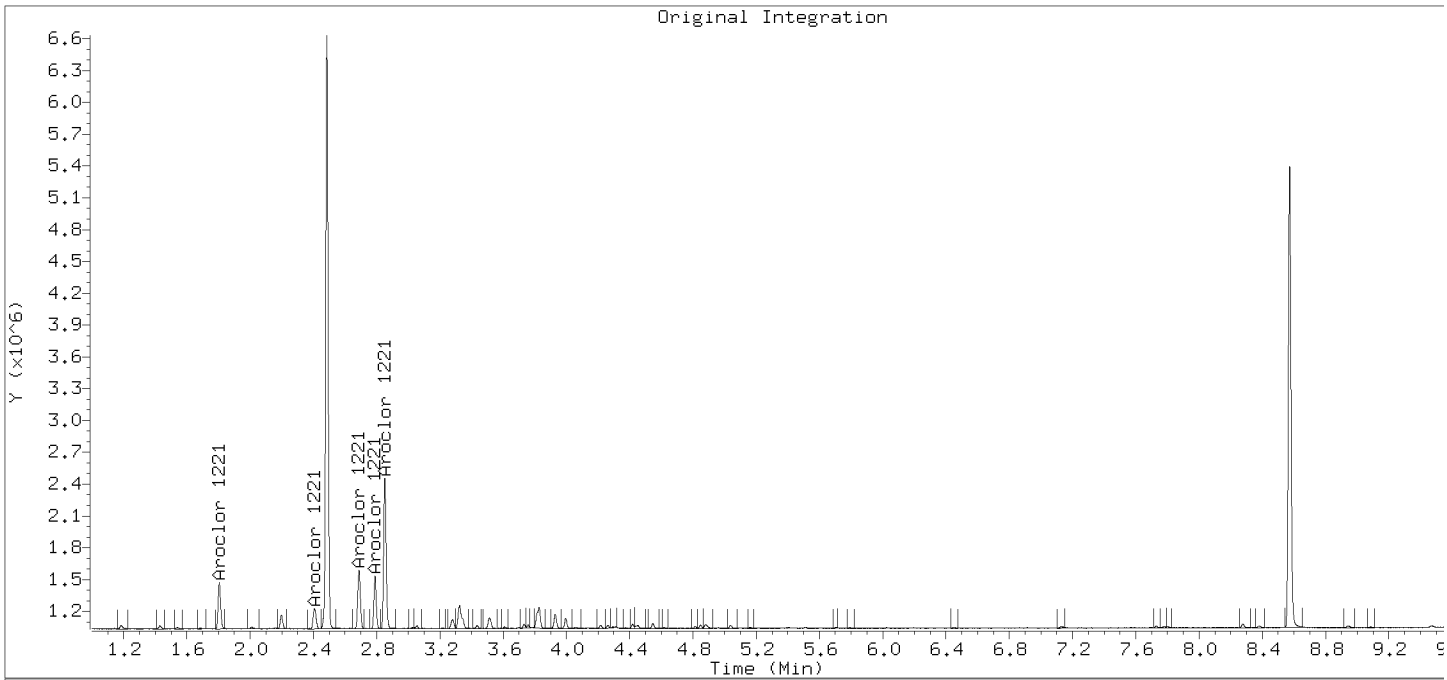
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

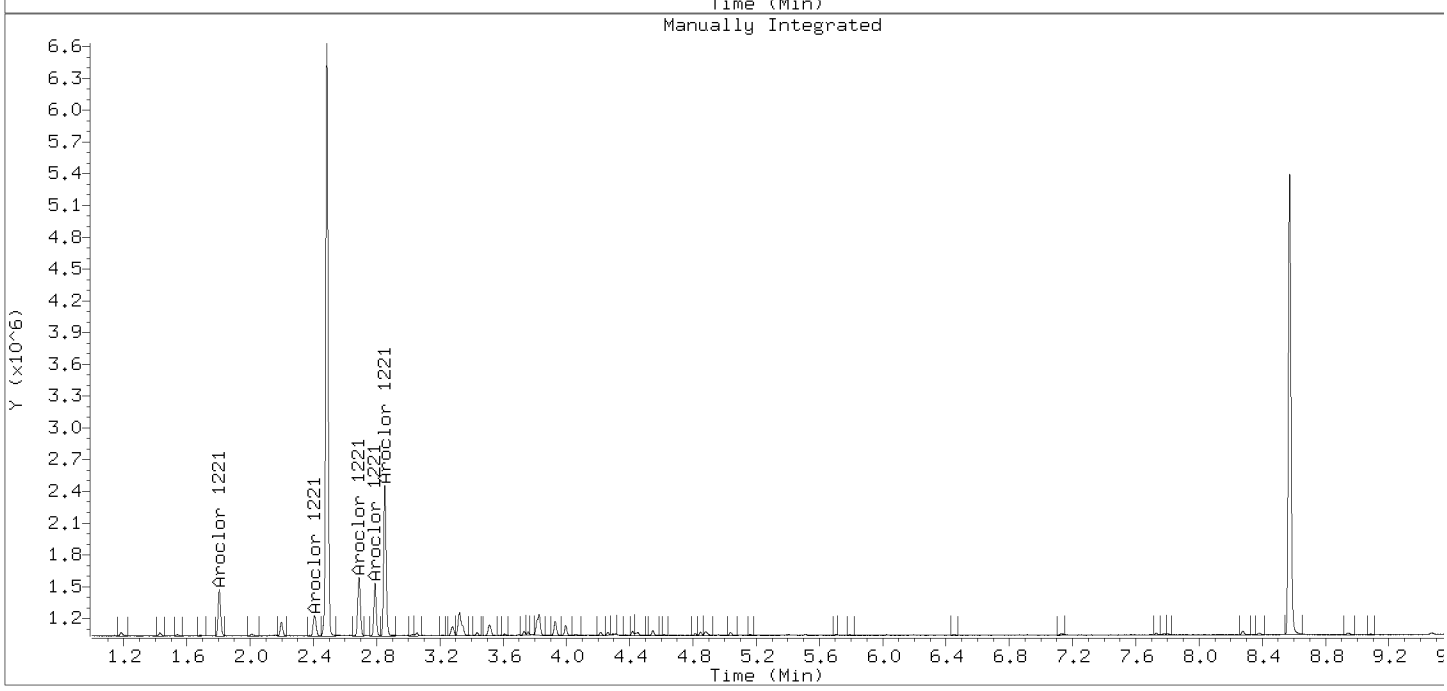
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:55

Client ID: 1221-CAL4F

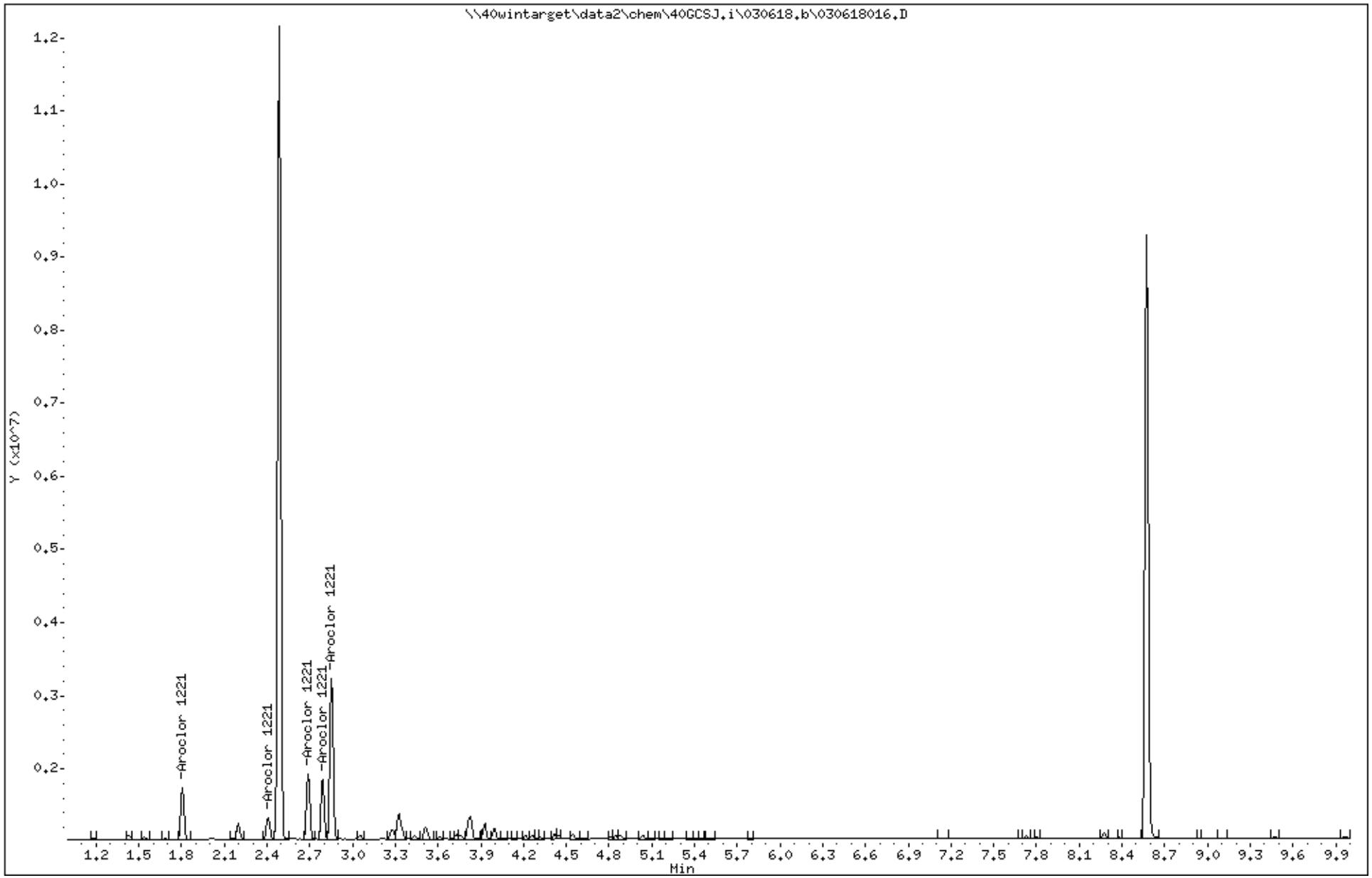
Instrument: 40GCSJ.i

Sample Info: 1221-CAL4F, 188140:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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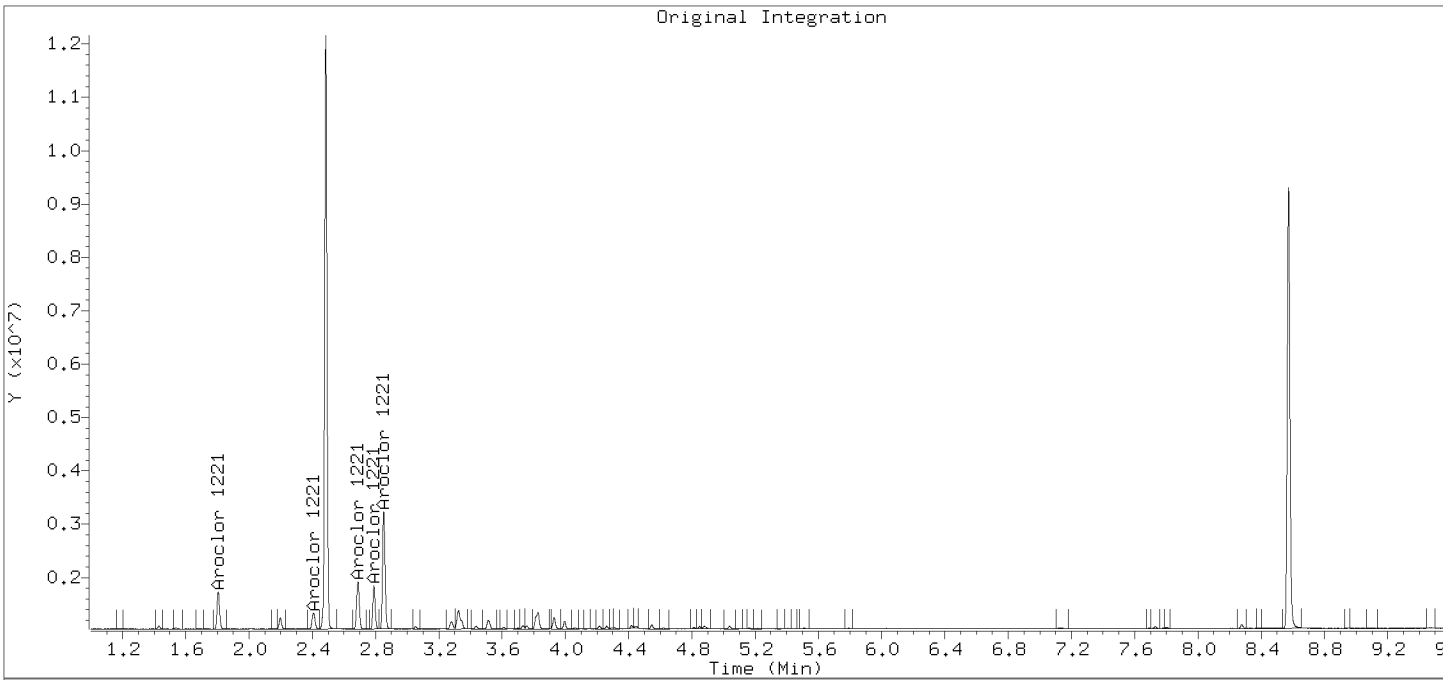
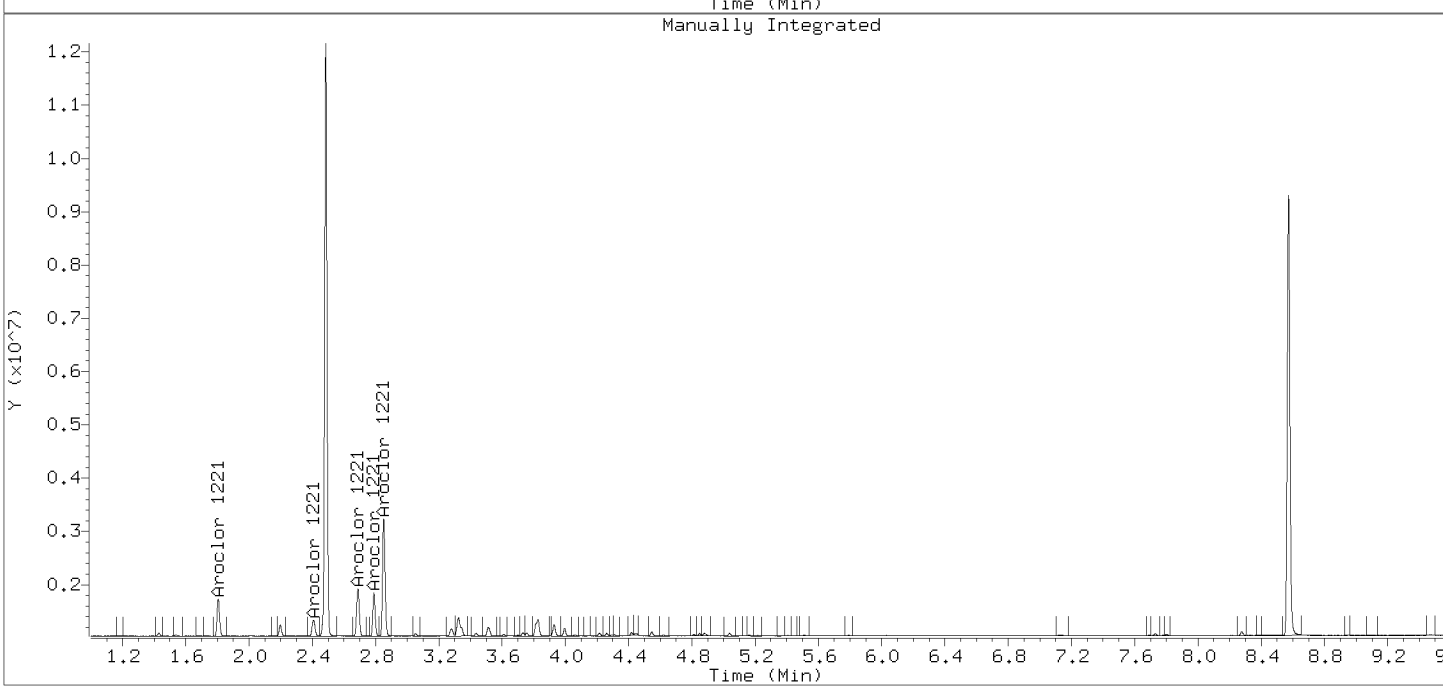
Injection Date: 06-MAR-2018 12:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL4F





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

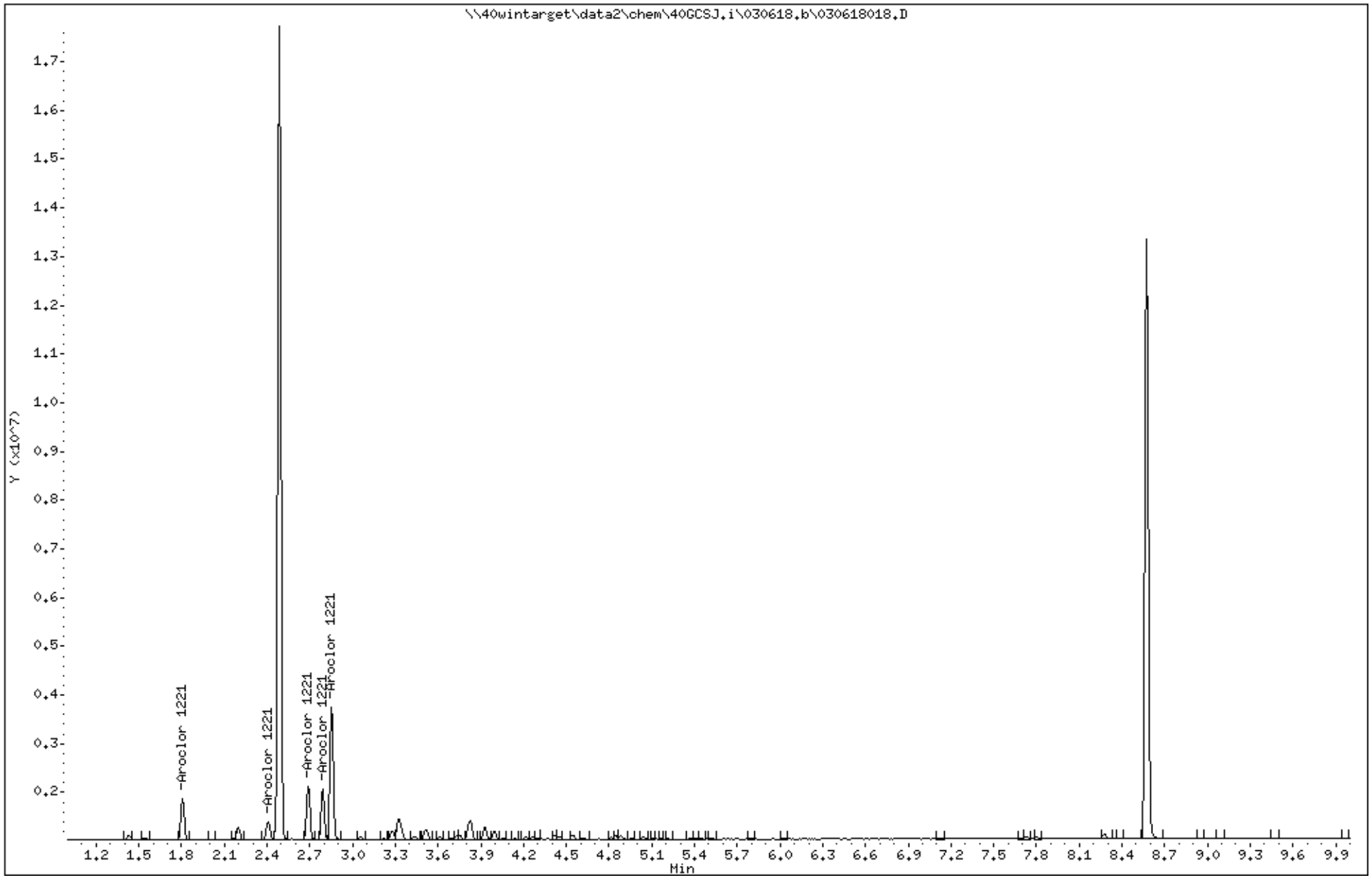
M - Compound response manually integrated.

Review Codes Legend

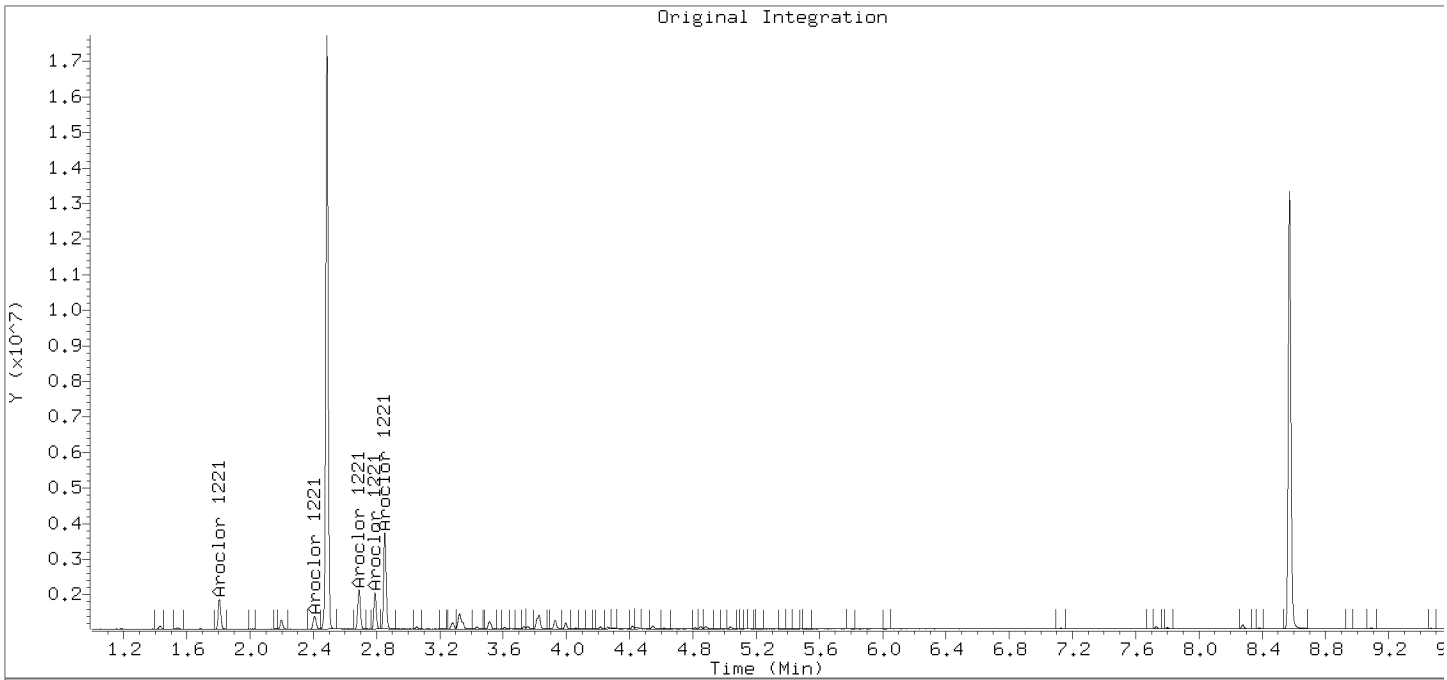
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

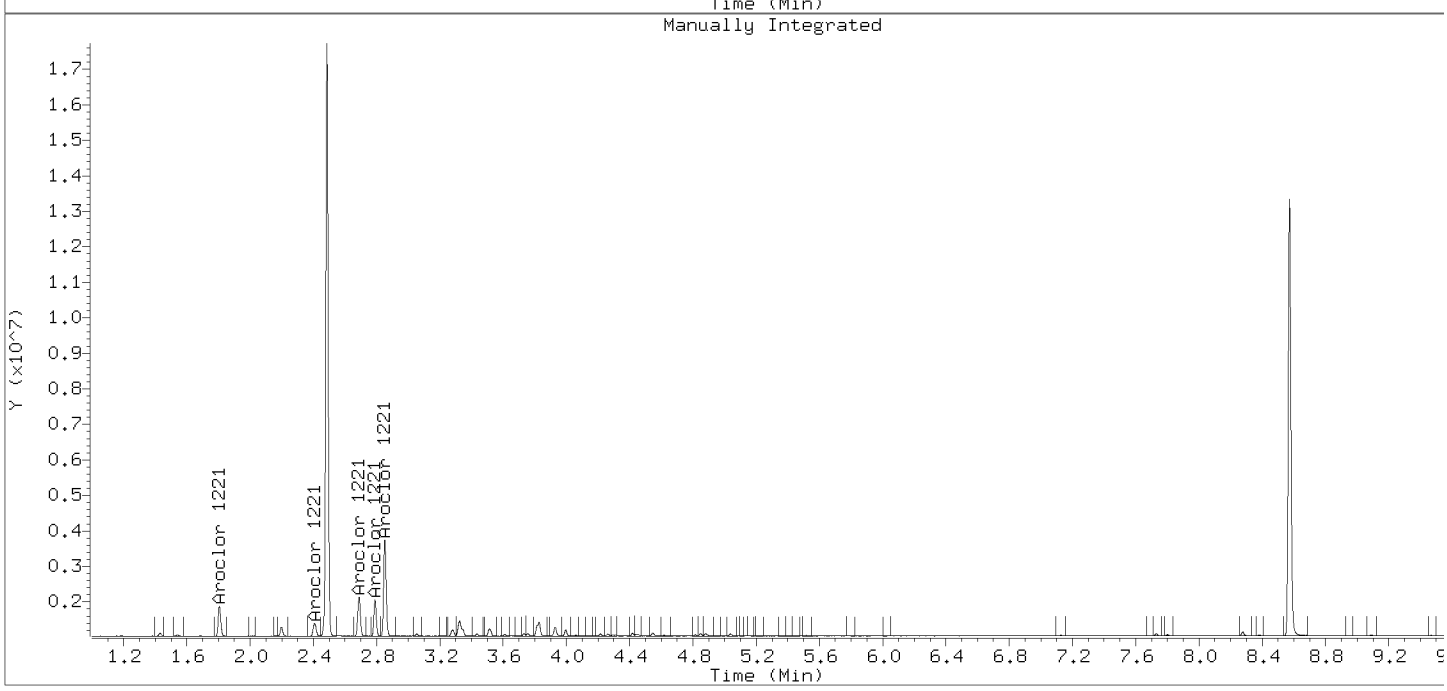
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

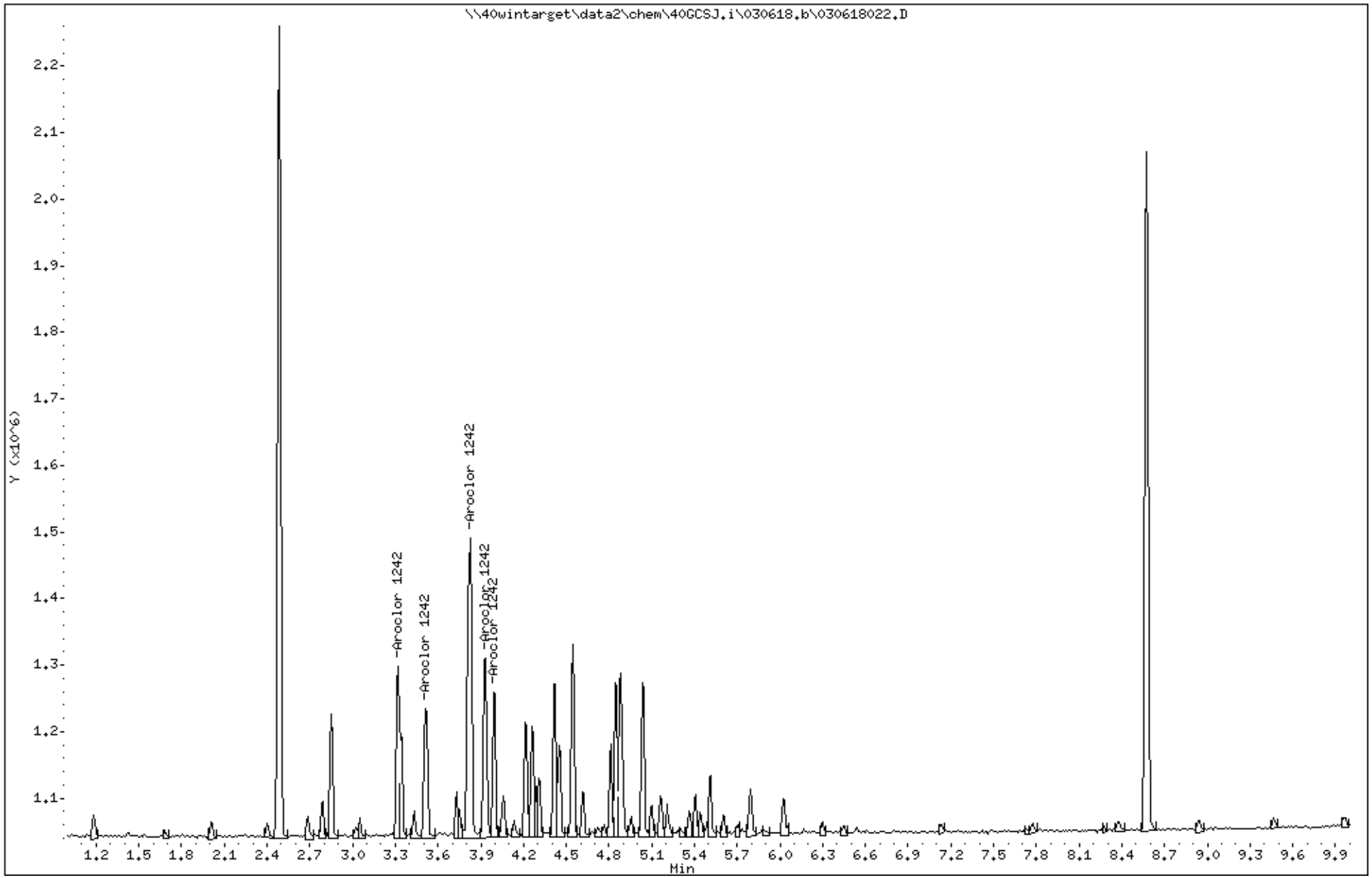
M - Compound response manually integrated.

Review Codes Legend

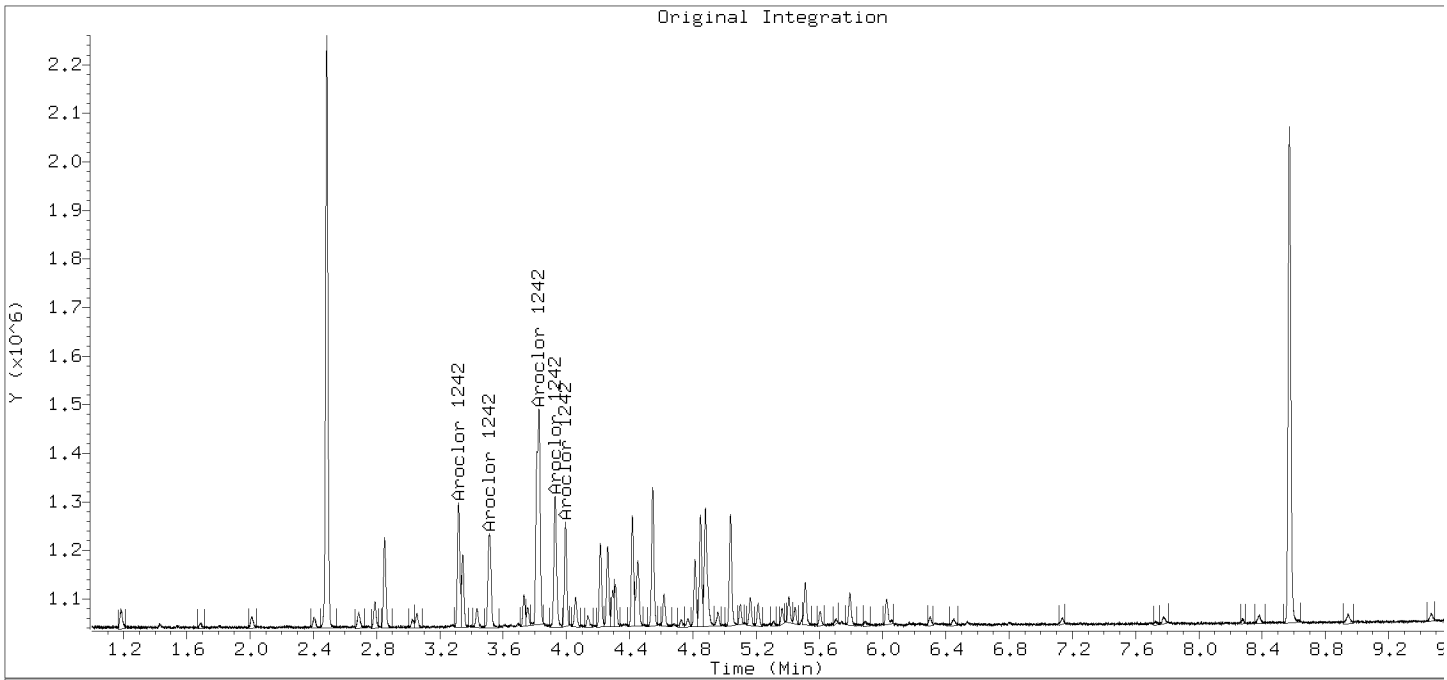
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

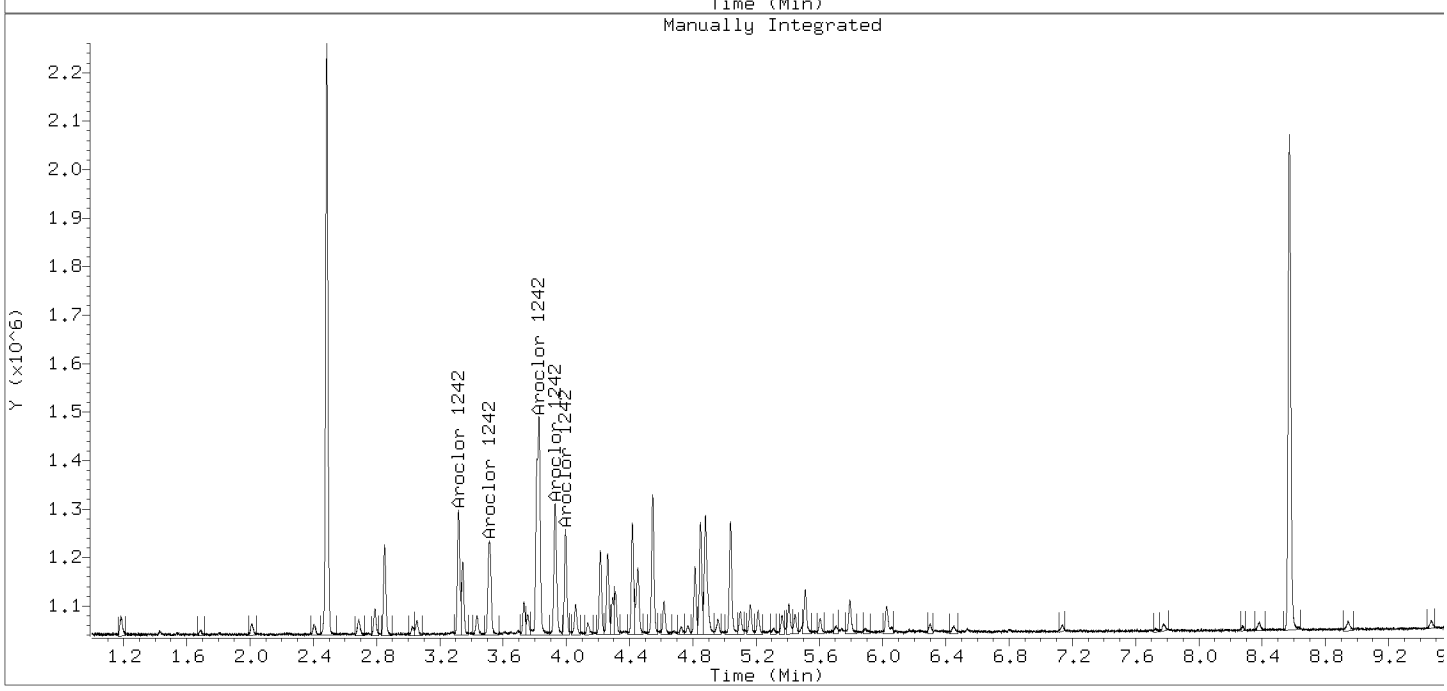
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

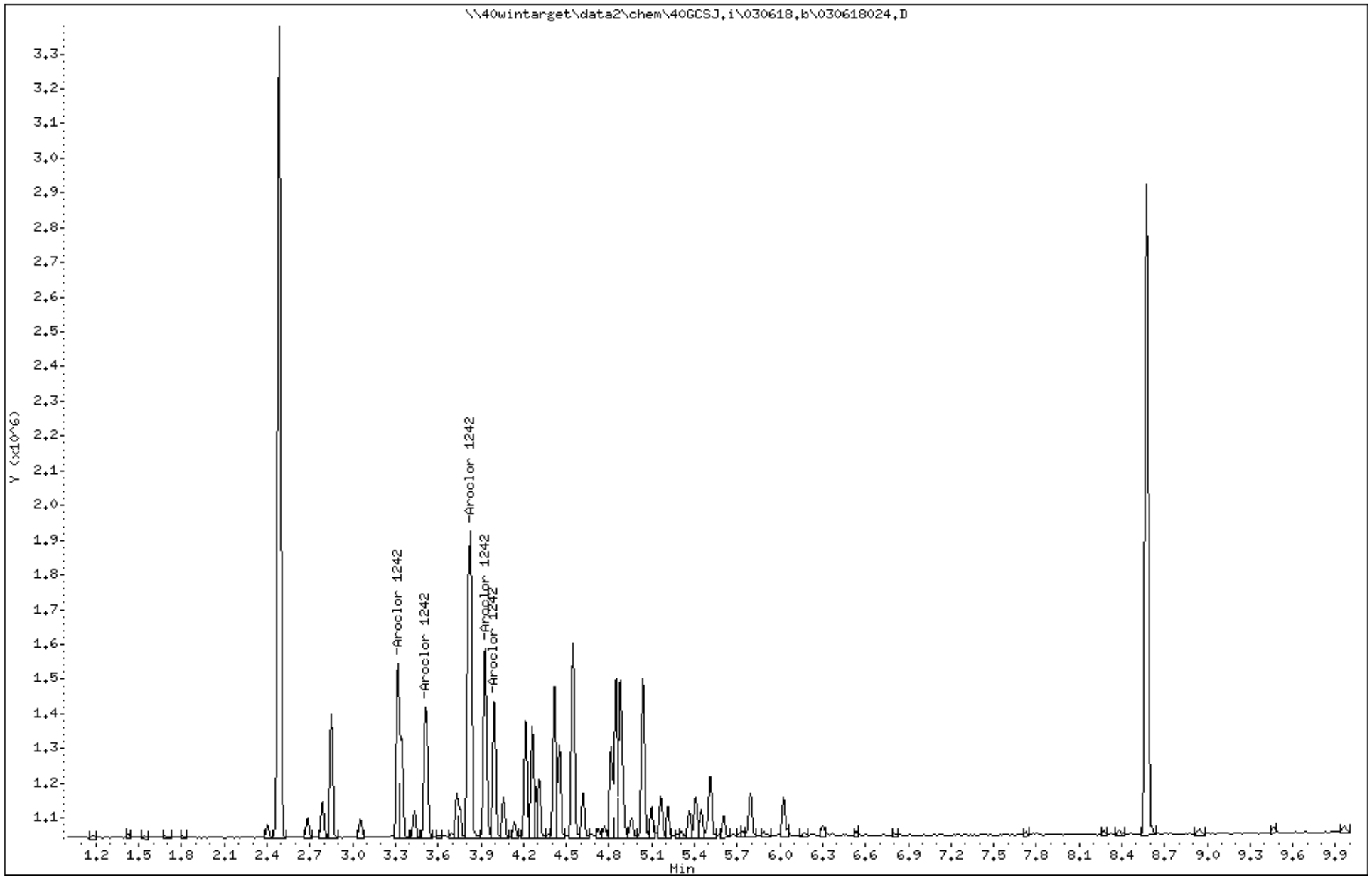
M - Compound response manually integrated.

Review Codes Legend

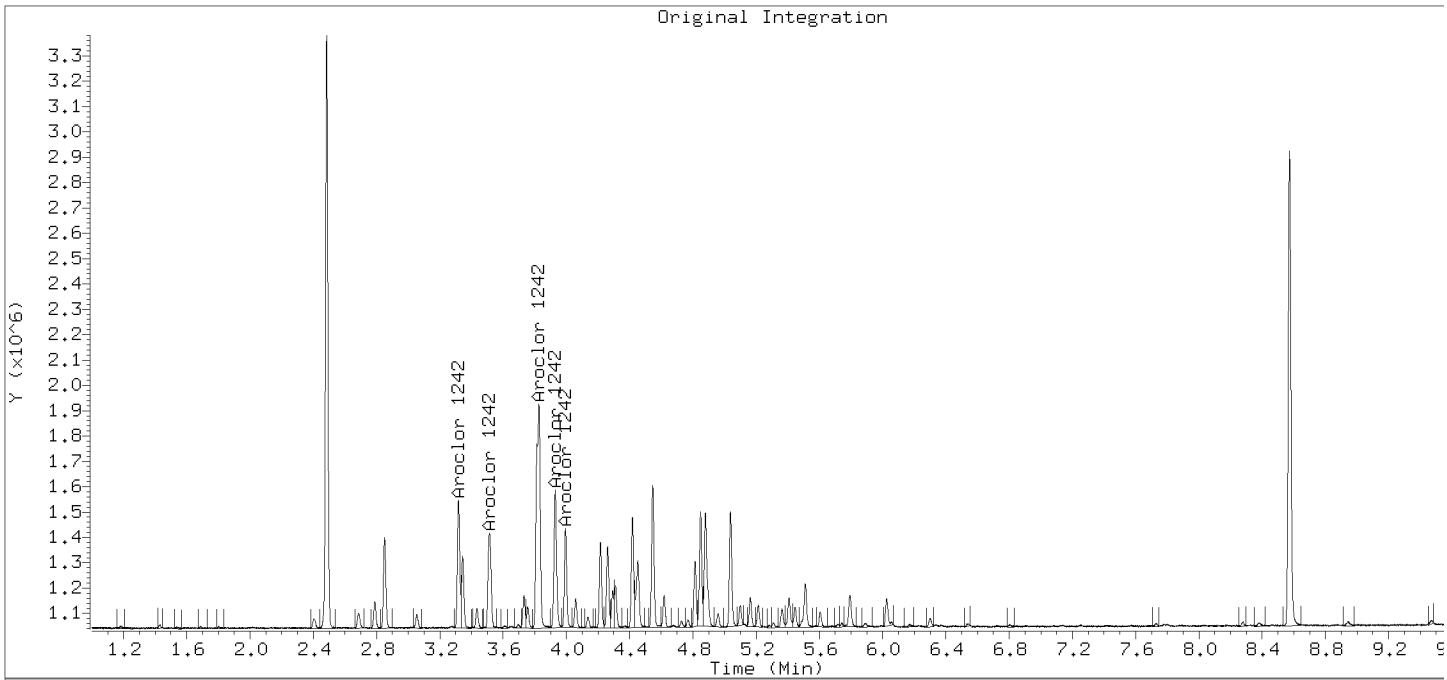
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

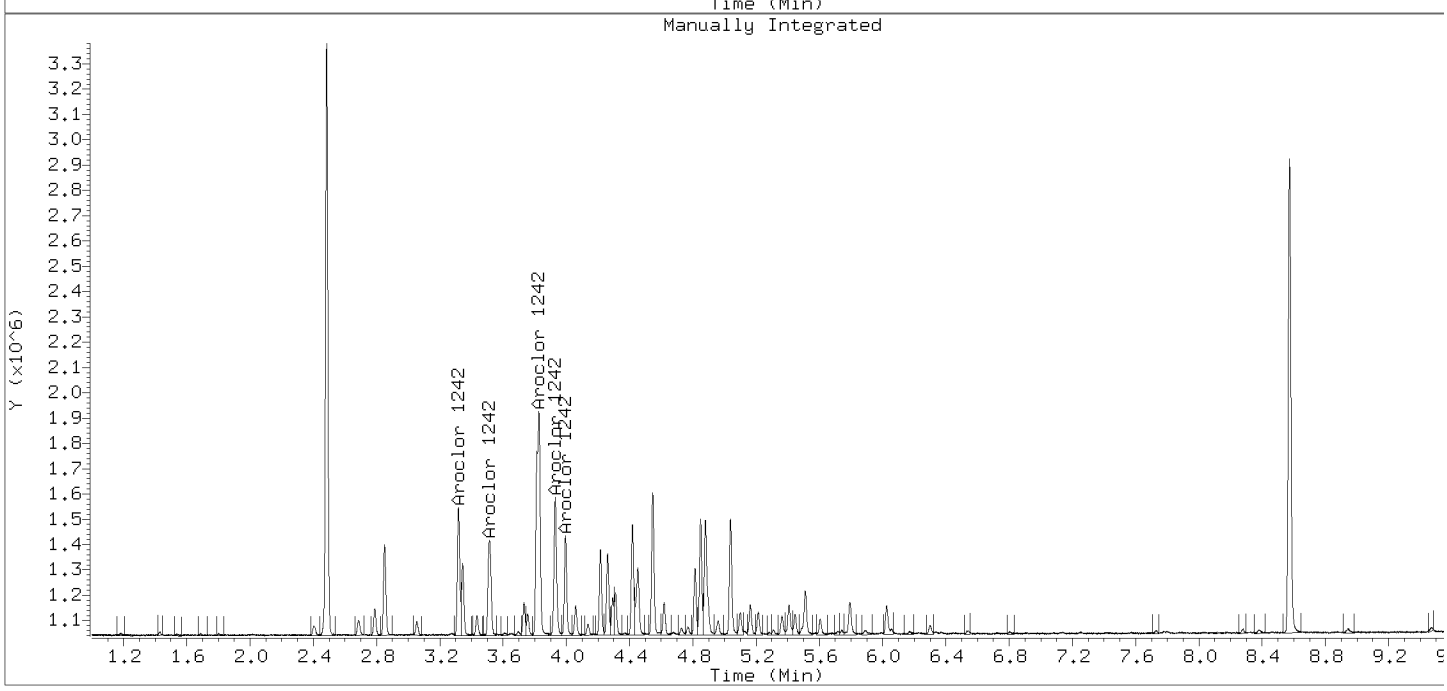
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

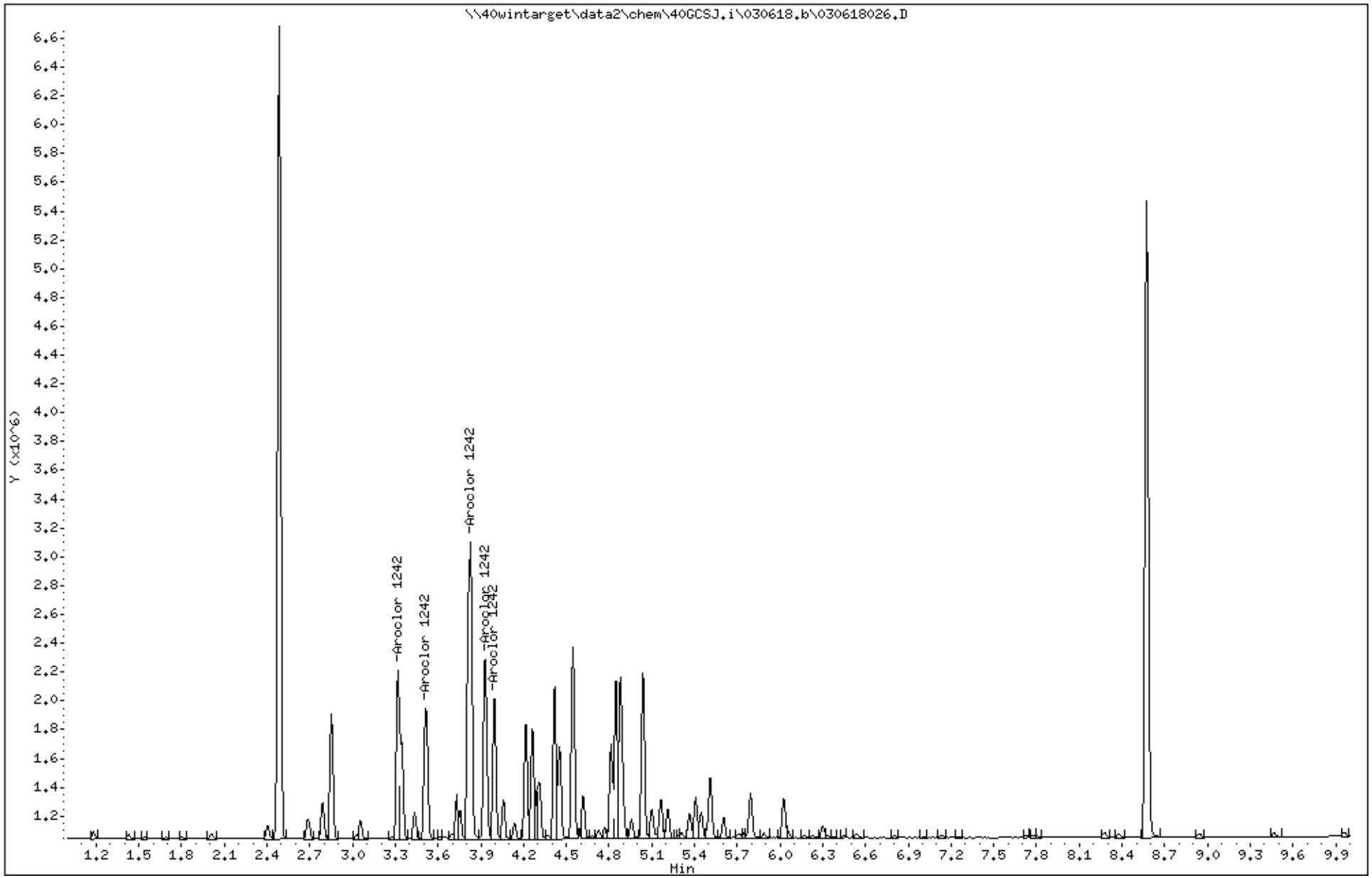
M - Compound response manually integrated.

Review Codes Legend

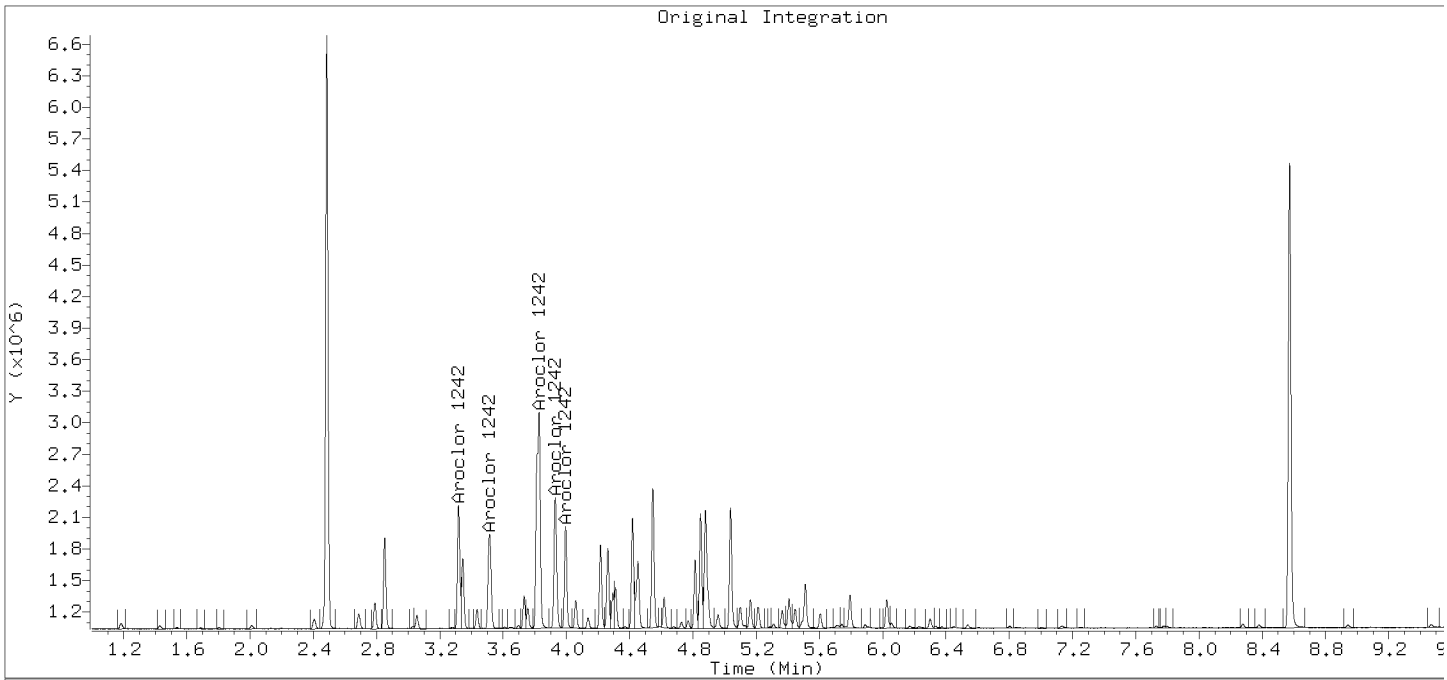
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

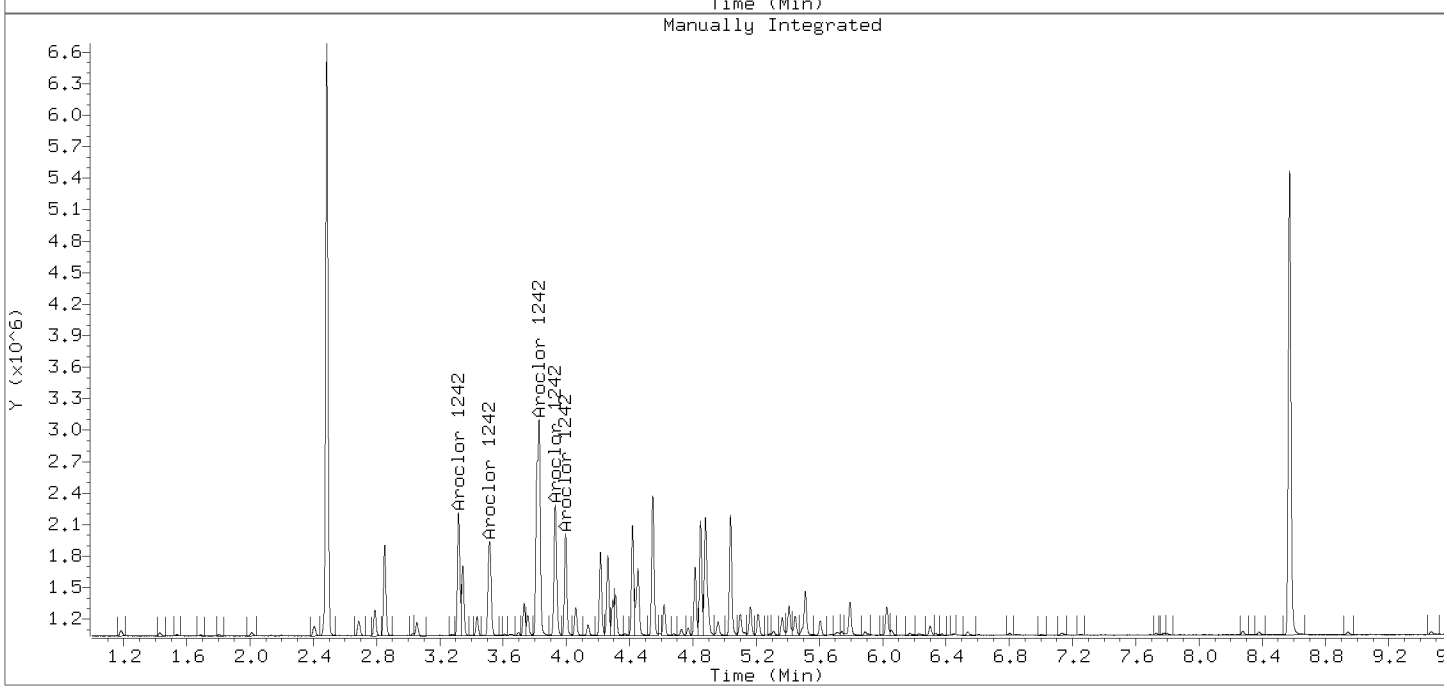
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Date : 06-MAR-2018 14:16
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 14:32

Client ID: 1242-CAL4B

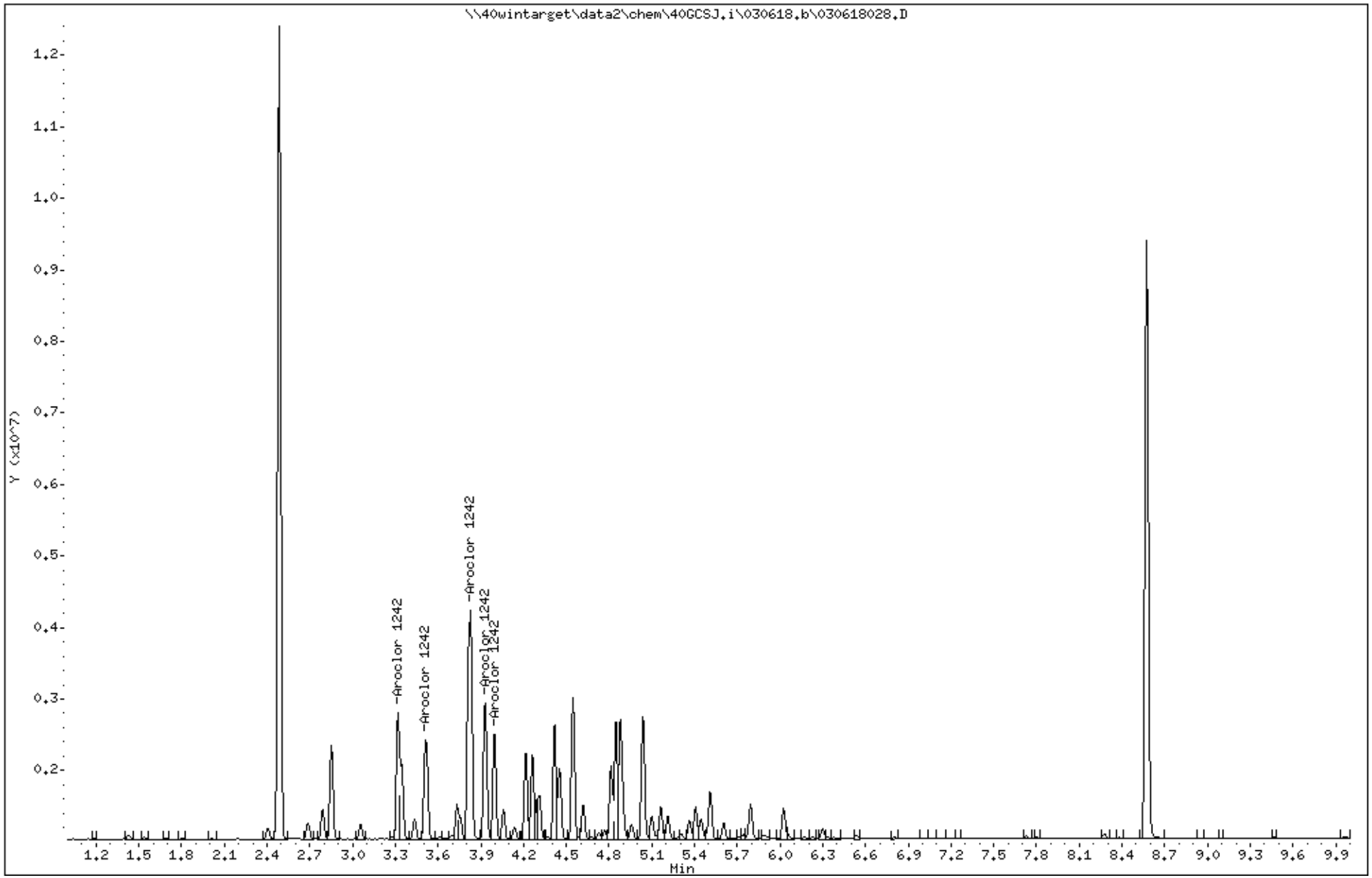
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

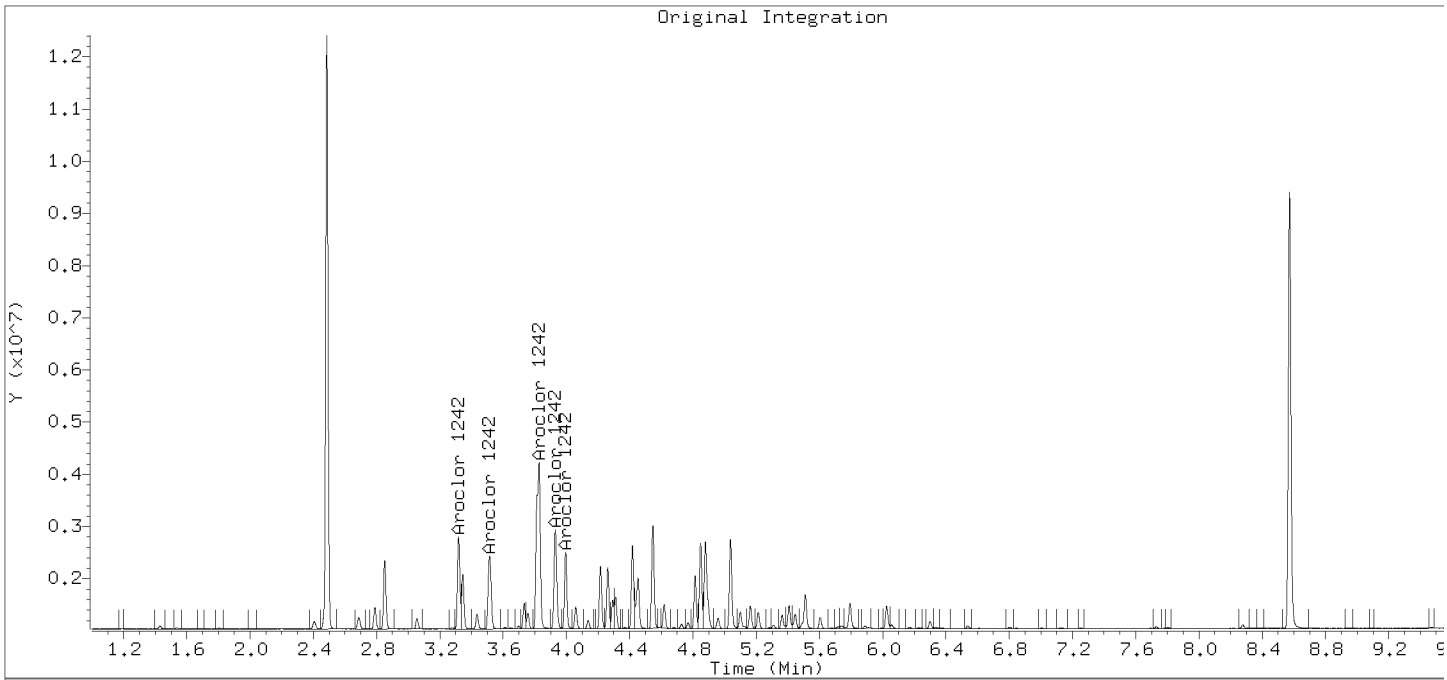
Operator: BLM

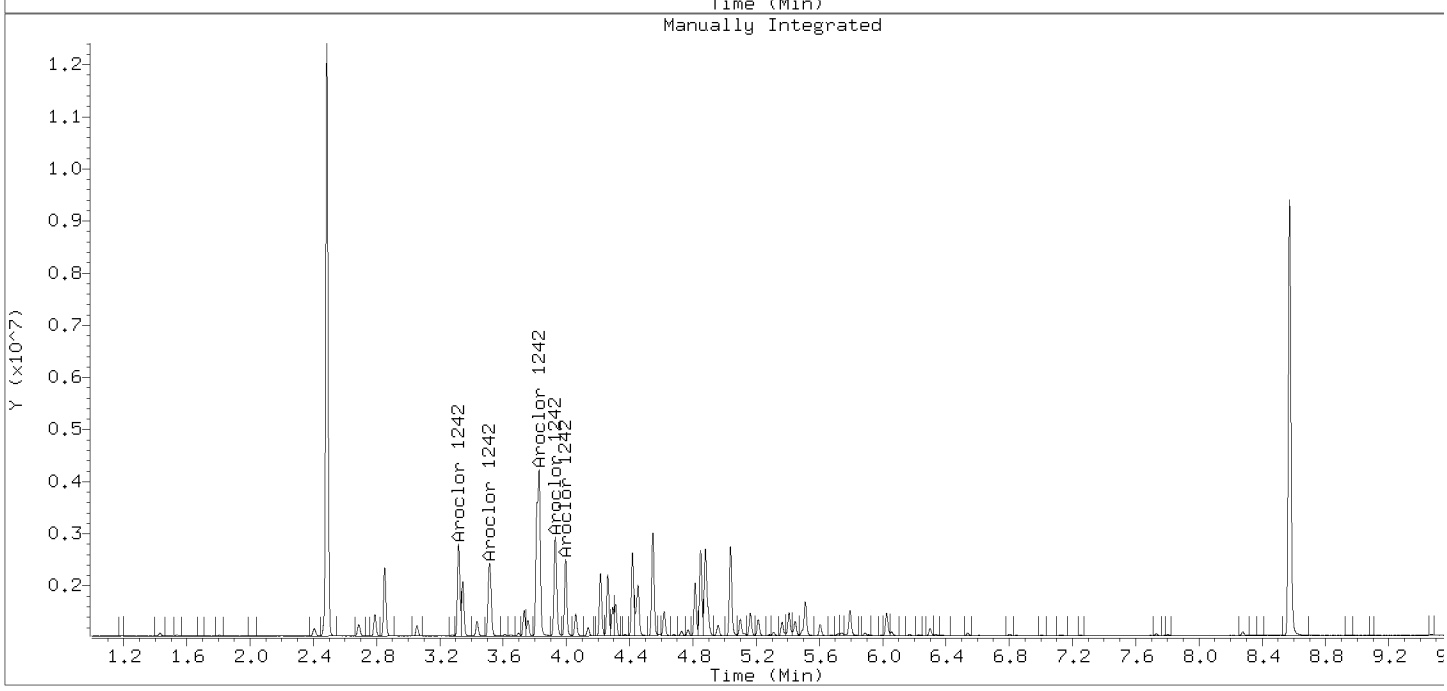
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

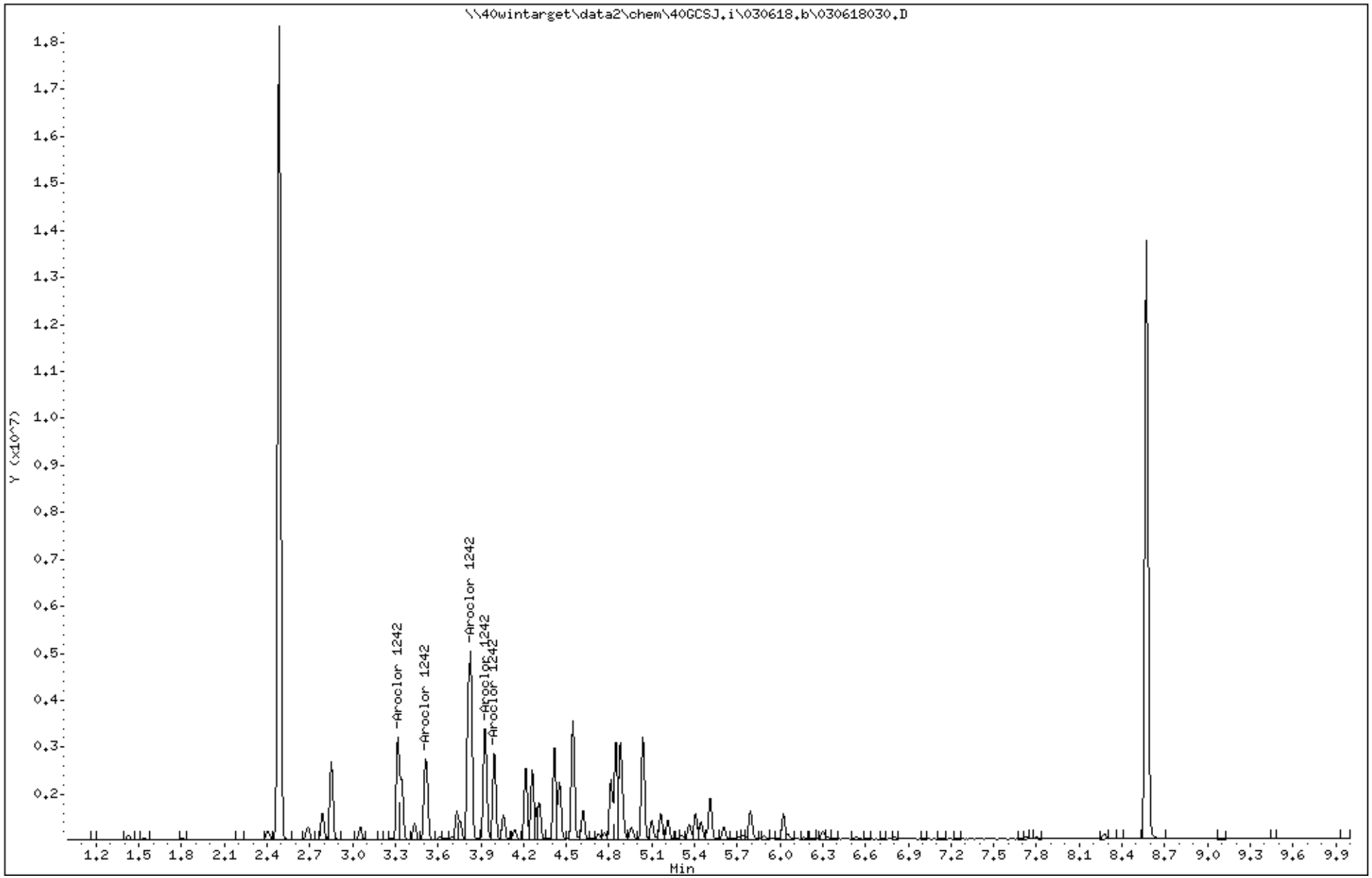
M - Compound response manually integrated.

Review Codes Legend

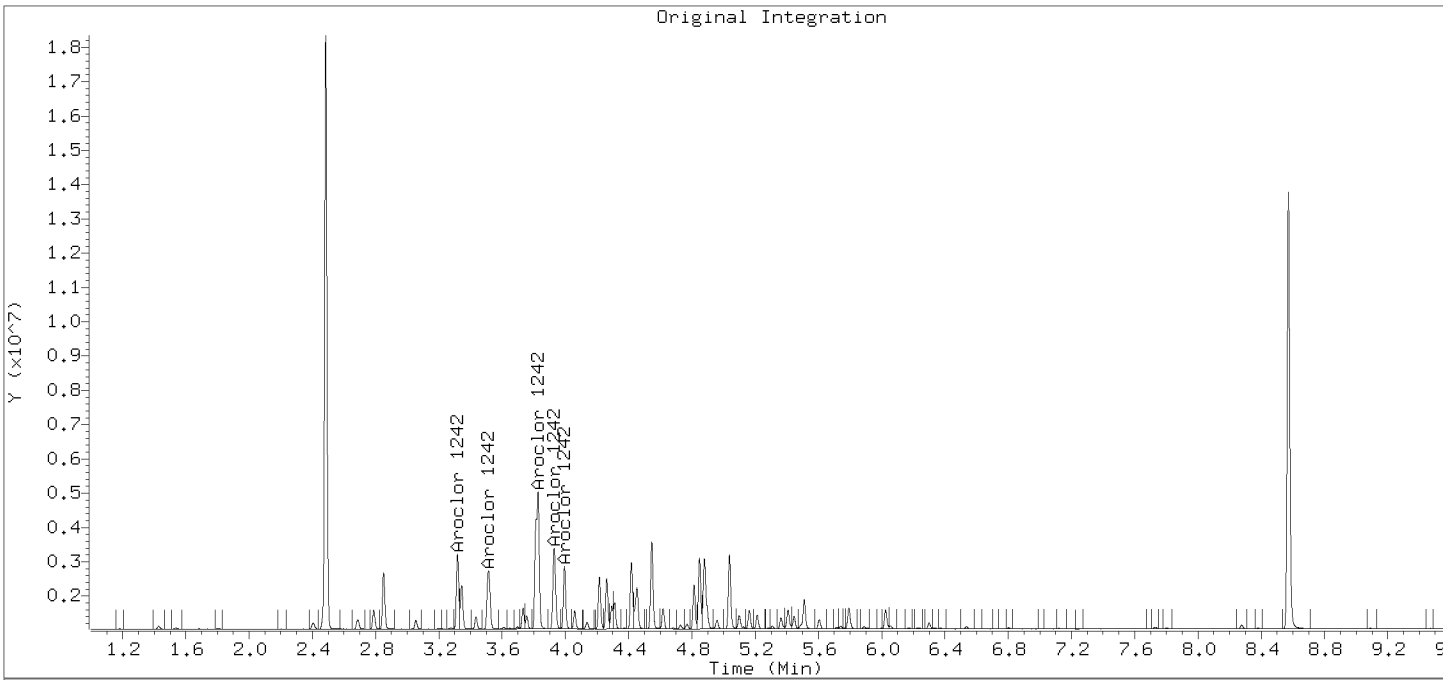
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

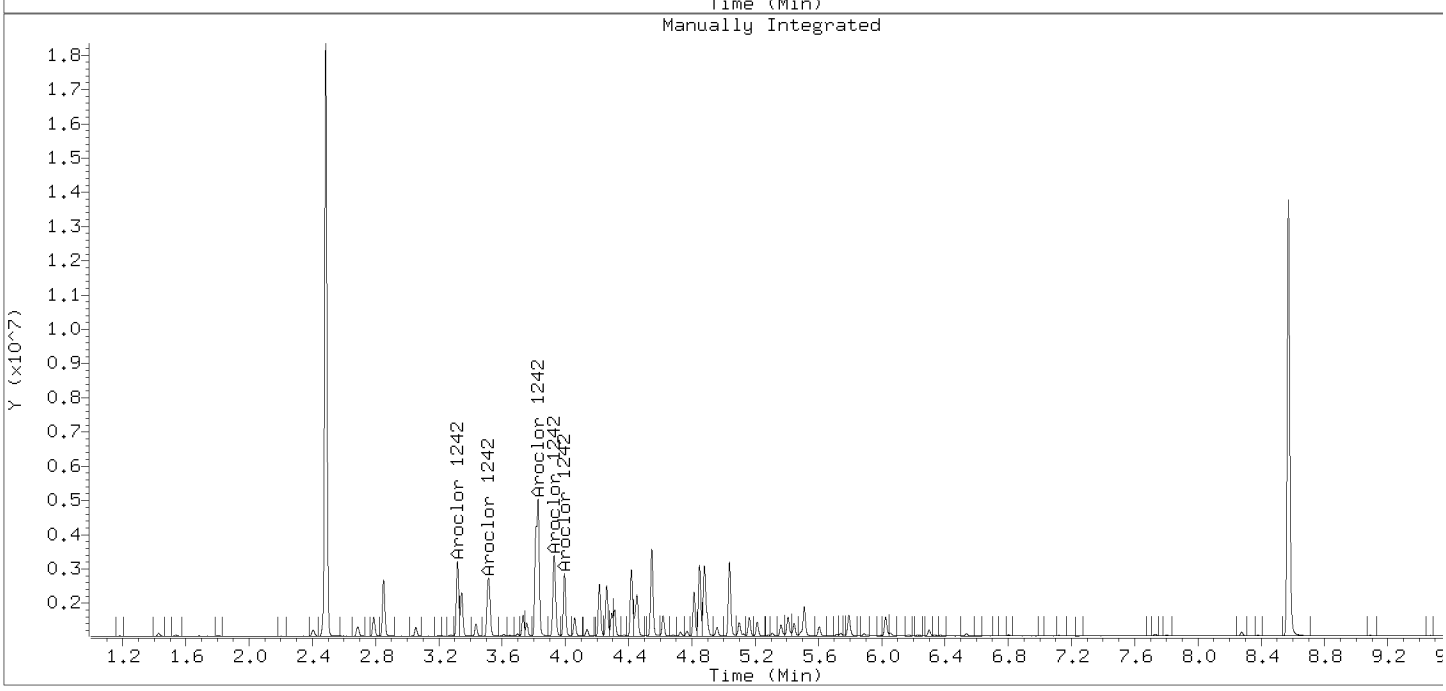
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

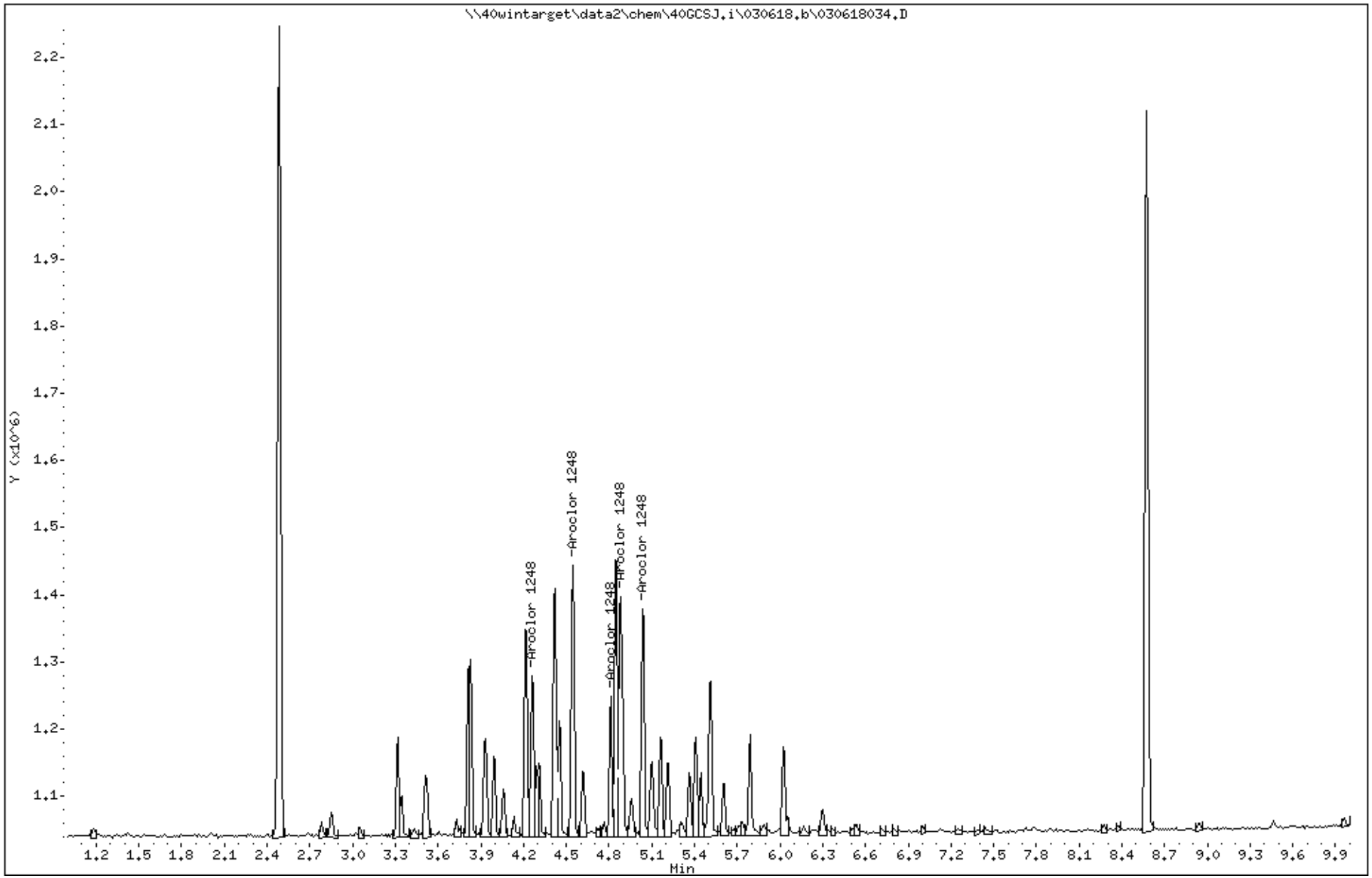
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSJ.i

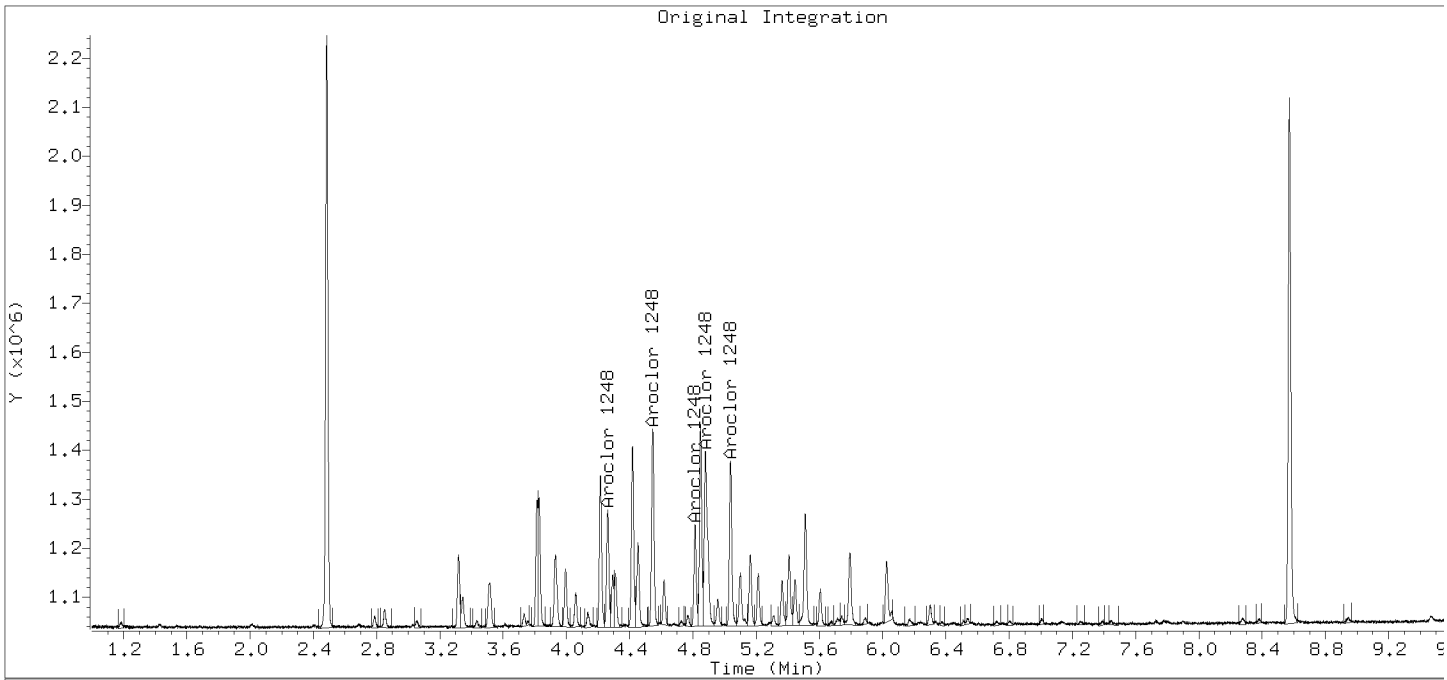
Operator: BLM

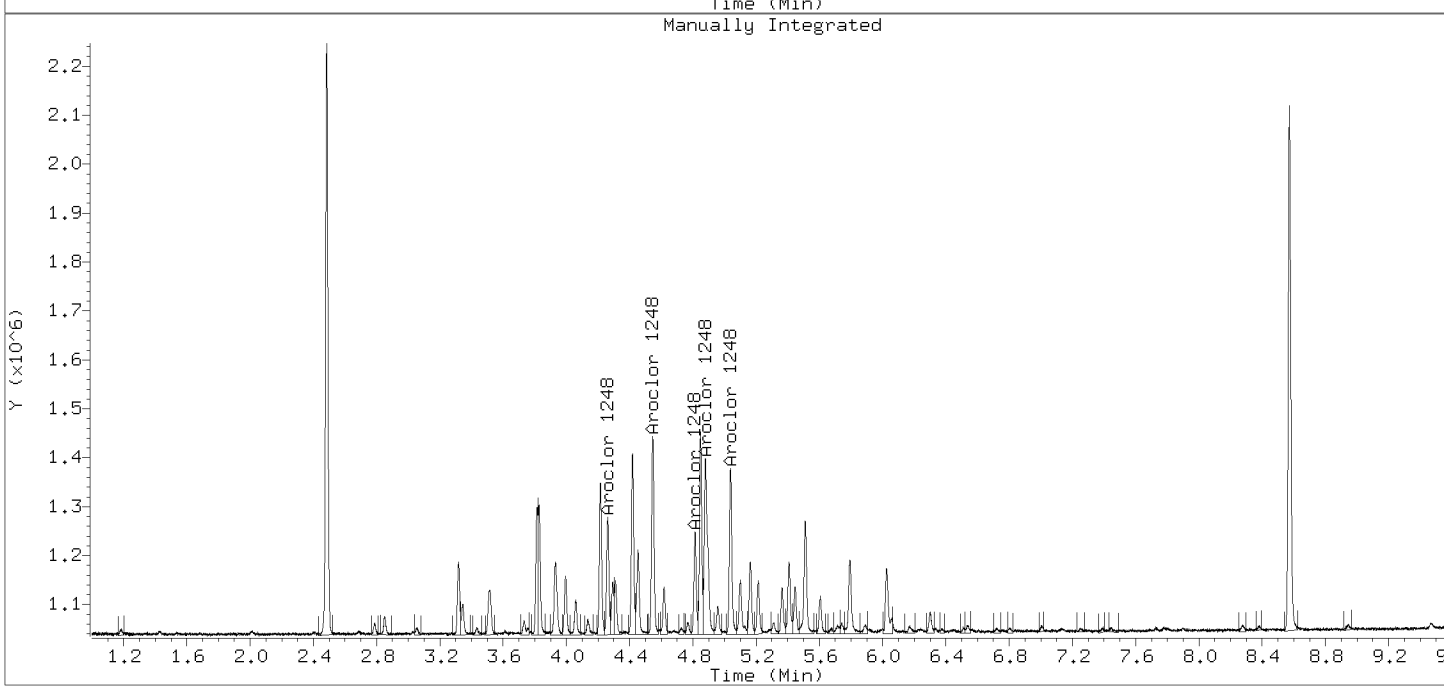
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 15:37

Client ID: 1248-CAL2D

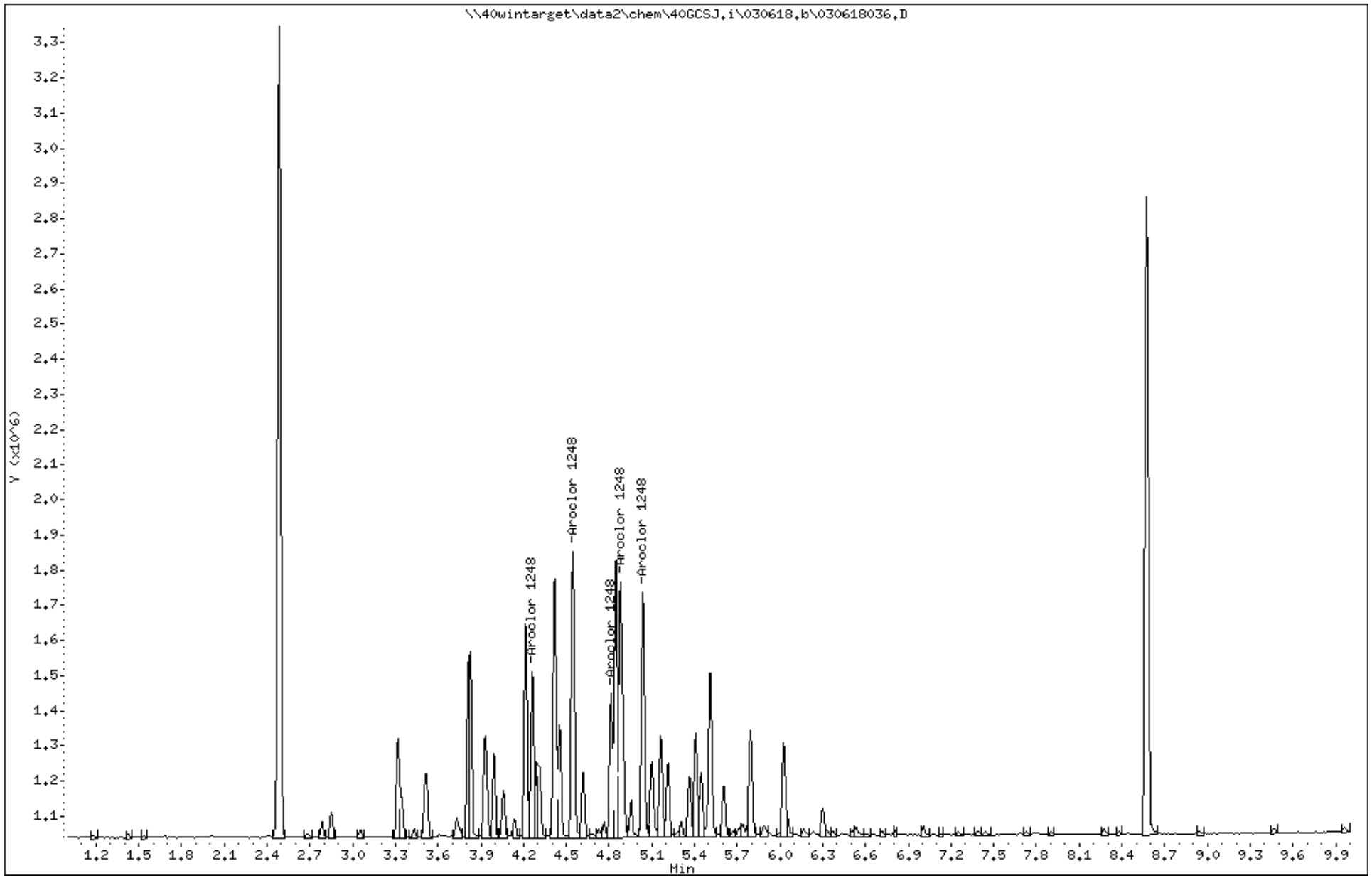
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

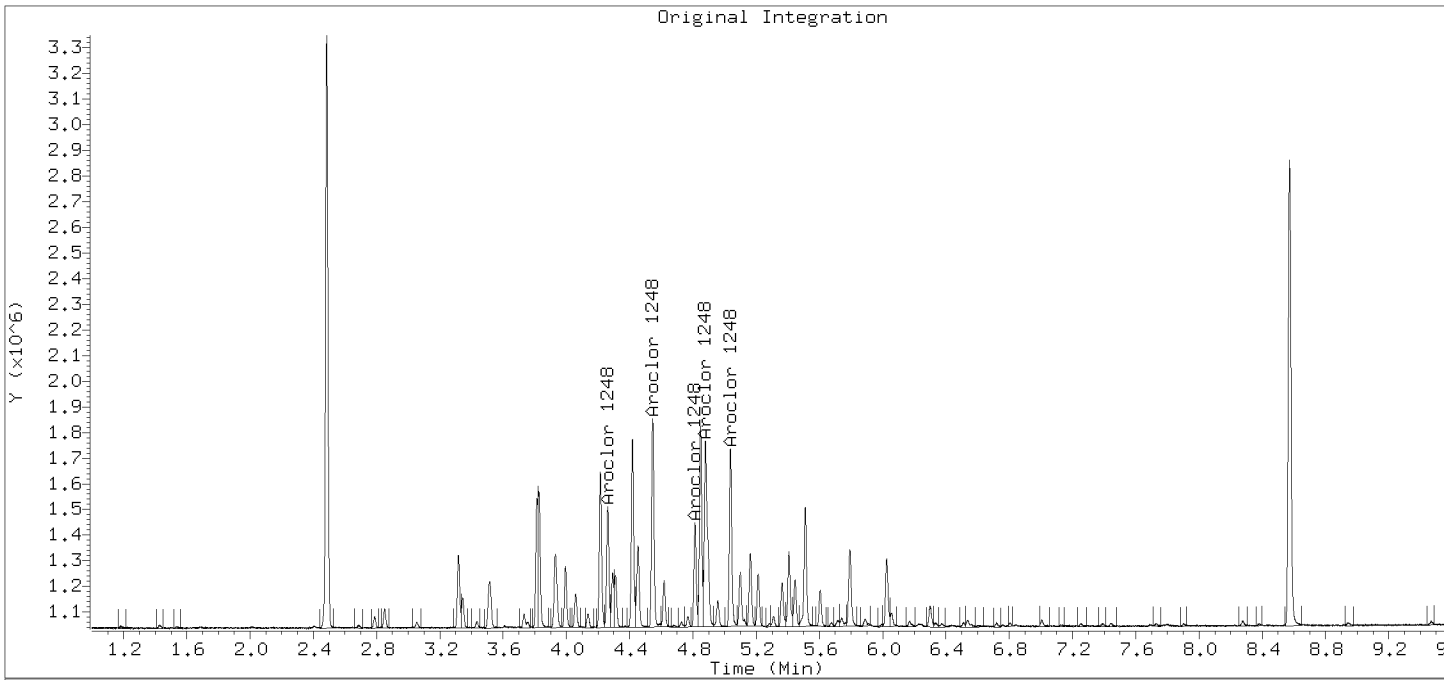
Operator: BLM

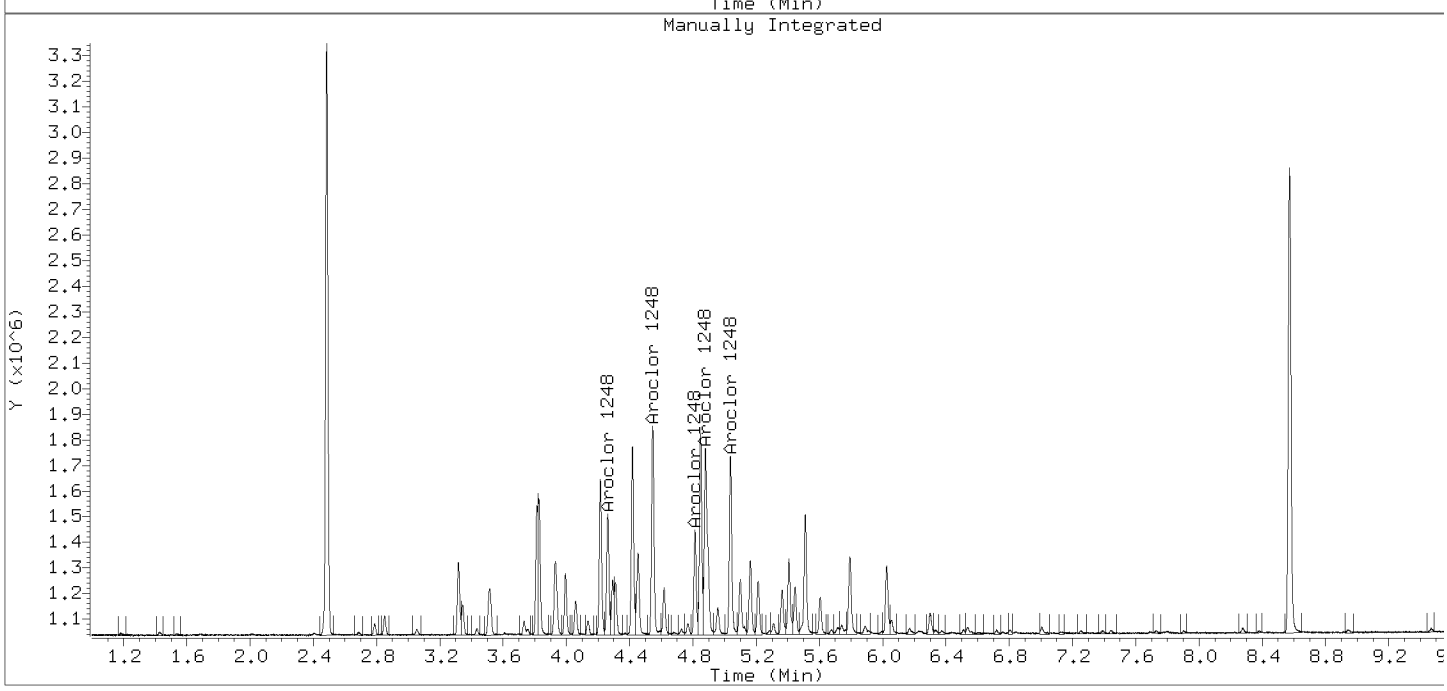
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

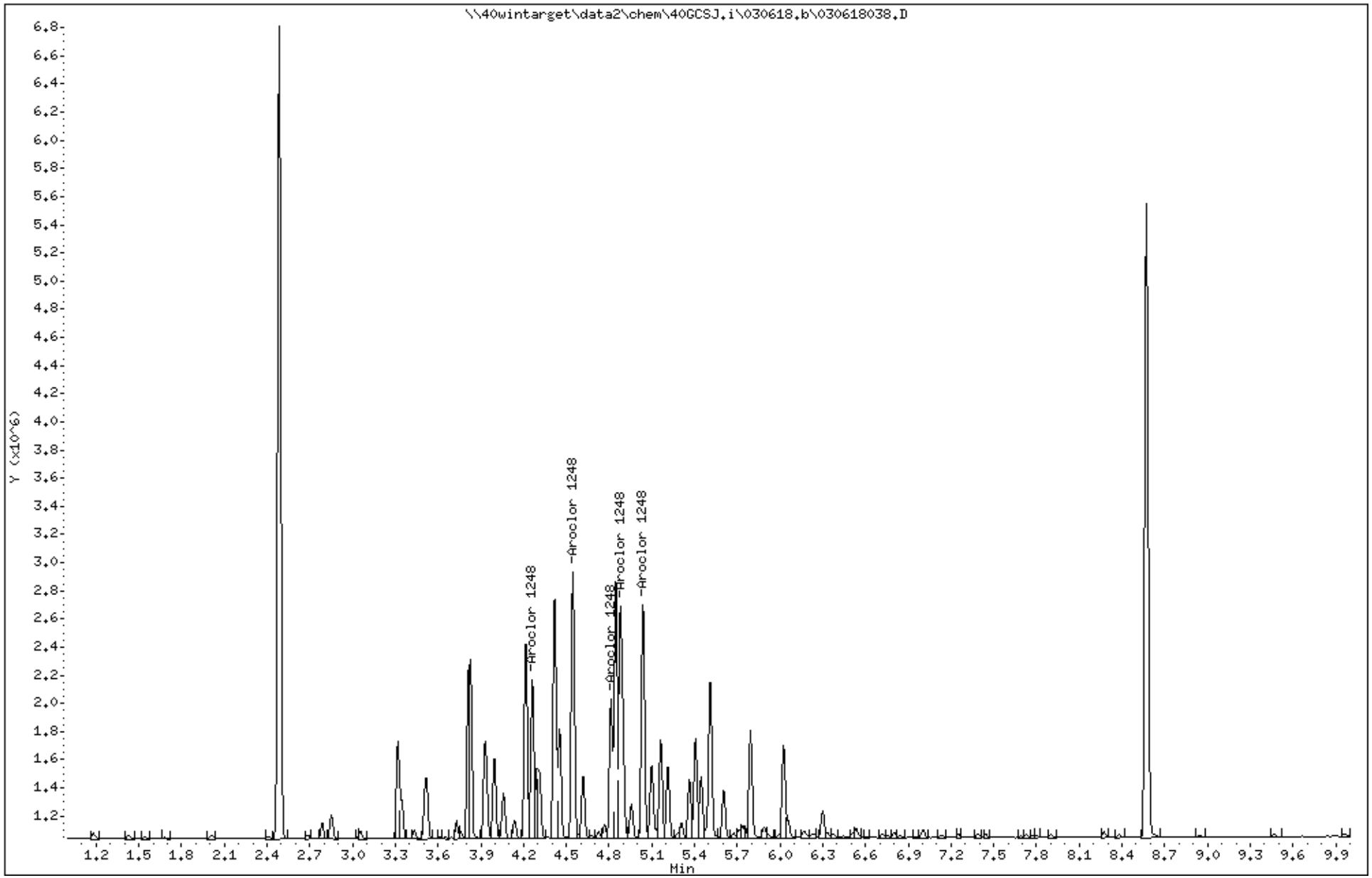
M - Compound response manually integrated.

Review Codes Legend

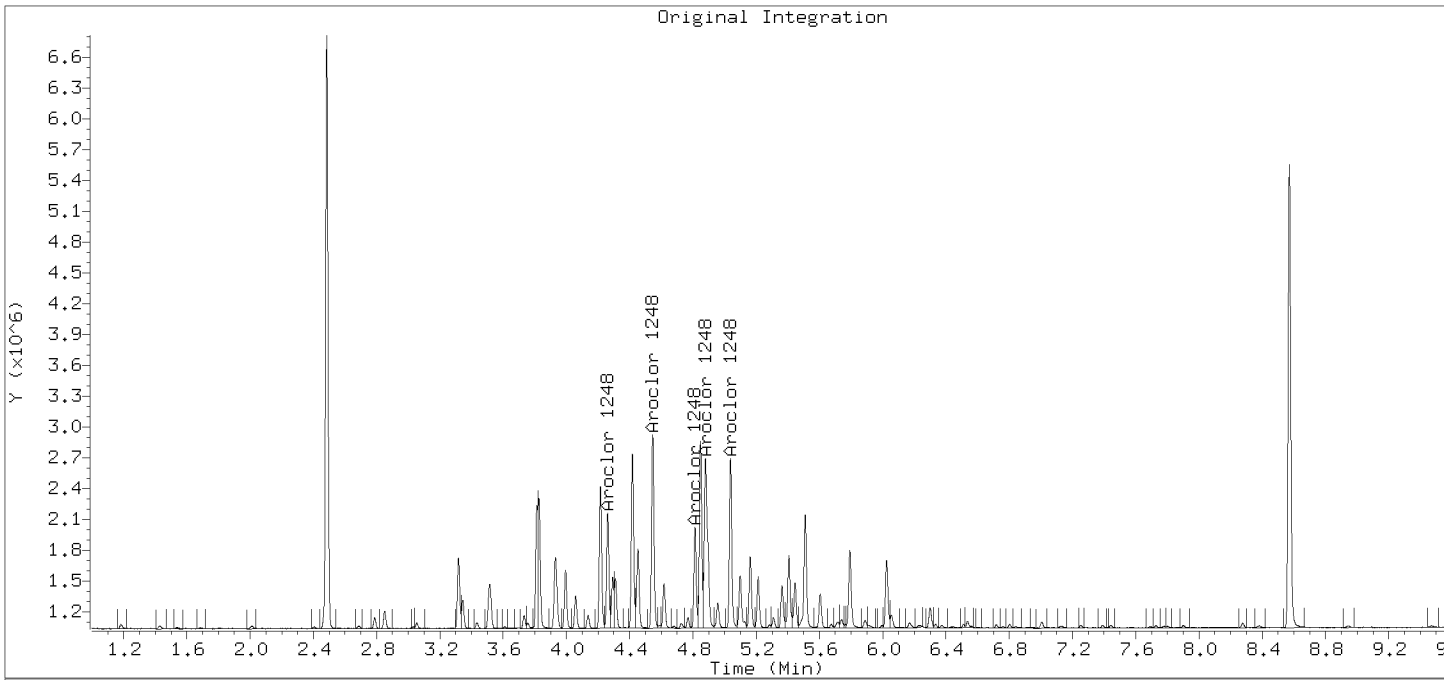
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

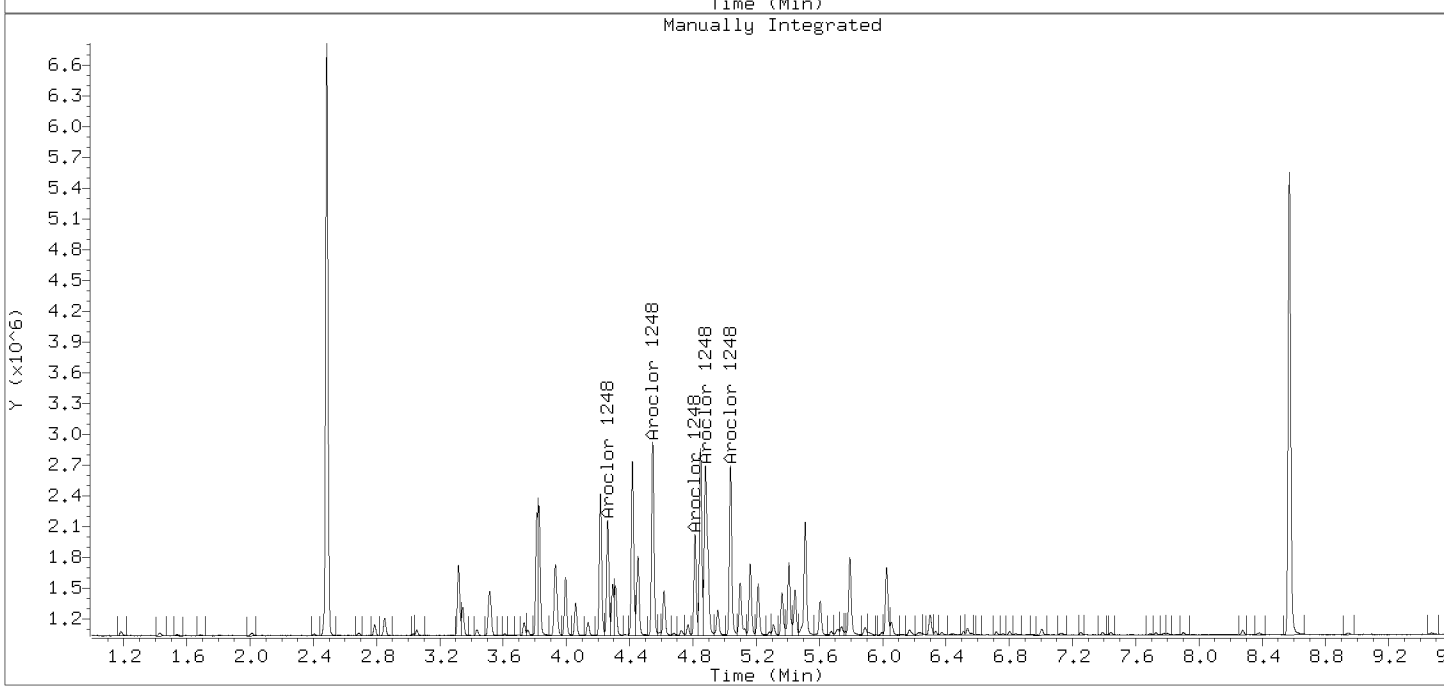
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618038.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

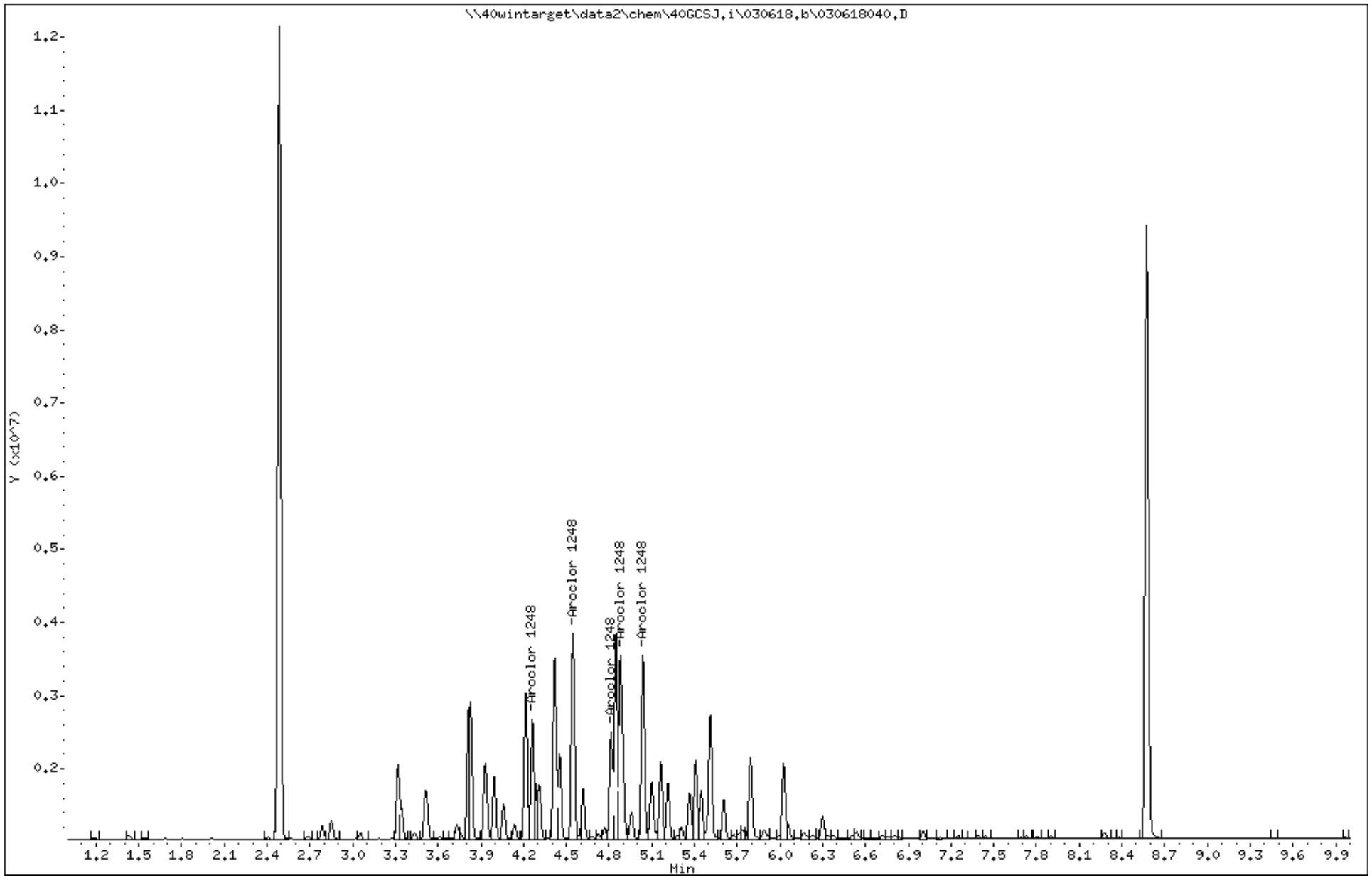
M - Compound response manually integrated.

Review Codes Legend

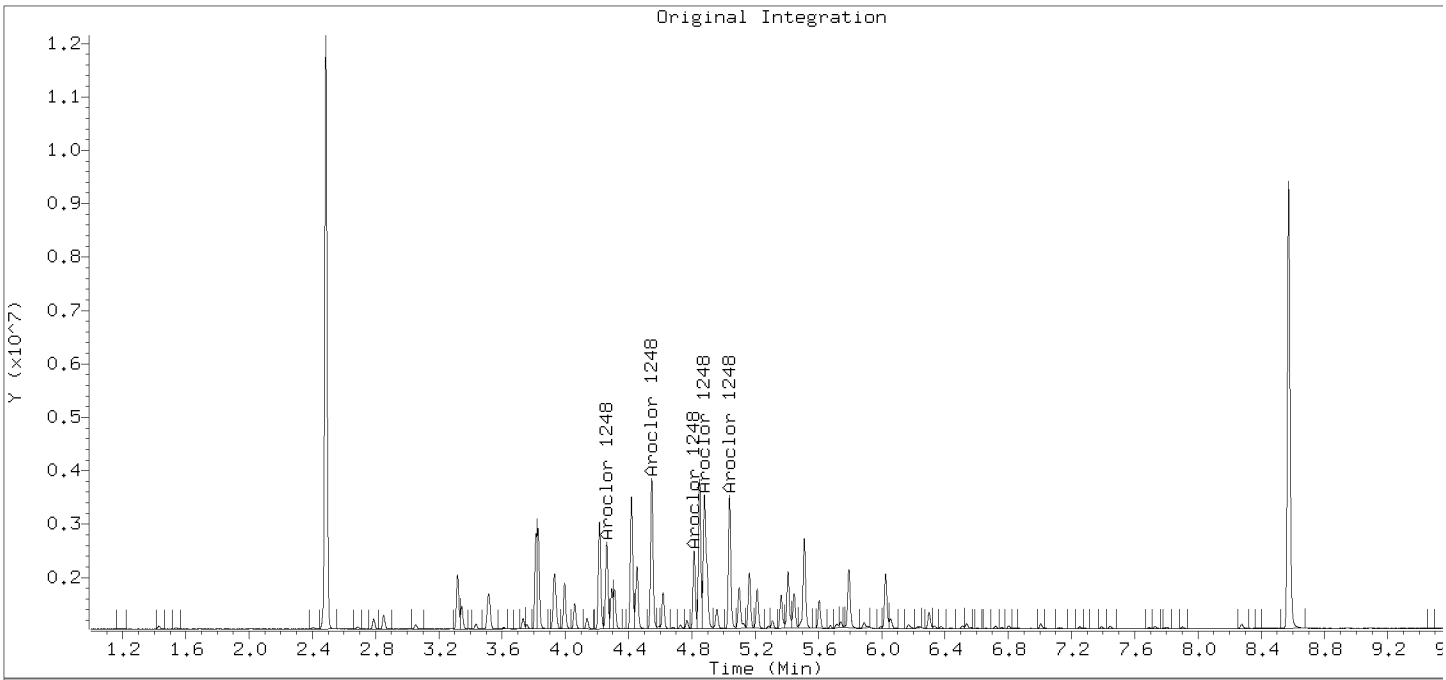
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

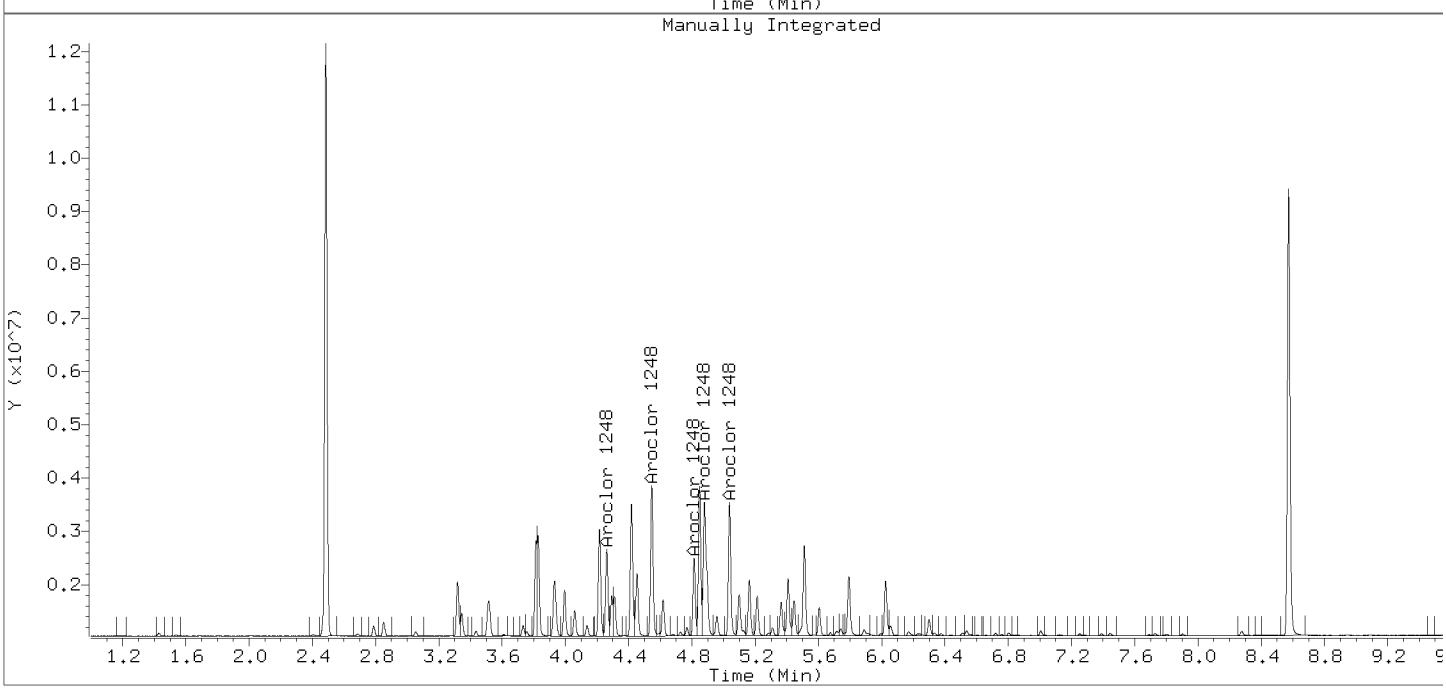
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618040.D
Date : 06-MAR-2018 16:09
Client ID: 1248-CAL4D
Sample Info: 1248-CAL4D, 185550:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

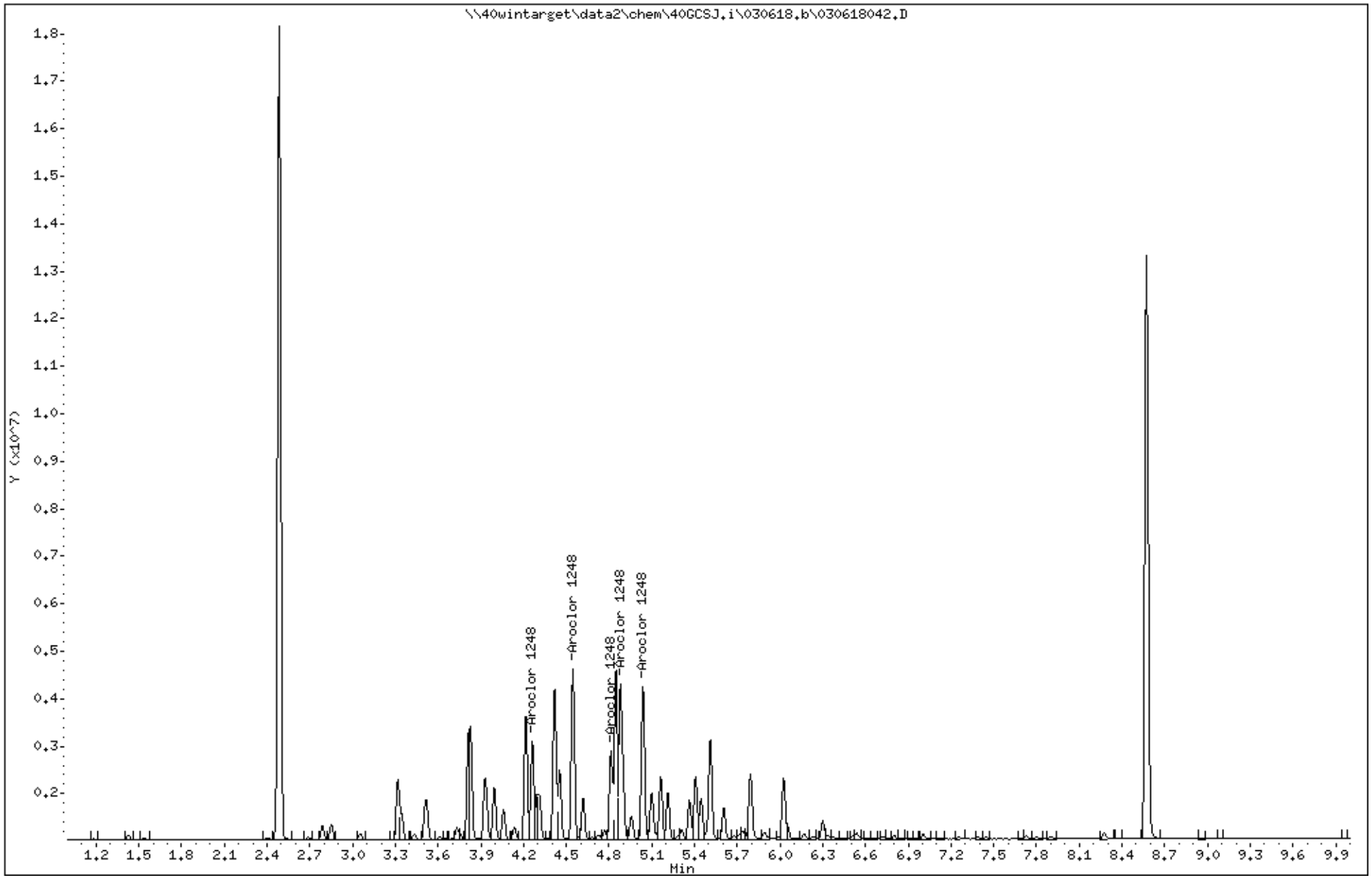
M - Compound response manually integrated.

Review Codes Legend

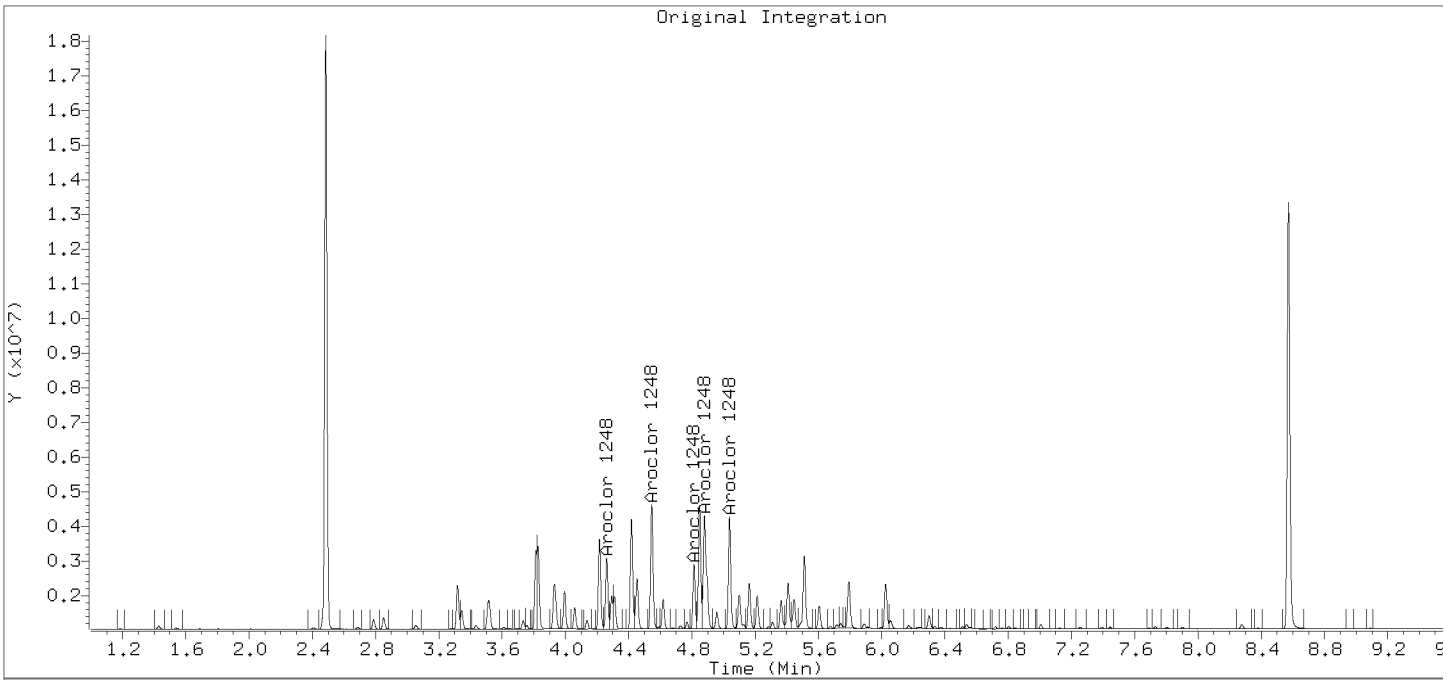
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

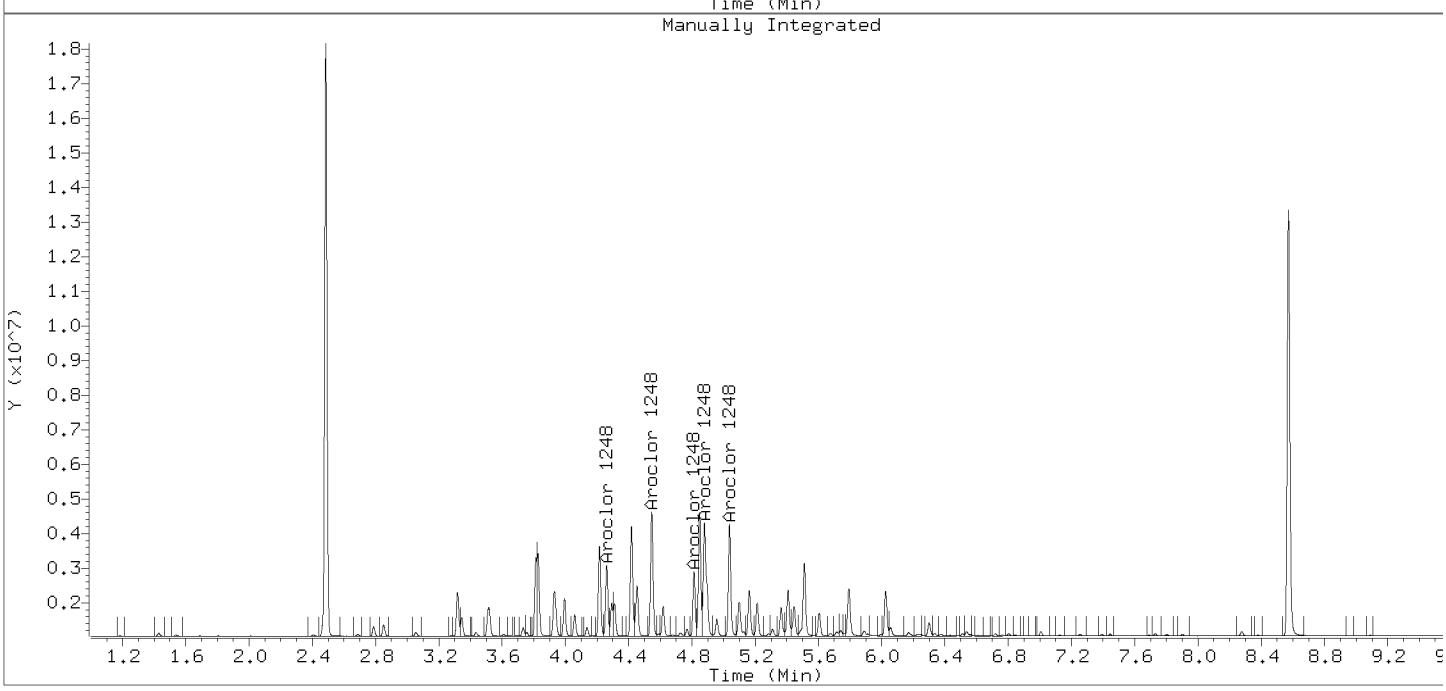
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618042.D
Date : 06-MAR-2018 16:25
Client ID: 1248-CAL5D
Sample Info: 1248-CAL5D, 185551:1

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

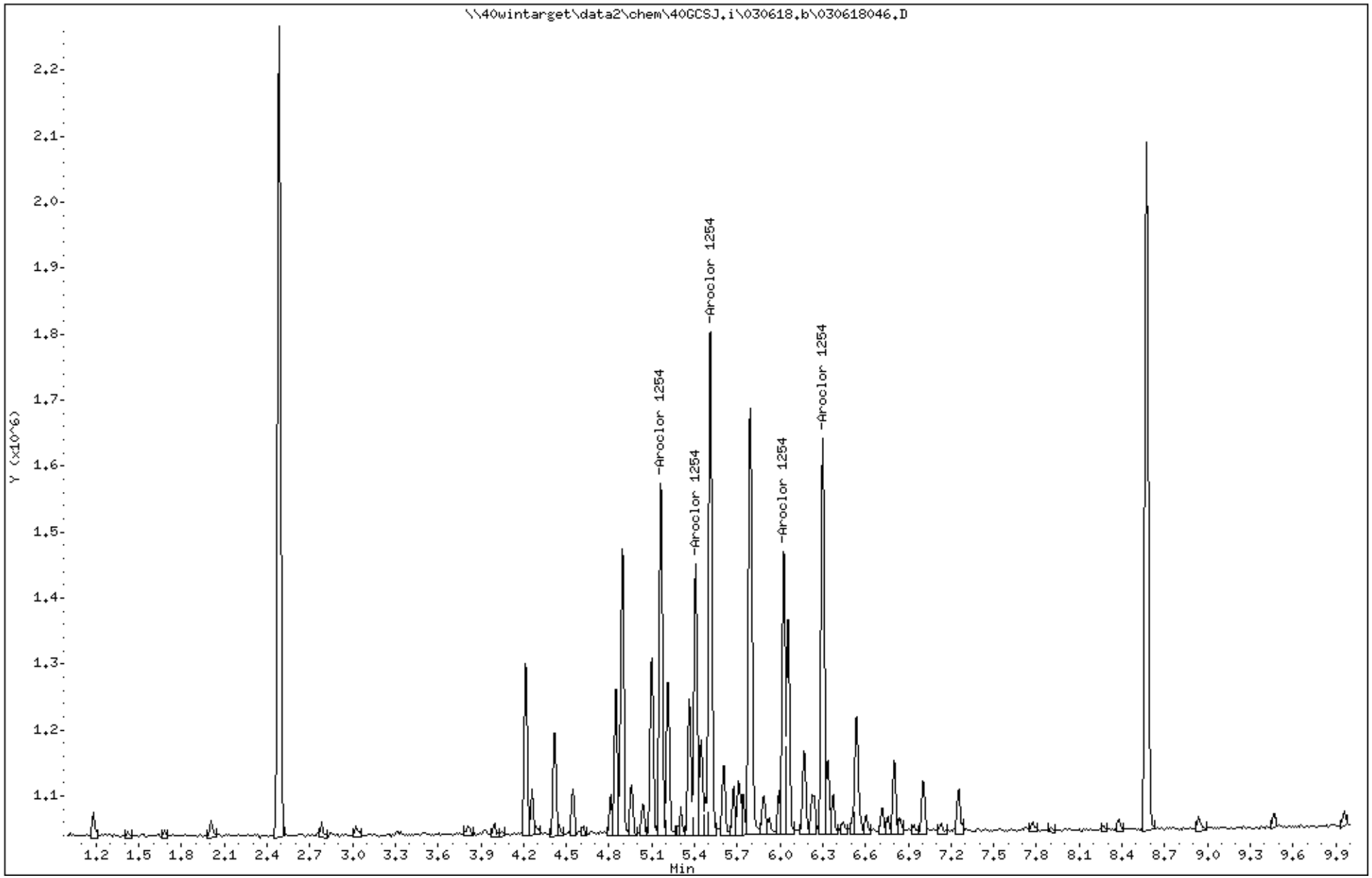
M - Compound response manually integrated.

Review Codes Legend

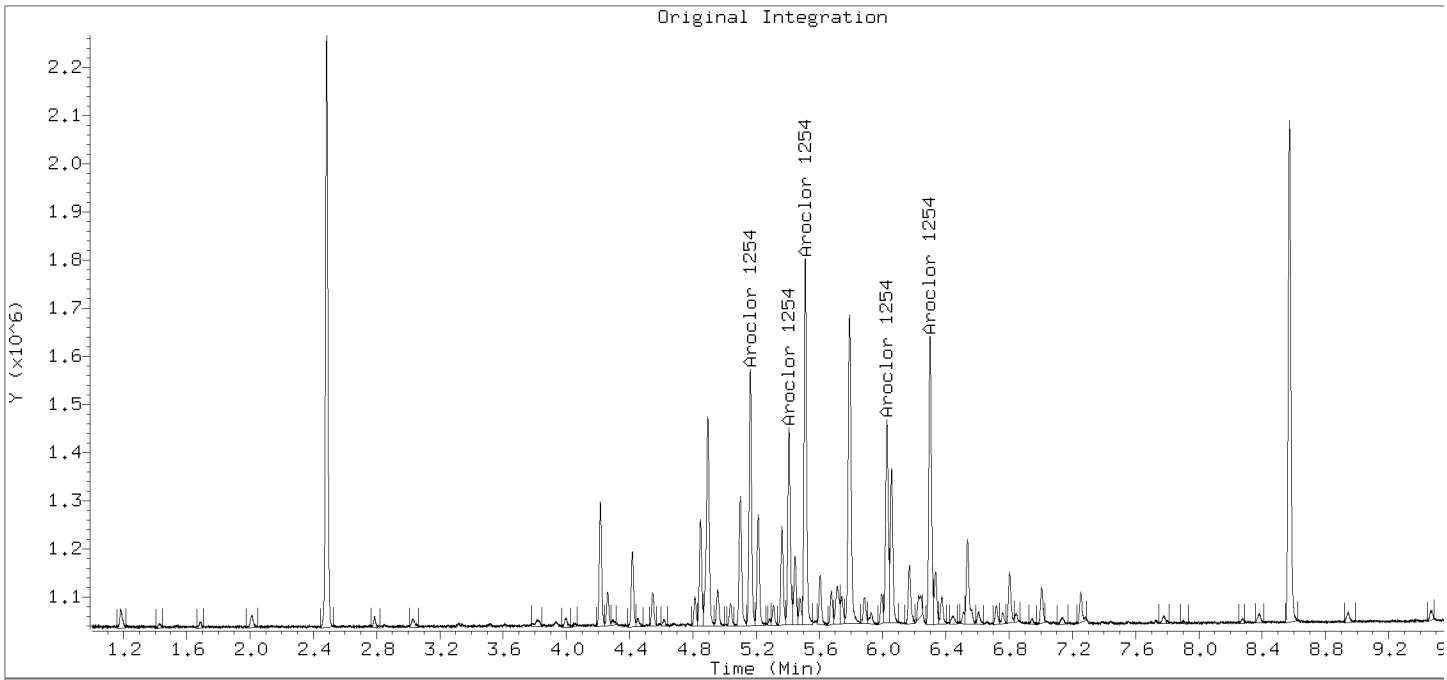
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

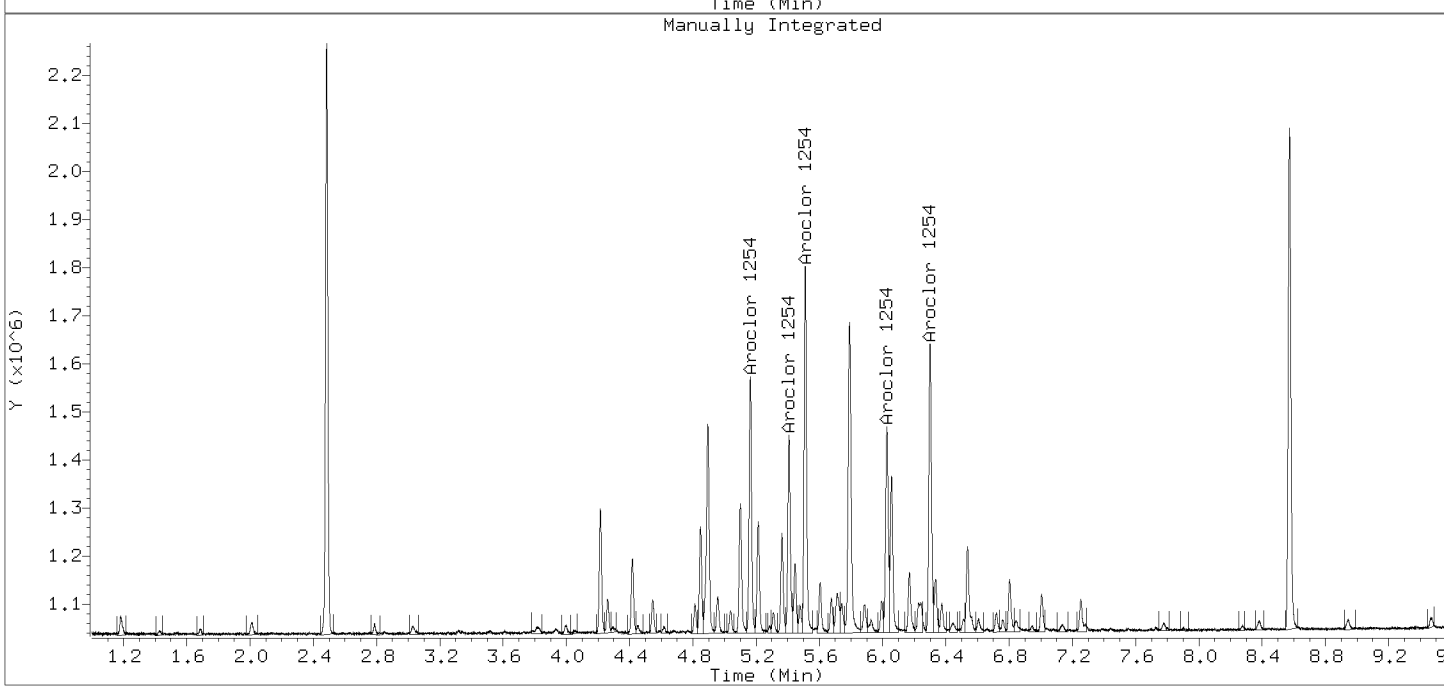
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618046.D
Date : 06-MAR-2018 16:57
Client ID: 1254-CAL1C
Sample Info: 1254-CAL1C, 188135:1

Instrument: 40GCSJ.i
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

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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

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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

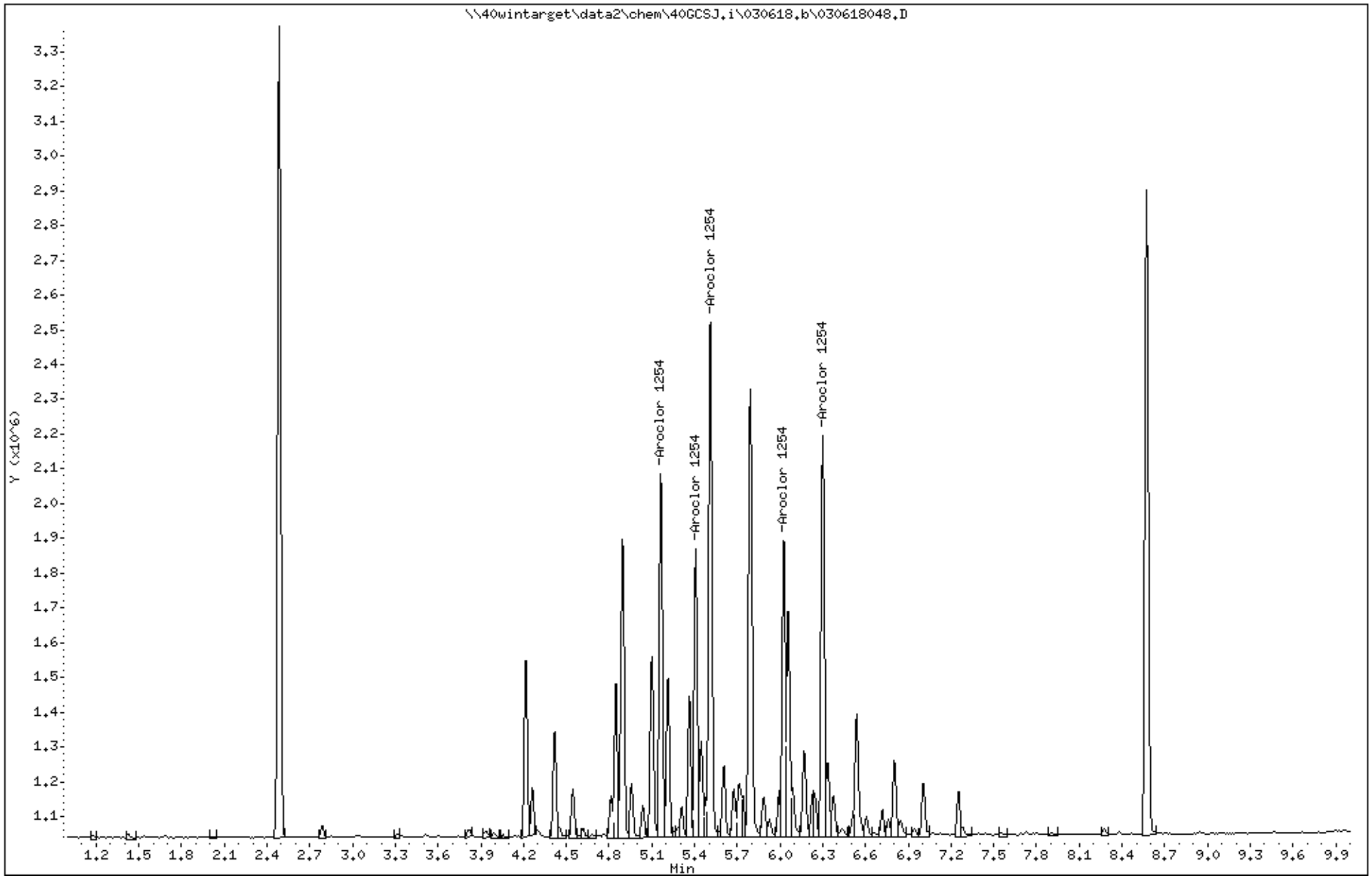
M - Compound response manually integrated.

Review Codes Legend

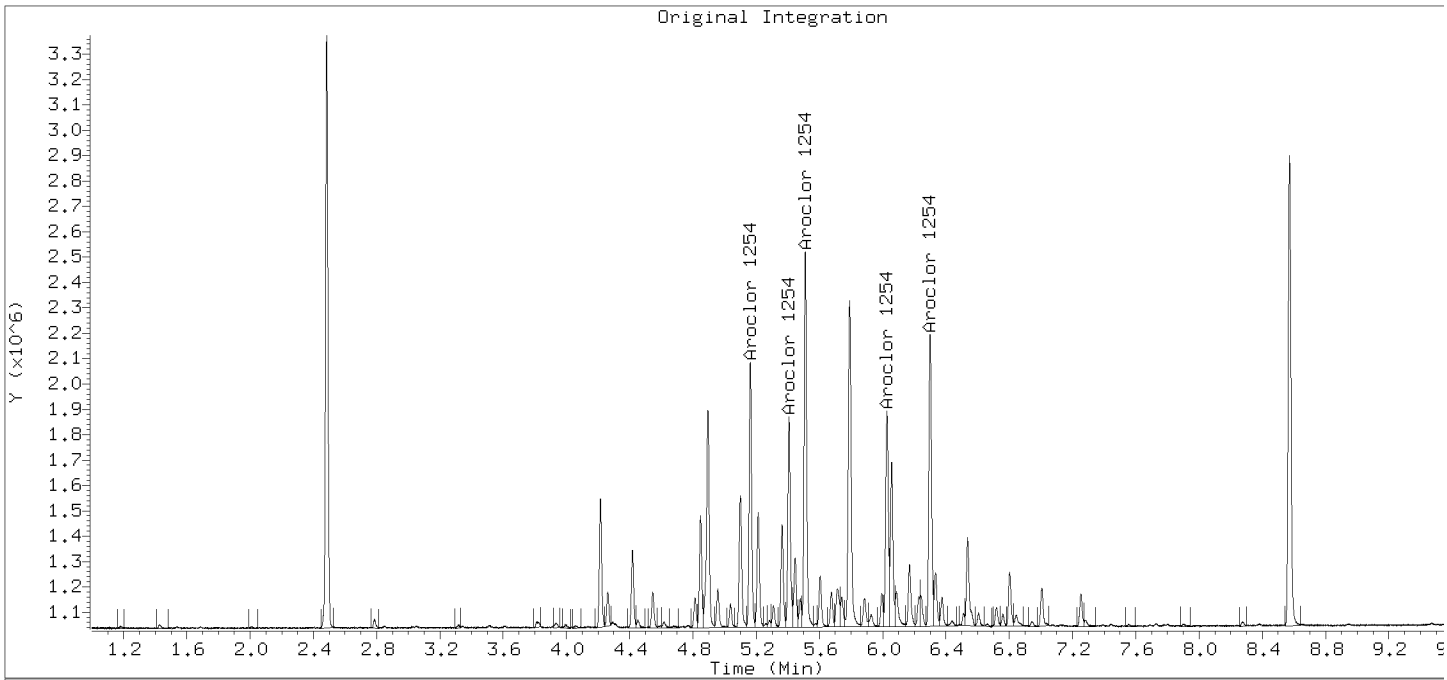
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

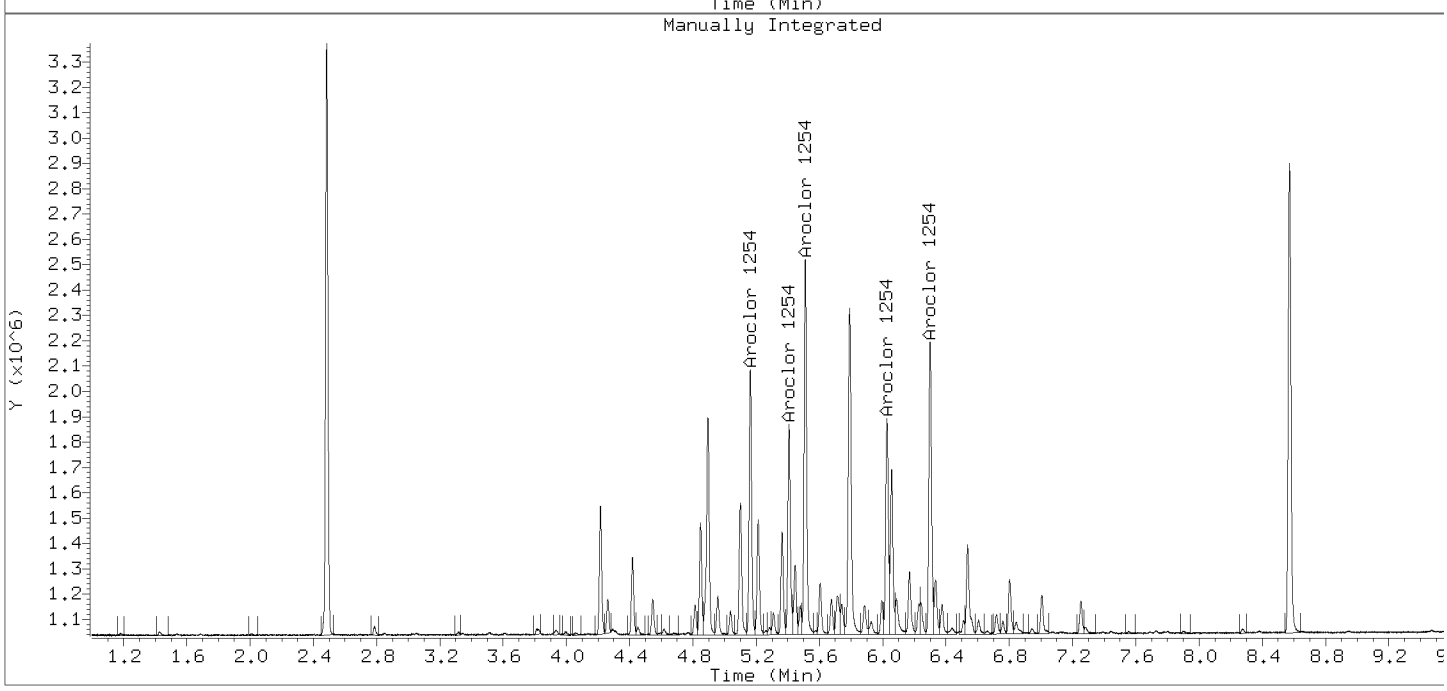
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618048.D
Date : 06-MAR-2018 17:13
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

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

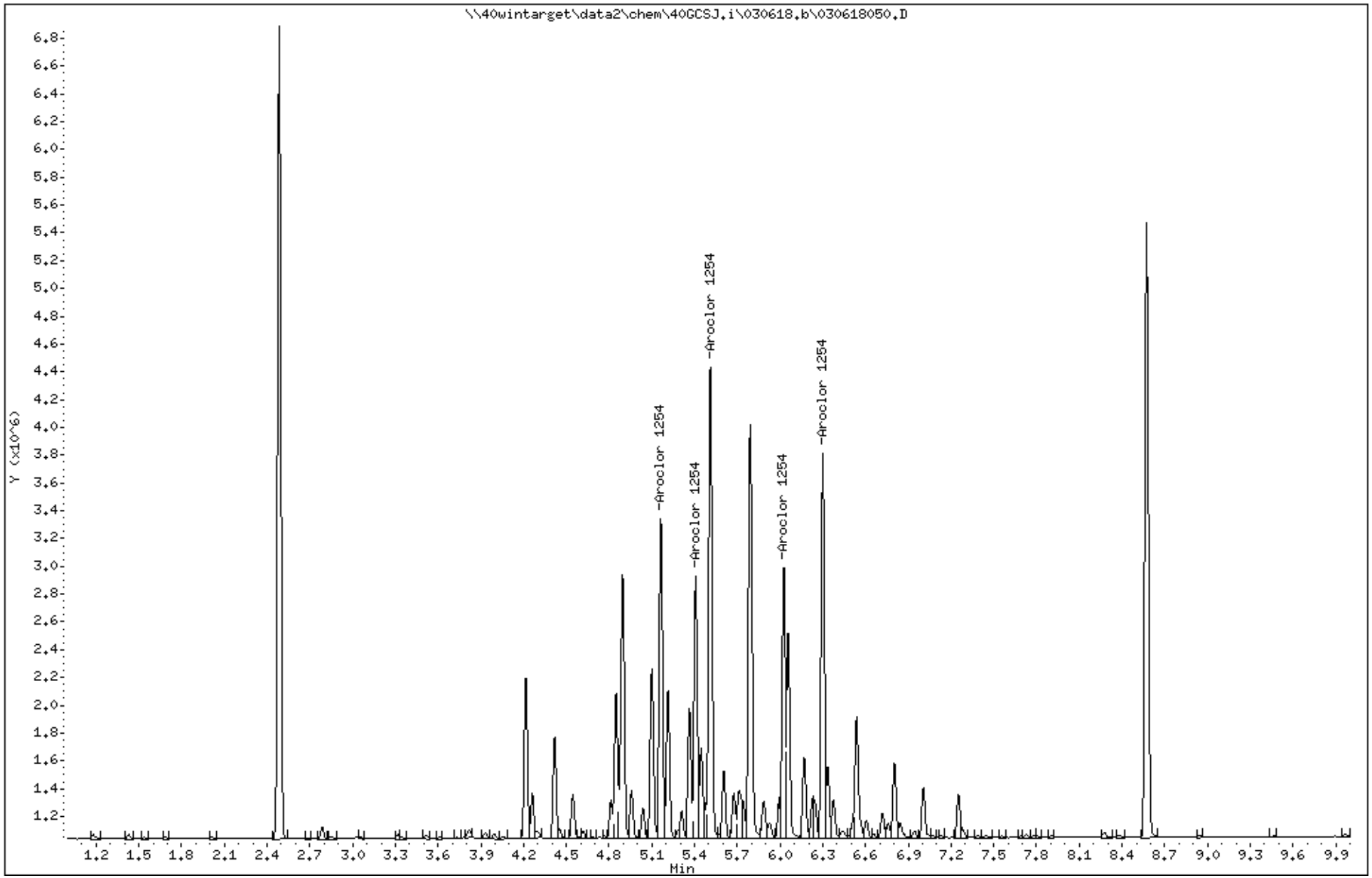
M - Compound response manually integrated.

Review Codes Legend

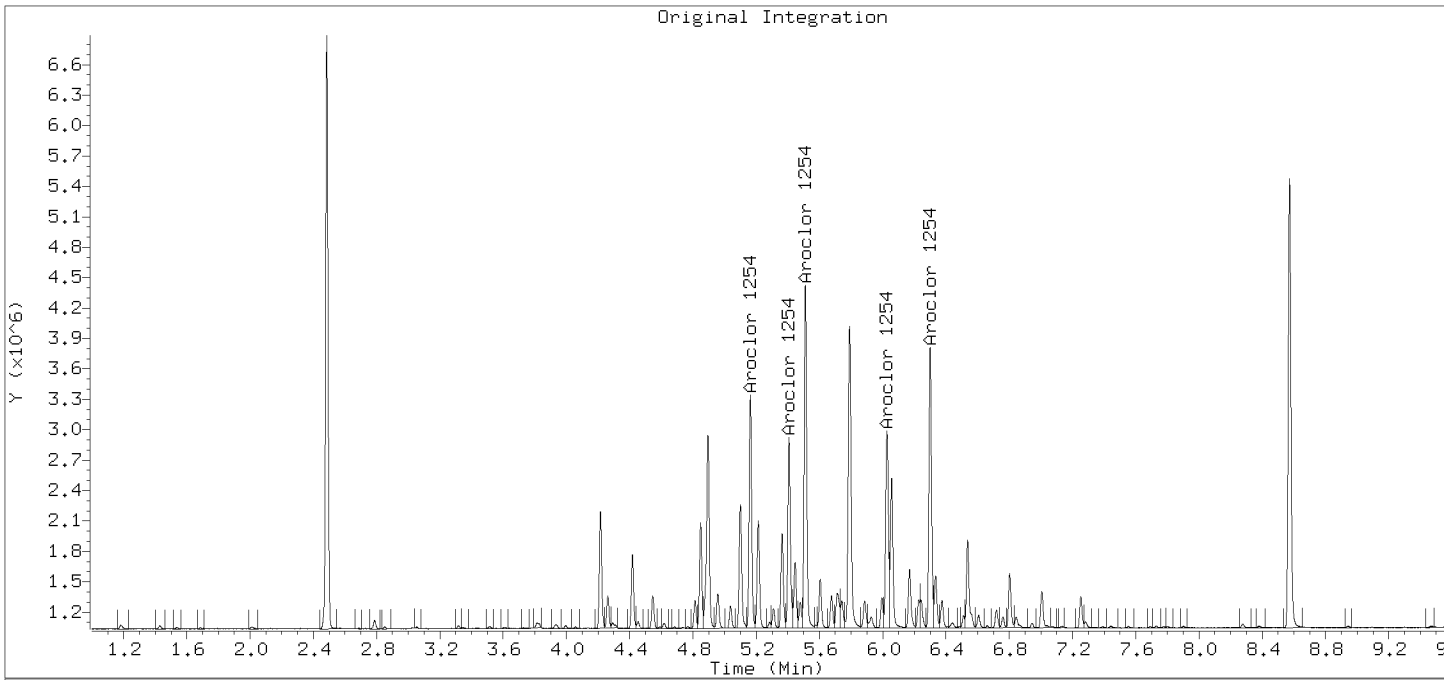
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

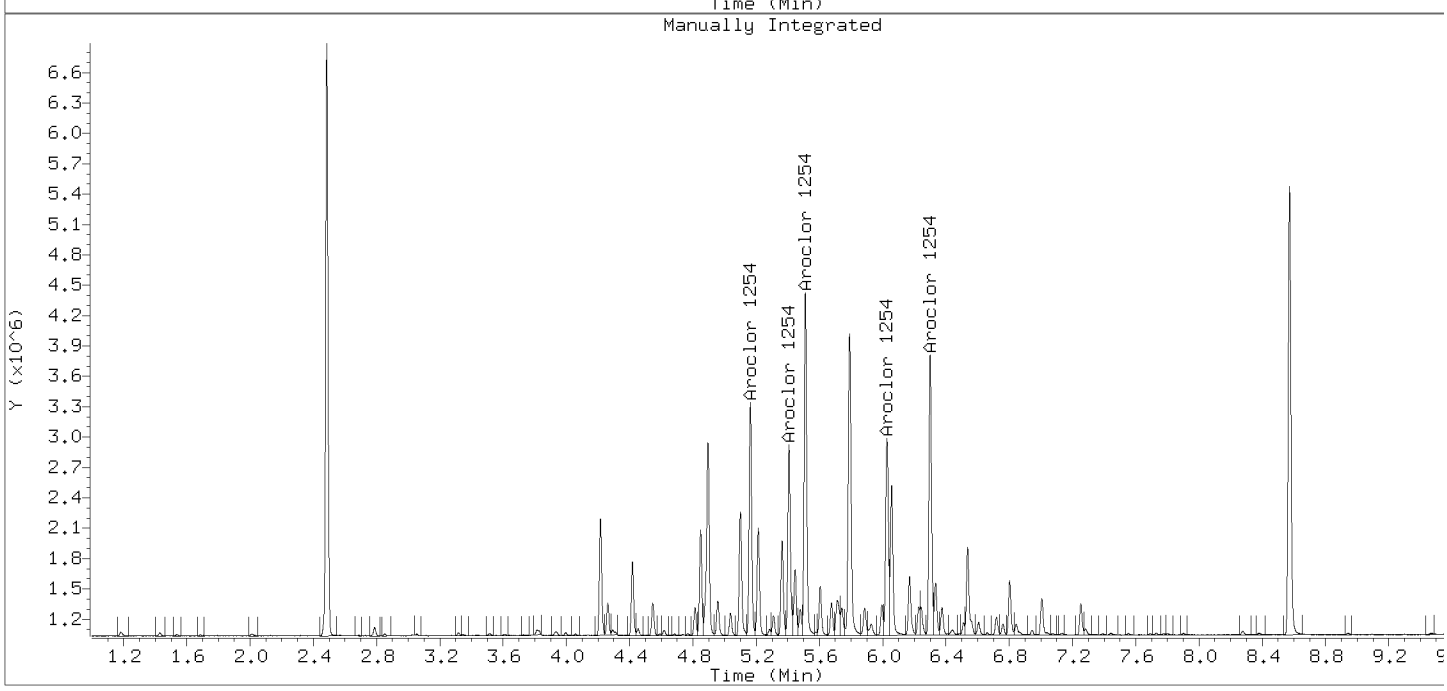
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618050.D
Date : 06-MAR-2018 17:30
Client ID: 1254-CAL3C
Sample Info: 1254-CAL3C, 185554:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:46

Client ID: 1254-CAL4C

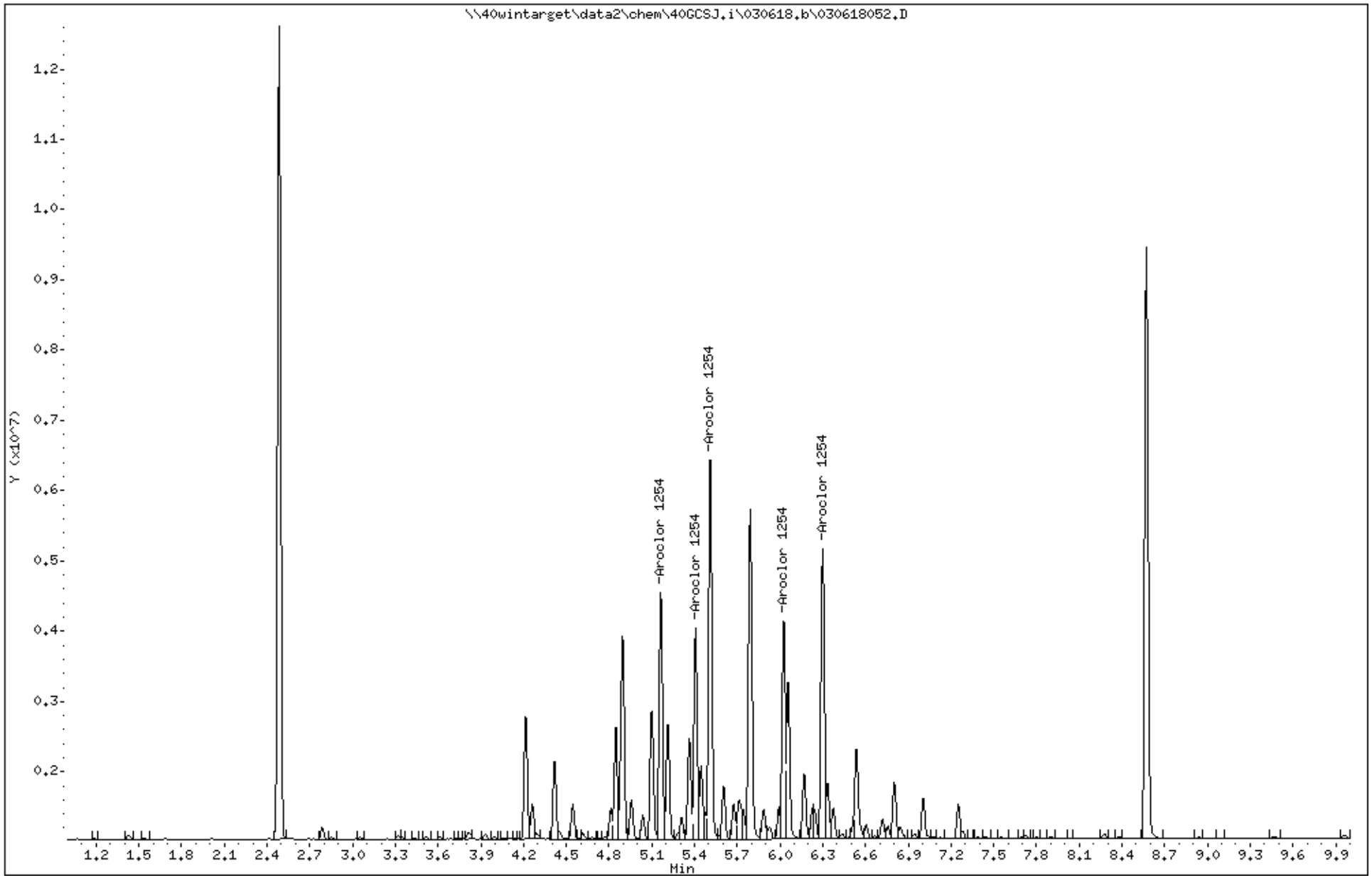
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

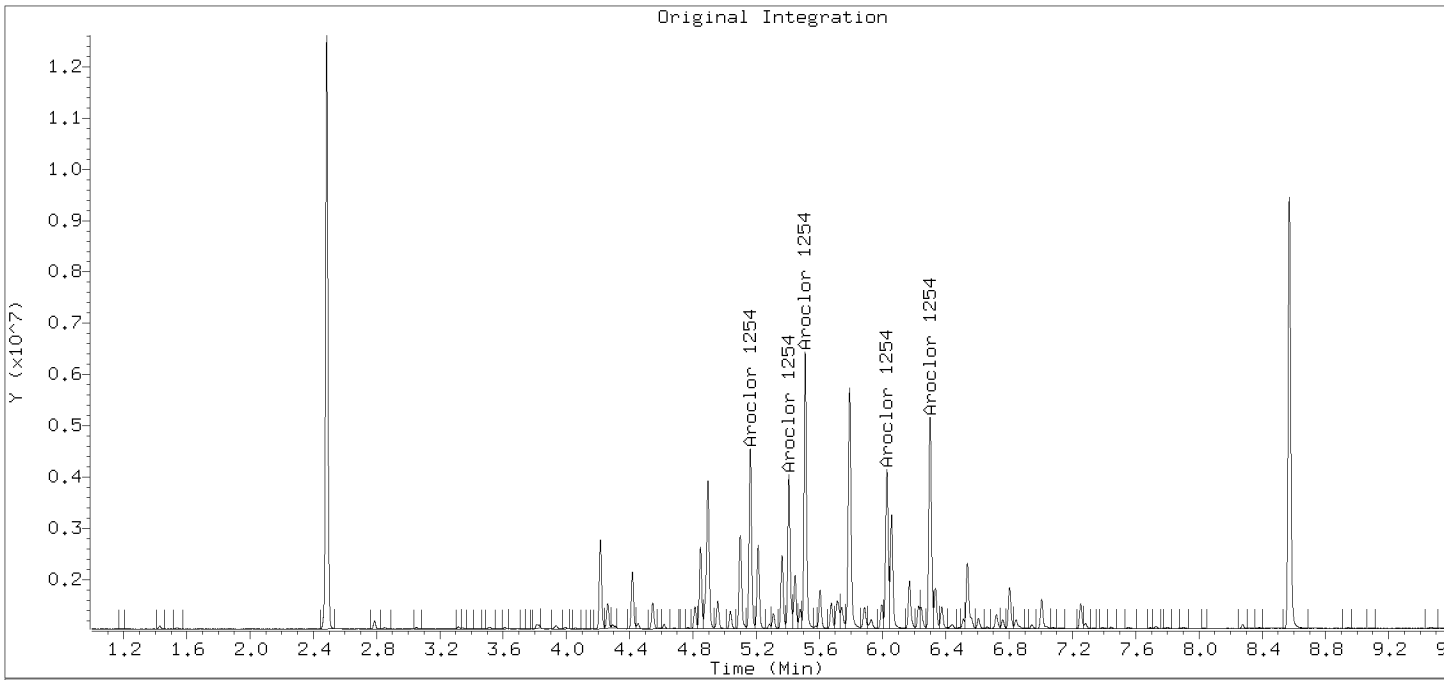
Operator: BLM

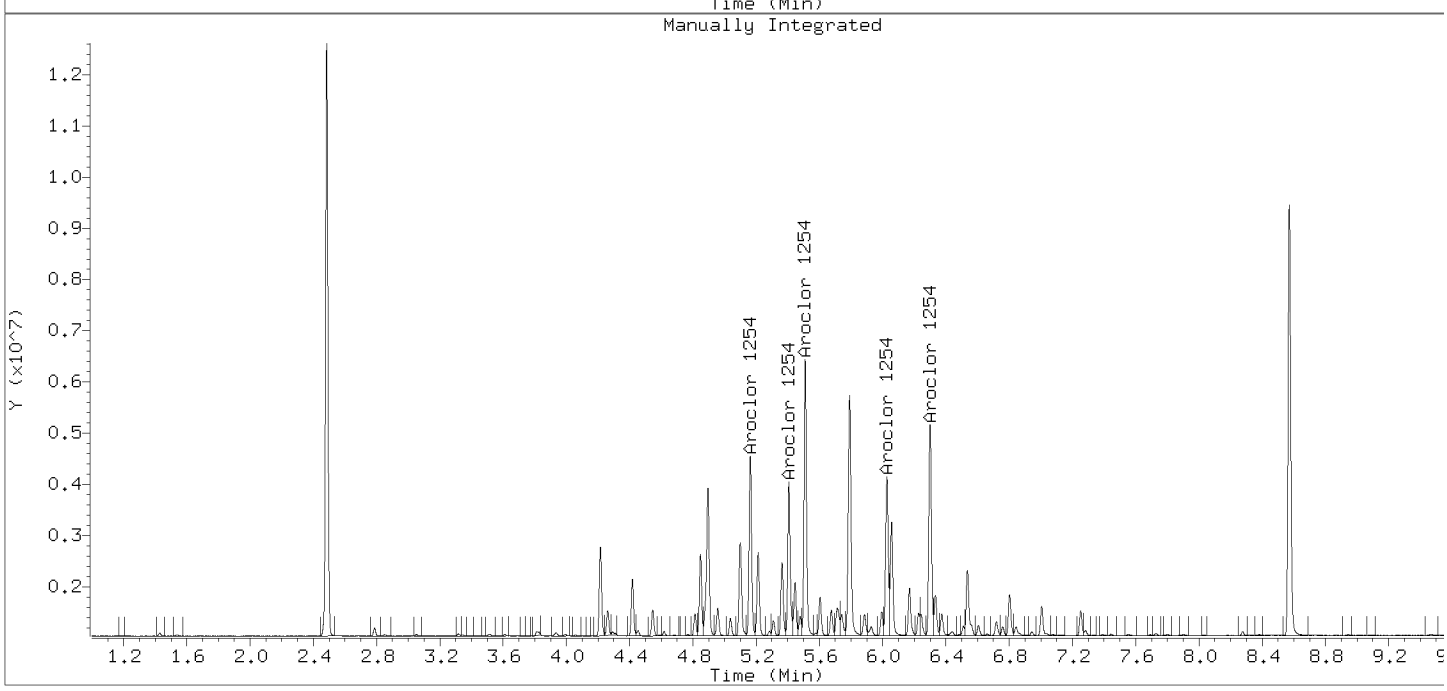
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

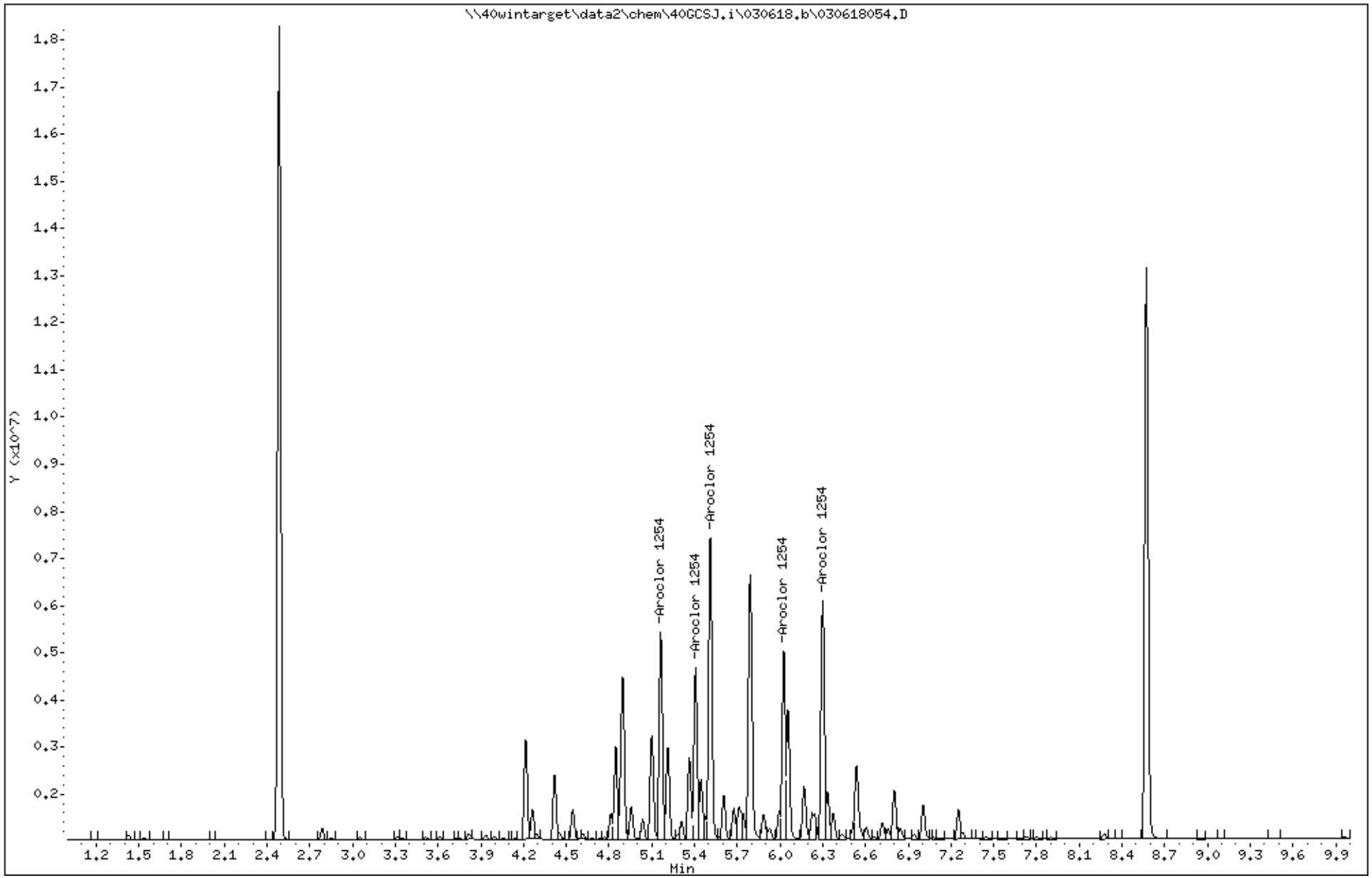
M - Compound response manually integrated.

Review Codes Legend

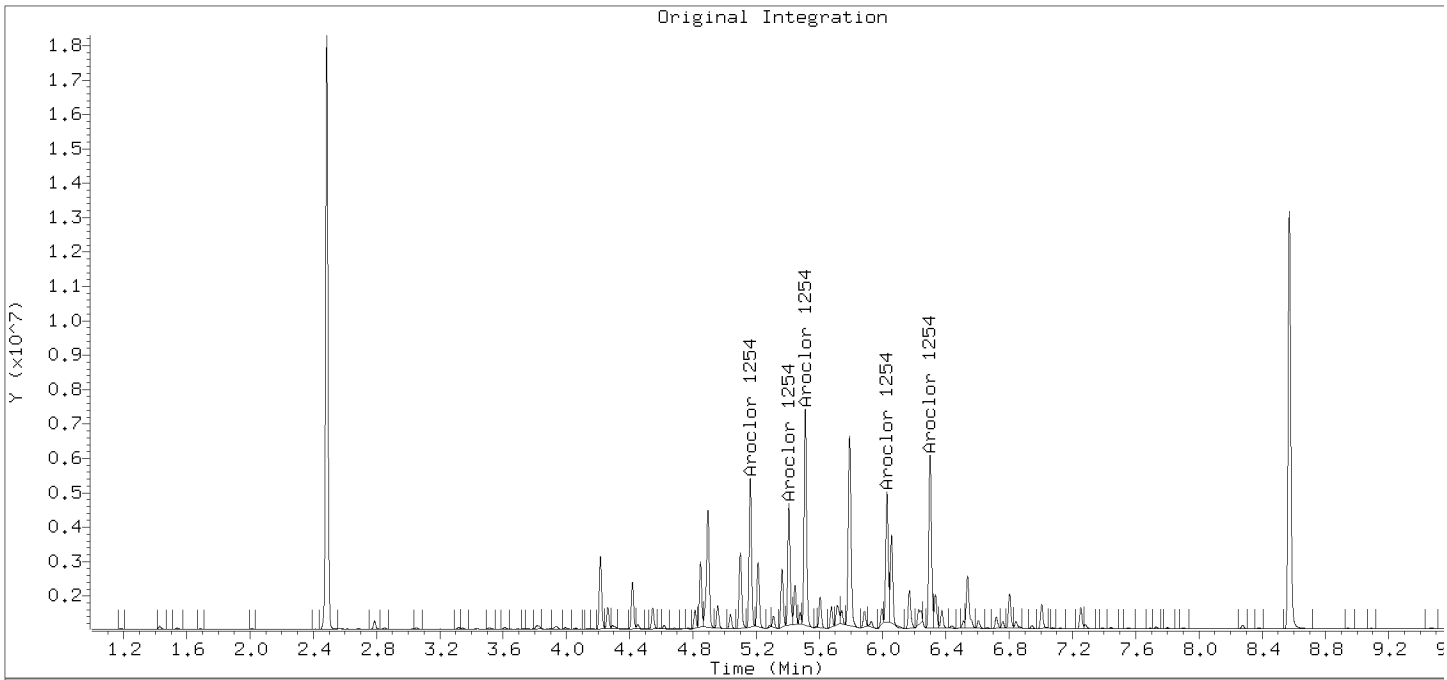
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

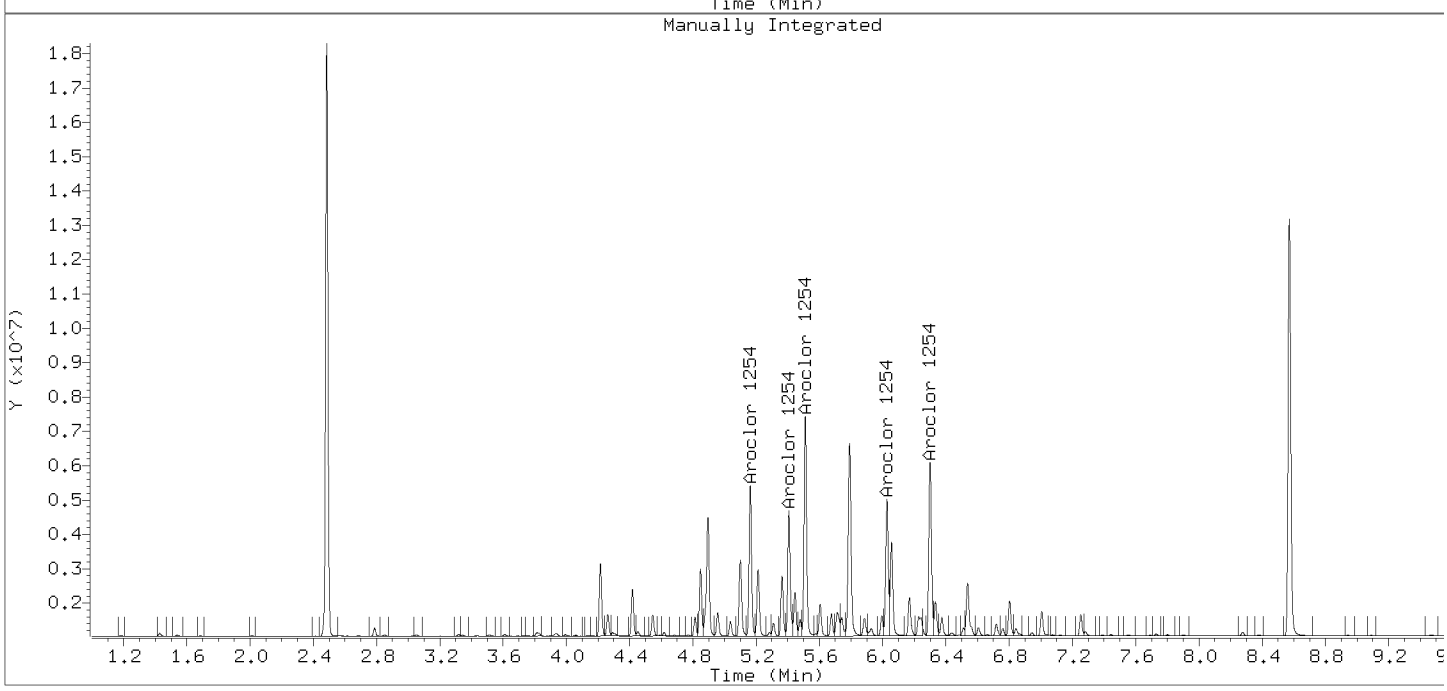
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Date : 06-MAR-2018 18:02
Client ID: 1254-CAL5C
Sample Info: 1254-CAL5C, 185556:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

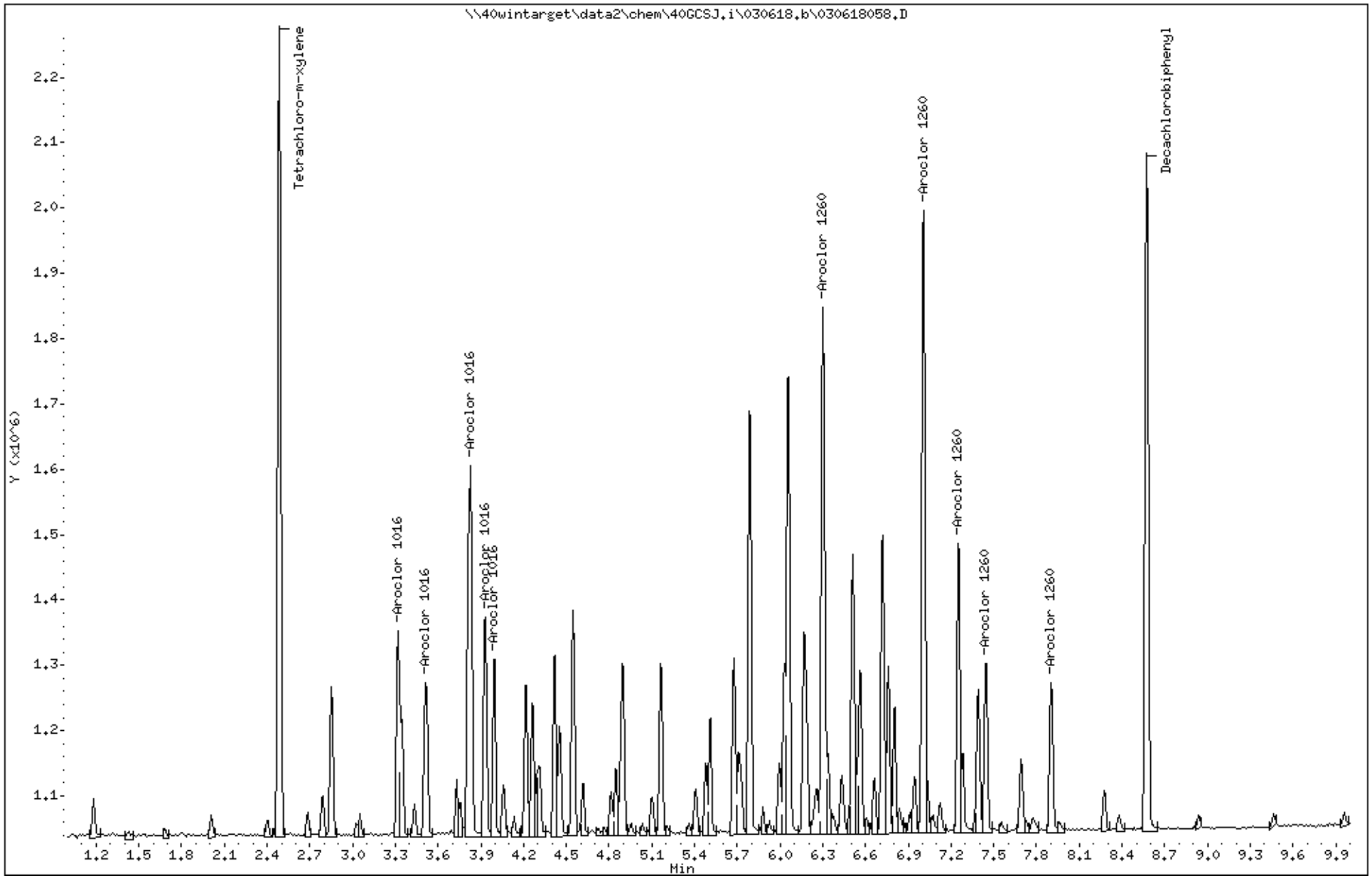
QC Flag Legend

Review Codes Legend

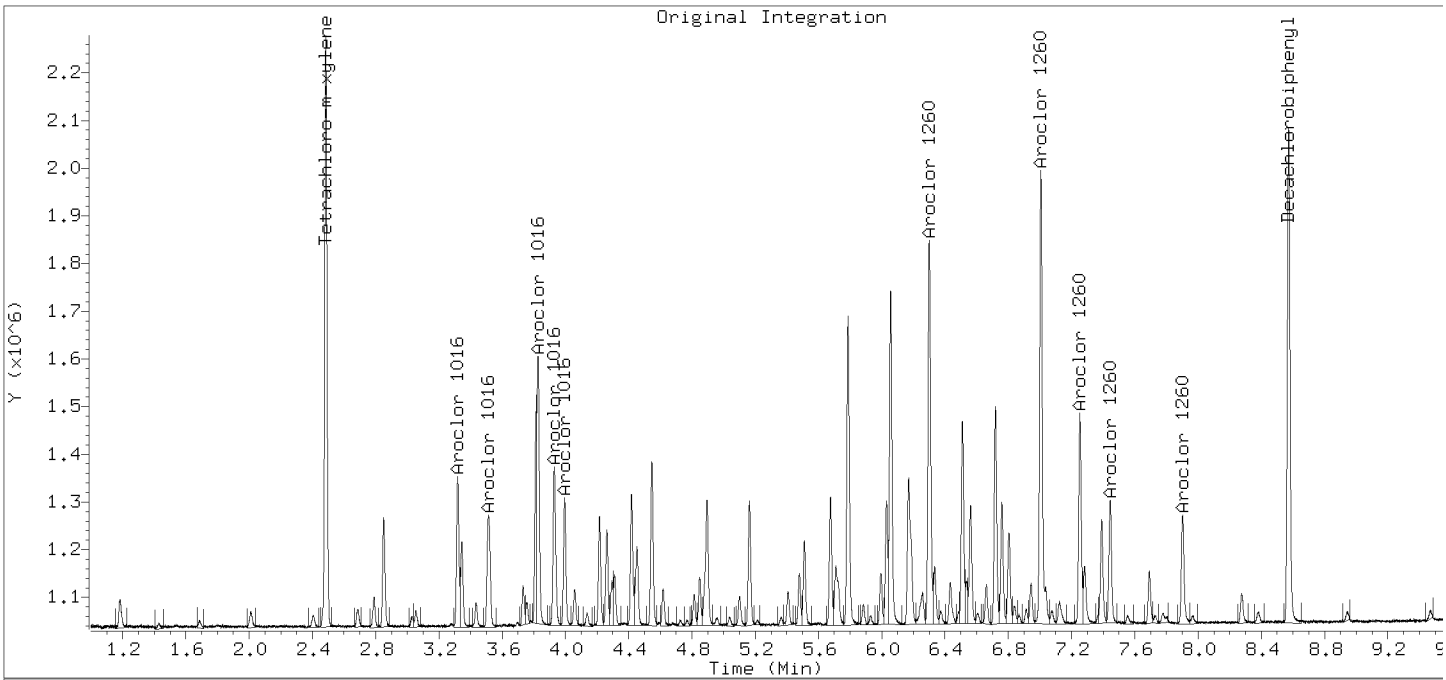
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

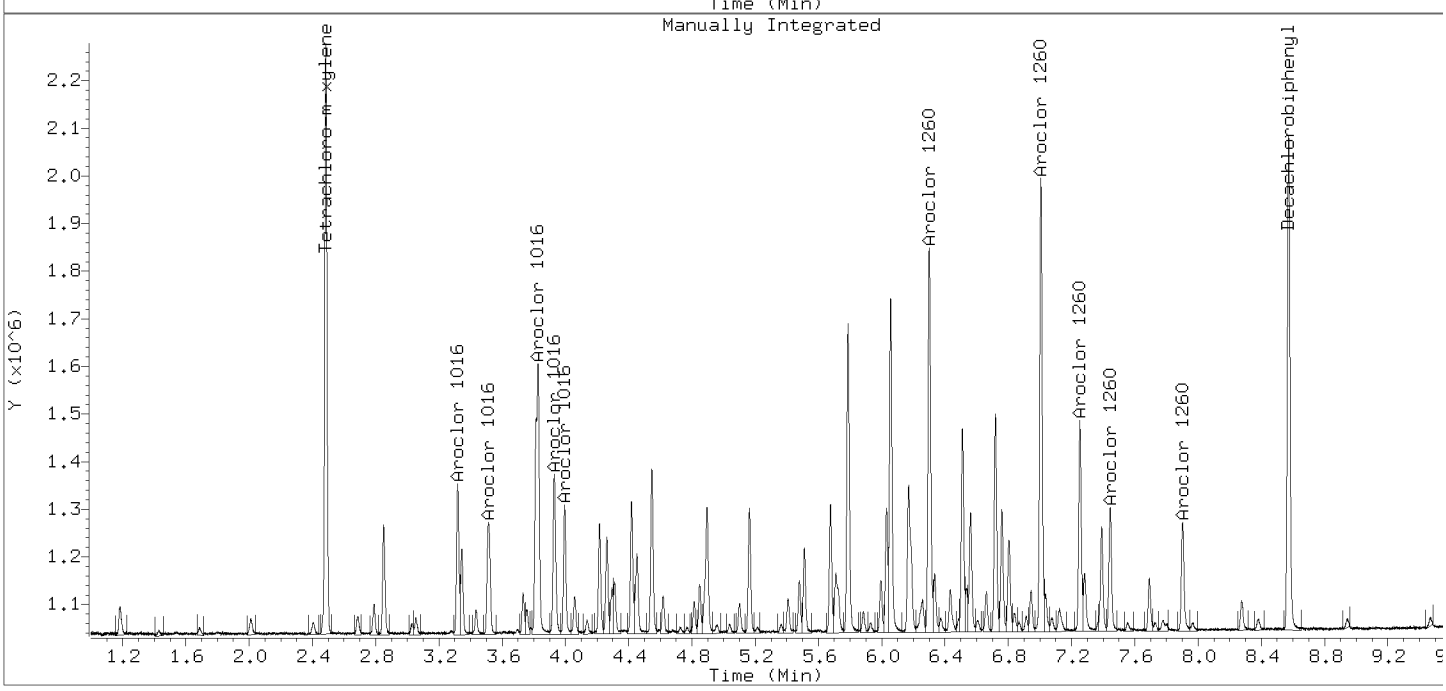
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618058.D
Date : 06-MAR-2018 18:34
Client ID: 1660-CAL1A
Sample Info: 1660-CAL1A, 188136:1

Instrument: 40GCSJ.i
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.

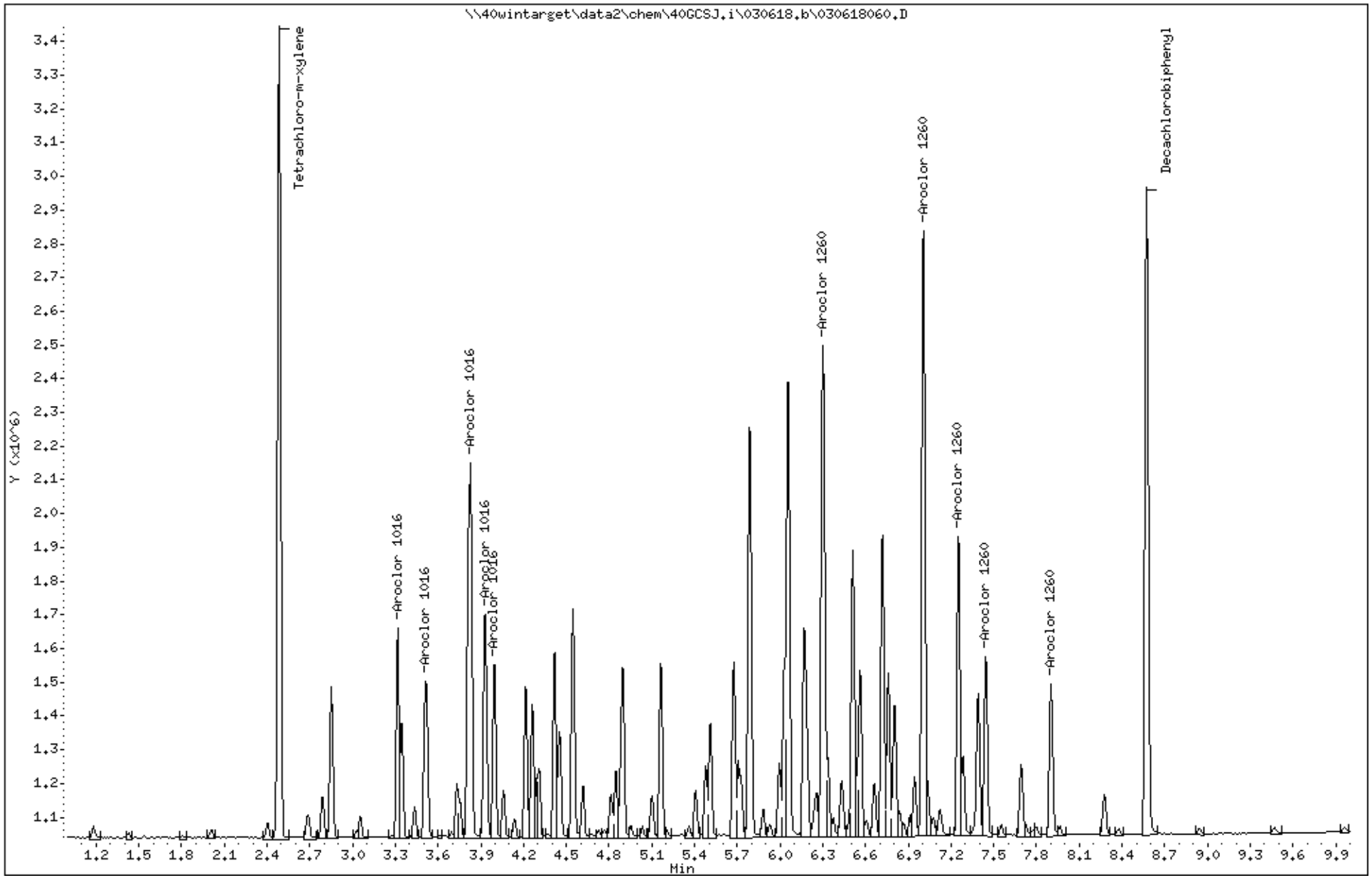
QC Flag Legend

Review Codes Legend

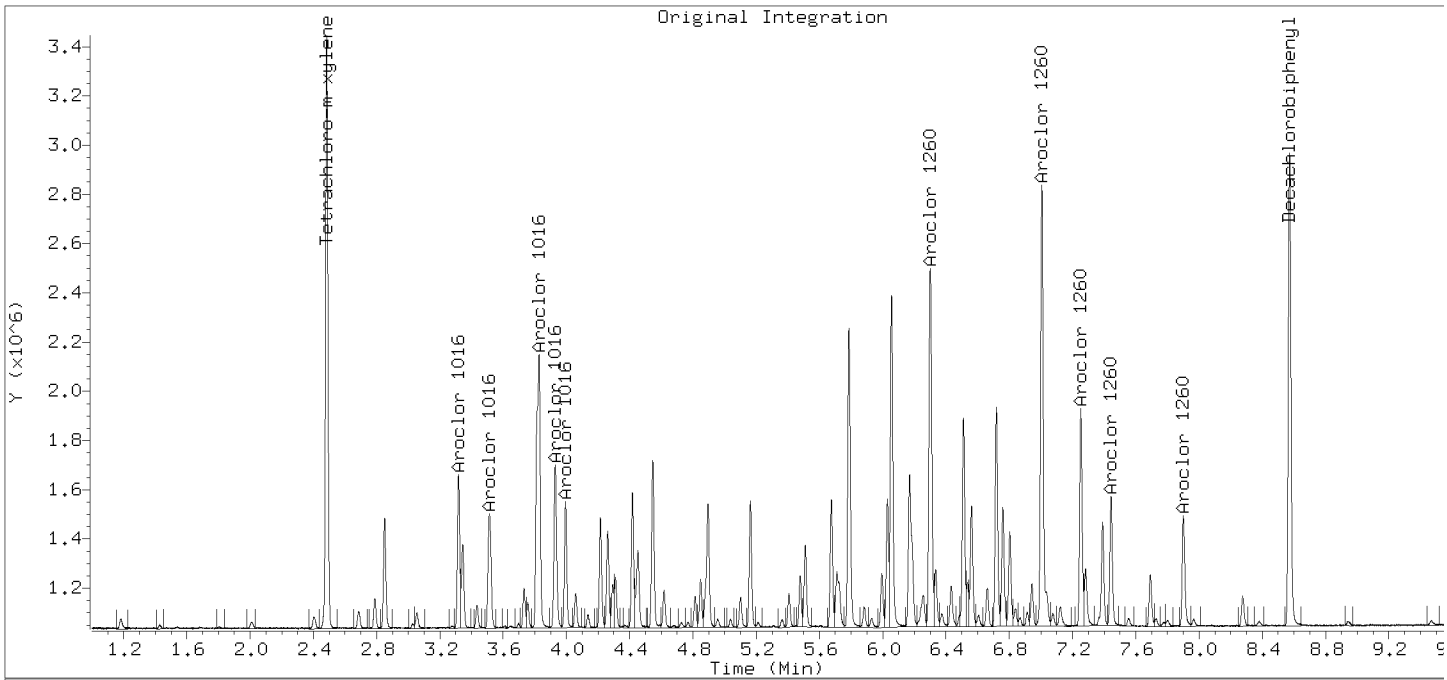
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

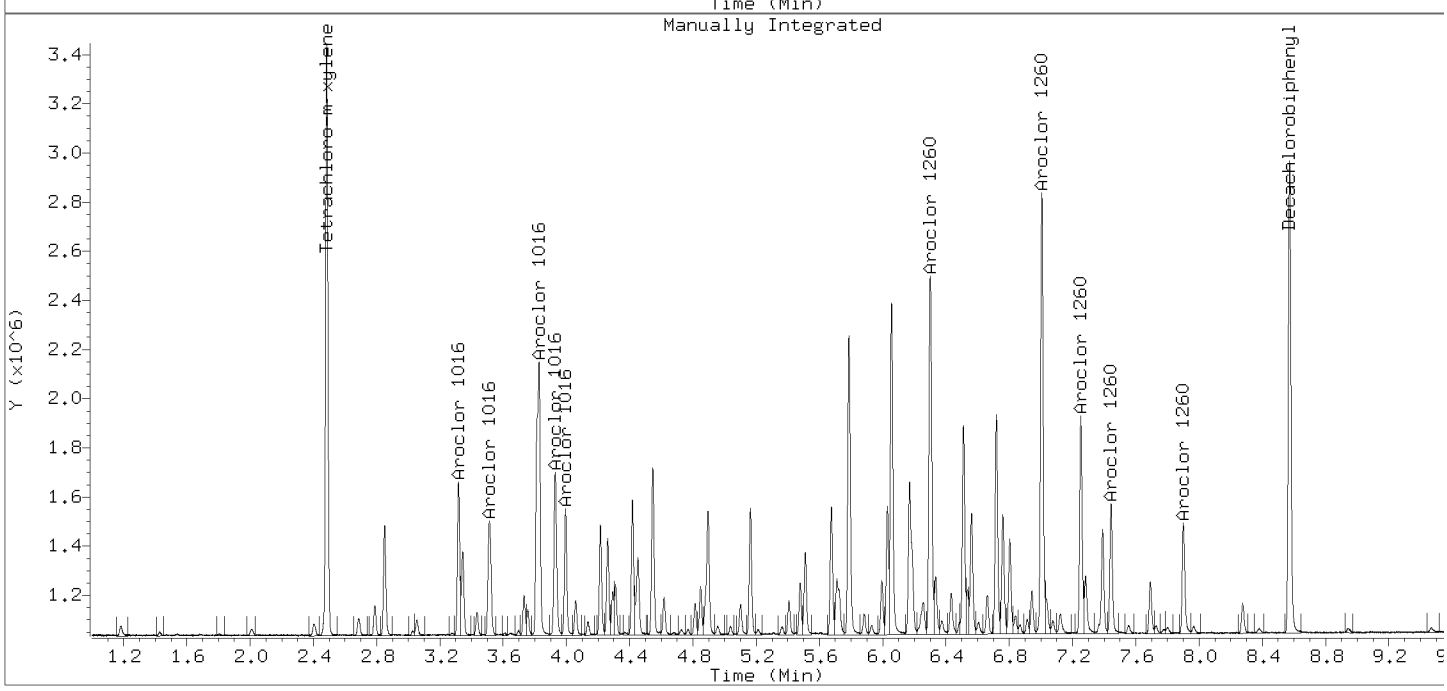
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Date : 06-MAR-2018 18:51
Client ID: 1660-CAL2A
Sample Info: 1660-CAL2A, 185558:1

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.

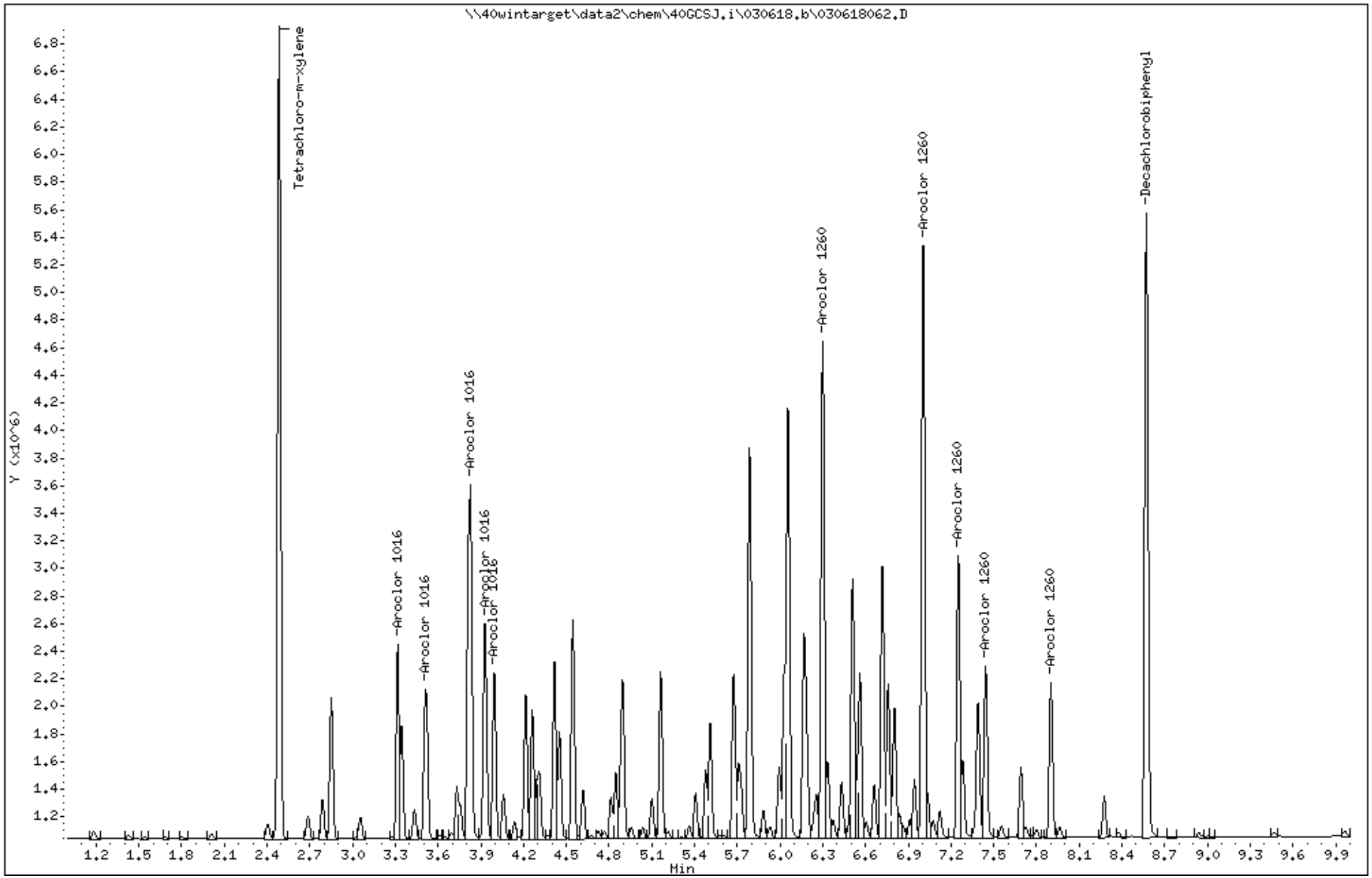
QC Flag Legend

Review Codes Legend

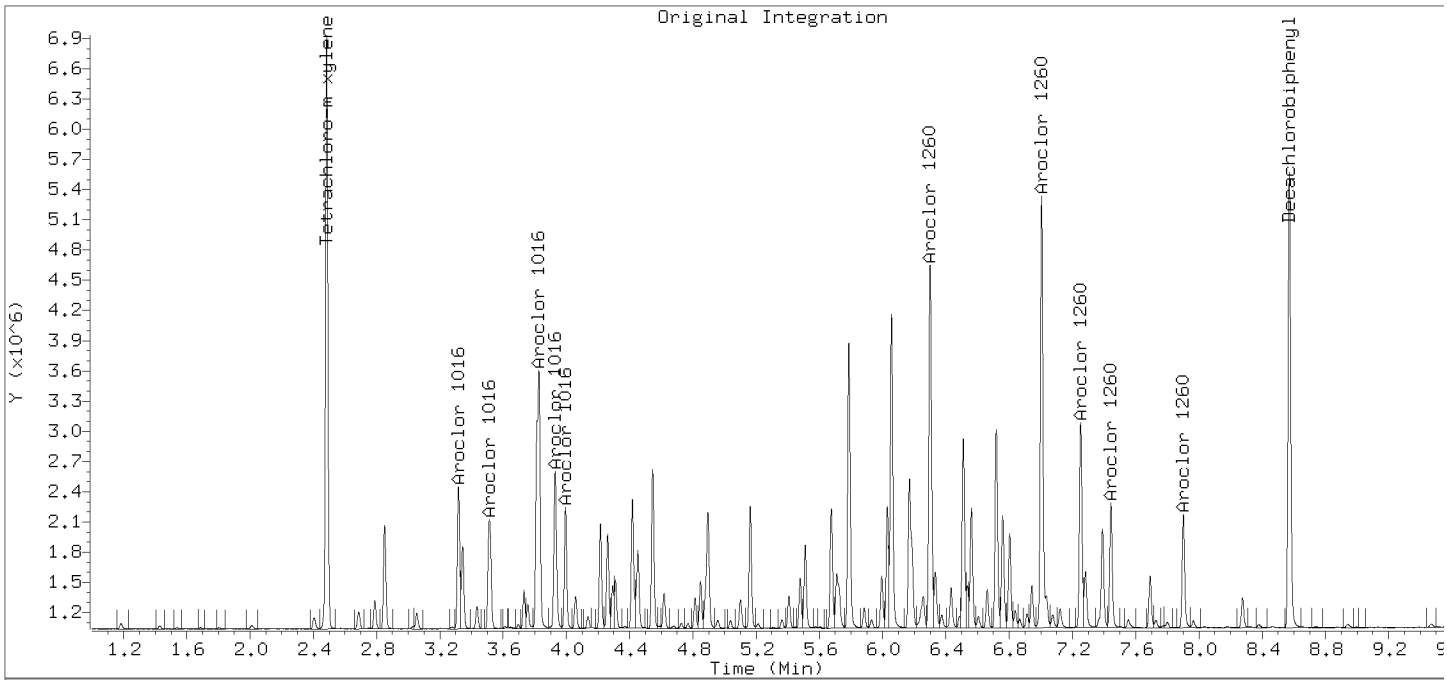
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

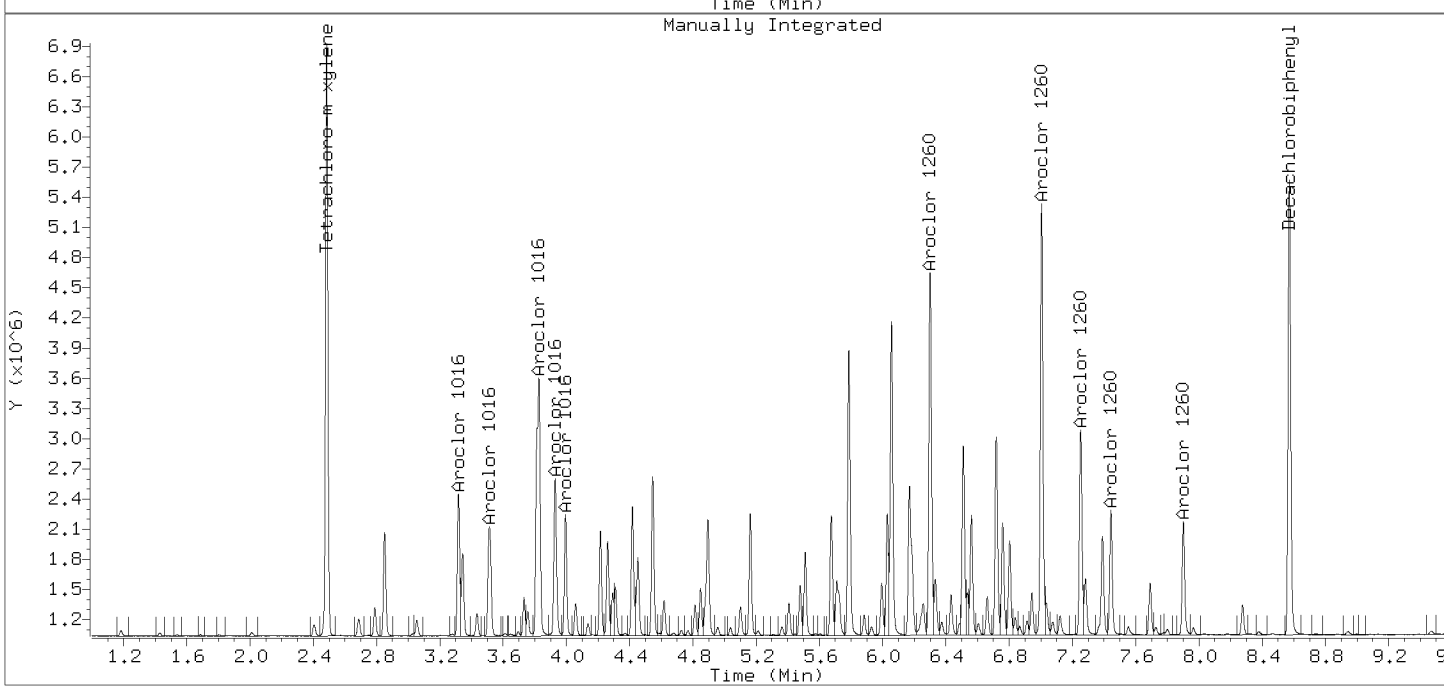
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

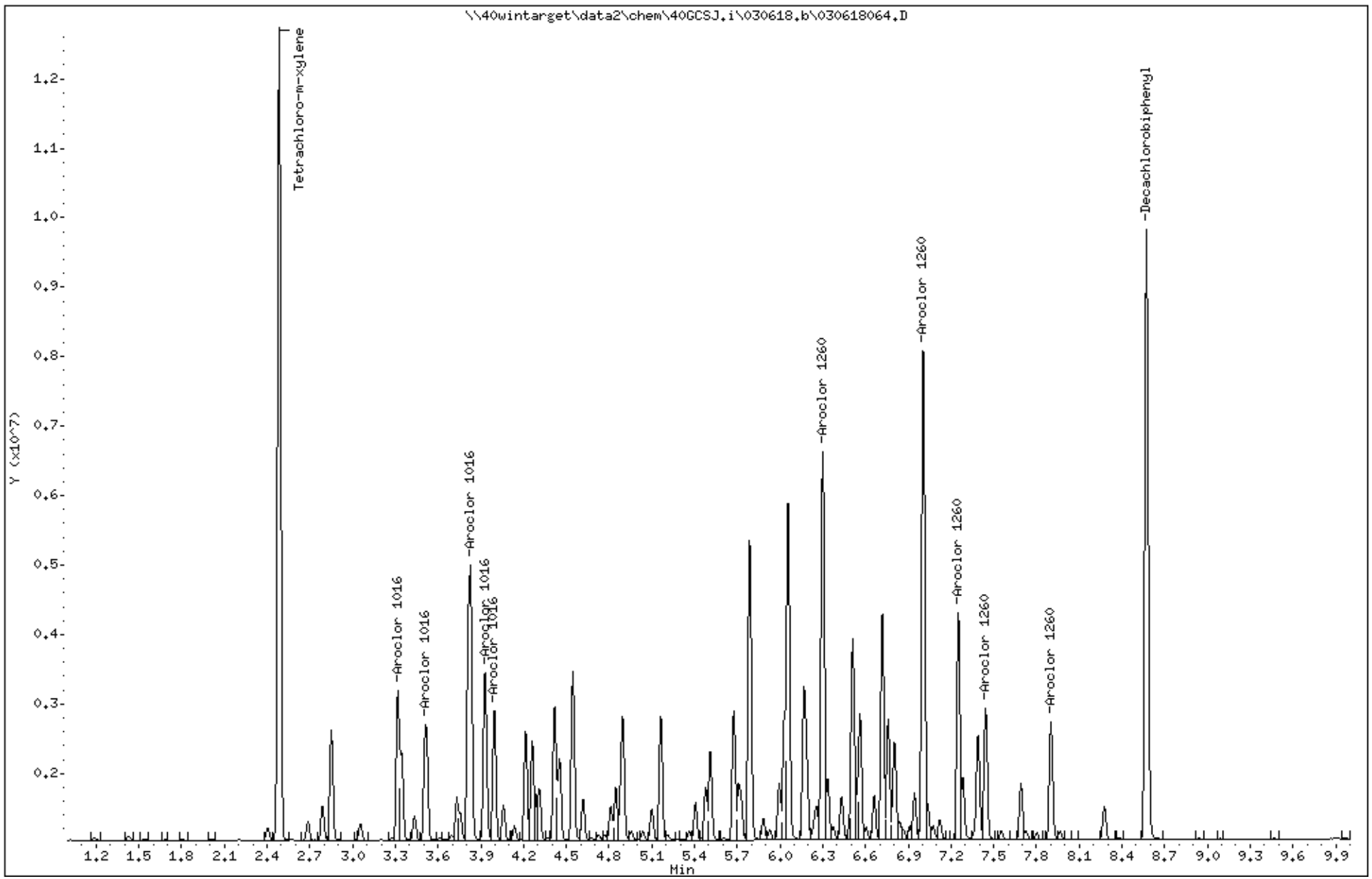
M - Compound response manually integrated.

Review Codes Legend

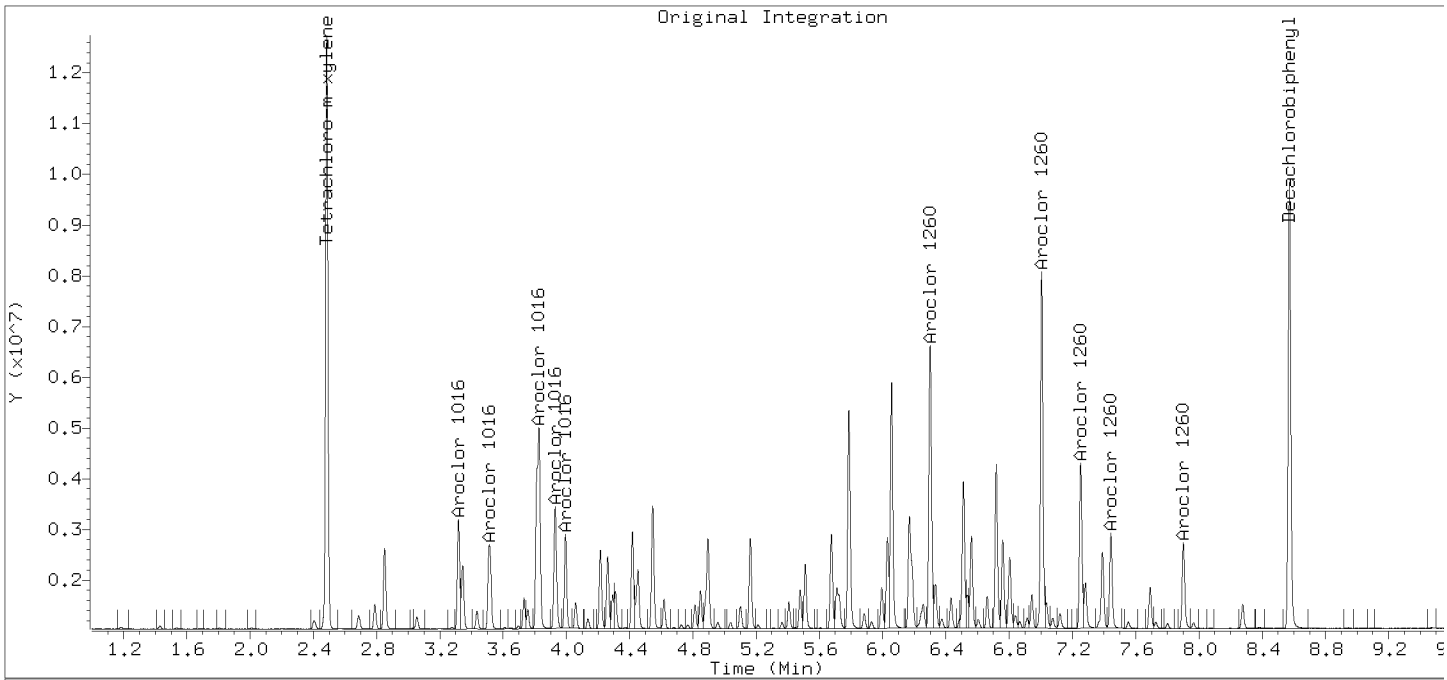
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

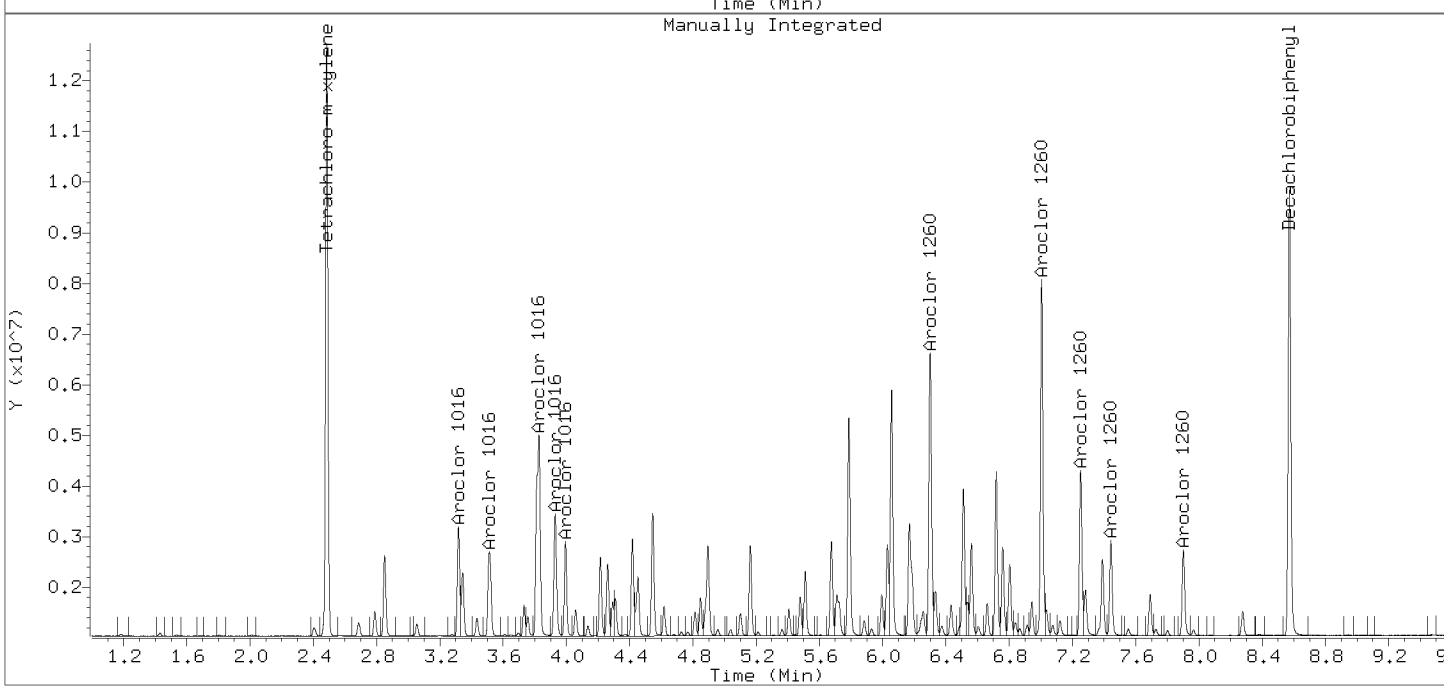
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618064.D
Date : 06-MAR-2018 19:23
Client ID: 1660-CAL4A
Sample Info: 1660-CAL4A, 185560:1

Instrument: 40GCSJ.i
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	

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D Page 3
Report Date: 22-Mar-2018 13:35

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

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

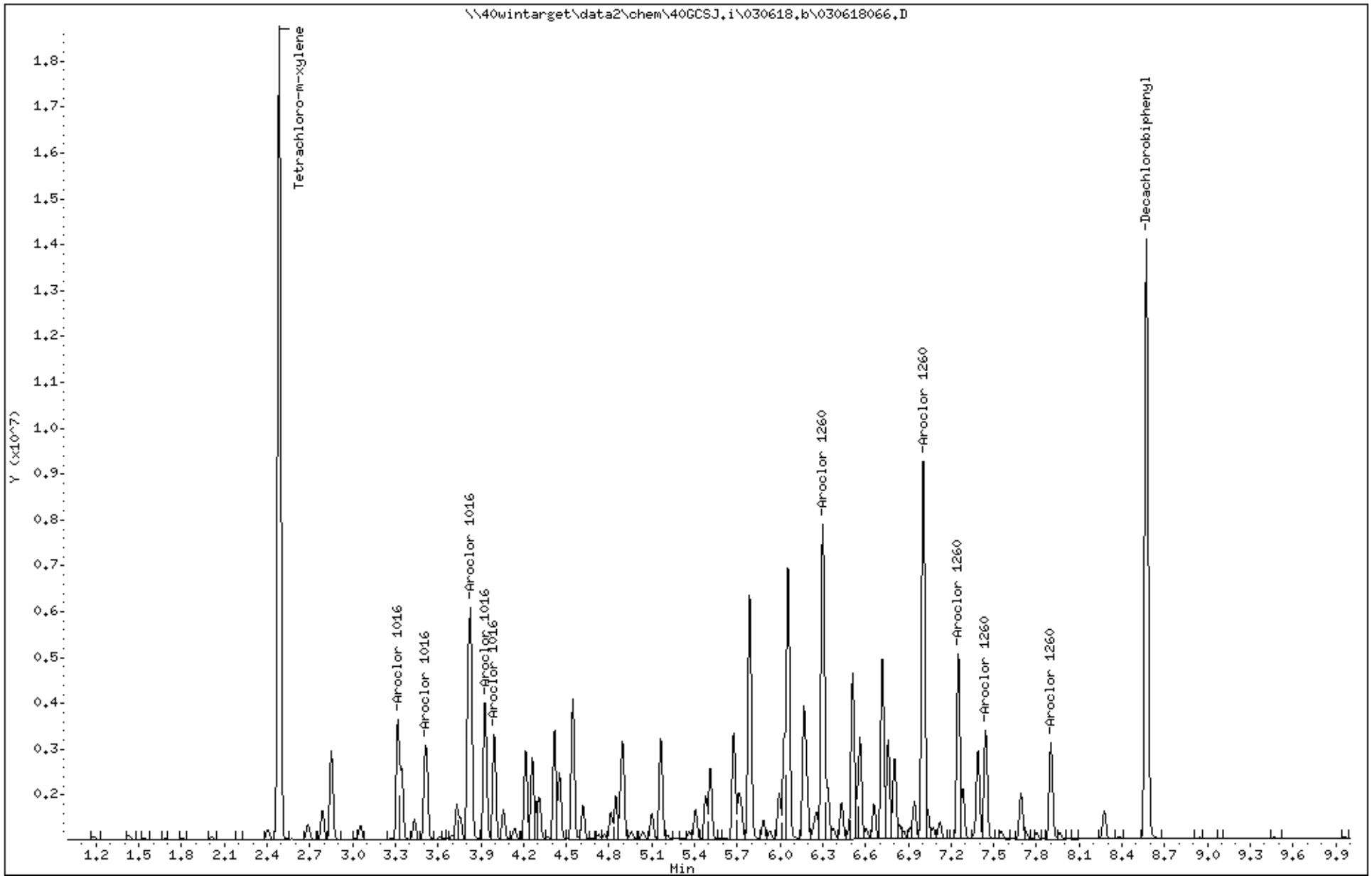
M - Compound response manually integrated.

Review Codes Legend

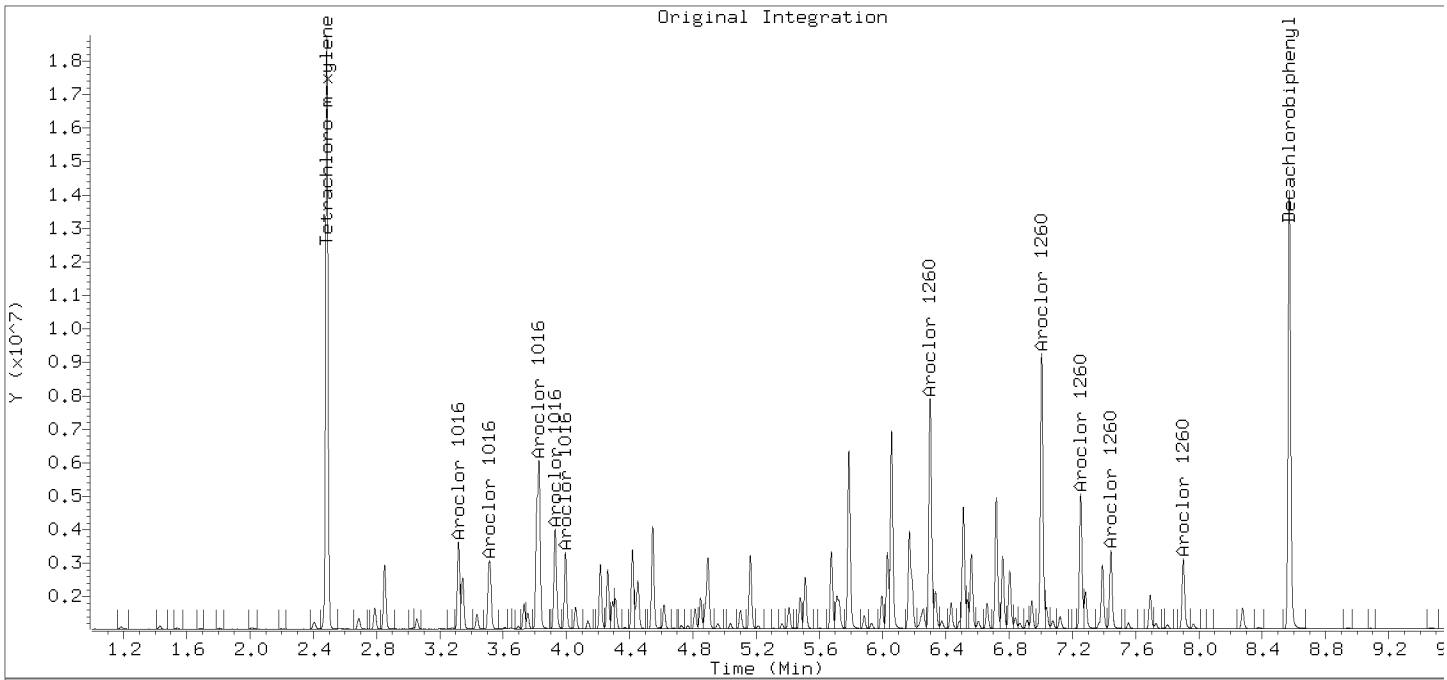
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

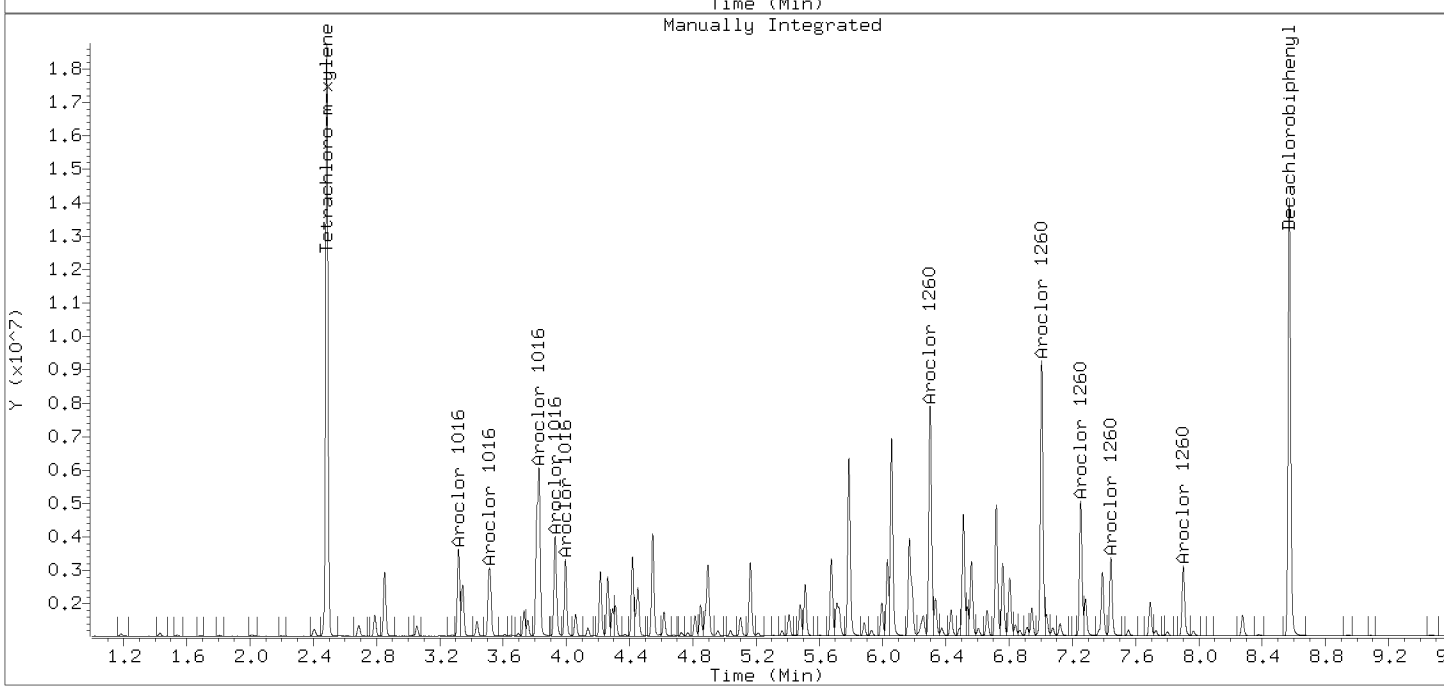
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D
Date : 06-MAR-2018 19:39
Client ID: 1660-CAL5A
Sample Info: 1660-CAL5A, 185561:1

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



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





Manually Integrated Compounds

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

PCB Low Level Calibration % Difference Check

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

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

SAMPLE NO.

10757904ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40157822

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.: 40157822

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.: 40157822

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.: 40157822

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.: 40157822

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.

10862661CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/03/2018 Time: 15:01

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

Lab File ID: 040318.B\040318004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157822

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	3201068.00	3.9028
Aroclor 1016	2	Averaged	3.514	3.478	3.546	3099002.40	3213670.00	3.7001
Aroclor 1016	3	Averaged	3.826	3.792	3.86	8861786.20	9028538.00	1.8817
Aroclor 1016	4	Averaged	3.929	3.895	3.963	3780223.45	3862206.00	2.1687
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2596426.00	-0.2659
Aroclor 1260	1	Averaged	6.299	6.266	6.334	8862352.50	9040592.00	2.0112
Aroclor 1260	2	Averaged	7.004	6.972	7.04	10014373.3	10246752.0	2.3205
Aroclor 1260	3	Averaged	7.251	7.217	7.285	4779803.15	4876322.00	2.0193
Aroclor 1260	4	Averaged	7.441	7.409	7.477	2915110.60	3050982.00	4.6609
Aroclor 1260	5	Averaged	7.9	7.867	7.935	2638735.95	2694334.00	2.1070
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	114158140.	4.1969
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	127438280.	3.3604

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

SAMPLE NO.

10862662CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/03/2018 Time: 18:11

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

Lab File ID: 040318.B\040318016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157822

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	1075366.00	3.2758
Aroclor 1221	2	Averaged	2.408	2.373	2.441	547842.900	567032.000	3.5027
Aroclor 1221	3	Averaged	2.688	2.654	2.722	1383336.70	1463202.00	5.7734
Aroclor 1221	4	Averaged	2.788	2.755	2.823	1105769.55	1146626.00	3.6948
Aroclor 1221	5	Averaged	2.851	2.817	2.885	3255397.65	3519598.00	8.1158
Decachlorobiphenyl (S)		Averaged	8.572	8.537	8.605	109559990.	111571480.	1.8360
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	126502800.	2.6016

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

SAMPLE NO.

10874369CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/03/2018 Time: 21:21

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

Lab File ID: 040318.B\040318028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157822

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.851	2.817	2.885	2500024.00	2726180.00	9.0462
Aroclor 1232	2	Averaged	3.512	3.479	3.547	1339782.00	1424482.00	6.3219
Aroclor 1232	3	Averaged	3.825	3.793	3.861	3749726.00	4109610.00	9.5976
Aroclor 1232	4	Averaged	3.929	3.895	3.963	1606492.00	1773830.00	10.4164
Aroclor 1232	5	Averaged	3.993	3.961	4.029	1091876.00	1160248.00	6.2619
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	111322820.	1.6090
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	121347320.	-1.5798

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

SAMPLE NO.

10874370CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/03/2018 Time: 23:28

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

Lab File ID: 040318.B\040318036.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157822

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	2643556.00	4.3564
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2623184.00	4.0932
Aroclor 1242	3	Averaged	3.827	3.793	3.861	7116457.95	7568694.00	6.3548
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3236446.00	6.4083
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2151384.00	5.0610
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	111390140.	1.6705
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	122590000.	-0.5719

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

Pace Analytical Services, Inc.

SW846-8082

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

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

Data File: ...wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D Page 2
Report Date: 22-Mar-2018 13:35

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

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

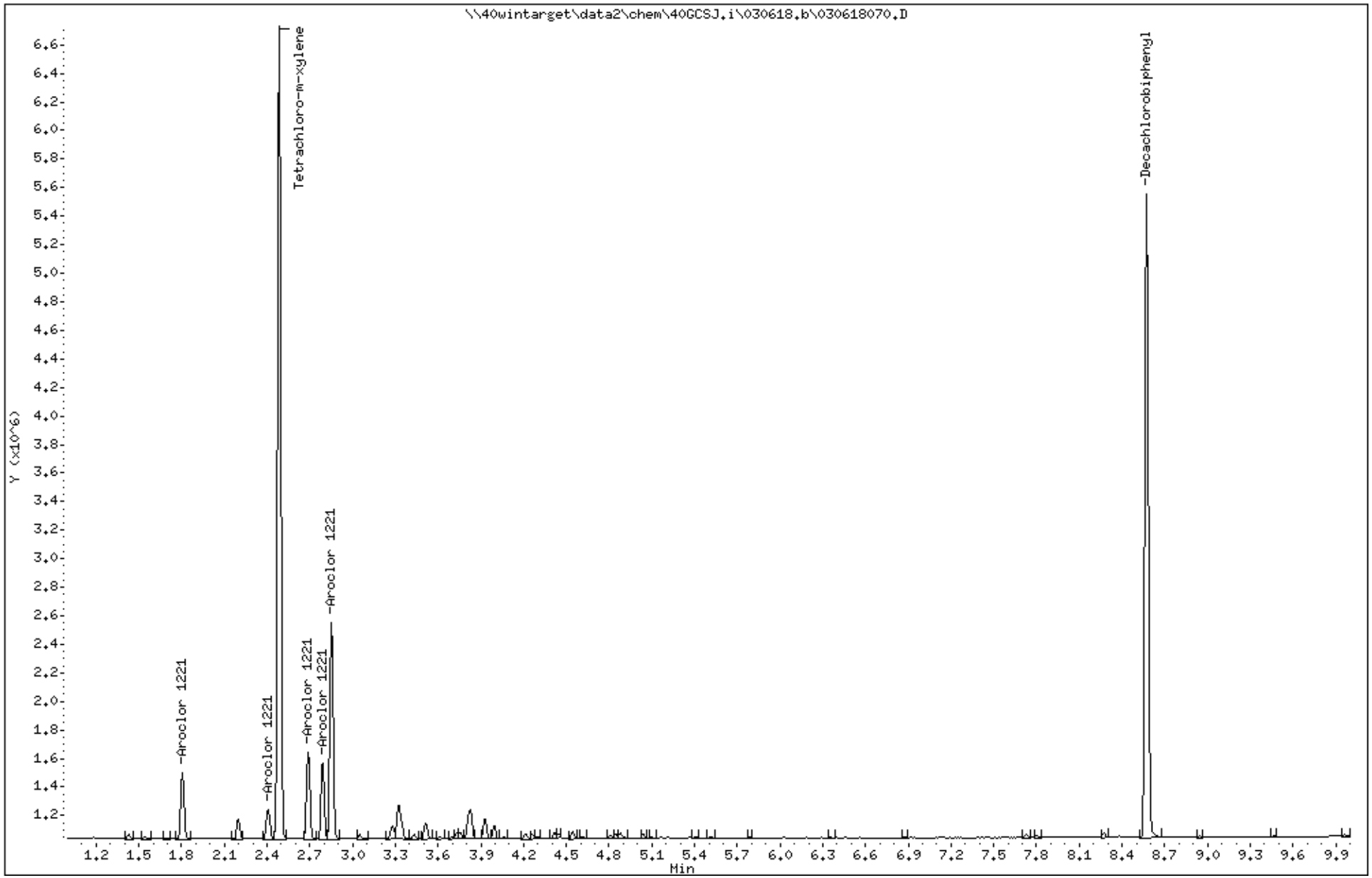
M - Compound response manually integrated.

Review Codes Legend

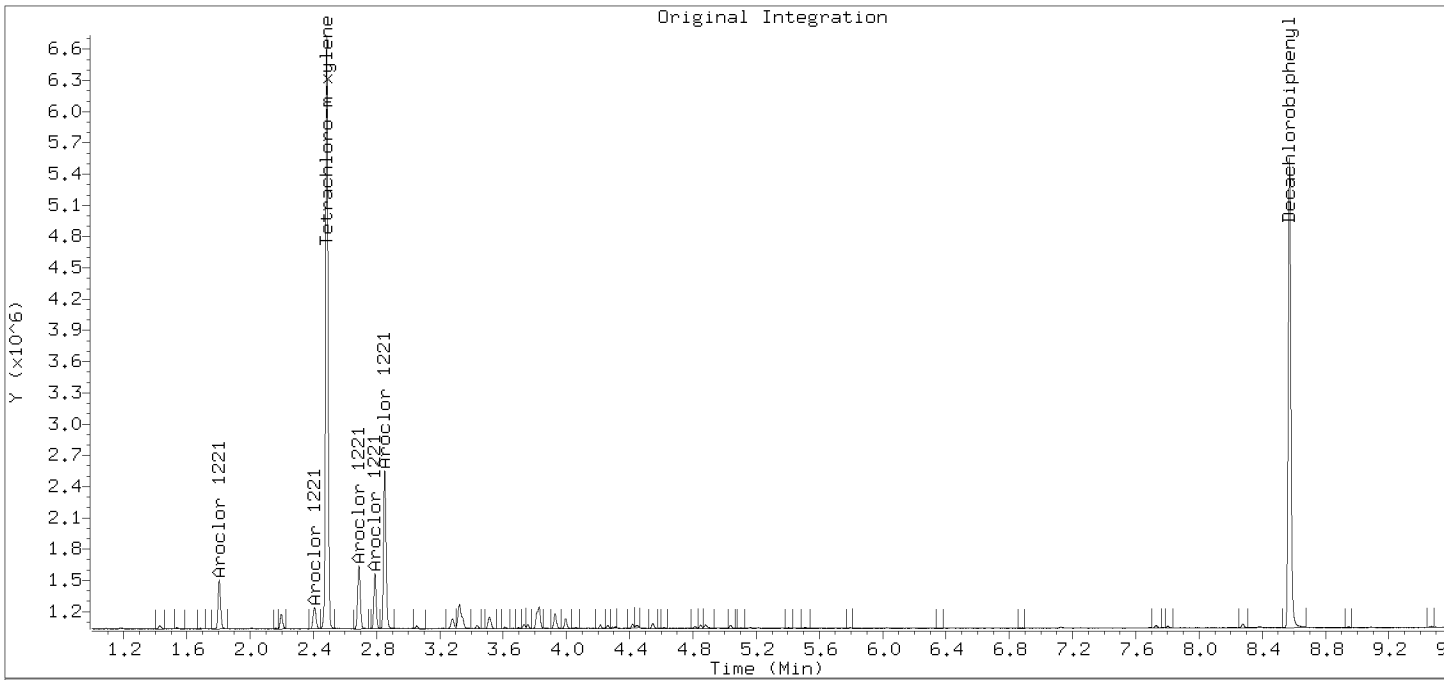
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

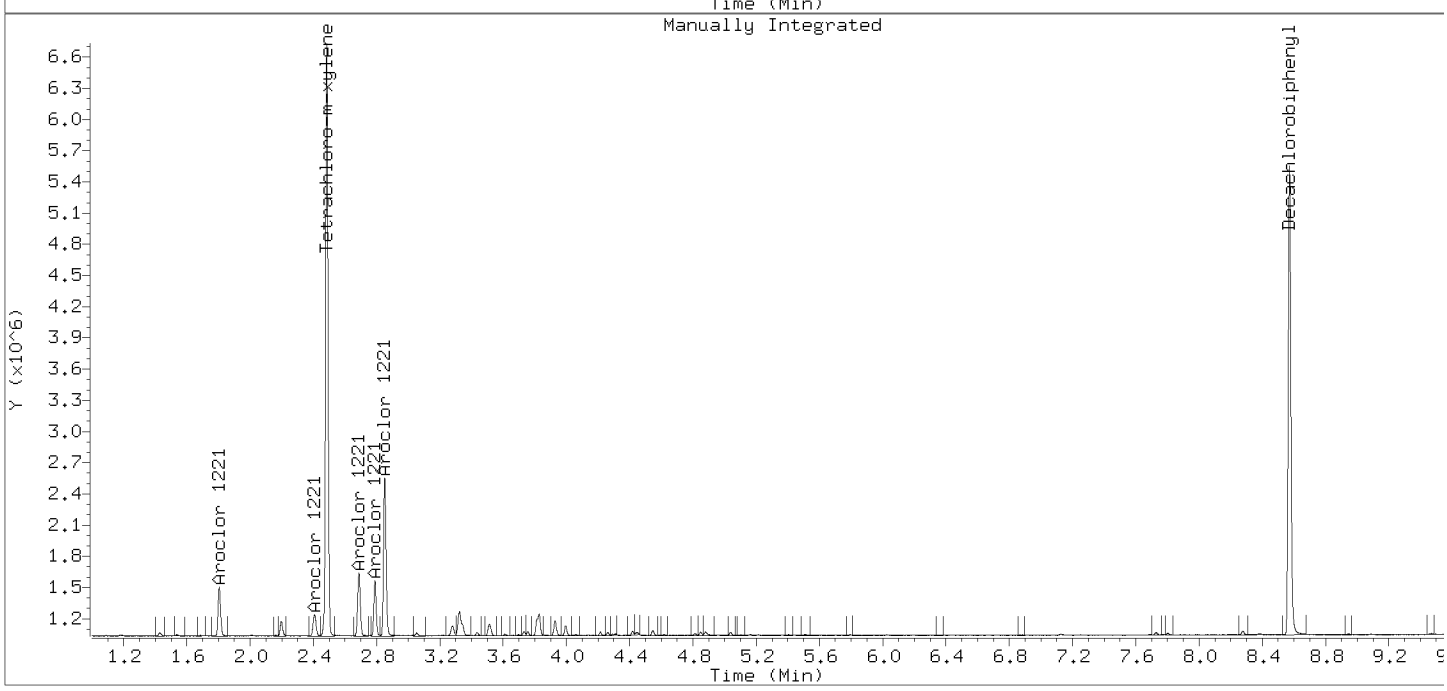
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

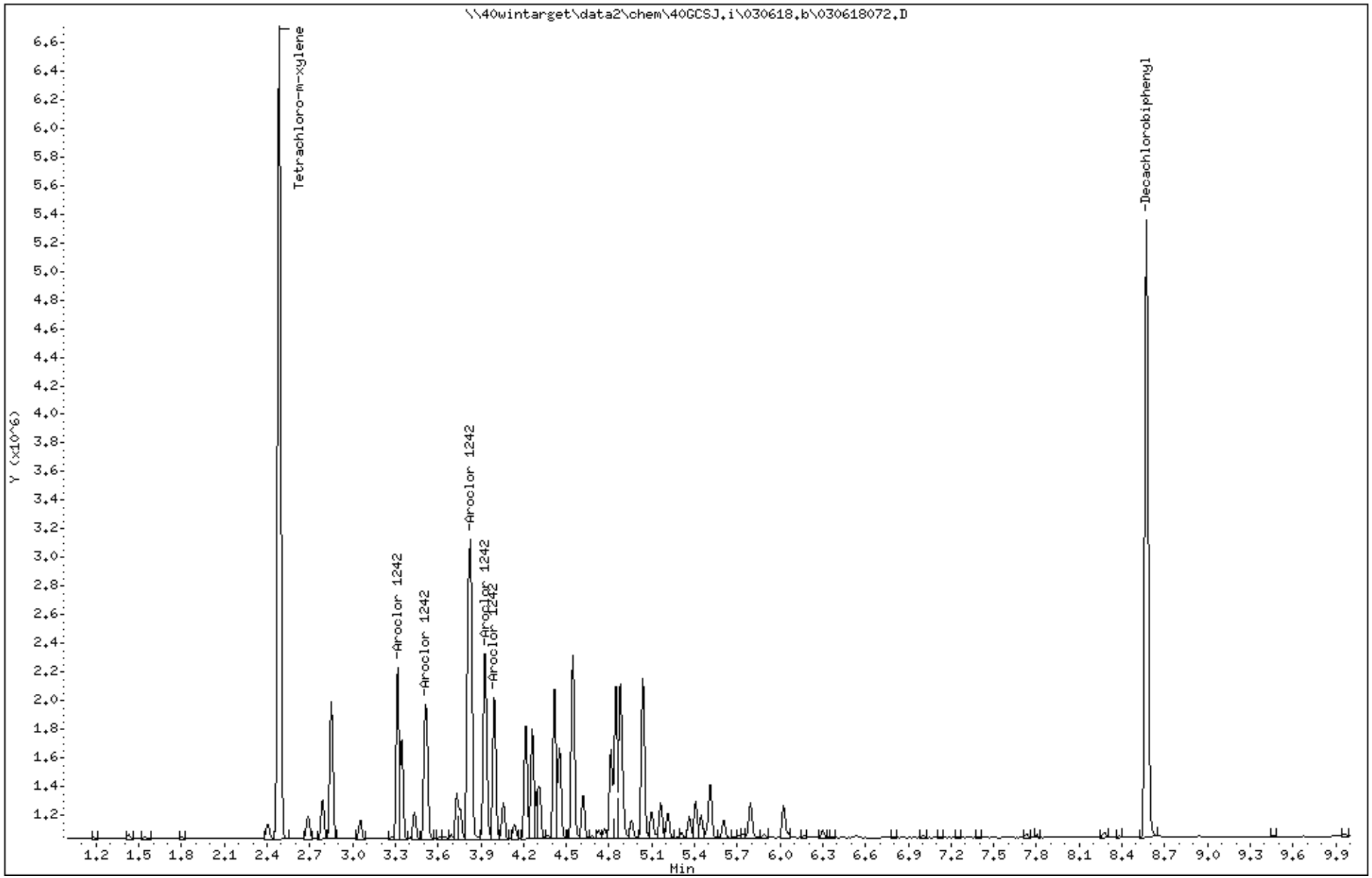
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

Instrument: 40GCSJ.i

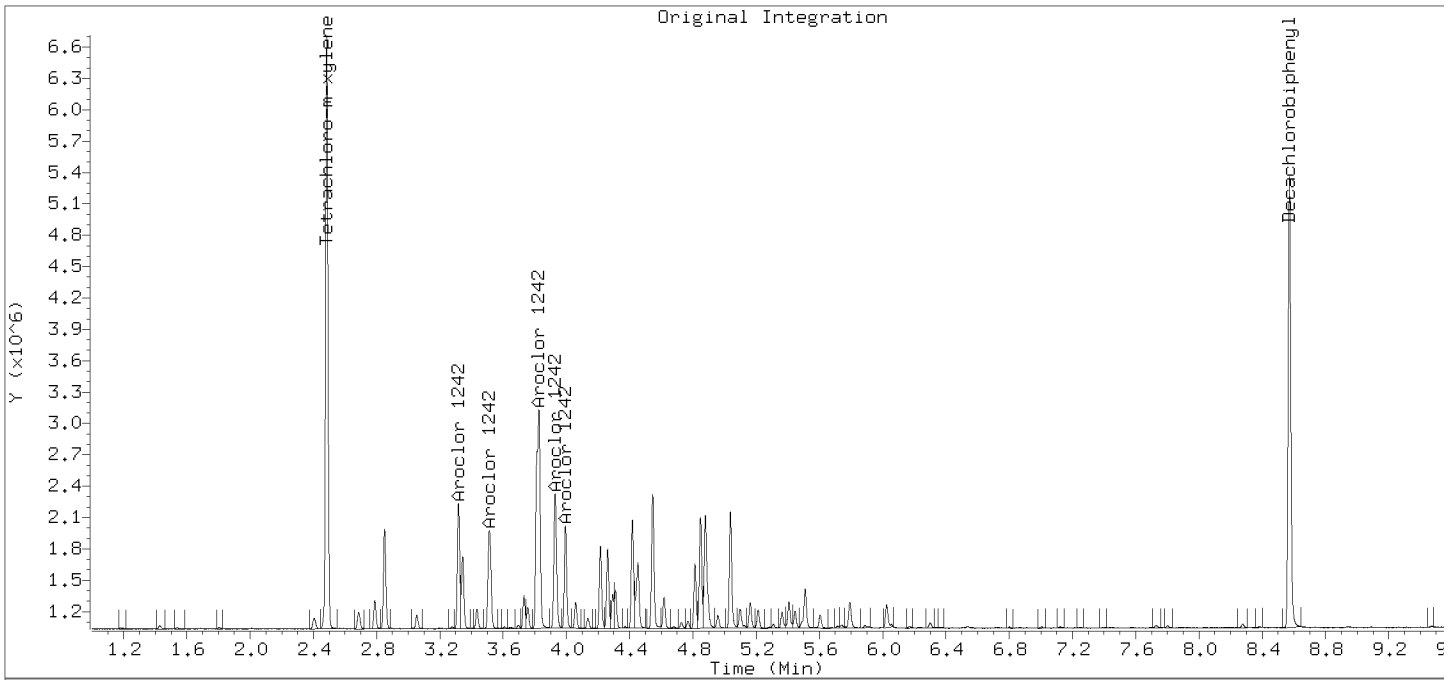
Operator: BLM

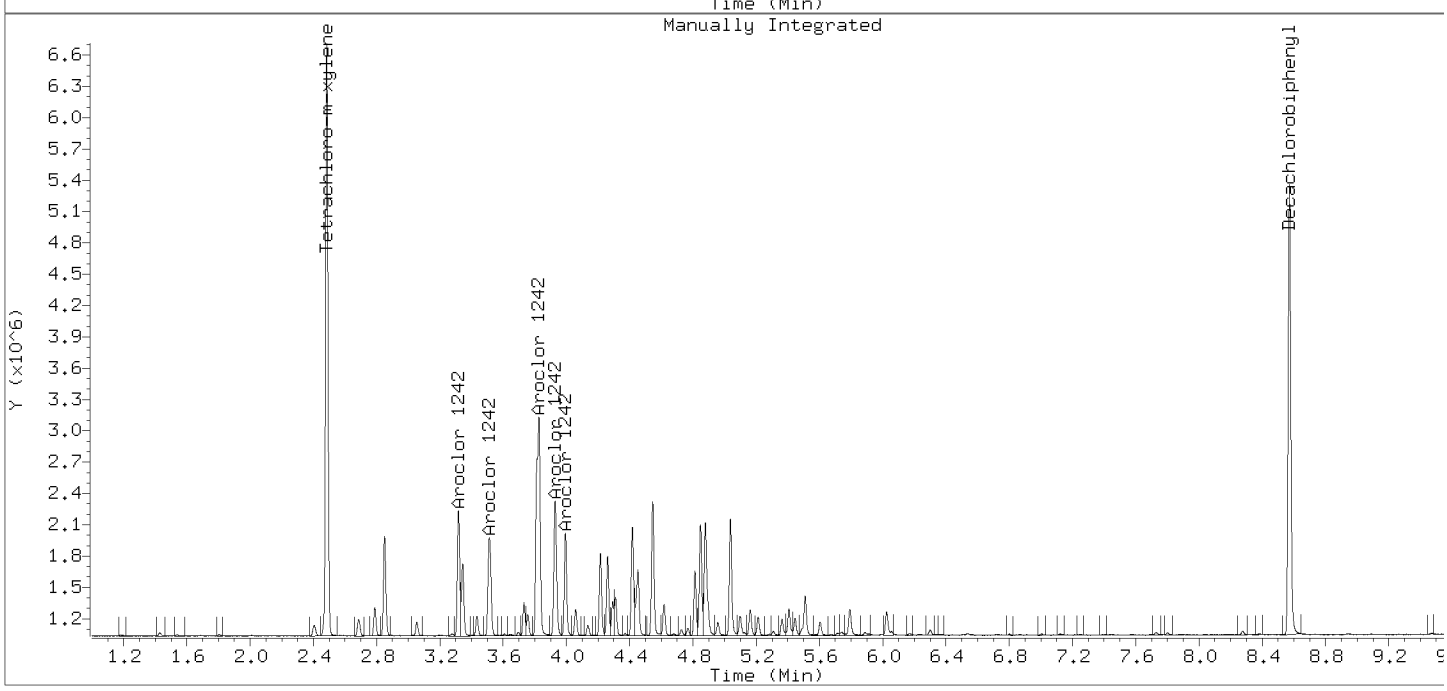
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

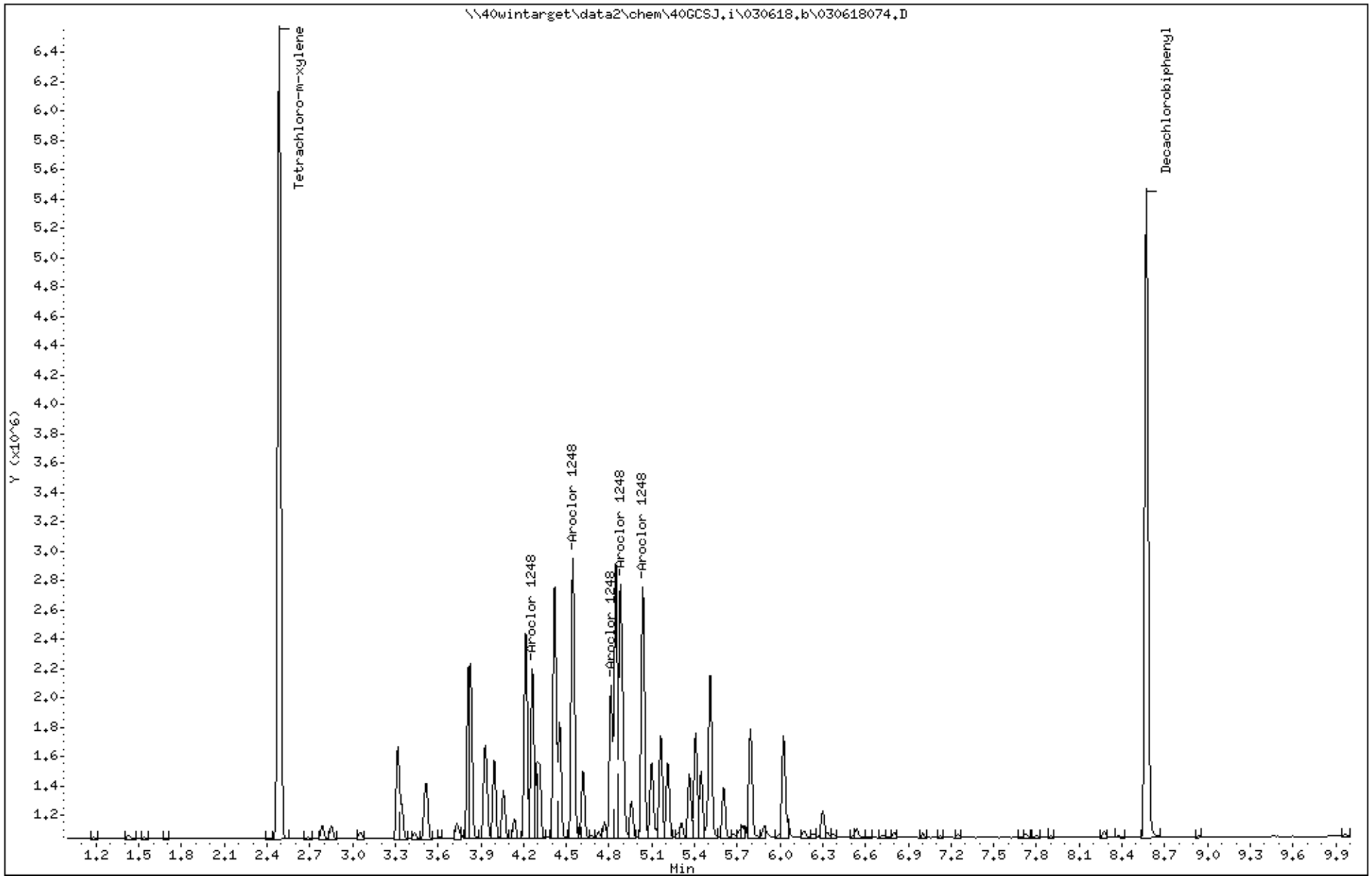
M - Compound response manually integrated.

Review Codes Legend

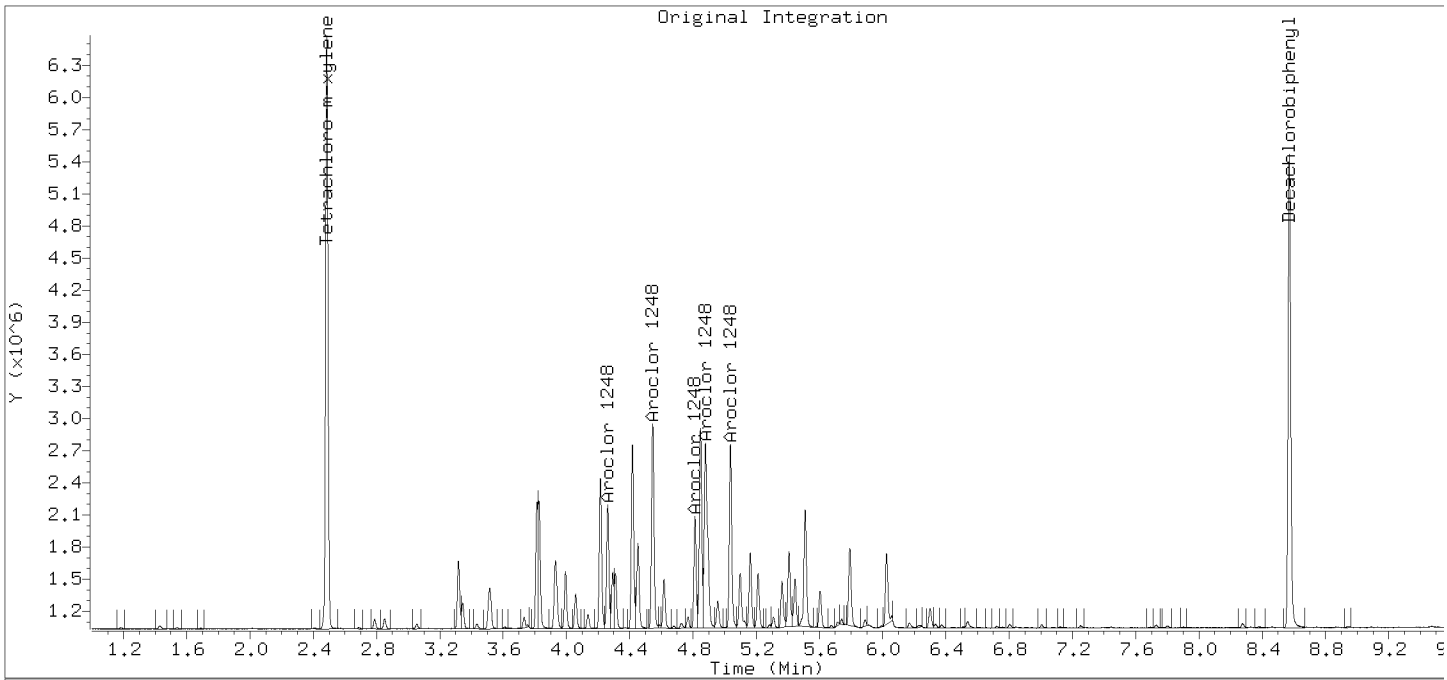
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

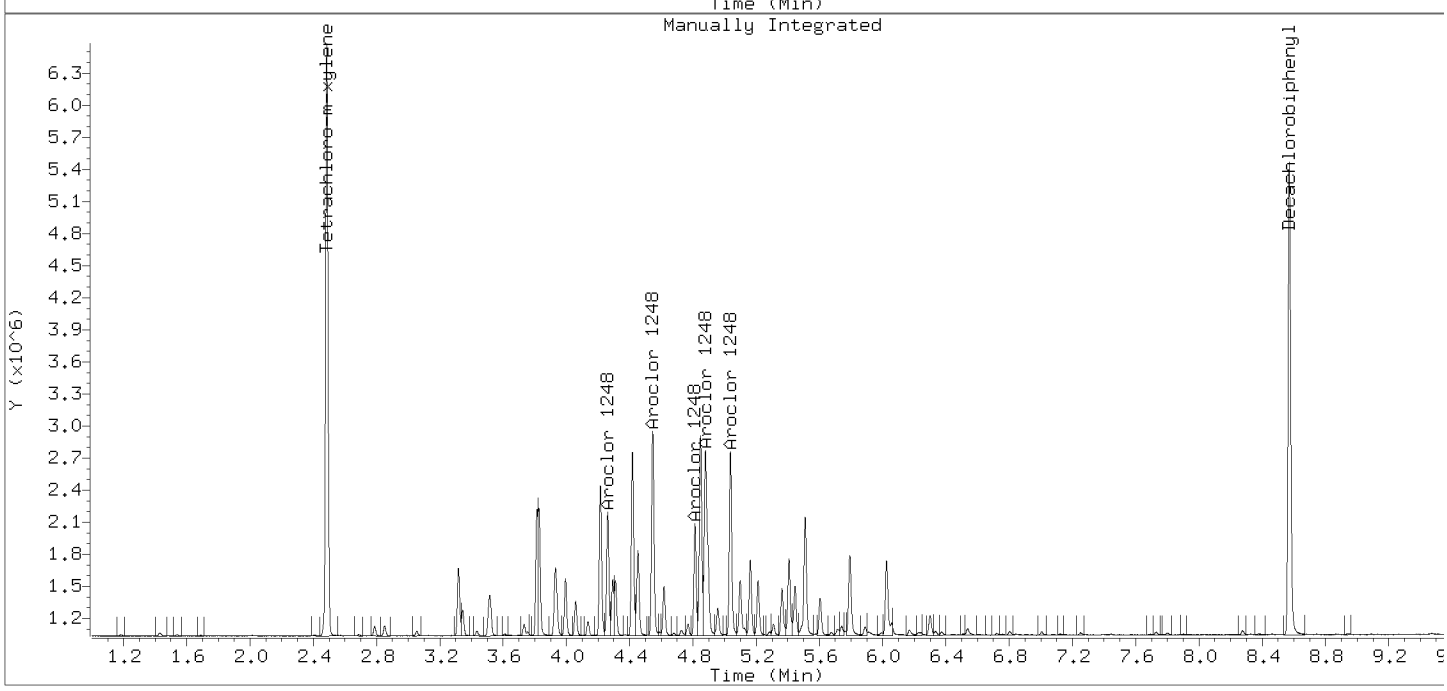
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618074.D
Date : 06-MAR-2018 20:44
Client ID: 1248-ICV
Sample Info: 1248-ICV, 185563:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 21:00

Client ID: 1254-ICV

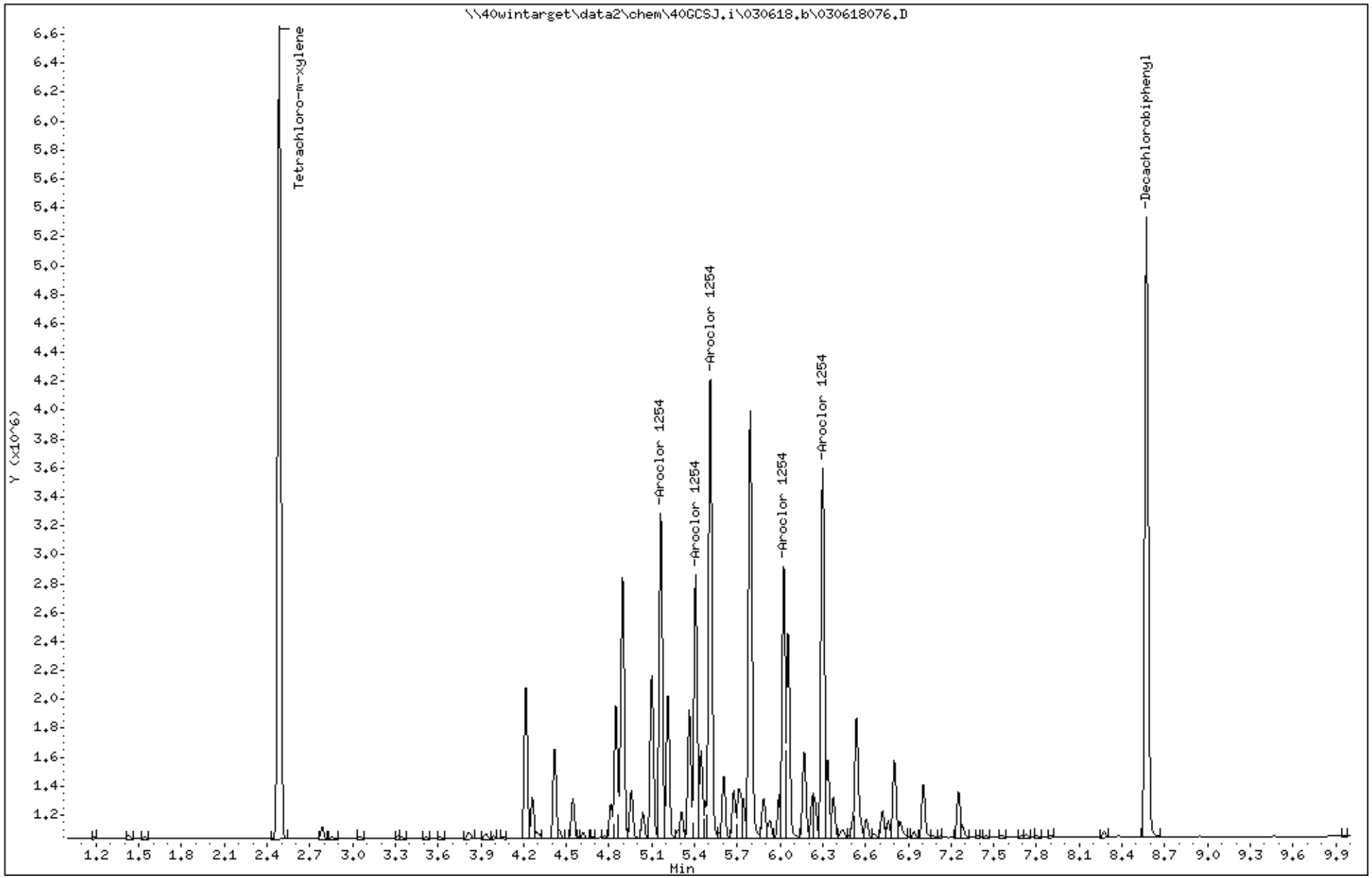
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

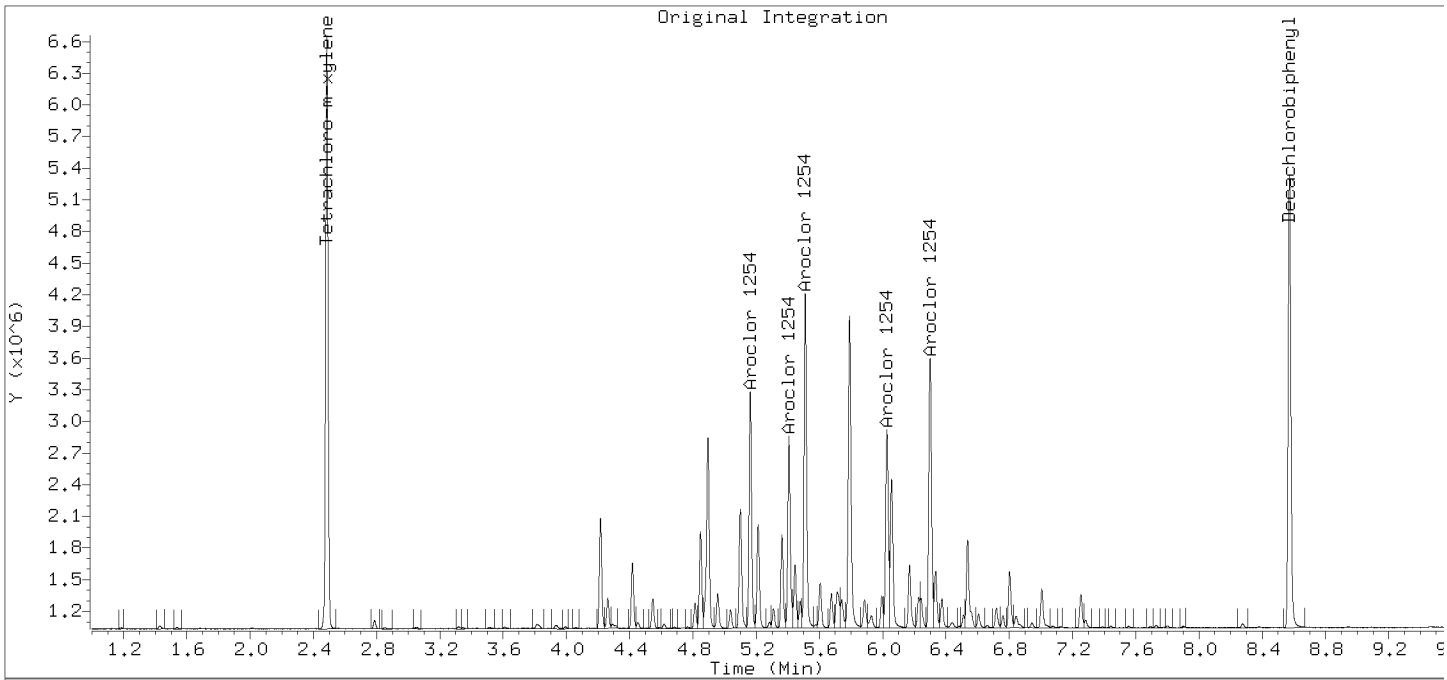
Operator: BLM

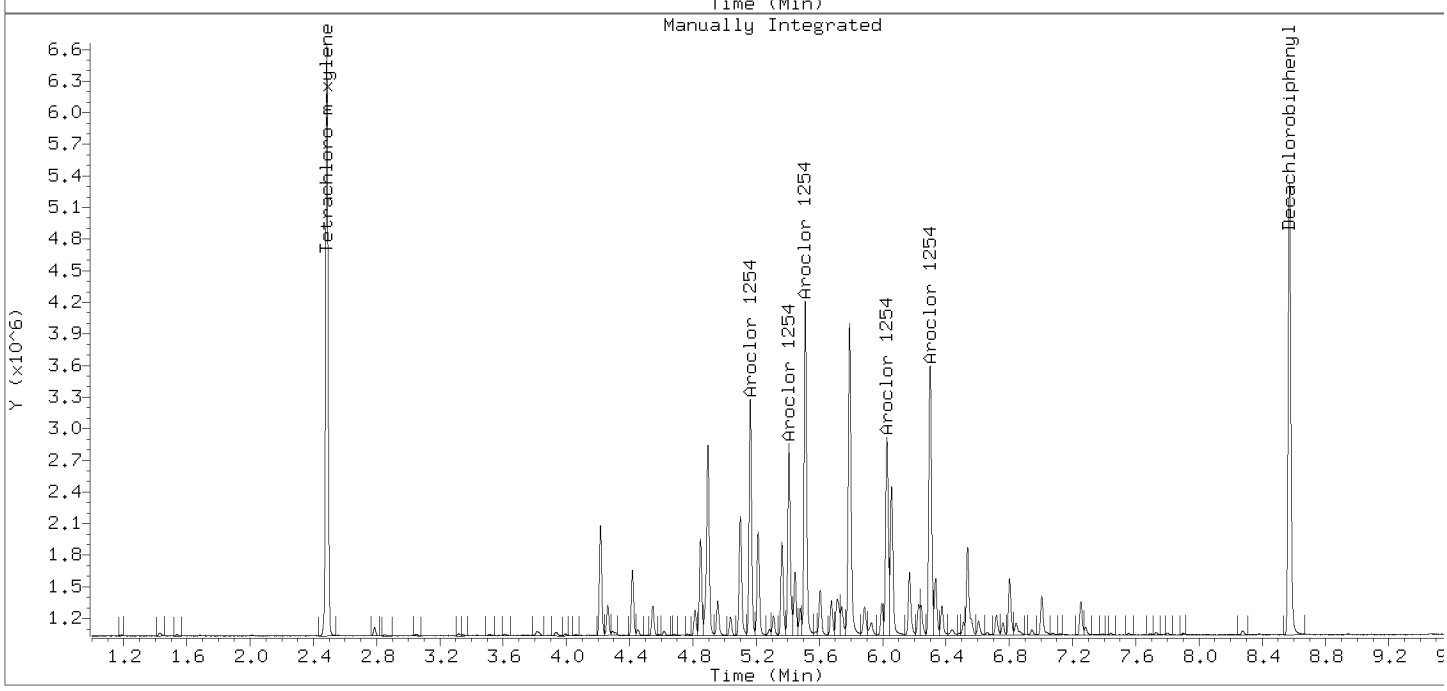
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

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

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 21:16

Client ID: 1660-ICV

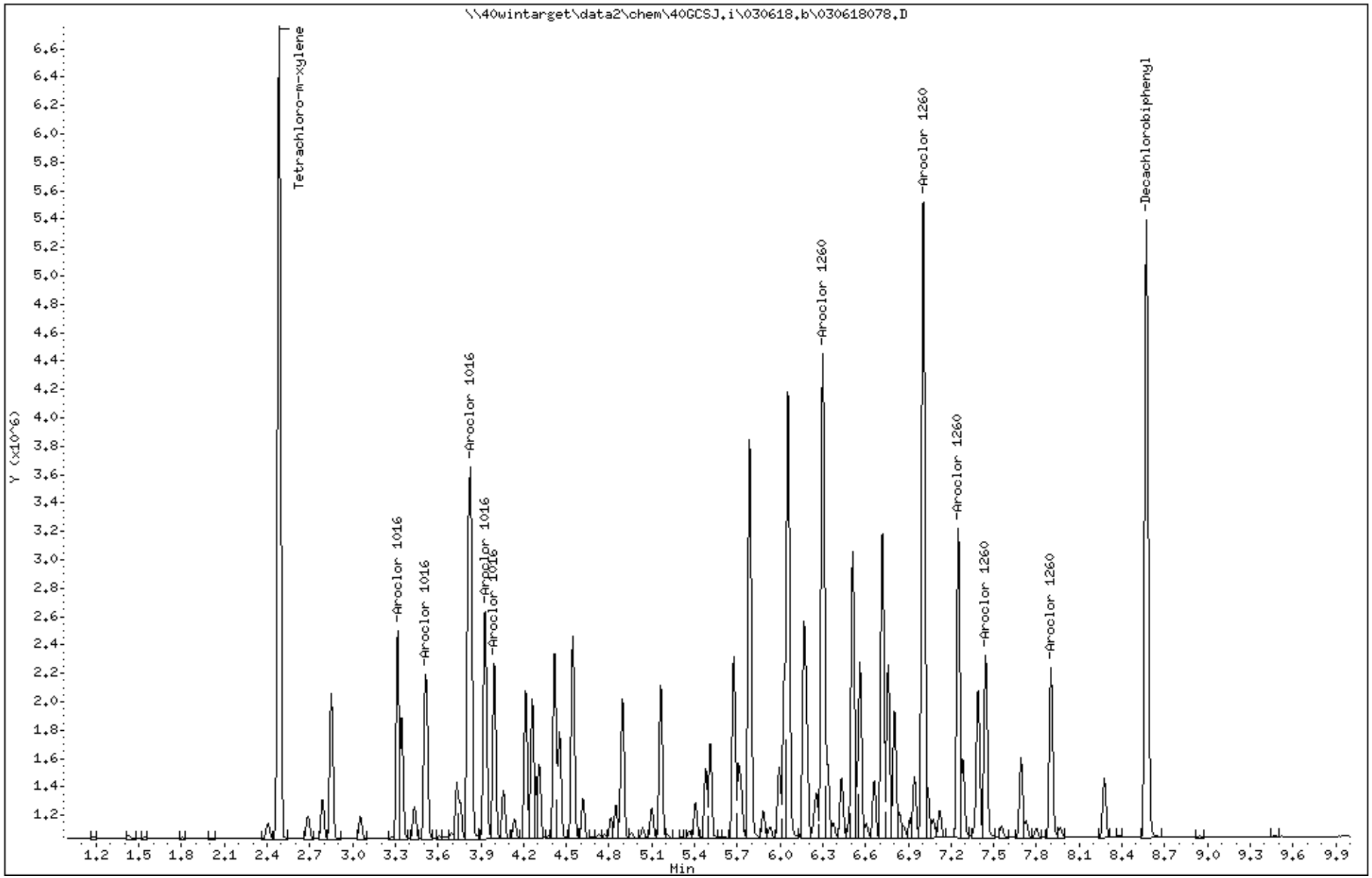
Instrument: 40GCSJ.i

Sample Info: 1660-ICV, 185565:1

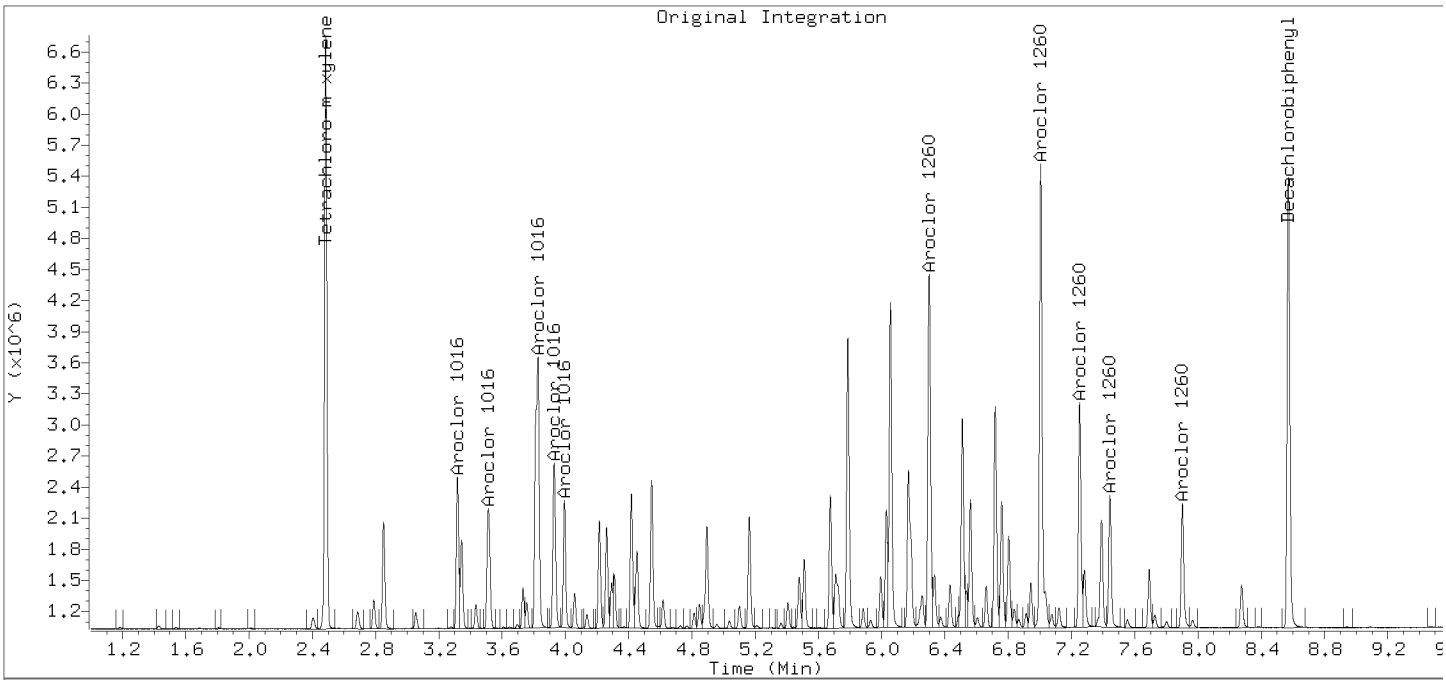
Operator: BLM

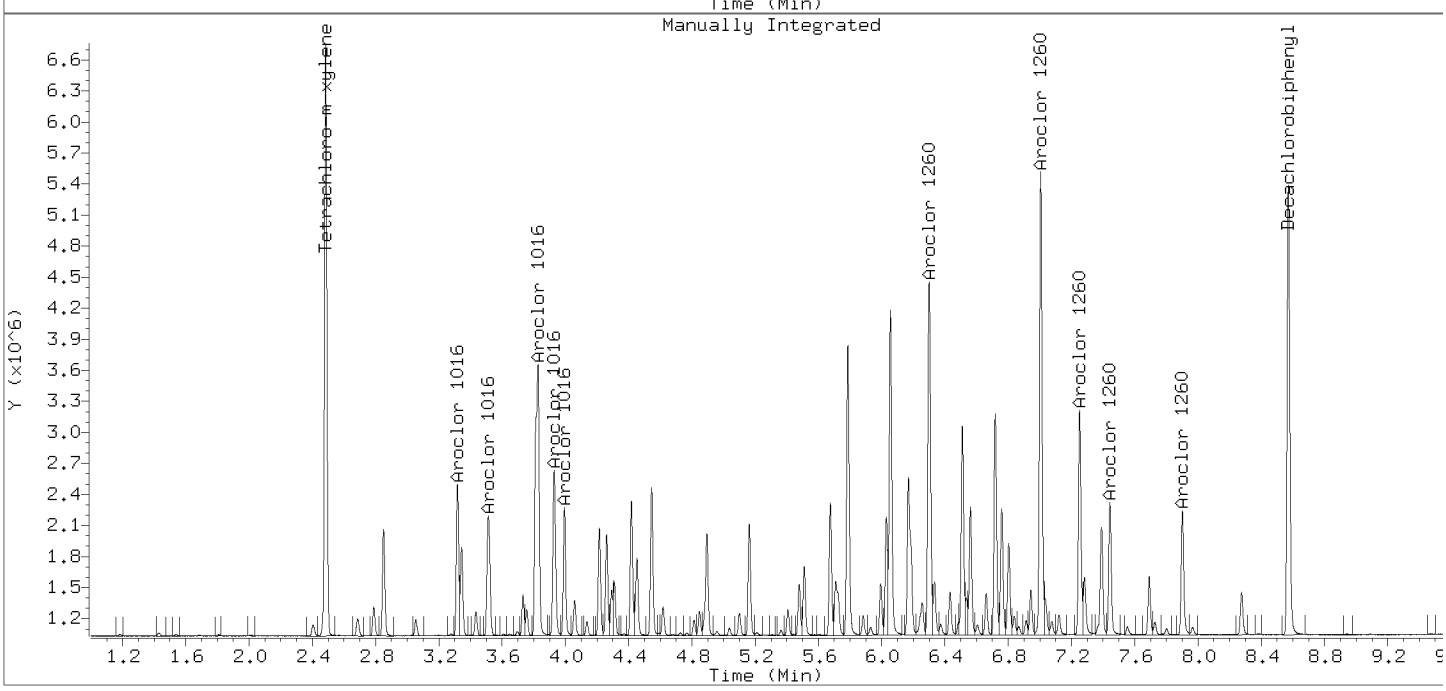
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 03-APR-2018 15:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 06-Apr-2018 14:26 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	34539	25943	0.751	0.03		
1.433	38857	30743	0.791	0.04		
1.540	19603	14651	0.747	0.02		
1.686	25756	20660	0.802	0.02		
1.810	14765	13084	0.886	0.01		
2.012	18840	14736	0.782	0.02		
2.128	9731	6666	0.685	0.01		
2.407	148696	110474	0.743	0.16		
2.485	6371915	5883653	0.923	7.70	$ 2 Tetrachloro-m-xylene	
2.686	207720	169490	0.816	0.23		
2.789	321302	291960	0.909	0.36		
2.850	1173606	1055627	0.899	1.33		
3.055	168097	155221	0.923	0.19		
3.278	25136	19961	0.794	0.02		
3.318	1600535	1479114	0.924	1.81	5 Aroclor 1016	BA
3.344	916091	855894	0.934	1.04		
3.434	260394	228260	0.877	0.29		
3.514	1606836	1133286	0.705	1.82	5 Aroclor 1016	BA
3.611	20303	17447	0.859	0.02		
3.646	28140	18402	0.654	0.03		
3.697	43925	42973	0.978	0.04		
3.732	404759	391001	0.966	0.45		
3.756	268613	251369	0.936	0.30		
3.826	4514270	2631229	0.583	5.12	5 Aroclor 1016	BA
3.930	1931104	1560241	0.808	2.19	5 Aroclor 1016	BA
3.995	1298214	1194192	0.920	1.47	5 Aroclor 1016	BA
4.058	385822	340947	0.884	0.43		
4.137	153520	131351	0.856	0.17		
4.215	1154379	1092284	0.946	1.31		
4.261	1032745	987266	0.956	1.17		
4.292	424347	444420	1.047	0.48		
4.311	550682	512192	0.930	0.62		
4.371	36940	24295	0.658	0.04		
4.417	1430804	1325005	0.926	1.62		
4.452	1032223	808200	0.783	1.17		
4.546	1831716	1642990	0.897	2.07		
4.617	409522	375521	0.917	0.46		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.680	30287	21062	0.695	0.03	
4.726	64625	53770	0.832	0.07	
4.769	59973	53524	0.892	0.06	
4.812	321506	305408	0.950	0.36	
4.848	509859	465369	0.913	0.57	
4.895	1654354	1202396	0.727	1.87	
4.958	107844	86367	0.801	0.12	
5.037	96001	80036	0.834	0.10	
5.101	348199	297381	0.854	0.39	
5.162	1366531	1251596	0.916	1.55	
5.211	62941	51563	0.819	0.07	
5.310	18264	13579	0.744	0.02	
5.363	95572	82783	0.866	0.10	
5.407	390633	331527	0.849	0.44	
5.478	549145	510076	0.929	0.62	
5.510	937459	846140	0.903	1.06	
5.605	24945	16971	0.680	0.02	
5.676	1392709	1286038	0.923	1.58	
5.710	947657	544421	0.574	1.07	
5.786	3426132	2956835	0.863	3.89	
5.882	235712	208816	0.886	0.26	
5.930	116665	89412	0.766	0.13	
5.994	575831	551479	0.958	0.65	
6.030	1304520	1262335	0.968	1.48	
6.056	3746187	3218769	0.859	4.25	
6.169	2451344	1523794	0.622	2.78	
6.256	565071	321761	0.569	0.64	
6.300	4520296	3576392	0.791	5.13	8 Aroclor 1260
6.334	659462	580250	0.880	0.74	
6.376	167105	132424	0.792	0.18	
6.431	485801	416254	0.857	0.55	
6.486	103742	129432	1.248	0.11	
6.510	2272530	1994129	0.877	2.58	
6.535	397841	444006	1.116	0.45	
6.561	1410047	1237176	0.877	1.60	
6.605	150593	116062	0.771	0.17	
6.661	442115	416435	0.942	0.50	
6.718	2409282	2132226	0.885	2.73	
6.759	1358935	1199126	0.882	1.54	
6.803	1096598	967101	0.882	1.24	
6.838	208227	180681	0.868	0.23	
6.865	110407	92981	0.842	0.12	
6.913	155034	146795	0.947	0.17	
6.943	473226	424875	0.898	0.53	
7.005	5123377	4430632	0.865	5.81	8 Aroclor 1260
7.035	341881	345161	1.010	0.38	
7.075	163457	128380	0.785	0.18	
7.121	244089	198236	0.812	0.27	
7.220	11306	11348	1.004	0.01	
7.252	2438162	2111509	0.866	2.76	8 Aroclor 1260
7.282	701151	596621	0.851	0.79	
7.390	1269692	1029148	0.811	1.44	
7.442	1525491	1252267	0.821	1.73	8 Aroclor 1260
7.554	106237	81066	0.763	0.12	
7.691	602992	528856	0.877	0.68	
7.728	106125	85166	0.803	0.12	
7.777	13766	14646	1.064	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.802	86554	64313	0.743	0.09	
7.901	1347168	1131402	0.840	1.52	8 Aroclor 1260
7.967	98028	74442	0.759	0.11	
8.275	366006	319053	0.872	0.41	
8.380	22054	15992	0.725	0.02	
8.571	5707908	4807768	0.842	6.48	$ 12 Decachlorobiphenyl
8.945	19617	14850	0.757	0.02	
9.471	18721	14336	0.766	0.02	
9.958	22774	15262	0.670	0.02	
	88072208	74390755		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 03-APR-2018 15:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 06-Apr-2018 14:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	6371914	0.05000	0.052			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1600534	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.514	3.512	0.002	1606835	0.50000	0.52	0.00- 20.00	100.39	BA
3.826	3.826	0.000	4514269	0.50000	0.51	0.00- 20.00	282.05	BA
3.929	3.929	0.000	1931103	0.50000	0.51	0.00- 20.00	120.65	BA
3.994	3.994	0.000	1298213	0.50000	0.50	0.00- 20.00	81.11	BA
Average of Peak Amounts =					0.51200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4520296	0.50000	0.51	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	5123376	0.50000	0.51	0.00- 20.00	113.34	CO
7.251	7.251	0.000	2438161	0.50000	0.51	0.00- 20.00	53.94	CO
7.441	7.443	-0.002	1525491	0.50000	0.52	0.00- 20.00	33.75	CO
7.900	7.901	-0.001	1347167	0.50000	0.51	0.00- 20.00	29.80	CO
Average of Peak Amounts =					0.51200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	5707907	0.05000	0.052			

QC Flag Legend

M - Compound response manually integrated.

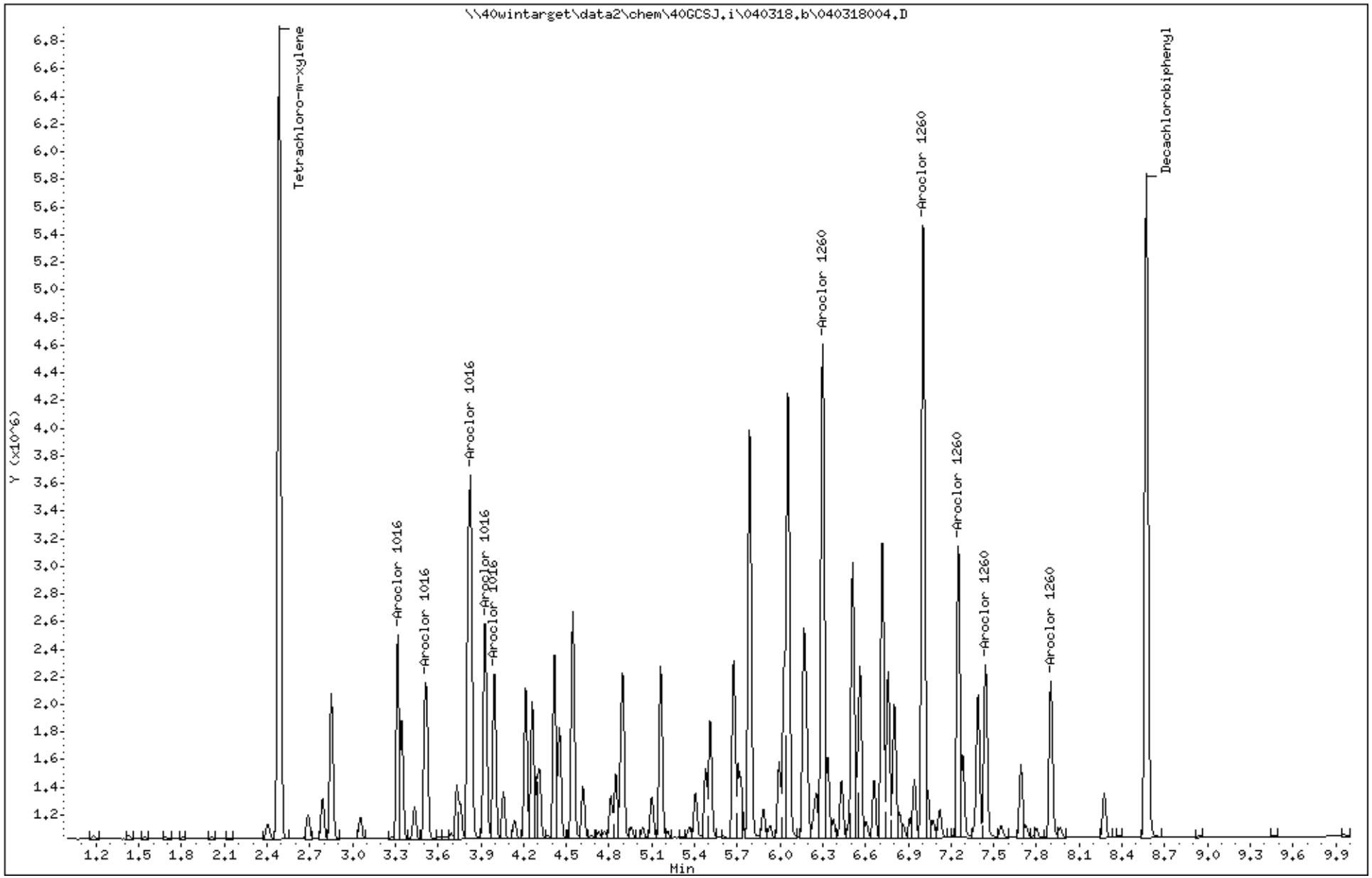
QC Flag Legend

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\040318.b\040318004.D
Date : 03-APR-2018 15:01
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

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



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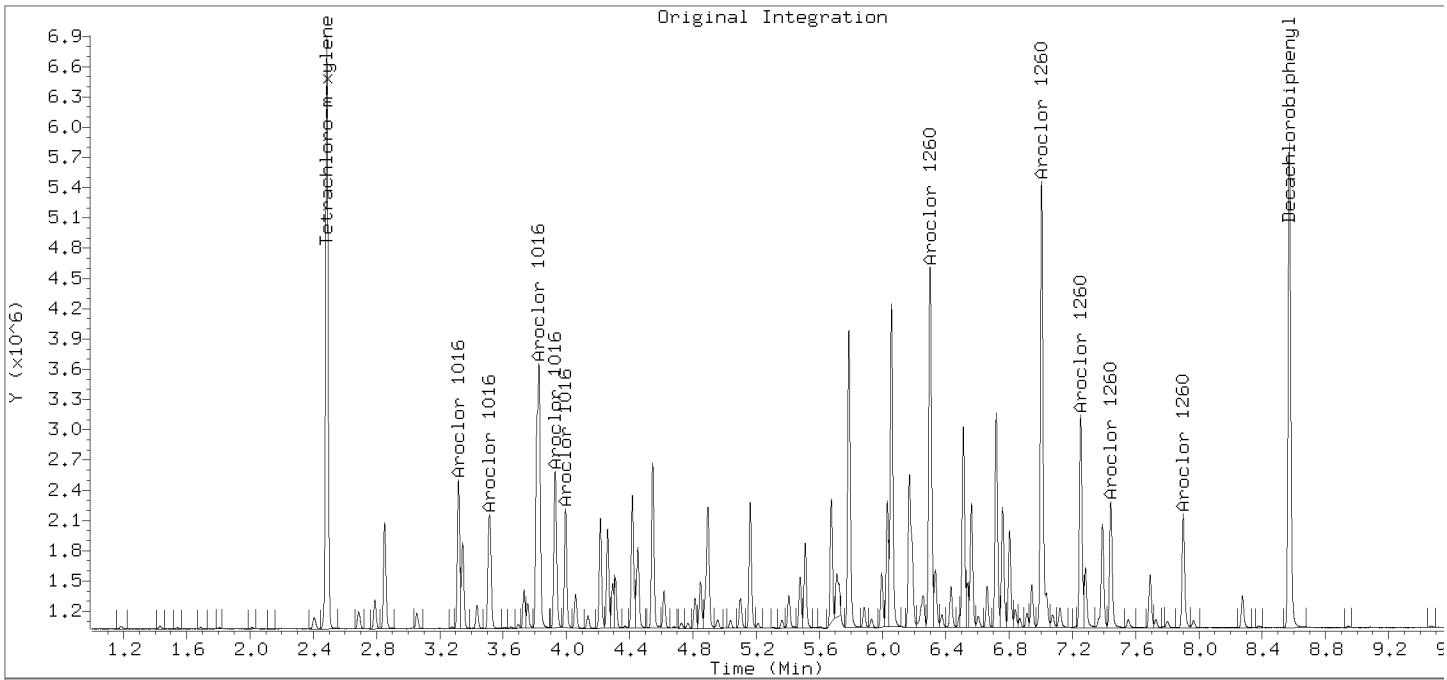
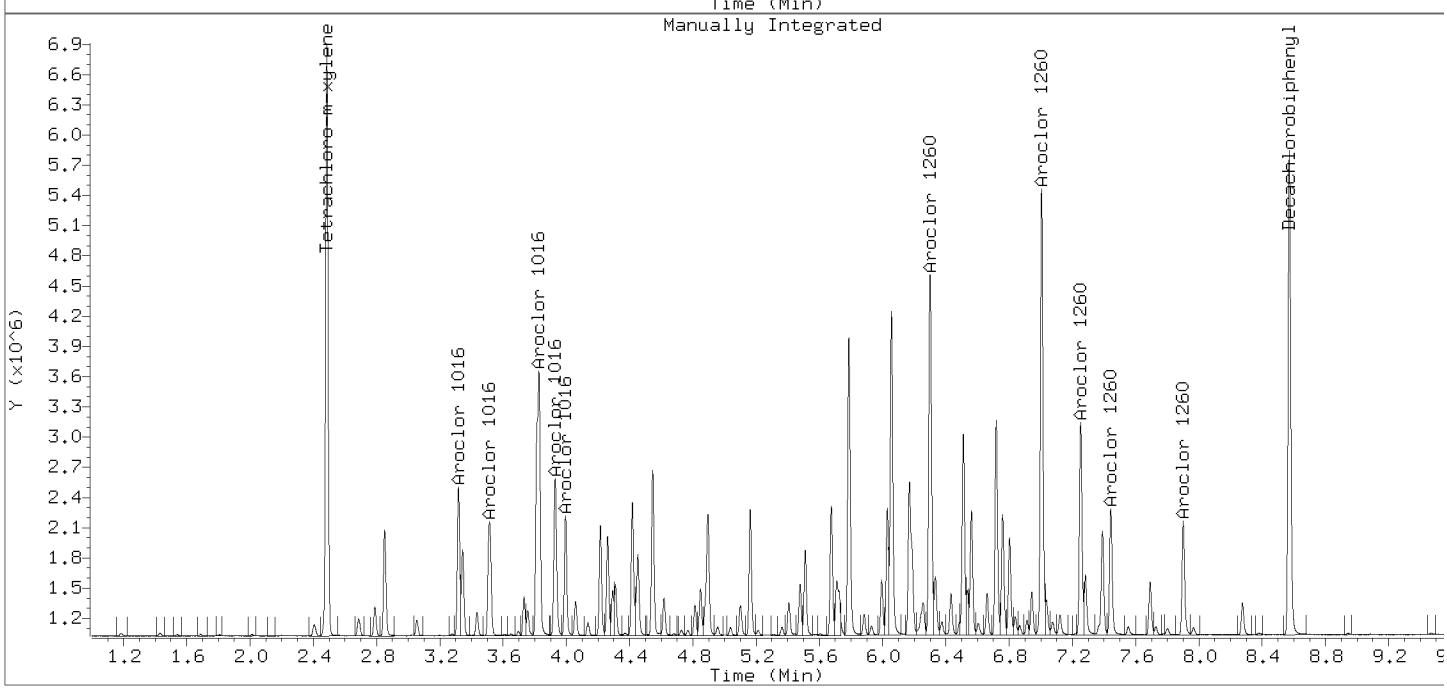
Injection Date: 03-APR-2018 15:01 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1592314	1600534	BA
Aroclor 1016	1592314	1600534	BA
Aroclor 1016	1592314	1600534	BA
Aroclor 1016	1592314	1600534	BA
Aroclor 1016	1592314	1600534	BA
Aroclor 1260	4499758	4520296	CO
Aroclor 1260	4499758	4520296	CO
Aroclor 1260	4499758	4520296	CO
Aroclor 1260	4499758	4520296	CO
Aroclor 1260	4499758	4520296	CO
Tetrachloro-m-xylene	6371914	6371914	
Decachlorobiphenyl	5707907	5707907	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 03-APR-2018 18:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 06-Apr-2018 14:26 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	68005	50409	0.741	0.36			
1.430	44672	34103	0.763	0.24			
1.536	16873	15660	0.928	0.09			
1.685	32989	28039	0.850	0.17			
1.804	537683	461822	0.859	2.89		1 Aroclor 1221	BA
2.012	48969	34298	0.700	0.26			
2.196	178636	145728	0.816	0.96			
2.408	283516	201425	0.710	1.52		1 Aroclor 1221	BA
2.484	6325140	5848215	0.925	34.28	$	2 Tetrachloro-m-xylene	BA
2.688	731601	599778	0.820	3.93		1 Aroclor 1221	BA
2.788	573313	532301	0.928	3.08		1 Aroclor 1221	BA
2.851	1759799	1507027	0.856	9.46		1 Aroclor 1221	BA
3.029	28825	23584	0.818	0.15			
3.051	41174	33098	0.804	0.22			
3.218	12402	8218	0.663	0.06			
3.280	128167	92928	0.725	0.68			
3.324	413389	228949	0.554	2.22			
3.436	38805	33603	0.866	0.20			
3.513	151587	108903	0.718	0.81			
3.610	17925	16582	0.925	0.09			
3.694	10636	11051	1.039	0.05			
3.732	43242	43190	0.999	0.23			
3.757	45982	39871	0.867	0.24			
3.826	353607	209060	0.591	1.90			
3.928	170577	140854	0.826	0.91			
3.995	119703	106004	0.886	0.64			
4.056	26156	19623	0.750	0.14			
4.133	11334	7703	0.680	0.06			
4.214	37578	34725	0.924	0.20			
4.261	32253	32105	0.995	0.17			
4.293	22112	12791	0.578	0.11			
4.415	43396	43362	0.999	0.23			
4.452	49519	30325	0.612	0.26			
4.544	55070	48983	0.889	0.29			
4.618	14121	13542	0.959	0.07			
4.813	20905	18780	0.898	0.11			
4.851	36321	32952	0.907	0.19			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.881	65071	45371	0.697	0.35	
5.036	39990	32427	0.811	0.21	
5.160	11219	9374	0.836	0.06	
5.214	14171	10029	0.708	0.07	
5.440	9490	6987	0.736	0.05	
5.511	18948	12290	0.649	0.10	
5.706	15800	13199	0.835	0.08	
5.789	10042	7276	0.725	0.05	
6.451	17741	12803	0.722	0.09	
7.127	26753	16274	0.608	0.14	
7.685	10840	8112	0.748	0.05	
7.729	33617	27895	0.830	0.18	
7.777	21888	16874	0.771	0.11	
7.801	31467	22989	0.731	0.16	
8.277	56300	45097	0.801	0.30	
8.377	28236	19850	0.703	0.15	
8.572	5578575	4632517	0.830	30.01	$ 12 Decachlorobiphenyl
8.938	27443	17922	0.653	0.14	
9.465	25603	15044	0.588	0.13	
9.963	18945	14538	0.767	0.10	
	18588122	15836459		100.000	

Total unknown % area = 15

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 03-APR-2018 18:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 06-Apr-2018 14:26 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	6325140	0.05000	0.051		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	537683	0.50000	0.52	0.00- 20.00	100.00(M)	BA
2.408	2.407	0.001	283516	0.50000	0.52	0.00- 20.00	52.73	BA
2.688	2.688	0.000	731601	0.50000	0.53	0.00- 20.00	136.07	BA
2.788	2.789	-0.001	573313	0.50000	0.52	0.00- 20.00	106.63	BA
2.851	2.851	0.000	1759799	0.50000	0.54	0.00- 20.00	327.29	BA
Average of Peak Amounts =					0.52600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.572	8.571	0.001	5578574	0.05000	0.051			

QC Flag Legend

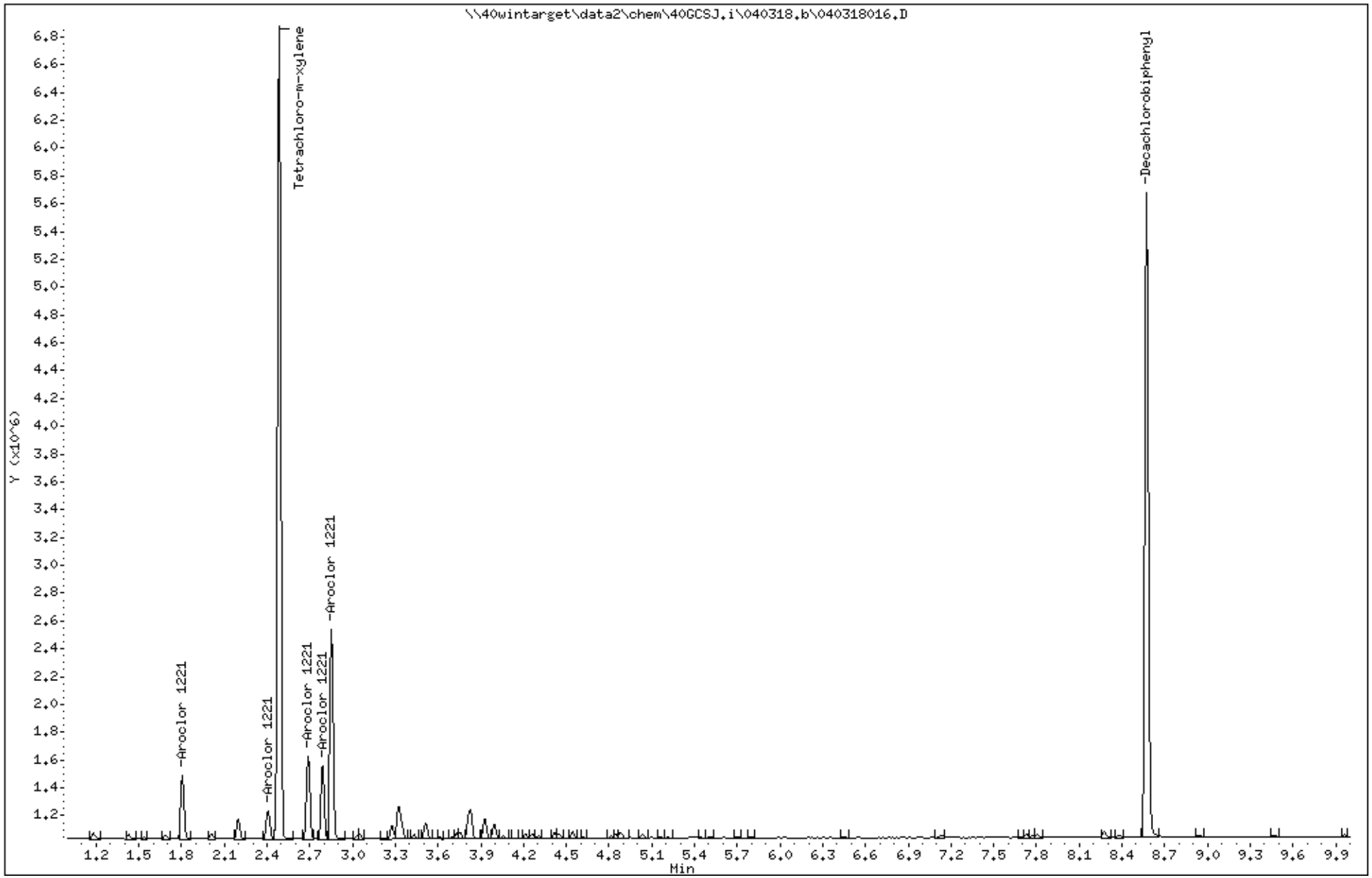
M - Compound response manually integrated.

Review Codes Legend

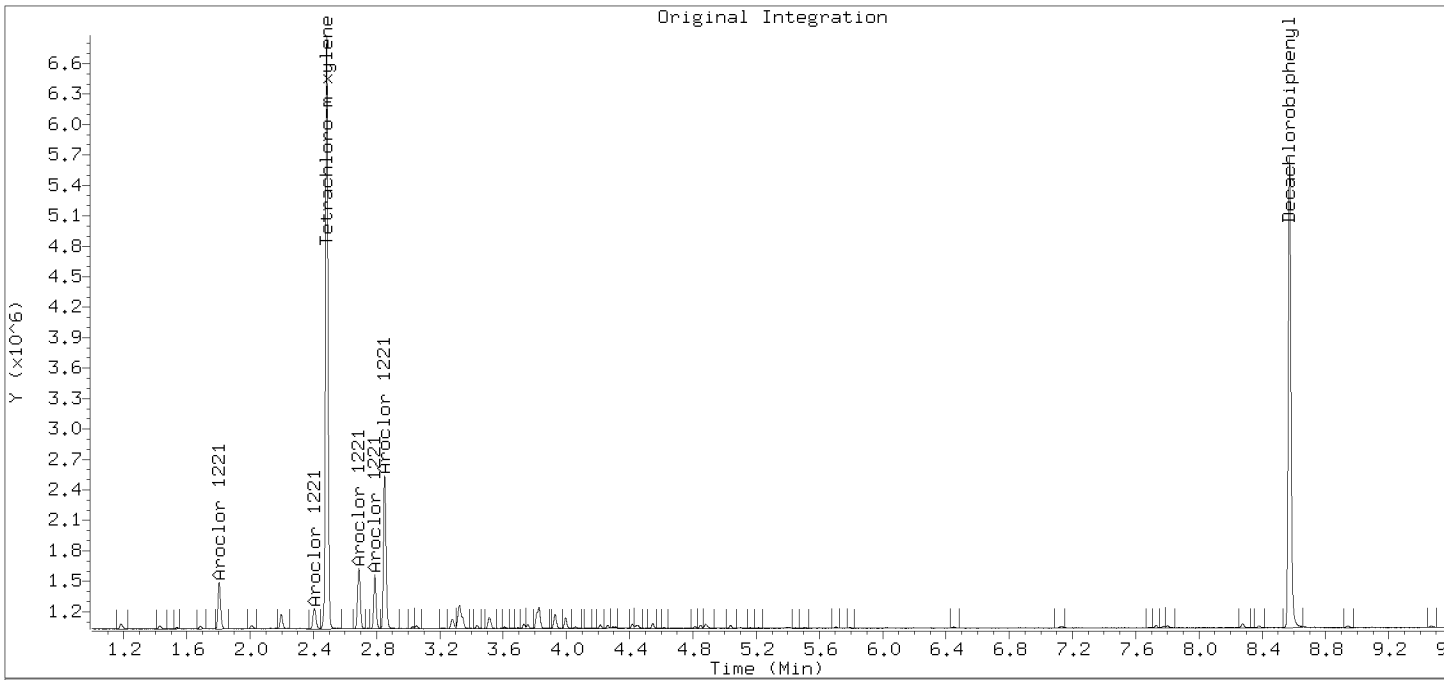
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

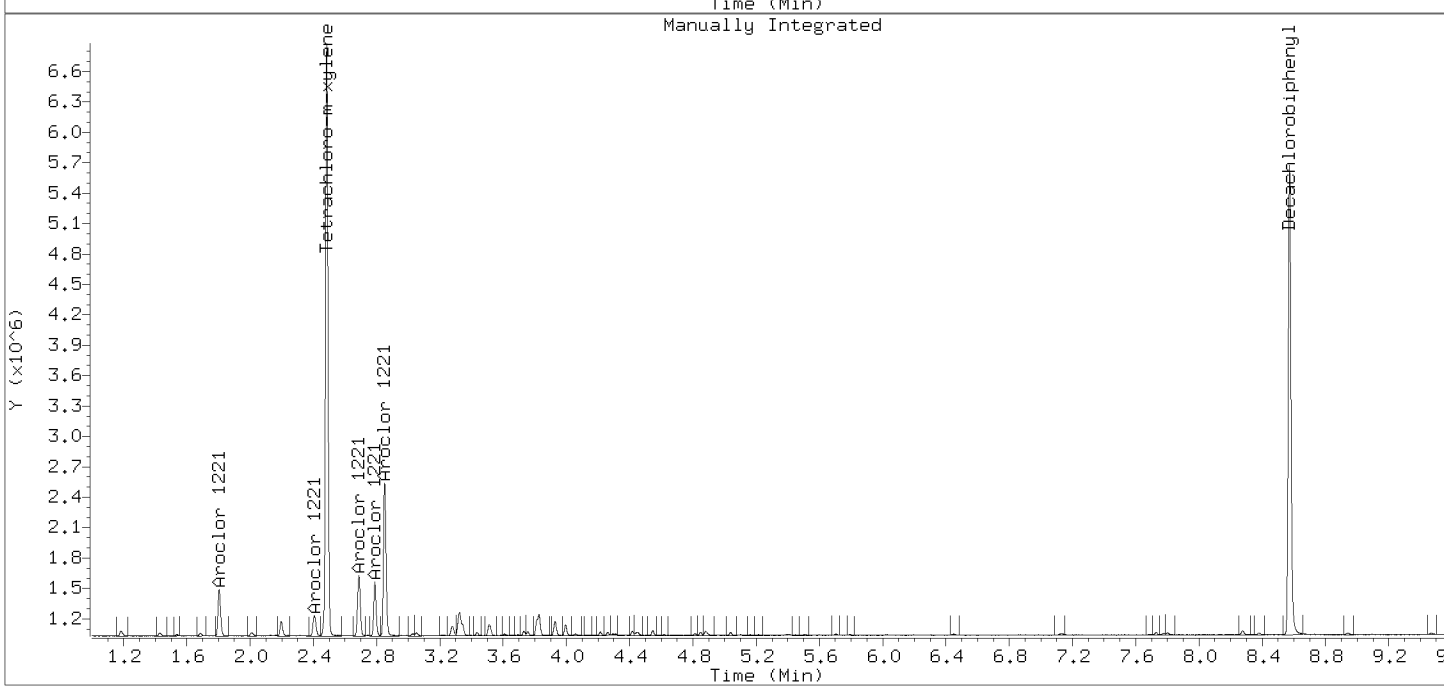
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318016.D
Date : 03-APR-2018 18:11
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318016.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 03-APR-2018 18:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	531684	537683	BA
Aroclor 1221	531684	537683	BA
Aroclor 1221	531684	537683	BA
Aroclor 1221	531684	537683	BA
Aroclor 1221	531684	537683	BA
Tetrachloro-m-xylene	6314493	6325140	BA
Decachlorobiphenyl	5578574	5578574	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 03-APR-2018 21:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 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
1.184	19825	17421	0.879	0.06		
1.432	39909	30983	0.776	0.14		
1.542	22381	14698	0.657	0.07		
1.688	30467	22377	0.734	0.10		
1.805	314615	256416	0.815	1.10		
2.197	86867	74954	0.863	0.30		
2.406	207989	150751	0.725	0.73		
2.485	6067367	5572212	0.918	21.67	$ 2 Tetrachloro-m-xylene	
2.688	454639	372371	0.819	1.59		
2.789	421164	384959	0.914	1.48		
2.851	1363091	1204217	0.883	4.79	4 Aroclor 1232	BA
3.054	92954	78012	0.839	0.32		
3.281	74049	55579	0.751	0.26		
3.318	781892	690494	0.883	2.74		
3.344	430315	387392	0.900	1.51		
3.434	121244	106216	0.876	0.42		
3.513	712241	503950	0.708	2.50	4 Aroclor 1232	BA
3.609	20379	19510	0.957	0.07		
3.646	16691	10297	0.617	0.05		
3.694	26040	22909	0.880	0.09		
3.731	188180	182240	0.968	0.66		
3.755	135075	126210	0.934	0.47		
3.826	2054805	1177256	0.573	7.22	4 Aroclor 1232	BA
3.929	886915	734704	0.828	3.11	4 Aroclor 1232	BA
3.994	580124	545237	0.940	2.03	4 Aroclor 1232	BA
4.059	162958	139418	0.856	0.57		
4.136	69829	56769	0.813	0.24		
4.215	425326	388350	0.913	1.49		
4.261	410715	382283	0.931	1.44		
4.294	176401	175725	0.996	0.61		
4.310	210183	197998	0.942	0.73		
4.368	22719	15159	0.667	0.07		
4.417	566910	528483	0.932	1.99		
4.452	477909	330432	0.691	1.67		
4.546	746398	665262	0.891	2.62		
4.617	176886	158887	0.898	0.62		
4.680	15412	12433	0.807	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.726	45082	34010	0.754	0.15	
4.768	41459	38409	0.926	0.14	
4.813	334559	312756	0.935	1.17	
4.847	579779	538034	0.928	2.03	
4.879	767295	554709	0.723	2.69	
4.960	89635	62973	0.703	0.31	
5.038	638275	563369	0.883	2.24	
5.100	124314	89907	0.723	0.43	
5.163	141667	119387	0.843	0.49	
5.211	108788	84223	0.774	0.38	
5.311	29310	22497	0.768	0.10	
5.363	86062	73184	0.850	0.30	
5.408	156267	119434	0.764	0.54	
5.444	94076	76998	0.818	0.33	
5.509	251514	174763	0.695	0.88	
5.604	81063	61077	0.753	0.28	
5.672	19040	12437	0.653	0.06	
5.712	24717	15392	0.623	0.08	
5.740	29010	18036	0.622	0.10	
5.791	157564	117170	0.744	0.55	
5.885	20514	18166	0.886	0.07	
6.025	126179	104567	0.829	0.44	
6.054	42302	31999	0.756	0.14	
6.170	21263	12140	0.571	0.07	
6.298	42088	34067	0.809	0.14	
6.510	12074	10852	0.899	0.04	
6.720	15233	12022	0.789	0.05	
6.757	11407	8093	0.709	0.04	
6.803	13667	9274	0.679	0.04	
7.005	27116	24302	0.896	0.09	
7.443	11595	7639	0.659	0.04	
7.727	25709	22090	0.859	0.09	
7.799	18040	15791	0.875	0.06	
8.275	52932	44354	0.838	0.18	
8.376	12752	9418	0.739	0.04	
8.571	5566141	4566022	0.820	19.55	$ 12 Decachlorobiphenyl
8.943	10214	8845	0.866	0.03	
9.964	17316	8764	0.506	0.06	
	28456884	23829734		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 03-APR-2018 21:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6067366	0.05000	0.049			
4 Aroclor 1232					CAS #: 1114-16-5			
2.851	2.851	0.000	1363090	0.50000	0.54	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	712241	0.50000	0.53	0.00- 20.00	52.25	BA
3.825	3.827	-0.002	2054805	0.50000	0.55	0.00- 20.00	150.75	BA
3.929	3.929	0.000	886915	0.50000	0.55	0.00- 20.00	65.07	BA
3.993	3.995	-0.002	580124	0.50000	0.53	0.00- 20.00	42.56	BA
Average of Peak Amounts =					0.54000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5566141	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\040318.b\040318028.D

Date : 03-APR-2018 21:21

Client ID: 1232-CCV

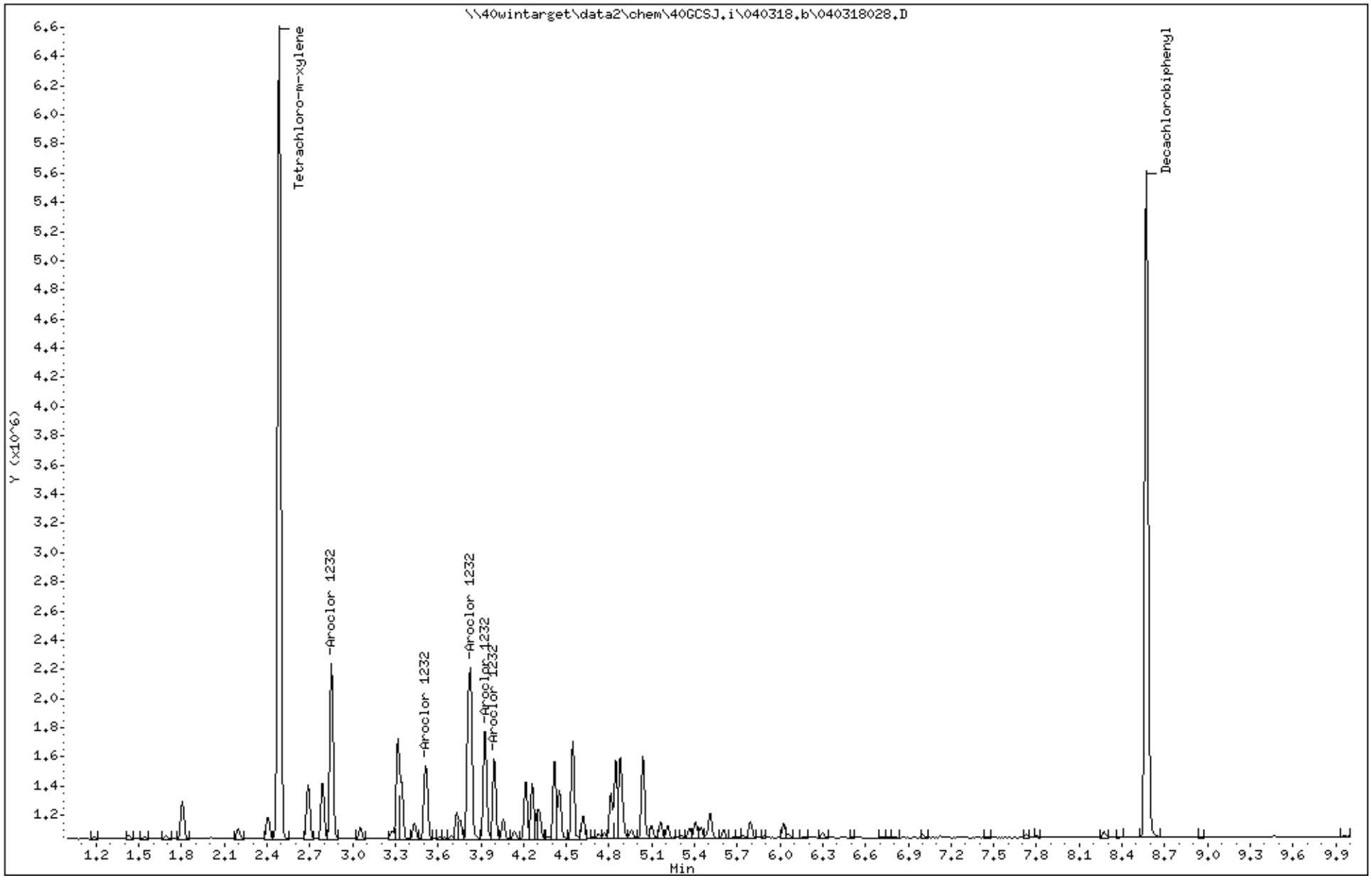
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

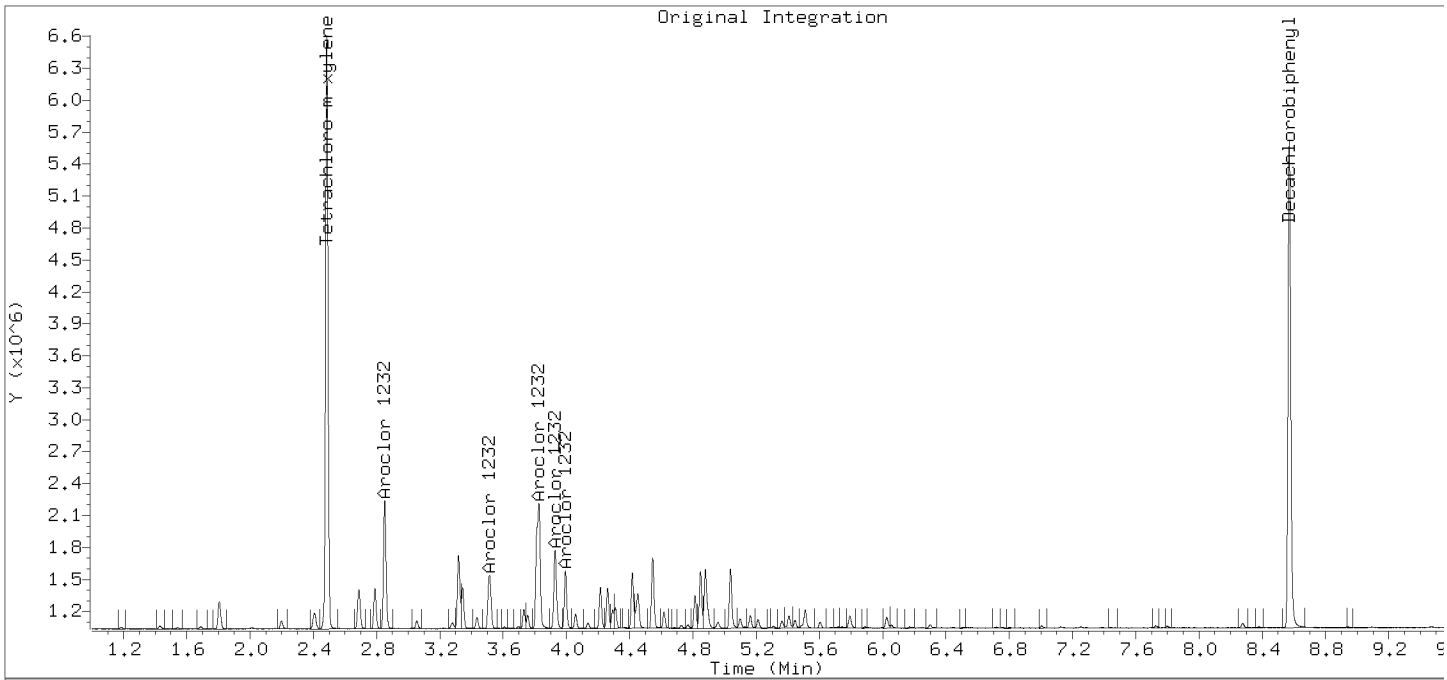
Operator: BLM

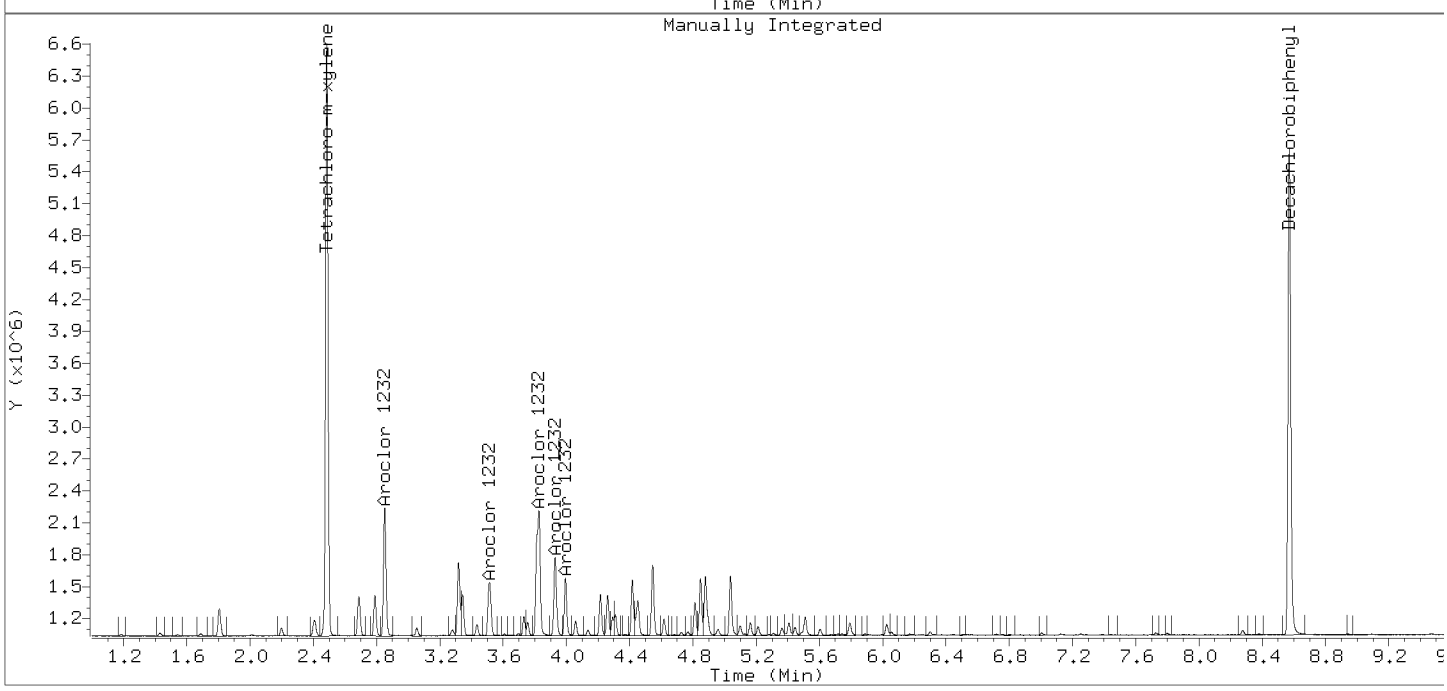
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318028.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 03-APR-2018 21:21 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1349409	1363090	BA
Aroclor 1232	1349409	1363090	BA
Aroclor 1232	1349409	1363090	BA
Aroclor 1232	1349409	1363090	BA
Aroclor 1232	1349409	1363090	BA
Tetrachloro-m-xylene	6067366	6067366	
Decachlorobiphenyl	5566141	5566141	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318036.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 03-APR-2018 23:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 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: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	24621	19089	0.775	0.06		
1.429	44506	31568	0.709	0.10		
1.537	13865	14439	1.041	0.03		
1.687	22028	18511	0.840	0.05		
1.804	15731	12463	0.792	0.03		
2.014	15714	10211	0.650	0.03		
2.405	119670	95398	0.797	0.29		
2.485	6129500	5794559	0.945	15.56	$ 2 Tetrachloro-m-xylene	
2.687	179923	149904	0.833	0.44		
2.788	277845	255806	0.921	0.68		
2.850	981999	906784	0.923	2.42		
3.054	143971	131513	0.913	0.35		
3.277	26427	19972	0.756	0.06		
3.317	1321779	1223667	0.926	3.26	3 Aroclor 1242	BA
3.344	773072	700059	0.906	1.91		
3.434	213448	189892	0.890	0.52		
3.513	1311593	938402	0.715	3.24	3 Aroclor 1242	BA
3.609	19010	18527	0.975	0.04		
3.643	25536	15673	0.614	0.06		
3.695	37692	37551	0.996	0.09		
3.731	332177	326949	0.984	0.82		
3.755	228694	211796	0.926	0.56		
3.827	3784348	2155234	0.570	9.34	3 Aroclor 1242	BA
3.928	1618224	1343892	0.830	3.99	3 Aroclor 1242	BA
3.994	1075692	1016782	0.945	2.65	3 Aroclor 1242	BA
4.058	320655	281675	0.878	0.79		
4.137	126572	108650	0.858	0.31		
4.214	886949	828972	0.935	2.19		
4.261	859085	807725	0.940	2.12		
4.292	347694	355756	1.023	0.85		
4.309	458317	409002	0.892	1.13		
4.373	30626	21448	0.700	0.07		
4.417	1188667	1078511	0.907	2.93		
4.452	915901	695208	0.759	2.26		
4.545	1546014	1392234	0.901	3.81		
4.617	351425	311383	0.886	0.86		
4.680	30040	21846	0.727	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.726	76413	64599	0.845	0.18	
4.769	87125	77633	0.891	0.21	
4.813	719667	690823	0.960	1.77	
4.847	1233355	1159456	0.940	3.04	
4.878	1602562	1179041	0.736	3.95	
4.958	185144	142143	0.768	0.45	
5.037	1318914	1201598	0.911	3.25	
5.098	282517	215393	0.762	0.69	
5.162	329991	288287	0.874	0.81	
5.212	252479	219064	0.868	0.62	
5.284	23994	20005	0.834	0.05	
5.309	57147	46099	0.807	0.14	
5.363	213284	184005	0.863	0.52	
5.407	352163	289132	0.821	0.87	
5.446	228179	194907	0.854	0.56	
5.509	574211	450202	0.784	1.41	
5.604	168395	147768	0.878	0.41	
5.668	15667	12711	0.811	0.03	
5.716	33696	29972	0.889	0.08	
5.741	49212	39618	0.805	0.12	
5.792	416783	321755	0.772	1.02	
5.889	67258	38228	0.568	0.16	
5.994	12308	12829	1.042	0.03	
6.024	335539	274783	0.819	0.82	
6.053	68429	56580	0.827	0.16	
6.171	22791	21684	0.951	0.05	
6.299	107087	89966	0.840	0.26	
6.335	26822	19142	0.714	0.06	
6.375	18865	14997	0.795	0.04	
6.536	34784	33114	0.952	0.08	
6.803	22508	20059	0.891	0.05	
7.254	18475	12148	0.658	0.04	
7.729	31743	24882	0.784	0.07	
7.800	28912	20918	0.724	0.07	
8.277	55349	42075	0.760	0.13	
8.378	10044	8698	0.866	0.02	
8.572	5569508	4721583	0.848	13.76	$ 12 Decachlorobiphenyl
8.937	9676	6811	0.704	0.02	
9.957	14964	8384	0.560	0.03	
	40474967	34352143		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318036.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 03-APR-2018 23:28
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 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: 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	6129500	0.05000	0.050			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1321778	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1311592	0.50000	0.52	0.00- 20.00	99.23	BA
3.827	3.827	0.000	3784347	0.50000	0.53	0.00- 20.00	286.31	BA
3.928	3.929	-0.001	1618223	0.50000	0.53	0.00- 20.00	122.43	BA
3.993	3.995	-0.002	1075692	0.50000	0.52	0.00- 20.00	81.38	BA
Average of Peak Amounts =					0.52400			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5569507	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.

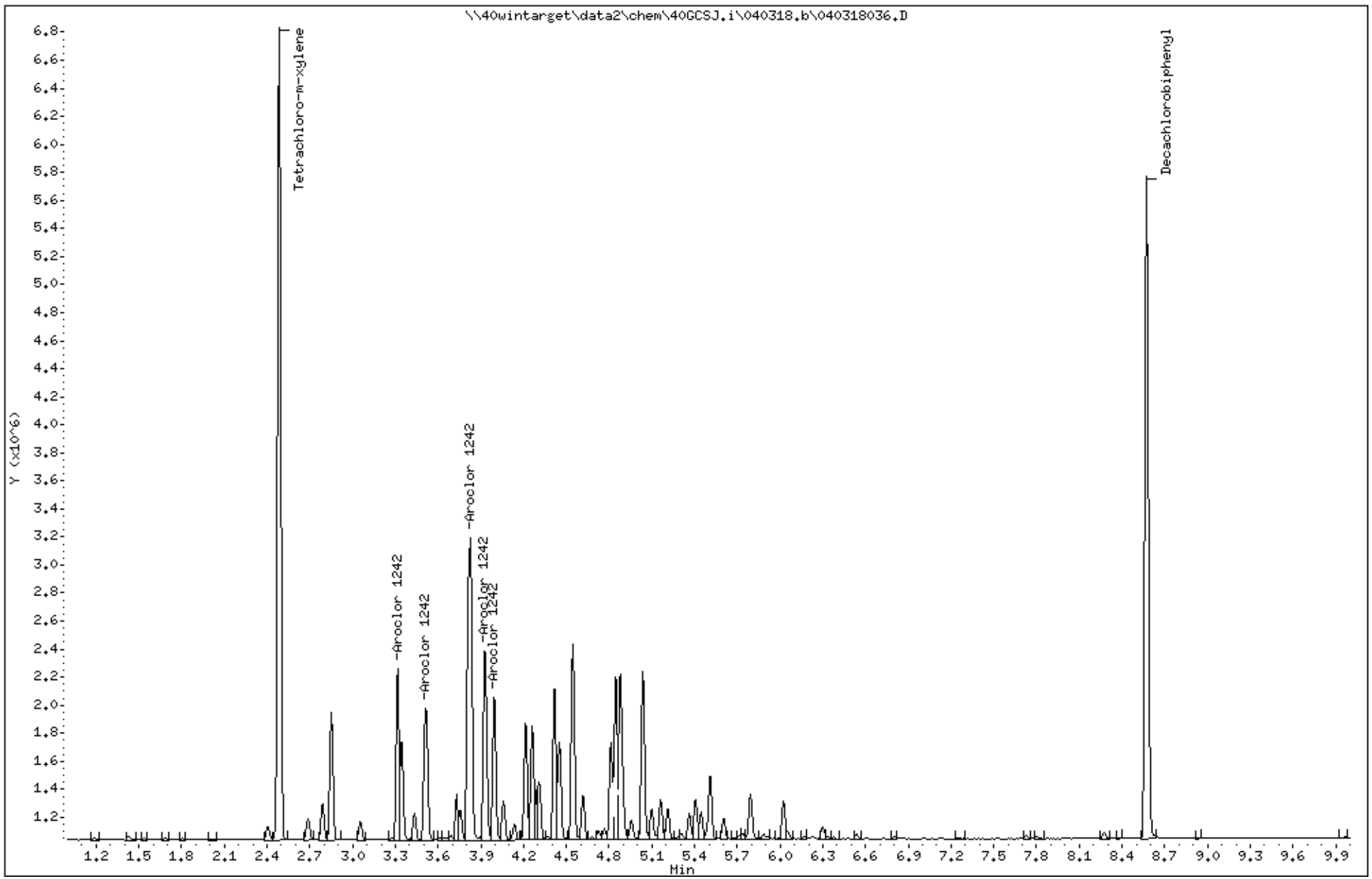
Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318036.D
Date : 03-APR-2018 23:28
Client ID: 1242-CCV
Sample Info: 1242-CCV, 185544:1

Instrument: 40GCSJ.i

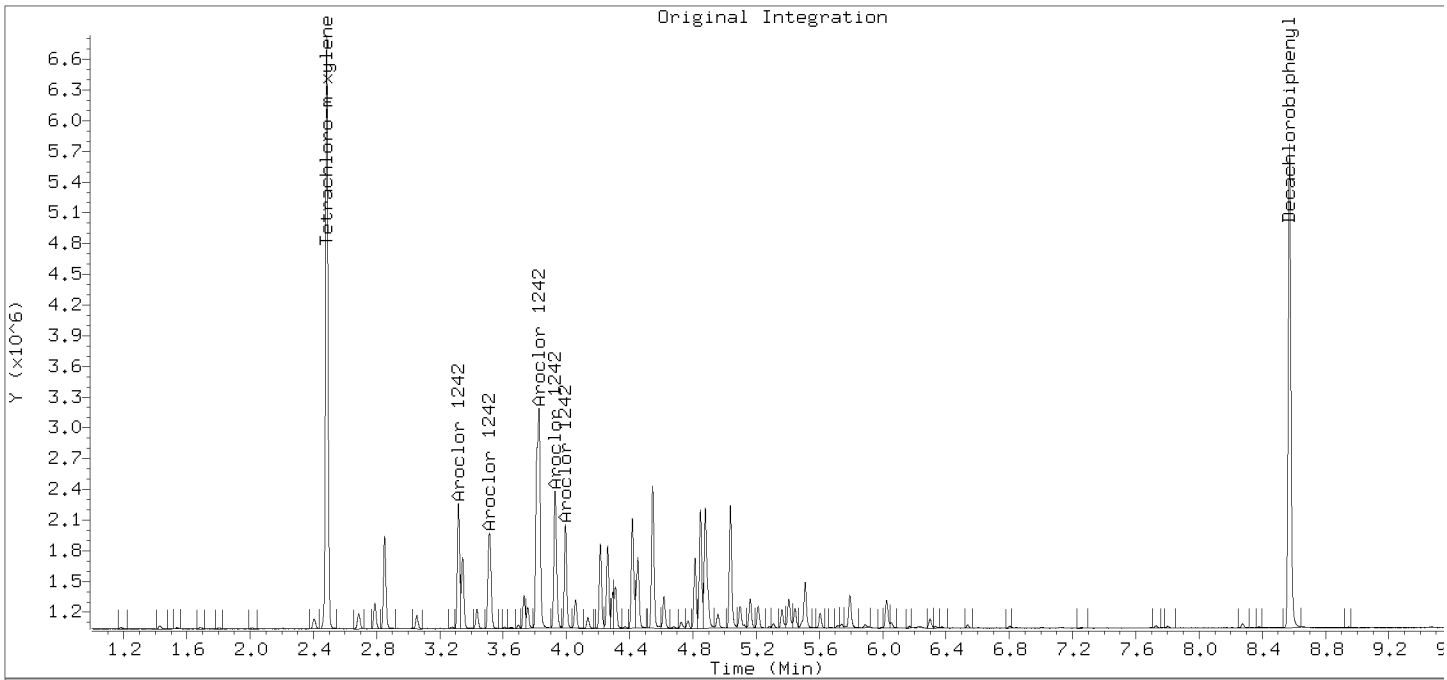
Operator: BLM

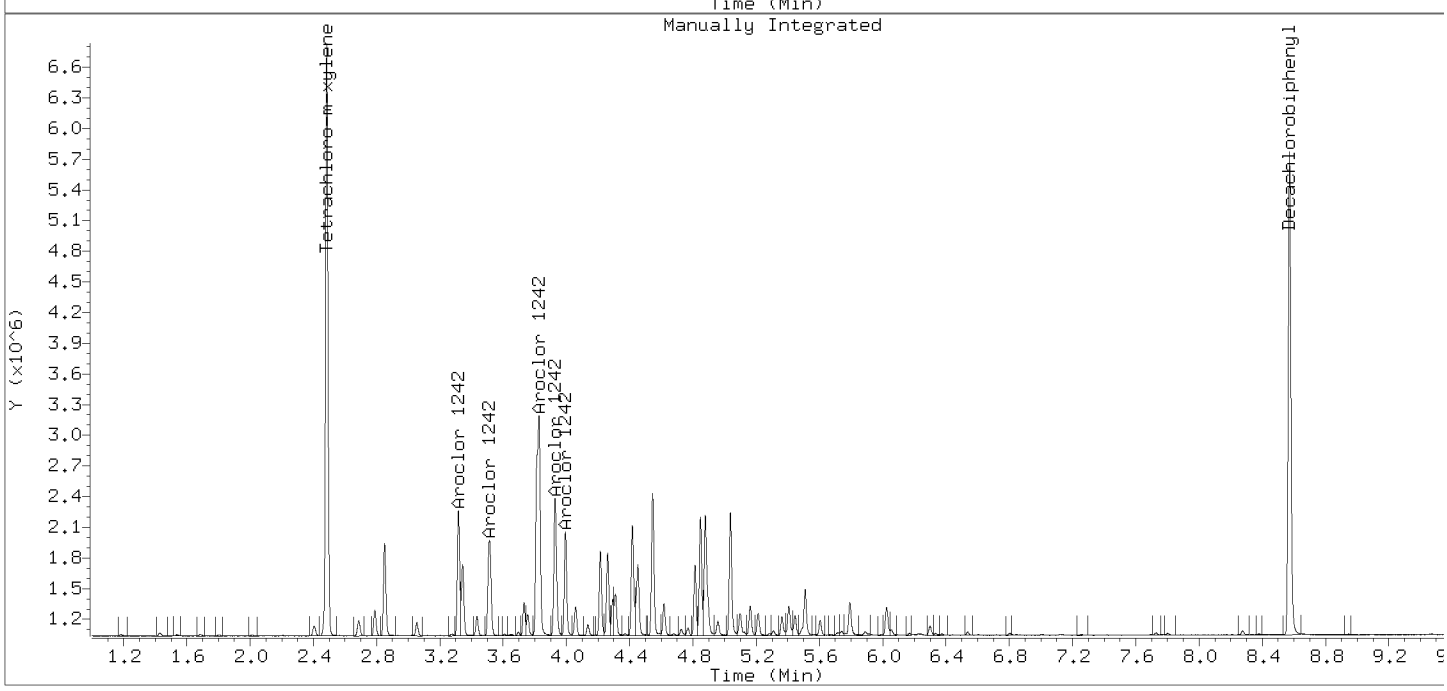
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318036.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 03-APR-2018 23:28 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1316153	1321778	BA
Aroclor 1242	1316153	1321778	BA
Aroclor 1242	1316153	1321778	BA
Aroclor 1242	1316153	1321778	BA
Aroclor 1242	1316153	1321778	BA
Tetrachloro-m-xylene	6129500	6129500	
Decachlorobiphenyl	5569507	5569507	

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.: 40157822

Date Extracted: 04/02/2018 07:11

Lab Sample ID: 1667509

Date Analyzed: 04/03/2018 16:04

Lab File ID: 040318.B\040318008.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\040318.b\040318008.D
Lab Smp Id: 1667509 Client Smp ID: MB
Inj Date : 03-APR-2018 16:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1667509,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.189	12470	10523	0.844	0.06		
1.534	9496	6438	0.678	0.05		
1.683	11373	8289	0.729	0.06		
2.007	12814	9472	0.739	0.06		
2.198	55457	31324	0.565	0.29		
2.486	8709722	7973262	0.915	46.66	$ 2 Tetrachloro-m-xylene	
2.789	18964	16054	0.847	0.10		
3.993	12184	6997	0.574	0.06		
6.552	11108	6033	0.543	0.05		
7.122	26982	17486	0.648	0.14		
7.694	12441	11896	0.956	0.06		
7.728	55880	48333	0.865	0.29		
7.800	49290	38086	0.773	0.26		
8.276	93820	81047	0.864	0.50		
8.383	18437	12418	0.674	0.09		
8.571	9504663	8010524	0.843	51.02	$ 12 Decachlorobiphenyl	
8.934	10250	7242	0.707	0.05		
9.465	25198	14413	0.572	0.13		
9.963	14075	12652	0.899	0.07		
	18664625	16322489		100.000		

Total unknown % area = 2.3

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318008.D
Lab Smp Id: 1667509 Client Smp ID: MB
Inj Date : 03-APR-2018 16:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1667509,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.486	2.484	0.002	8709722	0.07064	35			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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

---

7 Aroclor 1254 CAS #: 11097-69-1

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

---

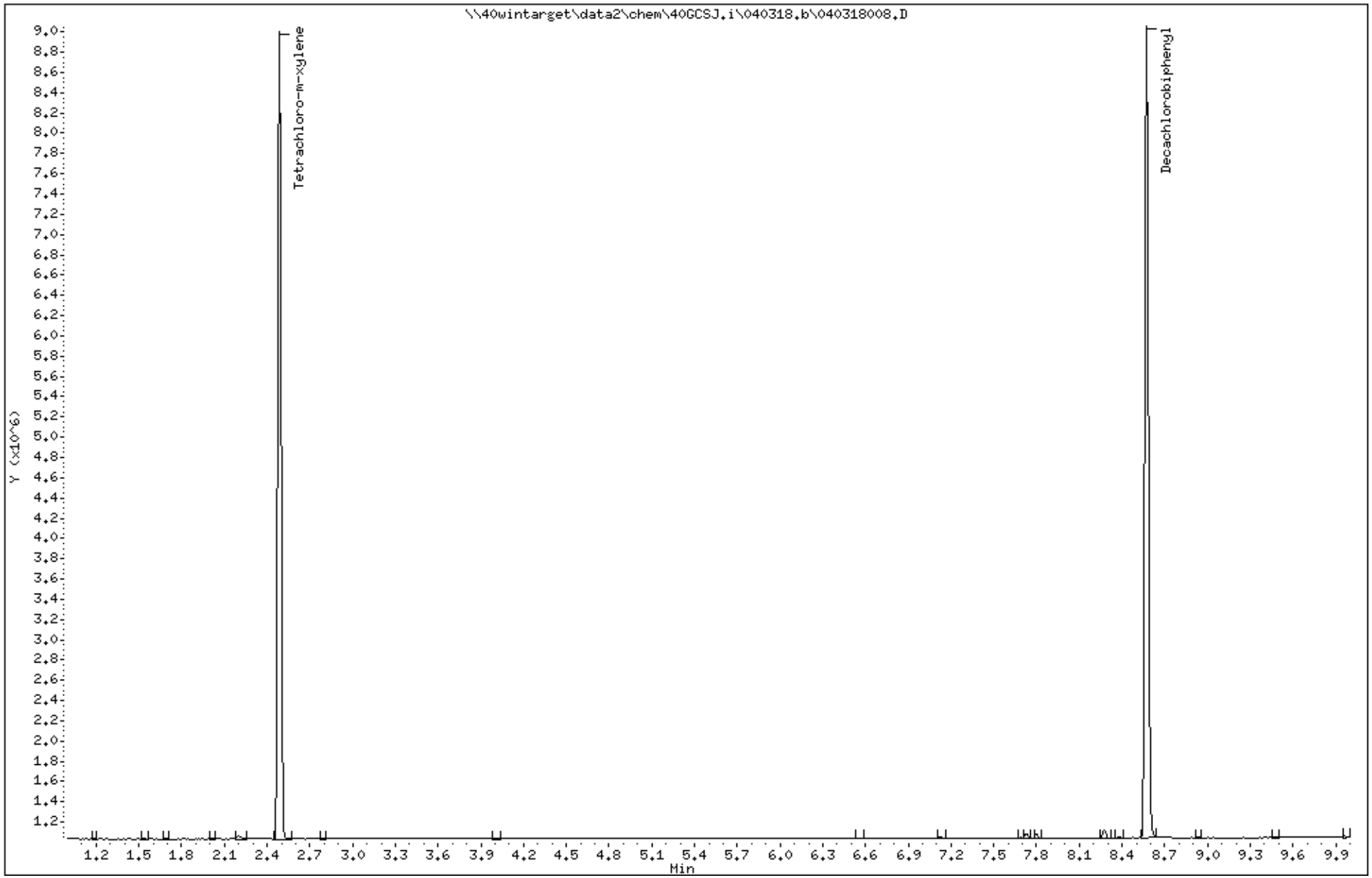
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.571	8.571	0.000	9504663	0.08675		43		

Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318008.D
Date : 03-APR-2018 16:04
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1667509,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 16:04 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1667509

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	8709722	8709722	
Decachlorobiphenyl	9504663	9504663	

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.: 40157822

Date Extracted: 04/02/2018 07:11

Lab Sample ID: 1667510

Date Analyzed: 04/03/2018 16:20

Lab File ID: 040318.B\040318009.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)	219	
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\040318.b\040318009.D
Lab Smp Id: 1667510 Client Smp ID: MBLCS
Inj Date : 03-APR-2018 16:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1667510,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	18698	15519	0.830	0.04		
1.536	12497	8158	0.653	0.02		
1.687	10022	10302	1.028	0.02		
1.804	22277	14370	0.645	0.05		
2.200	38648	27566	0.713	0.08		
2.405	107548	80621	0.750	0.24		
2.485	9880706	9131279	0.924	22.88	$ 2 Tetrachloro-m-xylene	
2.687	155080	125882	0.812	0.35		
2.791	193147	173642	0.899	0.44		
2.851	863991	764558	0.885	2.00		
3.055	114625	98573	0.860	0.26		
3.281	22083	16614	0.752	0.05		
3.318	1109148	1008807	0.910	2.56	3 Aroclor 1242	BA
3.345	620403	577841	0.931	1.43		
3.434	174308	157319	0.903	0.40		
3.514	1089285	796533	0.731	2.52	3 Aroclor 1242	BA
3.653	20178	14717	0.729	0.04		
3.698	32129	29493	0.918	0.07		
3.732	282308	277065	0.981	0.65		
3.757	186024	174639	0.939	0.43		
3.826	3147061	1789359	0.569	7.29	3 Aroclor 1242	BA
3.930	1349841	1102945	0.817	3.12	3 Aroclor 1242	BA
3.994	889269	848046	0.954	2.06	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.058	241519	225340	0.933	0.55	
4.137	96609	88325	0.914	0.22	
4.215	736248	688757	0.935	1.70	
4.262	694299	662888	0.955	1.60	
4.292	289292	291331	1.007	0.67	
4.310	355141	325178	0.916	0.82	
4.372	21980	17962	0.817	0.05	
4.417	975854	921796	0.945	2.26	
4.452	742178	544915	0.734	1.71	
4.545	1239059	1113853	0.899	2.87	
4.617	287633	256344	0.891	0.66	
4.680	21743	17513	0.805	0.05	
4.726	63207	51551	0.816	0.14	
4.768	65762	61760	0.939	0.15	
4.813	564341	532857	0.944	1.30	
4.848	992969	940616	0.947	2.30	
4.878	1282643	937953	0.731	2.97	
4.959	141993	107149	0.755	0.32	
5.037	1049026	931924	0.888	2.43	
5.098	198001	163945	0.828	0.45	
5.162	251066	223063	0.888	0.58	
5.212	182751	158276	0.866	0.42	
5.284	16185	14591	0.902	0.03	
5.309	42900	36357	0.847	0.09	
5.364	158589	134025	0.845	0.36	
5.407	266263	222149	0.834	0.61	
5.445	164258	141773	0.863	0.38	
5.510	433489	321752	0.742	1.00	
5.606	126487	110557	0.874	0.29	
5.716	26573	20800	0.783	0.06	
5.739	33755	29291	0.868	0.07	
5.792	270797	216113	0.798	0.62	
5.889	31988	26387	0.825	0.07	
6.024	263391	197181	0.749	0.61	
6.172	17750	14831	0.836	0.04	
6.192	13582	11529	0.849	0.03	
6.226	10743	9061	0.843	0.02	
6.299	55223	46195	0.837	0.12	
6.339	14729	9179	0.623	0.03	
6.536	16382	14940	0.912	0.03	
6.719	13002	10007	0.770	0.03	
6.801	13482	10201	0.757	0.03	
7.008	15562	14688	0.944	0.03	
7.125	26813	18023	0.672	0.06	
7.393	10256	7670	0.748	0.02	
7.688	11918	10983	0.922	0.02	
7.730	50149	45705	0.911	0.11	
7.800	44544	38180	0.857	0.10	
8.275	93963	81381	0.866	0.21	
8.571	10073009	8421835	0.836	23.67	$ 12 Decachlorobiphenyl
9.964	18542	14985	0.808	0.04	
	43166914	36757513		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318009.D
Lab Smp Id: 1667510 Client Smp ID: MBLCS
Inj Date : 03-APR-2018 16:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1667510,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	9880705	0.08014	40			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1109148	0.43784	220	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	1089284	0.43225	220	0.00- 20.00	98.21	BA
3.826	3.827	-0.001	3147061	0.44222	220	0.00- 20.00	283.74	BA
3.929	3.929	0.000	1349840	0.44380	220	0.00- 20.00	121.70	BA
3.994	3.995	-0.001	889268	0.43427	220	0.00- 20.00	80.18	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

8.570	8.571	-0.001	10073008	0.09194	46	

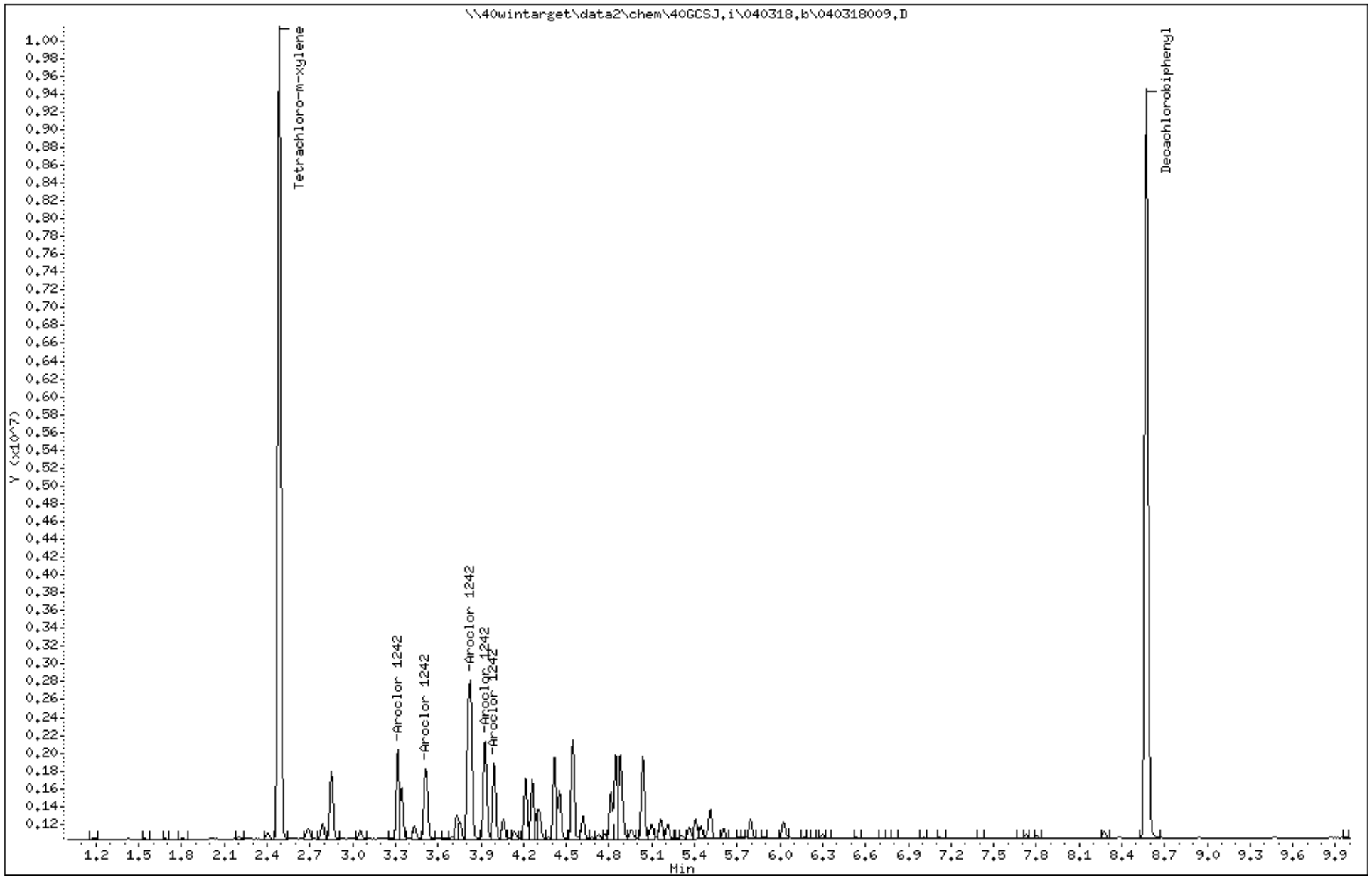
QC Flag Legend

M - Compound response manually integrated.

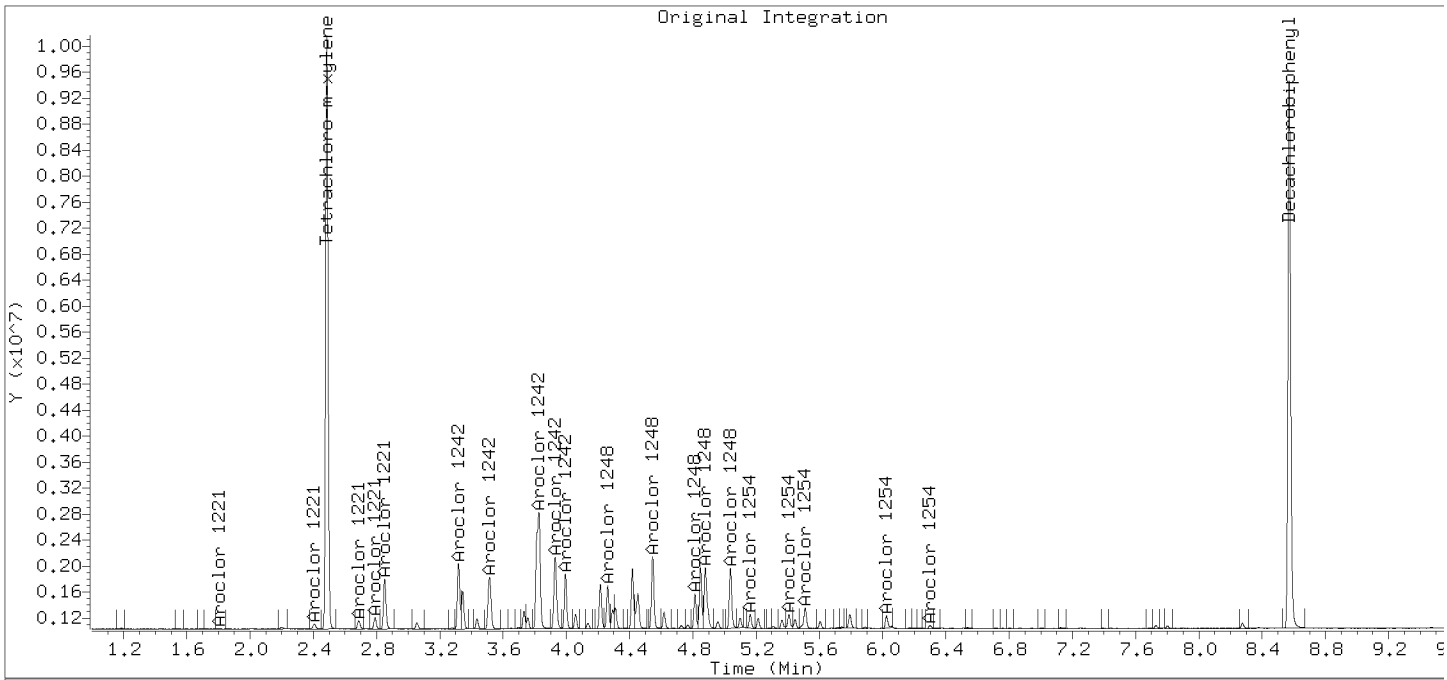
Review Codes Legend

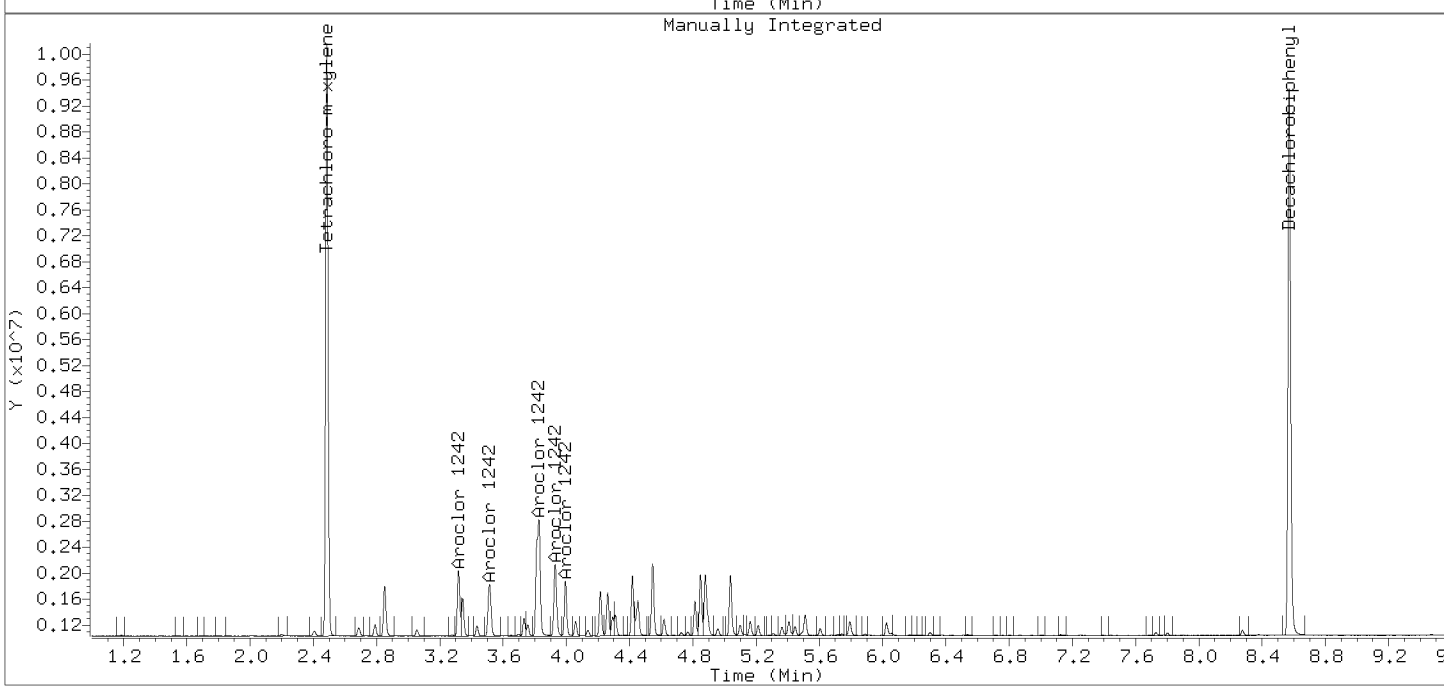
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318009.D
Date : 03-APR-2018 16:20
Client ID: MBLCS
Instrument: 40GCSJ.i
Sample Info: 1667510,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 16:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1667510





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1103102	0	
Aroclor 1016	1103102	0	
Aroclor 1016	1103102	0	
Aroclor 1016	1103102	0	
Aroclor 1016	1103102	0	
Aroclor 1221	22277	0	
Aroclor 1221	22277	0	
Aroclor 1221	22277	0	
Aroclor 1221	22277	0	
Aroclor 1221	22277	0	
Aroclor 1232	851054	0	
Aroclor 1232	851054	0	
Aroclor 1232	851054	0	
Aroclor 1232	851054	0	

Aroclor 1232	851054	0	
Aroclor 1242	1103102	1109148	BA
Aroclor 1242	1103102	1109148	BA
Aroclor 1242	1103102	1109148	BA
Aroclor 1242	1103102	1109148	BA
Aroclor 1242	1103102	1109148	BA
Aroclor 1248	687721	0	
Aroclor 1248	687721	0	
Aroclor 1248	687721	0	
Aroclor 1248	687721	0	
Aroclor 1248	687721	0	
Aroclor 1254	228797	0	
Aroclor 1254	228797	0	
Aroclor 1254	228797	0	
Aroclor 1254	228797	0	
Aroclor 1254	228797	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9880705	9880705	
Decachlorobiphenyl	10073008	10073008	

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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: 10/03/2017 10:20

Matrix: Tissue SDG No.: 40157822

Date Extracted: 04/02/2018 07:11

Lab Sample ID: 1667511

Date Analyzed: 04/03/2018 22:09

Lab File ID: 040318.B\040318031.D

Initial wt/vol: 10.0292 Final wt/vol: 5 mL Dilution: 2

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.7	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	281	
12672-29-6	PCB-1248 (Aroclor 1248)	386	
11097-69-1	PCB-1254 (Aroclor 1254)	309	
11096-82-5	PCB-1260 (Aroclor 1260)	308	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318031.D
Lab Smp Id: 1667511 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 22:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1667511 x2,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.029	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.805	12887	9209	0.715	0.01		
2.172	16788	9762	0.581	0.02		
2.315	10892	8869	0.814	0.01		
2.406	83354	62747	0.753	0.10		
2.485	5640863	5310274	0.941	7.08	$ 2 Tetrachloro-m-xylene	
2.688	89624	72659	0.811	0.11		
2.791	114790	103758	0.904	0.14		
2.851	495143	450879	0.911	0.62		
2.975	24455	18623	0.762	0.03		
3.015	14050	13887	0.988	0.01		
3.055	89255	80735	0.905	0.11		
3.275	13714	11078	0.808	0.01		
3.317	665440	614665	0.924	0.83	3 Aroclor 1242	BA
3.345	392294	358210	0.913	0.49		
3.435	148865	130201	0.875	0.18		
3.514	696638	504717	0.725	0.87	3 Aroclor 1242	BA
3.644	17357	15406	0.888	0.02		
3.697	22587	20456	0.906	0.02		
3.733	224639	224400	0.999	0.28		
3.755	138540	129656	0.936	0.17		
3.827	2137395	1261780	0.590	2.68	3 Aroclor 1242	BA
3.929	863461	691566	0.801	1.08	3 Aroclor 1242	BA
3.994	589747	560773	0.951	0.74	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.058	187863	165438	0.881	0.23	
4.136	74580	62592	0.839	0.09	
4.215	1170712	1091805	0.933	1.47	
4.261	1266762	1177087	0.929	1.59	6 Aroclor 1248
4.292	1381624	1016767	0.736	1.73	
4.371	21506	16157	0.751	0.02	
4.417	874697	821121	0.939	1.09	
4.452	661543	517075	0.782	0.83	
4.546	1290815	1190257	0.922	1.62	6 Aroclor 1248
4.588	104173	96067	0.922	0.13	
4.617	246993	218668	0.885	0.31	
4.682	117743	102531	0.871	0.14	
4.736	170437	130982	0.769	0.21	
4.768	243701	224419	0.921	0.30	
4.813	800763	753804	0.941	1.00	6 Aroclor 1248
4.847	813587	769925	0.946	1.02	
4.880	2210160	1133117	0.513	2.77	6 Aroclor 1248
4.957	595286	518835	0.872	0.74	
5.036	900582	813784	0.904	1.13	6 Aroclor 1248
5.100	1183735	1040275	0.879	1.48	
5.161	2098680	1810073	0.862	2.63	7 Aroclor 1254
5.213	1626814	1397958	0.859	2.04	
5.284	178968	166851	0.932	0.22	
5.309	392344	322842	0.823	0.49	
5.363	625780	572957	0.916	0.78	
5.406	1224387	1080368	0.882	1.53	7 Aroclor 1254
5.450	2193556	1887066	0.860	2.75	
5.479	198401	199782	1.007	0.24	
5.509	2163179	1879911	0.869	2.71	7 Aroclor 1254
5.577	196661	177650	0.903	0.24	
5.605	281072	237888	0.846	0.35	
5.674	863698	812611	0.941	1.08	
5.710	501310	379794	0.758	0.62	
5.742	657316	520942	0.793	0.82	
5.789	3610560	2680780	0.742	4.53	
5.884	370417	260649	0.704	0.46	
5.930	340582	282795	0.830	0.42	
5.994	1092545	1002471	0.918	1.37	
6.026	1336647	1195749	0.895	1.67	7 Aroclor 1254
6.055	3810324	3187691	0.837	4.78	
6.168	889522	620348	0.697	1.11	
6.227	239790	294317	1.227	0.30	
6.241	499690	367409	0.735	0.62	
6.300	4654746	3820514	0.821	5.84	8 Aroclor 1260
6.332	518195	457822	0.883	0.65	
6.373	189052	161719	0.855	0.23	
6.433	523352	439234	0.839	0.65	
6.509	1983810	1688937	0.851	2.49	
6.535	841259	782336	0.930	1.05	
6.560	719423	654809	0.910	0.90	
6.605	137848	119934	0.870	0.17	
6.660	130109	121917	0.937	0.16	
6.718	653429	588977	0.901	0.82	
6.758	676236	598414	0.885	0.84	
6.801	660679	607291	0.919	0.83	
6.838	352624	279078	0.791	0.44	
6.912	94409	94422	1.000	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.942	705588	656122	0.930	0.88	
7.004	2389891	2044349	0.855	3.00	8 Aroclor 1260
7.035	180306	185440	1.028	0.22	
7.074	39918	42271	1.059	0.05	
7.120	65826	53012	0.805	0.08	
7.251	1040464	943930	0.907	1.30	8 Aroclor 1260
7.281	292276	244611	0.837	0.36	
7.389	942246	819096	0.869	1.18	
7.442	943905	826814	0.876	1.18	8 Aroclor 1260
7.495	29034	19354	0.667	0.03	
7.551	38272	36965	0.966	0.04	
7.690	226019	211837	0.937	0.28	
7.727	282745	244479	0.865	0.35	
7.762	31301	30256	0.967	0.03	
7.811	311708	231961	0.744	0.39	
7.864	17772	19391	1.091	0.02	
7.900	631197	541275	0.858	0.79	8 Aroclor 1260
7.958	81349	53518	0.658	0.10	
8.050	151893	131405	0.865	0.19	
8.275	740264	642468	0.868	0.93	
8.376	10985	9341	0.850	0.01	
8.571	5872087	5110122	0.870	7.88	$ 12 Decachlorobiphenyl
8.727	114312	75230	0.658	0.14	
9.055	50945	35615	0.699	0.06	
9.168	41288	32347	0.783	0.05	
9.737	14826	11927	0.804	0.01	
	79593869	67532458		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318031.D
Lab Smp Id: 1667511 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 22:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1667511 x2,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.029	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5640862	0.04575	46			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	665439	0.26269	260	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	696638	0.27644	280	0.00- 20.00	104.69	BA
3.826	3.827	-0.001	2137395	0.30035	300	0.00- 20.00	321.20	BA
3.929	3.929	0.000	863460	0.28389	280	0.00- 20.00	129.76	BA
3.993	3.995	-0.002	589746	0.28800	290	0.00- 20.00	88.63	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			
4.260	4.261	-0.001	1266762	0.54066	540	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1290814	0.31102	310	0.00- 20.00	101.90	BA
4.812	4.812	0.000	800763	0.39445	390	0.00- 20.00	63.21	BA
4.879	4.879	0.000	2210159	0.43875	440	0.00- 20.00	174.47	BA
5.036	5.038	-0.002	900582	0.25096	250	0.00- 20.00	71.09	BA
			Average of Peak Concentrations =		390			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2098680	0.40088	400	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1224386	0.28467	280	0.00- 20.00	58.34	BA
5.509	5.510	-0.001	2163179	0.27854	280	0.00- 20.00	103.07	BA
6.025	6.027	-0.002	1336646	0.27448	270	0.00- 20.00	63.69	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		310			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4654746	0.52523	520	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	2389891	0.23865	240	0.00- 20.00	51.34	CO
7.250	7.251	-0.001	1040463	0.21768	220	0.00- 20.00	22.35	CO
7.441	7.443	-0.002	943904	0.32380	320	0.00- 20.00	20.28	CO
7.899	7.901	-0.002	631197	0.23920	240	0.00- 20.00	13.56	CO
			Average of Peak Concentrations =		310			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5872087	0.05360	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\040318.b\040318031.D

Date : 03-APR-2018 22:09

Client ID: AT1-170616-01-SMB-0

Instrument: 40GCSJ.i

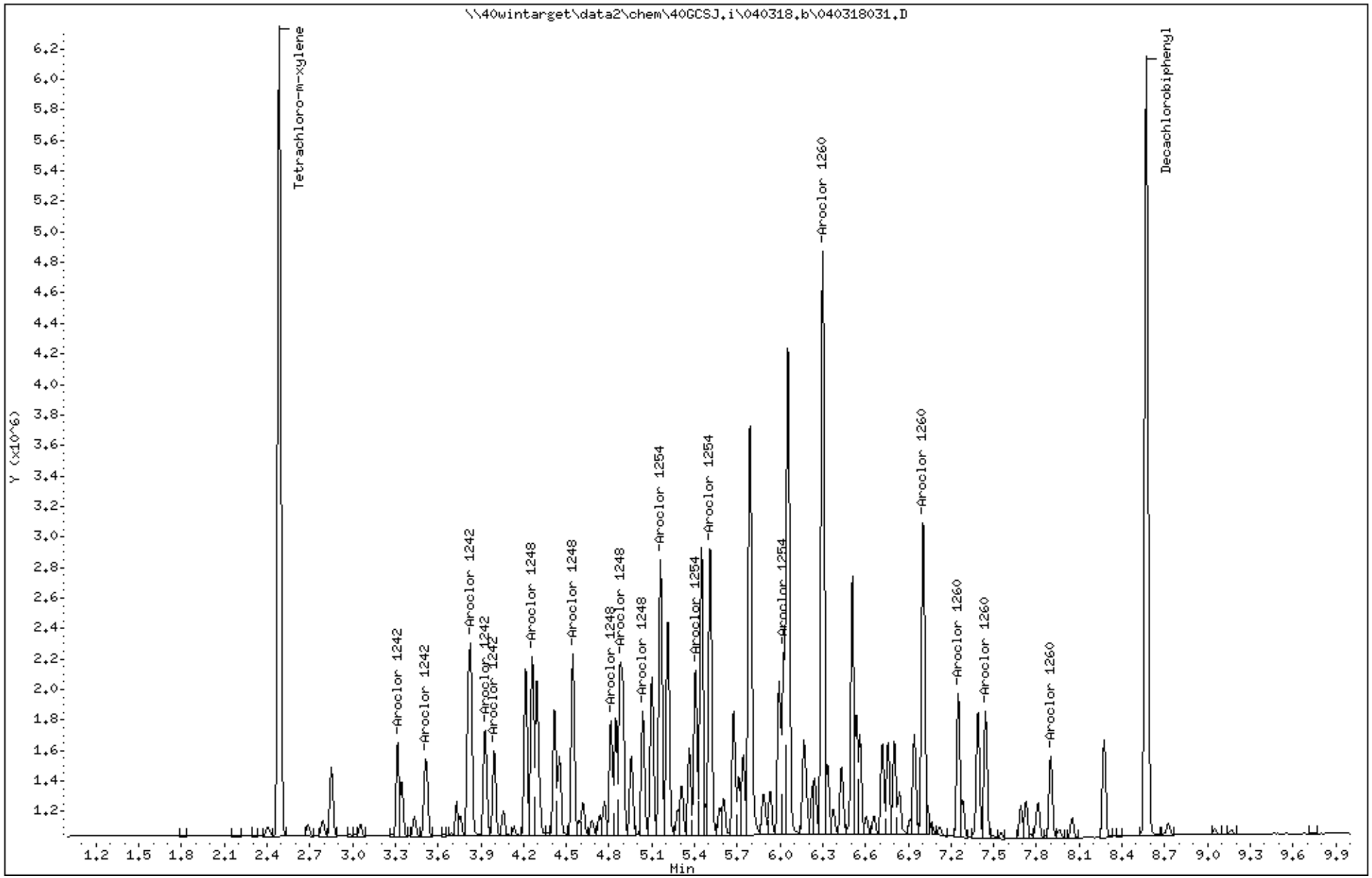
Sample Info: 1667511 x2,

Volume Injected (uL): 1.0

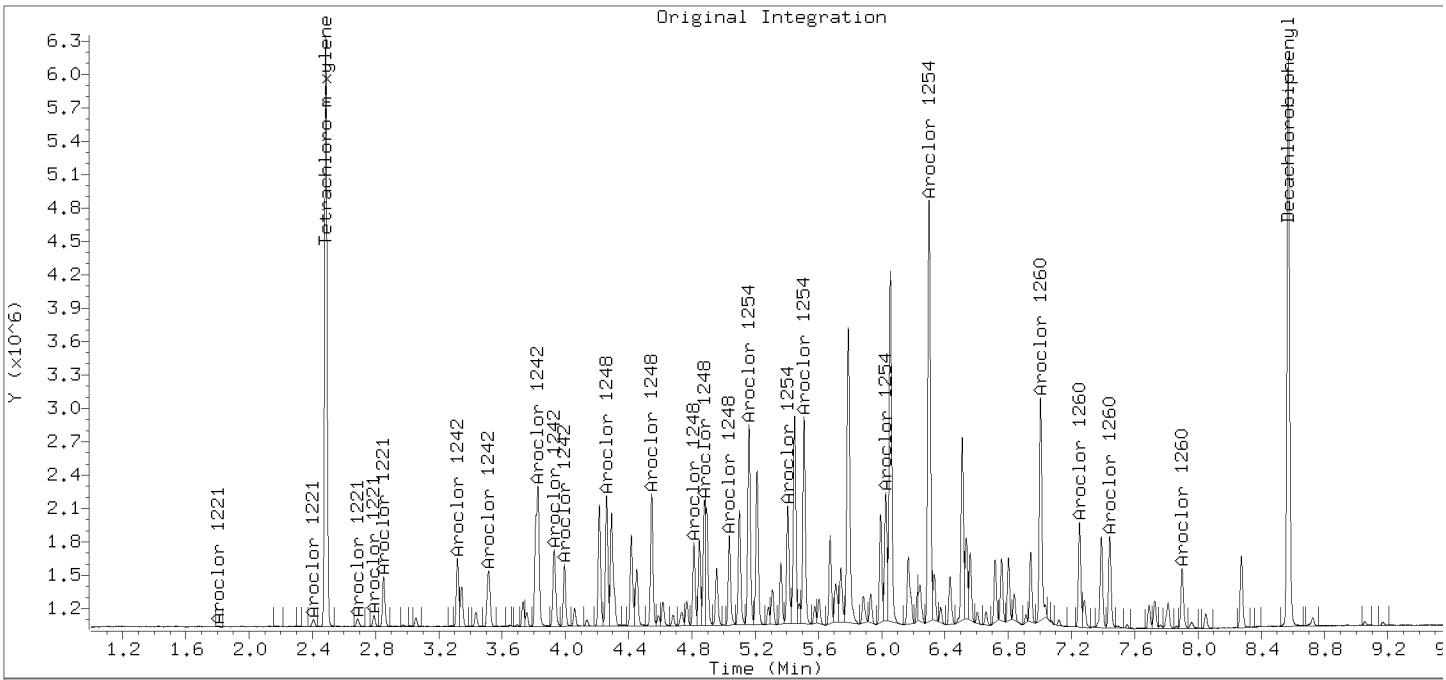
Operator: BLM

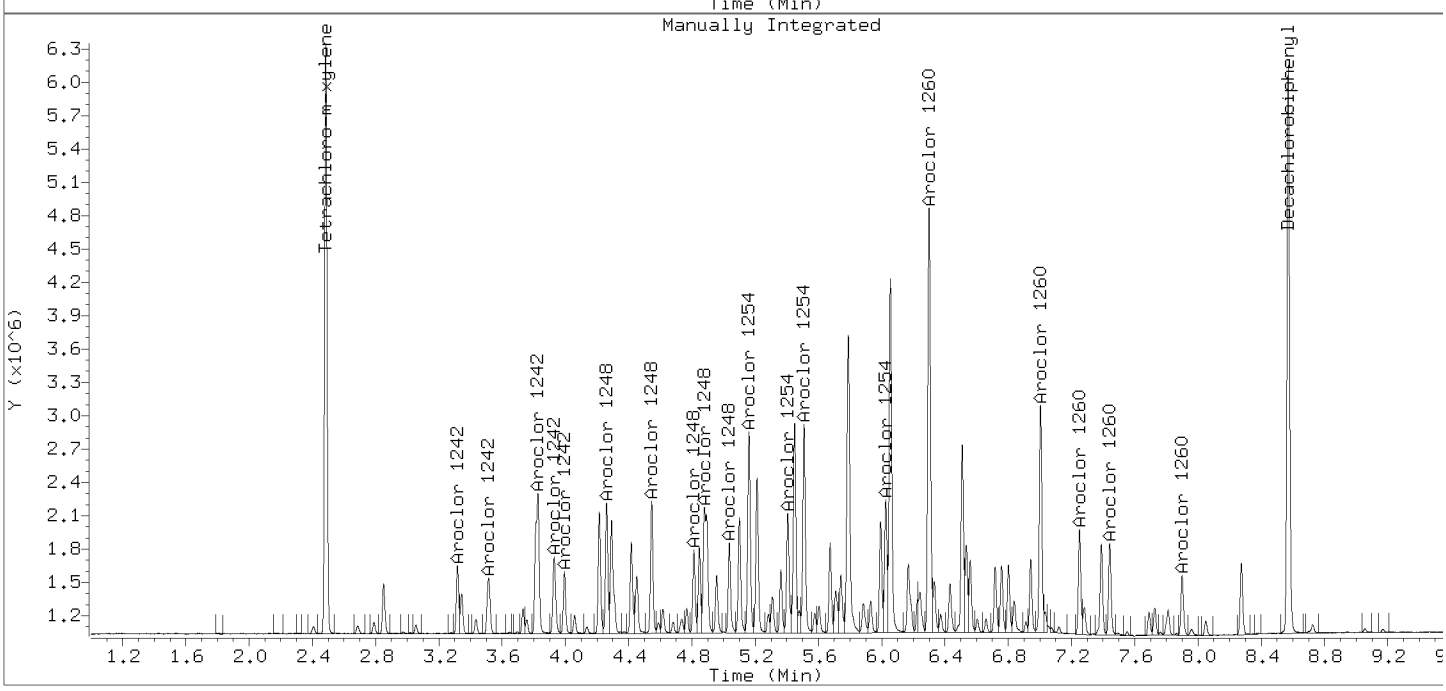
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 22:09 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1667511





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	661070	0	
Aroclor 1016	661070	0	
Aroclor 1016	661070	0	
Aroclor 1016	661070	0	
Aroclor 1016	661070	0	
Aroclor 1221	12887	0	
Aroclor 1221	12887	0	
Aroclor 1221	12887	0	
Aroclor 1221	12887	0	
Aroclor 1221	12887	0	
Aroclor 1232	484445	0	
Aroclor 1232	484445	0	
Aroclor 1232	484445	0	
Aroclor 1232	484445	0	

Aroclor 1232	484445	0	
Aroclor 1242	661070	665439	BA
Aroclor 1242	661070	665439	BA
Aroclor 1242	661070	665439	BA
Aroclor 1242	661070	665439	BA
Aroclor 1242	661070	665439	BA
Aroclor 1248	1256778	1266762	BA
Aroclor 1248	1256778	1266762	BA
Aroclor 1248	1256778	1266762	BA
Aroclor 1248	1256778	1266762	BA
Aroclor 1248	1256778	1266762	BA
Aroclor 1254	2059879	2098680	BA
Aroclor 1254	2059879	2098680	BA
Aroclor 1254	2059879	2098680	BA
Aroclor 1254	2059879	2098680	BA
Aroclor 1254	2059879	2098680	BA
Aroclor 1260	4546123	4654746	CO
Aroclor 1260	4546123	4654746	CO
Aroclor 1260	4546123	4654746	CO
Aroclor 1260	4546123	4654746	CO
Aroclor 1260	4546123	4654746	CO
Tetrachloro-m-xylene	5640862	5640862	
Decachlorobiphenyl	5872087	5872087	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/03/2017 10:20

Matrix: Tissue SDG No.: 40157822

Date Extracted: 04/02/2018 07:11

Lab Sample ID: 1667512

Date Analyzed: 04/03/2018 22:25

Lab File ID: 040318.B\040318032.D

Initial wt/vol: 10.0317 Final wt/vol: 5 mL Dilution: 2

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.7	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	221	
11097-69-1	PCB-1254 (Aroclor 1254)	266	
11096-82-5	PCB-1260 (Aroclor 1260)	289	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318032.D
Lab Smp Id: 1667512 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 22:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1667512 x2,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32 QC Sample: FIELDDUP
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.032	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.410	28481	25908	0.910	0.04		
2.484	5436871	5244992	0.965	8.56	$ 2 Tetrachloro-m-xylene	
2.785	13132	11689	0.890	0.02		
2.848	22305	12672	0.568	0.03		
2.971	18673	15343	0.822	0.02		
3.018	11089	12253	1.105	0.01		
3.053	27774	28130	1.013	0.04		
3.316	32113	30798	0.959	0.05		
3.344	44717	41585	0.930	0.07		
3.434	50476	42428	0.841	0.07		
3.518	76336	67408	0.883	0.12		
3.647	12450	10427	0.838	0.01		
3.732	71726	68710	0.958	0.11		
3.755	35534	29228	0.823	0.05		
3.826	325029	186766	0.575	0.51		
3.938	88624	67996	0.767	0.13		
3.994	81642	73510	0.900	0.12		
4.059	45711	38381	0.840	0.07		
4.135	18254	14049	0.770	0.02		
4.214	759050	707848	0.933	1.19		
4.261	874141	836925	0.957	1.37	6 Aroclor 1248	BA
4.292	987174	828118	0.839	1.55		
4.416	308049	286170	0.929	0.48		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.453	240888	212921	0.884	0.37	
4.545	582750	539849	0.926	0.91	6 Aroclor 1248
4.589	89934	81332	0.904	0.14	
4.617	84428	68435	0.811	0.13	
4.681	104441	90622	0.868	0.16	
4.736	131713	111789	0.849	0.20	
4.767	214812	201732	0.939	0.33	
4.812	460028	430689	0.936	0.72	6 Aroclor 1248
4.847	230786	212393	0.920	0.36	
4.893	1438309	846848	0.589	2.26	6 Aroclor 1248
4.957	494402	435275	0.880	0.77	
5.037	288975	235633	0.815	0.45	6 Aroclor 1248
5.100	1016911	898940	0.884	1.60	
5.160	1874526	1603607	0.855	2.95	7 Aroclor 1254
5.211	1444365	1260537	0.873	2.27	
5.283	164029	152098	0.927	0.25	
5.309	352134	287218	0.816	0.55	
5.363	512890	477254	0.931	0.80	
5.407	1032412	916072	0.887	1.62	7 Aroclor 1254
5.451	1981772	1759784	0.888	3.12	
5.477	175754	182934	1.041	0.27	
5.509	1830701	1580075	0.863	2.88	7 Aroclor 1254
5.578	182105	164673	0.904	0.28	
5.603	201912	170386	0.844	0.31	
5.674	810916	765471	0.944	1.27	
5.709	461181	360356	0.781	0.72	
5.742	582117	458101	0.787	0.91	
5.788	3274768	2409358	0.736	5.15	
5.884	327808	236942	0.723	0.51	
5.930	318999	273253	0.857	0.50	
5.993	1021483	942003	0.922	1.60	
6.026	1142605	981189	0.859	1.80	7 Aroclor 1254
6.054	3556574	2988587	0.840	5.60	
6.167	826897	560605	0.678	1.30	
6.227	246071	269273	1.094	0.38	
6.241	439830	343998	0.782	0.69	
6.299	4334946	3524959	0.813	6.83	8 Aroclor 1260
6.332	482070	430063	0.892	0.75	
6.373	176254	144223	0.818	0.27	
6.432	489122	415392	0.849	0.77	
6.509	1883883	1619567	0.860	2.96	
6.535	762888	739134	0.969	1.20	
6.560	682039	604947	0.887	1.07	
6.604	131527	112180	0.853	0.20	
6.660	122501	112701	0.920	0.19	
6.717	606470	546087	0.900	0.95	
6.758	632030	568982	0.900	0.99	
6.801	609174	547259	0.898	0.95	
6.839	325380	257237	0.791	0.51	
6.913	89067	87252	0.980	0.14	
6.942	666865	627733	0.941	1.05	
7.003	2272779	2000234	0.880	3.58	8 Aroclor 1260
7.033	209743	173899	0.829	0.33	
7.073	35075	38394	1.095	0.05	
7.122	61954	49389	0.797	0.09	
7.251	963920	864589	0.897	1.51	8 Aroclor 1260
7.281	283214	236064	0.834	0.44	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.335	11082	9899	0.893	0.01	
7.388	907655	785434	0.865	1.43	
7.443	893071	778919	0.872	1.40	8 Aroclor 1260
7.493	33209	20630	0.621	0.05	
7.551	33630	33635	1.000	0.05	
7.689	220925	200942	0.910	0.34	
7.728	266292	230839	0.867	0.41	
7.764	34799	29915	0.860	0.05	
7.813	297898	210046	0.705	0.46	
7.865	23241	18743	0.806	0.03	
7.899	599126	516493	0.862	0.94	8 Aroclor 1260
7.960	84426	51111	0.605	0.13	
8.049	149709	127097	0.849	0.23	
8.274	712965	612839	0.860	1.12	
8.380	11511	10862	0.944	0.01	
8.570	5668182	4744195	0.837	9.46	$ 12 Decachlorobiphenyl
8.725	91144	71151	0.781	0.14	
9.056	46306	35226	0.761	0.07	
9.167	38377	31276	0.815	0.06	
9.735	10854	9982	0.920	0.01	
	63464878	54421085		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040318.b\040318032.D
Lab Smp Id: 1667512 Client Smp ID: AT1-170616-01-SMB-0
Inj Date : 03-APR-2018 22:25
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1667512 x2,
Misc Info : 17614,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040318.b\pcba030618.m
Meth Date : 11-Apr-2018 12:07 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32 QC Sample: FIELDDUP
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.032	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.484	2.484	0.000	5436871	0.04410	44			

---

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	874140	0.37309	370	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	582749	0.14041	140	0.00- 20.00	66.67	BA
4.812	4.812	0.000	460027	0.22661	220	0.00- 20.00	52.63	BA
4.893	4.879	0.014	1438309	0.28552	280	0.00- 20.00	164.54	BA
5.036	5.038	-0.002	288975	0.08053	80	0.00- 20.00	33.06	BA
Average of Peak Concentrations =					220			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1874526	0.35806	360	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1032411	0.24004	240	0.00- 20.00	55.08	BA
5.509	5.510	-0.001	1830701	0.23573	230	0.00- 20.00	97.66	BA
6.025	6.027	-0.002	1142604	0.23464	230	0.00- 20.00	60.95	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					270			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4334945	0.48914	490	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	2272778	0.22695	230	0.00- 20.00	52.43	BA
7.250	7.251	-0.001	963920	0.20167	200	0.00- 20.00	22.24	BA
7.442	7.443	-0.001	893071	0.30636	300	0.00- 20.00	20.60	BA
7.898	7.901	-0.003	599126	0.22705	230	0.00- 20.00	13.82	BA
Average of Peak Concentrations =					290			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5668181	0.05174	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\040318.b\040318032.D

Date : 03-APR-2018 22:25

Client ID: AT1-170616-01-SMB-0

Instrument: 40GCSJ.i

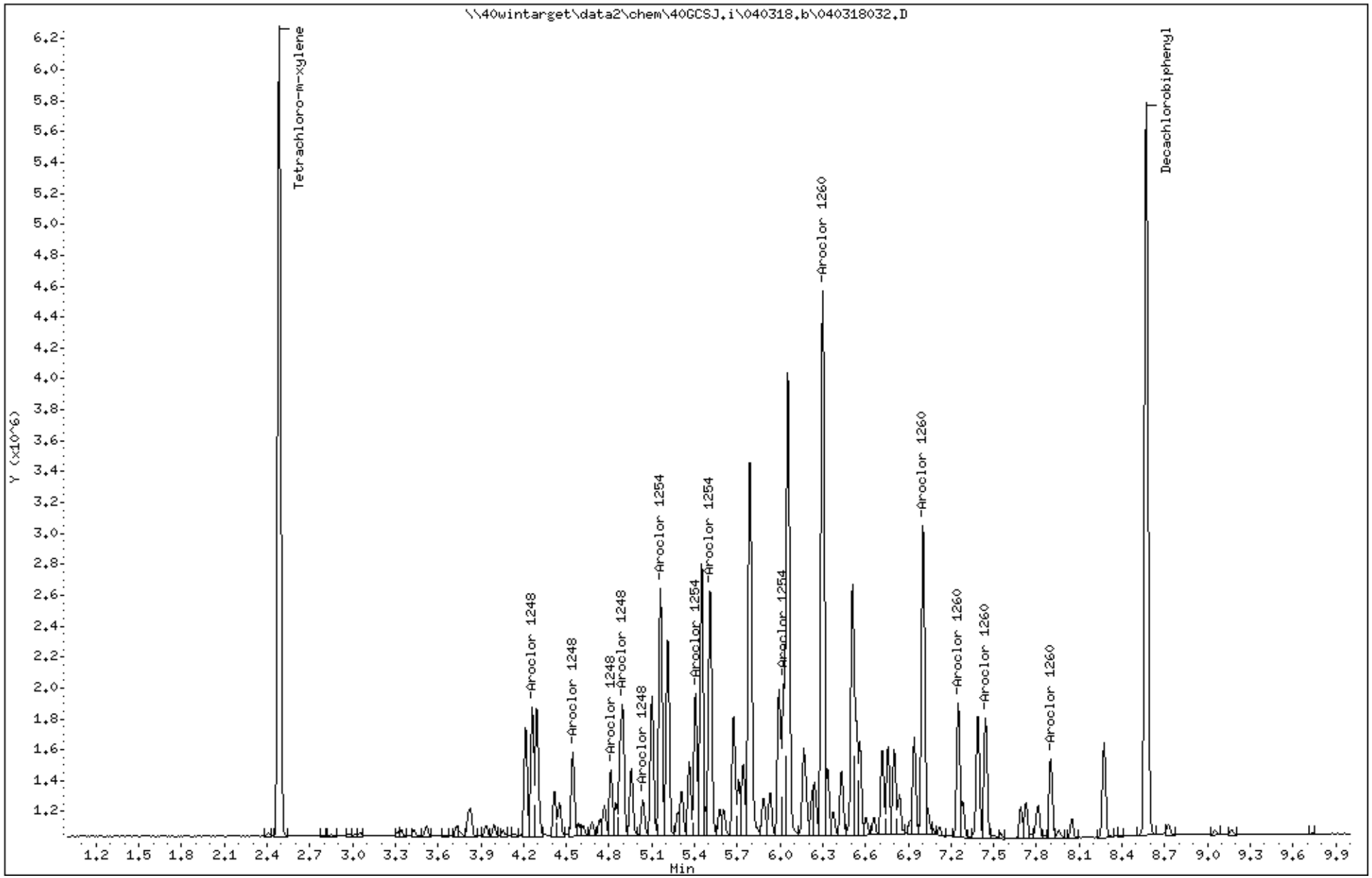
Sample Info: 1667512 x2,

Volume Injected (uL): 1.0

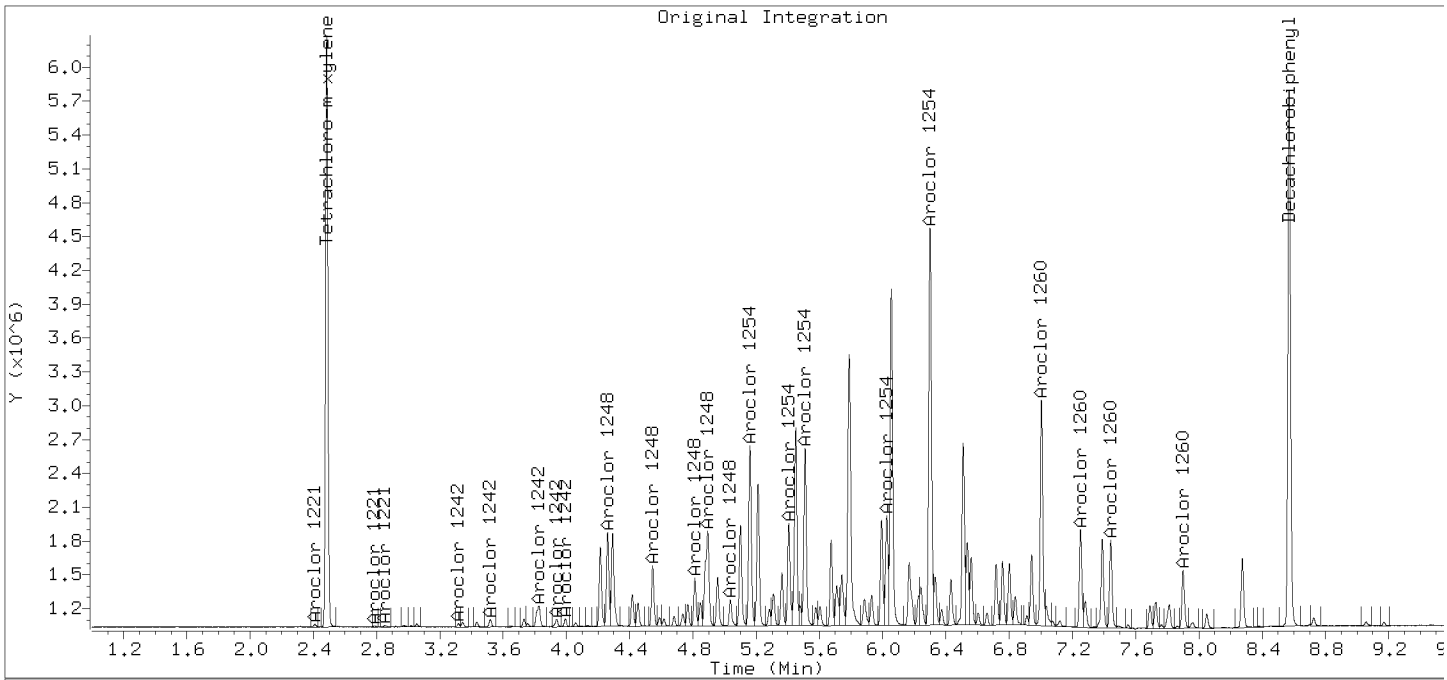
Operator: BLM

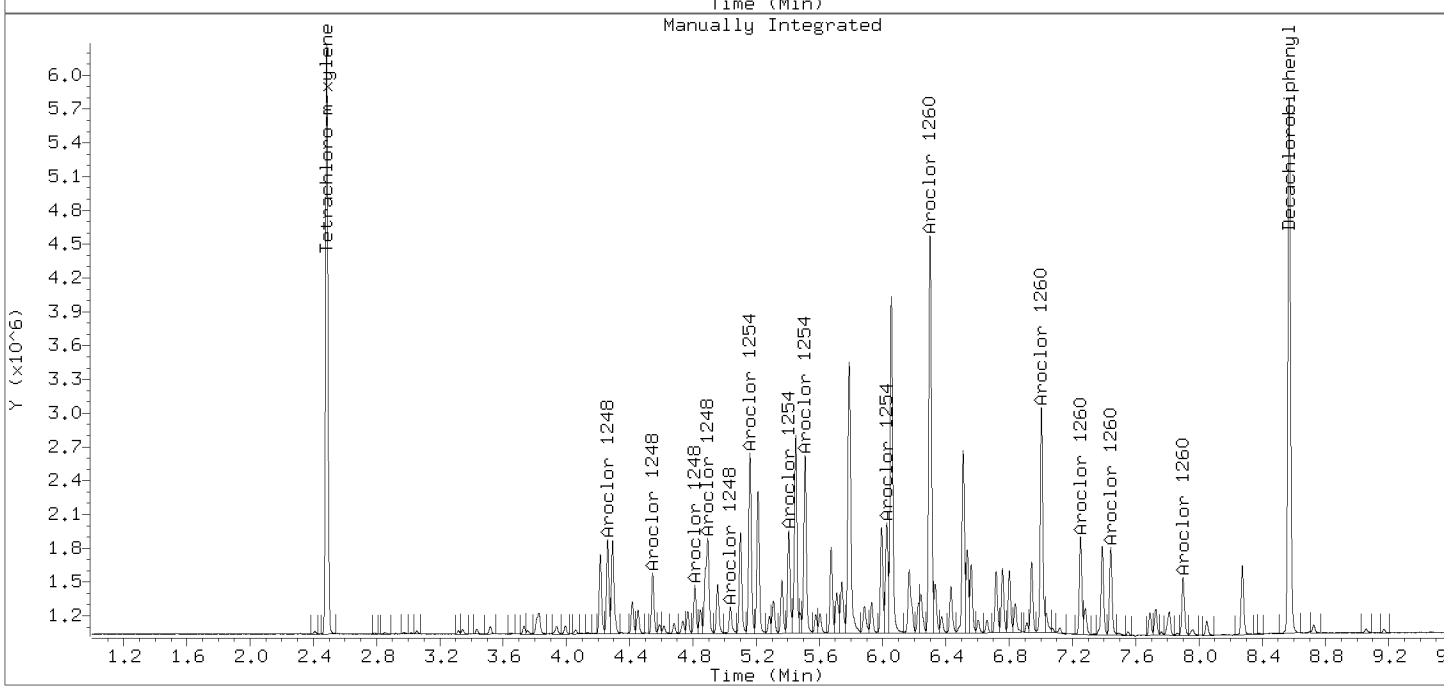
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040318.b/040318032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 03-APR-2018 22:25 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1667512





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	32112	0	
Aroclor 1016	32112	0	
Aroclor 1016	32112	0	
Aroclor 1016	32112	0	
Aroclor 1016	32112	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	22305	0	
Aroclor 1232	22305	0	
Aroclor 1232	22305	0	
Aroclor 1232	22305	0	

Aroclor 1232	22305	0	
Aroclor 1242	32112	0	
Aroclor 1242	32112	0	
Aroclor 1242	32112	0	
Aroclor 1242	32112	0	
Aroclor 1242	32112	0	
Aroclor 1248	859774	874140	BA
Aroclor 1248	859774	874140	BA
Aroclor 1248	859774	874140	BA
Aroclor 1248	859774	874140	BA
Aroclor 1248	859774	874140	BA
Aroclor 1254	1855534	1874526	BA
Aroclor 1254	1855534	1874526	BA
Aroclor 1254	1855534	1874526	BA
Aroclor 1254	1855534	1874526	BA
Aroclor 1254	1855534	1874526	BA
Aroclor 1260	4309910	4334945	BA
Aroclor 1260	4309910	4334945	BA
Aroclor 1260	4309910	4334945	BA
Aroclor 1260	4309910	4334945	BA
Aroclor 1260	4309910	4334945	BA
Tetrachloro-m-xylene	5436871	5436871	
Decachlorobiphenyl	5668181	5668181	

==========

Prep Log Report

Batch Information: OEXT 284830 PCB-B

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

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	04/02/2018 07:11:39:250
Spiked By	AMC	Spiked By Date/Time	04/02/2018 07:11:40:057	Witnessed By	ETB	Witnessed By Date/Time	04/02/2018 07:11:48:946
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	192753	Hexane	192551	Sodium Sulfate	190953	Florisil	186910
3620B Date/Initials	04/03/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	04/03/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/11/2018 12:06	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	**1667509**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1667510**	10	5	3		189973 (.25)	192096 (.125)
8082A TNYP	PS	**40157822001**	10.0058	5	3		189973 (.25)	
8082A TNYP	PS	**40157822002**	9.9661	5	3		189973 (.25)	
8082A TNYP	PS	**40157822003**	10.0155	5	3		189973 (.25)	
8082A TNYP	PS	**40157822004**	9.9687	5	3		189973 (.25)	
8082A TNYP	PS	**40157822005**	9.9787	5	3		189973 (.25)	
8082A TNYP	PS	**40157822006**	9.9785	5	3		189973 (.25)	
8082A TNYP	PS	**40157822007**	10.0096	5	3		189973 (.25)	
8082A TNYP	PS	**40157822008**	10.0052	5	3		189973 (.25)	
8082A TNYP	PS	**40157822009**	10.0074	5	3		189973 (.25)	
8082A TNYP	PS	**40157822010**	9.9831	5	3		189973 (.25)	
8082A TNYP	PS	**40157822011**	10.0178	5	3		189973 (.25)	
8082A TNYP	PS	**40157822012**	9.9685	5	3		189973 (.25)	
8082A TNYP	PS	**40157822013**	9.9915	5	3		189973 (.25)	
8082A TNYP	PS	**40157822014**	9.9671	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	**40157822015**	9.9745	5	3		189973 (.25)	
8082A TNYP	PS	**40157822016**	10.0093	5	3		189973 (.25)	
8082A TNYP	RQS	**40157822017**	9.9716	5	3		189973 (.25)	
8082A TNYP	MS	**1667511**	10.0292	5	3		189973 (.25)	192096 (.125)
8082A TNYP	DUP	**1667512**	10.0317	5	3		189973 (.25)	
8082A TNYP	PS	**40157822018**	10.0028	5	3		189973 (.25)	
8082A TNYP	PS	**40157822019**	10.0023	5	3		189973 (.25)	
8082A TNYP	PS	**40157822020**	10.0108	5	3		189973 (.25)	

Standard Notes:

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

```
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         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\040318\
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  40166701-001
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  40166756-002
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  40166771-001
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  40166771-002
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40166771-003
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  1667509MB
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  1667510LCS
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40157822-001 x10
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40157822-002 x10
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  40157822-003 x4
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40157822-004 x4
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40157822-005 x4
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40157822-006 x10
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40157822-007 x5
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  40157822-008 x10
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40157822-009 —
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40157822-010 x3
     Datafile           --------

   Last Modified: Tue Apr 03 12:15:09 2018                Page:  1
```

GE BIOTA

BLM 4/4/18

Continued on Page 38

Read and Understood By

Signed 4/4/18 Date Signed 4/4/18 Date

```
      Method                SCREEN2014
20)   Sample        20      40157822-011 x10
      Datafile              --------
      Method                SCREEN2014
21)   RearSamp      21      40157822-012 x10
      Datafile              --------
      Method                SCREEN2014
22)   Sample        22      40157822-013 x 3
      Datafile              --------
      Method                SCREEN2014
23)   RearSamp      23      40157822-014 x10
      Datafile              --------
      Method                SCREEN2014
24)   Sample        24      40157822-015 x2
      Datafile              --------
      Method                SCREEN2014
25)   RearSamp      25      40157822-016 x5
      Datafile              --------
      Method                SCREEN2014
26)   Sample        26      40157822-017P x2
      Datafile              --------
      Method                SCREEN2014
27)   RearSamp      27      1667511MS x2
      Datafile              --------
      Method                SCREEN2014
28)   Sample        28      1667512DUP x2
      Datafile              --------
      Method                SCREEN2014
29)   RearSamp      29      40157822-018 —
      Datafile              --------
      Method                SCREEN2014
30)   Sample        30      40157822-019 x3
      Datafile              --------
      Method                SCREEN2014
31)   RearSamp      31      40157822-020 x10
      Datafile              --------
      Method                SCREEN2014
32)   Sample        32      HEXANE
      Datafile              --------
      Method                SCREEN2014
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Last Modified: Tue Apr 03 12:15:09 2018 Page: 2

BLM 4/4/18

Continued on Page —

Read and Understood By

Signed 4/4/18 Date Signed 4/4/18 Date

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     Operator: BLM
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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
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 2) RearSamp        1  prime
     Datafile          030618001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          030618002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          030618003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          030618004
     Method            GEBIOTA2017
 6) RearSamp        5  1232-CAL3S,185539:1,17499,NSA
     Datafile          030618005
     Method            GEBIOTA2017
 7) Sample          4  HEXANE
     Datafile          030618006
     Method            GEBIOTA2017
 8) RearSamp        6  1221-CAL1F,188138:1,17499,NSA
     Datafile          030618007
     Method            GEBIOTA2017
 9) Sample          5  1232-CAL3S,185539:1,17498,NSA
     Datafile          030618008
     Method            GEBIOTA2017
10) RearSamp        7  1221-CAL2F,188139:1,17499,NSA
     Datafile          030618009
     Method            GEBIOTA2017
11) Sample          6  1221-CAL1F,188138:1,17498,NSA
     Datafile          030618010
     Method            GEBIOTA2017
12) RearSamp        8  1221-CAL3F,185538:1,17499,NSA
     Datafile          030618011
     Method            GEBIOTA2017
13) Sample          7  1221-CAL2F,188139:1,17498,NSA
     Datafile          030618012
     Method            GEBIOTA2017
14) RearSamp        9  1221-CAL4F,188140:1,17499,NSA
     Datafile          030618013
     Method            GEBIOTA2017
15) Sample          8  1221-CAL3F,185538:1,17498,NSA
     Datafile          030618014
     Method            GEBIOTA2017
16) RearSamp       10  1221-CAL5F,188141:1,17499,NSA
     Datafile          030618015
     Method            GEBIOTA2017
17) Sample          9  1221-CAL4F,188140:1,17498,NSA
     Datafile          030618016
     Method            GEBIOTA2017
18) RearSamp       11  HEXANE
     Datafile          030618017
     Method            GEBIOTA2017
19) Sample         10  1221-CAL5F,188141:1,17498,NSA
     Datafile          030618018
     Method            GEBIOTA2017
20) RearSamp       12  1242-CAL1B,188132:1,17499,NSA

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```

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Read and Understood By

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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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```

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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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Signed: Bryan Meyer
Date: 3/7/18
Signed:
Date: 3/7/18

```
      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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Read and Understood By

Signed: Bryan Meyer Date: 3/7/18

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

```
     Sequence Name: C:\msdchem\1\sequence\040318.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\040318\
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          040318001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          040318002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          040318003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 ok
     Datafile          040318004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 ok
     Datafile          040318005
     Method            GEBIOTA2017
 6) Sample          6  40157825005 x2,,17602,BIOTA
     Datafile          040318006
     Method            GEBIOTA2017
 7) Sample          7  40157825010 x2,,17602,BIOTA
     Datafile          040318007
     Method            GEBIOTA2017
 8) Sample          8  1667509,,17614,BIOTA
     Datafile          040318008
     Method            GEBIOTA2017
 9) Sample          9  1667510,,17614,BIOTA
     Datafile          040318009
     Method            GEBIOTA2017
10) Sample         10  40157822001 x10,,17614,BIOTA
     Datafile          040318010
     Method            GEBIOTA2017
11) Sample         11  40157822002 x10,,17614,BIOTA
     Datafile          040318011
     Method            GEBIOTA2017
12) Sample         12  40157822003 x4,,17614,BIOTA
     Datafile          040318012
     Method            GEBIOTA2017
13) Sample         13  40157822004 x4,,17614,BIOTA
     Datafile          040318013
     Method            GEBIOTA2017
14) Sample         14  40157822005 x4,,17614,BIOTA
     Datafile          040318014
     Method            GEBIOTA2017
15) Sample         15  40157822006 x10,,17614,BIOTA
     Datafile          040318015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 ok
     Datafile          040318016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 ok
     Datafile          040318017
     Method            GEBIOTA2017
18) Sample         18  40157822007 x5,,17614,BIOTA
     Datafile          040318018
     Method            GEBIOTA2017
19) Sample         19  40157822008 x10,,17614,BIOTA
     Datafile          040318019

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```

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```
      Method                GEBIOTA2017
20) Sample          20  40157822009,,17614,BIOTA
      Datafile              040318020
      Method                GEBIOTA2017
21) Sample          21  40157822010 x3,,17614,BIOTA
      Datafile              040318021
      Method                GEBIOTA2017
22) Sample          22  40157822011 x10,,17614,BIOTA
      Datafile              040318022
      Method                GEBIOTA2017
23) Sample          23  40157822012 x10,,17614,BIOTA
      Datafile              040318023
      Method                GEBIOTA2017
24) Sample          24  40157822013 x3,,17614,BIOTA
      Datafile              040318024
      Method                GEBIOTA2017
25) Sample          25  40157822014 x10,,17614,BIOTA
      Datafile              040318025
      Method                GEBIOTA2017
26) Sample          26  40157822015 x2,,17614,BIOTA
      Datafile              040318026
      Method                GEBIOTA2017
27) Sample          27  40157822016 x5,,17614,BIOTA
      Datafile              040318027
      Method                GEBIOTA2017
28) Sample          28  1232-CCV,185539:1,17498,AR123 ok
      Datafile              040318028
      Method                GEBIOTA2017
29) Sample          29  1232-CCV,185539:1,17498,AR123 ok
      Datafile              040318029
      Method                GEBIOTA2017
30) Sample          30  40157822017 x2,,17614,BIOTA
      Datafile              040318030
      Method                GEBIOTA2017
31) Sample          31  1667511 x2,,17614,BIOTA
      Datafile              040318031
      Method                GEBIOTA2017
32) Sample          32  1667512 x2,,17614,BIOTA
      Datafile              040318032
      Method                GEBIOTA2017
33) Sample          33  40157822018,,17614,BIOTA
      Datafile              040318033
      Method                GEBIOTA2017
34) Sample          34  40157822019 x3,,17614,BIOTA
      Datafile              040318034
      Method                GEBIOTA2017
35) Sample          35  40157822020 x10,,17614,BIOTA
      Datafile              040318035
      Method                GEBIOTA2017
36) Sample          36  1242-CCV,185544:1,17498,AR124 ok
      Datafile              040318036
      Method                GEBIOTA2017
37) Sample          37  1242-CCV,185544:1,17498,AR124 ok
      Datafile              040318037
      Method                GEBIOTA2017
```

GCSV Batch #17614 HBN: 284984 Screened:
40GCSI 4/3/18

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Read and Understood By

Signed 4/4/18 Date Signed 4/4/18 Date

Standard Log Report

Standards Log Information for Standard #192753

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/30/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #192753

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

Composed of Information for Standard #192753

Composed of Standard Seq	Volume	Units
192551	2000	mL
189479	2000	mL

Standard Log Report

Standards Log Information for Standard #192551

STOCK STANDARD

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

Notes:

Hexane SVOA TANK Changed AMC 3/28/18

Compound Name and Concentration for Standard #192551

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #192096

WORKING STANDARD

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

Notes:

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

Compound Name and Concentration for Standard #192096

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

Composed of Information for Standard #192096

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

Standard Log Report

Standards Log Information for Standard #190953

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	03/08/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #190953

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

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

Standard Log Report

Standards Log Information for Standard #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 #189479

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	02/19/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #189479

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

Standard Log Report

Standards Log Information for Standard #188142

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-ICV

Notes:

1221 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #188142

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #188142

Composed of Standard Seq	Volume	Units
188137	500	uL
188129	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #188137

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #188137

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL

Composed of Information for Standard #188137

Composed of Standard Seq	Volume	Units
184640	9	mL
179816	1000	uL

Standard Log Report

Standards Log Information for Standard #188136

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL1

Notes:

NY 1660 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188136

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.1 ug/mL	PCB-1260 (Aroclor 1260)	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188136

Composed of Standard Seq	Volume	Units
188129	100	uL
185533	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

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

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

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

Composed of Information for Standard #188135

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

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

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

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

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

Composed of Information for Standard #188134

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

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

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

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

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

Composed of Information for Standard #188132

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

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #188129

Composed of Standard Seq	Volume	Units
185958	1	mL
184640	19	mL

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405706
Create Date:	01/12/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	01/11/2020	**Manufacturer Lot ID:**	174228	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

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

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

Created By:	BLM	**Volume of Standard:**	1 mL	**Lot ID:**	405693
Create Date:	01/02/2018	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	11/30/2023	**Manufacturer Lot ID:**	A0130424	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-ICV

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185565

Composed of Standard Seq	Volume	Units
185537	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-ICV

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185564

Composed of Standard Seq	Volume	Units
185536	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-ICV

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185563

Composed of Standard Seq	Volume	Units
185535	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-ICV

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185562

Composed of Standard Seq	Volume	Units
185534	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL5

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	1 ug/mL	PCB-1260 (Aroclor 1260)	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185561

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL4

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.8 ug/mL	PCB-1260 (Aroclor 1260)	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185560

Composed of Standard Seq	Volume	Units
185533	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

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

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL3

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185554

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL2

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185553

Composed of Standard Seq	Volume	Units
185530	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL5

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185551

Composed of Standard Seq	Volume	Units
185529	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL4

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185550

Composed of Standard Seq	Volume	Units
185529	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL3

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185549

Composed of Standard Seq	Volume	Units
185529	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL2

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185548

Composed of Standard Seq	Volume	Units
185529	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL5

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	1 ug/mL	PCB-1242 (Aroclor 1242)	1 ug/mL
PCB-1242 (Aroclor 1242)-6	1 ug/mL	PCB-1242 (Aroclor 1242)-7	1 ug/mL
PCB-1242 (Aroclor 1242)-8	1 ug/mL	PCB-1242 (Aroclor 1242)-9	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185546

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL4

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

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

Composed of Information for Standard #185545

Composed of Standard Seq	Volume	Units
185528	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL3

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	PCB-1242 (Aroclor 1242)	.5 ug/mL
PCB-1242 (Aroclor 1242)-6	.5 ug/mL	PCB-1242 (Aroclor 1242)-7	.5 ug/mL
PCB-1242 (Aroclor 1242)-8	.5 ug/mL	PCB-1242 (Aroclor 1242)-9	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185544

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL2

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.2 ug/mL	PCB-1242 (Aroclor 1242)	.2 ug/mL
PCB-1242 (Aroclor 1242)-6	.2 ug/mL	PCB-1242 (Aroclor 1242)-7	.2 ug/mL
PCB-1242 (Aroclor 1242)-8	.2 ug/mL	PCB-1242 (Aroclor 1242)-9	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185543

Composed of Standard Seq	Volume	Units
185528	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-CAL3

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1232 (Aroclor 1232)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185539

Composed of Standard Seq	Volume	Units
185527	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL3

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	PCB-1221 (Aroclor 1221)-1	.5 ug/mL
PCB-1221 (Aroclor 1221)-2	.5 ug/mL	PCB-1221 (Aroclor 1221)-3	.5 ug/mL
PCB-1221 (Aroclor 1221)-4	.5 ug/mL	PCB-1232 (Aroclor 1232)-5	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185538

Composed of Standard Seq	Volume	Units
185526	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185537

Composed of Standard Seq	Volume	Units
184640	9	mL
175600	1	mL

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185530

Composed of Standard Seq	Volume	Units
184640	9	mL
173182	1000	uL

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185529

Composed of Standard Seq	Volume	Units
184640	9	mL
173180	1000	uL

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL
PCB-1242 (Aroclor 1242)	100 ug/mL	PCB-1242 (Aroclor 1242)-6	100 ug/mL
PCB-1242 (Aroclor 1242)-7	100 ug/mL	PCB-1242 (Aroclor 1242)-8	100 ug/mL
PCB-1242 (Aroclor 1242)-9	100 ug/mL		

Composed of Information for Standard #185528

Composed of Standard Seq	Volume	Units
184640	9	mL
173178	1000	uL

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

Standard Log Report

Standards Log Information for Standard #185527

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185527

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1232 (Aroclor 1232)	100 ug/mL

Composed of Information for Standard #185527

Composed of Standard Seq	Volume	Units
184640	9	mL
173176	1000	uL

Standard Log Report

Standards Log Information for Standard #185526

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185526

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL
PCB-1221 (Aroclor 1221)-1	100 ug/mL	PCB-1221 (Aroclor 1221)-2	100 ug/mL
PCB-1221 (Aroclor 1221)-3	100 ug/mL	PCB-1221 (Aroclor 1221)-4	100 ug/mL
PCB-1232 (Aroclor 1232)-5	100 ug/mL		

Composed of Information for Standard #185526

Composed of Standard Seq	Volume	Units
184640	9	mL
173174	1000	uL

Standard Log Report

Standards Log Information for Standard #185524

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #185524

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #185524

Composed of Standard Seq	Volume	Units
184640	19	mL
178398	1	mL

Standard Log Report

Standards Log Information for Standard #184640

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405661
Create Date:	12/12/2017	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 12/12/17

Compound Name and Concentration for Standard #184640

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #179816

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	1 mL	**Lot ID:**	405540
Create Date:	10/09/2017	**Manufacturer:**	o2si	**Part ID:**	030273-11
Expire Date:	09/01/2021	**Manufacturer Lot ID:**	316120	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #179816

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #179368

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179368

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #179366

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179366

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #178398

INDIVIDUAL STANDARD

Created By:	DMH	**Volume of Standard:**	1 mL	**Lot ID:**	405520
Create Date:	09/18/2017	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0125833	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405431
Create Date:	08/09/2017	**Manufacturer:**	O2SI	**Part ID:**	130011-03
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	311587	**Standard ID:**	1660-STK

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405386
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030277-06
Expire Date:	03/21/2020	**Manufacturer Lot ID:**	302980	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405385
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030276-15
Expire Date:	01/14/2020	**Manufacturer Lot ID:**	296389	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405384
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030275-03
Expire Date:	03/20/2027	**Manufacturer Lot ID:**	302979	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405375
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32039
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124547	**Standard ID:**	1660-STK

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405372
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32011
Expire Date:	05/31/2023	**Manufacturer Lot ID:**	A0125350	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405371
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32010
Expire Date:	12/31/2022	**Manufacturer Lot ID:**	A0121842	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405370
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32009
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124535	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL	PCB-1242 (Aroclor 1242)	1000 ug/mL
PCB-1242 (Aroclor 1242)-6	1000 ug/mL	PCB-1242 (Aroclor 1242)-7	1000 ug/mL
PCB-1242 (Aroclor 1242)-8	1000 ug/mL	PCB-1242 (Aroclor 1242)-9	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405369
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32008
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124534	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

Compound Name	Concentration	Compound Name	Concentration
PCB-1232 (Aroclor 1232)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405368
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32007
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0126078	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL	PCB-1221 (Aroclor 1221)-1	1000 ug/mL
PCB-1221 (Aroclor 1221)-2	1000 ug/mL	PCB-1221 (Aroclor 1221)-3	1000 ug/mL
PCB-1221 (Aroclor 1221)-4	1000 ug/mL	PCB-1232 (Aroclor 1232)-5	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	10 mL	**Lot ID:**	405341
Create Date:	06/23/2017	**Manufacturer:**	O2SI	**Part ID:**	130023-15
Expire Date:	11/06/2018	**Manufacturer Lot ID:**	311236	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 2000 ug/mL - opened 11/6/17 MRN

Compound Name and Concentration for Standard #172034

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	2000 ug/mL	Tetrachloro-m-xylene (S)	2000 ug/mL

Standard Log Report

Standards Log Information for Standard #81343

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81343

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #81342

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81342

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #81341

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81341

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #81340

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81340

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

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ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: 4/22/14 cre

Certificate of Analysis

Rev 0 **Page**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	226760	Ambient or Less	Hexane	15-Apr-2024	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.3P	1003 +/- 10.66	mg/L

403271
REC.04/22/14 BY CA
Exp. __/__/__ By -
Open __/__/__ By

Certified By: Amanda Ross

Amanda Ross

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

405341
REC. 06/23/17 BY MRN
Exp. --/--/-- By --

2030 Savage Road
Charleston, South Carolina 29407
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Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130023-15	311236	≤ 6 °C	Tol.:Hex. 1:1	8-Jun-2019	Pesticide Surrogate Solution, 2,000 mg/L, 10 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
decachlorobiphenyl (BZ# 209)	2051-24-3	99.1	301.115.5P	2022 +/- 4.56	mg/L
2,4,5,6-tetrachloro-m-xylene	877-09-8	98.6	300.115.3P	1996 +/- 14.54	mg/L

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 2781200)		+/- 31.9602	µg/mL	Unstressed
	Purity ----%			+/- 41.7506	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

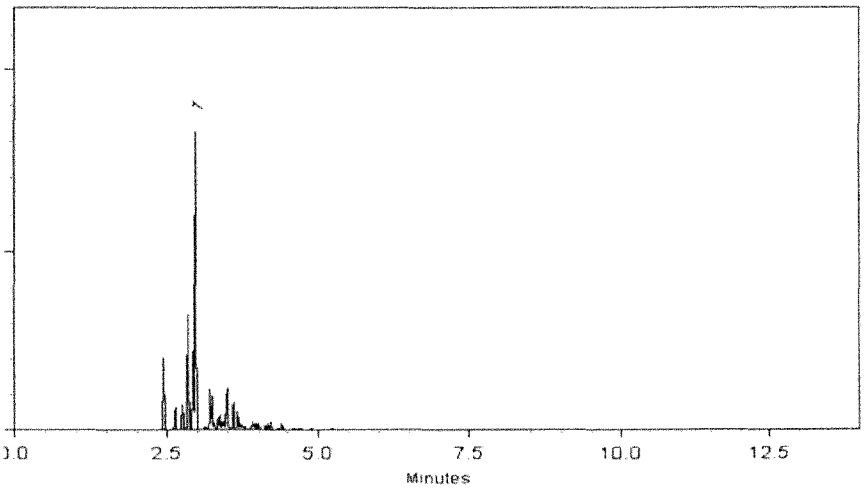
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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Bellefonte, PA 16823-8812
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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.7072	µg/mL	Unstressed
	Purity ----%		+/- 41.4130	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405369
REC.07/06/17 BY BDS
Exp. __/__/__ By --
Open __/__/__ By --

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

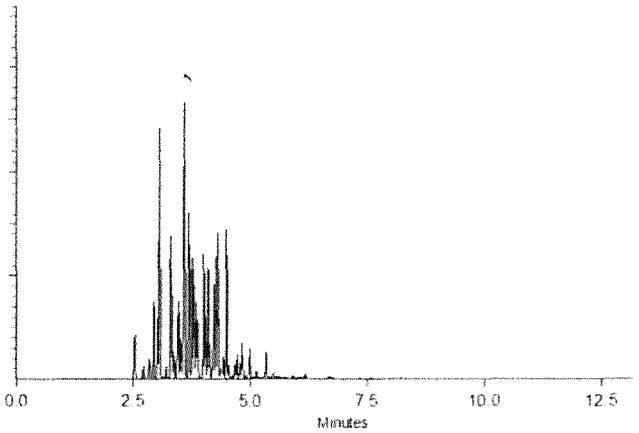
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech.ARM QC

Date Passed: 31-Jan-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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)

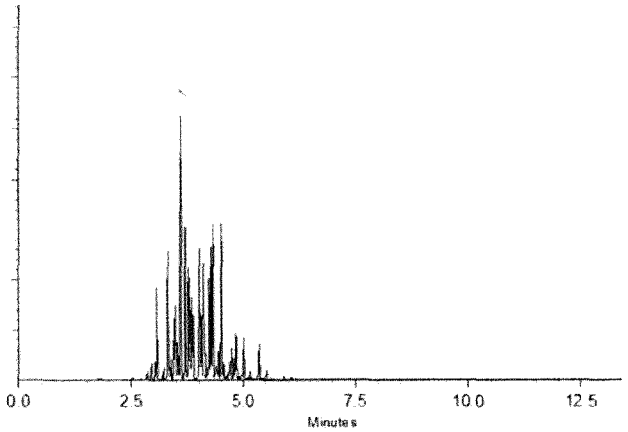
Carrier Gas:
helium-constant pressure 20 psi.

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)

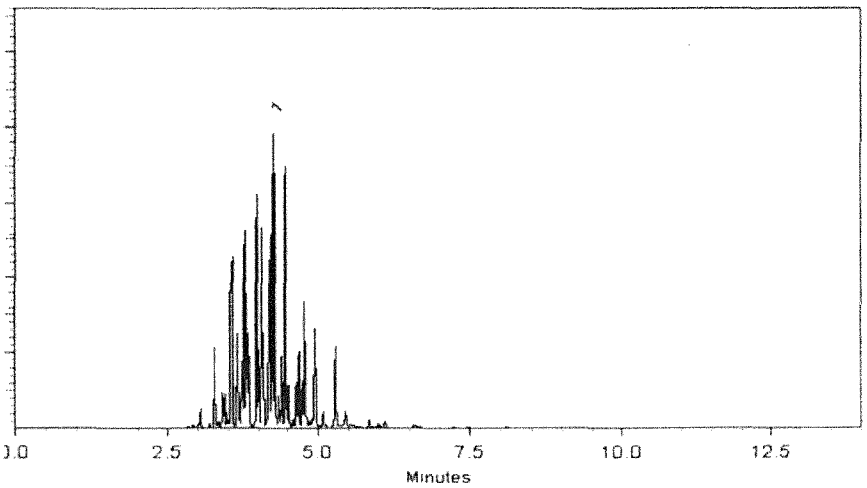
Carrier Gas:
helium-constant pressure 20 psi.

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

Manufactured under Restek's ISO 9001:2008
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Certificate #FM 80397

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254		1,005.6 µg/mL	+/- 5.9014	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8715	µg/mL	Unstressed
	Purity ----%			+/- 41.6347	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

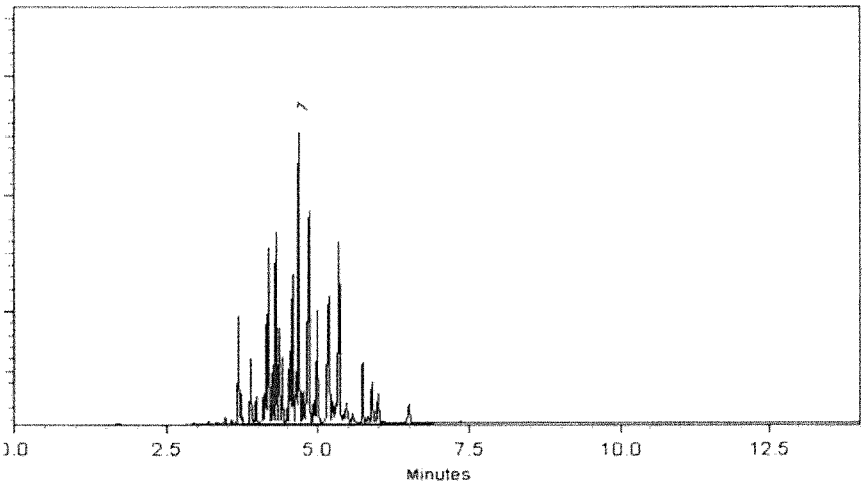
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,002.0 µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot W-125-04)		+/- 31.7498	µg/mL	Unstressed
	Purity ----%			+/- 41.4799	µg/mL	Stressed
2	Aroclor 1260		1,002.2 µg/mL	+/- 5.8403	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot W-129-06)		+/- 31.7561	µg/mL	Unstressed
	Purity ----%			+/- 41.4881	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

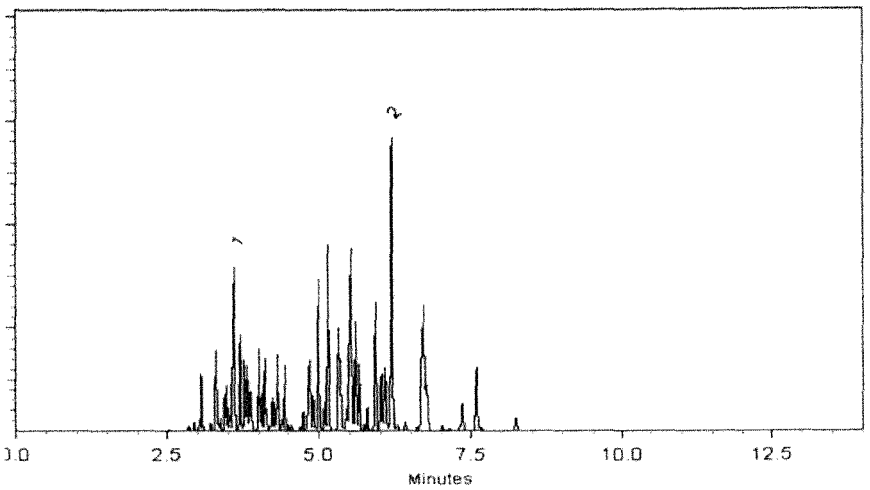
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 30-Jan-2017 **Balance:** B442140311

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

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Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	302979	Ambient or Less	Hexane	20-Mar-2027	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1010 +/- 7.38	mg/L

405384
REC.07/13/17 BY BDS
Exp. __/__/__ By --
Open / / By

Certified By: _____
Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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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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Date Received: _____

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130011-03	311587	≤ Ambient	Hexane	28-Jul-2020	Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1016	12674-11-2	100	272.5.1.6P	1006 +/- 3.01	mg/L
Aroclor 1260	11096-82-5	100	278.3.10P	1016 +/- 3.02	mg/L

405431
REC. 08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

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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)

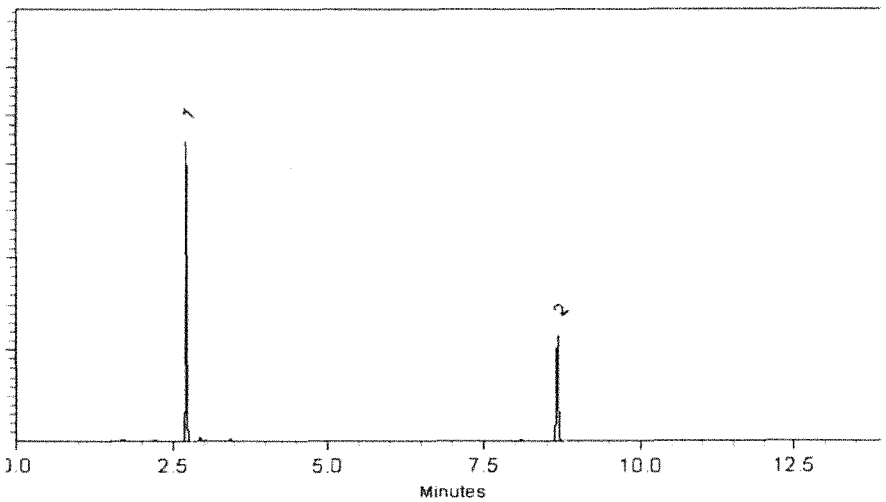
Carrier Gas:
helium-constant pressure 20 psi.

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
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405532
REC. 09/29/17 BY MRN
Exp. --/--/-- By --

Honeywell

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Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.31	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.97	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0481	AU
UV Absorbance @ 350 nm		0.010	0.0014	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
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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

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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

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0130424

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

405693
REC.01/02/18 BY BLM
Exp: --/--/-- By --
Open / / By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.2 µg/mL	+/- 1.1725	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3751	µg/mL	Unstressed
	Purity 98%			+/- 8.3288	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3848	µg/mL	Unstressed
	Purity 99%			+/- 8.3415	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

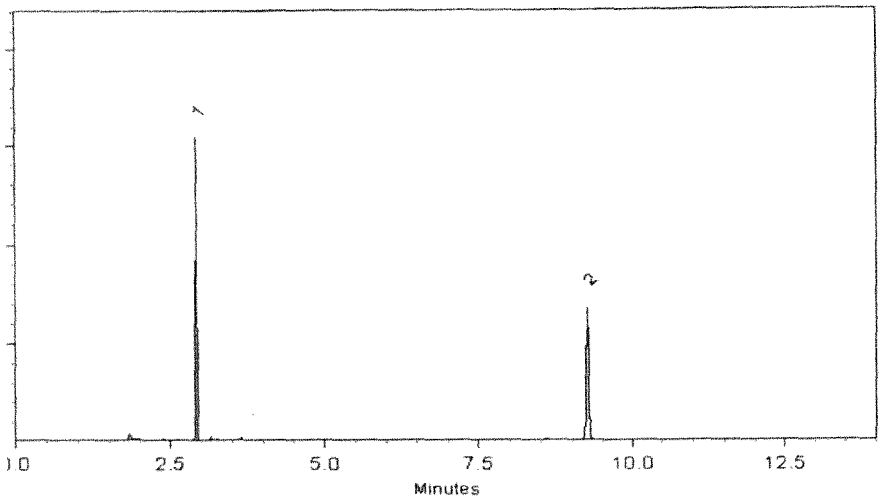
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 31-Aug-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Sep-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

o2si smart solutions®

Quality System Audited & Registered by NSF-ISR to ISO 9001:2008

2030 Savage Road
Charleston, South Carolina 29407
Phone: 866.272.0932
Fax: 866.509.5146
www.o2si.com

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
020986-02 -02-SS	297165	≤ -10 °C	P/T Methanol	16-Jan-2020	Dichlorofluoromethane (Freon 21) Gas Solution, Second Source, 2000 mg/L, 2 x 0.6 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
dichlorofluoromethane (Freon 21)	75-43-4	99	986.158.2.2.1S	2008 +/- 20.85 mg/L

405766
REC. 02/26/18 BY SMT
Exp. --/--/-- By --
Open / / By

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system that is accredited to ISO 17034 and ISO/IEC 17025.

Second Source standards are prepared according to NELAC

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

J.T.Baker | avantor

405817
REC.03/28/18 BY AMC
Exp. --/--/-- By --
Open --/--/-- By --

Material No.: 9262-8P
Batch No.: 0000191733
Manufactured Date: 2017/12/21
Expiration Date: 2019/03/22

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	100.0
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.3
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

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

SAMPLE NO.

AT1-170616-01-SMB-20

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.90		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-19

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.7		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-18

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.5		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-17

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.65		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-16

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.72		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-15

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.7		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-14

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.64		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-13

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.57		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-12

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.37		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-11

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.57		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.34		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.1		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.86		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.8		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.45		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.73		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822017 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.46		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822018 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.65		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822019 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.39		%	1	04/03/2018 06:29

SAMPLE NO.

AT1-170616-01-SMB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157822020 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	04/03/2018 06:29

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 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	1667980	C
Lipid									<0.030	U

SAMPLE NO.

1667983DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157822 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.46	0.39	16

Prep Log Report

Batch Information: OEXT 284968 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:38				

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	**1667980**	Y	-0.1100	04/03/2018 06:29:33		10	5	1	0.9338	0.9316	M	1667509
LIPID	BLANK	**1667981**	Y	-0.02500	04/03/2018 06:29:33		10	5	1	0.93	0.9295	M	1667510
LIPID	PS	**40157822001**	Y	0.8995	04/03/2018 06:29:33		10.0058	5	1	0.9331	0.9511	M	
LIPID	PS	**40157822002**	Y	2.704	04/03/2018 06:29:33		9.9661	5	1	0.9304	0.9843	M	
LIPID	PS	**40157822003**	Y	1.493	04/03/2018 06:29:33		10.0155	5	1	0.9348	0.9647	M	
LIPID	PS	**40157822004**	Y	0.6470	04/03/2018 06:29:33		9.9687	5	1	0.935	0.9479	M	
LIPID	PS	**40157822005**	Y	0.7215	04/03/2018 06:29:33		9.9787	5	1	0.9294	0.9438	M	
LIPID	PS	**40157822006**	Y	1.699	04/03/2018 06:29:33		9.9785	5	1	0.933	0.9669	M	
LIPID	PS	**40157822007**	Y	0.6444	04/03/2018 06:29:33		10.0096	5	1	0.9324	0.9453	M	
LIPID	PS	**40157822008**	Y	0.5697	04/03/2018 06:29:33		10.0052	5	1	0.9316	0.943	M	
LIPID	PS	**40157822009**	Y	0.3747	04/03/2018 06:29:33		10.0074	5	1	0.9282	0.9357	M	
LIPID	PS	**40157822010**	Y	0.5710	04/03/2018 06:29:33		9.9831	5	1	0.9351	0.9465	M	
LIPID	PS	**40157822011**	Y	0.3394	04/03/2018 06:29:33		10.0178	5	1	0.9327	0.9395	M	
LIPID	PS	**40157822012**	Y	2.062	04/03/2018 06:29:33		9.9685	5	1	0.9316	0.9727	M	
LIPID	PS	**40157822013**	Y	0.8607	04/03/2018 06:29:33		9.9915	5	1	0.929	0.9462	M	
LIPID	PS	**40157822014**	Y	2.789	04/03/2018 06:29:33		9.9671	5	1	0.9321	0.9877	M	
LIPID	PS	**40157822015**	Y	0.4461	04/03/2018 06:29:33		9.9745	5	1	0.9307	0.9396	M	
LIPID	PS	**40157822016**	Y	0.7343	04/03/2018 06:29:33		10.0093	5	1	0.9299	0.9446	M	
LIPID	RQS	**40157822017**	Y	0.4613	04/03/2018 06:29:33		9.9716	5	1	0.9291	0.9383	M	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	DUP	**1667983**	Y	0.3938	04/03/2018 06:29:33		10.0317	5	1	0.9322	0.9401	M	1667512
LIPID	PS	**40157822018**	Y	0.6498	04/03/2018 06:29:33		10.0028	5	1	0.93	0.943	M	
LIPID	PS	**40157822019**	Y	0.3899	04/03/2018 06:29:33		10.0023	5	1	0.9298	0.9376	M	
LIPID	PS	**40157822020**	Y	1.179	04/03/2018 06:29:33		10.0108	5	1	0.931	0.9546	M	
LIPID	MS	**1682597**	Y	0.3041	04/03/2018 06:29:33		10.0292	5	1	.9344	0.9405	M	

40157822

Client Name: GE
Project #: 40157822
Sample Type: Fish
Date/Time Removed to Thaw: 03-29-18
Date/Time Prepped: 03-30-18
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
20	A	F	Y	835.8	Y	M	180.8	Left / Both	Y	9AG	1	Y	178.3	C	
19	A	F	Y	514.8	Y	M	101.7	Left / Both	Y	9AG	1	Y	99.1	C	
18	A	F	Y	588.4	Y	F	118.8	Left / Both	Y	9AG	1	Y	117.7	C	
17	A	F	Y	405.1	Y	M	93.2	Left / Both	Y	9AG	1	Y	89.6	C	
16	A	F	Y	879.5	Y	M	194.2	Left / Both	Y	9AG	1	Y	192.4	C	
15	A	F	Y	404.2	Y	F	89.4	Left / Both	Y	9AG	1	Y	87.2	C	
14	A	F	Y	994.0	Y	F	213.4	Left / Both	Y	9AG	2	Y	212.2	C	
13	A	F	Y	339.9	Y	F	77.6	Left / Both	Y	9AG	1	Y	73.9	C	
12	A	F	Y	1286.5	Y	F	252.9	Left / Both	Y	9AG	2	Y	249.9	C	
11	A	F	Y	968.8	Y	M	192.3	Left / Both	Y	9AG	1	Y	189.1	C	
10	A	F	Y	412.9	Y	F	86.4	Left / Both	Y	9AG	1	Y	85.1	C	
9	A	F	Y	323.0	Y	M	70.7	Left / Both	Y	9AG	1	Y	69.5	C	
8	A	F	Y	941.2	Y	M	186.6	Left / Both	Y	9AG	1	Y	183.3	C	
7	A	F	Y	377.1	Y	M	79.5	Left / Both	Y	9AG	1	Y	76.8	C	
6	A	F	Y	1077.2	Y	F	223.1	Left / Both	Y	9AG	2	Y	220.4	C	
5	A	F	Y	1167.3	Y	F	222.4	Left / Both	Y	9AG	2	Y	218.2	C	
4	A	F	Y	806.4	Y	F	149.9	Left / Both	Y	9AG	1	Y	149.3	C	
3	A	F	Y	727.6	Y	F	140.3	Left / Both	Y	9AG	1	Y	138.8	C	
2	A	F	Y	1107.1	Y	F	244.3	Left / Both	Y	9AG	2	Y	241.6	C	
1	A	F	Y	1297.4	Y	M	264.7	Left / Both	Y	9AG	2	Y	262.1	C	

(1) M = Male, F = Female, U = Undetermined
(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.

CWN 03-30-18

(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	F-7-345-05AB
32AG	32 oz Amber Glass	

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

4/20/18
Date

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