Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40158010

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

May 07, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 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.: 40158010

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.: 40158010

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40158010001	**ND3-170829-01-PKSD-03**	Tissue	08/29/17 12:10	10/05/17 09:40
40158010002	**FD1-170829-01-PKSD-20**	Tissue	08/29/17 09:14	10/05/17 09:40
40158010003	**FD1-170829-01-PKSD-19**	Tissue	08/29/17 09:12	10/05/17 09:40
40158010004	**FD1-170829-01-PKSD-18**	Tissue	08/29/17 09:10	10/05/17 09:40
40158010005	**FD1-170829-01-PKSD-17**	Tissue	08/29/17 09:09	10/05/17 09:40
40158010006	**FD1-170829-01-PKSD-16**	Tissue	08/29/17 09:07	10/05/17 09:40
40158010007	**FD1-170829-01-PKSD-15**	Tissue	08/29/17 09:06	10/05/17 09:40
40158010008	**FD1-170829-01-PKSD-14**	Tissue	08/29/17 09:04	10/05/17 09:40
40158010009	**FD1-170829-01-PKSD-13**	Tissue	08/29/17 09:03	10/05/17 09:40
40158010010	**FD1-170829-01-PKSD-12**	Tissue	08/29/17 09:01	10/05/17 09:40
40158010011	**FD1-170829-01-PKSD-10**	Tissue	08/29/17 08:57	10/05/17 09:40
40158010012	**FD1-170829-01-PKSD-09**	Tissue	08/29/17 08:55	10/05/17 09:40
40158010013	**FD1-170829-01-PKSD-08**	Tissue	08/29/17 08:53	10/05/17 09:40
40158010014	**FD1-170829-01-PKSD-07**	Tissue	08/29/17 08:52	10/05/17 09:40
40158010015	**FD1-170829-01-PKSD-06**	Tissue	08/29/17 08:50	10/05/17 09:40
40158010016	**FD1-170829-01-PKSD-05**	Tissue	08/29/17 08:49	10/05/17 09:40
40158010017	**FD1-170829-01-PKSD-04**	Tissue	08/29/17 08:48	10/05/17 09:40
40158010018	**FD1-170829-01-PKSD-03**	Tissue	08/29/17 08:46	10/05/17 09:40
40158010019	**FD1-170829-01-PKSD-02**	Tissue	08/29/17 08:45	10/05/17 09:40
40158010020	**FD1-170829-01-PKSD-01**	Tissue	08/29/17 08:39	10/05/17 09:40

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40158010001	ND3-170829-01-PKSD-03	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010002	FD1-170829-01-PKSD-20	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010003	FD1-170829-01-PKSD-19	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010004	FD1-170829-01-PKSD-18	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010005	FD1-170829-01-PKSD-17	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010006	FD1-170829-01-PKSD-16	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010007	FD1-170829-01-PKSD-15	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010008	FD1-170829-01-PKSD-14	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010009	FD1-170829-01-PKSD-13	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010010	FD1-170829-01-PKSD-12	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010011	FD1-170829-01-PKSD-10	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010012	FD1-170829-01-PKSD-09	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010013	FD1-170829-01-PKSD-08	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010014	FD1-170829-01-PKSD-07	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010015	FD1-170829-01-PKSD-06	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010016	FD1-170829-01-PKSD-05	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010017	FD1-170829-01-PKSD-04	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010018	FD1-170829-01-PKSD-03	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158010019	FD1-170829-01-PKSD-02	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	ETB	1
40158010020	**FD1-170829-01-PKSD-01**	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

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

Analyte Comments:

QC Batch: 286670

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

- ND3-170829-01-PKSD-03 (Lab ID: 40158010001)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 07, 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.: 40158010

Sample: ND3-170829-01-PKSD-03 **Lab ID: 40158010001** Collected: 08/29/17 12:10 Received: 10/05/17 09:40 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)	**<68.6**	ug/kg	301	68.6	6	04/23/18 06:47	04/25/18 14:41	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**285J**	ug/kg	301	68.6	6	04/23/18 06:47	04/25/18 14:41	11104-28-2	
PCB-1232 (Aroclor 1232)	**<68.6**	ug/kg	301	68.6	6	04/23/18 06:47	04/25/18 14:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<68.6**	ug/kg	301	68.6	6	04/23/18 06:47	04/25/18 14:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**1390**	ug/kg	301	68.6	6	04/23/18 06:47	04/25/18 14:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**680**	ug/kg	301	68.6	6	04/23/18 06:47	04/25/18 14:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**145J**	ug/kg	301	68.6	6	04/23/18 06:47	04/25/18 14:41	11096-82-5	
PCB, Total	**2490**	ug/kg	301	68.6	6	04/23/18 06:47	04/25/18 14:41	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		6	04/23/18 06:47	04/25/18 14:41	877-09-8	
Decachlorobiphenyl (S)	110	%	60-140		6	04/23/18 06:47	04/25/18 14:41	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.0**	%	0.030	0.030	1		04/23/18 13:58		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-20 **Lab ID: 40158010002** Collected: 08/29/17 09:14 Received: 10/05/17 09:40 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	04/23/18 06:47	04/24/18 15:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 15:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 15:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 15:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**27.9J**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 15:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**22.5J**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 15:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**21.5J**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 15:33	11096-82-5	
PCB, Total	**71.9**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 15:33	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	60-140		1	04/23/18 06:47	04/24/18 15:33	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		1	04/23/18 06:47	04/24/18 15:33	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.8**	%	0.030	0.030	1		04/23/18 13:58		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-19 **Lab ID: 40158010003** Collected: 08/29/17 09:12 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 15:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 15:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 15:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 15:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**23.1J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 15:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**18.9J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 15:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**21.3J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 15:49	11096-82-5	
PCB, Total	**63.3**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 15:49	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		1	04/23/18 06:47	04/24/18 15:49	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	04/23/18 06:47	04/24/18 15:49	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.4**	%	0.030	0.030	1		04/23/18 13:58		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-18 **Lab ID: 40158010004** Collected: 08/29/17 09:10 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 16:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 16:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 16:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 16:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**17.9J**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 16:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**20.6J**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 16:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**13.6J**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 16:04	11096-82-5	
PCB, Total	**52.1**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 16:04	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		1	04/23/18 06:47	04/24/18 16:04	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	04/23/18 06:47	04/24/18 16:04	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	0.030	0.030	1		04/23/18 13:58		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-17 **Lab ID: 40158010005** Collected: 08/29/17 09:09 Received: 10/05/17 09:40 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)	**<16.0**	ug/kg	70.4	16.0	1	04/23/18 06:47	04/24/18 16:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.0**	ug/kg	70.4	16.0	1	04/23/18 06:47	04/24/18 16:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.0**	ug/kg	70.4	16.0	1	04/23/18 06:47	04/24/18 16:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.0**	ug/kg	70.4	16.0	1	04/23/18 06:47	04/24/18 16:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**24.0J**	ug/kg	70.4	16.0	1	04/23/18 06:47	04/24/18 16:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**20.8J**	ug/kg	70.4	16.0	1	04/23/18 06:47	04/24/18 16:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**23.8J**	ug/kg	70.4	16.0	1	04/23/18 06:47	04/24/18 16:52	11096-82-5	
PCB, Total	**68.7J**	ug/kg	70.4	16.0	1	04/23/18 06:47	04/24/18 16:52	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	60-140		1	04/23/18 06:47	04/24/18 16:52	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	04/23/18 06:47	04/24/18 16:52	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.8**	%	0.030	0.030	1		04/23/18 13:59		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-16 **Lab ID: 40158010006** Collected: 08/29/17 09:07 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod			Preparation Method: EPA 3541					
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.8	11.4	1	04/23/18 06:47	04/24/18 17:08	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	04/23/18 06:47	04/24/18 17:08	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	04/23/18 06:47	04/24/18 17:08	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	04/23/18 06:47	04/24/18 17:08	53469-21-9	
PCB-1248 (Aroclor 1248)	**24.9J**	ug/kg	49.8	11.4	1	04/23/18 06:47	04/24/18 17:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**20.1J**	ug/kg	49.8	11.4	1	04/23/18 06:47	04/24/18 17:08	11097-69-1	
PCB-1260 (Aroclor 1260)	**22.4J**	ug/kg	49.8	11.4	1	04/23/18 06:47	04/24/18 17:08	11096-82-5	
PCB, Total	**67.4**	ug/kg	49.8	11.4	1	04/23/18 06:47	04/24/18 17:08	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		1	04/23/18 06:47	04/24/18 17:08	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	04/23/18 06:47	04/24/18 17:08	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.2**	%	0.030	0.030	1		04/23/18 13:59		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-15 **Lab ID: 40158010007** Collected: 08/29/17 09:06 Received: 10/05/17 09:40 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)	**<14.5**	ug/kg	63.4	14.5	1	04/23/18 06:47	04/24/18 17:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<14.5**	ug/kg	63.4	14.5	1	04/23/18 06:47	04/24/18 17:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<14.5**	ug/kg	63.4	14.5	1	04/23/18 06:47	04/24/18 17:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<14.5**	ug/kg	63.4	14.5	1	04/23/18 06:47	04/24/18 17:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**20.5J**	ug/kg	63.4	14.5	1	04/23/18 06:47	04/24/18 17:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**18.7J**	ug/kg	63.4	14.5	1	04/23/18 06:47	04/24/18 17:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**19.5J**	ug/kg	63.4	14.5	1	04/23/18 06:47	04/24/18 17:24	11096-82-5	
PCB, Total	**58.8J**	ug/kg	63.4	14.5	1	04/23/18 06:47	04/24/18 17:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		1	04/23/18 06:47	04/24/18 17:24	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	04/23/18 06:47	04/24/18 17:24	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	0.030	0.030	1		04/23/18 13:59		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-14 **Lab ID: 40158010008** Collected: 08/29/17 09:04 Received: 10/05/17 09:40 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)	**<18.5**	ug/kg	81.0	18.5	1	04/23/18 06:47	04/24/18 17:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<18.5**	ug/kg	81.0	18.5	1	04/23/18 06:47	04/24/18 17:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<18.5**	ug/kg	81.0	18.5	1	04/23/18 06:47	04/24/18 17:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<18.5**	ug/kg	81.0	18.5	1	04/23/18 06:47	04/24/18 17:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**18.9J**	ug/kg	81.0	18.5	1	04/23/18 06:47	04/24/18 17:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**24.4J**	ug/kg	81.0	18.5	1	04/23/18 06:47	04/24/18 17:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**<18.5**	ug/kg	81.0	18.5	1	04/23/18 06:47	04/24/18 17:40	11096-82-5	
PCB, Total	**43.3J**	ug/kg	81.0	18.5	1	04/23/18 06:47	04/24/18 17:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		1	04/23/18 06:47	04/24/18 17:40	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	04/23/18 06:47	04/24/18 17:40	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.3**	%	0.030	0.030	1		04/23/18 13:59		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-13 **Lab ID: 40158010009** Collected: 08/29/17 09:03 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 17:55	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 17:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 17:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 17:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**27.4J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 17:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**32.5J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 17:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**16.0J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 17:55	11096-82-5	
PCB, Total	**76.0**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 17:55	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		1	04/23/18 06:47	04/24/18 17:55	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	04/23/18 06:47	04/24/18 17:55	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.5**	%	0.030	0.030	1		04/23/18 13:59		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-12 **Lab ID: 40158010010** Collected: 08/29/17 09:01 Received: 10/05/17 09:40 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)	**<14.0**	ug/kg	61.4	14.0	1	04/23/18 06:47	04/24/18 18:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<14.0**	ug/kg	61.4	14.0	1	04/23/18 06:47	04/24/18 18:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<14.0**	ug/kg	61.4	14.0	1	04/23/18 06:47	04/24/18 18:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<14.0**	ug/kg	61.4	14.0	1	04/23/18 06:47	04/24/18 18:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**30.1J**	ug/kg	61.4	14.0	1	04/23/18 06:47	04/24/18 18:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**22.8J**	ug/kg	61.4	14.0	1	04/23/18 06:47	04/24/18 18:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**24.1J**	ug/kg	61.4	14.0	1	04/23/18 06:47	04/24/18 18:11	11096-82-5	
PCB, Total	**77.0**	ug/kg	61.4	14.0	1	04/23/18 06:47	04/24/18 18:11	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		1	04/23/18 06:47	04/24/18 18:11	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	04/23/18 06:47	04/24/18 18:11	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.7**	%	0.030	0.030	1		04/23/18 13:59		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-10 **Lab ID: 40158010011** Collected: 08/29/17 08:57 Received: 10/05/17 09:40 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)	**<16.2**	ug/kg	71.1	16.2	1	04/23/18 06:47	04/24/18 18:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.2**	ug/kg	71.1	16.2	1	04/23/18 06:47	04/24/18 18:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.2**	ug/kg	71.1	16.2	1	04/23/18 06:47	04/24/18 18:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.2**	ug/kg	71.1	16.2	1	04/23/18 06:47	04/24/18 18:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**28.1J**	ug/kg	71.1	16.2	1	04/23/18 06:47	04/24/18 18:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**23.2J**	ug/kg	71.1	16.2	1	04/23/18 06:47	04/24/18 18:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**23.1J**	ug/kg	71.1	16.2	1	04/23/18 06:47	04/24/18 18:27	11096-82-5	
PCB, Total	**74.4**	ug/kg	71.1	16.2	1	04/23/18 06:47	04/24/18 18:27	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	101	%	60-140		1	04/23/18 06:47	04/24/18 18:27	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		1	04/23/18 06:47	04/24/18 18:27	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.9**	%	0.030	0.030	1		04/23/18 14:00		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-09 **Lab ID: 40158010012** Collected: 08/29/17 08:55 Received: 10/05/17 09:40 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	04/23/18 06:47	04/24/18 18:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 18:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 18:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 18:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**13.6J**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 18:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**16.4J**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 18:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**13.7J**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 18:43	11096-82-5	
PCB, Total	**43.7J**	ug/kg	50.0	11.4	1	04/23/18 06:47	04/24/18 18:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	104	%	60-140		1	04/23/18 06:47	04/24/18 18:43	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		1	04/23/18 06:47	04/24/18 18:43	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.6**	%	0.030	0.030	1		04/23/18 14:00		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-08 **Lab ID: 40158010013** Collected: 08/29/17 08:53 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod		Preparation Method: EPA 3541						
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 18:59	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 18:59	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 18:59	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 18:59	53469-21-9	
PCB-1248 (Aroclor 1248)	**23.3J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 18:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**17.6J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 18:59	11097-69-1	
PCB-1260 (Aroclor 1260)	**22.9J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 18:59	11096-82-5	
PCB, Total	**63.9**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 18:59	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		1	04/23/18 06:47	04/24/18 18:59	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	04/23/18 06:47	04/24/18 18:59	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.9**	%	0.030	0.030	1		04/23/18 14:00		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-07 **Lab ID: 40158010014** Collected: 08/29/17 08:52 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod		Preparation Method: EPA 3541						
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 19:15	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 19:15	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 19:15	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 19:15	53469-21-9	
PCB-1248 (Aroclor 1248)	**19.4J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 19:15	12672-29-6	
PCB-1254 (Aroclor 1254)	**17.9J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 19:15	11097-69-1	
PCB-1260 (Aroclor 1260)	**22.5J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 19:15	11096-82-5	
PCB, Total	**59.9**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 19:15	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		1	04/23/18 06:47	04/24/18 19:15	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		1	04/23/18 06:47	04/24/18 19:15	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.3**	%	0.030	0.030	1		04/23/18 14:00		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-06 **Lab ID: 40158010015** Collected: 08/29/17 08:50 Received: 10/05/17 09:40 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)	**<13.6**	ug/kg	59.6	13.6	1	04/23/18 06:47	04/24/18 20:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<13.6**	ug/kg	59.6	13.6	1	04/23/18 06:47	04/24/18 20:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<13.6**	ug/kg	59.6	13.6	1	04/23/18 06:47	04/24/18 20:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<13.6**	ug/kg	59.6	13.6	1	04/23/18 06:47	04/24/18 20:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**25.7J**	ug/kg	59.6	13.6	1	04/23/18 06:47	04/24/18 20:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**23.0J**	ug/kg	59.6	13.6	1	04/23/18 06:47	04/24/18 20:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**26.7J**	ug/kg	59.6	13.6	1	04/23/18 06:47	04/24/18 20:02	11096-82-5	
PCB, Total	**75.5**	ug/kg	59.6	13.6	1	04/23/18 06:47	04/24/18 20:02	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	101	%	60-140		1	04/23/18 06:47	04/24/18 20:02	877-09-8	
Decachlorobiphenyl (S)	99	%	60-140		1	04/23/18 06:47	04/24/18 20:02	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.9**	%	0.030	0.030	1		04/23/18 14:00		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-05 **Lab ID: 40158010016** Collected: 08/29/17 08:49 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**24.9J**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**34.1J**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**19.4J**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:18	11096-82-5	
PCB, Total	**78.5**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	60-140		1	04/23/18 06:47	04/24/18 20:18	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		1	04/23/18 06:47	04/24/18 20:18	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.8**	%	0.030	0.030	1		04/23/18 14:01		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-04 **Lab ID: 40158010017** Collected: 08/29/17 08:48 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:34	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:34	53469-21-9	
PCB-1248 (Aroclor 1248)	**27.9J**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**30.7J**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**16.6J**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:34	11096-82-5	
PCB, Total	**75.2**	ug/kg	50.1	11.4	1	04/23/18 06:47	04/24/18 20:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	60-140		1	04/23/18 06:47	04/24/18 20:34	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	04/23/18 06:47	04/24/18 20:34	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.9**	%	0.030	0.030	1		04/23/18 14:01		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-03 **Lab ID: 40158010018** Collected: 08/29/17 08:46 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod			Preparation Method: EPA 3541					
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 20:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 20:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 20:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 20:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**38.0J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 20:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**32.2J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 20:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**21.1J**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 20:50	11096-82-5	
PCB, Total	**91.3**	ug/kg	49.9	11.4	1	04/23/18 06:47	04/24/18 20:50	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		1	04/23/18 06:47	04/24/18 20:50	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	04/23/18 06:47	04/24/18 20:50	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.5**	%	0.030	0.030	1		04/23/18 14:01		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-02 **Lab ID: 40158010019** Collected: 08/29/17 08:45 Received: 10/05/17 09:40 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)	**<12.5**	ug/kg	55.0	12.5	1	04/23/18 06:47	04/24/18 21:06	12674-11-2	
PCB-1221 (Aroclor 1221)	**<12.5**	ug/kg	55.0	12.5	1	04/23/18 06:47	04/24/18 21:06	11104-28-2	
PCB-1232 (Aroclor 1232)	**<12.5**	ug/kg	55.0	12.5	1	04/23/18 06:47	04/24/18 21:06	11141-16-5	
PCB-1242 (Aroclor 1242)	**<12.5**	ug/kg	55.0	12.5	1	04/23/18 06:47	04/24/18 21:06	53469-21-9	
PCB-1248 (Aroclor 1248)	**16.9J**	ug/kg	55.0	12.5	1	04/23/18 06:47	04/24/18 21:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**16.6J**	ug/kg	55.0	12.5	1	04/23/18 06:47	04/24/18 21:06	11097-69-1	
PCB-1260 (Aroclor 1260)	**<12.5**	ug/kg	55.0	12.5	1	04/23/18 06:47	04/24/18 21:06	11096-82-5	
PCB, Total	**33.5J**	ug/kg	55.0	12.5	1	04/23/18 06:47	04/24/18 21:06	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		1	04/23/18 06:47	04/24/18 21:06	877-09-8	
Decachlorobiphenyl (S)	94	%	60-140		1	04/23/18 06:47	04/24/18 21:06	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.1**	%	0.030	0.030	1		04/23/18 14:01		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Sample: FD1-170829-01-PKSD-01 **Lab ID: 40158010020** Collected: 08/29/17 08:39 Received: 10/05/17 09:40 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	1	04/23/18 06:47	04/24/18 21:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.9**	ug/kg	100	22.9	1	04/23/18 06:47	04/24/18 21:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.9**	ug/kg	100	22.9	1	04/23/18 06:47	04/24/18 21:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.9**	ug/kg	100	22.9	1	04/23/18 06:47	04/24/18 21:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**23.9J**	ug/kg	100	22.9	1	04/23/18 06:47	04/24/18 21:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**26.5J**	ug/kg	100	22.9	1	04/23/18 06:47	04/24/18 21:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**<22.9**	ug/kg	100	22.9	1	04/23/18 06:47	04/24/18 21:21	11096-82-5	
PCB, Total	**50.4J**	ug/kg	100	22.9	1	04/23/18 06:47	04/24/18 21:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		1	04/23/18 06:47	04/24/18 21:21	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		1	04/23/18 06:47	04/24/18 21:21	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.0**	%	0.030	0.030	1		04/23/18 14:01		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

QC Batch: 286670 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB

Associated Lab Samples: 40158010001, 40158010002, 40158010003, 40158010004, 40158010005, 40158010006, 40158010007, 40158010008, 40158010009, 40158010010, 40158010011, 40158010012, 40158010013, 40158010014, 40158010015, 40158010016, 40158010017, 40158010018, 40158010019, 40158010020

METHOD BLANK: 1677350 | Matrix: Tissue

Associated Lab Samples: 40158010001, 40158010002, 40158010003, 40158010004, 40158010005, 40158010006, 40158010007, 40158010008, 40158010009, 40158010010, 40158010011, 40158010012, 40158010013, 40158010014, 40158010015, 40158010016, 40158010017, 40158010018, 40158010019, 40158010020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/24/18 14:45	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/24/18 14:45	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/24/18 14:45	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/24/18 14:45	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/24/18 14:45	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/24/18 14:45	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/24/18 14:45	
Decachlorobiphenyl (S)	%	99	60-140		04/24/18 14:45	
Tetrachloro-m-xylene (S)	%	80	60-140		04/24/18 14:45	

LABORATORY CONTROL SAMPLE: 1677351

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	246	98	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)	%			99	60-140	
Tetrachloro-m-xylene (S)	%			82	60-140	

MATRIX SPIKE SAMPLE: 1677352

Parameter	Units	40158010020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.9		<22.8			
PCB-1221 (Aroclor 1221)	ug/kg	<22.9		<22.8			
PCB-1232 (Aroclor 1232)	ug/kg	<22.9		<22.8			
PCB-1242 (Aroclor 1242)	ug/kg	<22.9	500	469	94	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	23.9J		319			
PCB-1254 (Aroclor 1254)	ug/kg	26.5J		66.0J			
PCB-1260 (Aroclor 1260)	ug/kg	<22.9		<22.8			
Decachlorobiphenyl (S)	%				84	60-140	
Tetrachloro-m-xylene (S)	%				82	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.: 40158010

SAMPLE DUPLICATE: 1677353

Parameter	Units	40158010020 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.9	<22.6		40	
PCB-1221 (Aroclor 1221)	ug/kg	<22.9	<22.6		40	
PCB-1232 (Aroclor 1232)	ug/kg	<22.9	<22.6		40	
PCB-1242 (Aroclor 1242)	ug/kg	<22.9	<22.6		40	
PCB-1248 (Aroclor 1248)	ug/kg	23.9J	23.5J		40	
PCB-1254 (Aroclor 1254)	ug/kg	26.5J	29.9J		40	
PCB-1260 (Aroclor 1260)	ug/kg	<22.9	<22.6		40	
Decachlorobiphenyl (S)	%	92	93	1		
Tetrachloro-m-xylene (S)	%	89	92	3		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

QC Batch: 286704 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID

Associated Lab Samples: 40158010001, 40158010002, 40158010003, 40158010004, 40158010005, 40158010006, 40158010007, 40158010008, 40158010009, 40158010010, 40158010011, 40158010012, 40158010013, 40158010014, 40158010015, 40158010016, 40158010017, 40158010018, 40158010019, 40158010020

METHOD BLANK: 1677447 | Matrix: Tissue

Associated Lab Samples: 40158010001, 40158010002, 40158010003, 40158010004, 40158010005, 40158010006, 40158010007, 40158010008, 40158010009, 40158010010, 40158010011, 40158010012, 40158010013, 40158010014, 40158010015, 40158010016, 40158010017, 40158010018, 40158010019, 40158010020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/23/18 13:57	

MATRIX SPIKE SAMPLE: 1683156

Parameter	Units	40158010020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	3.0		2.2			

SAMPLE DUPLICATE: 1677450

Parameter	Units	40158010020 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	3.0	3.1	3	40	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158010

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40158010001	**ND3-170829-01-PKSD-03**	EPA 3541	286670	EPA 8082A Mod	286840
40158010002	**FD1-170829-01-PKSD-20**	EPA 3541	286670	EPA 8082A Mod	286840
40158010003	**FD1-170829-01-PKSD-19**	EPA 3541	286670	EPA 8082A Mod	286840
40158010004	**FD1-170829-01-PKSD-18**	EPA 3541	286670	EPA 8082A Mod	286840
40158010005	**FD1-170829-01-PKSD-17**	EPA 3541	286670	EPA 8082A Mod	286840
40158010006	**FD1-170829-01-PKSD-16**	EPA 3541	286670	EPA 8082A Mod	286840
40158010007	**FD1-170829-01-PKSD-15**	EPA 3541	286670	EPA 8082A Mod	286840
40158010008	**FD1-170829-01-PKSD-14**	EPA 3541	286670	EPA 8082A Mod	286840
40158010009	**FD1-170829-01-PKSD-13**	EPA 3541	286670	EPA 8082A Mod	286840
40158010010	**FD1-170829-01-PKSD-12**	EPA 3541	286670	EPA 8082A Mod	286840
40158010011	**FD1-170829-01-PKSD-10**	EPA 3541	286670	EPA 8082A Mod	286840
40158010012	**FD1-170829-01-PKSD-09**	EPA 3541	286670	EPA 8082A Mod	286840
40158010013	**FD1-170829-01-PKSD-08**	EPA 3541	286670	EPA 8082A Mod	286840
40158010014	**FD1-170829-01-PKSD-07**	EPA 3541	286670	EPA 8082A Mod	286840
40158010015	**FD1-170829-01-PKSD-06**	EPA 3541	286670	EPA 8082A Mod	286840
40158010016	**FD1-170829-01-PKSD-05**	EPA 3541	286670	EPA 8082A Mod	286840
40158010017	**FD1-170829-01-PKSD-04**	EPA 3541	286670	EPA 8082A Mod	286840
40158010018	**FD1-170829-01-PKSD-03**	EPA 3541	286670	EPA 8082A Mod	286840
40158010019	**FD1-170829-01-PKSD-02**	EPA 3541	286670	EPA 8082A Mod	286840
40158010020	**FD1-170829-01-PKSD-01**	EPA 3541	286670	EPA 8082A Mod	286840
40158010001	**ND3-170829-01-PKSD-03**	Pace Lipid	286704		
40158010002	**FD1-170829-01-PKSD-20**	Pace Lipid	286704		
40158010003	**FD1-170829-01-PKSD-19**	Pace Lipid	286704		
40158010004	**FD1-170829-01-PKSD-18**	Pace Lipid	286704		
40158010005	**FD1-170829-01-PKSD-17**	Pace Lipid	286704		
40158010006	**FD1-170829-01-PKSD-16**	Pace Lipid	286704		
40158010007	**FD1-170829-01-PKSD-15**	Pace Lipid	286704		
40158010008	**FD1-170829-01-PKSD-14**	Pace Lipid	286704		
40158010009	**FD1-170829-01-PKSD-13**	Pace Lipid	286704		
40158010010	**FD1-170829-01-PKSD-12**	Pace Lipid	286704		
40158010011	**FD1-170829-01-PKSD-10**	Pace Lipid	286704		
40158010012	**FD1-170829-01-PKSD-09**	Pace Lipid	286704		
40158010013	**FD1-170829-01-PKSD-08**	Pace Lipid	286704		
40158010014	**FD1-170829-01-PKSD-07**	Pace Lipid	286704		
40158010015	**FD1-170829-01-PKSD-06**	Pace Lipid	286704		
40158010016	**FD1-170829-01-PKSD-05**	Pace Lipid	286704		
40158010017	**FD1-170829-01-PKSD-04**	Pace Lipid	286704		
40158010018	**FD1-170829-01-PKSD-03**	Pace Lipid	286704		
40158010019	**FD1-170829-01-PKSD-02**	Pace Lipid	286704		
40158010020	**FD1-170829-01-PKSD-01**	Pace Lipid	286704		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

40158010

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170829-T11-01
Sample Custodian: SA
Lab: Pace - Green Bay

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

	COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	001	ND3-170829-01	ND3-170829-01-PKSD-03	8/29/2017	12:10	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
002	002	FD1-170829-01	FD1-170829-01-PKSD-20	8/29/2017	9:14	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
003	003	FD1-170829-01	FD1-170829-01-PKSD-19	8/29/2017	9:12	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
004	004	FD1-170829-01	FD1-170829-01-PKSD-18	8/29/2017	9:10	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
005	005	FD1-170829-01	FD1-170829-01-PKSD-17	8/29/2017	9:09	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
006	006	FD1-170829-01	FD1-170829-01-PKSD-16	8/29/2017	9:07	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
007	007	FD1-170829-01	FD1-170829-01-PKSD-15	8/29/2017	9:06	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
008	008	FD1-170829-01	FD1-170829-01-PKSD-14	8/29/2017	9:04	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
009	009	FD1-170829-01	FD1-170829-01-PKSD-13	8/29/2017	9:03	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
010	010	FD1-170829-01	FD1-170829-01-PKSD-12	8/29/2017	9:01	☐	1	F	WH	☐	☐	☐	☑	☑	☐	

1-Ziplock

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature via FED EX	Signature
Print Name Jim Ryan	Print Name M Broker	Print Name M Broker	Print Name A. Butler	Print Name A. Butler	Print Name
Company Anchor QEA	Company PACE	Company PACE	Company PACE T:	Company PACE	Company Fedex
Date/Time 8/30/17	Date/Time 8/30/17 9:50	Date/Time 8/30/17 10:35	Date/Time 8/30/17 10:35	Date/Time 10/4/17 16:00	Date/Time 10/5/17 0940

Alecia
Alecia
Pace
10/5/17 0940

Date Printed: 8/29/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 1 of 2**

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170829-T11-01
Sample Custodian: SA
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
011	FD1-170829-01	FD1-170829-01-PKSD-10	8/29/2017	8:57	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
012	FD1-170829-01	FD1-170829-01-PKSD-09	8/29/2017	8:55	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
013	FD1-170829-01	FD1-170829-01-PKSD-08	8/29/2017	8:53	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
014	FD1-170829-01	FD1-170829-01-PKSD-07	8/29/2017	8:52	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
015	FD1-170829-01	FD1-170829-01-PKSD-06	8/29/2017	8:50	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
016	FD1-170829-01	FD1-170829-01-PKSD-05	8/29/2017	8:49	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
017	FD1-170829-01	FD1-170829-01-PKSD-04	8/29/2017	8:48	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
018	FD1-170829-01	FD1-170829-01-PKSD-03	8/29/2017	8:46	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
019	FD1-170829-01	FD1-170829-01-PKSD-02	8/29/2017	8:45	☐	1	F	WH	☐	☐	☐	☑	☑	☐	
020	FD1-170829-01	FD1-170829-01-PKSD-01	8/29/2017	8:39	☑	1	F	WH	☐	☐	☐	☑	☑	☐	

OK CAS 10/5/17

1-ziplock

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature VIA FED EX	Signature
Print Name Jim Ryan	Print Name M Broker	Print Name M Broker	Print Name A. Bittle	Print Name A. Bittle	Print Name
Company Anchor QEA	Company PACE	Company PACE	Company PACE	Company PACE	Company Fedex
Date/Time 8/30/17	Date/Time 8/30/17 9:50	Date/Time 8/30/17 10:35	Date/Time 8/30/17 10:35	Date/Time 10/4/17 16:00	Date/Time 10/5/17 09:40

alecia Alecia Pace 10/5/17 09:40

Date Printed: 8/29/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** *TPCB-LIPD-PEST-MERCURY* **Page 2 of 2**

Pace Analytical

Sample Condition Upon Receipt

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

Project #: WO#: 40158010
40158010

Client Name: GE

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

Tracking #: 409994704799

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

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

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

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

Cooler Temperature Uncorr: / /Corr: / **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: 10/5/17
Initials: [illegible]

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AL for TN **Date:** 10-5-17

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40158010
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

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

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

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

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

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 FD1-170829-01-PKSD-01 was designated as the parent sample for the MS for this SDG and one portion of the sample was fortified with Aroclor 1242. The QAPP specified accuracy criteria were met.

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

F. Sample Duplicate: Sample FD1-170829-01-PKSD-01 was designated as the duplicate for this SDG. The QAPP specified precision criteria were met. Duplicate results are not evaluated below the reporting limit.

G. Dilutions: Sample ND3-170829-01-PKSD-03 was analyzed at a dilution to bring the level of Aroclors within the instrument calibration range.

H. Reanalysis: Sample ND3-170829-01-PKSD-03 was initially analyzed diluted based on screener data. Upon analysis, the sample was found to require reanalysis at a different dilution to bring individual Aroclor peaks within instrument calibration range. The sample was reported with the “1q” data qualifier on the final report to note the occurrence.

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

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

Signed: Leigh A Begalske Date: 05/17/18

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.: 40158010 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1677350	1677350BLANK	99	80
1677351	1677351LCS	99	82
1677352	1677352MS	84	82
1677353	1677353DUP	93	92
40158010001	ND3-170829-01-PKSD-03	110	96
40158010002	FD1-170829-01-PKSD-20	95	98
40158010003	FD1-170829-01-PKSD-19	90	93
40158010004	FD1-170829-01-PKSD-18	88	91
40158010005	FD1-170829-01-PKSD-17	92	90
40158010006	FD1-170829-01-PKSD-16	92	93
40158010007	FD1-170829-01-PKSD-15	89	88
40158010008	FD1-170829-01-PKSD-14	89	86
40158010009	FD1-170829-01-PKSD-13	94	96
40158010010	FD1-170829-01-PKSD-12	89	91
40158010011	FD1-170829-01-PKSD-10	100	101
40158010012	FD1-170829-01-PKSD-09	101	104
40158010013	FD1-170829-01-PKSD-08	94	95
40158010014	FD1-170829-01-PKSD-07	95	96
40158010015	FD1-170829-01-PKSD-06	99	101
40158010016	FD1-170829-01-PKSD-05	95	97
40158010017	FD1-170829-01-PKSD-04	94	97
40158010018	FD1-170829-01-PKSD-03	92	93
40158010019	FD1-170829-01-PKSD-02	94	95
40158010020	FD1-170829-01-PKSD-01	92	89

	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: 04/23/2018

Instrument: 40GCSJ

Lab File ID: 042418.B\042418011.D

Lab Sample ID: 1677351LCS

Date Analyzed (1): 04/24/2018

LCS Lot No: 192096

SDG No.: 40158010

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	246	98	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: 04/23/2018

Instrument: 40GCSJ

Parent Sample ID: FD1-170829-01-PKSD-01

Matrix Spike - Sample No: 1677352MS

Date Analyzed (1): 04/24/2018

Lab File ID: 042418.B\042418036.D

SDG No.: 40158010

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	500	<22.9	469	94	70-130

Spike Recovery: 0 out of 1 outside limits.

05/16/2018 3:39

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/23/2018

Instrument 40GCSJ

Lab Sample ID: FD1-170829-01-PKSD-01

Duplicate Sample No: 40158010020DUP

Date Analyzed: 04/24/2018

Lab File ID: 042418.B\042418037.D

SDG No.: 40158010

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<22.9	<22.6		0-40
PCB-1221 (Aroclor 1221)	<22.9	<22.6		0-40
PCB-1232 (Aroclor 1232)	<22.9	<22.6		0-40
PCB-1242 (Aroclor 1242)	<22.9	<22.6		0-40
PCB-1248 (Aroclor 1248)	23.9J	23.5J		0-40
PCB-1254 (Aroclor 1254)	26.5J	29.9J		0-40
PCB-1260 (Aroclor 1260)	<22.9	<22.6		0-40

RPD: ____ out of __0__ outside limits.

SAMPLE NO.

1677350BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158010 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1677350

Lab File ID: 042418.B\042418010.D Date Analyzed: 04/24/2018 Time:14:45

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1677351LCS	1677351	042418.B\042418011.D	04/24/2018 15:01
FD1-170829-01-PKSD-20	40158010002	042418.B\042418013.D	04/24/2018 15:33
FD1-170829-01-PKSD-19	40158010003	042418.B\042418014.D	04/24/2018 15:49
FD1-170829-01-PKSD-18	40158010004	042418.B\042418015.D	04/24/2018 16:04
FD1-170829-01-PKSD-17	40158010005	042418.B\042418018.D	04/24/2018 16:52
FD1-170829-01-PKSD-16	40158010006	042418.B\042418019.D	04/24/2018 17:08
FD1-170829-01-PKSD-15	40158010007	042418.B\042418020.D	04/24/2018 17:24
FD1-170829-01-PKSD-14	40158010008	042418.B\042418021.D	04/24/2018 17:40
FD1-170829-01-PKSD-13	40158010009	042418.B\042418022.D	04/24/2018 17:55
FD1-170829-01-PKSD-12	40158010010	042418.B\042418023.D	04/24/2018 18:11
FD1-170829-01-PKSD-10	40158010011	042418.B\042418024.D	04/24/2018 18:27
FD1-170829-01-PKSD-09	40158010012	042418.B\042418025.D	04/24/2018 18:43
FD1-170829-01-PKSD-08	40158010013	042418.B\042418026.D	04/24/2018 18:59
FD1-170829-01-PKSD-07	40158010014	042418.B\042418027.D	04/24/2018 19:15
FD1-170829-01-PKSD-06	40158010015	042418.B\042418030.D	04/24/2018 20:02
FD1-170829-01-PKSD-05	40158010016	042418.B\042418031.D	04/24/2018 20:18
FD1-170829-01-PKSD-04	40158010017	042418.B\042418032.D	04/24/2018 20:34
FD1-170829-01-PKSD-03	40158010018	042418.B\042418033.D	04/24/2018 20:50
FD1-170829-01-PKSD-02	40158010019	042418.B\042418034.D	04/24/2018 21:06
FD1-170829-01-PKSD-01	40158010020	042418.B\042418035.D	04/24/2018 21:21
1677352MS	1677352	042418.B\042418036.D	04/24/2018 21:37
1677353DUP	1677353	042418.B\042418037.D	04/24/2018 21:53
ND3-170829-01-PKSD-03	40158010001	042518.B\042518006.D	04/25/2018 14:41

SAMPLE NO.

ND3-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010001
Date Analyzed: 04/25/2018 14:41
Lab File ID: 042518.B\042518006.D
Initial wt/vol: 9.9657 g Final wt/vol: 5 mL Dilution: 6
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<68.6	U
11104-28-2	PCB-1221 (Aroclor 1221)	285	J
11141-16-5	PCB-1232 (Aroclor 1232)	<68.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<68.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	1390	
11097-69-1	PCB-1254 (Aroclor 1254)	680	
11096-82-5	PCB-1260 (Aroclor 1260)	145	J
1336-36-3	PCB, Total	2490	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518006.D
Lab Smp Id: 40158010001 Client Smp ID: ND3-170829-01-PKSD-
Inj Date : 25-APR-2018 14:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010001 x6,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 26-Apr-2018 08:09 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6
Dil Factor: 6.00000
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	6.000	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
1.769	14165	14047	0.992	0.03		
2.411	173638	129324	0.745	0.40	1 Aroclor 1221	BA
2.485	1977637	1808453	0.914	4.60	$ 2 Tetrachloro-m-xylene	BA
2.683	19741	12981	0.658	0.04	1 Aroclor 1221	BA
2.789	25194	20605	0.818	0.05	1 Aroclor 1221	BA
2.851	79492	65123	0.819	0.18	1 Aroclor 1221	BA
2.971	22771	14144	0.621	0.05		
3.021	16266	13965	0.859	0.03		
3.055	207470	189122	0.912	0.48		
3.317	156218	150757	0.965	0.36		
3.344	248328	222874	0.898	0.57		
3.433	349959	317481	0.907	0.81		
3.519	414662	374463	0.903	0.96		
3.647	63859	52717	0.826	0.14		
3.732	334152	323817	0.969	0.77		
3.756	134835	131248	0.973	0.31		
3.814	1357444	770036	0.567	3.15		
3.938	413542	343378	0.830	0.96		
3.994	333369	301561	0.905	0.77		
4.058	170774	157398	0.922	0.39		
4.133	19497	15395	0.790	0.04		
4.215	1976329	1776019	0.899	4.59		
4.261	2031894	1905987	0.938	4.72	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	2198769	1776802	0.808	5.11	
4.348	42991	30473	0.709	0.10	
4.417	469984	440097	0.936	1.09	
4.452	597057	542876	0.909	1.38	
4.545	1416231	1293115	0.913	3.29	6 Aroclor 1248
4.590	176585	159949	0.906	0.41	
4.618	83171	68463	0.823	0.19	
4.681	179768	155630	0.866	0.41	
4.736	203574	150773	0.741	0.47	
4.768	324697	301780	0.929	0.75	
4.812	850859	814470	0.957	1.97	6 Aroclor 1248
4.848	894413	854816	0.956	2.08	
4.879	2255544	1294400	0.574	5.73	6 Aroclor 1248
4.957	516854	442927	0.857	1.20	
5.037	810088	735195	0.908	1.88	6 Aroclor 1248
5.101	898026	800025	0.891	2.08	
5.162	1410707	1191098	0.844	3.28	7 Aroclor 1254
5.212	1119627	993702	0.888	2.60	
5.283	153422	145371	0.948	0.35	
5.306	222313	180867	0.814	0.51	
5.363	409220	359208	0.878	0.95	
5.406	908270	817596	0.900	2.11	7 Aroclor 1254
5.446	668479	568979	0.851	1.55	
5.477	132561	118129	0.891	0.30	
5.509	1716849	1532528	0.893	3.99	7 Aroclor 1254
5.575	82036	71723	0.874	0.19	
5.604	203787	170830	0.838	0.47	
5.675	505419	469860	0.930	1.17	
5.712	199912	153213	0.766	0.46	
5.740	331145	245152	0.740	0.77	
5.790	1928096	1464908	0.760	4.48	
5.883	194491	142891	0.735	0.45	
5.931	199054	132697	0.667	0.46	
5.992	346343	314617	0.908	0.80	
6.024	806543	702136	0.871	1.87	7 Aroclor 1254
6.055	1086548	920312	0.847	2.52	
6.168	254054	159427	0.628	0.59	
6.225	92568	95047	1.027	0.21	
6.240	145584	119607	0.822	0.33	
6.300	1704622	1398105	0.820	3.96	7 Aroclor 1254
6.333	148845	138711	0.932	0.34	
6.375	80022	61166	0.764	0.18	
6.432	206701	164560	0.796	0.48	
6.508	451219	391297	0.867	1.04	
6.535	312234	272453	0.873	0.72	
6.560	108963	100010	0.918	0.25	
6.604	67996	49341	0.726	0.15	
6.658	39184	28229	0.720	0.09	
6.719	124675	102374	0.821	0.29	
6.757	149293	131422	0.880	0.34	
6.802	200872	173295	0.863	0.46	
6.839	109444	76649	0.700	0.25	
6.910	20285	17919	0.883	0.04	
6.941	93145	78814	0.846	0.21	
7.003	339764	312126	0.919	0.79	8 Aroclor 1260
7.036	33001	38908	1.179	0.07	
7.120	32309	17368	0.538	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.250	222235	187630	0.844	0.51	8 Aroclor 1260
7.281	97547	68035	0.697	0.22	
7.338	32871	17310	0.527	0.07	
7.390	127794	119907	0.938	0.29	
7.442	186926	142108	0.760	0.43	8 Aroclor 1260
7.548	22220	16976	0.764	0.05	
7.626	21242	16383	0.771	0.04	
7.662	15907	19247	1.210	0.03	
7.695	41910	38716	0.924	0.09	
7.726	56601	36379	0.643	0.13	
7.795	30732	20699	0.674	0.07	
7.899	126209	100311	0.795	0.29	8 Aroclor 1260
8.048	30210	23393	0.774	0.07	
8.274	102668	91438	0.891	0.23	
8.370	11580	8622	0.745	0.02	
8.570	2013195	1696357	0.843	4.68	$ 12 Decachlorobiphenyl
8.940	13702	10705	0.781	0.03	
9.164	30759	23089	0.751	0.07	
	42983757	36232636		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518006.D
Lab Smp Id: 40158010001 Client Smp ID: ND3-170829-01-PKSD-
Inj Date : 25-APR-2018 14:41
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010001 x6,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 26-Apr-2018 08:09 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 6
Dil Factor: 6.00000
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	6.000	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			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.410	2.407	0.003	173638	0.31695	950	0.00- 20.00	0.00	BA
2.683	2.688	-0.005	19740	0.01427	43	0.00- 20.00	0.00	BA
2.789	2.789	0.000	25194	0.02278	68	0.00- 20.00	0.00	BA
2.849	2.851	-0.002	79491	0.02442	74	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					280			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	1977637	0.01604	48		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	2031893	0.86723	2600	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1416231	0.34124	1000	0.00- 20.00	69.70	BA
4.811	4.812	-0.001	850859	0.41913	1300	0.00- 20.00	41.88	BA
4.878	4.879	-0.001	2255543	0.44776	1300	0.00- 20.00	111.01	BA
5.037	5.038	-0.001	810088	0.22574	680	0.00- 20.00	39.87	BA
Average of Peak Concentrations =					1400			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1410707	0.26946	810	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	908269	0.21117	640	0.00- 20.00	64.38	BA
5.509	5.510	-0.001	1716848	0.22107	660	0.00- 20.00	121.70	BA
6.023	6.027	-0.004	806542	0.16563	500	0.00- 20.00	57.17	BA
6.300	6.299	0.001	1704622	0.26196	790	0.00- 20.00	120.83	BA
Average of Peak Concentrations =					680			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.002	7.006	-0.004	339764	0.03393	100	0.00- 20.00	21.84	CO
7.249	7.251	-0.002	222235	0.04649	140	0.00- 20.00	13.04	CO
7.441	7.443	-0.002	186925	0.06412	190	0.00- 20.00	10.97	CO
7.898	7.901	-0.003	126208	0.04783	140	0.00- 20.00	7.40	CO
Average of Peak Concentrations =					140			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	2013195	0.01838	55			

QC Flag Legend

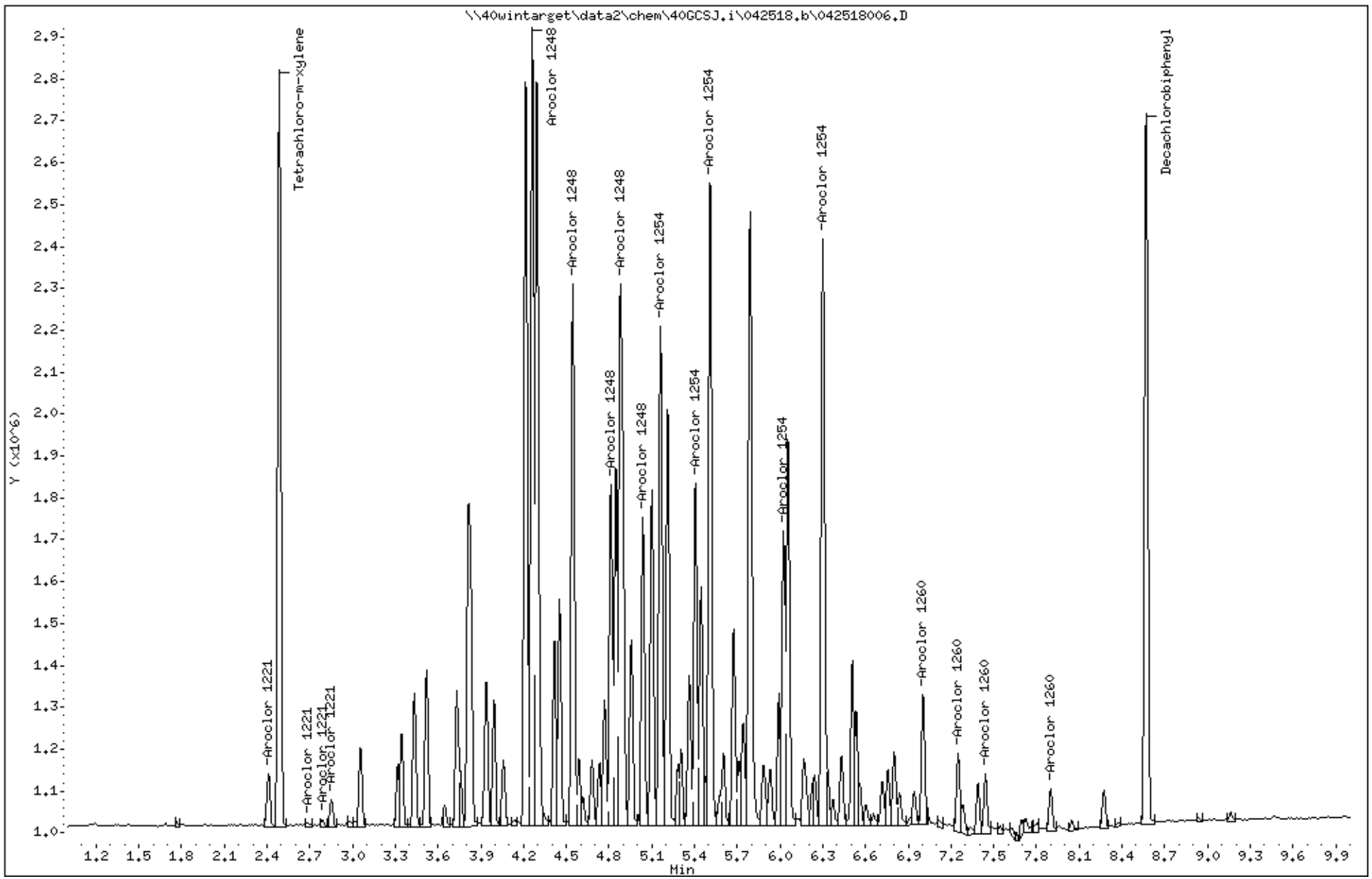
M - Compound response manually integrated.

Review Codes Legend

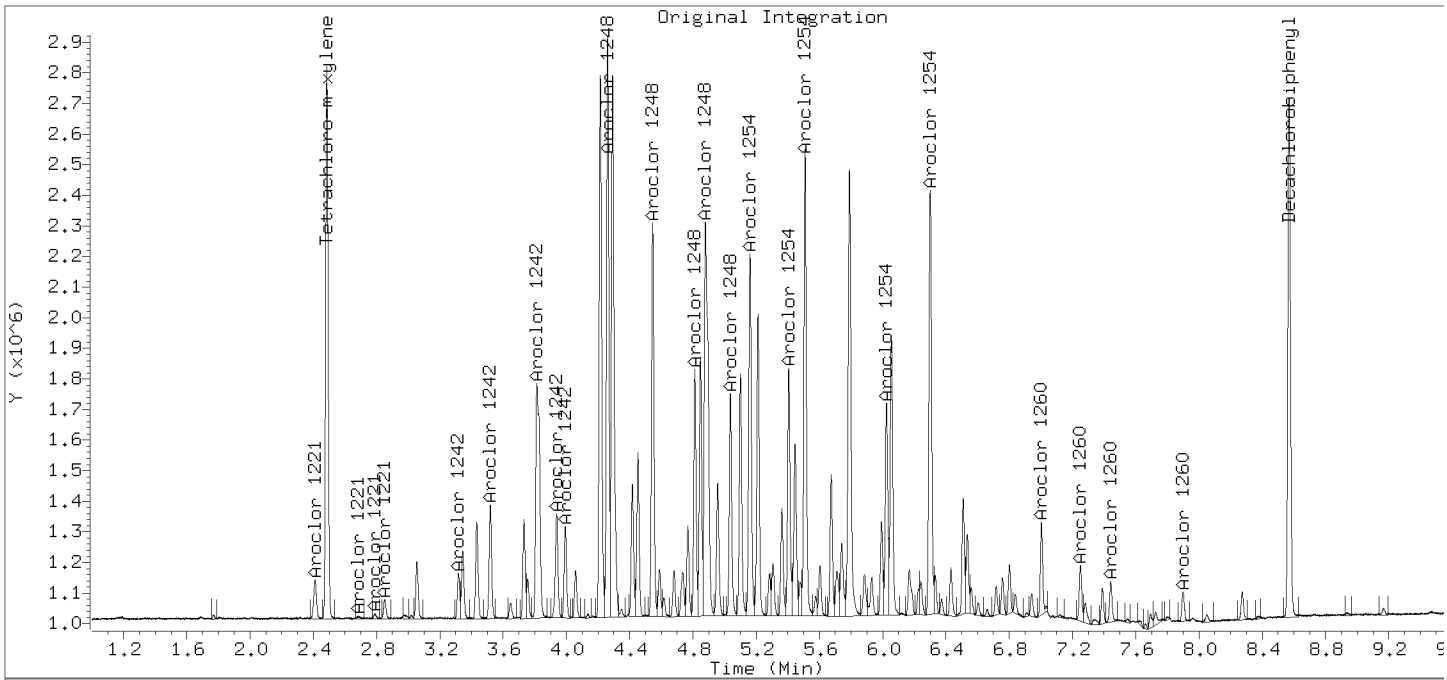
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

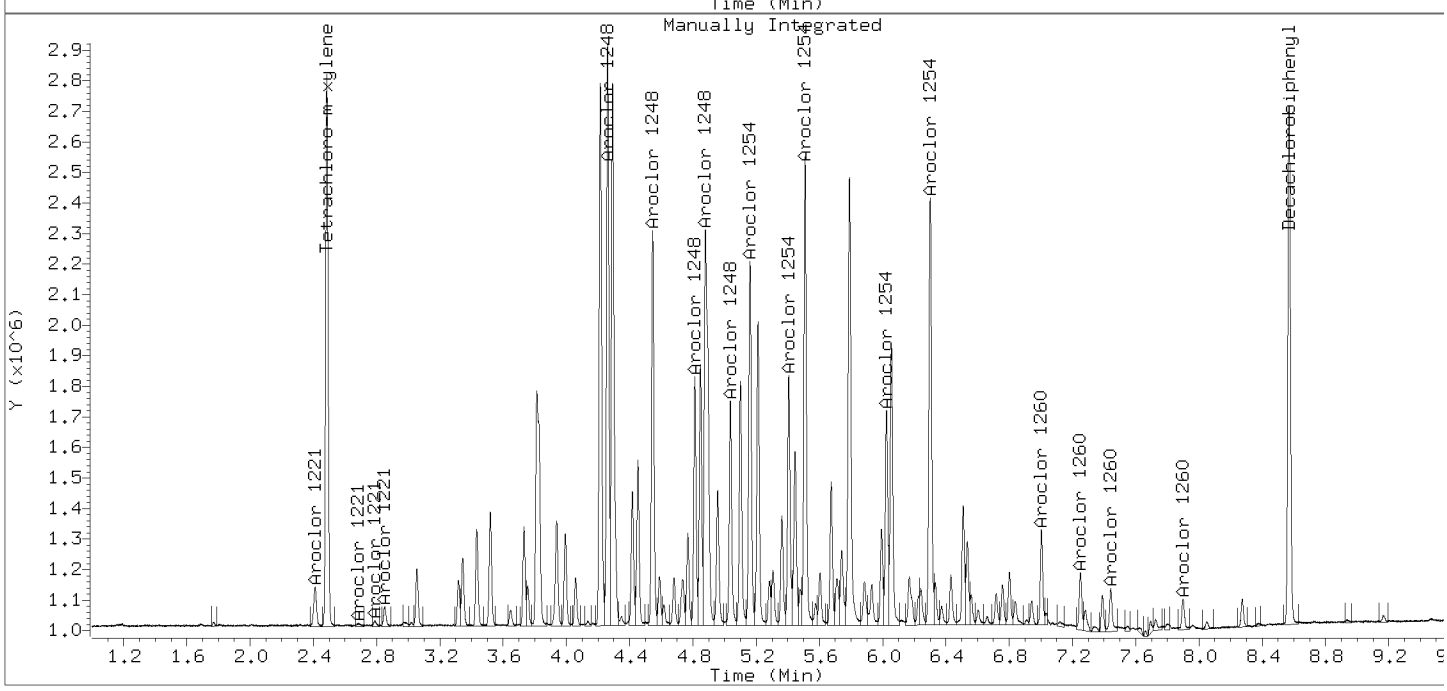
Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518006.D
Date : 25-APR-2018 14:41
Client ID: ND3-170829-01-PKSD-
Sample Info: 40158010001 x6,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b/042518006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 25-APR-2018 14:41 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	153232	0	
Aroclor 1016	153232	0	
Aroclor 1016	153232	0	
Aroclor 1016	153232	0	
Aroclor 1016	153232	0	
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1221	0	0	BA
Aroclor 1232	73713	0	
Aroclor 1232	73713	0	
Aroclor 1232	73713	0	
Aroclor 1232	73713	0	

Aroclor 1232	73713	0	
Aroclor 1242	153232	0	
Aroclor 1242	153232	0	
Aroclor 1242	153232	0	
Aroclor 1242	153232	0	
Aroclor 1242	153232	0	
Aroclor 1248	2018821	2031893	BA
Aroclor 1248	2018821	2031893	BA
Aroclor 1248	2018821	2031893	BA
Aroclor 1248	2018821	2031893	BA
Aroclor 1248	2018821	2031893	BA
Aroclor 1254	1381286	1410707	BA
Aroclor 1254	1381286	1410707	BA
Aroclor 1254	1381286	1410707	BA
Aroclor 1254	1381286	1410707	BA
Aroclor 1254	1381286	1410707	BA
Aroclor 1260	1666980	0	CO
Aroclor 1260	1666980	0	CO
Aroclor 1260	1666980	0	CO
Aroclor 1260	1666980	0	CO
Aroclor 1260	1666980	0	CO
Tetrachloro-m-xylene	1968893	1977637	BA
Decachlorobiphenyl	2013195	2013195	

==========

SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010002
Date Analyzed: 04/24/2018 15:33
Lab File ID: 042418.B\042418013.D
Initial wt/vol: 9.9971 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)	27.9	J
11097-69-1	PCB-1254 (Aroclor 1254)	22.5	J
11096-82-5	PCB-1260 (Aroclor 1260)	21.5	J
1336-36-3	PCB, Total	71.9	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418013.D
Lab Smp Id: 40158010002 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 15:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010002,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.997	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.030	21092	11006	0.522	0.05		
1.163	36699	29449	0.802	0.10		
1.332	12145	10324	0.850	0.03		
1.426	19848	15662	0.789	0.05		
1.687	26329	19229	0.730	0.07		
1.772	28255	25088	0.888	0.07		
1.799	22010	20765	0.943	0.06		
1.831	19920	15848	0.796	0.05		
1.892	10019	9459	0.944	0.02		
2.065	12825	10648	0.830	0.03		
2.126	31818	19416	0.610	0.08		
2.172	25156	26389	1.049	0.06		
2.205	37659	20768	0.551	0.10		
2.261	12268	11182	0.911	0.03		
2.295	35760	32466	0.908	0.09		
2.317	47597	42743	0.898	0.13		
2.359	17759	13080	0.737	0.04		
2.410	92758	72490	0.781	0.25		
2.447	15868	14935	0.941	0.04		
2.486	12110995	11179764	0.923	33.95	$ 2 Tetrachloro-m-xylene	
2.551	23536	15438	0.656	0.06		
2.616	19430	12273	0.632	0.05		
2.651	10169	9711	0.955	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.787	20620	19826	0.962	0.05	
2.859	15845	11494	0.725	0.04	
2.977	54093	50703	0.937	0.14	
2.989	66918	59207	0.885	0.18	
3.020	39100	38449	0.983	0.10	
3.059	20770	10924	0.526	0.05	
3.317	27953	25262	0.904	0.07	3 Aroclor 1242
3.344	20098	14783	0.736	0.05	
3.520	16930	11968	0.707	0.04	3 Aroclor 1242
3.735	13717	13883	1.012	0.03	
3.827	204703	137447	0.671	0.56	3 Aroclor 1242
3.929	35144	22363	0.636	0.09	3 Aroclor 1242
3.993	46165	35016	0.758	0.12	3 Aroclor 1242
4.057	22535	16982	0.754	0.06	
4.215	159254	138202	0.868	0.43	
4.262	151920	142537	0.938	0.41	6 Aroclor 1248
4.292	128462	87657	0.682	0.35	
4.348	14158	10925	0.772	0.03	
4.417	81492	73061	0.897	0.22	
4.452	70457	55553	0.788	0.19	
4.502	63190	45611	0.722	0.17	
4.545	159653	132542	0.830	0.43	6 Aroclor 1248
4.683	16628	13869	0.834	0.04	
4.736	27232	17716	0.651	0.07	
4.769	179020	165522	0.925	0.49	
4.814	132918	119650	0.900	0.36	6 Aroclor 1248
4.847	170233	157472	0.925	0.46	
4.879	388939	228958	0.589	1.06	6 Aroclor 1248
4.956	49888	39885	0.799	0.13	
5.002	29650	24445	0.824	0.08	
5.037	117519	107928	0.918	0.32	6 Aroclor 1248
5.058	38250	36386	0.951	0.10	
5.101	184924	122644	0.663	0.50	
5.163	307173	276594	0.900	0.84	7 Aroclor 1254
5.213	278244	240030	0.863	0.76	
5.256	20066	18769	0.935	0.05	
5.284	35099	33619	0.958	0.09	
5.313	122397	114388	0.935	0.33	
5.361	95703	72930	0.762	0.26	
5.407	140328	120113	0.856	0.38	7 Aroclor 1254
5.451	1086545	1094307	1.007	2.98	
5.509	331385	280102	0.845	0.91	7 Aroclor 1254
5.576	38674	26366	0.682	0.10	
5.603	83861	69283	0.826	0.23	
5.675	143656	122710	0.854	0.39	
5.710	73154	49393	0.675	0.20	
5.739	82556	62483	0.757	0.22	
5.789	575883	478846	0.831	1.58	
5.822	131062	123164	0.940	0.36	
5.839	131859	133194	1.010	0.36	
5.899	65345	53003	0.811	0.17	
5.929	30745	27019	0.879	0.08	
5.993	156958	143752	0.916	0.43	
6.024	223531	195463	0.874	0.61	7 Aroclor 1254
6.055	547328	476550	0.871	1.50	
6.121	27535	20897	0.759	0.07	
6.169	172185	80782	0.469	0.47	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.242	116848	65985	0.565	0.32	
6.299	661245	571492	0.864	1.81	8 Aroclor 1260
6.332	54286	61154	1.127	0.14	
6.374	27070	20974	0.775	0.07	
6.431	84205	49442	0.587	0.23	
6.509	264344	233833	0.885	0.72	
6.535	124988	118981	0.952	0.34	
6.560	107484	89609	0.834	0.29	
6.605	17956	14515	0.808	0.04	
6.659	32799	27810	0.848	0.09	
6.718	149509	117215	0.784	0.41	
6.757	144967	116496	0.804	0.39	
6.800	121874	99503	0.816	0.33	
6.839	46408	38368	0.827	0.12	
6.908	11525	10676	0.926	0.03	
6.942	165193	134124	0.812	0.45	
7.003	295074	254175	0.861	0.81	8 Aroclor 1260
7.032	22240	25637	1.153	0.06	
7.053	17158	21022	1.225	0.04	
7.101	119163	47791	0.401	0.32	
7.181	34873	15043	0.431	0.09	
7.249	164609	143867	0.874	0.45	8 Aroclor 1260
7.282	112650	68056	0.604	0.30	
7.338	53795	31244	0.581	0.14	
7.391	69000	70106	1.016	0.18	
7.443	138360	99248	0.717	0.38	8 Aroclor 1260
7.484	69718	48081	0.690	0.19	
7.526	80406	47679	0.593	0.22	
7.578	20727	16032	0.773	0.05	
7.624	32365	21300	0.658	0.08	
7.665	16757	20999	1.253	0.04	
7.699	21635	20666	0.955	0.05	
7.727	55906	37588	0.672	0.15	
7.763	51546	42859	0.831	0.14	
7.811	61480	30762	0.500	0.16	
7.861	6027	10124	1.680	0.01	
7.899	75928	55968	0.737	0.20	8 Aroclor 1260
7.955	82327	64541	0.784	0.22	
8.049	69373	54207	0.781	0.19	
8.115	9450	8795	0.931	0.02	
8.273	100022	95042	0.950	0.27	
8.318	20396	19589	0.960	0.05	
8.374	193622	139100	0.718	0.53	
8.448	55120	49895	0.905	0.15	
8.480	62299	51215	0.822	0.17	
8.571	10366771	8849766	0.854	28.49	$ 12 Decachlorobiphenyl
8.639	91029	46522	0.511	0.25	
8.720	55355	30728	0.555	0.15	
9.168	1211493	1062990	0.877	3.32	
9.209	20749	17463	0.842	0.05	
9.477	24022	18415	0.767	0.06	
9.960	9653	6485	0.672	0.02	
	36381364	31553937		100.000	

Total unknown % area = 28

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418013.D
Lab Smp Id: 40158010002 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 15:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010002,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.997	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	12110994	0.09823	49			
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	151920	0.06484	32	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	159652	0.03847	19	0.00- 20.00	105.09	BA
4.813	4.812	0.001	132917	0.06547	33	0.00- 20.00	87.49	BA
4.878	4.879	-0.001	388939	0.07721	39	0.00- 20.00	256.02	BA
5.036	5.038	-0.002	117519	0.03275	16	0.00- 20.00	77.36	BA
		Average of Peak Concentrations =			28			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	307172	0.05867	29	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	140328	0.03263	16	0.00- 20.00	45.68	BA
5.509	5.510	-0.001	331385	0.04267	21	0.00- 20.00	107.88	BA
6.024	6.027	-0.003	223531	0.04590	23	0.00- 20.00	72.77	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			22			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	661245	0.07461	37	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	295073	0.02946	15	0.00- 20.00	44.62	BA
7.248	7.251	-0.003	164609	0.03444	17	0.00- 20.00	24.89	BA
7.443	7.443	0.000	138360	0.04746	24	0.00- 20.00	20.92	BA
7.899	7.901	-0.002	75927	0.02877	14	0.00- 20.00	11.48	BA
		Average of Peak Concentrations =			21			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10366770	0.09462	47			

QC Flag Legend

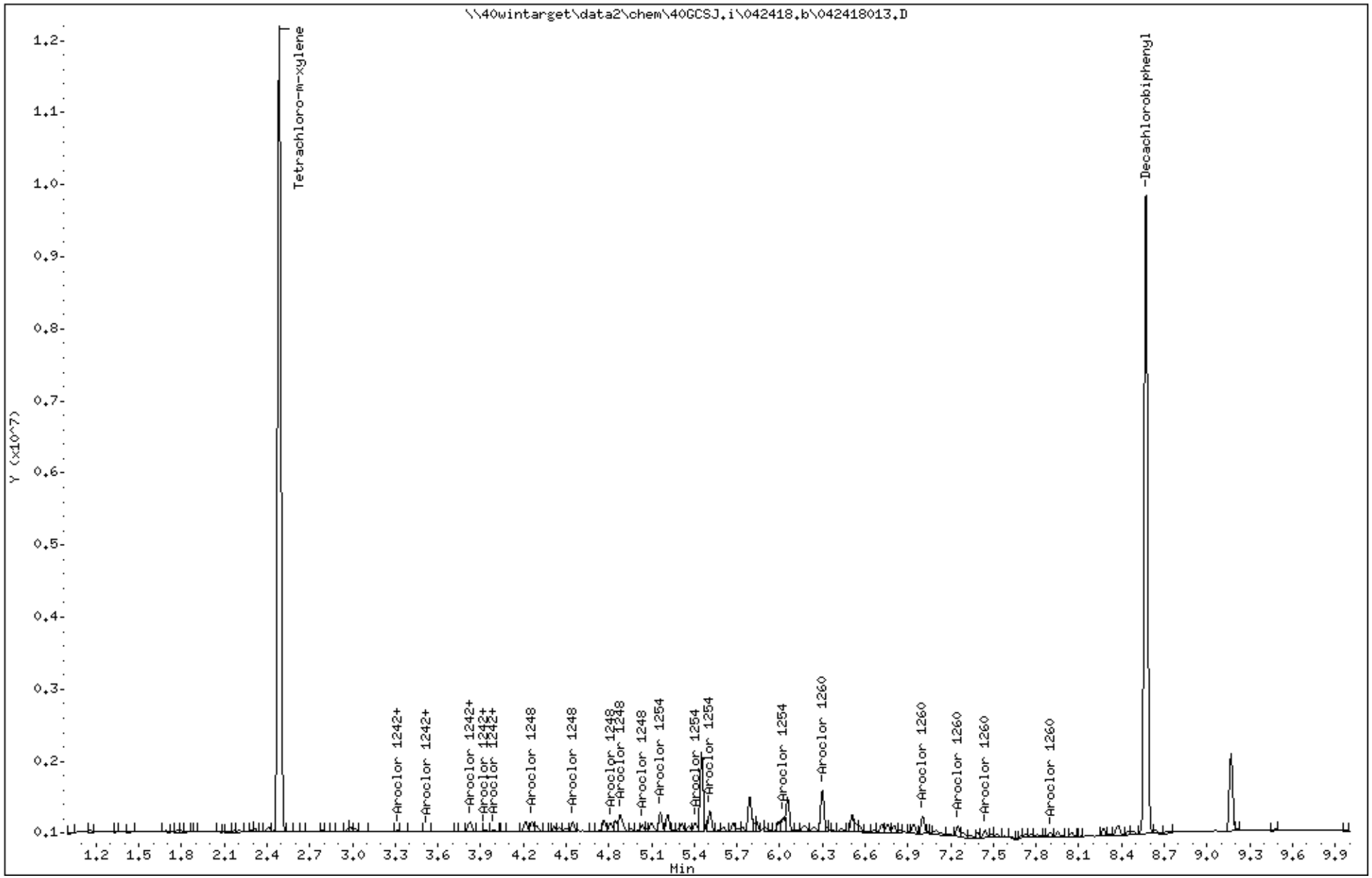
M - Compound response manually integrated.

Review Codes Legend

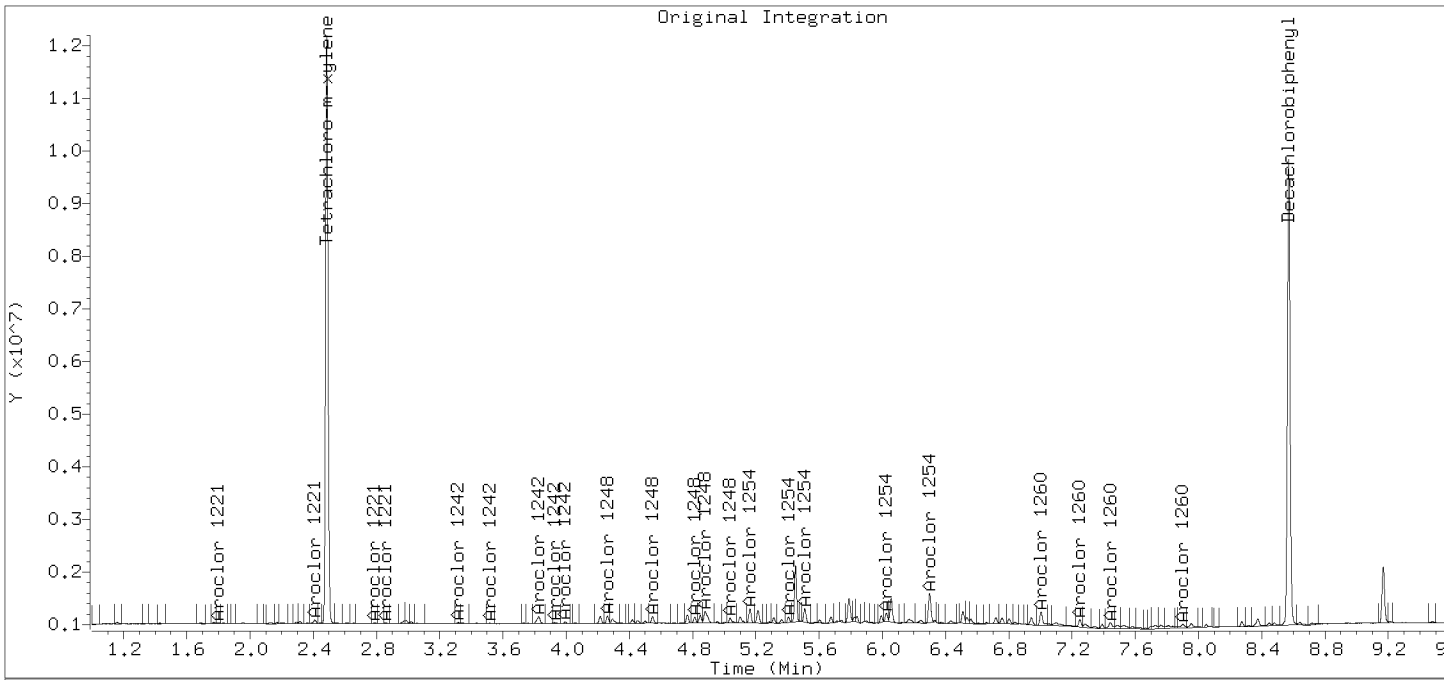
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

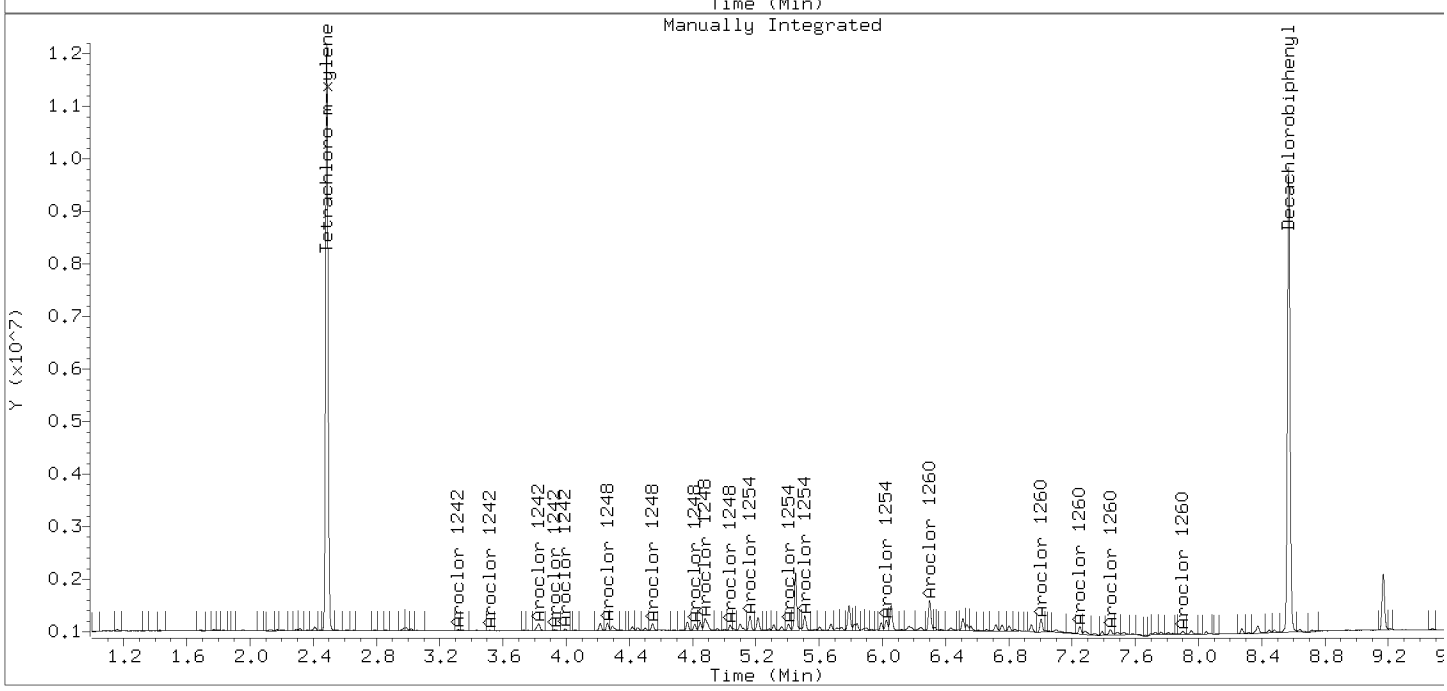
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418013.D
Date : 24-APR-2018 15:33
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010002,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 15:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010002





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	22010	0	
Aroclor 1221	22010	0	
Aroclor 1221	22010	0	
Aroclor 1221	22010	0	
Aroclor 1221	22010	0	
Aroclor 1232	15844	0	
Aroclor 1232	15844	0	
Aroclor 1232	15844	0	
Aroclor 1232	15844	0	

Aroclor 1232	15844	0	
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	145291	151920	BA
Aroclor 1248	145291	151920	BA
Aroclor 1248	145291	151920	BA
Aroclor 1248	145291	151920	BA
Aroclor 1248	145291	151920	BA
Aroclor 1254	284477	307172	BA
Aroclor 1254	284477	307172	BA
Aroclor 1254	284477	307172	BA
Aroclor 1254	284477	307172	BA
Aroclor 1254	284477	307172	BA
Aroclor 1260	637088	661245	BA
Aroclor 1260	637088	661245	BA
Aroclor 1260	637088	661245	BA
Aroclor 1260	637088	661245	BA
Aroclor 1260	637088	661245	BA
Tetrachloro-m-xylene	12110994	12110994	
Decachlorobiphenyl	10366770	10366770	

==========

SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010003
Date Analyzed: 04/24/2018 15:49
Lab File ID: 042418.B\042418014.D
Initial wt/vol: 10.0166 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)	23.1	J
11097-69-1	PCB-1254 (Aroclor 1254)	18.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	21.3	J
1336-36-3	PCB, Total	63.3	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418014.D
Lab Smp Id: 40158010003 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 15:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010003,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.069	14195	10294	0.725	0.04		
1.103	9490	6822	0.719	0.02		
1.162	27011	21470	0.795	0.08		
1.336	15964	10993	0.689	0.04		
1.686	19993	15717	0.786	0.05		
1.772	29391	28500	0.970	0.08		
1.799	17038	14079	0.826	0.05		
1.829	10110	11117	1.100	0.03		
2.065	10675	8090	0.758	0.03		
2.123	13774	9763	0.709	0.04		
2.173	12771	15213	1.191	0.03		
2.293	21903	21991	1.004	0.06		
2.317	32470	29570	0.911	0.09		
2.410	63871	56494	0.884	0.19		
2.485	11419978	10775567	0.944	34.79	$ 2 Tetrachloro-m-xylene	
2.786	22994	18663	0.812	0.06		
2.861	16407	12895	0.786	0.04	4 Aroclor 1232	BA
2.978	92700	39480	0.426	0.27		
3.019	29842	29664	0.994	0.08		
3.162	9842	8252	0.838	0.02		
3.318	25322	21344	0.843	0.07	3 Aroclor 1242	BA
3.342	16396	16141	0.984	0.04		
3.437	16451	9857	0.599	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.519	10294	10024	0.974	0.03	3 Aroclor 1242
3.729	21443	12408	0.579	0.06	
3.826	167891	112018	0.667	0.50	3 Aroclor 1242
3.932	23924	18516	0.774	0.07	3 Aroclor 1242
3.995	35830	30300	0.846	0.10	3 Aroclor 1242
4.055	24687	15782	0.639	0.07	
4.215	140147	107768	0.769	0.41	
4.260	124899	114671	0.918	0.37	6 Aroclor 1248
4.293	104739	70931	0.677	0.31	
4.417	69803	56195	0.805	0.20	
4.453	60807	46532	0.765	0.18	
4.504	58701	37367	0.637	0.17	
4.545	138766	107314	0.773	0.41	6 Aroclor 1248
4.737	24729	19239	0.778	0.07	
4.766	151163	137390	0.909	0.45	
4.812	112012	99556	0.889	0.33	6 Aroclor 1248
4.847	143824	133829	0.931	0.43	
4.877	307733	190090	0.618	0.92	6 Aroclor 1248
4.956	48274	31556	0.654	0.14	
4.999	24747	19102	0.772	0.07	
5.036	101014	89373	0.885	0.30	6 Aroclor 1248
5.060	22568	27656	1.225	0.06	
5.100	152669	96579	0.633	0.45	
5.161	265534	227725	0.858	0.79	7 Aroclor 1254
5.212	239845	204512	0.853	0.71	
5.283	33510	31937	0.953	0.10	
5.313	118418	109926	0.928	0.35	
5.363	89174	63066	0.707	0.26	
5.406	116528	104180	0.894	0.34	7 Aroclor 1254
5.450	1004358	958636	0.954	3.00	
5.508	275586	228344	0.829	0.82	7 Aroclor 1254
5.575	35555	23741	0.668	0.10	
5.602	63640	49317	0.775	0.19	
5.675	121929	102244	0.839	0.36	
5.709	49376	35526	0.720	0.14	
5.739	81431	55787	0.685	0.24	
5.790	484130	396030	0.818	1.44	
5.824	109044	106431	0.976	0.32	
5.837	123759	114963	0.929	0.37	
5.900	85206	49403	0.580	0.25	
5.928	26745	21891	0.819	0.08	
5.993	136635	125961	0.922	0.40	
6.025	186050	162381	0.873	0.55	7 Aroclor 1254
6.054	502632	434770	0.865	1.50	
6.117	19256	16410	0.852	0.05	
6.169	137579	71981	0.523	0.41	
6.240	99139	56781	0.573	0.29	
6.298	624280	539641	0.864	1.86	8 Aroclor 1260
6.330	65058	57053	0.877	0.19	
6.374	28515	20084	0.704	0.08	
6.433	70825	43529	0.615	0.21	
6.480	12144	13692	1.127	0.03	
6.510	234371	205488	0.877	0.70	
6.535	125170	119877	0.958	0.37	
6.559	92806	77486	0.835	0.27	
6.606	19949	14839	0.744	0.05	
6.660	29345	24715	0.842	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.716	108214	81046	0.749	0.32	
6.756	119581	92770	0.776	0.35	
6.800	114613	91685	0.800	0.34	
6.838	60658	36980	0.610	0.18	
6.908	14541	12577	0.865	0.04	
6.941	148704	122321	0.823	0.44	
7.004	268711	229838	0.855	0.80	8 Aroclor 1260
7.097	64200	37263	0.580	0.19	
7.250	155956	136964	0.878	0.46	8 Aroclor 1260
7.281	106635	62835	0.589	0.31	
7.341	53920	32338	0.600	0.16	
7.390	66216	65349	0.987	0.19	
7.441	134857	96821	0.718	0.40	8 Aroclor 1260
7.484	61220	35905	0.586	0.18	
7.526	71906	34660	0.482	0.21	
7.579	24638	19680	0.799	0.07	
7.626	30012	22099	0.736	0.08	
7.662	21617	24784	1.146	0.06	
7.694	34634	33532	0.968	0.10	
7.728	63245	41247	0.652	0.18	
7.763	52984	40547	0.765	0.15	
7.809	72598	33754	0.465	0.21	
7.872	21337	18585	0.871	0.06	
7.900	99273	60686	0.611	0.29	8 Aroclor 1260
7.955	87289	56269	0.645	0.26	
8.048	65048	50414	0.775	0.19	
8.275	103723	89053	0.859	0.31	
8.317	16240	16097	0.991	0.04	
8.376	139082	101081	0.727	0.41	
8.447	43475	39476	0.908	0.13	
8.482	54105	46790	0.865	0.16	
8.570	9892693	8454752	0.855	29.62	$ 12 Decachlorobiphenyl
8.641	54718	32674	0.597	0.16	
8.721	38692	25930	0.670	0.11	
8.940	17086	11235	0.658	0.05	
9.168	1164998	1035990	0.889	3.48	
9.478	23651	18288	0.773	0.07	
	33397846	29086834		100.000	

Total unknown % area = 26

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418014.D
Lab Smp Id: 40158010003 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 15:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010003,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	11419978	0.09262	46			
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA
4 Aroclor 1232					CAS #: 1114-16-5			
Qualifier signal(s) failed ratio test.								BA

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	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	124898	0.05331	27	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	138765	0.03343	17	0.00- 20.00	111.10	CO
4.812	4.812	0.000	112011	0.05518	28	0.00- 20.00	89.68	CO
4.877	4.879	-0.002	307733	0.06109	30	0.00- 20.00	246.39	CO
5.036	5.038	-0.002	101013	0.02815	14	0.00- 20.00	80.88	CO
		Average of Peak Concentrations =			23			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	265534	0.05072	25	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	116528	0.02709	14	0.00- 20.00	43.88	BA
5.508	5.510	-0.002	275585	0.03549	18	0.00- 20.00	103.79	BA
6.024	6.027	-0.003	186050	0.03821	19	0.00- 20.00	70.07	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			19			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	624279	0.07044	35	0.00- 20.00	100.00(M)	BA
7.004	7.006	-0.002	268711	0.02683	13	0.00- 20.00	43.04	BA
7.250	7.251	-0.001	155955	0.03263	16	0.00- 20.00	24.98	BA
7.441	7.443	-0.002	134857	0.04626	23	0.00- 20.00	21.60	BA
7.900	7.901	-0.001	99272	0.03762	19	0.00- 20.00	15.90	BA
		Average of Peak Concentrations =			21			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9892693	0.09029	45			

QC Flag Legend

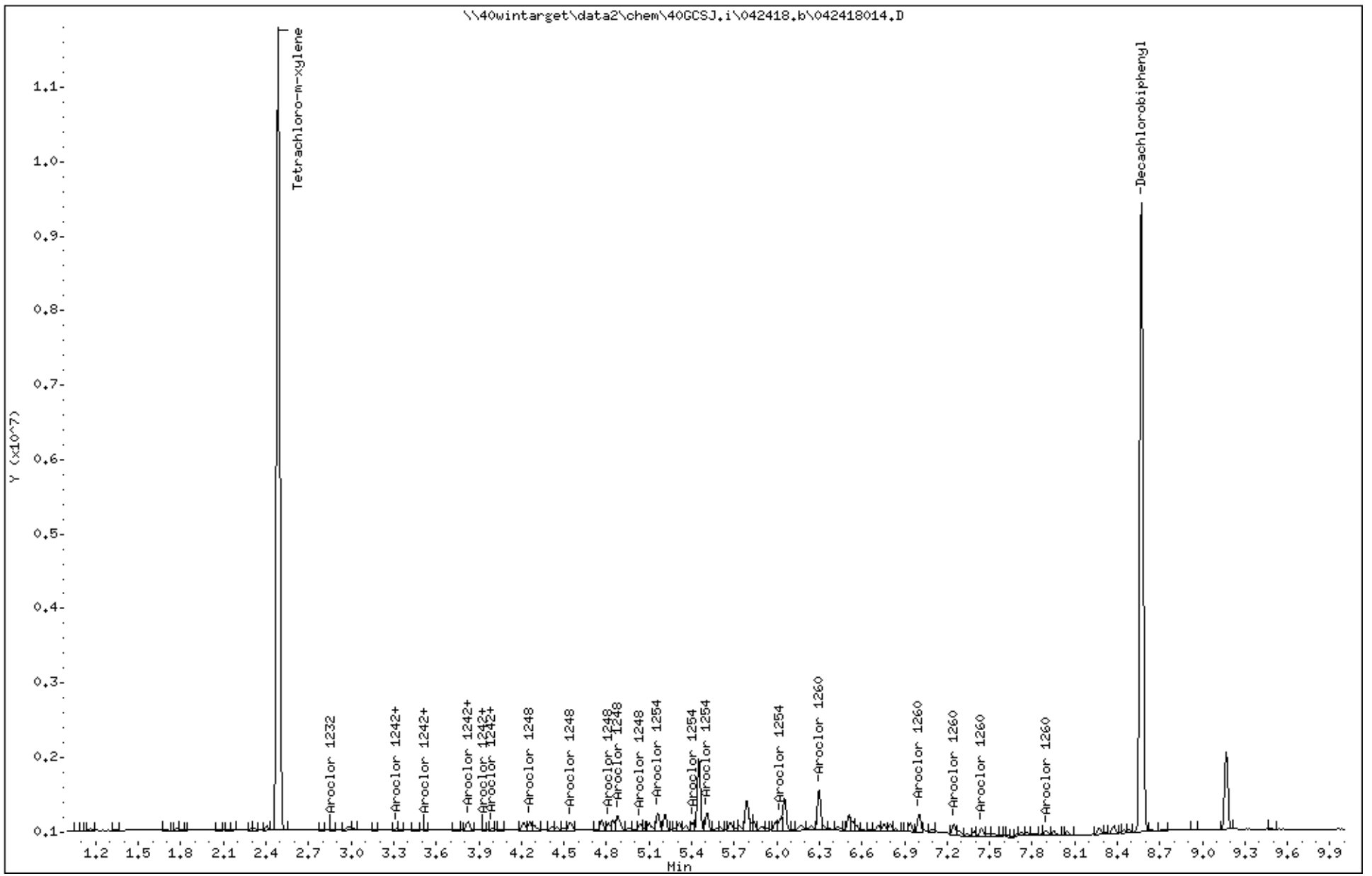
M - Compound response manually integrated.

Review Codes Legend

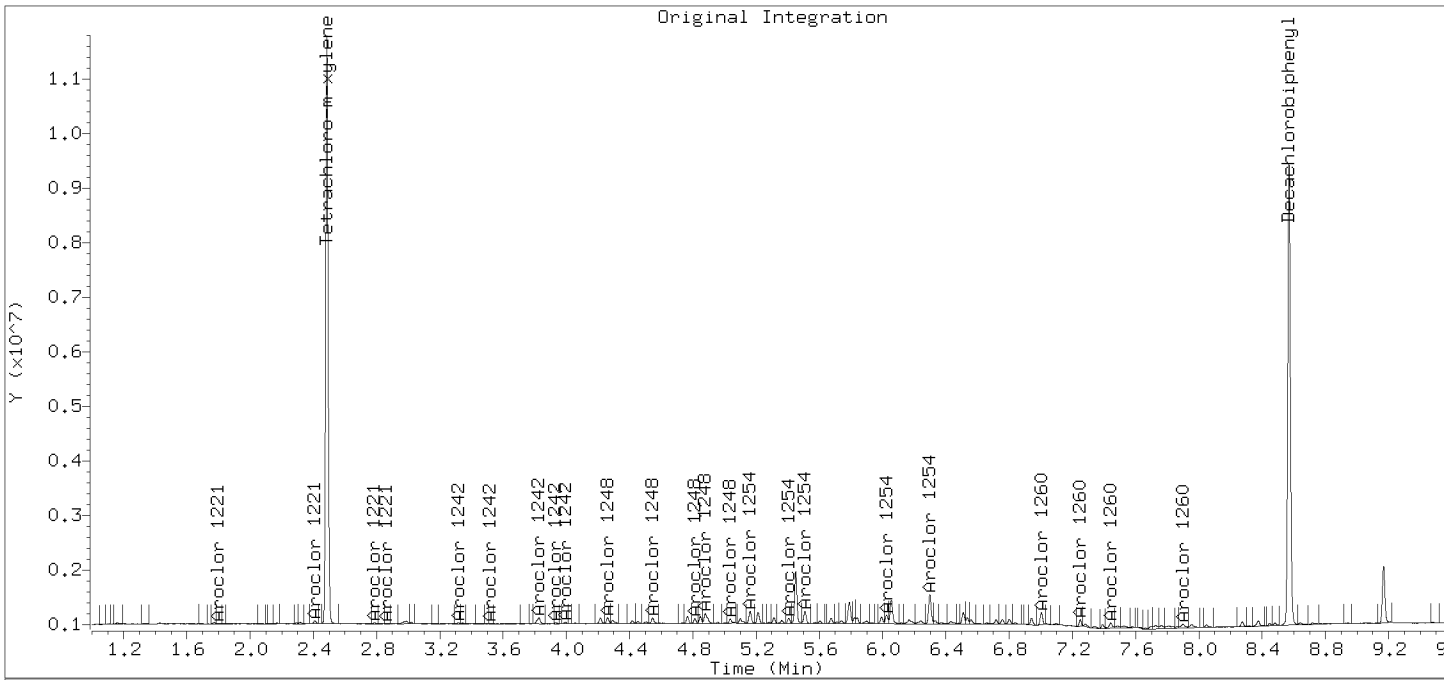
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

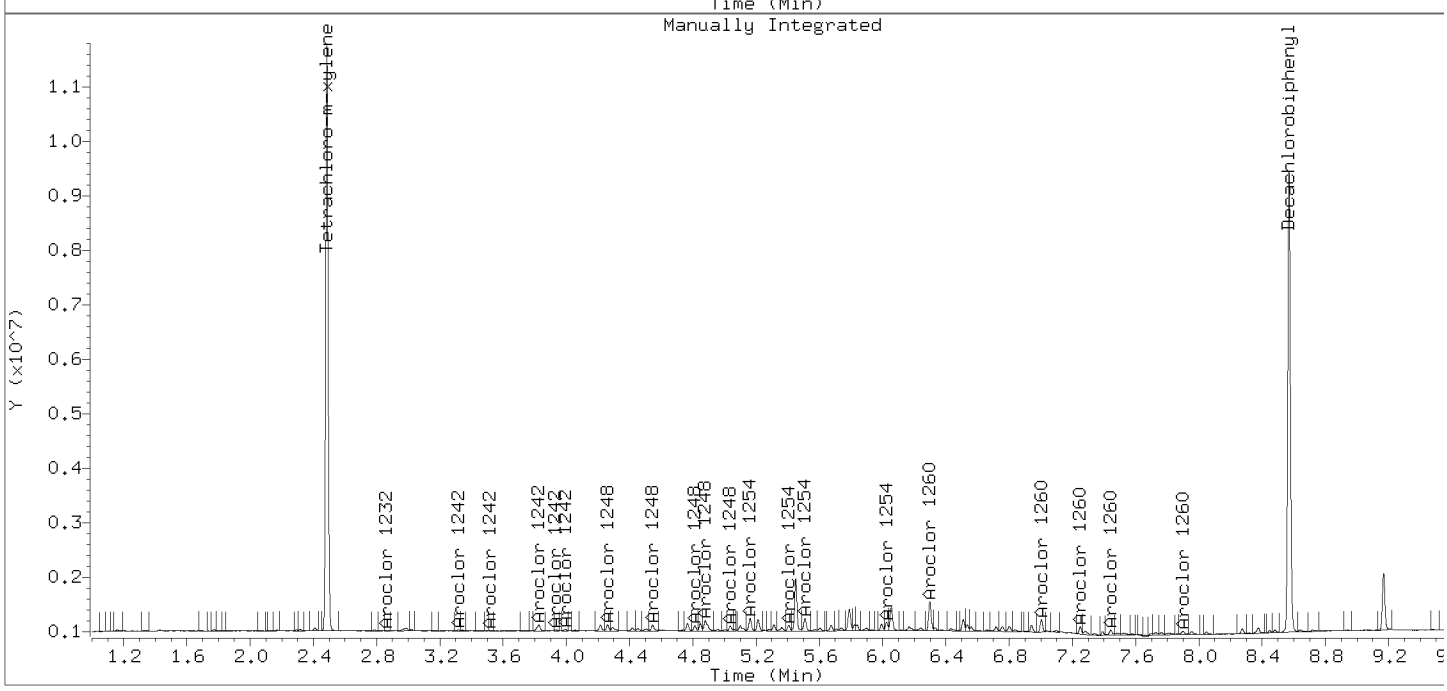
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418014.D
Date : 24-APR-2018 15:49
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010003,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 15:49 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010003





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	17037	0	
Aroclor 1221	17037	0	
Aroclor 1221	17037	0	
Aroclor 1221	17037	0	
Aroclor 1221	17037	0	
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA

Aroclor 1232	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	116764	124898	CO
Aroclor 1248	116764	124898	CO
Aroclor 1248	116764	124898	CO
Aroclor 1248	116764	124898	CO
Aroclor 1248	116764	124898	CO
Aroclor 1254	240982	265534	BA
Aroclor 1254	240982	265534	BA
Aroclor 1254	240982	265534	BA
Aroclor 1254	240982	265534	BA
Aroclor 1254	240982	265534	BA
Aroclor 1260	631725	624279	BA
Aroclor 1260	631725	624279	BA
Aroclor 1260	631725	624279	BA
Aroclor 1260	631725	624279	BA
Aroclor 1260	631725	624279	BA
Tetrachloro-m-xylene	11419978	11419978	
Decachlorobiphenyl	9892693	9892693	

==========

SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010004
Date Analyzed: 04/24/2018 16:04
Lab File ID: 042418.B\042418015.D
Initial wt/vol: 9.9711 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)	17.9	J
11097-69-1	PCB-1254 (Aroclor 1254)	20.6	J
11096-82-5	PCB-1260 (Aroclor 1260)	13.6	J
1336-36-3	PCB, Total	52.1	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418015.D
Lab Smp Id: 40158010004 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 16:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010004,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.971	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.024	13212	10012	0.758	0.04		
1.070	14978	11787	0.787	0.04		
1.104	10925	9450	0.865	0.03		
1.160	17793	18530	1.041	0.05		
1.431	17242	12341	0.716	0.05		
1.494	9754	7932	0.813	0.03		
1.541	17015	9533	0.560	0.05		
1.683	16963	12695	0.748	0.05		
1.773	18749	19657	1.048	0.06		
1.833	13282	12460	0.938	0.04		
1.951	11690	9656	0.826	0.03		
2.130	30669	19720	0.643	0.10		
2.170	28165	27463	0.975	0.09		
2.204	34403	18879	0.549	0.11		
2.255	10978	9390	0.855	0.03		
2.292	33788	32821	0.971	0.11		
2.317	43445	40734	0.938	0.14		
2.360	12694	11543	0.909	0.04		
2.409	61887	51156	0.827	0.20		
2.485	11186818	10320962	0.923	37.74	$ 2 Tetrachloro-m-xylene	
2.610	11904	9828	0.826	0.03		
2.789	21135	17434	0.825	0.07		
2.858	13242	10878	0.821	0.04	4 Aroclor 1232	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.975	102714	51386	0.500	0.34	
3.021	33558	31984	0.953	0.11	
3.318	13778	11890	0.863	0.04	3 Aroclor 1242
3.400	11900	10409	0.875	0.03	
3.514	11222	9881	0.880	0.03	3 Aroclor 1242
3.695	11158	10008	0.897	0.03	
3.826	101534	68889	0.678	0.33	3 Aroclor 1242
3.933	20481	13460	0.657	0.06	3 Aroclor 1242
3.993	34396	26048	0.757	0.11	3 Aroclor 1242
4.050	21695	13934	0.642	0.07	
4.213	106688	80150	0.751	0.35	
4.262	92092	74790	0.812	0.30	6 Aroclor 1248
4.292	78259	51292	0.655	0.25	
4.347	21162	12809	0.605	0.07	
4.415	51717	38674	0.748	0.17	
4.452	42101	33574	0.797	0.13	
4.501	63124	43605	0.691	0.20	
4.546	119272	72263	0.606	0.39	6 Aroclor 1248
4.738	15288	16422	1.074	0.05	
4.766	207074	194237	0.938	0.68	
4.814	84015	66764	0.795	0.27	6 Aroclor 1248
4.847	121250	100481	0.829	0.40	
4.877	251000	128535	0.512	0.83	6 Aroclor 1248
4.954	39748	27644	0.695	0.13	
5.005	24975	16332	0.654	0.08	
5.035	67849	66434	0.979	0.22	6 Aroclor 1248
5.064	39409	29241	0.742	0.13	
5.098	87808	77645	0.884	0.29	
5.121	104018	92869	0.893	0.34	
5.161	266415	234007	0.878	0.88	7 Aroclor 1254
5.212	168825	143878	0.852	0.56	
5.280	20993	21199	1.010	0.06	
5.311	122844	112741	0.918	0.40	
5.362	63380	51860	0.818	0.21	
5.406	109706	95813	0.873	0.36	7 Aroclor 1254
5.450	717118	680502	0.949	2.38	
5.510	239302	196514	0.821	0.79	7 Aroclor 1254
5.570	25658	17326	0.675	0.08	
5.602	63734	45283	0.710	0.21	
5.674	90018	76683	0.852	0.29	
5.705	54620	29600	0.542	0.18	
5.739	49361	39317	0.797	0.16	
5.788	388934	314853	0.810	1.29	
5.823	80914	97689	1.207	0.26	
5.839	181236	164051	0.905	0.60	
5.884	59637	42144	0.707	0.19	
5.925	20545	16182	0.788	0.06	
5.992	84274	75904	0.901	0.27	
6.025	154262	132629	0.860	0.51	7 Aroclor 1254
6.054	358163	310443	0.867	1.18	
6.120	42209	25749	0.610	0.14	
6.168	124213	65445	0.527	0.41	
6.230	25238	27056	1.072	0.08	
6.242	51958	44300	0.853	0.17	
6.298	433057	369209	0.853	1.43	7 Aroclor 1254
6.333	56490	47661	0.844	0.18	
6.376	21687	15359	0.708	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.430	51781	28151	0.544	0.17	
6.491	13220	13691	1.036	0.04	
6.508	166618	160585	0.964	0.55	
6.534	92879	81705	0.880	0.30	
6.558	66524	56383	0.848	0.22	
6.608	16091	13064	0.812	0.05	
6.661	21608	19553	0.905	0.07	
6.716	81134	58802	0.725	0.26	
6.756	84020	60324	0.718	0.27	
6.801	88220	64263	0.728	0.29	
6.840	33379	25167	0.754	0.11	
6.895	7165	7872	1.099	0.02	
6.941	185481	152859	0.824	0.61	
7.003	194722	164345	0.844	0.64	8 Aroclor 1260
7.024	39292	26880	0.684	0.13	
7.091	156121	58985	0.378	0.51	
7.173	37957	17037	0.449	0.12	
7.249	101946	86728	0.851	0.33	8 Aroclor 1260
7.281	92281	49337	0.535	0.30	
7.341	63182	37838	0.599	0.20	
7.391	43385	40458	0.933	0.14	
7.443	114572	63714	0.556	0.38	8 Aroclor 1260
7.487	34903	25359	0.727	0.11	
7.583	21130	17471	0.827	0.07	
7.607	3763	8311	2.209	0.01	
7.626	30582	21350	0.698	0.10	
7.662	19195	23875	1.244	0.06	
7.701	13841	11761	0.850	0.04	
7.727	53584	34904	0.651	0.17	
7.763	34066	23560	0.692	0.11	
7.810	74926	44323	0.592	0.24	
7.880	33809	28636	0.847	0.11	
7.899	75446	39953	0.530	0.25	8 Aroclor 1260
7.956	20822	19523	0.938	0.06	
7.976	31771	22706	0.715	0.10	
8.049	96586	86175	0.892	0.32	
8.274	87186	76938	0.882	0.28	
8.373	49269	31516	0.640	0.16	
8.448	11847	14168	1.196	0.03	
8.482	11040	11299	1.023	0.03	
8.570	9593027	8225229	0.857	31.83	$ 12 Decachlorobiphenyl
8.631	10190	9796	0.961	0.03	
8.720	21412	17969	0.839	0.07	
8.935	10043	8555	0.852	0.03	
9.055	11871	8982	0.757	0.03	
9.166	260319	222432	0.854	0.86	
9.211	12794	10648	0.832	0.04	
9.312	14153	9996	0.706	0.04	
9.479	35096	21575	0.615	0.11	
	30129057	26034659		100.000	

Total unknown % area = 22

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418015.D
Lab Smp Id: 40158010004 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 16:04
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010004,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.971	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11186817	0.09073	45			
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA
4 Aroclor 1232					CAS #: 1114-16-5			
Qualifier signal(s) failed ratio test.								BA

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	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			
4.262	4.261	0.001	92091	0.03931	20	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	119271	0.02874	14	0.00- 20.00	129.51	BA
4.814	4.812	0.002	84015	0.04139	21	0.00- 20.00	91.23	BA
4.877	4.879	-0.002	250999	0.04983	25	0.00- 20.00	272.56	BA
5.035	5.038	-0.003	67849	0.01891	9.5	0.00- 20.00	73.68	BA
Average of Peak Concentrations =					18			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	266415	0.05089	26	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	109705	0.02551	13	0.00- 20.00	41.18	BA
5.509	5.510	-0.001	239301	0.03081	15	0.00- 20.00	89.82	BA
6.025	6.027	-0.002	154261	0.03168	16	0.00- 20.00	57.90	BA
6.298	6.299	-0.001	433056	0.06655	33	0.00- 20.00	162.55	BA
Average of Peak Concentrations =					21			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.003	7.006	-0.003	194722	0.01944	9.8	0.00- 20.00	53.92	CO
7.249	7.251	-0.002	101946	0.02133	11	0.00- 20.00	23.54	CO
7.443	7.443	0.000	114571	0.03930	20	0.00- 20.00	26.46	CO
7.899	7.901	-0.002	75446	0.02859	14	0.00- 20.00	17.42	CO
Average of Peak Concentrations =					14			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9593027	0.08756	44			

QC Flag Legend

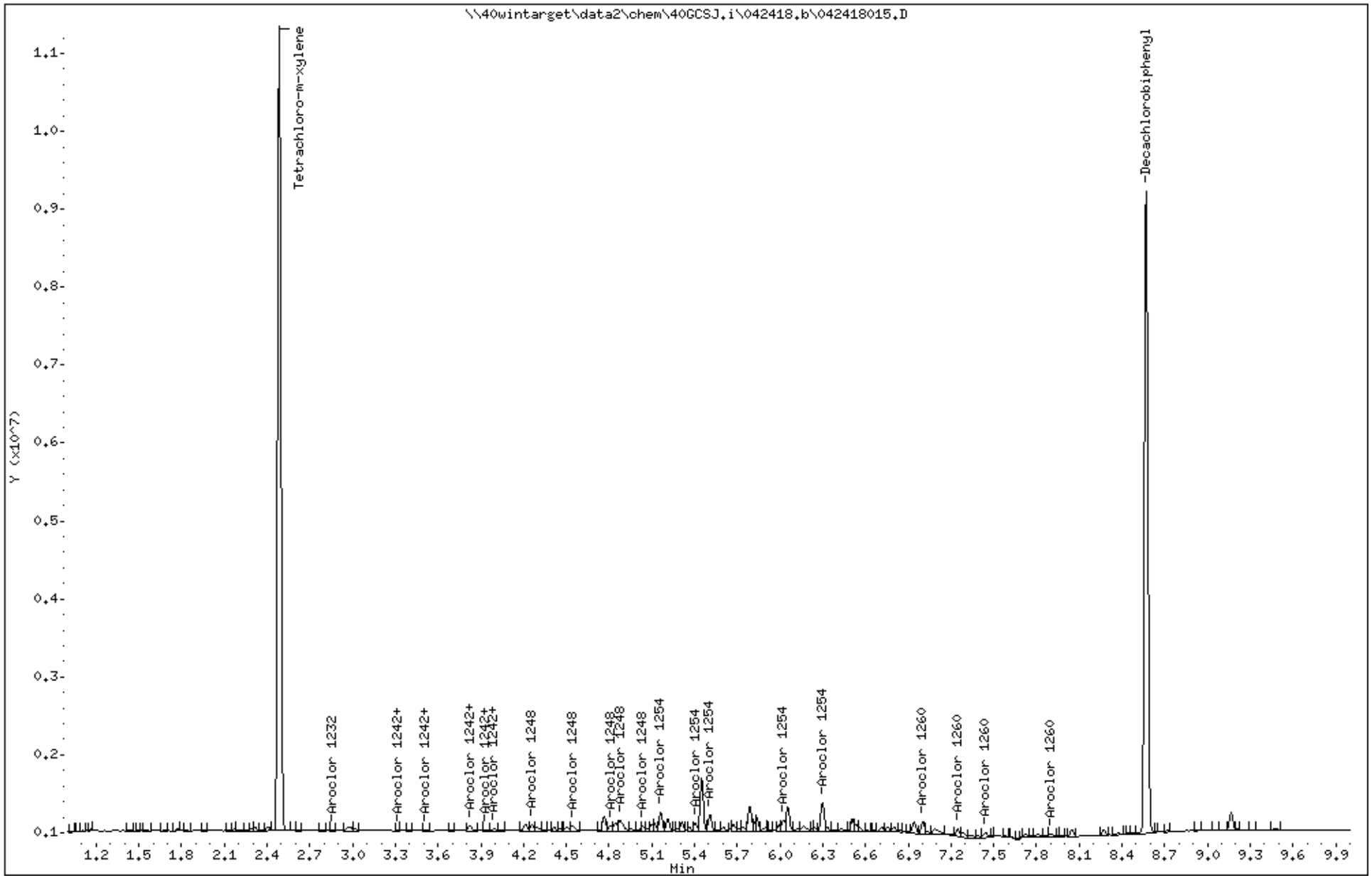
M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
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\042418.b\042418015.D
Date : 24-APR-2018 16:04
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010004,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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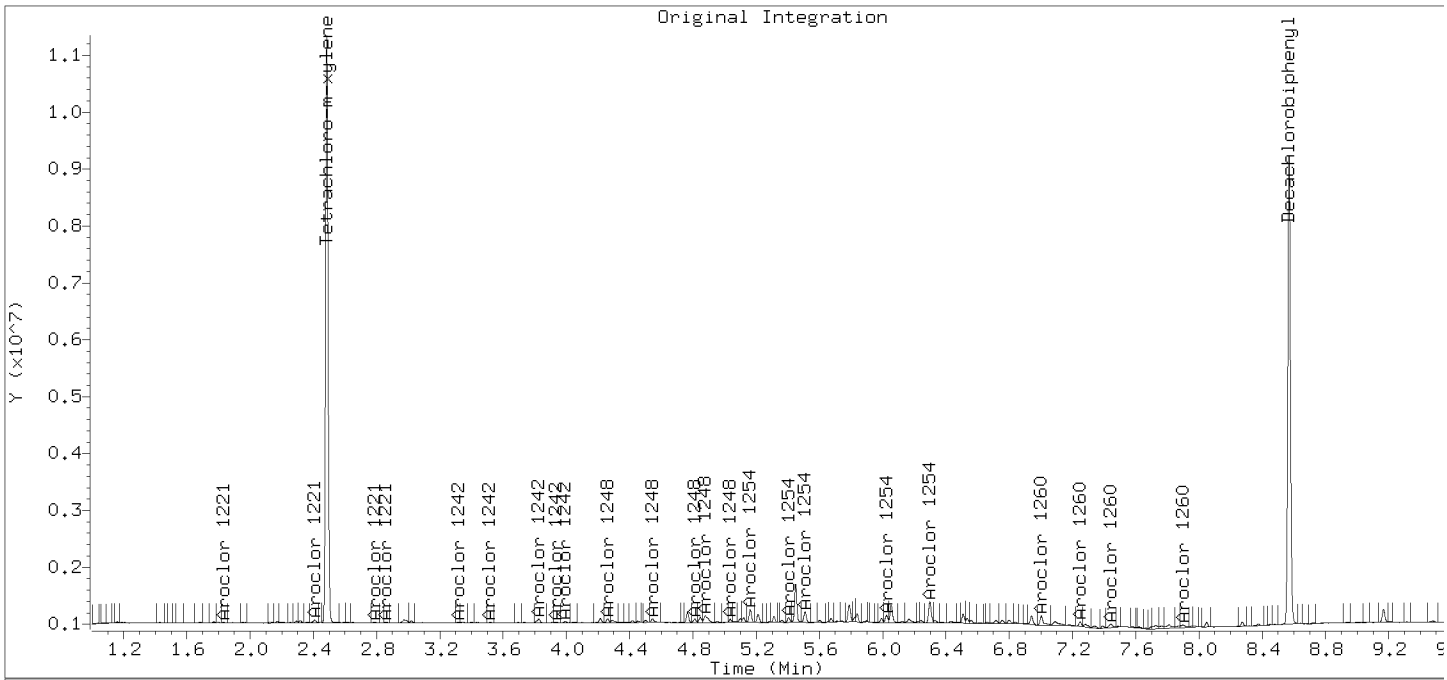
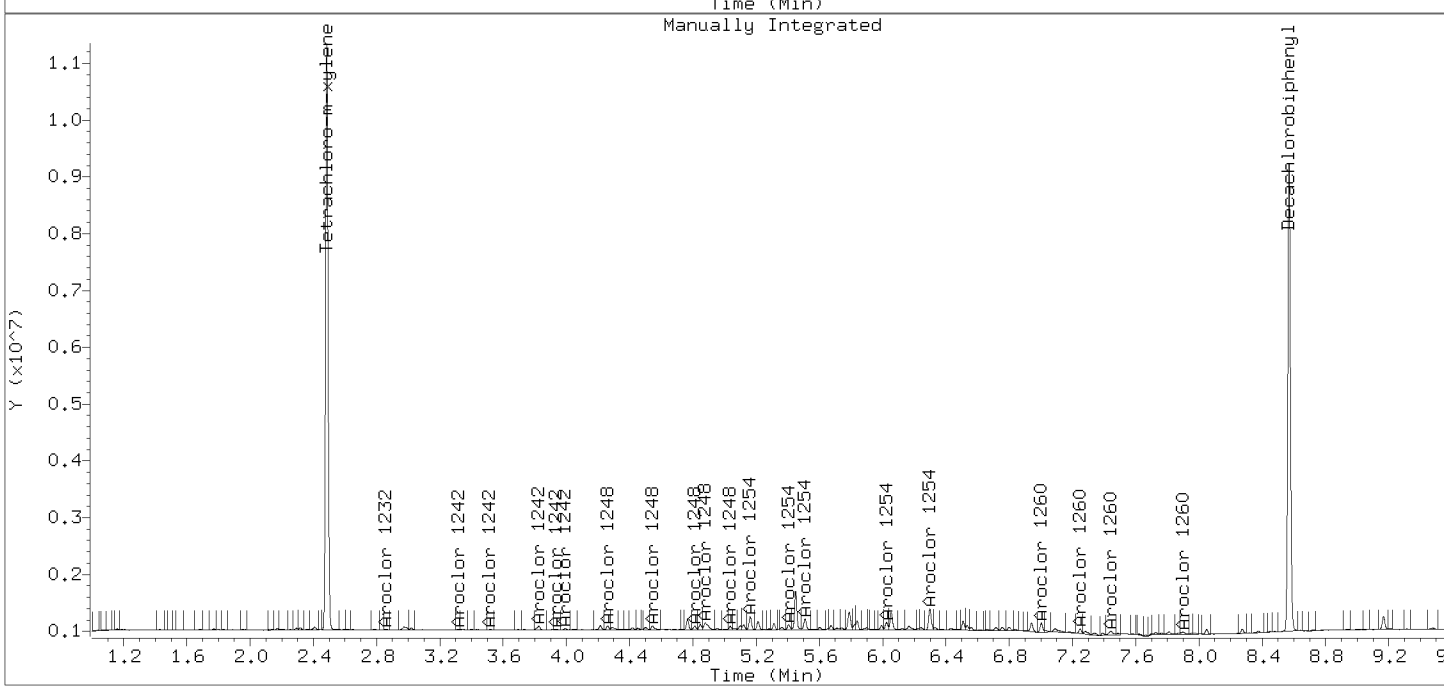
Injection Date: 24-APR-2018 16:04 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010004





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	13281	0	
Aroclor 1221	13281	0	
Aroclor 1221	13281	0	
Aroclor 1221	13281	0	
Aroclor 1221	13281	0	
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA

Aroclor 1232	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	82816	92091	BA
Aroclor 1248	82816	92091	BA
Aroclor 1248	82816	92091	BA
Aroclor 1248	82816	92091	BA
Aroclor 1248	82816	92091	BA
Aroclor 1254	241047	266415	BA
Aroclor 1254	241047	266415	BA
Aroclor 1254	241047	266415	BA
Aroclor 1254	241047	266415	BA
Aroclor 1254	241047	266415	BA
Aroclor 1260	434510	0	CO
Aroclor 1260	434510	0	CO
Aroclor 1260	434510	0	CO
Aroclor 1260	434510	0	CO
Aroclor 1260	434510	0	CO
Tetrachloro-m-xylene	11186817	11186817	
Decachlorobiphenyl	9593027	9593027	

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SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010005
Date Analyzed: 04/24/2018 16:52
Lab File ID: 042418.B\042418018.D
Initial wt/vol: 7.1029 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)	<16.0	U
11104-28-2	PCB-1221 (Aroclor 1221)	<16.0	U
11141-16-5	PCB-1232 (Aroclor 1232)	<16.0	U
53469-21-9	PCB-1242 (Aroclor 1242)	<16.0	U
12672-29-6	PCB-1248 (Aroclor 1248)	24.0	J
11097-69-1	PCB-1254 (Aroclor 1254)	20.8	J
11096-82-5	PCB-1260 (Aroclor 1260)	23.8	J
1336-36-3	PCB, Total	68.7	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418018.D
Lab Smp Id: 40158010005 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 16:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010005,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	7.103	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.160	22814	19159	0.840	0.07		
1.337	12177	10992	0.903	0.03		
1.428	26100	18135	0.695	0.08		
1.498	13911	11454	0.823	0.04		
1.683	27526	15497	0.563	0.08		
1.771	14271	12638	0.886	0.04		
1.797	10969	11761	1.072	0.03		
2.064	10435	7360	0.705	0.03		
2.133	26227	17320	0.660	0.08		
2.172	20401	22009	1.079	0.06		
2.197	9857	9888	1.003	0.03		
2.294	47557	45296	0.952	0.15		
2.318	42925	41148	0.959	0.13		
2.360	9921	8640	0.871	0.03		
2.410	53496	42548	0.795	0.17		
2.485	11148776	10371159	0.930	36.61	$ 2 Tetrachloro-m-xylene	
2.608	9451	7354	0.778	0.03		
2.786	22526	19509	0.866	0.07		
2.989	86563	45121	0.521	0.27		
3.019	30414	29877	0.982	0.09		
3.316	21132	18348	0.868	0.06	5 Aroclor 1016	BA
3.347	16489	13414	0.813	0.05		
3.401	10650	12904	1.212	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.688	15165	10677	0.704	0.04	
3.827	120454	74310	0.617	0.38	5 Aroclor 1016
3.929	28311	15551	0.549	0.09	5 Aroclor 1016
3.994	32868	20926	0.637	0.10	5 Aroclor 1016
4.054	23767	14556	0.612	0.07	
4.215	99443	80800	0.813	0.32	
4.261	90603	80262	0.886	0.29	6 Aroclor 1248
4.293	77604	52787	0.680	0.25	
4.417	51154	41291	0.807	0.16	
4.452	47339	34519	0.729	0.15	
4.502	48458	31098	0.642	0.15	
4.544	102398	80962	0.791	0.33	6 Aroclor 1248
4.590	15747	13576	0.862	0.05	
4.615	15621	11961	0.766	0.05	
4.732	14446	12982	0.899	0.04	
4.767	50821	40610	0.799	0.16	
4.814	85243	76071	0.892	0.27	6 Aroclor 1248
4.847	113293	104436	0.922	0.36	
4.879	228202	141890	0.622	0.73	6 Aroclor 1248
4.959	32273	25619	0.794	0.10	
5.003	20740	17562	0.847	0.06	
5.036	71553	68263	0.954	0.23	6 Aroclor 1248
5.101	100533	71330	0.710	0.32	
5.161	184442	157951	0.856	0.59	7 Aroclor 1254
5.213	187864	164769	0.877	0.60	
5.286	23552	21368	0.907	0.07	
5.313	65611	59560	0.908	0.21	
5.361	66092	49132	0.743	0.21	
5.406	98225	87827	0.894	0.31	7 Aroclor 1254
5.450	687534	648889	0.944	2.22	
5.508	218416	183960	0.842	0.70	7 Aroclor 1254
5.573	27349	19251	0.704	0.08	
5.602	57556	43074	0.748	0.18	
5.674	82924	71865	0.867	0.26	
5.711	39419	28547	0.724	0.12	
5.739	56066	42834	0.764	0.18	
5.789	376082	306678	0.815	1.21	
5.821	124754	83620	0.670	0.40	
5.882	19265	23905	1.241	0.06	
5.900	44137	35479	0.804	0.14	
5.932	22970	18884	0.822	0.07	
5.993	99027	90113	0.910	0.32	
6.024	156773	138159	0.881	0.50	7 Aroclor 1254
6.055	350285	304766	0.870	1.13	
6.124	28193	19446	0.690	0.09	
6.168	109505	54588	0.498	0.35	
6.242	77629	45489	0.586	0.25	
6.299	461784	388145	0.841	1.49	8 Aroclor 1260
6.332	52653	46302	0.879	0.17	
6.371	20883	17533	0.840	0.06	
6.431	57164	35718	0.625	0.18	
6.509	168731	150702	0.893	0.54	
6.534	103895	94455	0.909	0.33	
6.559	76265	59751	0.783	0.24	
6.603	19159	12954	0.676	0.06	
6.661	32625	21388	0.656	0.10	
6.718	95856	71361	0.744	0.30	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.758	105019	82201	0.783	0.33	
6.801	96167	80054	0.832	0.31	
6.838	41886	30537	0.729	0.13	
6.911	12303	12174	0.989	0.03	
6.941	128603	103174	0.802	0.41	
7.004	218570	187666	0.859	0.70	8 Aroclor 1260
7.026	9533	20866	2.189	0.03	
7.098	87309	36823	0.422	0.28	
7.250	143445	114892	0.801	0.46	8 Aroclor 1260
7.279	100041	56486	0.565	0.32	
7.340	46672	28458	0.610	0.15	
7.389	59340	55321	0.932	0.19	
7.443	112692	77143	0.685	0.36	8 Aroclor 1260
7.485	61108	36622	0.599	0.19	
7.525	54224	31427	0.580	0.17	
7.579	16316	14861	0.911	0.05	
7.621	19199	11656	0.607	0.06	
7.661	12884	14571	1.131	0.04	
7.694	35389	32392	0.915	0.11	
7.726	56781	41360	0.728	0.18	
7.763	44760	33499	0.748	0.14	
7.812	48193	27839	0.578	0.15	
7.835	15157	15465	1.020	0.04	
7.874	12932	12645	0.978	0.04	
7.900	70659	50648	0.717	0.22	8 Aroclor 1260
7.955	65689	48692	0.741	0.21	
8.048	50736	41868	0.825	0.16	
8.273	101549	91458	0.901	0.32	
8.317	19880	18183	0.915	0.06	
8.375	156115	122716	0.786	0.50	
8.446	42147	39744	0.943	0.13	
8.482	48892	42829	0.876	0.15	
8.570	10073245	8659587	0.860	32.57	$ 12 Decachlorobiphenyl
8.644	48196	32267	0.669	0.15	
8.721	30707	19989	0.651	0.09	
9.168	1175636	1035007	0.880	3.80	
9.467	10229	8634	0.844	0.03	
9.477	19898	14620	0.735	0.06	
	30925415	26916407		100.000	

Total unknown % area = 23

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418018.D
Lab Smp Id: 40158010005 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 16:52
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010005,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	7.103	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	11148775	0.09042	64			
3 Aroclor 1242					CAS #: 53469-21-9			
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232					CAS #: 1114-16-5			
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	90603	0.03867	27	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	102398	0.02467	17	0.00- 20.00	113.02	BA
4.813	4.812	0.001	85243	0.04199	30	0.00- 20.00	94.08	BA
4.878	4.879	-0.001	228202	0.04530	32	0.00- 20.00	251.87	BA
5.035	5.038	-0.003	71553	0.01994	14	0.00- 20.00	78.97	BA
		Average of Peak Concentrations =			24			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	184442	0.03523	25	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	98224	0.02284	16	0.00- 20.00	53.25	BA
5.508	5.510	-0.002	218415	0.02812	20	0.00- 20.00	118.42	BA
6.023	6.027	-0.004	156772	0.03219	23	0.00- 20.00	85.00	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			21			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	461784	0.05211	37	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	218570	0.02183	15	0.00- 20.00	47.33	CO
7.249	7.251	-0.002	143445	0.03001	21	0.00- 20.00	31.06	CO
7.442	7.443	-0.001	112692	0.03866	27	0.00- 20.00	24.40	CO
7.899	7.901	-0.002	70658	0.02678	19	0.00- 20.00	15.30	CO
		Average of Peak Concentrations =			24			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10073244	0.09194	65			

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\042418.b\042418018.D

Date : 24-APR-2018 16:52

Client ID: FD1-170829-01-PKSD-

Instrument: 40GCSJ.i

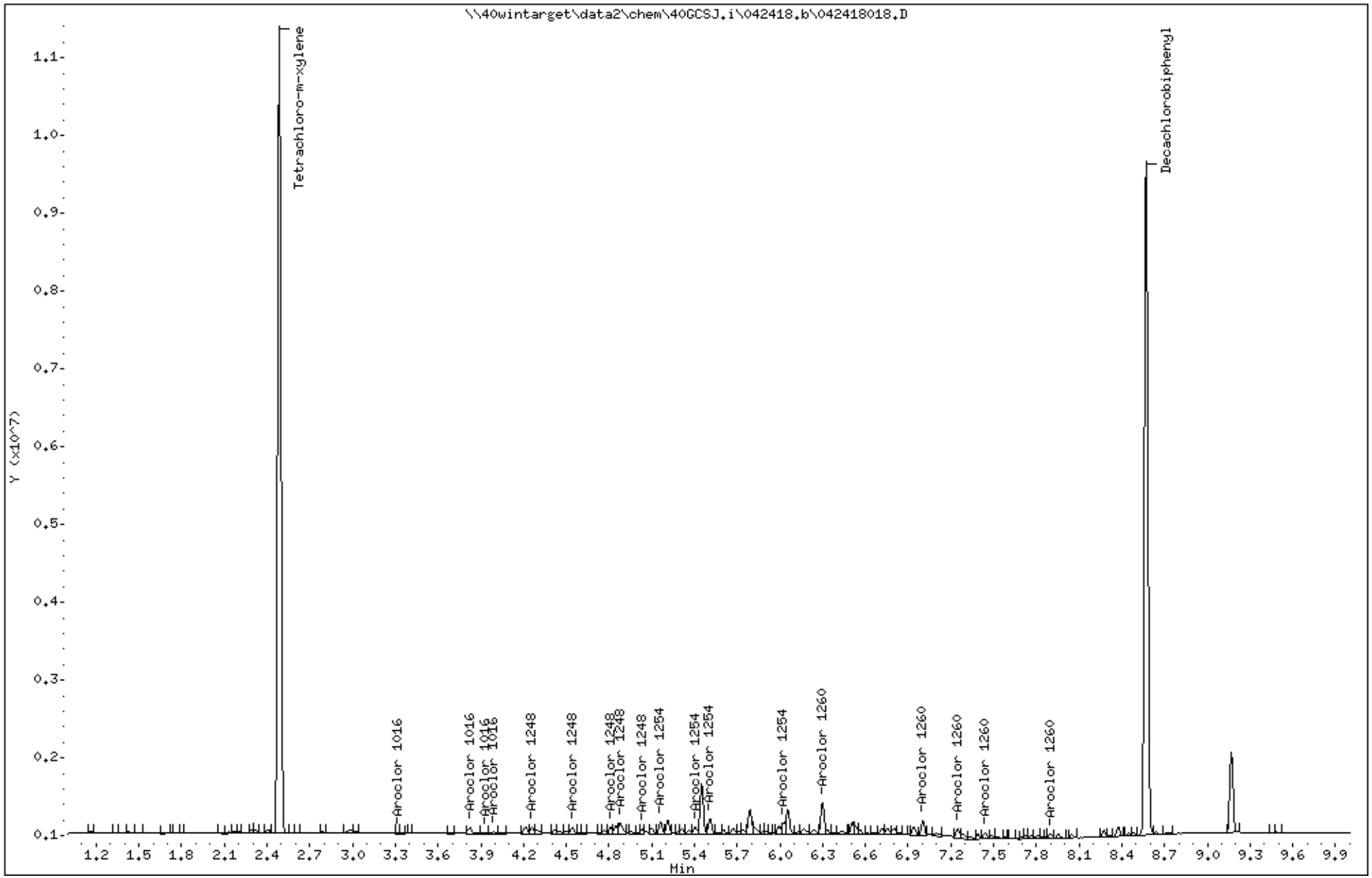
Sample Info: 40158010005,

Volume Injected (uL): 1.0

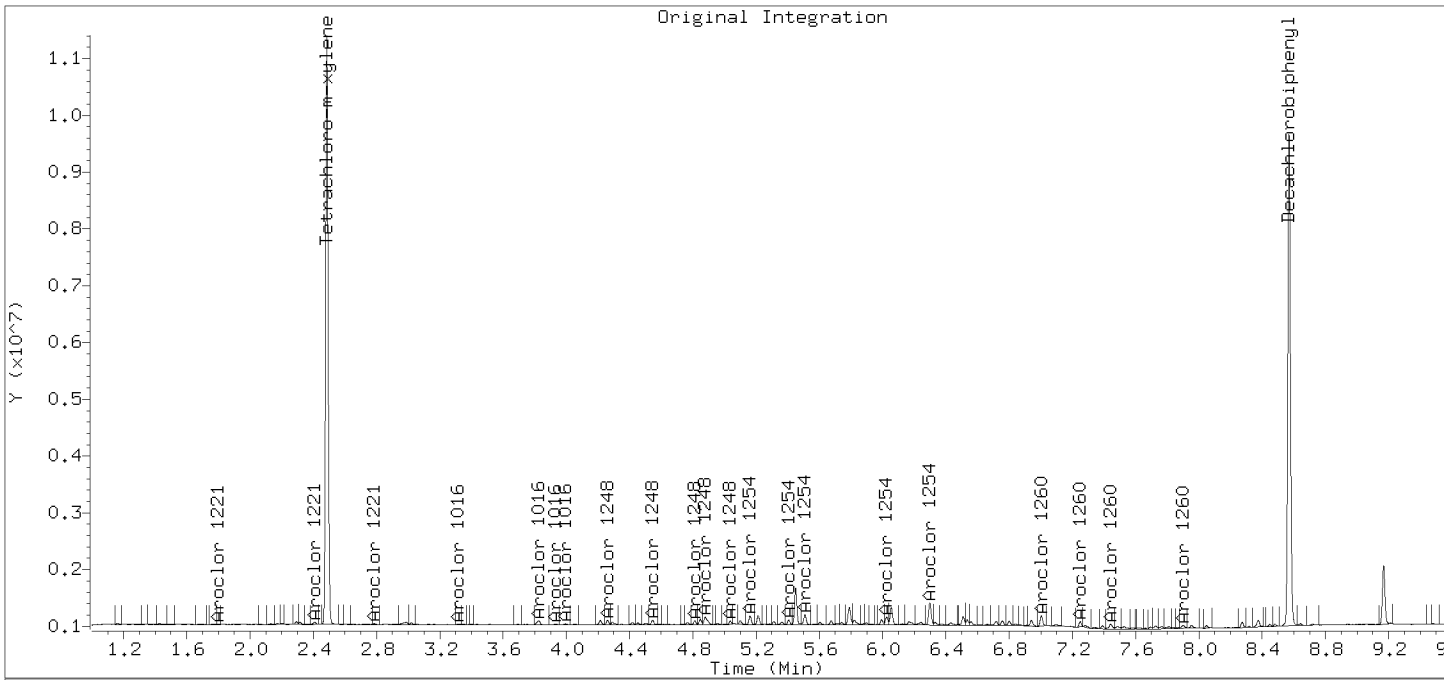
Operator: BLM

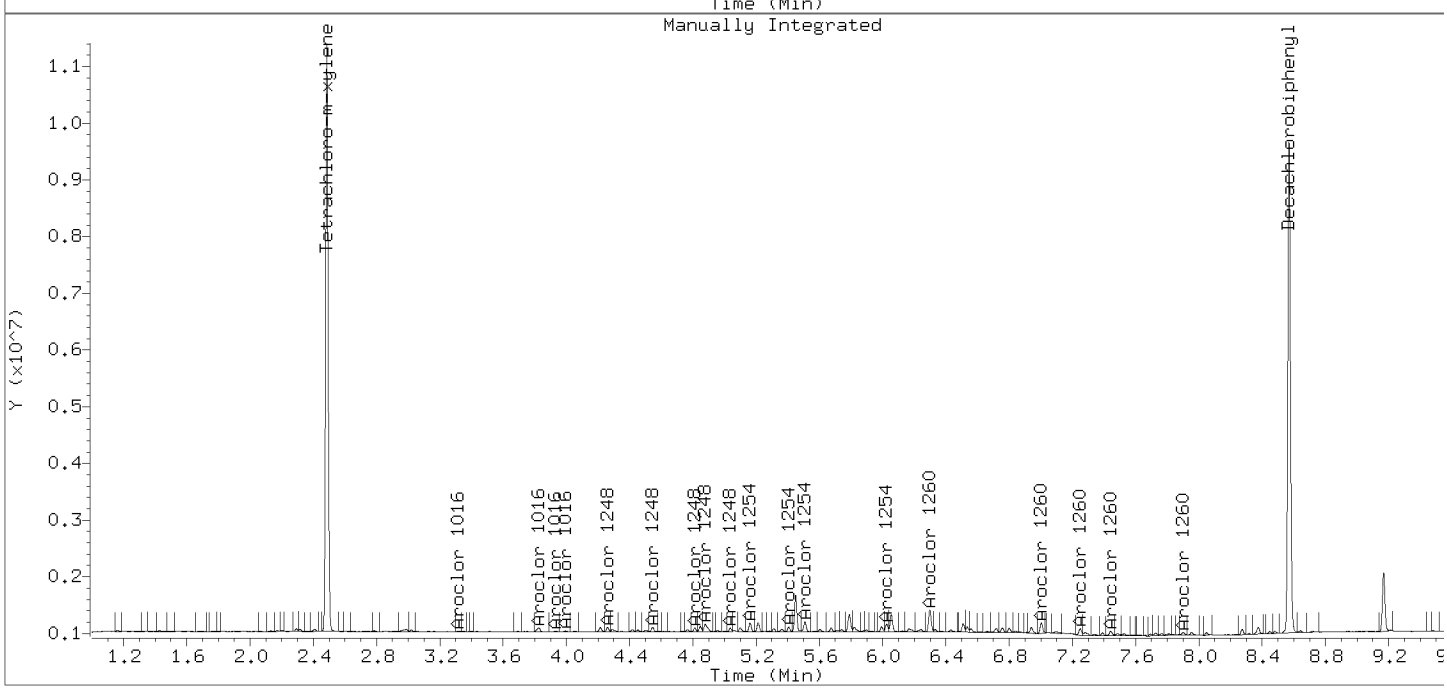
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 16:52 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010005





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	10969	0	
Aroclor 1221	10969	0	
Aroclor 1221	10969	0	
Aroclor 1221	10969	0	
Aroclor 1221	10969	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	83407	90603	BA
Aroclor 1248	83407	90603	BA
Aroclor 1248	83407	90603	BA
Aroclor 1248	83407	90603	BA
Aroclor 1248	83407	90603	BA
Aroclor 1254	170444	184442	BA
Aroclor 1254	170444	184442	BA
Aroclor 1254	170444	184442	BA
Aroclor 1254	170444	184442	BA
Aroclor 1254	170444	184442	BA
Aroclor 1260	473598	461784	CO
Aroclor 1260	473598	461784	CO
Aroclor 1260	473598	461784	CO
Aroclor 1260	473598	461784	CO
Aroclor 1260	473598	461784	CO
Tetrachloro-m-xylene	11148775	11148775	
Decachlorobiphenyl	10073244	10073244	

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SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010006
Date Analyzed: 04/24/2018 17:08
Lab File ID: 042418.B\042418019.D
Initial wt/vol: 10.0337 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)	24.9	J
11097-69-1	PCB-1254 (Aroclor 1254)	20.1	J
11096-82-5	PCB-1260 (Aroclor 1260)	22.4	J
1336-36-3	PCB, Total	67.4	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418019.D
Lab Smp Id: 40158010006 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 17:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010006,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.034	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.034	12053	10898	0.904	0.03		
1.071	12065	12014	0.996	0.03		
1.096	17170	9572	0.557	0.05		
1.160	29059	21853	0.752	0.08		
1.188	21214	14157	0.667	0.06		
1.427	9503	8860	0.932	0.02		
1.535	13276	9666	0.728	0.03		
1.683	13100	11330	0.865	0.03		
1.768	32791	21193	0.646	0.09		
1.830	10673	8101	0.759	0.03		
2.011	17220	10593	0.615	0.05		
2.172	16071	16257	1.012	0.04		
2.198	43622	24082	0.552	0.12		
2.295	21025	21125	1.005	0.06		
2.315	26594	24044	0.904	0.07		
2.409	52598	44782	0.851	0.15		
2.485	11465207	10862375	0.947	34.10	$ 2 Tetrachloro-m-xylene	
2.784	19023	16664	0.876	0.05		
2.860	13118	11973	0.913	0.03		
2.977	100020	42065	0.421	0.29		
3.018	39527	36036	0.912	0.11		
3.054	9952	8973	0.902	0.02		
3.320	20653	16526	0.800	0.06	5 Aroclor 1016	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.341	13499	12978	0.961	0.03	
3.401	11284	10688	0.947	0.03	
3.732	12959	14220	1.097	0.03	
3.827	149380	100431	0.672	0.43	5 Aroclor 1016
3.928	30124	19828	0.658	0.08	5 Aroclor 1016
3.995	47156	30915	0.656	0.13	5 Aroclor 1016
4.051	20539	13818	0.673	0.05	
4.215	144521	118241	0.818	0.42	
4.261	142767	125056	0.876	0.41	6 Aroclor 1248
4.291	129225	86058	0.666	0.37	
4.418	69125	55724	0.806	0.20	
4.453	63102	48243	0.765	0.18	
4.502	45100	31311	0.694	0.13	
4.546	139862	111664	0.798	0.40	6 Aroclor 1248
4.584	16673	14354	0.861	0.04	
4.612	18151	13151	0.725	0.05	
4.683	14879	10890	0.732	0.04	
4.731	19870	17345	0.873	0.05	
4.766	201919	187821	0.930	0.58	
4.812	121918	107500	0.882	0.35	6 Aroclor 1248
4.848	150584	139666	0.927	0.43	
4.879	331005	206843	0.625	0.96	6 Aroclor 1248
4.956	44088	36482	0.827	0.12	
5.002	29552	21728	0.735	0.08	
5.034	104408	95401	0.914	0.30	6 Aroclor 1248
5.062	31712	27189	0.857	0.09	
5.100	160549	100089	0.623	0.46	
5.162	279031	239755	0.859	0.81	7 Aroclor 1254
5.212	251549	221478	0.880	0.73	
5.252	20714	19177	0.926	0.06	
5.282	30562	30067	0.984	0.08	
5.313	108922	102973	0.945	0.31	
5.361	77021	67034	0.870	0.22	
5.406	125766	115416	0.918	0.36	7 Aroclor 1254
5.451	949665	898423	0.946	2.76	
5.509	289579	247373	0.854	0.84	7 Aroclor 1254
5.576	32958	24764	0.751	0.09	
5.602	63700	51817	0.813	0.18	
5.675	126576	108051	0.854	0.36	
5.711	58771	39289	0.669	0.17	
5.739	79614	59908	0.752	0.23	
5.789	513977	425215	0.827	1.49	
5.822	99690	118919	1.193	0.29	
5.840	188006	158202	0.841	0.54	
5.887	28204	33592	1.191	0.08	
5.899	54619	49487	0.906	0.15	
5.931	27057	23319	0.862	0.07	
5.993	133257	125130	0.939	0.38	
6.025	201931	175154	0.867	0.58	7 Aroclor 1254
6.055	492572	433213	0.879	1.43	
6.122	29402	22091	0.751	0.08	
6.167	151400	74122	0.490	0.44	
6.242	96409	58771	0.610	0.28	
6.297	646084	539047	0.834	1.88	8 Aroclor 1260
6.334	71886	64096	0.892	0.20	
6.370	27312	22481	0.823	0.07	
6.431	83663	50220	0.600	0.24	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.509	258326	220033	0.852	0.75	
6.535	131116	122352	0.933	0.38	
6.560	106954	85472	0.799	0.31	
6.607	19603	14437	0.736	0.05	
6.657	37351	27999	0.750	0.10	
6.717	114441	91314	0.798	0.33	
6.756	126428	101166	0.800	0.36	
6.802	125111	99662	0.797	0.36	
6.839	48818	38757	0.794	0.14	
6.941	154862	125274	0.809	0.45	
7.005	276935	238375	0.861	0.80	8 Aroclor 1260
7.029	20282	25061	1.236	0.05	
7.054	14356	17654	1.230	0.04	
7.097	76752	46804	0.610	0.22	
7.251	171399	141306	0.824	0.49	8 Aroclor 1260
7.280	111693	65826	0.589	0.32	
7.342	57041	33319	0.584	0.16	
7.390	71563	66827	0.934	0.20	
7.443	135441	95291	0.704	0.39	8 Aroclor 1260
7.486	64792	39434	0.609	0.18	
7.527	69166	37811	0.547	0.20	
7.581	21311	15661	0.735	0.06	
7.629	36352	27342	0.752	0.10	
7.664	21586	24798	1.149	0.06	
7.696	35971	33589	0.934	0.10	
7.728	65845	41787	0.635	0.19	
7.762	60535	45697	0.755	0.17	
7.809	77882	36951	0.474	0.22	
7.863	11227	17852	1.590	0.03	
7.900	110818	63978	0.577	0.32	8 Aroclor 1260
7.953	110097	68991	0.627	0.32	
8.047	64823	54834	0.846	0.18	
8.273	103257	90465	0.876	0.30	
8.318	16358	16283	0.995	0.04	
8.374	159403	118242	0.742	0.46	
8.447	55188	47645	0.863	0.16	
8.481	55142	51164	0.928	0.16	
8.570	10111840	9023432	0.892	29.48	$ 12 Decachlorobiphenyl
8.639	47659	33446	0.702	0.13	
8.722	45027	28776	0.639	0.13	
9.167	1178720	1048790	0.890	3.43	
9.213	49687	27689	0.557	0.14	
9.480	23405	16921	0.723	0.06	
9.558	16951	10112	0.597	0.04	
	34290894	30297976		100.000	

Total unknown % area = 27

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418019.D
Lab Smp Id: 40158010006 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 17:08
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010006,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.034	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	11465207	0.09299	46			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	142767	0.06093	30	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	139862	0.03370	17	0.00- 20.00	97.97	CO
4.811	4.812	-0.001	121918	0.06006	30	0.00- 20.00	85.40	CO
4.878	4.879	-0.001	331004	0.06571	33	0.00- 20.00	231.85	CO
5.034	5.038	-0.004	104408	0.02909	14	0.00- 20.00	73.13	CO
Average of Peak Concentrations =					25			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	279031	0.05330	26	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	125766	0.02924	14	0.00- 20.00	45.07	BA
5.508	5.510	-0.002	289578	0.03729	18	0.00- 20.00	103.78	BA
6.025	6.027	-0.002	201930	0.04147	21	0.00- 20.00	72.37	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					20			
8 Aroclor 1260					CAS #: 11096-82-5			
6.297	6.300	-0.003	646083	0.07290	36	0.00- 20.00	100.00(M)	CO
7.004	7.006	-0.002	276935	0.02765	14	0.00- 20.00	42.86	CO
7.249	7.251	-0.002	171399	0.03586	18	0.00- 20.00	26.53	CO
7.442	7.443	-0.001	135441	0.04646	23	0.00- 20.00	20.96	CO
7.899	7.901	-0.002	110818	0.04200	21	0.00- 20.00	17.15	CO
Average of Peak Concentrations =					22			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10111840	0.09230	46			

QC Flag Legend

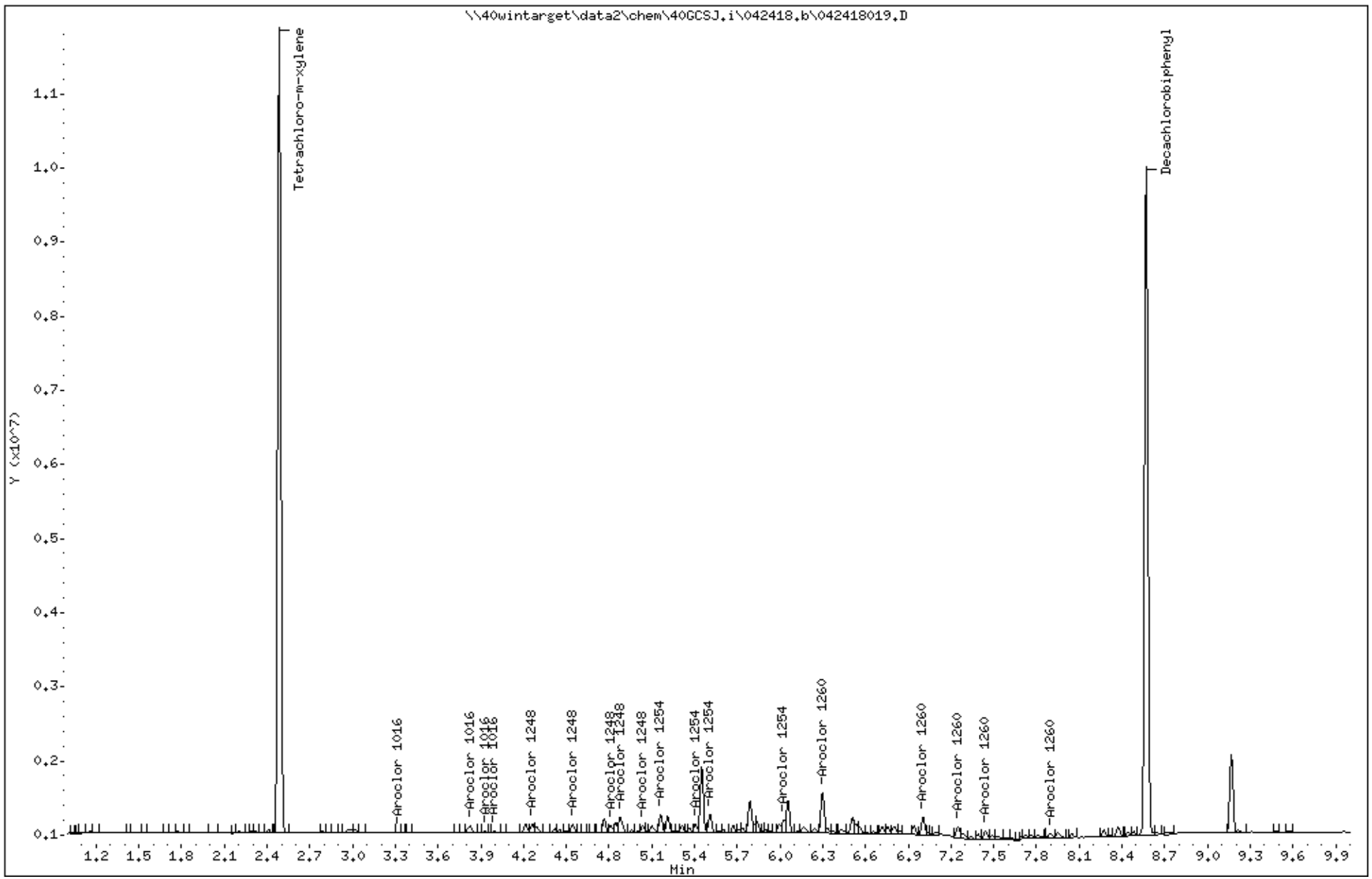
M - Compound response manually integrated.

Review Codes Legend

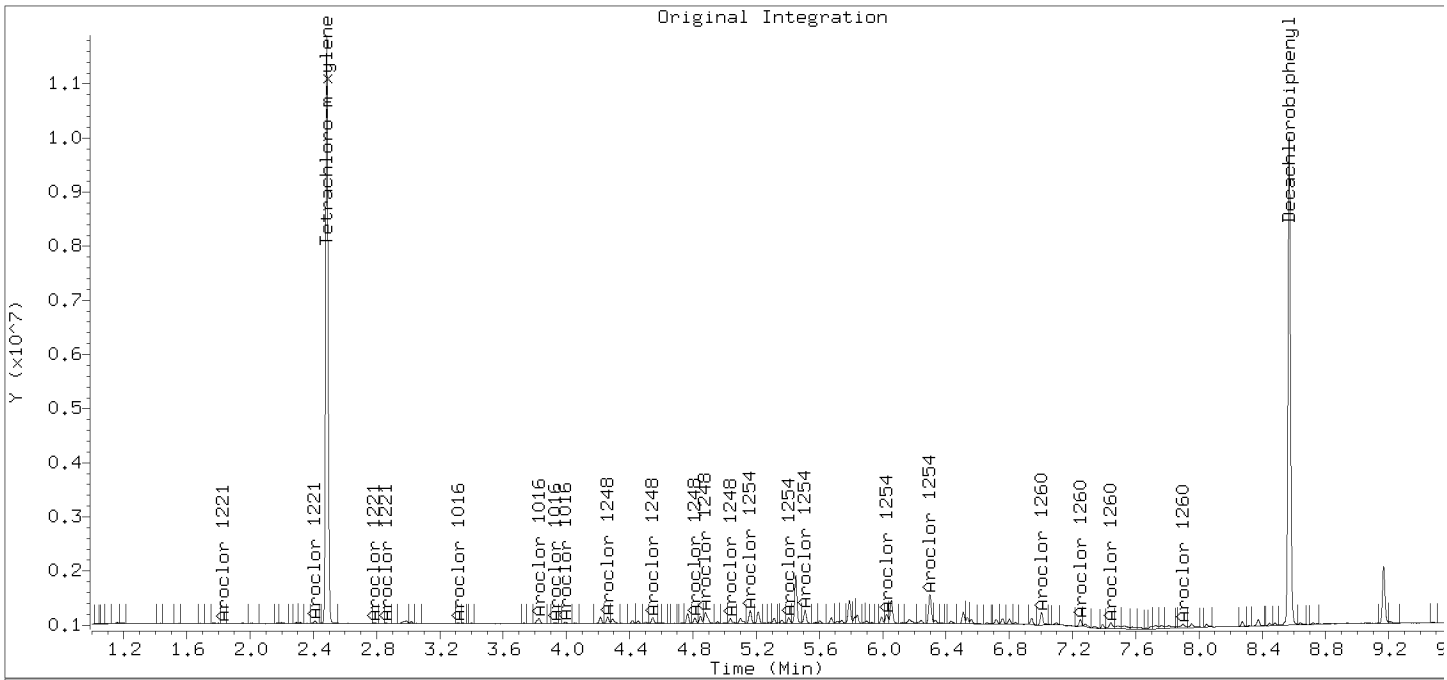
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

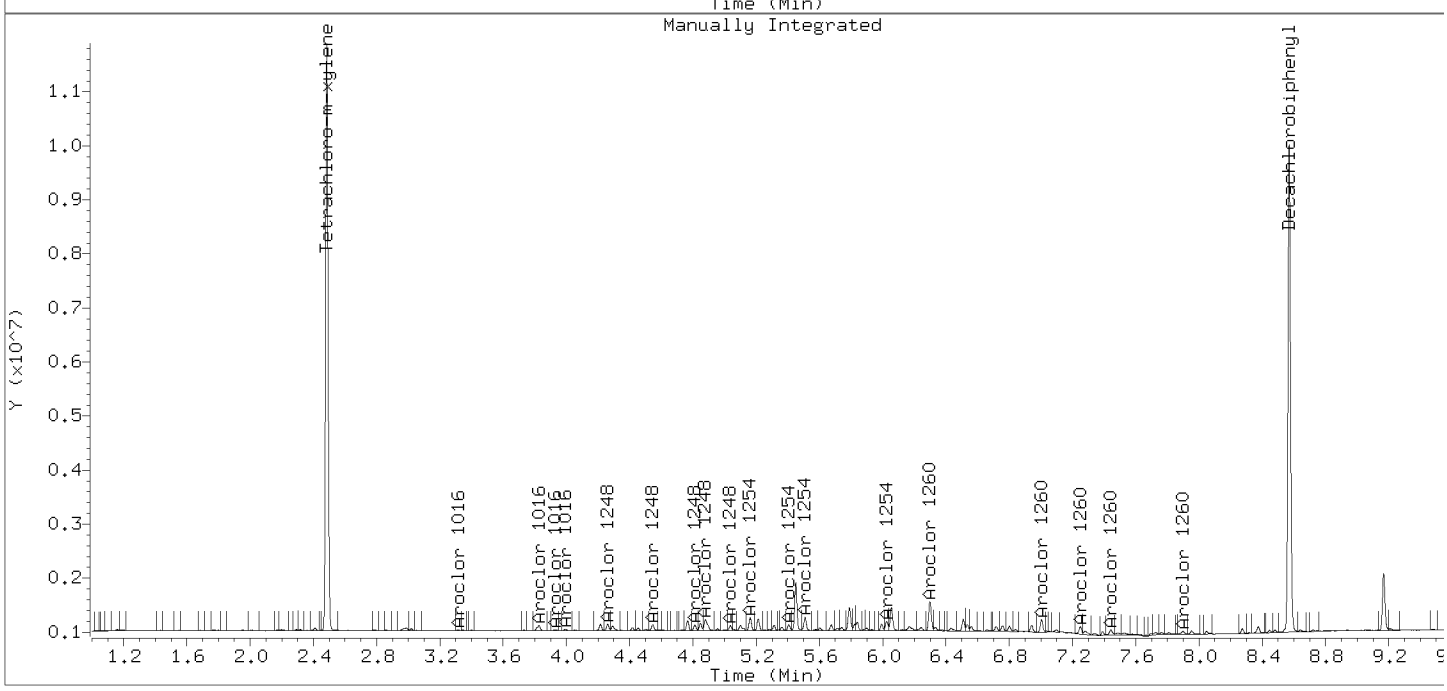
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418019.D
Date : 24-APR-2018 17:08
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010006,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 17:08 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010006





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	10673	0	
Aroclor 1221	10673	0	
Aroclor 1221	10673	0	
Aroclor 1221	10673	0	
Aroclor 1221	10673	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	131662	142767	CO
Aroclor 1248	131662	142767	CO
Aroclor 1248	131662	142767	CO
Aroclor 1248	131662	142767	CO
Aroclor 1248	131662	142767	CO
Aroclor 1254	269961	279031	BA
Aroclor 1254	269961	279031	BA
Aroclor 1254	269961	279031	BA
Aroclor 1254	269961	279031	BA
Aroclor 1254	269961	279031	BA
Aroclor 1260	641558	646083	CO
Aroclor 1260	641558	646083	CO
Aroclor 1260	641558	646083	CO
Aroclor 1260	641558	646083	CO
Aroclor 1260	641558	646083	CO
Tetrachloro-m-xylene	11465207	11465207	
Decachlorobiphenyl	10111840	10111840	

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SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010007
Date Analyzed: 04/24/2018 17:24
Lab File ID: 042418.B\042418020.D
Initial wt/vol: 7.8817 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)	<14.5	U
11104-28-2	PCB-1221 (Aroclor 1221)	<14.5	U
11141-16-5	PCB-1232 (Aroclor 1232)	<14.5	U
53469-21-9	PCB-1242 (Aroclor 1242)	<14.5	U
12672-29-6	PCB-1248 (Aroclor 1248)	20.5	J
11097-69-1	PCB-1254 (Aroclor 1254)	18.7	J
11096-82-5	PCB-1260 (Aroclor 1260)	19.5	J
1336-36-3	PCB, Total	58.8	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418020.D
Lab Smp Id: 40158010007 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 17:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010007,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 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	7.882	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.027	11537	9203	0.798	0.03		
1.074	11015	9199	0.835	0.03		
1.161	20067	17790	0.887	0.06		
1.432	17767	12422	0.699	0.06		
1.681	9649	11019	1.142	0.03		
1.771	20132	19825	0.985	0.06		
1.832	9862	10423	1.057	0.03		
2.060	12684	9059	0.714	0.04		
2.131	12874	10449	0.812	0.04		
2.171	14548	17164	1.180	0.04		
2.200	24598	15883	0.646	0.08		
2.293	25306	26005	1.028	0.08		
2.316	24231	24525	1.012	0.08		
2.361	10782	9909	0.919	0.03		
2.411	47118	39457	0.837	0.15		
2.484	10868660	10468097	0.963	37.48	$ 2 Tetrachloro-m-xylene	
2.787	20998	16978	0.809	0.07		
2.857	14663	11885	0.811	0.04		
2.976	41216	36646	0.889	0.13		
2.989	48838	45299	0.928	0.16		
3.019	32104	30885	0.962	0.10		
3.319	17173	12325	0.718	0.05	5 Aroclor 1016	BA
3.344	10600	10195	0.962	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.402	16296	16737	1.027	0.05	
3.694	17860	16782	0.940	0.06	
3.732	13581	7769	0.572	0.04	
3.827	98764	66612	0.674	0.33	5 Aroclor 1016
3.931	19793	13216	0.668	0.06	5 Aroclor 1016
3.995	27134	19658	0.724	0.09	5 Aroclor 1016
4.052	20077	15112	0.753	0.06	
4.214	96042	72283	0.753	0.32	
4.261	84685	75728	0.894	0.28	6 Aroclor 1248
4.293	71609	46889	0.655	0.24	
4.416	44495	37901	0.852	0.15	
4.452	42775	30117	0.704	0.14	
4.500	56936	38234	0.672	0.19	
4.544	95826	72784	0.760	0.32	6 Aroclor 1248
4.738	12630	11971	0.948	0.04	
4.766	221973	215996	0.973	0.75	
4.813	79819	68402	0.857	0.27	6 Aroclor 1248
4.847	109468	100618	0.919	0.37	
4.878	219345	132899	0.606	0.74	6 Aroclor 1248
4.959	30976	22736	0.734	0.10	
5.004	22194	16486	0.743	0.07	
5.037	70874	63871	0.901	0.24	6 Aroclor 1248
5.062	22688	25689	1.132	0.07	
5.099	76525	66480	0.869	0.25	
5.122	50964	49579	0.973	0.17	
5.164	202247	179554	0.888	0.68	7 Aroclor 1254
5.213	178716	155031	0.867	0.60	
5.284	21386	19270	0.901	0.07	
5.313	99251	93727	0.944	0.33	
5.363	58830	46580	0.792	0.19	
5.407	93119	82826	0.889	0.31	7 Aroclor 1254
5.451	728026	669760	0.920	2.46	
5.509	208300	177299	0.851	0.70	7 Aroclor 1254
5.572	21035	15234	0.724	0.07	
5.603	54851	44157	0.805	0.18	
5.674	83645	68717	0.822	0.28	
5.713	38353	29156	0.760	0.12	
5.741	58091	39293	0.676	0.19	
5.790	365881	297426	0.813	1.23	
5.822	66371	93802	1.413	0.22	
5.839	199759	173670	0.869	0.67	
5.886	19652	21852	1.112	0.06	
5.899	46315	38585	0.833	0.15	
5.930	17087	15090	0.883	0.05	
5.993	80830	74659	0.924	0.27	
6.024	151075	133628	0.885	0.51	7 Aroclor 1254
6.055	321468	276053	0.859	1.08	
6.120	23260	16966	0.729	0.07	
6.166	102968	51548	0.501	0.34	
6.226	15337	22542	1.470	0.05	
6.241	53044	37899	0.714	0.17	
6.299	430767	373245	0.866	1.45	8 Aroclor 1260
6.331	49470	42101	0.851	0.16	
6.371	16325	15052	0.922	0.05	
6.430	43323	28696	0.662	0.14	
6.508	150733	130552	0.866	0.51	
6.536	81378	78222	0.961	0.27	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.560	61356	49962	0.814	0.20	
6.610	14850	10427	0.702	0.05	
6.658	31045	18245	0.588	0.10	
6.716	81707	66142	0.810	0.27	
6.757	83590	67894	0.812	0.28	
6.799	84636	63627	0.752	0.28	
6.841	32375	25655	0.792	0.10	
6.941	115538	94536	0.818	0.39	
7.003	177515	153221	0.863	0.60	8 Aroclor 1260
7.032	15474	18762	1.212	0.05	
7.094	88257	35671	0.404	0.29	
7.184	51837	19942	0.385	0.17	
7.248	120532	94498	0.784	0.40	8 Aroclor 1260
7.283	91271	51261	0.562	0.30	
7.338	55570	31977	0.575	0.18	
7.391	44467	42693	0.960	0.15	
7.442	96148	63371	0.659	0.32	8 Aroclor 1260
7.484	55213	27329	0.495	0.18	
7.524	47452	24588	0.518	0.16	
7.577	15776	15455	0.980	0.05	
7.611	5939	7805	1.314	0.02	
7.627	27221	21223	0.780	0.09	
7.661	21791	21935	1.007	0.07	
7.695	13567	17565	1.295	0.04	
7.728	60910	37772	0.620	0.20	
7.761	47997	30325	0.632	0.16	
7.809	56445	28401	0.503	0.19	
7.872	26922	20207	0.751	0.09	
7.899	77479	43175	0.557	0.26	8 Aroclor 1260
7.955	76121	37178	0.488	0.25	
8.049	45849	40351	0.880	0.15	
8.075	23887	21472	0.899	0.08	
8.275	87368	79871	0.914	0.29	
8.319	11232	10058	0.895	0.03	
8.375	93760	68698	0.733	0.31	
8.446	27507	25654	0.933	0.09	
8.480	26550	24362	0.918	0.08	
8.570	9711337	8603522	0.886	32.90	$ 12 Decachlorobiphenyl
8.642	25637	21574	0.842	0.08	
8.721	17117	14381	0.840	0.05	
9.167	586787	525071	0.895	1.98	
9.213	24398	17207	0.705	0.08	
9.482	18566	15345	0.827	0.06	
	29509637	26429791		100.000	

Total unknown % area = 22

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418020.D
Lab Smp Id: 40158010007 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 17:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010007,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 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	7.882	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	10868660	0.08815	56			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	84684	0.03614	23	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	95826	0.02309	15	0.00- 20.00	113.16	CO
4.812	4.812	0.000	79819	0.03932	25	0.00- 20.00	94.26	CO
4.878	4.879	-0.001	219345	0.04354	28	0.00- 20.00	259.02	CO
5.037	5.038	-0.001	70873	0.01975	12	0.00- 20.00	83.69	CO
Average of Peak Concentrations =					20			
7 Aroclor 1254					CAS #: 11097-69-1			
5.163	5.162	0.001	202246	0.03863	24	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	93119	0.02165	14	0.00- 20.00	46.04	BA
5.508	5.510	-0.002	208300	0.02682	17	0.00- 20.00	102.99	BA
6.024	6.027	-0.003	151075	0.03102	20	0.00- 20.00	74.70	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					19			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	430767	0.04861	31	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	177515	0.01773	11	0.00- 20.00	41.21	CO
7.248	7.251	-0.003	120532	0.02522	16	0.00- 20.00	27.98	CO
7.442	7.443	-0.001	96148	0.03298	21	0.00- 20.00	22.32	CO
7.899	7.901	-0.002	77479	0.02936	19	0.00- 20.00	17.99	CO
Average of Peak Concentrations =					20			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9711336	0.08864	56			

QC Flag Legend

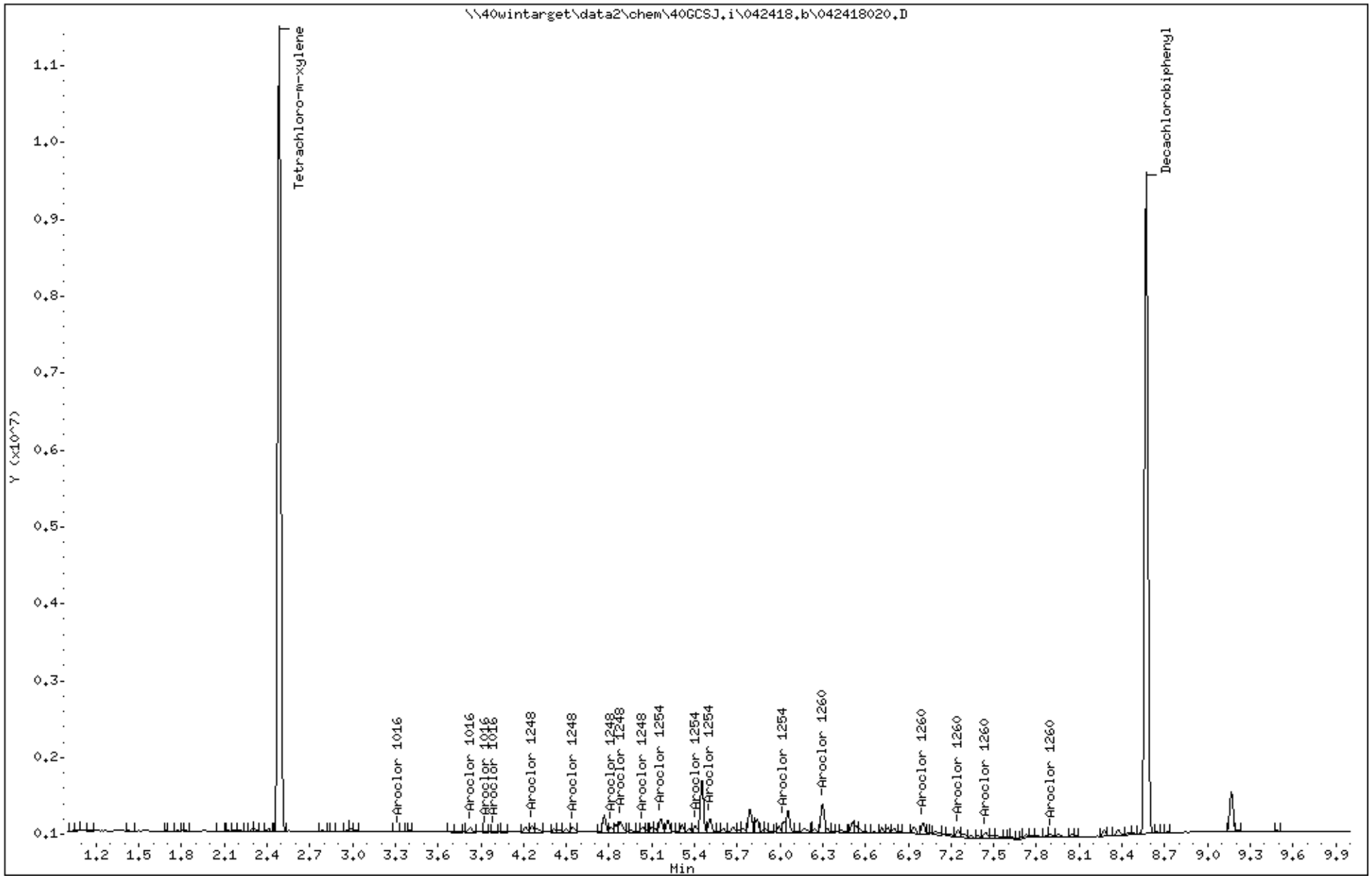
M - Compound response manually integrated.

Review Codes Legend

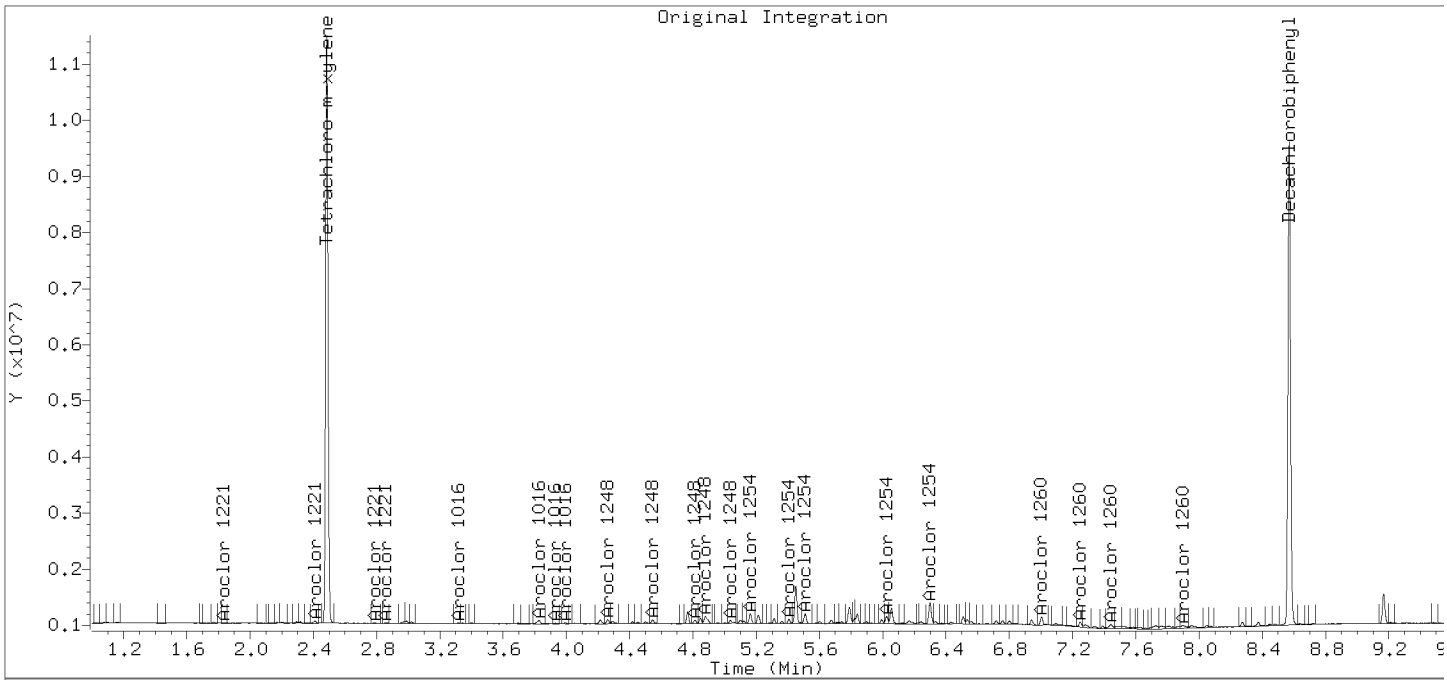
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

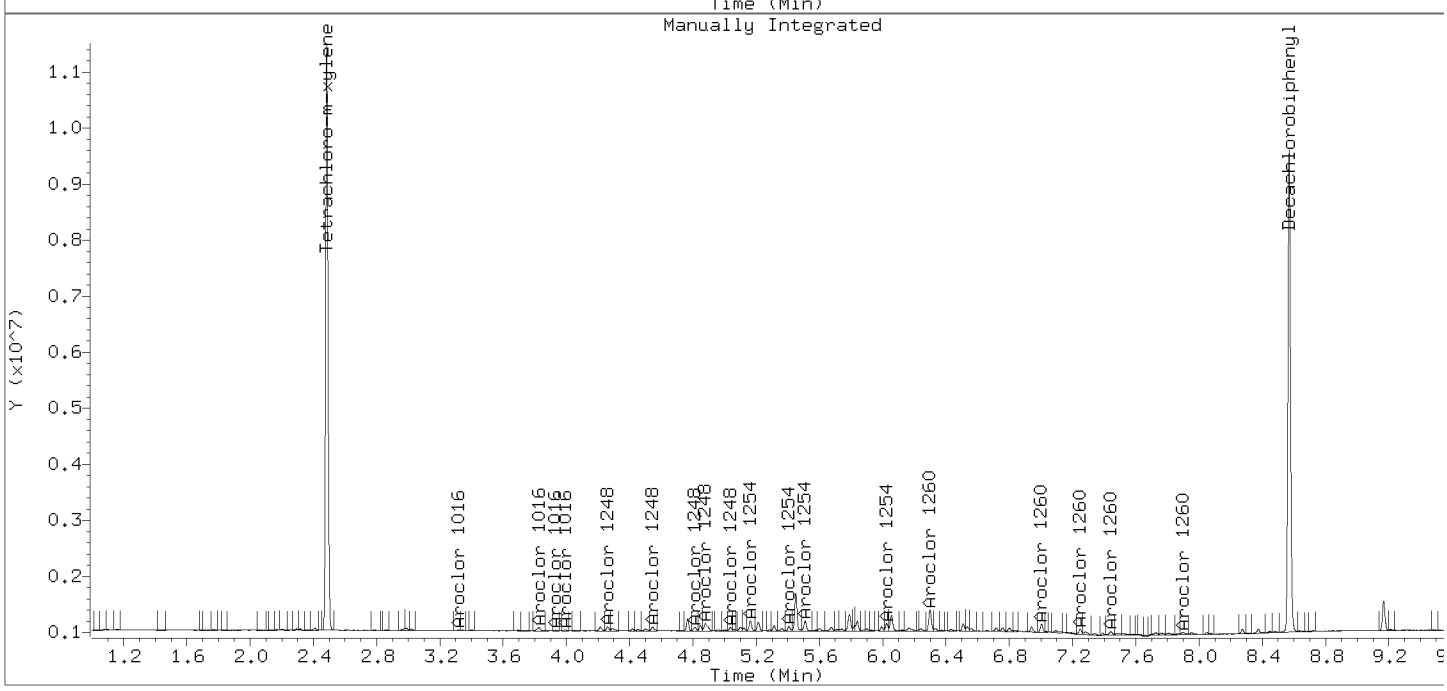
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418020.D
Date : 24-APR-2018 17:24
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010007,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 17:24 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010007





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	9861	0	
Aroclor 1221	9861	0	
Aroclor 1221	9861	0	
Aroclor 1221	9861	0	
Aroclor 1221	9861	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	79964	84684	CO
Aroclor 1248	79964	84684	CO
Aroclor 1248	79964	84684	CO
Aroclor 1248	79964	84684	CO
Aroclor 1248	79964	84684	CO
Aroclor 1254	183586	202246	BA
Aroclor 1254	183586	202246	BA
Aroclor 1254	183586	202246	BA
Aroclor 1254	183586	202246	BA
Aroclor 1254	183586	202246	BA
Aroclor 1260	430020	430767	CO
Aroclor 1260	430020	430767	CO
Aroclor 1260	430020	430767	CO
Aroclor 1260	430020	430767	CO
Aroclor 1260	430020	430767	CO
Tetrachloro-m-xylene	10868660	10868660	
Decachlorobiphenyl	9711336	9711336	

==========

SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010008
Date Analyzed: 04/24/2018 17:40
Lab File ID: 042418.B\042418021.D
Initial wt/vol: 6.1702 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)	<18.5	U
11104-28-2	PCB-1221 (Aroclor 1221)	<18.5	U
11141-16-5	PCB-1232 (Aroclor 1232)	<18.5	U
53469-21-9	PCB-1242 (Aroclor 1242)	<18.5	U
12672-29-6	PCB-1248 (Aroclor 1248)	18.9	J
11097-69-1	PCB-1254 (Aroclor 1254)	24.4	J
11096-82-5	PCB-1260 (Aroclor 1260)	<18.5	U
1336-36-3	PCB, Total	43.3	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418021.D
Lab Smp Id: 40158010008 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 17:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010008,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	6.170	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.160	11818	14726	1.246	0.04		
1.188	17692	11713	0.662	0.06		
1.331	11824	10594	0.896	0.04		
1.424	14316	14046	0.981	0.05		
1.492	9456	9589	1.014	0.03		
1.537	9509	6702	0.705	0.03		
1.685	33438	22441	0.671	0.12		
1.772	14515	13233	0.912	0.05		
1.801	28530	22886	0.802	0.10		
1.832	25048	20151	0.805	0.09		
2.172	14596	16384	1.122	0.05		
2.199	18895	15424	0.816	0.07		
2.253	10448	7495	0.717	0.03		
2.293	39452	38064	0.965	0.14		
2.314	32686	29298	0.896	0.12		
2.410	31731	25821	0.814	0.11		
2.485	10566876	9949338	0.942	39.76	$ 2 Tetrachloro-m-xylene	
2.788	24076	18700	0.777	0.08		
2.974	67424	31341	0.465	0.25		
3.020	31185	25001	0.802	0.11		
3.316	23713	11137	0.470	0.08	5 Aroclor 1016	
3.401	10948	10353	0.946	0.04		
3.695	11068	10039	0.907	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.825	52871	35782	0.677	0.19	5 Aroclor 1016
3.993	16268	12901	0.793	0.06	5 Aroclor 1016
4.196	11637	15777	1.356	0.04	
4.214	73919	48615	0.658	0.27	
4.262	54718	47848	0.874	0.20	6 Aroclor 1248
4.293	56914	35241	0.619	0.21	
4.417	37098	26630	0.718	0.13	
4.451	34725	22636	0.652	0.12	
4.500	56645	40081	0.708	0.21	
4.545	62932	49358	0.784	0.23	6 Aroclor 1248
4.766	318856	280146	0.879	1.18	
4.812	64078	50354	0.786	0.23	6 Aroclor 1248
4.848	73881	61818	0.837	0.27	
4.879	175245	82171	0.469	0.65	6 Aroclor 1248
4.959	30511	20735	0.680	0.11	
5.012	27644	18891	0.683	0.10	
5.039	41603	39651	0.953	0.15	6 Aroclor 1248
5.062	38823	27100	0.698	0.14	
5.100	59836	51103	0.854	0.22	
5.121	122908	119946	0.976	0.45	
5.164	236857	205571	0.868	0.88	7 Aroclor 1254
5.213	105521	94023	0.891	0.39	
5.314	108261	100054	0.924	0.40	
5.360	37992	33973	0.894	0.14	
5.406	73567	66003	0.897	0.27	7 Aroclor 1254
5.451	453128	407120	0.898	1.68	
5.509	159200	133670	0.840	0.59	7 Aroclor 1254
5.601	50524	36420	0.721	0.18	
5.659	21078	24344	1.155	0.07	
5.671	62614	53565	0.855	0.23	
5.705	40234	23256	0.578	0.14	
5.740	34549	28001	0.810	0.12	
5.789	259399	211076	0.814	0.96	
5.840	282513	218797	0.774	1.04	
5.898	57794	25348	0.439	0.21	
5.994	58089	50664	0.872	0.21	
6.024	104076	91974	0.884	0.38	7 Aroclor 1254
6.055	243492	210373	0.864	0.90	
6.121	30653	19149	0.625	0.11	
6.169	81359	42129	0.518	0.30	
6.244	41262	28778	0.697	0.15	
6.299	303245	260122	0.858	1.12	7 Aroclor 1254
6.333	40583	34015	0.838	0.15	
6.373	16134	12561	0.779	0.05	
6.431	29928	18790	0.628	0.11	
6.509	125320	108706	0.867	0.46	
6.534	56202	57011	1.014	0.20	
6.560	55204	36893	0.668	0.20	
6.615	19403	13482	0.695	0.07	
6.662	23448	16445	0.701	0.08	
6.716	67854	42723	0.630	0.25	
6.759	64732	44231	0.683	0.24	
6.801	78474	53579	0.683	0.29	
6.907	13127	12191	0.929	0.04	
6.942	114968	92873	0.808	0.42	
7.003	119803	96480	0.805	0.44	8 Aroclor 1260
7.029	16605	15368	0.925	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.089	84803	42138	0.497	0.31	
7.177	29848	10596	0.355	0.11	
7.250	82692	61484	0.744	0.30	8 Aroclor 1260
7.283	71480	39238	0.549	0.26	
7.337	43363	27258	0.629	0.16	
7.392	32047	30074	0.938	0.11	
7.442	77341	43910	0.568	0.28	8 Aroclor 1260
7.581	16004	15011	0.938	0.05	
7.611	7458	12713	1.705	0.02	
7.625	28262	19323	0.684	0.10	
7.663	18062	20035	1.109	0.06	
7.702	18455	13409	0.727	0.06	
7.724	39751	32098	0.807	0.14	
7.764	20212	13328	0.659	0.07	
7.809	38513	25253	0.656	0.14	
7.859	3836	7894	2.058	0.01	
7.879	16458	18095	1.099	0.06	
7.896	40181	24430	0.608	0.14	8 Aroclor 1260
7.954	6954	8815	1.268	0.02	
7.974	22160	11199	0.505	0.08	
8.048	56611	49191	0.869	0.21	
8.272	84061	76278	0.907	0.31	
8.377	33850	25219	0.745	0.12	
8.447	10171	8054	0.792	0.03	
8.570	9697053	8400533	0.866	36.02	$ 12 Decachlorobiphenyl
9.167	153717	146633	0.954	0.57	
9.481	23128	13864	0.599	0.08	
	26914015	23637091		100.000	

Total unknown % area = 18

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418021.D
Lab Smp Id: 40158010008 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 17:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010008,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	6.170	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	10566876	0.08570	69			
3 Aroclor 1242					CAS #: 53469-21-9			
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232					CAS #: 1114-16-5			
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	54717	0.02335	19	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	62932	0.01516	12	0.00- 20.00	115.01	BA
4.812	4.812	0.000	64077	0.03156	26	0.00- 20.00	117.11	BA
4.879	4.879	0.000	175245	0.03479	28	0.00- 20.00	320.28	BA
5.039	5.038	0.001	41603	0.01159	9.4	0.00- 20.00	76.03	BA
Average of Peak Concentrations =					19			
7 Aroclor 1254					CAS #: 11097-69-1			
5.164	5.162	0.002	236856	0.04524	37	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	73567	0.01710	14	0.00- 20.00	31.06	BA
5.508	5.510	-0.002	159199	0.02050	17	0.00- 20.00	67.21	BA
6.024	6.027	-0.003	104075	0.02137	17	0.00- 20.00	43.94	BA
6.298	6.299	-0.001	303245	0.04660	38	0.00- 20.00	128.03	BA
Average of Peak Concentrations =					24			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	9697052	0.08851	72			

QC Flag Legend

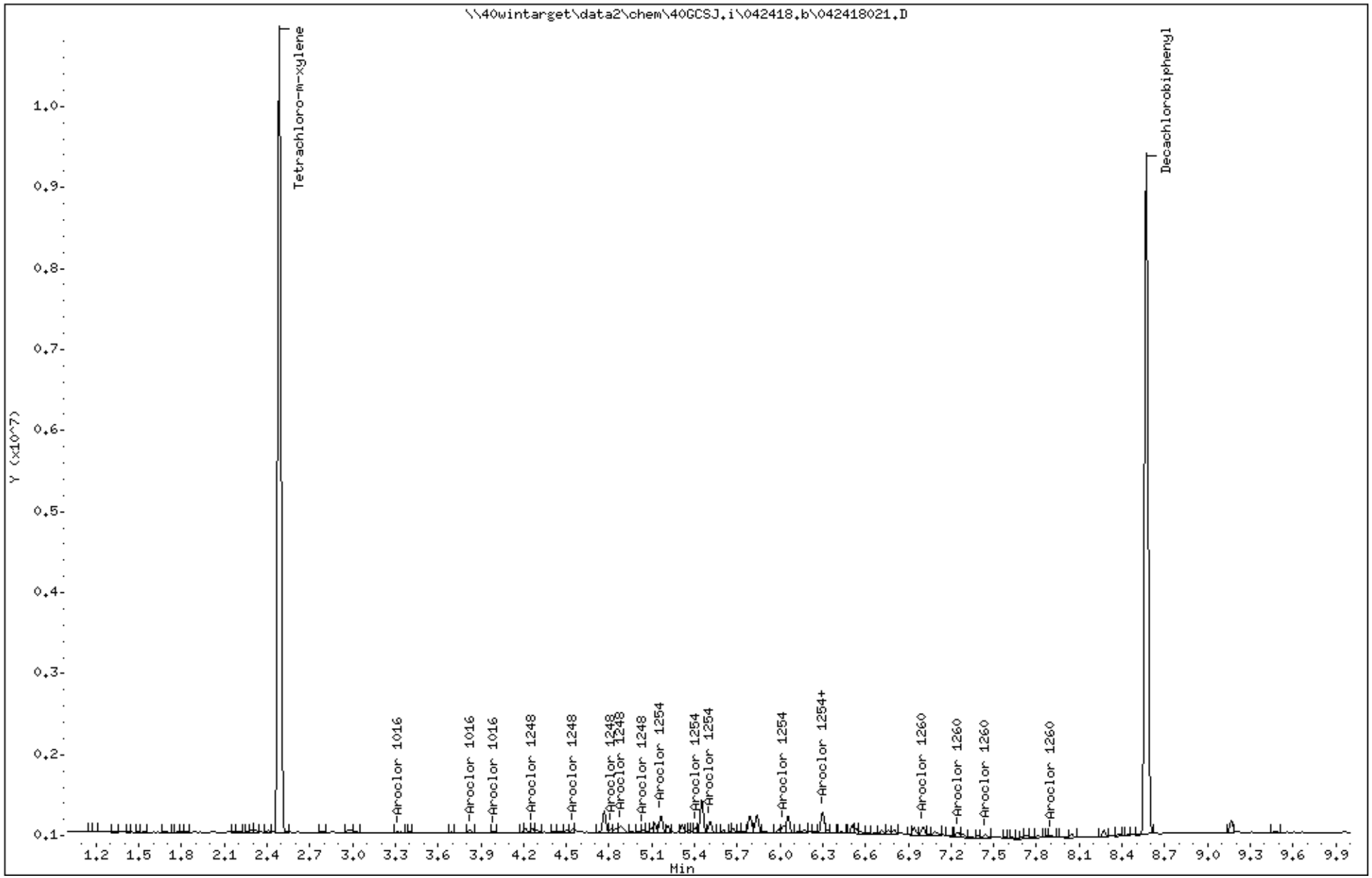
M - Compound response manually integrated.

Review Codes Legend

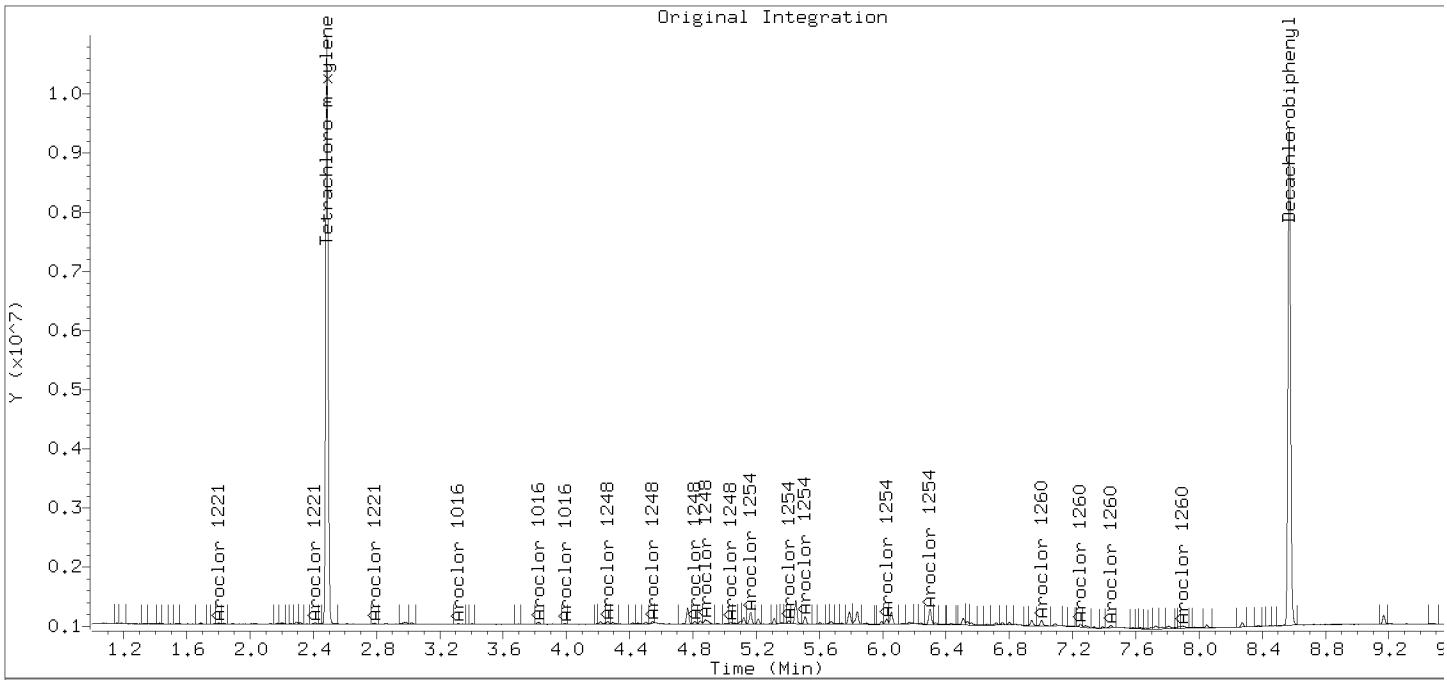
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

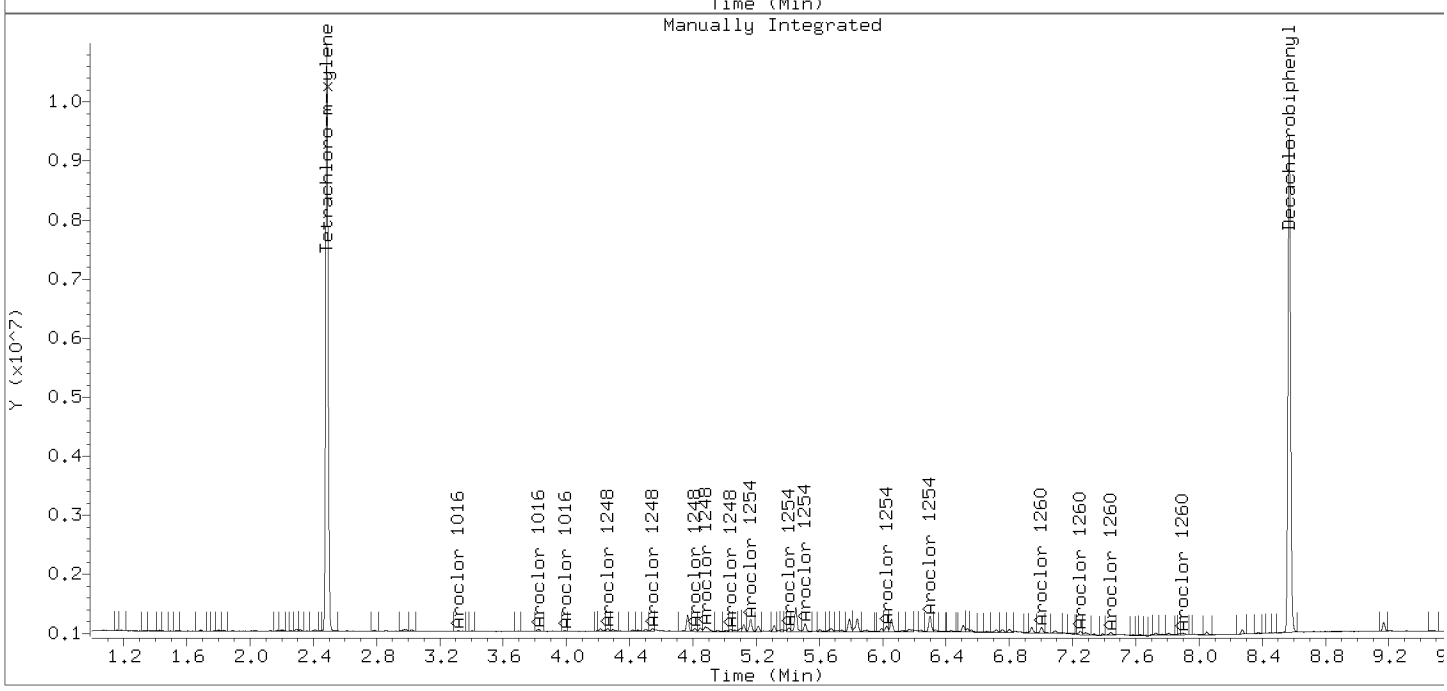
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418021.D
Date : 24-APR-2018 17:40
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010008,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 17:40 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010008





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	28530	0	
Aroclor 1221	28530	0	
Aroclor 1221	28530	0	
Aroclor 1221	28530	0	
Aroclor 1221	28530	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	54717	BA
Aroclor 1248	0	54717	BA
Aroclor 1248	0	54717	BA
Aroclor 1248	0	54717	BA
Aroclor 1248	0	54717	BA
Aroclor 1254	220443	236856	BA
Aroclor 1254	220443	236856	BA
Aroclor 1254	220443	236856	BA
Aroclor 1254	220443	236856	BA
Aroclor 1254	220443	236856	BA
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Tetrachloro-m-xylene	10566876	10566876	
Decachlorobiphenyl	9697052	9697052	

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SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010009
Date Analyzed: 04/24/2018 17:55
Lab File ID: 042418.B\042418022.D
Initial wt/vol: 10.0273 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)	27.4	J
11097-69-1	PCB-1254 (Aroclor 1254)	32.5	J
11096-82-5	PCB-1260 (Aroclor 1260)	16.0	J
1336-36-3	PCB, Total	76.0	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418022.D
Lab Smp Id: 40158010009 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 17:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010009,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.027	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.162	17573	18106	1.030	0.04		
1.538	12282	10435	0.850	0.03		
1.683	16250	10776	0.663	0.04		
1.769	39171	40241	1.027	0.11		
1.954	16284	12463	0.765	0.04		
2.065	9633	8483	0.881	0.02		
2.127	14888	11197	0.752	0.04		
2.172	15697	14417	0.918	0.04		
2.201	29016	18387	0.634	0.08		
2.296	25364	24456	0.964	0.07		
2.318	26033	24534	0.942	0.07		
2.357	9810	9189	0.937	0.02		
2.410	47379	44302	0.935	0.13		
2.485	11826251	11158492	0.944	33.87	$ 2 Tetrachloro-m-xylene	
2.615	12638	10034	0.794	0.03		
2.788	21434	19662	0.917	0.06		
2.853	11157	8369	0.750	0.03	4 Aroclor 1232	BA
2.975	47518	45984	0.968	0.13		
2.989	59999	54016	0.900	0.16		
3.020	33141	33152	1.000	0.09		
3.160	10012	6526	0.652	0.02		
3.318	22004	15919	0.723	0.06	3 Aroclor 1242	BA
3.345	10866	11924	1.097	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.396	13980	11507	0.823	0.03	
3.520	10185	8613	0.846	0.02	3 Aroclor 1242
3.692	11825	11390	0.963	0.03	
3.826	125692	83805	0.667	0.35	3 Aroclor 1242
3.930	27559	17864	0.648	0.07	3 Aroclor 1242
3.996	38612	27559	0.714	0.10	3 Aroclor 1242
4.052	28229	16811	0.596	0.07	
4.213	152305	122971	0.807	0.42	
4.261	137331	127427	0.928	0.38	6 Aroclor 1248
4.292	131845	88787	0.673	0.37	
4.349	26253	13687	0.521	0.07	
4.417	78163	63797	0.816	0.21	
4.452	67389	51267	0.761	0.18	
4.500	73995	49291	0.666	0.20	
4.545	150029	117909	0.786	0.42	6 Aroclor 1248
4.588	20554	17727	0.862	0.05	
4.615	18939	15154	0.800	0.05	
4.651	20766	14046	0.676	0.05	
4.736	28869	18902	0.655	0.08	
4.767	217400	198087	0.911	0.61	
4.813	136259	117936	0.866	0.38	6 Aroclor 1248
4.847	174100	162110	0.931	0.48	
4.880	392869	227598	0.579	1.10	6 Aroclor 1248
4.957	52318	43560	0.833	0.14	
5.003	33644	21552	0.641	0.09	
5.037	126526	115968	0.917	0.35	6 Aroclor 1248
5.059	35764	37013	1.035	0.10	
5.101	189917	113664	0.598	0.53	
5.162	318677	274145	0.860	0.89	7 Aroclor 1254
5.213	295352	256936	0.870	0.83	
5.282	36019	35461	0.984	0.10	
5.313	148975	135254	0.908	0.41	
5.361	104418	78526	0.752	0.29	
5.406	170115	151783	0.892	0.47	7 Aroclor 1254
5.450	1074650	1007345	0.937	3.02	
5.509	371442	307508	0.828	1.04	7 Aroclor 1254
5.576	31528	25074	0.795	0.08	
5.603	85835	68101	0.793	0.24	
5.675	158154	131778	0.833	0.44	
5.712	71110	48016	0.675	0.20	
5.739	99488	71233	0.716	0.28	
5.789	659495	546600	0.829	1.85	
5.821	111811	122745	1.098	0.31	
5.838	214632	199504	0.930	0.60	
5.899	107561	62450	0.581	0.30	
5.930	29934	25826	0.863	0.08	
5.992	135991	123523	0.908	0.38	
6.025	281747	247059	0.877	0.79	7 Aroclor 1254
6.055	533644	469828	0.880	1.50	
6.120	43553	28451	0.653	0.12	
6.168	183190	88171	0.481	0.51	
6.227	35104	38702	1.102	0.09	
6.241	86774	63719	0.734	0.24	
6.299	781015	652330	0.835	2.19	7 Aroclor 1254
6.332	85033	71609	0.842	0.23	
6.370	32889	24856	0.756	0.09	
6.431	84229	51396	0.610	0.23	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.508	289409	258784	0.894	0.81	
6.535	160350	144473	0.901	0.45	
6.558	103406	83111	0.804	0.29	
6.606	35689	22879	0.641	0.10	
6.660	51327	34798	0.678	0.14	
6.718	172500	132552	0.768	0.48	
6.758	148301	114750	0.774	0.41	
6.803	150585	113498	0.754	0.42	
6.839	85918	47460	0.552	0.24	
6.941	174521	137433	0.787	0.49	
7.003	261546	221791	0.848	0.73	8 Aroclor 1260
7.034	35846	35006	0.977	0.10	
7.054	34876	33651	0.965	0.09	
7.093	152596	61375	0.402	0.42	
7.248	158705	134863	0.850	0.44	8 Aroclor 1260
7.279	111195	66909	0.602	0.31	
7.338	51153	31489	0.616	0.14	
7.388	70358	68623	0.975	0.19	
7.442	127730	87763	0.687	0.35	8 Aroclor 1260
7.488	54292	30661	0.565	0.15	
7.530	50694	23979	0.473	0.14	
7.580	19170	17291	0.902	0.05	
7.627	25131	19631	0.781	0.07	
7.663	20430	23621	1.156	0.05	
7.696	22053	24900	1.129	0.06	
7.727	58009	38896	0.671	0.16	
7.761	51694	41104	0.795	0.14	
7.809	46834	30677	0.655	0.13	
7.873	16600	18688	1.126	0.04	
7.901	67569	47515	0.703	0.19	8 Aroclor 1260
7.952	62064	48790	0.786	0.17	
8.047	61276	57278	0.935	0.17	
8.072	15410	17819	1.156	0.04	
8.273	98827	86627	0.877	0.27	
8.316	13731	12629	0.920	0.03	
8.374	105380	74334	0.705	0.29	
8.445	46196	38623	0.836	0.13	
8.481	36131	30298	0.839	0.10	
8.569	10331084	9247256	0.895	29.07	$ 12 Decachlorobiphenyl
8.643	31858	27084	0.850	0.08	
8.719	28971	21529	0.743	0.08	
9.166	584515	539506	0.923	1.64	
9.213	45748	29376	0.642	0.12	
9.478	33072	22954	0.694	0.09	
	35530835	31337269		100.000	

Total unknown % area = 27

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418022.D
Lab Smp Id: 40158010009 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 17:55
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010009,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.027	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	11826251	0.09592	48			
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA
4 Aroclor 1232					CAS #: 1114-16-5			
Qualifier signal(s) failed ratio test.								BA

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	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	137330	0.05861	29	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	150029	0.03615	18	0.00- 20.00	109.25	CO
4.812	4.812	0.000	136259	0.06712	33	0.00- 20.00	99.22	CO
4.879	4.879	0.000	392869	0.07799	39	0.00- 20.00	286.08	CO
5.037	5.038	-0.001	126526	0.03526	18	0.00- 20.00	92.13	CO
Average of Peak Concentrations =					27			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	318677	0.06087	30	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	170114	0.03955	20	0.00- 20.00	53.38	BA
5.508	5.510	-0.002	371442	0.04783	24	0.00- 20.00	116.56	BA
6.025	6.027	-0.002	281746	0.05786	29	0.00- 20.00	88.41	BA
6.298	6.299	-0.001	781015	0.12002	60	0.00- 20.00	245.08	BA
Average of Peak Concentrations =					32			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.003	7.006	-0.003	261546	0.02612	13	0.00- 20.00	38.00	CO
7.248	7.251	-0.003	158705	0.03320	16	0.00- 20.00	20.32	CO
7.441	7.443	-0.002	127729	0.04382	22	0.00- 20.00	16.35	CO
7.900	7.901	-0.001	67568	0.02561	13	0.00- 20.00	8.65	CO
Average of Peak Concentrations =					16			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10331084	0.09430	47			

QC Flag Legend

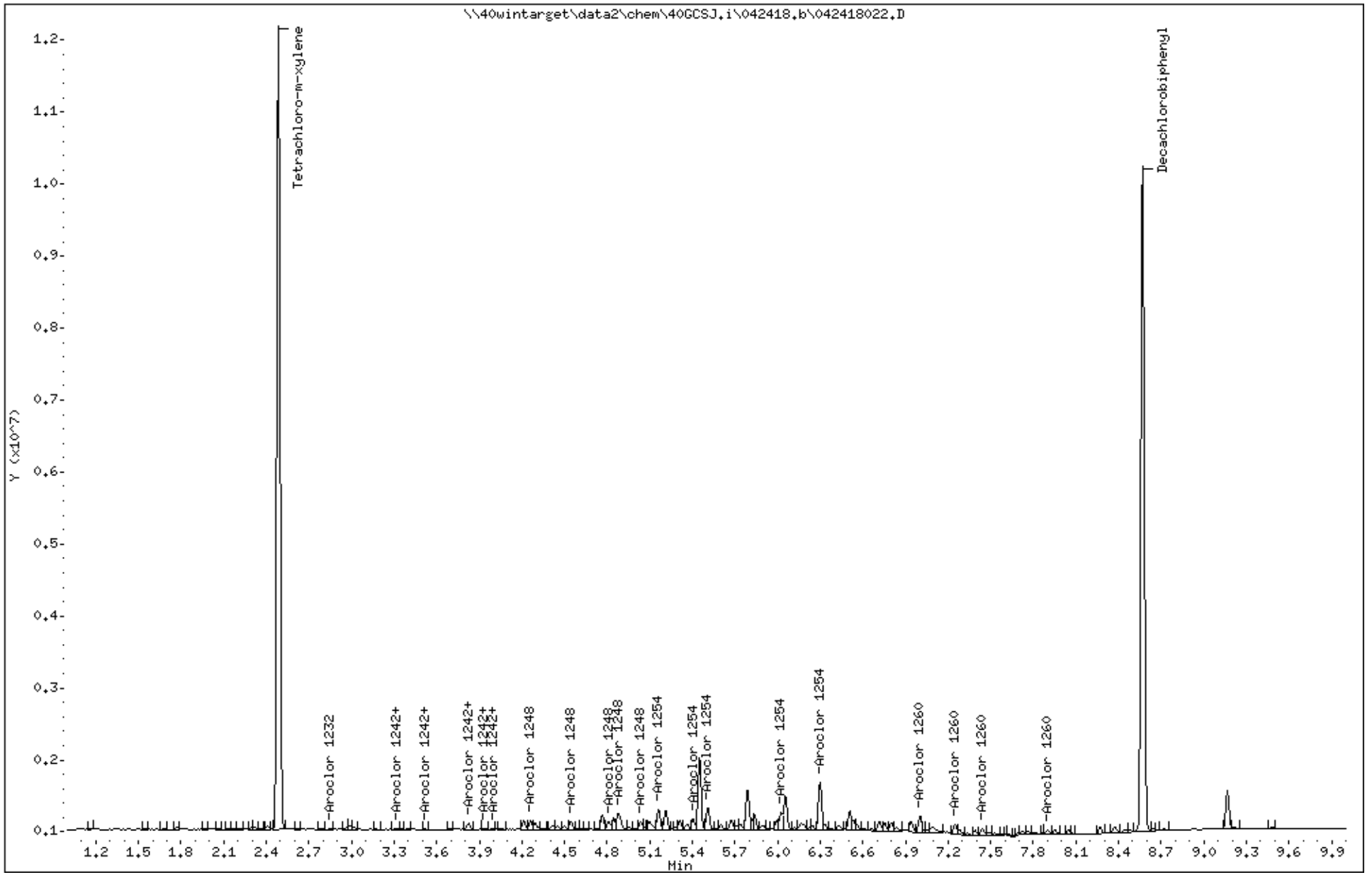
M - Compound response manually integrated.

Review Codes Legend

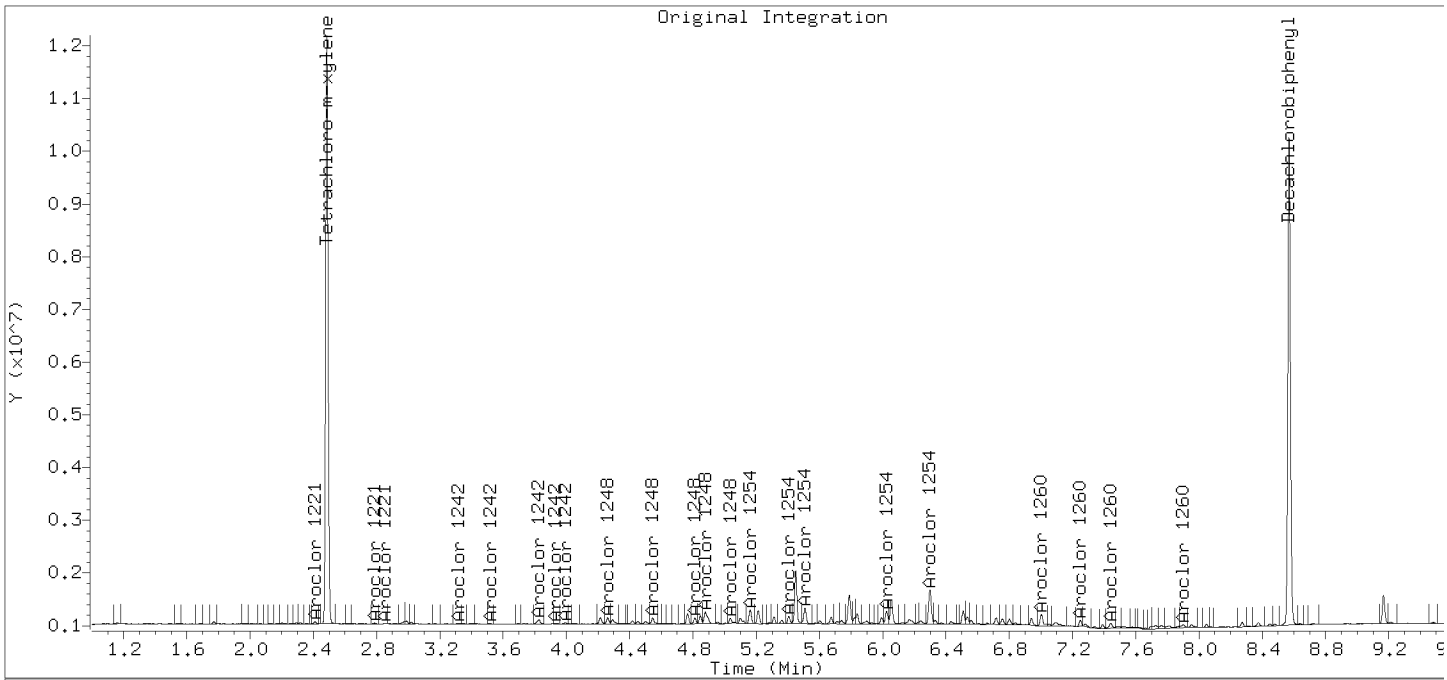
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

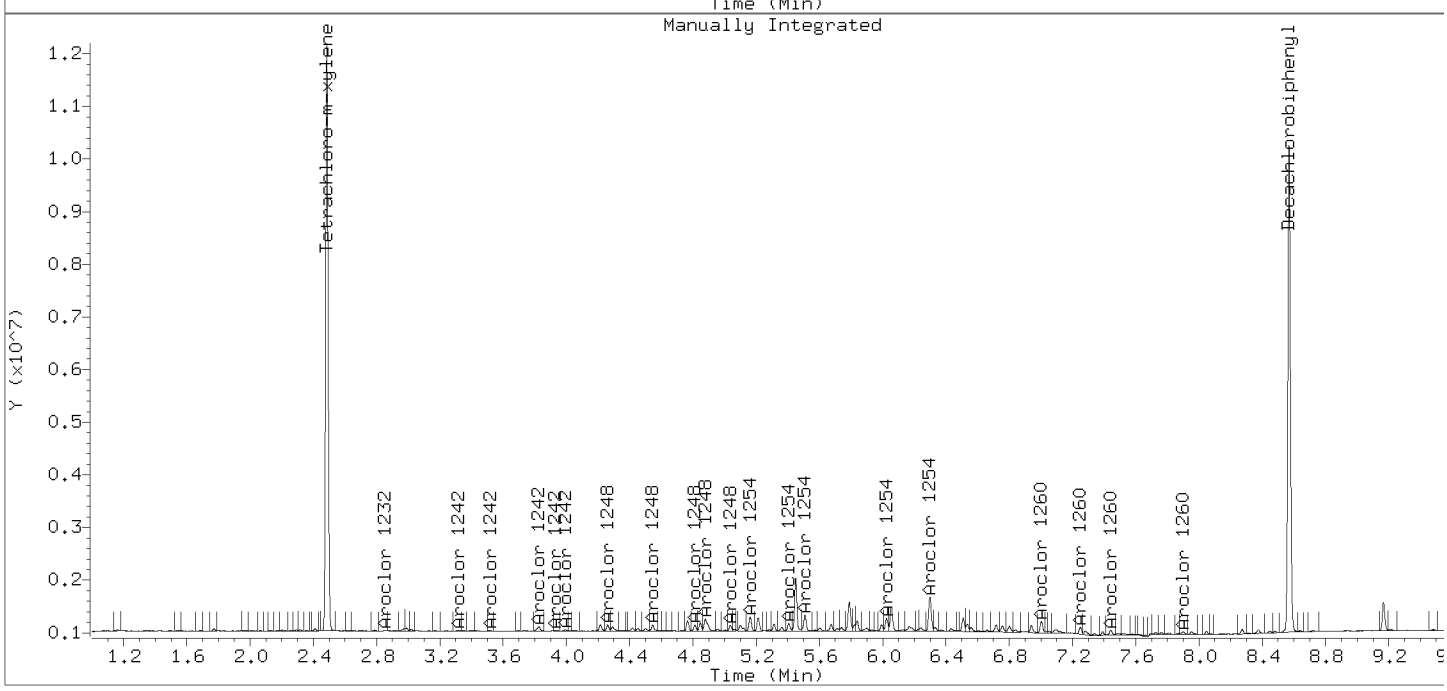
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418022.D
Date : 24-APR-2018 17:55
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010009,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 17:55 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010009





Manually Integrated Compounds

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

Aroclor 1232	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	130130	137330	CO
Aroclor 1248	130130	137330	CO
Aroclor 1248	130130	137330	CO
Aroclor 1248	130130	137330	CO
Aroclor 1248	130130	137330	CO
Aroclor 1254	288355	318677	BA
Aroclor 1254	288355	318677	BA
Aroclor 1254	288355	318677	BA
Aroclor 1254	288355	318677	BA
Aroclor 1254	288355	318677	BA
Aroclor 1260	780883	0	CO
Aroclor 1260	780883	0	CO
Aroclor 1260	780883	0	CO
Aroclor 1260	780883	0	CO
Aroclor 1260	780883	0	CO
Tetrachloro-m-xylene	11826251	11826251	
Decachlorobiphenyl	10331084	10331084	

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SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010010
Date Analyzed: 04/24/2018 18:11
Lab File ID: 042418.B\042418023.D
Initial wt/vol: 8.1412 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)	<14.0	U
11104-28-2	PCB-1221 (Aroclor 1221)	<14.0	U
11141-16-5	PCB-1232 (Aroclor 1232)	<14.0	U
53469-21-9	PCB-1242 (Aroclor 1242)	<14.0	U
12672-29-6	PCB-1248 (Aroclor 1248)	30.1	J
11097-69-1	PCB-1254 (Aroclor 1254)	22.8	J
11096-82-5	PCB-1260 (Aroclor 1260)	24.1	J
1336-36-3	PCB, Total	77.0	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418023.D
Lab Smp Id: 40158010010 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 18:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010010,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	8.141	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.071	11790	9004	0.764	0.03		
1.159	24404	21626	0.886	0.07		
1.332	10752	9130	0.849	0.03		
1.425	14088	12256	0.870	0.04		
1.688	26511	19707	0.743	0.08		
1.770	28210	24973	0.885	0.08		
1.799	20851	19004	0.911	0.06		
1.835	18267	16000	0.876	0.05		
1.951	9338	8896	0.953	0.02		
2.131	30248	18052	0.597	0.09		
2.172	28415	27912	0.982	0.08		
2.211	22918	16270	0.710	0.07		
2.291	32319	31589	0.977	0.09		
2.317	40082	40610	1.013	0.12		
2.411	55443	44926	0.810	0.17		
2.445	11563	10380	0.898	0.03		
2.485	11244170	10588218	0.942	35.33	$ 2 Tetrachloro-m-xylene	
2.550	17805	12647	0.710	0.05		
2.789	23785	19107	0.803	0.07		
2.975	94330	38534	0.409	0.29		
3.019	33250	32674	0.983	0.10		
3.055	17130	12856	0.750	0.05		
3.162	12742	7906	0.620	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.319	23318	19162	0.822	0.07	3 Aroclor 1242
3.346	21611	18990	0.879	0.06	
3.401	35223	24202	0.687	0.10	
3.434	24262	17039	0.702	0.07	
3.519	22895	18944	0.827	0.07	3 Aroclor 1242
3.697	23990	22632	0.943	0.07	
3.733	22796	15009	0.658	0.07	
3.827	134657	88002	0.654	0.41	3 Aroclor 1242
3.935	33296	20494	0.616	0.10	3 Aroclor 1242
3.994	40762	31480	0.772	0.12	3 Aroclor 1242
4.053	21096	14499	0.687	0.06	
4.214	165136	129040	0.781	0.50	
4.262	151348	138508	0.915	0.46	6 Aroclor 1248
4.291	143594	111665	0.778	0.44	
4.350	19927	11068	0.555	0.06	
4.417	63111	58640	0.929	0.19	
4.453	63558	51007	0.803	0.19	
4.506	87497	70338	0.804	0.26	
4.546	144703	122196	0.844	0.44	6 Aroclor 1248
4.677	13178	10715	0.813	0.04	
4.738	18581	15857	0.853	0.05	
4.767	209106	200281	0.958	0.64	
4.812	112017	102083	0.911	0.34	6 Aroclor 1248
4.848	140133	127435	0.909	0.43	
4.878	303895	188626	0.621	0.93	6 Aroclor 1248
4.955	46331	36867	0.796	0.14	
5.001	22744	16078	0.707	0.07	
5.035	106932	98389	0.920	0.32	6 Aroclor 1248
5.060	27840	25114	0.902	0.08	
5.100	153726	94116	0.612	0.47	
5.163	245265	209906	0.856	0.75	7 Aroclor 1254
5.212	217841	189885	0.872	0.67	
5.281	26952	25517	0.947	0.08	
5.313	100035	93972	0.939	0.30	
5.362	84278	60959	0.723	0.26	
5.407	121260	111690	0.921	0.37	7 Aroclor 1254
5.451	792393	733844	0.926	2.44	
5.509	268823	235681	0.877	0.82	7 Aroclor 1254
5.573	25095	17967	0.716	0.07	
5.603	61839	50198	0.812	0.19	
5.674	112024	92390	0.825	0.34	
5.713	55207	36943	0.669	0.17	
5.739	66018	51669	0.783	0.20	
5.789	460281	378016	0.821	1.42	
5.823	67722	91752	1.355	0.20	
5.838	192616	162220	0.842	0.59	
5.900	74994	41210	0.550	0.23	
5.930	25729	21440	0.833	0.07	
5.994	117858	103278	0.876	0.36	
6.024	190140	167861	0.883	0.58	7 Aroclor 1254
6.056	427594	363069	0.849	1.31	
6.119	31574	19884	0.630	0.09	
6.168	129420	68918	0.533	0.39	
6.243	87981	47312	0.538	0.27	
6.299	580801	501323	0.863	1.79	8 Aroclor 1260
6.332	64717	58215	0.900	0.19	
6.371	30904	20684	0.669	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.431	74120	40849	0.551	0.22	
6.510	219112	185844	0.848	0.67	
6.533	114589	107163	0.935	0.35	
6.561	86393	70754	0.819	0.26	
6.606	20564	14879	0.724	0.06	
6.660	28555	23131	0.810	0.08	
6.717	99140	78229	0.789	0.30	
6.757	99863	80864	0.810	0.30	
6.801	106182	84519	0.796	0.32	
6.840	51835	32018	0.618	0.15	
6.942	131893	110317	0.836	0.40	
7.004	245191	209991	0.856	0.75	8 Aroclor 1260
7.029	18659	23110	1.239	0.05	
7.054	12331	16103	1.306	0.03	
7.094	100554	43597	0.434	0.31	
7.250	154293	130144	0.843	0.47	8 Aroclor 1260
7.281	106690	63438	0.595	0.32	
7.342	58044	33359	0.575	0.17	
7.392	57600	56171	0.975	0.17	
7.442	116106	86682	0.747	0.35	8 Aroclor 1260
7.486	56804	29878	0.526	0.17	
7.527	60766	29092	0.479	0.18	
7.579	23004	15994	0.695	0.07	
7.622	27137	23562	0.868	0.08	
7.662	20320	24575	1.209	0.06	
7.694	31586	30856	0.977	0.09	
7.727	55843	38612	0.691	0.17	
7.762	53860	37365	0.694	0.16	
7.810	53822	31953	0.594	0.16	
7.875	26044	24884	0.955	0.08	
7.900	89915	53730	0.598	0.27	8 Aroclor 1260
7.954	81208	50520	0.622	0.25	
8.049	50203	43633	0.869	0.15	
8.274	96636	85573	0.886	0.29	
8.316	11935	12677	1.062	0.03	
8.375	106842	81529	0.763	0.32	
8.447	39338	35640	0.906	0.12	
8.478	38103	33141	0.870	0.11	
8.570	9778699	8519051	0.871	30.16	$ 12 Decachlorobiphenyl
8.638	50378	28833	0.572	0.15	
8.717	21354	18930	0.886	0.06	
9.167	797840	734999	0.921	2.46	
9.209	35042	23018	0.657	0.10	
9.479	19562	14656	0.749	0.06	
	32412986	28410419		100.000	

Total unknown % area = 25

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418023.D
Lab Smp Id: 40158010010 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 18:11
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010010,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	8.141	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	11244169	0.09120	56			
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA
4 Aroclor 1232					CAS #: 1114-16-5			
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	151348	0.06460	40	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	144702	0.03487	21	0.00- 20.00	95.61	CO
4.812	4.812	0.000	112017	0.05518	34	0.00- 20.00	74.01	CO
4.878	4.879	-0.001	303895	0.06033	37	0.00- 20.00	200.79	CO
5.035	5.038	-0.003	106931	0.02980	18	0.00- 20.00	70.65	CO
Average of Peak Concentrations =					30			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	245264	0.04685	29	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	121259	0.02819	17	0.00- 20.00	49.44	BA
5.508	5.510	-0.002	268822	0.03461	21	0.00- 20.00	109.61	BA
6.023	6.027	-0.004	190139	0.03905	24	0.00- 20.00	77.52	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					23			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	580800	0.06554	40	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	245191	0.02448	15	0.00- 20.00	42.22	CO
7.249	7.251	-0.002	154293	0.03228	20	0.00- 20.00	26.57	CO
7.442	7.443	-0.001	116105	0.03983	24	0.00- 20.00	19.99	CO
7.899	7.901	-0.002	89914	0.03407	21	0.00- 20.00	15.48	CO
Average of Peak Concentrations =					24			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9778698	0.08925	55			

QC Flag Legend

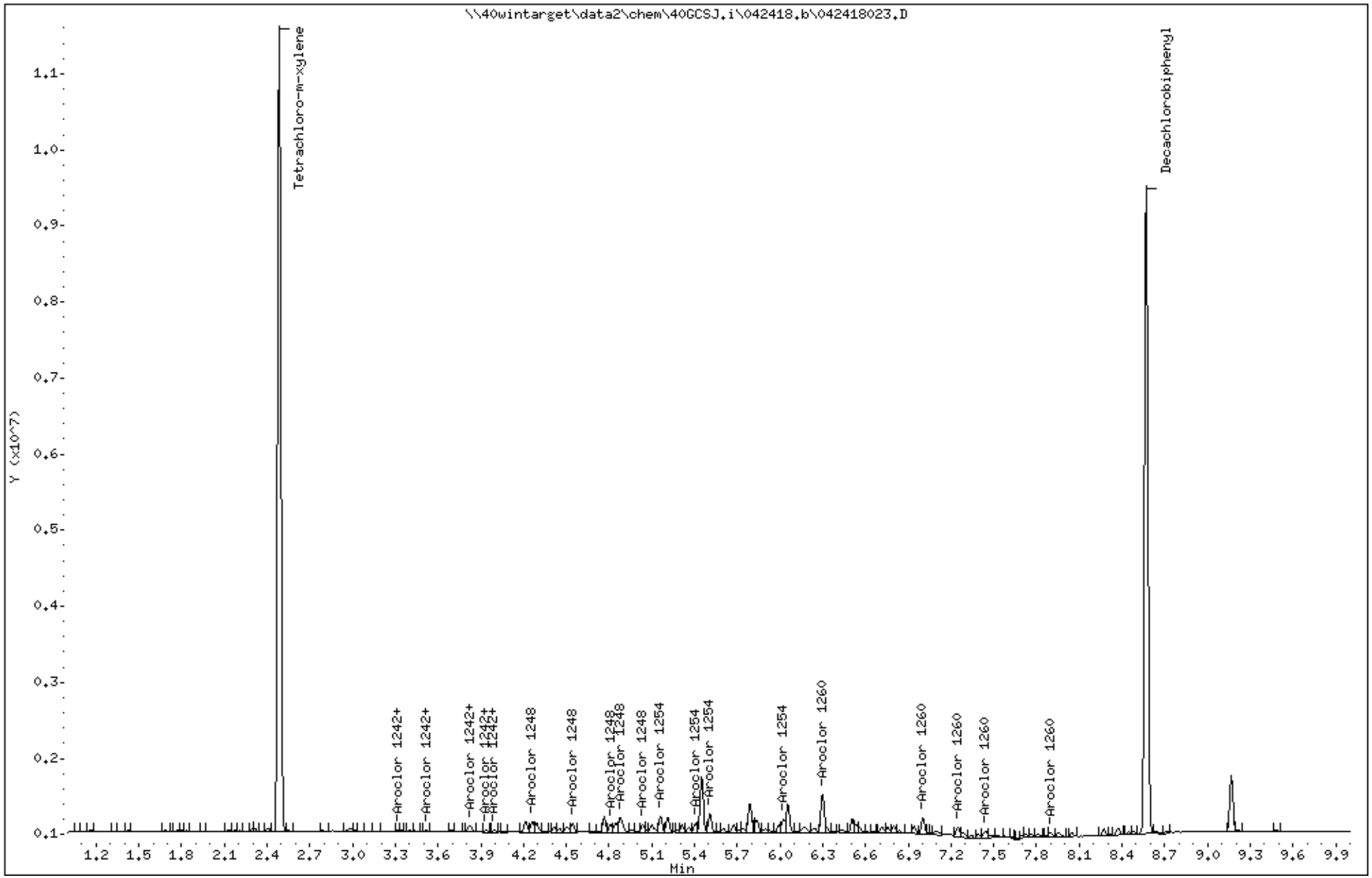
M - Compound response manually integrated.

Review Codes Legend

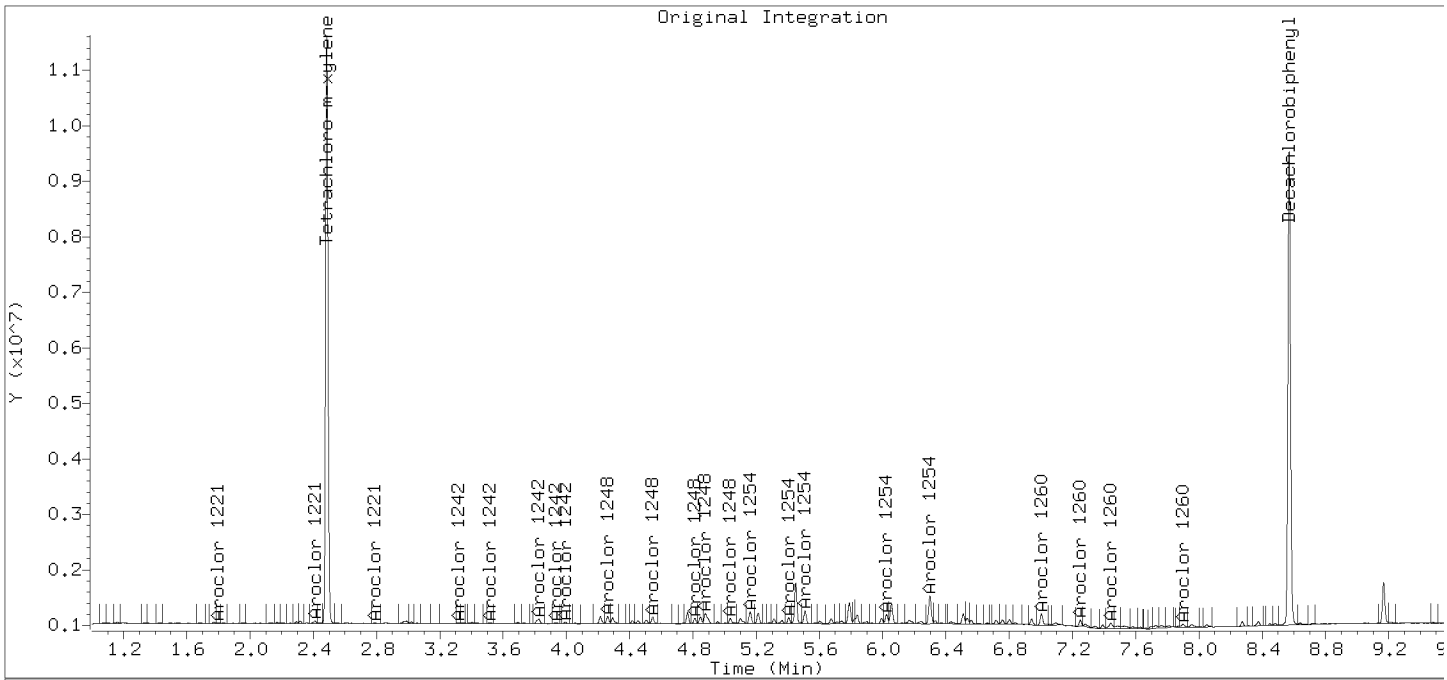
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

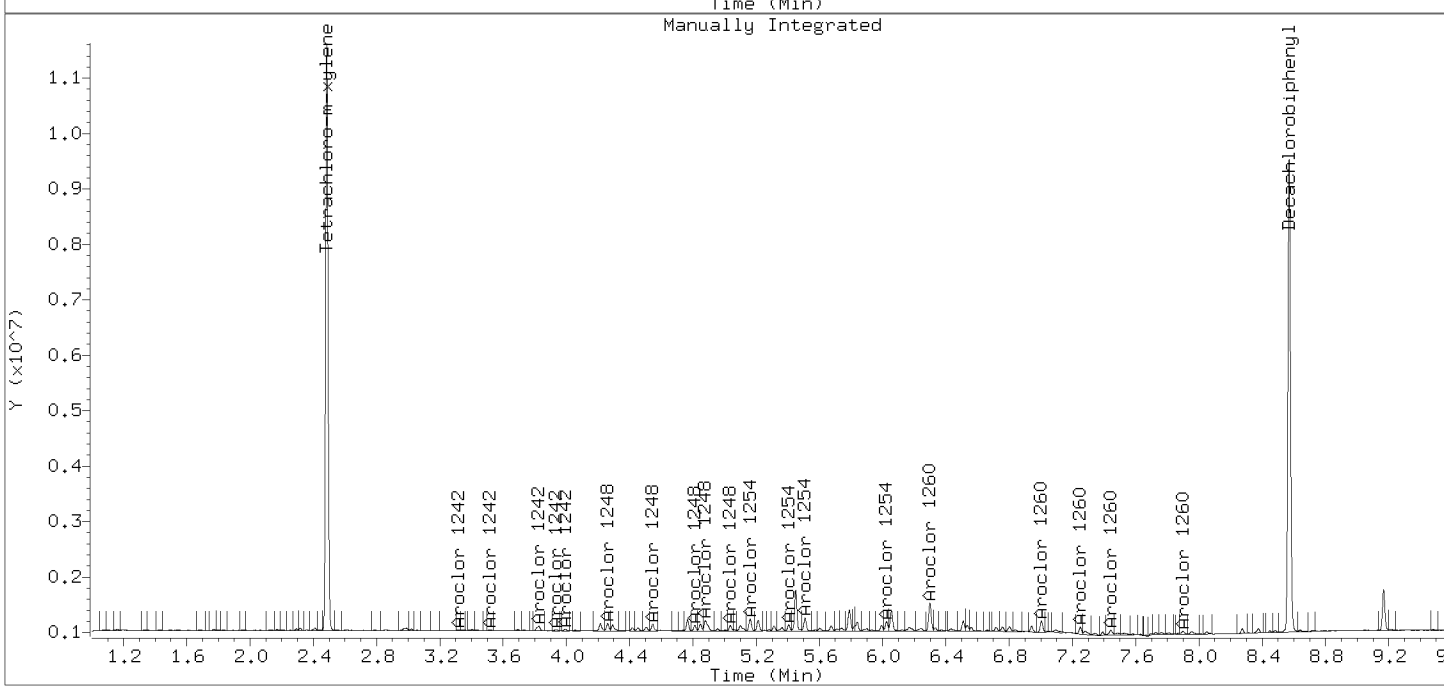
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418023.D
Date : 24-APR-2018 18:11
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010010,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 18:11 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010010





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	20850	0	
Aroclor 1221	20850	0	
Aroclor 1221	20850	0	
Aroclor 1221	20850	0	
Aroclor 1221	20850	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	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	146226	151348	CO
Aroclor 1248	146226	151348	CO
Aroclor 1248	146226	151348	CO
Aroclor 1248	146226	151348	CO
Aroclor 1248	146226	151348	CO
Aroclor 1254	231996	245264	BA
Aroclor 1254	231996	245264	BA
Aroclor 1254	231996	245264	BA
Aroclor 1254	231996	245264	BA
Aroclor 1254	231996	245264	BA
Aroclor 1260	576136	580800	CO
Aroclor 1260	576136	580800	CO
Aroclor 1260	576136	580800	CO
Aroclor 1260	576136	580800	CO
Aroclor 1260	576136	580800	CO
Tetrachloro-m-xylene	11244169	11244169	
Decachlorobiphenyl	9778698	9778698	

==========

SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010011
Date Analyzed: 04/24/2018 18:27
Lab File ID: 042418.B\042418024.D
Initial wt/vol: 7.0353 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)	<16.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<16.2	U
11141-16-5	PCB-1232 (Aroclor 1232)	<16.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	<16.2	U
12672-29-6	PCB-1248 (Aroclor 1248)	28.1	J
11097-69-1	PCB-1254 (Aroclor 1254)	23.2	J
11096-82-5	PCB-1260 (Aroclor 1260)	23.1	J
1336-36-3	PCB, Total	74.4	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418024.D
Lab Smp Id: 40158010011 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 18:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010011,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	7.035	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.028	14916	10750	0.721	0.04		
1.074	11416	9488	0.831	0.03		
1.102	11816	8540	0.723	0.03		
1.159	17267	17748	1.028	0.05		
1.429	15532	10656	0.686	0.04		
1.537	9805	9209	0.939	0.02		
1.683	12815	12483	0.974	0.03		
1.769	34603	34531	0.998	0.10		
1.803	11172	11549	1.034	0.03		
1.833	15011	9886	0.659	0.04		
1.953	10733	9988	0.931	0.03		
2.172	12858	13662	1.063	0.03		
2.202	34745	20932	0.602	0.10		
2.294	16926	17082	1.009	0.05		
2.314	18819	17249	0.917	0.05		
2.409	44169	38523	0.872	0.13		
2.485	12391908	11657042	0.941	37.62	$ 2 Tetrachloro-m-xylene	
2.788	22600	21888	0.968	0.06		
2.858	37448	19364	0.517	0.11	4 Aroclor 1232	BA
2.974	38352	35035	0.914	0.11		
2.989	44795	42790	0.955	0.13		
3.019	27907	28727	1.029	0.08		
3.317	20012	16010	0.800	0.05	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.347	11846	12456	1.051	0.03	
3.433	9821	11408	1.162	0.02	
3.516	17525	13306	0.759	0.05	3 Aroclor 1242
3.825	125558	81155	0.646	0.37	3 Aroclor 1242
3.913	10528	11194	1.063	0.03	
3.933	22500	17158	0.763	0.06	3 Aroclor 1242
3.993	38946	27346	0.702	0.11	3 Aroclor 1242
4.052	20818	11485	0.552	0.06	
4.215	131636	98029	0.745	0.39	
4.261	111759	103247	0.924	0.33	6 Aroclor 1248
4.292	110520	75642	0.684	0.33	
4.418	55906	46413	0.830	0.16	
4.453	49683	38590	0.777	0.14	
4.504	74941	50406	0.673	0.22	
4.544	124455	92160	0.741	0.37	6 Aroclor 1248
4.729	15099	14410	0.954	0.04	
4.766	295175	285291	0.967	0.88	
4.812	93175	81783	0.878	0.27	6 Aroclor 1248
4.847	117912	108015	0.916	0.35	
4.878	258638	151532	0.586	0.77	6 Aroclor 1248
4.957	40509	29139	0.719	0.12	
5.001	27513	21565	0.784	0.08	
5.036	82869	79771	0.963	0.24	6 Aroclor 1248
5.060	24301	26463	1.089	0.07	
5.100	86322	76050	0.881	0.25	
5.121	77538	71643	0.924	0.23	
5.163	238794	207595	0.869	0.71	7 Aroclor 1254
5.213	189827	165587	0.872	0.56	
5.281	24019	20743	0.864	0.07	
5.314	119550	114273	0.956	0.35	
5.362	73651	49387	0.671	0.21	
5.406	99970	88729	0.888	0.29	7 Aroclor 1254
5.451	724381	694983	0.959	2.16	
5.509	227348	188261	0.828	0.67	7 Aroclor 1254
5.569	22702	18202	0.802	0.06	
5.601	63823	51390	0.805	0.19	
5.675	106449	86218	0.810	0.31	
5.708	54047	32933	0.609	0.16	
5.739	57971	44386	0.766	0.17	
5.789	395811	328074	0.829	1.18	
5.839	351594	256338	0.729	1.04	
5.899	66002	38894	0.589	0.19	
5.928	19396	17385	0.896	0.05	
5.993	96294	90179	0.936	0.28	
6.025	157982	134592	0.852	0.47	7 Aroclor 1254
6.055	382415	332446	0.869	1.14	
6.120	18178	16245	0.894	0.05	
6.167	112444	59552	0.530	0.33	
6.229	18496	26938	1.456	0.05	
6.242	54637	43051	0.788	0.16	
6.298	490250	411980	0.840	1.46	8 Aroclor 1260
6.333	55190	47781	0.866	0.16	
6.372	18110	17467	0.965	0.05	
6.432	54570	34188	0.626	0.16	
6.509	200359	174688	0.872	0.59	
6.534	96505	93746	0.971	0.28	
6.557	72076	61267	0.850	0.21	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.604	18149	14253	0.785	0.05	
6.660	26438	19865	0.751	0.07	
6.717	87115	68895	0.791	0.26	
6.758	95387	72300	0.758	0.28	
6.801	93668	72911	0.778	0.27	
6.837	38827	27703	0.713	0.11	
6.909	8692	8358	0.962	0.02	
6.941	111138	96828	0.871	0.33	
7.003	190606	172507	0.905	0.56	8 Aroclor 1260
7.032	16690	17444	1.045	0.04	
7.053	13543	15582	1.151	0.04	
7.094	70994	32912	0.464	0.21	
7.249	116795	100851	0.863	0.34	8 Aroclor 1260
7.279	79191	48044	0.607	0.23	
7.338	40520	25886	0.639	0.12	
7.388	58822	58342	0.992	0.17	
7.442	122845	78324	0.638	0.36	8 Aroclor 1260
7.486	57911	34257	0.592	0.17	
7.526	58506	27440	0.469	0.17	
7.580	15888	14618	0.920	0.04	
7.626	42634	24886	0.584	0.12	
7.662	17660	19759	1.119	0.05	
7.693	29053	17104	0.589	0.08	
7.725	52320	36652	0.701	0.15	
7.763	35763	29408	0.822	0.10	
7.810	44136	25050	0.568	0.13	
7.871	10727	12140	1.132	0.03	
7.900	56492	40952	0.725	0.16	8 Aroclor 1260
7.951	52980	38215	0.721	0.15	
8.048	46335	41472	0.895	0.13	
8.074	25047	23225	0.927	0.07	
8.274	102057	92152	0.903	0.30	
8.316	16943	13657	0.806	0.05	
8.375	110284	75373	0.683	0.32	
8.448	46274	33636	0.727	0.13	
8.480	44121	32748	0.742	0.13	
8.570	10983043	9536748	0.868	32.79	$ 12 Decachlorobiphenyl
8.640	47223	29681	0.629	0.14	
8.719	35577	20236	0.569	0.10	
9.167	722550	645775	0.894	2.15	
9.209	32426	22877	0.706	0.09	
9.478	25175	18043	0.717	0.07	
9.655	10791	7545	0.699	0.03	
	33485300	29500941		100.000	

Total unknown % area = 22

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418024.D
Lab Smp Id: 40158010011 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 18:27
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010011,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	7.035	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	12391907	0.10051	71			
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA
4 Aroclor 1232					CAS #: 1114-16-5			
Qualifier signal(s) failed ratio test.								BA

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	111759	0.04770	34	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	124455	0.02999	21	0.00- 20.00	111.36	CO
4.811	4.812	-0.001	93175	0.04590	33	0.00- 20.00	83.37	CO
4.878	4.879	-0.001	258637	0.05134	36	0.00- 20.00	231.42	CO
5.036	5.038	-0.002	82868	0.02309	16	0.00- 20.00	74.15	CO
Average of Peak Concentrations =					28			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	238793	0.04561	32	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	99970	0.02324	16	0.00- 20.00	41.86	BA
5.509	5.510	-0.001	227348	0.02927	21	0.00- 20.00	95.21	BA
6.025	6.027	-0.002	157982	0.03244	23	0.00- 20.00	66.16	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					23			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	490250	0.05532	39	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	190605	0.01903	14	0.00- 20.00	38.88	BA
7.249	7.251	-0.002	116794	0.02443	17	0.00- 20.00	23.82	BA
7.441	7.443	-0.002	122845	0.04214	30	0.00- 20.00	25.06	BA
7.899	7.901	-0.002	56491	0.02141	15	0.00- 20.00	11.52	BA
Average of Peak Concentrations =					23			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10983042	0.10025	71			

QC Flag Legend

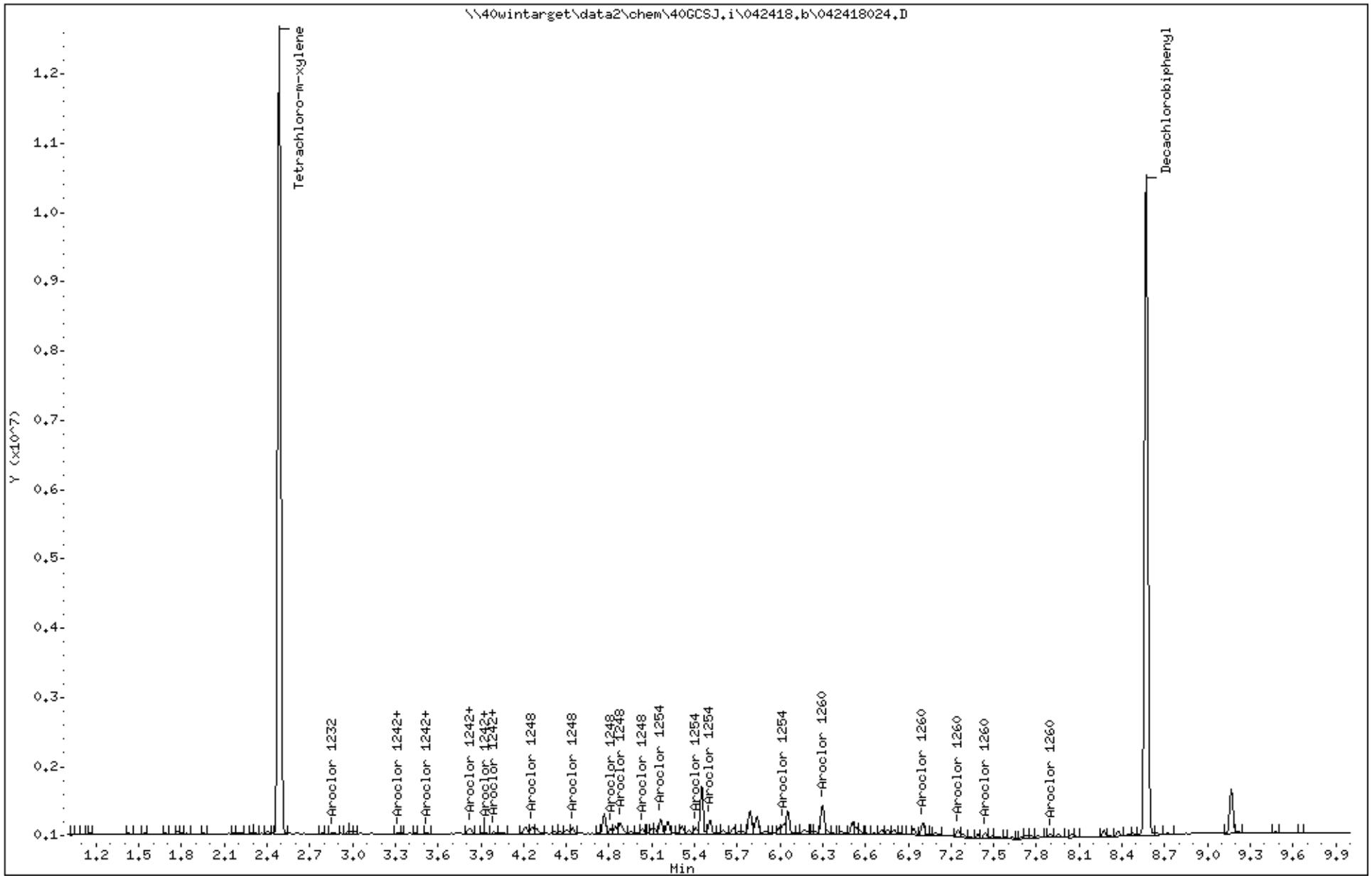
M - Compound response manually integrated.

Review Codes Legend

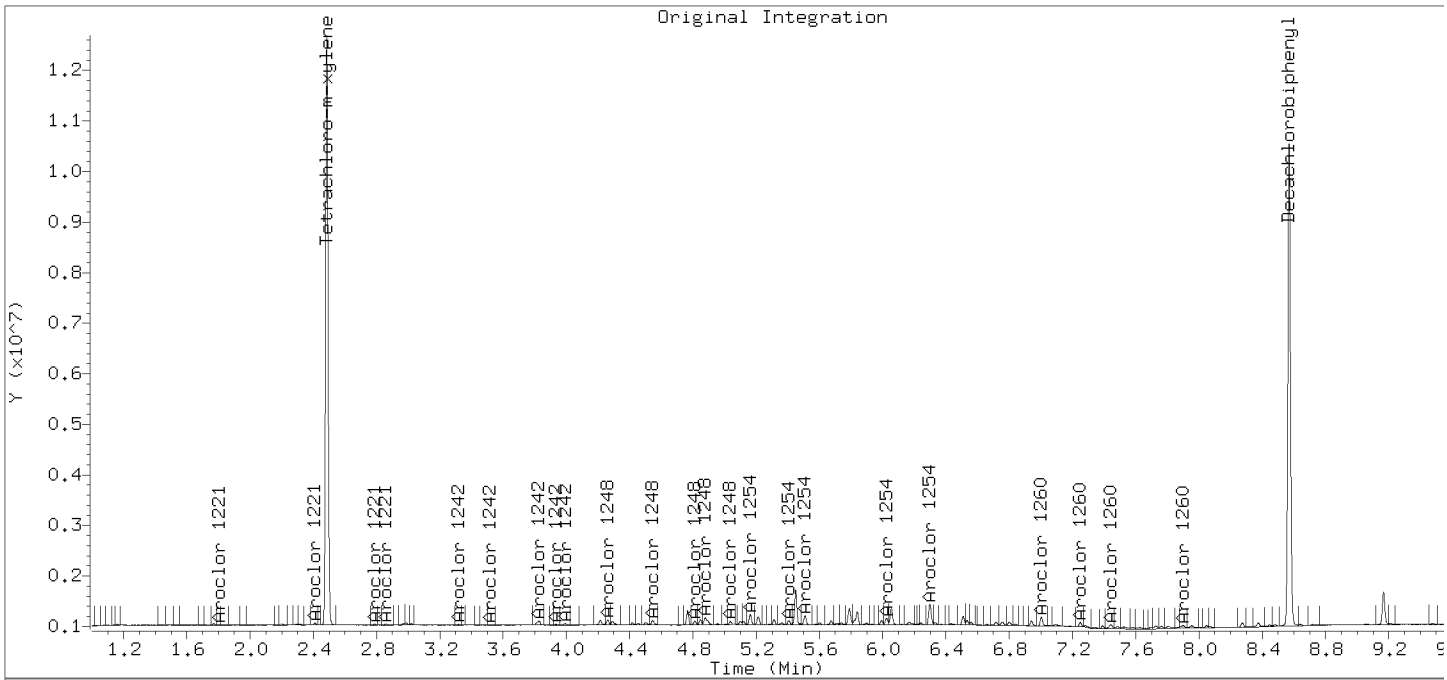
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

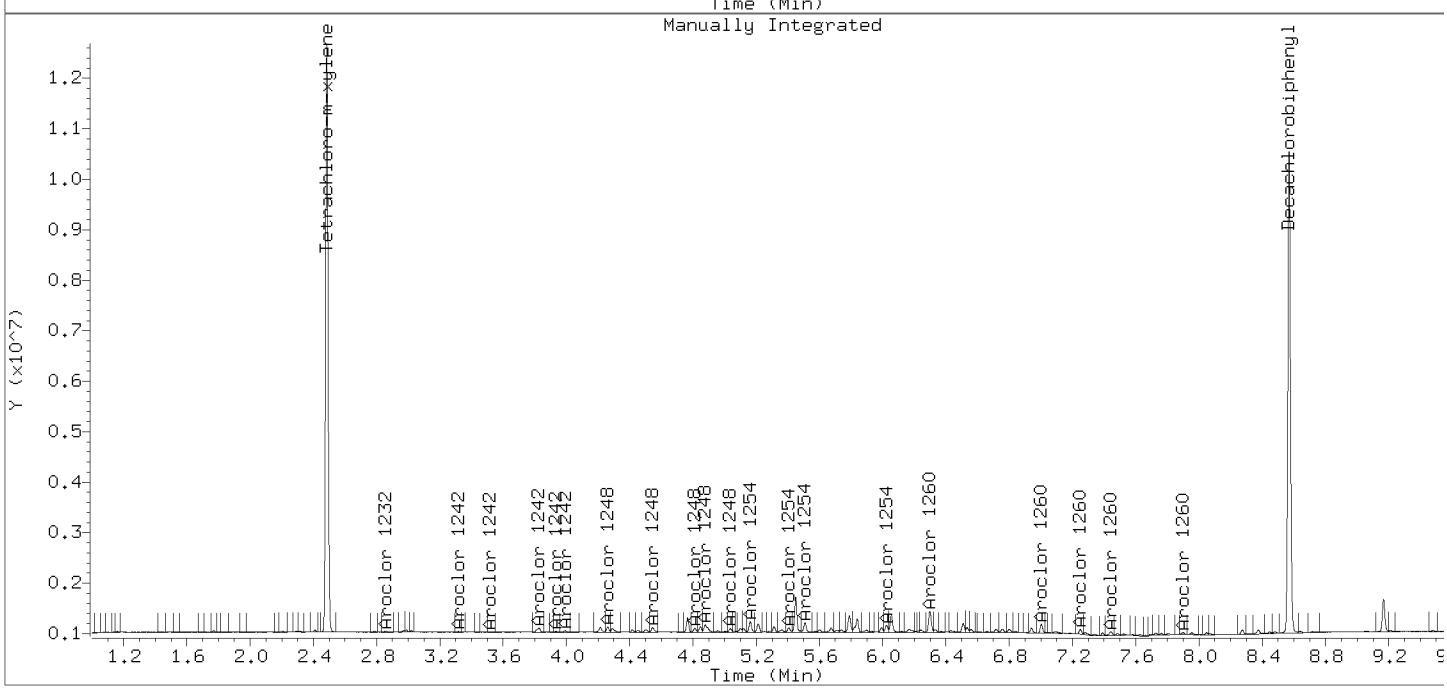
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418024.D
Date : 24-APR-2018 18:27
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010011,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 18:27 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010011





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	11172	0	
Aroclor 1221	11172	0	
Aroclor 1221	11172	0	
Aroclor 1221	11172	0	
Aroclor 1221	11172	0	
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA

Aroclor 1232	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	105420	111759	CO
Aroclor 1248	105420	111759	CO
Aroclor 1248	105420	111759	CO
Aroclor 1248	105420	111759	CO
Aroclor 1248	105420	111759	CO
Aroclor 1254	220311	238793	BA
Aroclor 1254	220311	238793	BA
Aroclor 1254	220311	238793	BA
Aroclor 1254	220311	238793	BA
Aroclor 1254	220311	238793	BA
Aroclor 1260	486766	490250	BA
Aroclor 1260	486766	490250	BA
Aroclor 1260	486766	490250	BA
Aroclor 1260	486766	490250	BA
Aroclor 1260	486766	490250	BA
Tetrachloro-m-xylene	12391907	12391907	
Decachlorobiphenyl	10983042	10983042	

==========

SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010012
Date Analyzed: 04/24/2018 18:43
Lab File ID: 042418.B\042418025.D
Initial wt/vol: 9.9993 g Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	13.6	J
11097-69-1	PCB-1254 (Aroclor 1254)	16.4	J
11096-82-5	PCB-1260 (Aroclor 1260)	13.7	J
1336-36-3	PCB, Total	43.7	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418025.D
Lab Smp Id: 40158010012 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 18:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010012,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.999	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.160	18974	19797	1.043	0.05		
1.434	13801	11349	0.822	0.04		
1.688	16316	11539	0.707	0.05		
1.770	36502	33279	0.912	0.11		
1.803	10361	11145	1.076	0.03		
1.831	10765	9217	0.856	0.03		
1.954	10689	9338	0.874	0.03		
2.171	14459	13361	0.924	0.04		
2.203	32102	19492	0.607	0.09		
2.294	18556	19501	1.051	0.05		
2.315	21164	19855	0.938	0.06		
2.359	11955	9273	0.776	0.03		
2.410	63847	58106	0.910	0.19		
2.485	12846622	11951427	0.930	40.41	$ 2 Tetrachloro-m-xylene	
2.617	9323	8970	0.962	0.02		
2.786	22136	19841	0.896	0.06		
2.861	26010	17578	0.676	0.08		
2.976	101916	44149	0.433	0.31		
3.021	37981	31385	0.826	0.11		
3.320	14541	11883	0.817	0.04	5 Aroclor 1016	BA
3.401	15322	13986	0.913	0.04		
3.692	11064	11460	1.036	0.03		
3.827	102093	63823	0.625	0.31	5 Aroclor 1016	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.931	25435	14745	0.580	0.07	5 Aroclor 1016
3.992	38309	25027	0.653	0.11	5 Aroclor 1016
4.055	22014	16139	0.733	0.06	
4.216	73483	62569	0.851	0.22	
4.238	19708	21632	1.098	0.06	
4.262	67504	62806	0.930	0.20	6 Aroclor 1248
4.293	67934	39305	0.579	0.21	
4.417	49633	36118	0.728	0.15	
4.451	37731	25352	0.672	0.11	
4.500	59687	41908	0.702	0.18	
4.546	96297	59234	0.615	0.29	6 Aroclor 1248
4.642	11895	10230	0.860	0.03	
4.766	197651	175335	0.887	0.61	
4.813	65820	53364	0.811	0.20	6 Aroclor 1248
4.847	102924	88582	0.861	0.31	
4.880	183173	103705	0.566	0.56	6 Aroclor 1248
4.956	25805	19481	0.755	0.07	
5.037	53937	48536	0.900	0.16	6 Aroclor 1248
5.062	43186	30347	0.703	0.13	
5.099	82970	62527	0.754	0.25	
5.121	70842	65078	0.919	0.21	
5.163	187942	160549	0.854	0.58	7 Aroclor 1254
5.213	153233	134416	0.877	0.47	
5.285	21604	19698	0.912	0.06	
5.312	115251	108007	0.937	0.35	
5.364	41513	35378	0.852	0.12	
5.406	76707	64865	0.846	0.23	7 Aroclor 1254
5.451	630585	588078	0.933	1.95	
5.509	161177	130327	0.809	0.49	7 Aroclor 1254
5.571	23480	16189	0.689	0.07	
5.603	45943	35376	0.770	0.14	
5.674	82110	62067	0.756	0.25	
5.707	40059	24097	0.602	0.12	
5.741	38240	31607	0.827	0.11	
5.790	299951	239491	0.798	0.92	
5.823	60419	81525	1.349	0.18	
5.838	157944	131535	0.833	0.48	
5.898	61262	37623	0.614	0.18	
5.932	17277	14345	0.830	0.05	
5.992	83626	78160	0.935	0.25	
6.024	111330	96739	0.869	0.34	7 Aroclor 1254
6.056	348508	316918	0.909	1.07	
6.124	56973	34906	0.613	0.17	
6.169	100520	50857	0.506	0.31	
6.226	24577	22768	0.926	0.07	
6.244	47318	36618	0.774	0.14	
6.298	434742	381459	0.877	1.34	7 Aroclor 1254
6.333	44809	38276	0.854	0.13	
6.372	15813	12917	0.817	0.04	
6.431	44640	26417	0.592	0.13	
6.509	153645	131569	0.856	0.47	
6.534	84704	80206	0.947	0.26	
6.560	59043	43137	0.731	0.18	
6.658	22133	17158	0.775	0.06	
6.717	71767	49051	0.683	0.22	
6.755	70881	51220	0.723	0.21	
6.799	76107	58235	0.765	0.23	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.839	47519	25325	0.533	0.14	
6.902	8091	8380	1.036	0.02	
6.941	125739	96748	0.769	0.38	
7.003	192494	159346	0.828	0.59	8 Aroclor 1260
7.032	17002	22664	1.333	0.05	
7.087	172209	80336	0.467	0.53	
7.249	123802	98453	0.795	0.38	8 Aroclor 1260
7.283	98765	53918	0.546	0.30	
7.339	58661	33734	0.575	0.18	
7.389	43337	40730	0.940	0.13	
7.443	100638	62819	0.624	0.31	8 Aroclor 1260
7.486	44359	25800	0.582	0.13	
7.577	52835	43588	0.825	0.16	
7.627	29411	21449	0.729	0.09	
7.662	20308	22628	1.114	0.06	
7.701	20398	17020	0.834	0.06	
7.725	60389	40659	0.673	0.18	
7.763	45578	25986	0.570	0.14	
7.806	43573	26445	0.607	0.13	
7.878	45468	32217	0.709	0.14	
7.897	78308	43184	0.551	0.24	8 Aroclor 1260
7.954	29399	25121	0.854	0.09	
7.975	48019	29408	0.612	0.14	
8.048	61380	38834	0.633	0.19	
8.273	101074	87804	0.869	0.31	
8.376	58593	40773	0.696	0.18	
8.449	22391	20550	0.918	0.06	
8.481	29741	22157	0.745	0.09	
8.570	11028570	9859774	0.894	34.15	$ 12 Decachlorobiphenyl
8.638	23697	19637	0.829	0.07	
8.719	35125	18631	0.530	0.10	
8.800	10250	8311	0.811	0.03	
9.167	425747	373701	0.878	1.31	
9.212	29055	20745	0.714	0.08	
9.479	30526	21490	0.704	0.09	
	32290719	28491923		100.000	

Total unknown % area = 19

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418025.D
Lab Smp Id: 40158010012 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 18:43
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010012,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.999	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	12846622	0.10419	52			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.262	4.261	0.001	67503	0.02881	14	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	96297	0.02320	12	0.00- 20.00	142.66	CO
4.812	4.812	0.000	65819	0.03242	16	0.00- 20.00	97.51	CO
4.879	4.879	0.000	183172	0.03636	18	0.00- 20.00	271.35	CO
5.036	5.038	-0.002	53937	0.01503	7.5	0.00- 20.00	79.90	CO
Average of Peak Concentrations =					14			
7 Aroclor 1254					CAS #: 11097-69-1			
5.163	5.162	0.001	187942	0.03590	18	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	76707	0.01783	8.9	0.00- 20.00	40.81	BA
5.508	5.510	-0.002	161176	0.02075	10	0.00- 20.00	85.76	BA
6.023	6.027	-0.004	111329	0.02286	11	0.00- 20.00	59.24	BA
6.298	6.299	-0.001	434741	0.06681	33	0.00- 20.00	231.32	BA
Average of Peak Concentrations =					16			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.002	7.006	-0.004	192494	0.01922	9.6	0.00- 20.00	48.10	CO
7.249	7.251	-0.002	123801	0.02590	13	0.00- 20.00	28.48	CO
7.443	7.443	0.000	100637	0.03452	17	0.00- 20.00	23.15	CO
7.896	7.901	-0.005	78308	0.02968	15	0.00- 20.00	18.01	CO
Average of Peak Concentrations =					14			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	11028569	0.10066	50			

QC Flag Legend

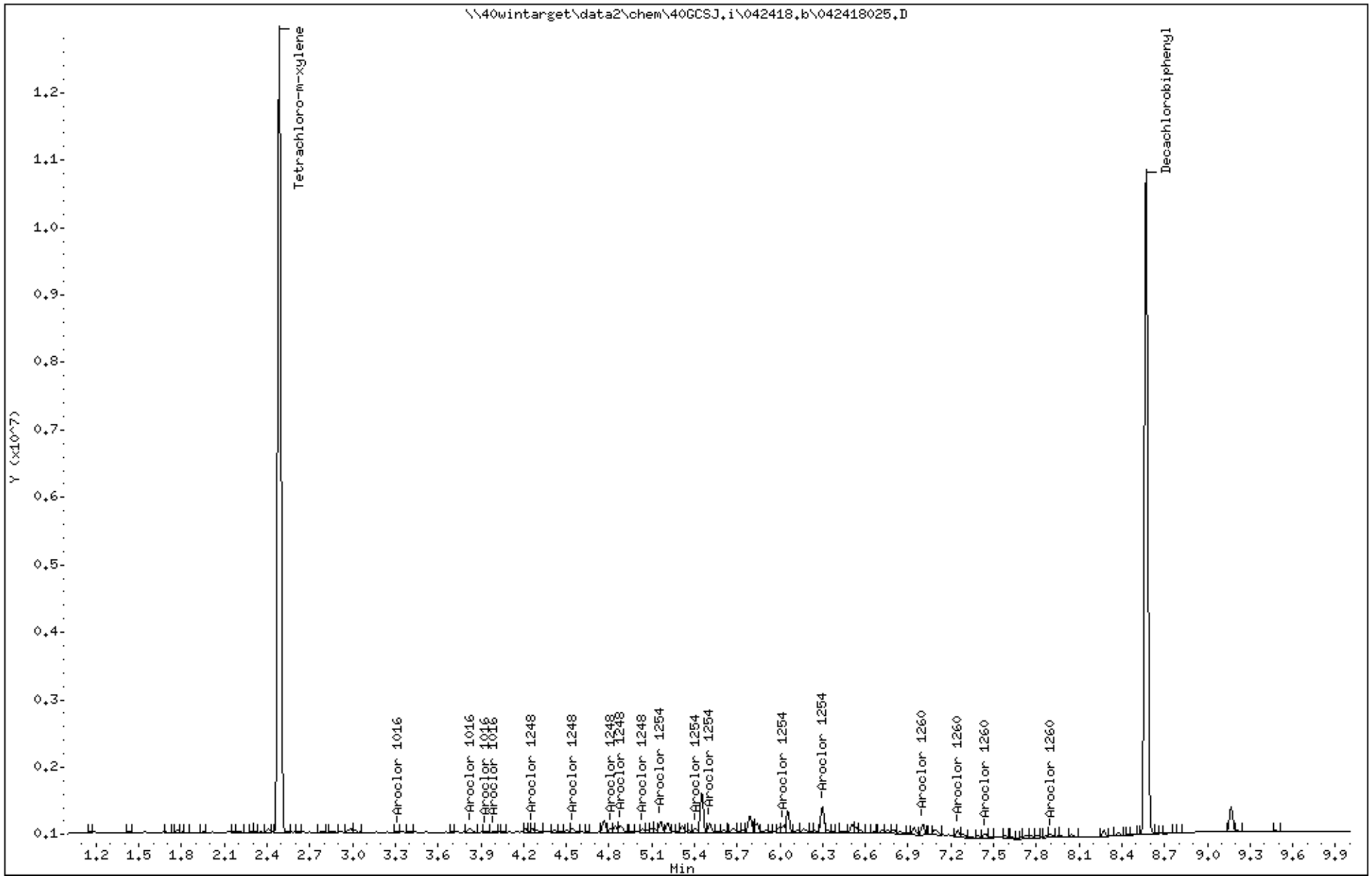
M - Compound response manually integrated.

Review Codes Legend

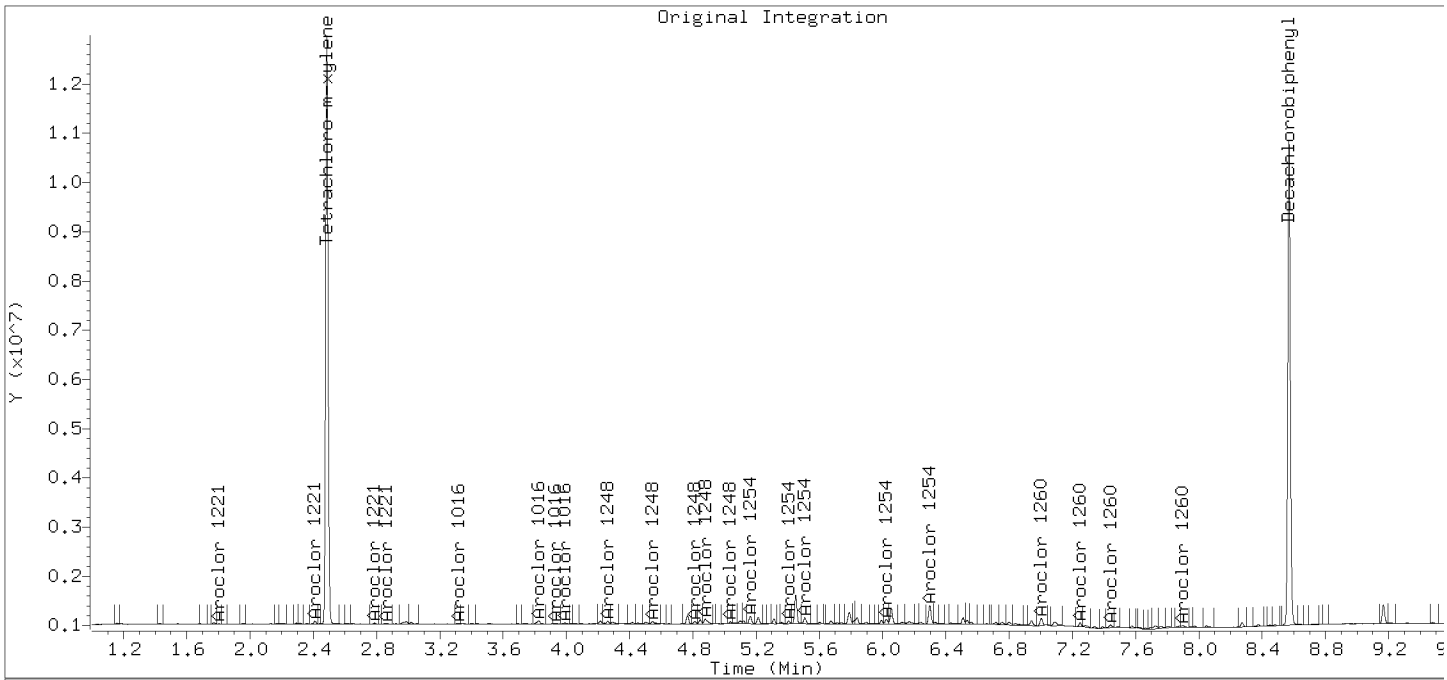
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

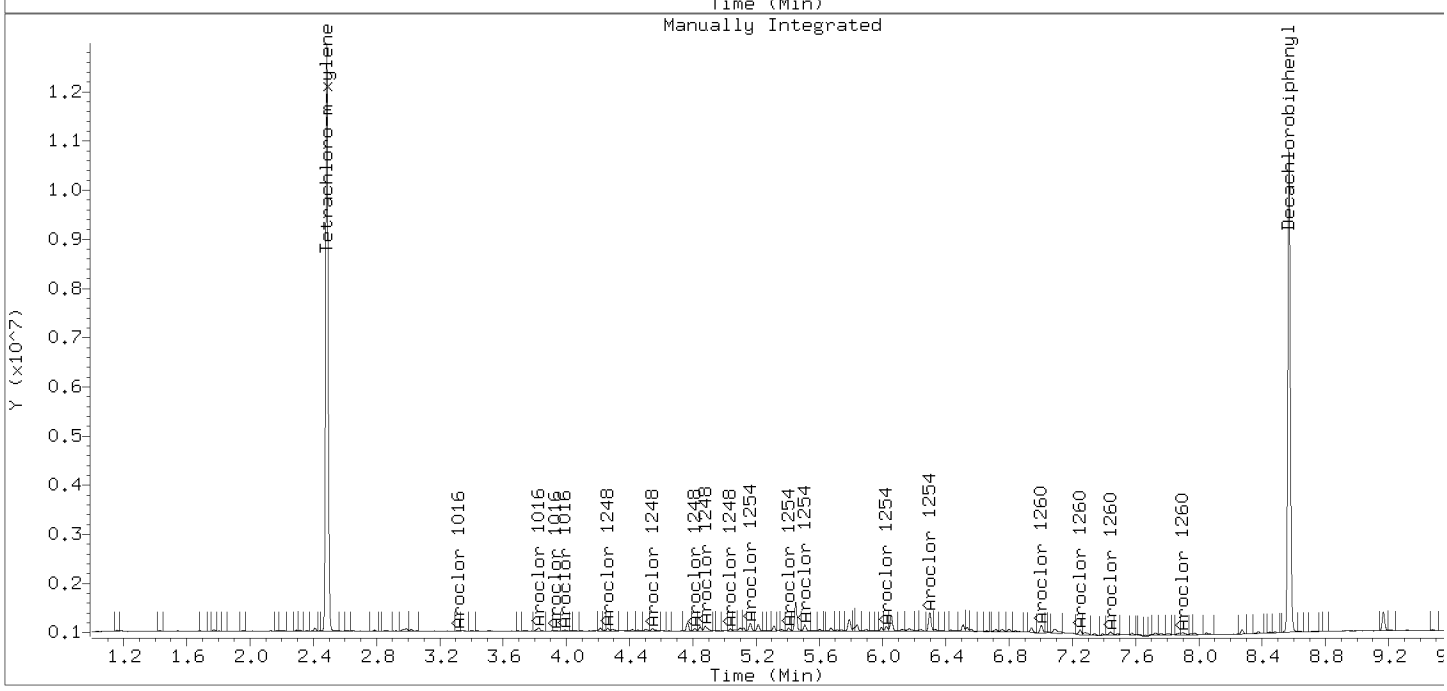
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418025.D
Date : 24-APR-2018 18:43
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010012,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 18:43 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010012





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	10360	0	
Aroclor 1221	10360	0	
Aroclor 1221	10360	0	
Aroclor 1221	10360	0	
Aroclor 1221	10360	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	71166	67503	CO
Aroclor 1248	71166	67503	CO
Aroclor 1248	71166	67503	CO
Aroclor 1248	71166	67503	CO
Aroclor 1248	71166	67503	CO
Aroclor 1254	169320	187942	BA
Aroclor 1254	169320	187942	BA
Aroclor 1254	169320	187942	BA
Aroclor 1254	169320	187942	BA
Aroclor 1254	169320	187942	BA
Aroclor 1260	429693	0	CO
Aroclor 1260	429693	0	CO
Aroclor 1260	429693	0	CO
Aroclor 1260	429693	0	CO
Aroclor 1260	429693	0	CO
Tetrachloro-m-xylene	12846622	12846622	
Decachlorobiphenyl	11028569	11028569	

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SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010013
Date Analyzed: 04/24/2018 18:59
Lab File ID: 042418.B\042418026.D
Initial wt/vol: 10.0282 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)	23.3	J
11097-69-1	PCB-1254 (Aroclor 1254)	17.6	J
11096-82-5	PCB-1260 (Aroclor 1260)	22.9	J
1336-36-3	PCB, Total	63.9	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418026.D
Lab Smp Id: 40158010013 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 18:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010013,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.028	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.032	26163	14506	0.554	0.07		
1.074	14250	10395	0.729	0.04		
1.100	11628	8485	0.730	0.03		
1.157	35480	29656	0.836	0.10		
1.205	16898	11405	0.675	0.04		
1.333	16042	10736	0.669	0.04		
1.426	17457	14068	0.806	0.05		
1.497	12119	9231	0.762	0.03		
1.686	13985	13623	0.974	0.04		
1.770	42379	41180	0.972	0.12		
1.800	16427	13498	0.822	0.04		
1.832	14693	11305	0.769	0.04		
2.172	14957	16370	1.094	0.04		
2.293	25693	26349	1.026	0.07		
2.316	34899	31955	0.916	0.10		
2.358	9927	9364	0.943	0.02		
2.411	83622	73175	0.875	0.24		
2.485	11704544	10808763	0.923	34.30	$ 2 Tetrachloro-m-xylene	
2.613	11516	9880	0.858	0.03		
2.788	24889	21132	0.849	0.07		
2.857	20307	15399	0.758	0.05		
2.977	51877	47890	0.923	0.14		
2.989	59276	56169	0.948	0.17		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.019	38354	35310	0.921	0.11	
3.059	14258	11111	0.779	0.04	
3.128	10114	8612	0.851	0.02	
3.158	11005	6784	0.616	0.03	
3.318	30913	27671	0.895	0.08	5 Aroclor 1016
3.343	22101	18127	0.820	0.06	
3.399	16334	11525	0.706	0.04	
3.433	13923	12293	0.883	0.04	
3.692	9180	8790	0.958	0.02	
3.731	16952	14613	0.862	0.04	
3.826	208922	140951	0.675	0.60	5 Aroclor 1016
3.931	44659	22571	0.505	0.12	5 Aroclor 1016
3.993	52753	36230	0.687	0.15	5 Aroclor 1016
4.055	25076	16693	0.666	0.07	
4.214	147520	122062	0.827	0.42	
4.262	136098	126264	0.928	0.39	6 Aroclor 1248
4.294	114671	75906	0.662	0.33	
4.417	68153	60120	0.882	0.19	
4.453	52565	44375	0.844	0.15	
4.501	40284	28129	0.698	0.11	
4.544	125271	109082	0.871	0.36	6 Aroclor 1248
4.767	113823	105844	0.930	0.32	
4.812	114684	104091	0.908	0.33	6 Aroclor 1248
4.847	155735	145231	0.933	0.44	
4.878	306556	200713	0.655	0.88	6 Aroclor 1248
4.957	44956	32072	0.713	0.12	
5.001	23043	20528	0.891	0.06	
5.036	102023	97669	0.957	0.29	6 Aroclor 1248
5.056	30997	27565	0.889	0.08	
5.099	126247	96406	0.764	0.36	
5.161	252124	221481	0.878	0.72	7 Aroclor 1254
5.212	223680	197354	0.882	0.64	
5.283	24516	25010	1.020	0.07	
5.313	96781	90957	0.940	0.27	
5.361	79535	62417	0.785	0.22	
5.407	114165	100664	0.882	0.32	7 Aroclor 1254
5.450	963865	926466	0.961	2.77	
5.508	244024	207610	0.851	0.70	7 Aroclor 1254
5.578	25679	20391	0.794	0.07	
5.602	55996	46822	0.836	0.16	
5.674	98292	82668	0.841	0.28	
5.713	46542	29948	0.643	0.13	
5.741	63376	49786	0.786	0.18	
5.790	446061	366908	0.823	1.28	
5.822	117343	116948	0.997	0.33	
5.838	91596	93120	1.017	0.26	
5.898	69809	39862	0.571	0.20	
5.930	25899	22159	0.856	0.07	
5.994	132322	123583	0.934	0.38	
6.024	170677	150266	0.880	0.49	7 Aroclor 1254
6.054	483495	427636	0.884	1.39	
6.118	32316	20901	0.647	0.09	
6.167	131670	73160	0.556	0.37	
6.240	92802	54176	0.584	0.26	
6.298	568389	492257	0.866	1.63	8 Aroclor 1260
6.333	61344	52814	0.861	0.17	
6.371	23875	19731	0.826	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.433	67580	41732	0.618	0.19	
6.509	221248	192679	0.871	0.63	
6.533	114083	110868	0.972	0.32	
6.558	89994	79760	0.886	0.25	
6.604	23156	16292	0.704	0.06	
6.658	29746	22087	0.743	0.08	
6.716	77755	68594	0.882	0.22	
6.756	107871	94954	0.880	0.31	
6.800	95258	88063	0.924	0.27	
6.839	45600	29582	0.649	0.13	
6.941	156827	137859	0.879	0.45	
7.003	319595	271559	0.850	0.92	8 Aroclor 1260
7.032	17979	23020	1.280	0.05	
7.095	99766	47701	0.478	0.28	
7.250	174544	149224	0.855	0.50	8 Aroclor 1260
7.281	108138	64690	0.598	0.31	
7.340	52901	30808	0.582	0.15	
7.390	81399	78111	0.960	0.23	
7.441	154174	107408	0.697	0.44	8 Aroclor 1260
7.487	73079	44865	0.614	0.21	
7.524	64391	43760	0.680	0.18	
7.578	32308	18644	0.577	0.09	
7.627	28962	21989	0.759	0.08	
7.665	15971	18862	1.181	0.04	
7.695	53201	38710	0.728	0.15	
7.726	56959	43228	0.759	0.16	
7.760	56198	40087	0.713	0.16	
7.809	76380	35378	0.463	0.22	
7.879	36934	30118	0.815	0.10	
7.899	117749	81190	0.690	0.33	8 Aroclor 1260
7.952	98027	71795	0.732	0.28	
8.047	86662	60270	0.695	0.24	
8.274	116215	104310	0.898	0.33	
8.316	23337	22380	0.959	0.06	
8.375	207656	148668	0.716	0.59	
8.447	54793	50560	0.923	0.15	
8.481	69207	59267	0.856	0.19	
8.570	10255239	8763982	0.855	29.54	$ 12 Decachlorobiphenyl
8.639	49463	43122	0.872	0.14	
8.719	40774	31959	0.784	0.11	
8.749	12226	11665	0.954	0.03	
9.053	15798	11574	0.733	0.04	
9.166	1770963	1586407	0.896	5.10	
9.481	22918	18083	0.789	0.06	
	34705392	30242831		100.000	

Total unknown % area = 27

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418026.D
Lab Smp Id: 40158010013 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 18:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010013,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.028	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	11704544	0.09493	47			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.262	4.261	0.001	136097	0.05809	29	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	125271	0.03018	15	0.00- 20.00	92.05	CO
4.812	4.812	0.000	114684	0.05649	28	0.00- 20.00	84.27	CO
4.877	4.879	-0.002	306555	0.06086	30	0.00- 20.00	225.25	CO
5.036	5.038	-0.002	102023	0.02843	14	0.00- 20.00	74.96	CO
Average of Peak Concentrations =					23			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	252124	0.04816	24	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	114164	0.02654	13	0.00- 20.00	45.28	BA
5.508	5.510	-0.002	244023	0.03142	16	0.00- 20.00	96.79	BA
6.024	6.027	-0.003	170676	0.03505	17	0.00- 20.00	67.70	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					18			
8 Aroclor 1260					CAS #: 11096-82-5			
6.298	6.300	-0.002	568388	0.06414	32	0.00- 20.00	100.00(M)	CO
7.003	7.006	-0.003	319595	0.03191	16	0.00- 20.00	56.23	CO
7.250	7.251	-0.001	174544	0.03652	18	0.00- 20.00	30.71	CO
7.441	7.443	-0.002	154174	0.05289	26	0.00- 20.00	27.12	CO
7.898	7.901	-0.003	117749	0.04462	22	0.00- 20.00	20.72	CO
Average of Peak Concentrations =					23			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10255239	0.09360	47			

QC Flag Legend

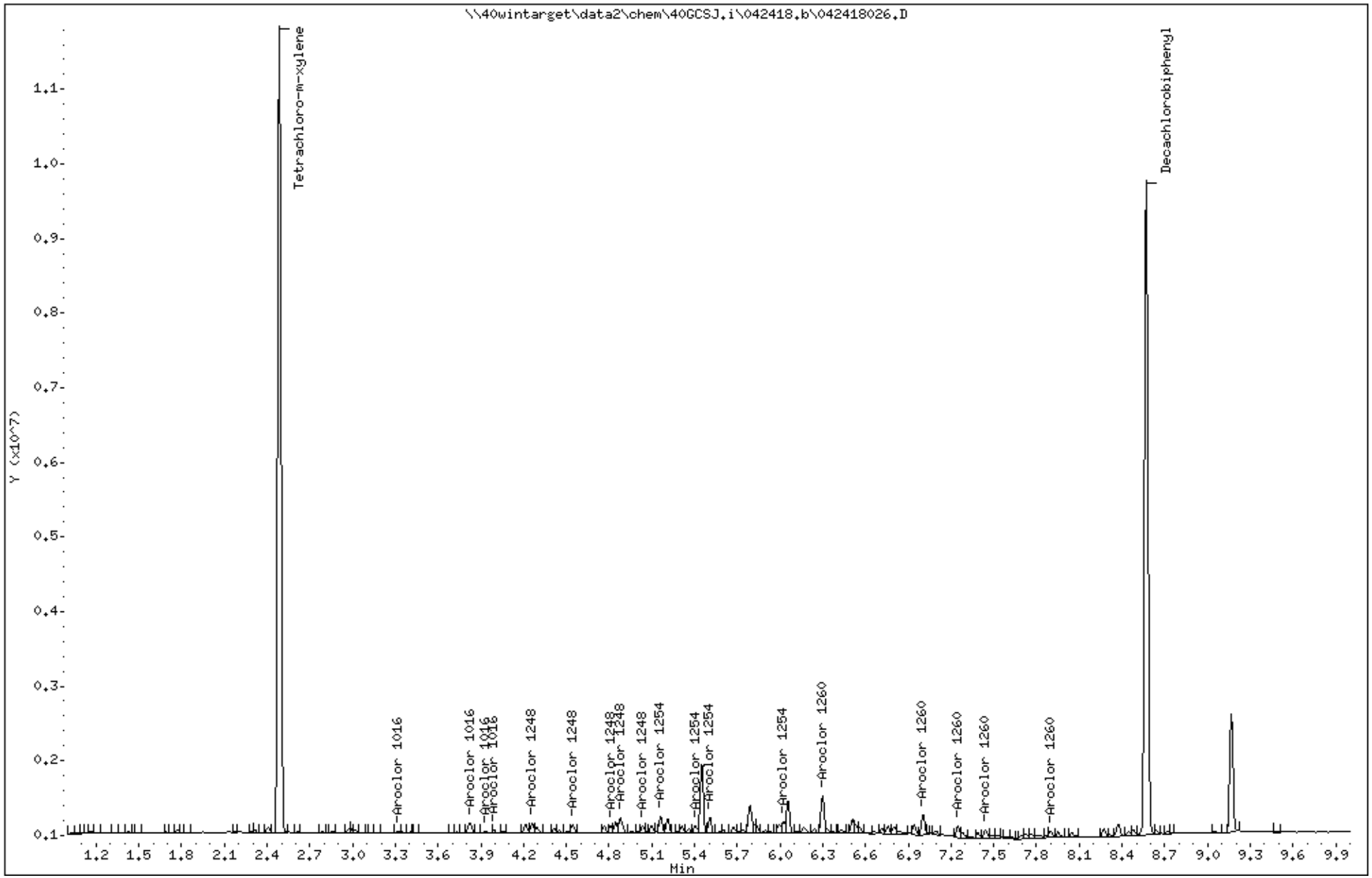
M - Compound response manually integrated.

Review Codes Legend

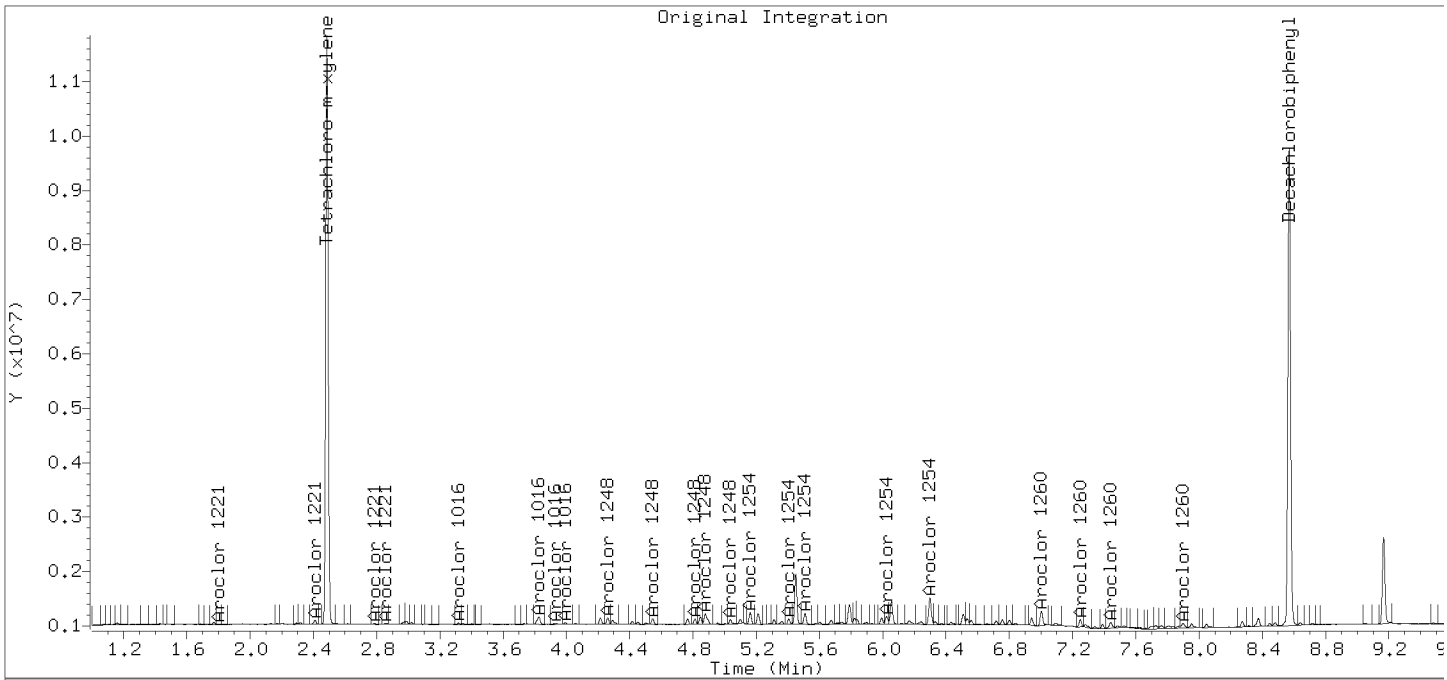
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

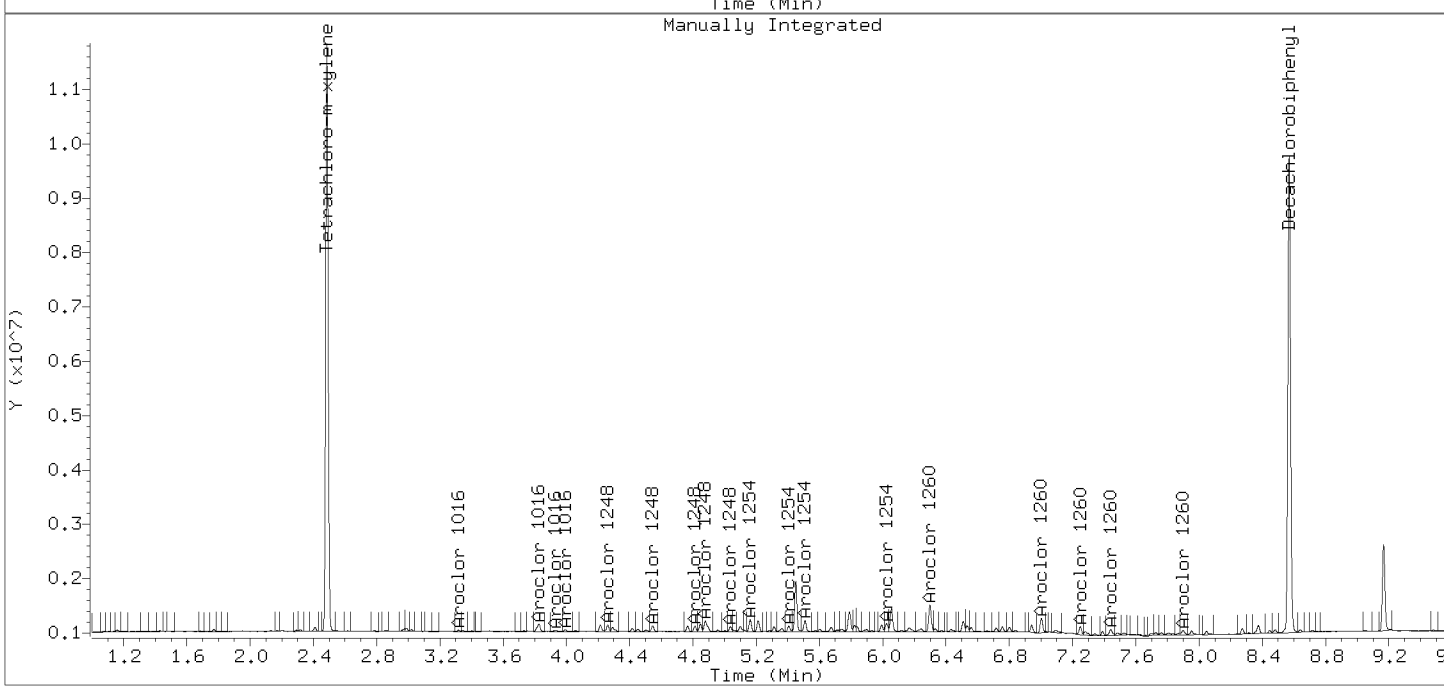
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418026.D
Date : 24-APR-2018 18:59
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010013,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418026.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 18:59 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010013





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	16427	0	
Aroclor 1221	16427	0	
Aroclor 1221	16427	0	
Aroclor 1221	16427	0	
Aroclor 1221	16427	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	122384	136097	CO
Aroclor 1248	122384	136097	CO
Aroclor 1248	122384	136097	CO
Aroclor 1248	122384	136097	CO
Aroclor 1248	122384	136097	CO
Aroclor 1254	231183	252124	BA
Aroclor 1254	231183	252124	BA
Aroclor 1254	231183	252124	BA
Aroclor 1254	231183	252124	BA
Aroclor 1254	231183	252124	BA
Aroclor 1260	564204	568388	CO
Aroclor 1260	564204	568388	CO
Aroclor 1260	564204	568388	CO
Aroclor 1260	564204	568388	CO
Aroclor 1260	564204	568388	CO
Tetrachloro-m-xylene	11704544	11704544	
Decachlorobiphenyl	10255239	10255239	

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SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010014
Date Analyzed: 04/24/2018 19:15
Lab File ID: 042418.B\042418027.D
Initial wt/vol: 10.0164 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	19.4	J
11097-69-1	PCB-1254 (Aroclor 1254)	17.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	22.5	J
1336-36-3	PCB, Total	59.9	

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418027.D
Lab Smp Id: 40158010014 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 19:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010014,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.016	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.028	10849	8686	0.801	0.03		
1.160	28776	26040	0.905	0.08		
1.204	12316	10869	0.882	0.03		
1.431	13674	11749	0.859	0.04		
1.635	11129	9004	0.809	0.03		
1.669	9511	6303	0.663	0.02		
1.770	73062	70611	0.966	0.21		
1.955	27365	18044	0.659	0.08		
2.172	11814	12301	1.041	0.03		
2.197	35043	23539	0.672	0.10		
2.292	12220	12358	1.011	0.03		
2.314	19343	18134	0.938	0.05		
2.350	9648	7171	0.743	0.02		
2.408	67956	59741	0.879	0.19		
2.485	11852054	10976915	0.926	35.36	$ 2 Tetrachloro-m-xylene	
2.785	22973	18372	0.800	0.06		
2.856	24491	13759	0.562	0.07		
2.977	64157	56755	0.885	0.18		
2.988	77936	76968	0.988	0.22		
3.019	47334	45786	0.967	0.13		
3.320	13560	12656	0.933	0.03	5 Aroclor 1016	BA
3.730	18920	12043	0.637	0.05		
3.827	133401	83044	0.623	0.39	5 Aroclor 1016	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.930	30636	16857	0.550	0.08	5 Aroclor 1016
3.992	39535	26890	0.680	0.11	5 Aroclor 1016
4.214	111268	87062	0.782	0.32	
4.261	107368	91804	0.855	0.31	6 Aroclor 1248
4.293	94428	59018	0.625	0.27	
4.352	30627	17099	0.558	0.08	
4.417	49462	39519	0.799	0.14	
4.453	33496	26882	0.803	0.09	
4.507	50924	37796	0.742	0.14	
4.546	103649	83782	0.808	0.30	6 Aroclor 1248
4.736	18513	18484	0.998	0.05	
4.766	118479	112099	0.946	0.34	
4.812	94300	78649	0.834	0.27	6 Aroclor 1248
4.847	144922	133600	0.922	0.42	
4.878	257981	163471	0.634	0.75	6 Aroclor 1248
4.958	41709	29870	0.716	0.12	
5.000	26118	18730	0.717	0.07	
5.035	94323	81586	0.865	0.27	6 Aroclor 1248
5.058	19802	20269	1.024	0.05	
5.100	101474	79530	0.784	0.29	
5.120	43354	41546	0.958	0.12	
5.162	209109	182214	0.871	0.61	7 Aroclor 1254
5.213	242329	210516	0.869	0.71	
5.254	13250	14961	1.129	0.03	
5.281	32185	27335	0.849	0.09	
5.314	132693	125330	0.945	0.38	
5.362	64174	45475	0.709	0.18	
5.407	114235	95004	0.832	0.33	7 Aroclor 1254
5.451	1057019	1013973	0.959	3.10	
5.509	254263	216214	0.850	0.74	7 Aroclor 1254
5.568	27343	19853	0.726	0.08	
5.604	52863	35774	0.677	0.15	
5.674	136541	109358	0.801	0.40	
5.711	53504	38546	0.720	0.15	
5.739	83525	56869	0.681	0.24	
5.789	513090	416213	0.811	1.50	
5.822	192752	115200	0.598	0.56	
5.900	97022	60993	0.629	0.28	
5.933	33035	23917	0.724	0.09	
5.992	121357	110797	0.913	0.35	
6.025	216224	187064	0.865	0.63	7 Aroclor 1254
6.055	487918	405033	0.830	1.43	
6.168	163514	71475	0.437	0.47	
6.242	108755	59258	0.545	0.31	
6.298	750230	660641	0.881	2.20	8 Aroclor 1260
6.333	82550	66538	0.806	0.24	
6.372	29604	23113	0.781	0.08	
6.431	93149	47051	0.505	0.27	
6.508	269990	245134	0.908	0.79	
6.535	148757	140260	0.943	0.43	
6.559	84577	70587	0.835	0.24	
6.603	27152	20213	0.744	0.07	
6.661	30725	25975	0.845	0.09	
6.715	105082	84461	0.804	0.30	
6.758	107380	87794	0.818	0.31	
6.801	122728	96573	0.787	0.35	
6.839	62166	39182	0.630	0.18	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.939	142858	124958	0.875	0.41	
7.003	231610	210630	0.909	0.67	8 Aroclor 1260
7.035	24843	24483	0.986	0.07	
7.051	17153	20579	1.200	0.05	
7.096	81064	41961	0.518	0.23	
7.248	169481	147681	0.871	0.49	8 Aroclor 1260
7.279	115629	71774	0.621	0.33	
7.339	61531	36399	0.592	0.18	
7.388	78218	71549	0.915	0.22	
7.441	136648	94300	0.690	0.40	8 Aroclor 1260
7.486	51850	28163	0.543	0.15	
7.577	51464	34201	0.665	0.15	
7.626	29013	25713	0.886	0.08	
7.663	26749	29039	1.086	0.07	
7.727	146499	52279	0.357	0.42	
7.765	63509	46079	0.726	0.18	
7.809	69240	34262	0.495	0.20	
7.884	47997	31766	0.662	0.14	
7.899	92808	64267	0.692	0.27	8 Aroclor 1260
7.955	107123	60838	0.568	0.31	
8.048	55548	51205	0.922	0.16	
8.073	40191	39551	0.984	0.11	
8.273	107899	93453	0.866	0.31	
8.314	11207	8270	0.738	0.03	
8.376	97858	65833	0.673	0.28	
8.448	49166	43993	0.895	0.14	
8.481	45929	35616	0.775	0.13	
8.570	10353943	9149340	0.884	30.37	$ 12 Decachlorobiphenyl
8.642	75582	37267	0.493	0.22	
8.718	39539	34219	0.865	0.11	
9.007	11414	9470	0.830	0.03	
9.166	813361	722771	0.889	2.38	
9.212	73342	51187	0.698	0.21	
9.481	41534	28194	0.679	0.12	
	34092495	29725575		100.000	

Total unknown % area = 25

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418027.D
Lab Smp Id: 40158010014 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 19:15
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010014,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.016	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	11852054	0.09613	48			
3 Aroclor 1242					CAS #: 53469-21-9			
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232					CAS #: 1114-16-5			
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	107367	0.04583	23	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	103649	0.02497	12	0.00- 20.00	96.54	CO
4.812	4.812	0.000	94299	0.04645	23	0.00- 20.00	87.83	CO
4.877	4.879	-0.002	257981	0.05121	26	0.00- 20.00	240.28	CO
5.034	5.038	-0.004	94323	0.02628	13	0.00- 20.00	87.85	CO
		Average of Peak Concentrations =			19			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	209109	0.03994	20	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	114234	0.02656	13	0.00- 20.00	54.63	BA
5.509	5.510	-0.001	254262	0.03274	16	0.00- 20.00	121.59	BA
6.024	6.027	-0.003	216223	0.04440	22	0.00- 20.00	103.40	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			18			
8 Aroclor 1260					CAS #: 11096-82-5			
6.297	6.300	-0.003	750230	0.08465	42	0.00- 20.00	100.00(M)	CO
7.002	7.006	-0.004	231610	0.02313	12	0.00- 20.00	30.87	CO
7.248	7.251	-0.003	169481	0.03546	18	0.00- 20.00	22.59	CO
7.441	7.443	-0.002	136648	0.04688	23	0.00- 20.00	18.21	CO
7.899	7.901	-0.002	92808	0.03517	18	0.00- 20.00	12.37	CO
		Average of Peak Concentrations =			22			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10353942	0.09450	47			

QC Flag Legend

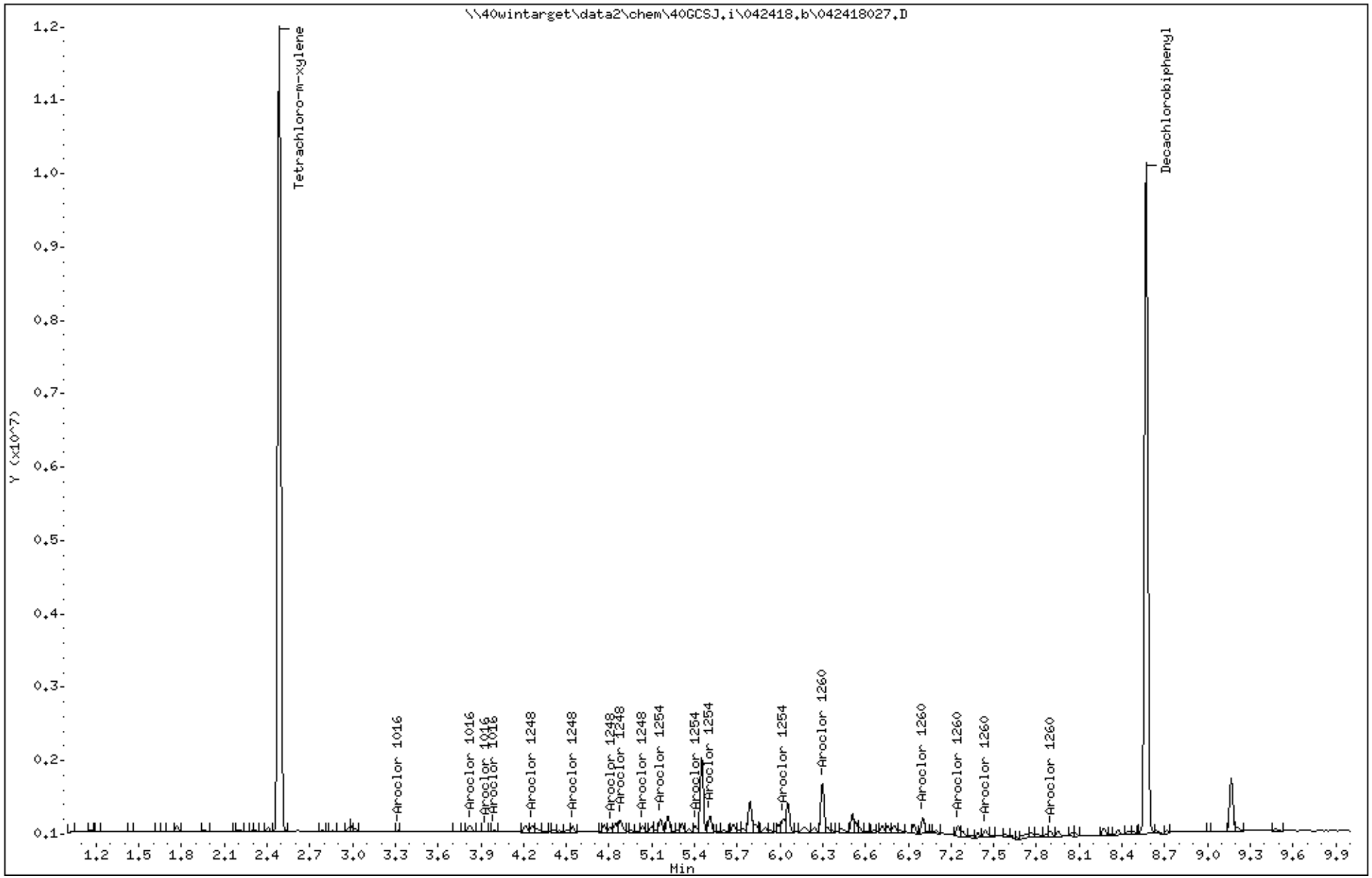
M - Compound response manually integrated.

Review Codes Legend

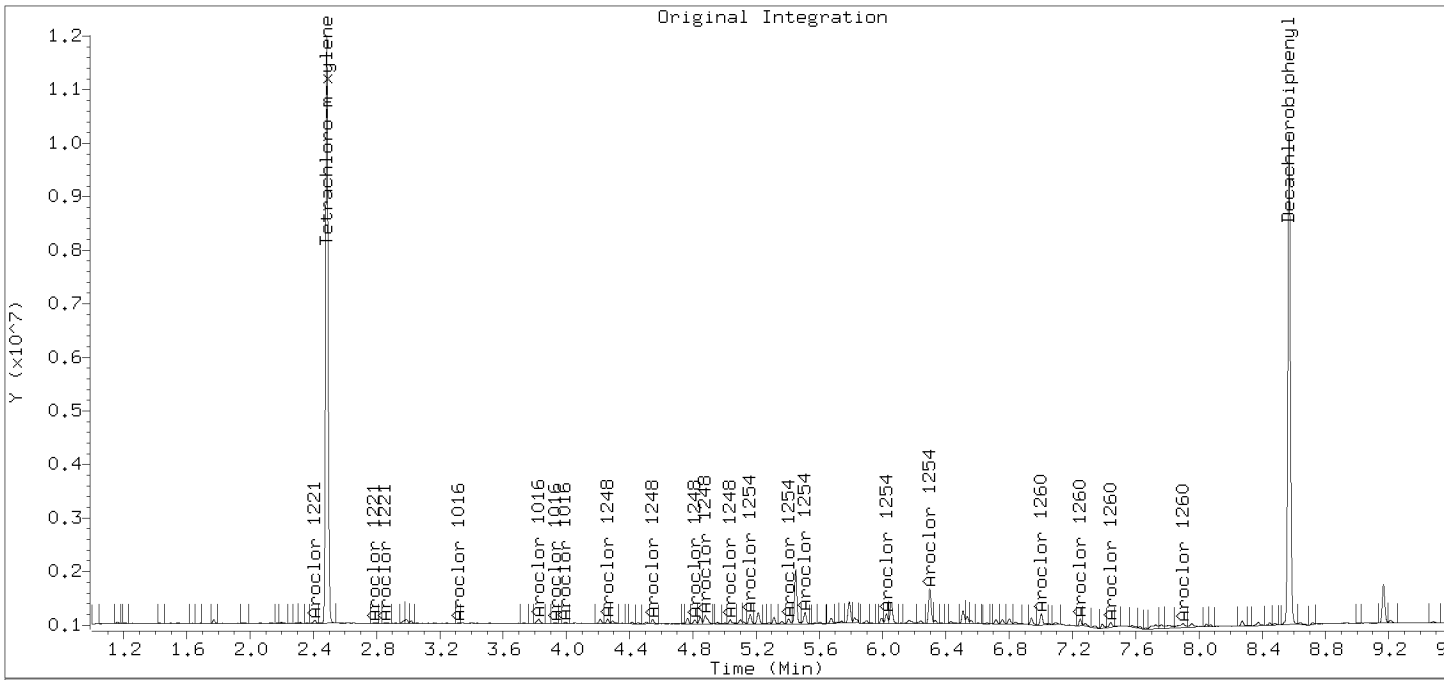
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

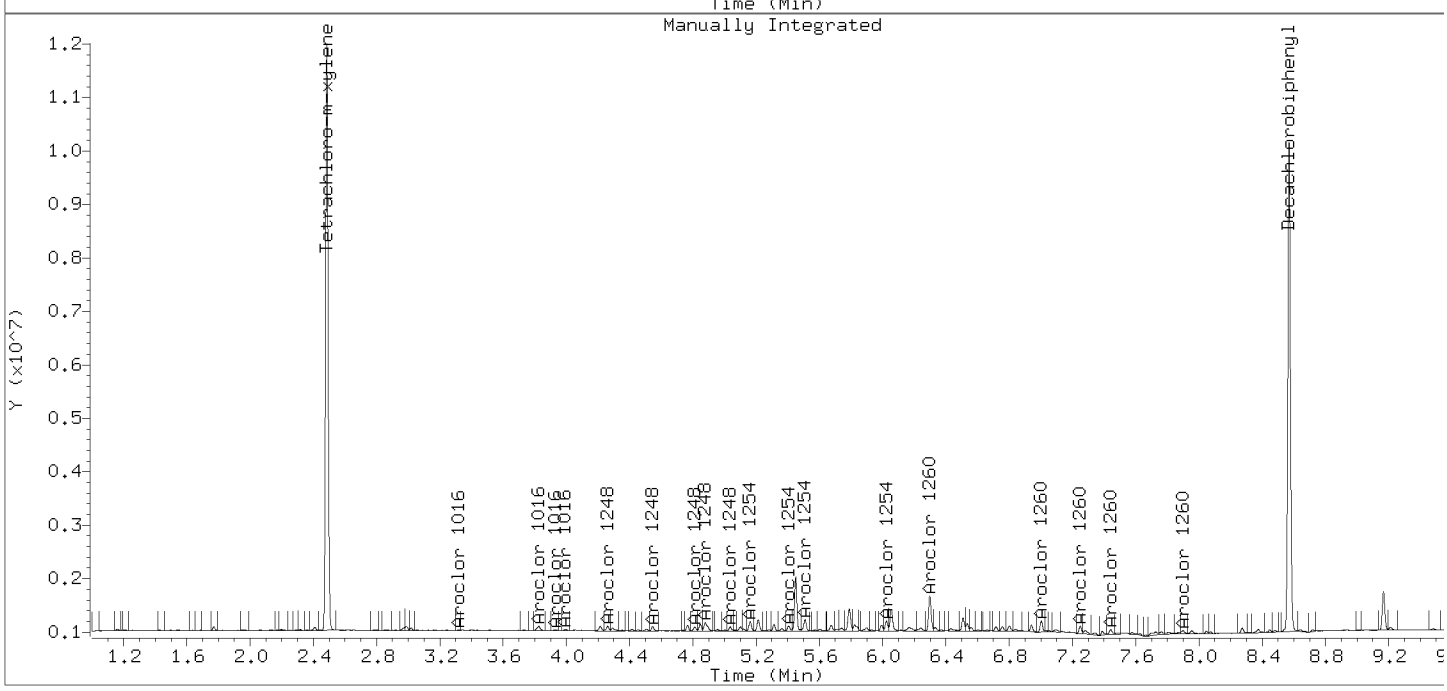
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418027.D
Date : 24-APR-2018 19:15
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010014,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 19:15 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010014





Manually Integrated Compounds

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

Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	92327	107367	CO
Aroclor 1248	92327	107367	CO
Aroclor 1248	92327	107367	CO
Aroclor 1248	92327	107367	CO
Aroclor 1248	92327	107367	CO
Aroclor 1254	202254	209109	BA
Aroclor 1254	202254	209109	BA
Aroclor 1254	202254	209109	BA
Aroclor 1254	202254	209109	BA
Aroclor 1254	202254	209109	BA
Aroclor 1260	732908	750230	CO
Aroclor 1260	732908	750230	CO
Aroclor 1260	732908	750230	CO
Aroclor 1260	732908	750230	CO
Aroclor 1260	732908	750230	CO
Tetrachloro-m-xylene	11852054	11852054	
Decachlorobiphenyl	10353942	10353942	

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SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010015
Date Analyzed: 04/24/2018 20:02
Lab File ID: 042418.B\042418030.D
Initial wt/vol: 8.3907 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)	<13.6	U
11104-28-2	PCB-1221 (Aroclor 1221)	<13.6	U
11141-16-5	PCB-1232 (Aroclor 1232)	<13.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<13.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	25.7	J
11097-69-1	PCB-1254 (Aroclor 1254)	23.0	J
11096-82-5	PCB-1260 (Aroclor 1260)	26.7	J
1336-36-3	PCB, Total	75.5	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418030.D
Lab Smp Id: 40158010015 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 20:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010015,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	8.391	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.031	17275	12200	0.706	0.04		
1.071	9326	9037	0.969	0.02		
1.160	23333	20311	0.870	0.06		
1.188	9226	8858	0.960	0.02		
1.429	9273	9337	1.007	0.02		
1.539	11782	9043	0.768	0.03		
1.687	19343	16510	0.854	0.05		
1.770	47392	40895	0.863	0.13		
1.800	15700	15455	0.984	0.04		
1.834	17901	12715	0.710	0.04		
1.950	9354	8840	0.945	0.02		
2.129	18759	14229	0.759	0.05		
2.169	19849	19230	0.969	0.05		
2.205	27802	16287	0.586	0.07		
2.292	29159	27355	0.938	0.08		
2.316	30491	30165	0.989	0.08		
2.353	12456	10895	0.875	0.03		
2.410	65601	52414	0.799	0.18		
2.445	10441	11972	1.147	0.02		
2.484	12404161	11679789	0.942	35.17	$ 2 Tetrachloro-m-xylene	
2.552	17557	13320	0.759	0.04		
2.608	9885	5550	0.561	0.02		
2.787	21385	19960	0.933	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.860	28677	18269	0.637	0.07	
2.923	10573	9368	0.886	0.02	
2.974	49706	43710	0.879	0.13	
2.989	61149	57418	0.939	0.17	
3.020	41675	40414	0.970	0.11	
3.316	18429	16779	0.910	0.05	5 Aroclor 1016
3.345	13347	11887	0.891	0.03	
3.396	10774	9431	0.875	0.03	
3.432	10624	7725	0.727	0.02	
3.690	11143	8082	0.725	0.03	
3.724	11787	8440	0.716	0.03	
3.827	130266	86820	0.666	0.36	5 Aroclor 1016
3.913	15050	15163	1.007	0.04	
3.930	26227	18426	0.703	0.07	5 Aroclor 1016
3.994	45110	25755	0.571	0.12	5 Aroclor 1016
4.052	18935	13172	0.696	0.05	
4.213	122328	94204	0.770	0.34	
4.259	112668	99475	0.883	0.31	6 Aroclor 1248
4.291	96002	62400	0.650	0.26	
4.417	57344	48087	0.839	0.15	
4.453	60218	42110	0.699	0.16	
4.499	76318	50741	0.665	0.21	
4.545	127021	100779	0.793	0.35	6 Aroclor 1248
4.739	18522	14677	0.792	0.05	
4.766	263184	253611	0.964	0.73	
4.811	104609	89123	0.852	0.29	6 Aroclor 1248
4.847	140301	129546	0.923	0.39	
4.878	302029	190200	0.630	0.84	6 Aroclor 1248
4.953	41655	29152	0.700	0.11	
5.002	30652	21458	0.700	0.08	
5.036	92129	85820	0.932	0.25	6 Aroclor 1248
5.060	39737	36247	0.912	0.11	
5.098	115329	93306	0.809	0.32	
5.119	55373	59320	1.071	0.15	
5.161	267290	234614	0.878	0.74	7 Aroclor 1254
5.213	231273	209602	0.906	0.64	
5.253	20826	19202	0.922	0.05	
5.281	30671	27701	0.903	0.08	
5.312	122314	112260	0.918	0.34	
5.361	86628	60854	0.702	0.24	
5.405	115137	102449	0.890	0.32	7 Aroclor 1254
5.450	1004145	987752	0.984	2.79	
5.508	274047	237452	0.866	0.76	7 Aroclor 1254
5.576	30574	24864	0.813	0.08	
5.602	76618	60886	0.795	0.21	
5.673	127074	105669	0.832	0.35	
5.709	57255	39596	0.692	0.15	
5.741	77807	54520	0.701	0.21	
5.789	511156	427693	0.837	1.42	
5.839	325593	204476	0.628	0.90	
5.898	83186	48767	0.586	0.23	
5.931	25684	23017	0.896	0.07	
5.965	7454	9012	1.209	0.02	
5.994	135978	130085	0.957	0.37	
6.025	201725	177812	0.881	0.56	7 Aroclor 1254
6.054	511120	456005	0.892	1.42	
6.123	28228	23992	0.850	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.166	151246	75891	0.502	0.42	
6.242	99377	57017	0.574	0.27	
6.297	651804	551233	0.846	1.81	8 Aroclor 1260
6.333	67896	60745	0.895	0.18	
6.370	21517	19527	0.908	0.05	
6.431	72101	47573	0.660	0.20	
6.484	12748	13770	1.080	0.03	
6.507	253286	237101	0.936	0.70	
6.535	125871	119874	0.952	0.35	
6.560	107958	90454	0.838	0.30	
6.607	19845	16580	0.835	0.05	
6.657	33364	29017	0.870	0.09	
6.716	116040	94791	0.817	0.32	
6.757	128997	101232	0.785	0.35	
6.800	127617	108107	0.847	0.35	
6.840	57827	37559	0.650	0.16	
6.905	11490	12416	1.081	0.03	
6.941	156077	130918	0.839	0.43	
7.003	301653	263578	0.874	0.84	8 Aroclor 1260
7.028	24719	26431	1.069	0.06	
7.051	17466	21177	1.212	0.04	
7.092	145417	51580	0.355	0.40	
7.249	177334	153083	0.863	0.49	8 Aroclor 1260
7.280	110647	71604	0.647	0.30	
7.340	50638	32006	0.632	0.14	
7.389	70412	69518	0.987	0.19	
7.442	137090	99107	0.723	0.38	8 Aroclor 1260
7.482	62099	38195	0.615	0.17	
7.526	70873	39909	0.563	0.19	
7.581	17631	15899	0.902	0.04	
7.627	44815	26346	0.588	0.12	
7.662	18408	20941	1.138	0.05	
7.693	28955	33130	1.144	0.08	
7.726	68545	39400	0.575	0.19	
7.762	58137	43661	0.751	0.16	
7.810	63476	31490	0.496	0.17	
7.871	21371	18935	0.886	0.05	
7.898	96167	64401	0.670	0.26	8 Aroclor 1260
7.954	87039	63551	0.730	0.24	
8.048	66555	51587	0.775	0.18	
8.273	106876	94034	0.880	0.29	
8.317	15649	16764	1.071	0.04	
8.375	134123	99920	0.745	0.37	
8.446	44911	40143	0.894	0.12	
8.478	49745	38279	0.769	0.13	
8.569	10854764	9397088	0.866	30.23	$ 12 Decachlorobiphenyl
8.639	35284	28670	0.813	0.09	
8.720	44852	25696	0.573	0.12	
8.801	13316	7888	0.592	0.03	
8.931	10506	8318	0.792	0.02	
9.166	972343	874929	0.900	2.70	
9.212	51790	31245	0.603	0.14	
9.478	49402	29796	0.603	0.13	
	35906199	31505866		100.000	

Total unknown % area = 26

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418030.D
Lab Smp Id: 40158010015 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 20:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010015,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	8.391	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	12404161	0.10061	60			
3 Aroclor 1242					CAS #: 53469-21-9			
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232					CAS #: 1114-16-5			
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.259	4.261	-0.002	112667	0.04809	29	0.00- 20.00	100.00(M)	CO
4.545	4.546	-0.001	127020	0.03060	18	0.00- 20.00	112.74	CO
4.811	4.812	-0.001	104609	0.05153	31	0.00- 20.00	92.85	CO
4.878	4.879	-0.001	302028	0.05996	36	0.00- 20.00	268.07	CO
5.036	5.038	-0.002	92128	0.02567	15	0.00- 20.00	81.77	CO
		Average of Peak Concentrations =			26			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	267290	0.05106	30	0.00- 20.00	100.00(M)	BA
5.404	5.408	-0.004	115137	0.02677	16	0.00- 20.00	43.08	BA
5.508	5.510	-0.002	274047	0.03529	21	0.00- 20.00	102.53	BA
6.025	6.027	-0.002	201725	0.04142	25	0.00- 20.00	75.47	BA
6.299	6.299	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			23			
8 Aroclor 1260					CAS #: 11096-82-5			
6.297	6.300	-0.003	651804	0.07355	44	0.00- 20.00	100.00(M)	CO
7.002	7.006	-0.004	301653	0.03012	18	0.00- 20.00	46.28	CO
7.249	7.251	-0.002	177333	0.03710	22	0.00- 20.00	27.21	CO
7.441	7.443	-0.002	137090	0.04703	28	0.00- 20.00	21.03	CO
7.898	7.901	-0.003	96166	0.03644	22	0.00- 20.00	14.75	CO
		Average of Peak Concentrations =			27			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10854763	0.09908	59			

QC Flag Legend

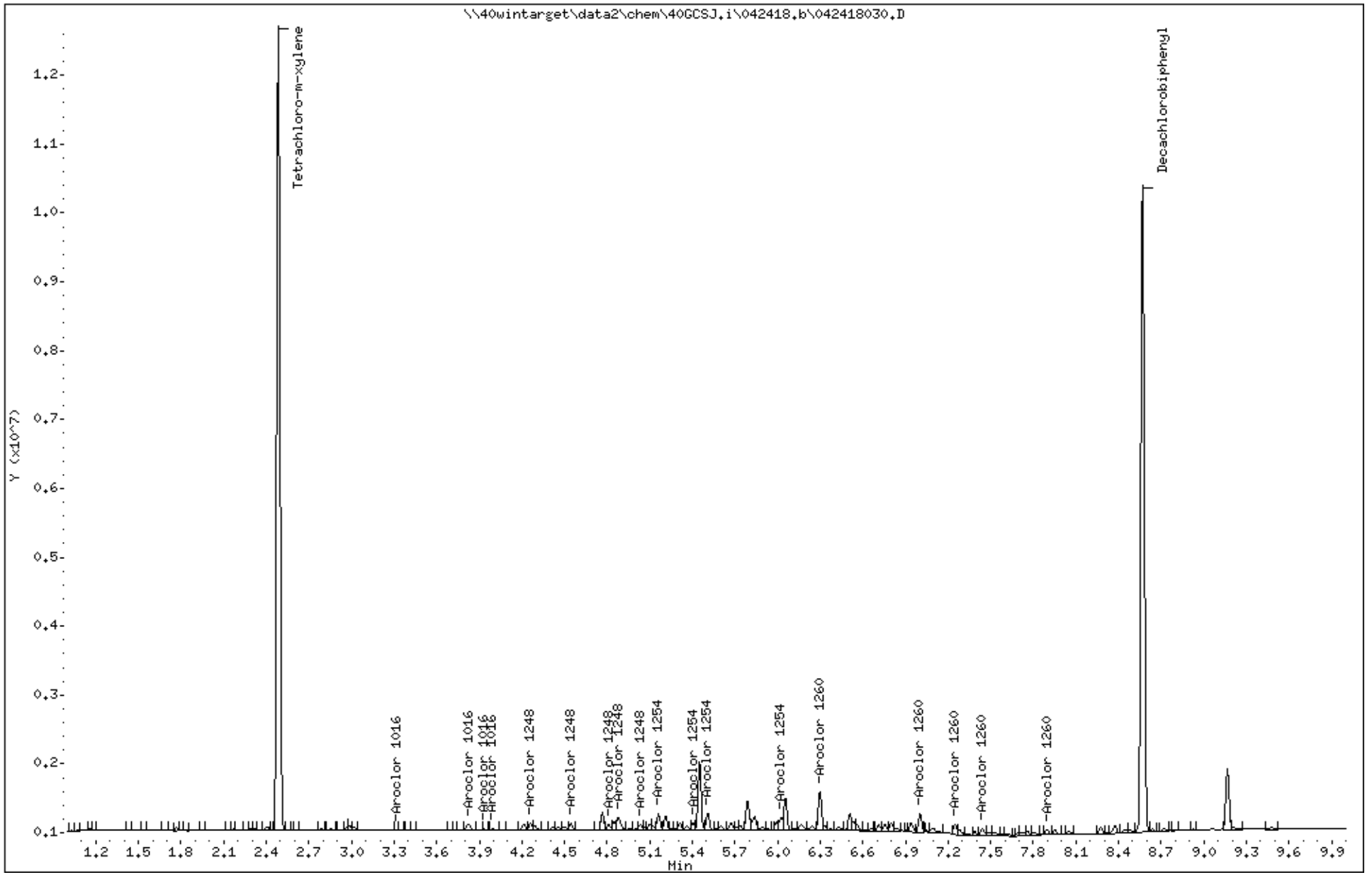
M - Compound response manually integrated.

Review Codes Legend

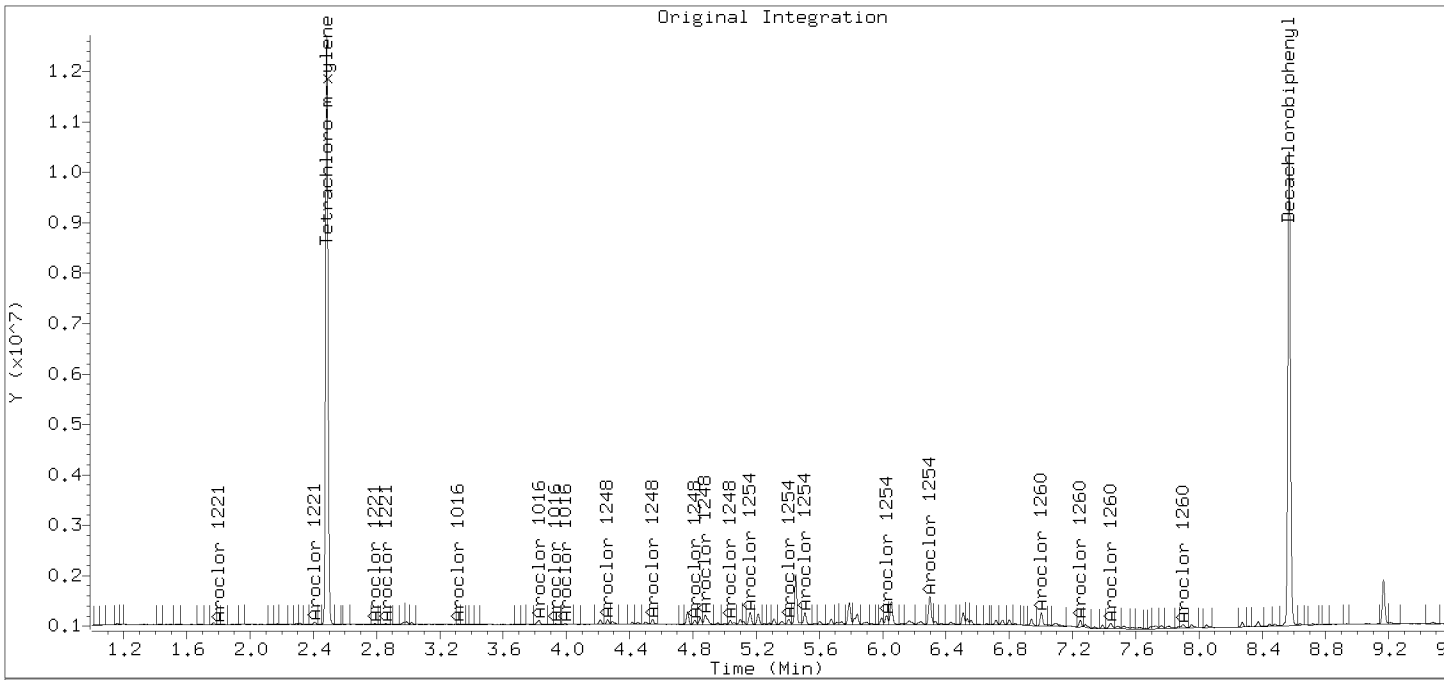
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

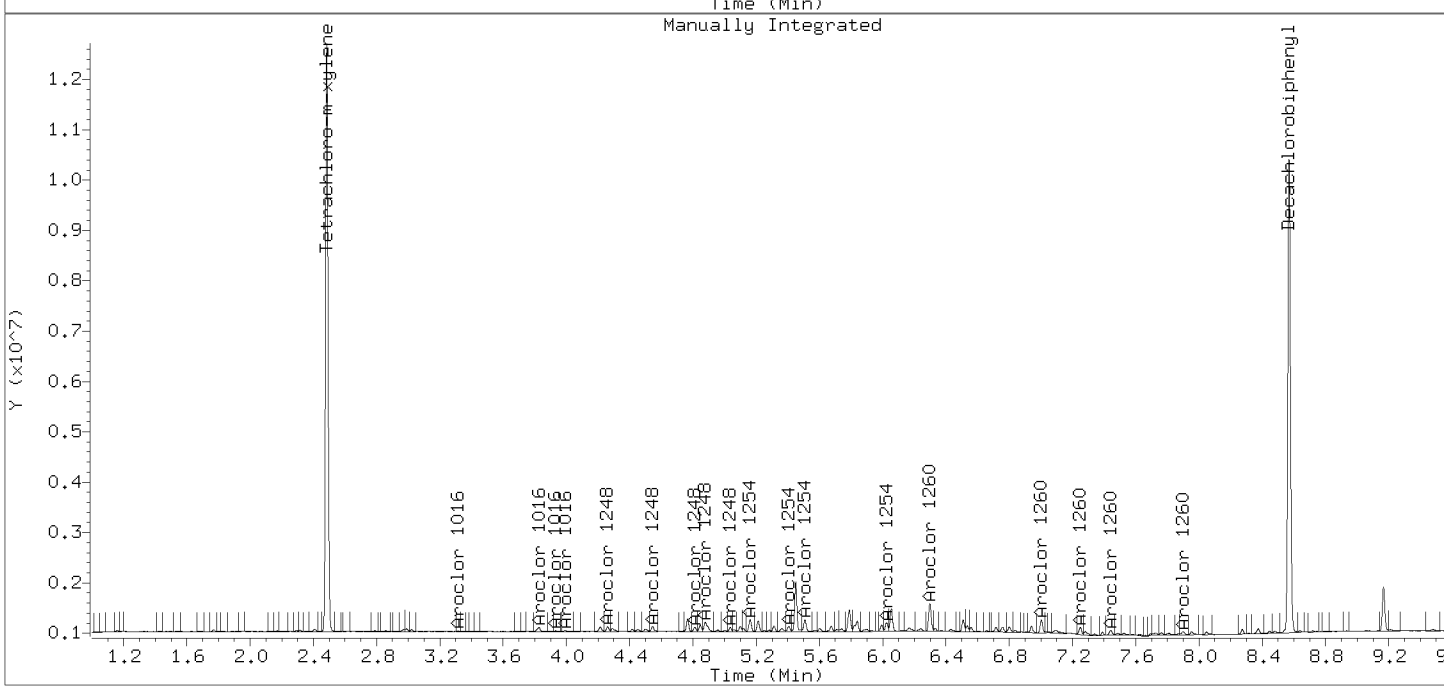
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418030.D
Date : 24-APR-2018 20:02
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010015,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418030.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 20:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010015





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	15700	0	
Aroclor 1221	15700	0	
Aroclor 1221	15700	0	
Aroclor 1221	15700	0	
Aroclor 1221	15700	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	101312	112667	CO
Aroclor 1248	101312	112667	CO
Aroclor 1248	101312	112667	CO
Aroclor 1248	101312	112667	CO
Aroclor 1248	101312	112667	CO
Aroclor 1254	268083	267290	BA
Aroclor 1254	268083	267290	BA
Aroclor 1254	268083	267290	BA
Aroclor 1254	268083	267290	BA
Aroclor 1254	268083	267290	BA
Aroclor 1260	663058	651804	CO
Aroclor 1260	663058	651804	CO
Aroclor 1260	663058	651804	CO
Aroclor 1260	663058	651804	CO
Aroclor 1260	663058	651804	CO
Tetrachloro-m-xylene	12404161	12404161	
Decachlorobiphenyl	10854763	10854763	

==========

SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010016
Date Analyzed: 04/24/2018 20:18
Lab File ID: 042418.B\042418031.D
Initial wt/vol: 9.9746 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)	24.9	J
11097-69-1	PCB-1254 (Aroclor 1254)	34.1	J
11096-82-5	PCB-1260 (Aroclor 1260)	19.4	J
1336-36-3	PCB, Total	78.5	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418031.D
Lab Smp Id: 40158010016 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 20:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010016,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.029	15493	10135	0.654	0.04		
1.158	37939	31152	0.821	0.10		
1.206	37589	24788	0.659	0.10		
1.253	14530	8612	0.593	0.03		
1.429	16507	12710	0.770	0.04		
1.686	20962	12962	0.618	0.05		
1.769	40994	43754	1.067	0.10		
1.829	12437	9662	0.777	0.03		
1.955	20014	16196	0.809	0.05		
2.170	15144	16190	1.069	0.04		
2.198	46672	27926	0.598	0.12		
2.293	21367	20623	0.965	0.05		
2.315	26998	24566	0.910	0.07		
2.357	12248	9778	0.798	0.03		
2.409	66604	56311	0.845	0.17		
2.484	11968344	11338528	0.947	32.55	$ 2 Tetrachloro-m-xylene	
2.615	15183	13096	0.863	0.04		
2.786	24833	19424	0.782	0.06		
2.859	27968	17377	0.621	0.07	4 Aroclor 1232	BA
2.975	51949	52011	1.001	0.13		
2.990	75498	65970	0.874	0.20		
3.019	53926	53498	0.992	0.14		
3.057	12055	10471	0.869	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.309	19501	12192	0.625	0.05	3 Aroclor 1242
3.344	16676	13355	0.801	0.04	
3.392	13650	9196	0.674	0.03	
3.433	13699	11941	0.872	0.03	
3.517	18331	13813	0.754	0.04	3 Aroclor 1242
3.729	15415	12769	0.828	0.04	
3.825	143321	91741	0.640	0.38	3 Aroclor 1242
3.936	28611	18103	0.633	0.07	3 Aroclor 1242
3.990	39461	29666	0.752	0.10	3 Aroclor 1242
4.058	19579	15648	0.799	0.05	
4.095	12465	8691	0.697	0.03	
4.214	142136	109625	0.771	0.37	
4.261	135641	121498	0.896	0.36	6 Aroclor 1248
4.292	122251	83845	0.686	0.32	
4.415	55785	49361	0.885	0.14	
4.453	49071	37829	0.771	0.13	
4.507	151718	144176	0.950	0.40	
4.545	143173	115557	0.807	0.38	6 Aroclor 1248
4.586	14711	12414	0.844	0.03	
4.609	12734	11677	0.917	0.03	
4.645	11281	9369	0.830	0.03	
4.738	21267	17031	0.801	0.05	
4.766	226956	218251	0.962	0.60	
4.811	115985	104443	0.900	0.30	6 Aroclor 1248
4.846	172964	158769	0.918	0.46	
4.878	333564	212126	0.636	0.88	6 Aroclor 1248
4.955	53022	37917	0.715	0.14	
5.003	31652	23859	0.754	0.08	
5.037	118853	103141	0.868	0.31	6 Aroclor 1248
5.060	37582	31583	0.840	0.10	
5.100	123032	103968	0.845	0.32	
5.120	79057	77395	0.979	0.21	
5.162	316261	272921	0.863	0.84	7 Aroclor 1254
5.212	285905	251733	0.880	0.76	
5.282	37607	32991	0.877	0.10	
5.314	159966	152590	0.954	0.42	
5.362	90259	63365	0.702	0.24	
5.407	154173	131508	0.853	0.41	7 Aroclor 1254
5.449	1332346	1247387	0.936	3.55	
5.508	350311	291243	0.831	0.93	7 Aroclor 1254
5.572	35464	24232	0.683	0.09	
5.602	68376	54995	0.804	0.18	
5.674	202792	163682	0.807	0.54	
5.709	74571	52537	0.705	0.19	
5.738	115237	74751	0.649	0.30	
5.789	673945	579837	0.860	1.79	
5.822	119970	136078	1.134	0.31	
5.837	200277	169748	0.848	0.53	
5.897	115124	65671	0.570	0.30	
5.929	41477	31093	0.750	0.11	
5.991	159962	144174	0.901	0.42	
6.024	281025	243231	0.866	0.74	7 Aroclor 1254
6.054	618105	541449	0.876	1.64	
6.120	52421	32940	0.628	0.13	
6.167	209686	96510	0.460	0.55	
6.240	154123	73713	0.478	0.41	
6.298	919945	782271	0.850	2.45	7 Aroclor 1254

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.333	101562	84502	0.832	0.27	
6.372	54722	30070	0.550	0.14	
6.430	111326	63780	0.573	0.29	
6.509	380200	341031	0.897	1.01	
6.534	177510	167171	0.942	0.47	
6.559	103815	93186	0.898	0.27	
6.604	37061	24655	0.665	0.09	
6.660	41499	33358	0.804	0.11	
6.716	159487	138477	0.868	0.42	
6.757	139101	118026	0.848	0.37	
6.800	140937	118222	0.839	0.37	
6.838	52087	41075	0.789	0.13	
6.941	165471	145165	0.877	0.44	
7.004	280378	249015	0.888	0.74	8 Aroclor 1260
7.033	76842	40651	0.529	0.20	
7.097	158230	64914	0.410	0.42	
7.179	27312	12134	0.444	0.07	
7.249	198072	169032	0.853	0.52	8 Aroclor 1260
7.280	125205	80068	0.639	0.33	
7.341	61562	37538	0.610	0.16	
7.390	99166	93165	0.939	0.26	
7.416	3783	11011	2.911	0.01	
7.440	141737	110115	0.777	0.37	8 Aroclor 1260
7.488	66336	30756	0.464	0.17	
7.525	49172	27101	0.551	0.13	
7.581	20803	17929	0.862	0.05	
7.626	26189	22239	0.849	0.06	
7.663	22466	26804	1.193	0.05	
7.698	27053	22834	0.844	0.07	
7.725	71111	44020	0.619	0.18	
7.762	63774	52174	0.818	0.17	
7.810	51790	31769	0.613	0.13	
7.878	28048	24201	0.863	0.07	
7.898	96623	69519	0.719	0.25	8 Aroclor 1260
7.955	123573	80510	0.652	0.32	
8.047	66014	55481	0.840	0.17	
8.072	18221	21005	1.153	0.04	
8.275	114792	101265	0.882	0.30	
8.316	17568	15572	0.886	0.04	
8.376	125178	89781	0.717	0.33	
8.448	62826	54990	0.875	0.16	
8.480	49797	40049	0.804	0.13	
8.569	10396414	9000472	0.866	27.72	$ 12 Decachlorobiphenyl
8.639	93022	50930	0.548	0.24	
8.719	52222	38963	0.746	0.13	
9.166	961967	873490	0.908	2.56	
9.214	92308	64394	0.698	0.24	
9.481	33849	21917	0.647	0.09	
9.558	27960	14263	0.510	0.07	
	37493867	32786128		100.000	

Total unknown % area = 30

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418031.D
Lab Smp Id: 40158010016 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 20:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010016,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.975	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			
2.484	2.484	0.000	11968343	0.09707	49			
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA
4 Aroclor 1232					CAS #: 1114-16-5			
Qualifier signal(s) failed ratio test.								BA

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	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	135640	0.05789	29	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	143172	0.03450	17	0.00- 20.00	105.55	CO
4.811	4.812	-0.001	115985	0.05713	29	0.00- 20.00	85.51	CO
4.877	4.879	-0.002	333563	0.06622	33	0.00- 20.00	245.92	CO
5.036	5.038	-0.002	118852	0.03312	17	0.00- 20.00	87.62	CO
Average of Peak Concentrations =					25			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	316260	0.06041	30	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	154172	0.03585	18	0.00- 20.00	48.75	BA
5.507	5.510	-0.003	350310	0.04511	23	0.00- 20.00	110.77	BA
6.023	6.027	-0.004	281025	0.05771	29	0.00- 20.00	88.86	BA
6.297	6.299	-0.002	919945	0.14138	71	0.00- 20.00	290.88	BA
Average of Peak Concentrations =					34			
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	280378	0.02800	14	0.00- 20.00	30.48	BA
7.248	7.251	-0.003	198071	0.04144	21	0.00- 20.00	21.53	BA
7.440	7.443	-0.003	141736	0.04862	24	0.00- 20.00	15.41	BA
7.897	7.901	-0.004	96622	0.03662	18	0.00- 20.00	10.50	BA
Average of Peak Concentrations =					19			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	10396414	0.09489	48			

QC Flag Legend

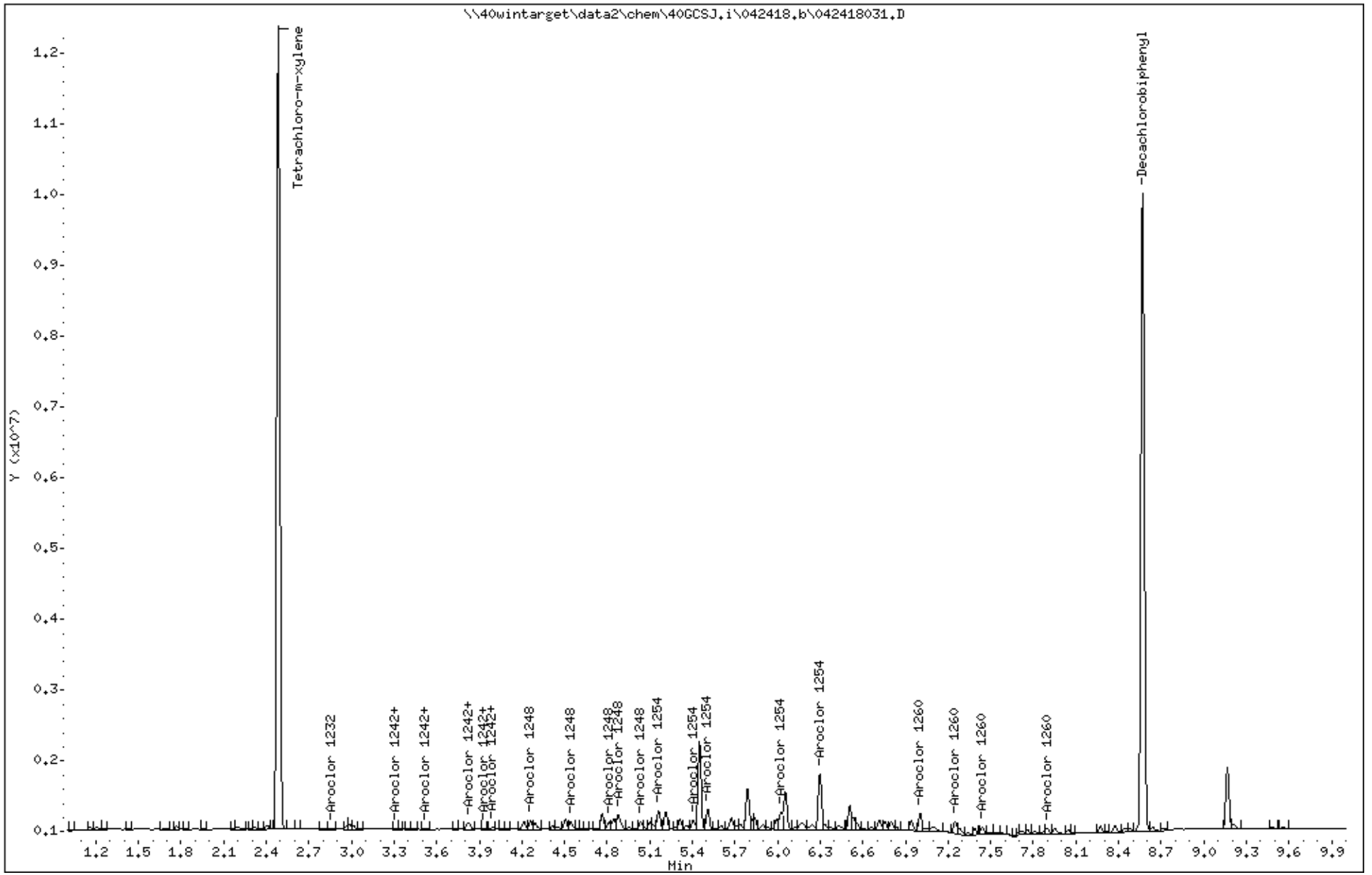
M - Compound response manually integrated.

Review Codes Legend

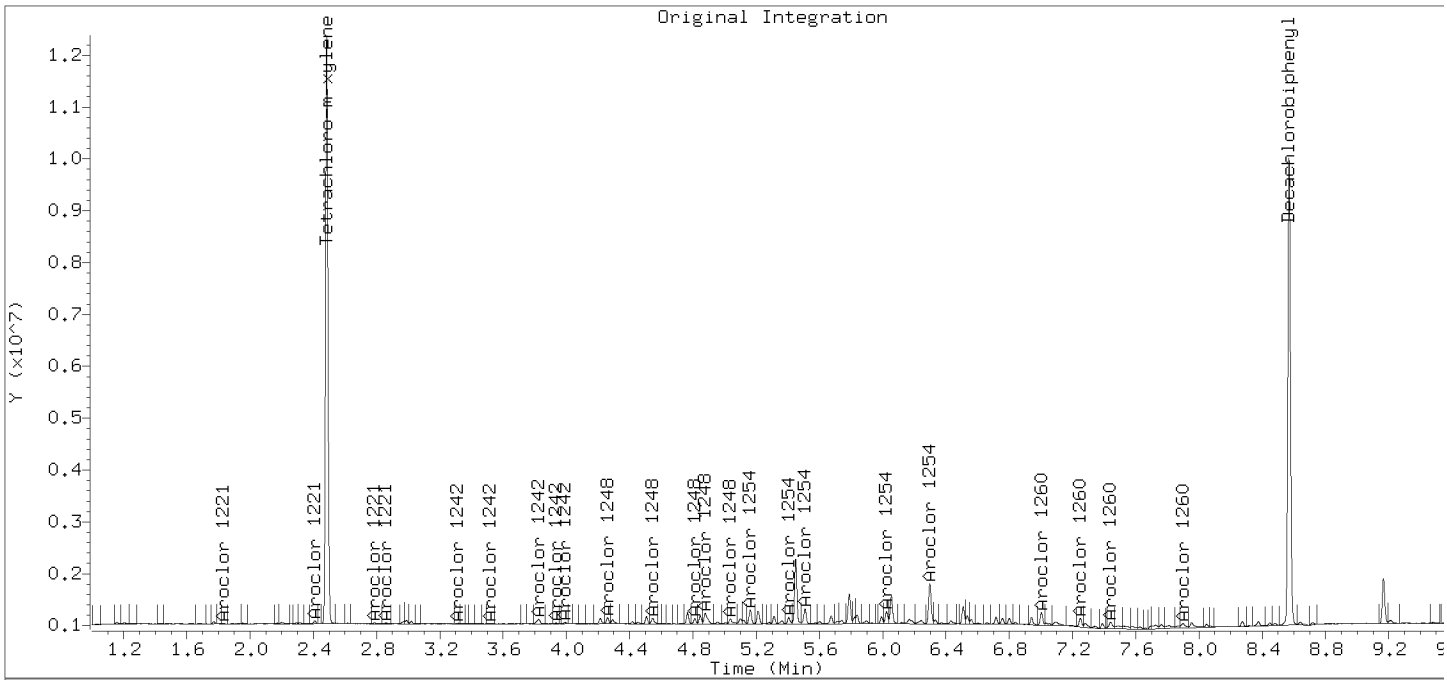
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

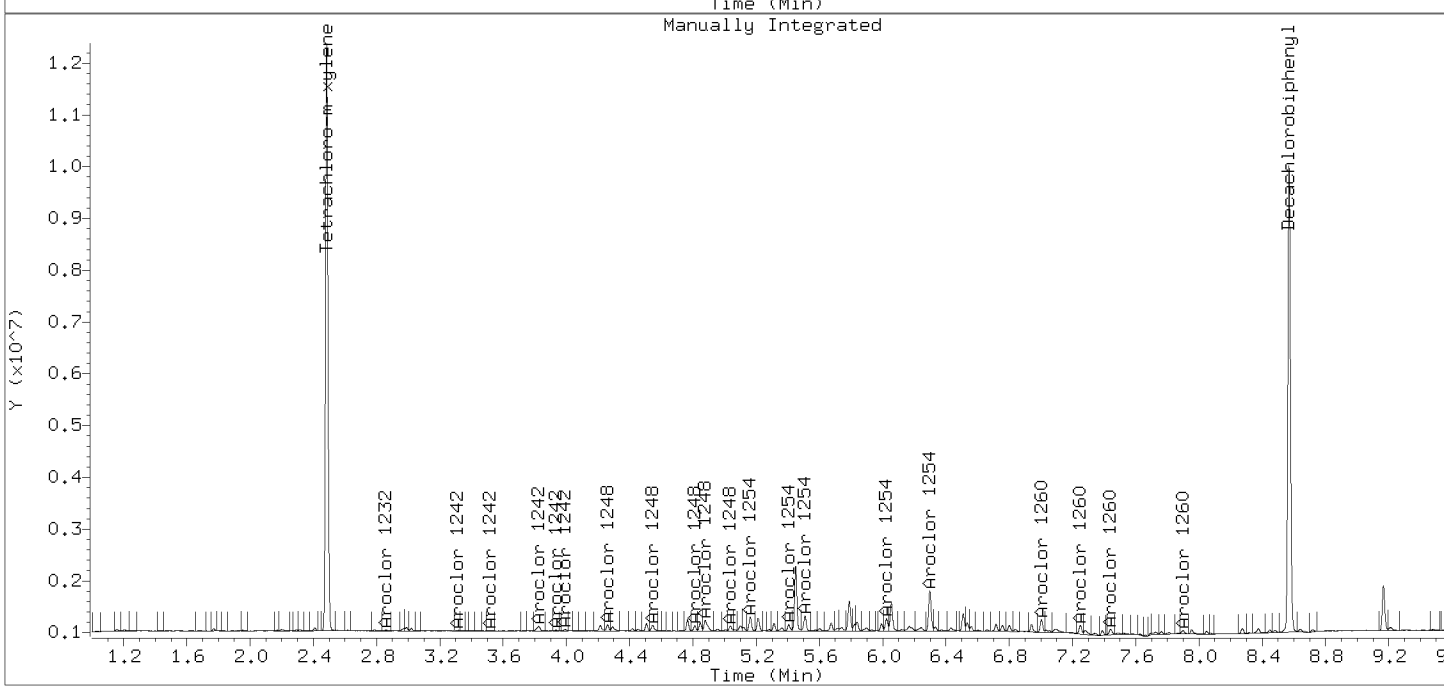
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418031.D
Date : 24-APR-2018 20:18
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010016,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 20:18 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010016





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	12437	0	
Aroclor 1221	12437	0	
Aroclor 1221	12437	0	
Aroclor 1221	12437	0	
Aroclor 1221	12437	0	
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA

Aroclor 1232	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	123136	135640	CO
Aroclor 1248	123136	135640	CO
Aroclor 1248	123136	135640	CO
Aroclor 1248	123136	135640	CO
Aroclor 1248	123136	135640	CO
Aroclor 1254	300212	316260	BA
Aroclor 1254	300212	316260	BA
Aroclor 1254	300212	316260	BA
Aroclor 1254	300212	316260	BA
Aroclor 1254	300212	316260	BA
Aroclor 1260	897950	0	BA
Aroclor 1260	897950	0	BA
Aroclor 1260	897950	0	BA
Aroclor 1260	897950	0	BA
Aroclor 1260	897950	0	BA
Tetrachloro-m-xylene	11968343	11968343	
Decachlorobiphenyl	10396414	10396414	

==========

SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010017
Date Analyzed: 04/24/2018 20:34
Lab File ID: 042418.B\042418032.D
Initial wt/vol: 9.9821 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)	27.9	J
11097-69-1	PCB-1254 (Aroclor 1254)	30.7	J
11096-82-5	PCB-1260 (Aroclor 1260)	16.6	J
1336-36-3	PCB, Total	75.2	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418032.D
Lab Smp Id: 40158010017 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 20:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010017,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.982	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.029	19562	11805	0.603	0.05		
1.159	29941	25840	0.863	0.08		
1.203	9358	8144	0.870	0.02		
1.428	11720	12692	1.083	0.03		
1.682	21830	14127	0.647	0.06		
1.771	55377	57020	1.030	0.15		
1.795	12703	11836	0.932	0.03		
1.833	10924	11744	1.075	0.03		
1.954	10551	10009	0.949	0.02		
2.124	22173	13850	0.625	0.06		
2.171	20351	22021	1.082	0.05		
2.196	33326	19834	0.595	0.09		
2.292	29090	27542	0.947	0.08		
2.316	32208	32388	1.006	0.09		
2.358	10805	9831	0.910	0.03		
2.408	66296	58470	0.882	0.18		
2.484	11957149	11496314	0.961	34.11	$ 2 Tetrachloro-m-xylene	
2.552	10260	9862	0.961	0.02		
2.789	25862	19513	0.754	0.07		
2.859	27516	18010	0.655	0.07		
2.976	131045	51612	0.394	0.36		
3.019	43447	43831	1.009	0.12		
3.159	13394	9159	0.684	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.316	22494	20653	0.918	0.06	3 Aroclor 1242
3.344	17927	16158	0.901	0.05	
3.402	24787	15847	0.639	0.06	
3.431	13623	10059	0.738	0.03	
3.518	19051	13526	0.710	0.05	3 Aroclor 1242
3.692	15556	15039	0.967	0.04	
3.732	19945	13878	0.696	0.05	
3.826	158124	106766	0.675	0.44	3 Aroclor 1242
3.929	35436	20862	0.589	0.09	3 Aroclor 1242
3.994	46514	32482	0.698	0.13	3 Aroclor 1242
4.054	25921	15628	0.603	0.07	
4.214	156398	128260	0.820	0.43	
4.261	144450	138100	0.956	0.40	6 Aroclor 1248
4.292	132180	95187	0.720	0.37	
4.350	21679	13379	0.617	0.06	
4.416	67774	62766	0.926	0.18	
4.450	58493	49430	0.845	0.16	
4.499	47270	34794	0.736	0.13	
4.545	150677	133815	0.888	0.42	6 Aroclor 1248
4.738	17905	16188	0.904	0.05	
4.765	113571	103578	0.912	0.31	
4.812	139214	123000	0.884	0.39	6 Aroclor 1248
4.845	178627	170359	0.954	0.50	
4.878	382322	237046	0.620	1.07	6 Aroclor 1248
4.956	59080	43058	0.729	0.16	
4.999	30158	24112	0.800	0.08	
5.035	129477	118350	0.914	0.36	6 Aroclor 1248
5.060	43460	36205	0.833	0.12	
5.099	175723	121803	0.693	0.49	
5.160	286241	249960	0.873	0.80	7 Aroclor 1254
5.213	313453	273350	0.872	0.87	
5.253	23108	22404	0.970	0.06	
5.282	34105	32963	0.967	0.09	
5.312	121960	110466	0.906	0.34	
5.362	97994	79103	0.807	0.27	
5.405	154775	136253	0.880	0.43	7 Aroclor 1254
5.451	1068412	1055034	0.987	2.99	
5.509	354327	300888	0.849	0.99	7 Aroclor 1254
5.575	37352	26101	0.699	0.10	
5.600	73692	60852	0.826	0.20	
5.673	149843	130256	0.869	0.41	
5.709	68042	49358	0.725	0.19	
5.740	89389	66925	0.749	0.25	
5.788	634880	532138	0.838	1.77	
5.821	231689	150601	0.650	0.64	
5.898	125170	72166	0.577	0.35	
5.930	32469	27364	0.843	0.09	
5.991	136109	125505	0.922	0.38	
6.023	266933	230720	0.864	0.74	7 Aroclor 1254
6.055	491957	427391	0.869	1.37	
6.121	44892	30651	0.683	0.12	
6.167	179165	85081	0.475	0.50	
6.242	122347	67510	0.552	0.34	
6.297	749070	634259	0.847	2.09	7 Aroclor 1254
6.332	79432	69681	0.877	0.22	
6.368	33491	25392	0.758	0.09	
6.431	89867	53037	0.590	0.25	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.509	268015	247689	0.924	0.75	
6.533	140953	133000	0.944	0.39	
6.560	94637	82695	0.874	0.26	
6.605	24350	17274	0.709	0.06	
6.658	33566	28768	0.857	0.09	
6.717	146228	130517	0.893	0.40	
6.757	135619	119188	0.879	0.38	
6.800	131730	113821	0.864	0.36	
6.840	49700	38161	0.768	0.13	
6.911	9977	10190	1.021	0.02	
6.941	173284	150331	0.868	0.48	
7.004	266435	234865	0.882	0.74	8 Aroclor 1260
7.032	24642	25257	1.025	0.06	
7.054	14733	21172	1.437	0.04	
7.093	156597	60227	0.385	0.43	
7.179	46139	17194	0.373	0.12	
7.248	173544	150642	0.868	0.48	8 Aroclor 1260
7.279	116090	72254	0.622	0.32	
7.339	57022	32073	0.562	0.15	
7.389	78344	75150	0.959	0.21	
7.441	132111	97964	0.742	0.37	8 Aroclor 1260
7.483	62468	38340	0.614	0.17	
7.528	62350	35472	0.569	0.17	
7.576	20585	16505	0.802	0.05	
7.607	2734	6436	2.354	0.00	
7.624	22961	16685	0.727	0.06	
7.664	18916	22611	1.195	0.05	
7.695	25451	28155	1.106	0.07	
7.723	63230	37297	0.590	0.17	
7.762	55367	45379	0.820	0.15	
7.811	60103	37913	0.631	0.16	
7.880	21324	16331	0.766	0.05	
7.900	64986	51515	0.793	0.18	8 Aroclor 1260
7.954	81367	55668	0.684	0.22	
8.047	77669	71200	0.917	0.21	
8.072	46795	43495	0.929	0.13	
8.273	96645	87938	0.910	0.27	
8.315	15568	14544	0.934	0.04	
8.373	116297	94242	0.810	0.32	
8.445	51635	47146	0.913	0.14	
8.478	45561	35819	0.786	0.12	
8.569	10324367	9207181	0.892	28.93	$ 12 Decachlorobiphenyl
8.639	39405	32837	0.833	0.11	
8.720	41157	24255	0.589	0.11	
8.798	10397	9273	0.892	0.02	
8.930	16219	6721	0.414	0.04	
9.165	768507	685225	0.892	2.15	
9.212	38332	27072	0.706	0.10	
9.476	19912	19456	0.977	0.05	
	35686916	31724334		100.000	

Total unknown % area = 27

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418032.D
Lab Smp Id: 40158010017 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 20:34
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010017,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.982	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	11957148	0.09698	48			
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA
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	144449	0.06165	31	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	150677	0.03631	18	0.00- 20.00	104.31	BA
4.811	4.812	-0.001	139213	0.06858	34	0.00- 20.00	96.38	BA
4.877	4.879	-0.002	382321	0.07590	38	0.00- 20.00	264.68	BA
5.035	5.038	-0.003	129477	0.03608	18	0.00- 20.00	89.64	BA
Average of Peak Concentrations =					28			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	286241	0.05468	27	0.00- 20.00	100.00(M)	BA
5.404	5.408	-0.004	154774	0.03599	18	0.00- 20.00	54.07	BA
5.509	5.510	-0.001	354327	0.04563	23	0.00- 20.00	123.79	BA
6.023	6.027	-0.004	266933	0.05482	27	0.00- 20.00	93.25	BA
6.297	6.299	-0.002	749070	0.11512	58	0.00- 20.00	261.69	BA
Average of Peak Concentrations =					31			
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	266434	0.02661	13	0.00- 20.00	38.81	CO
7.248	7.251	-0.003	173544	0.03631	18	0.00- 20.00	23.17	CO
7.441	7.443	-0.002	132111	0.04532	23	0.00- 20.00	17.64	CO
7.900	7.901	-0.001	64985	0.02463	12	0.00- 20.00	8.68	CO
Average of Peak Concentrations =					17			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10324366	0.09423	47			

QC Flag Legend

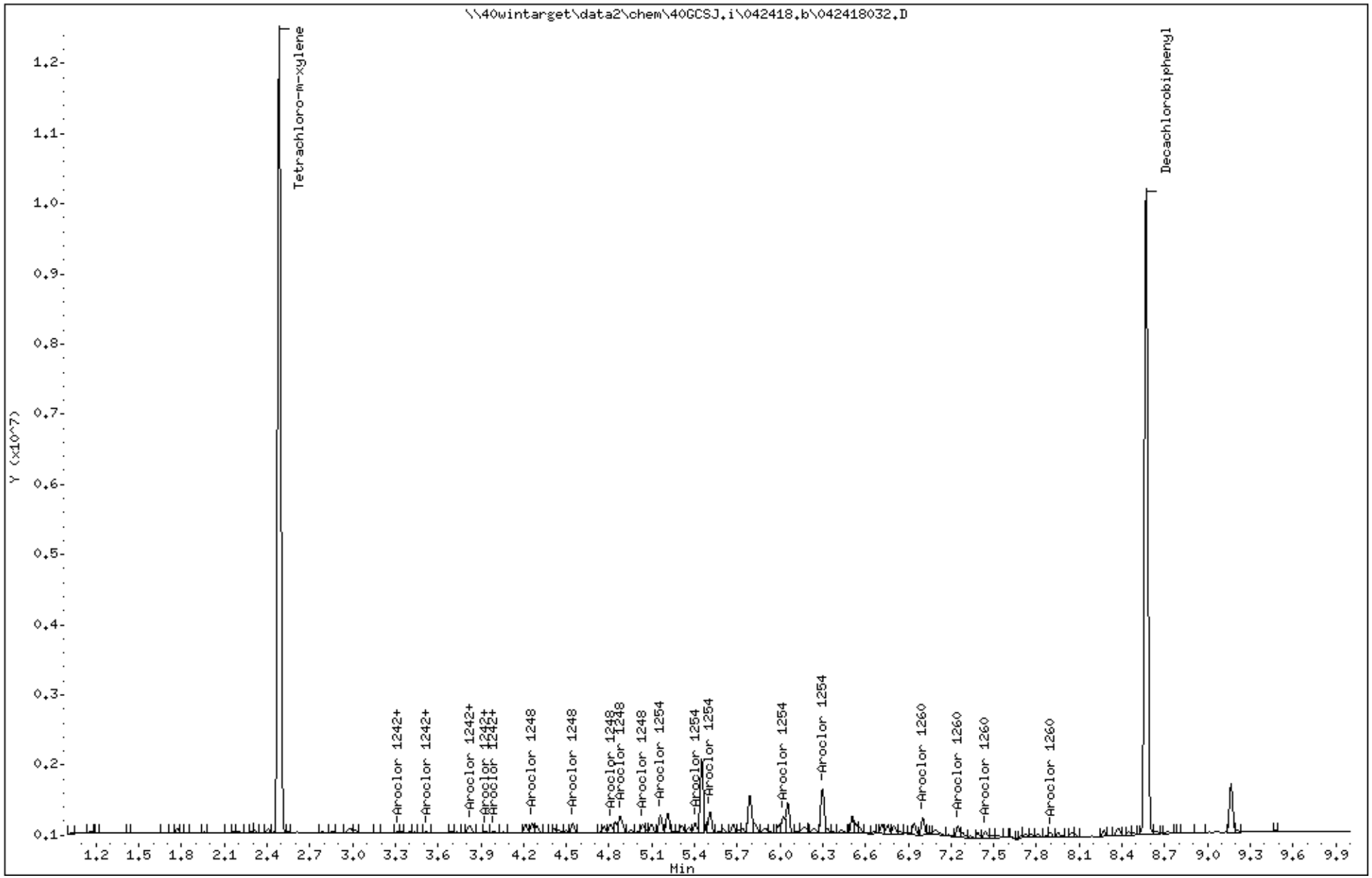
M - Compound response manually integrated.

Review Codes Legend

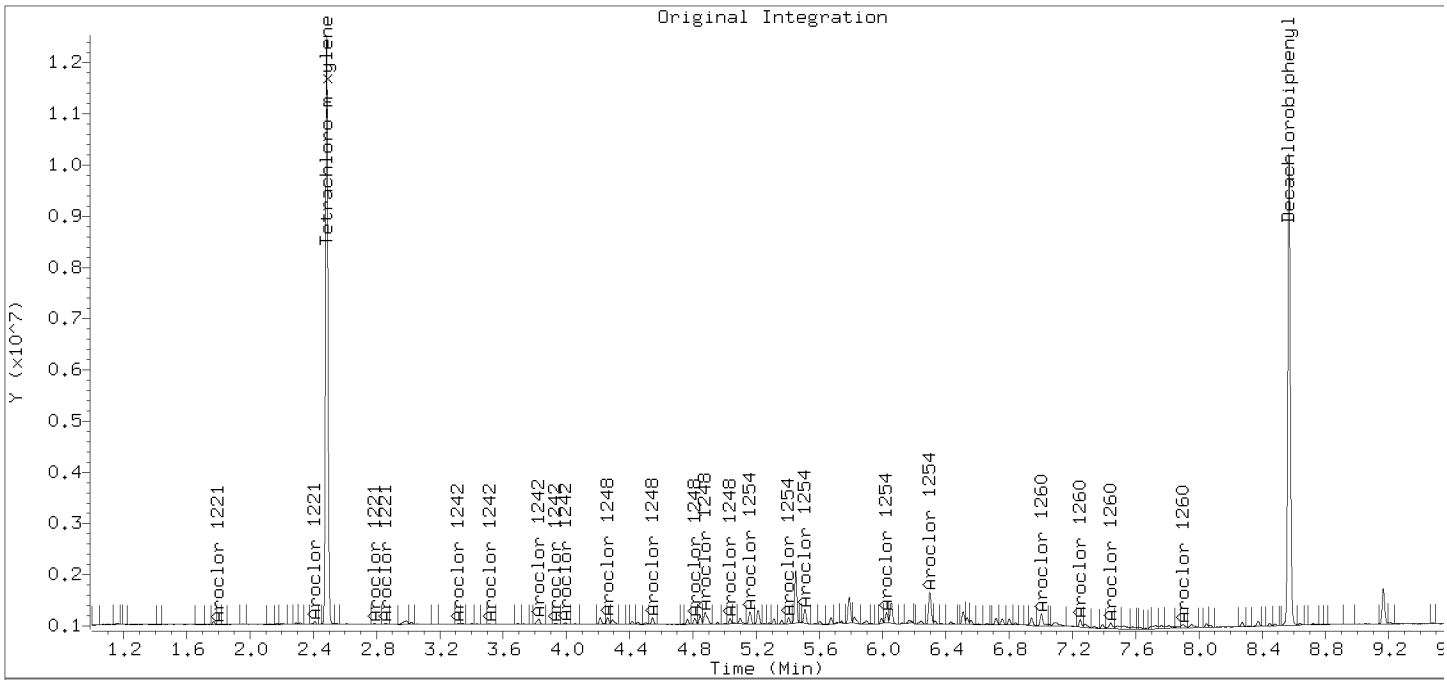
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

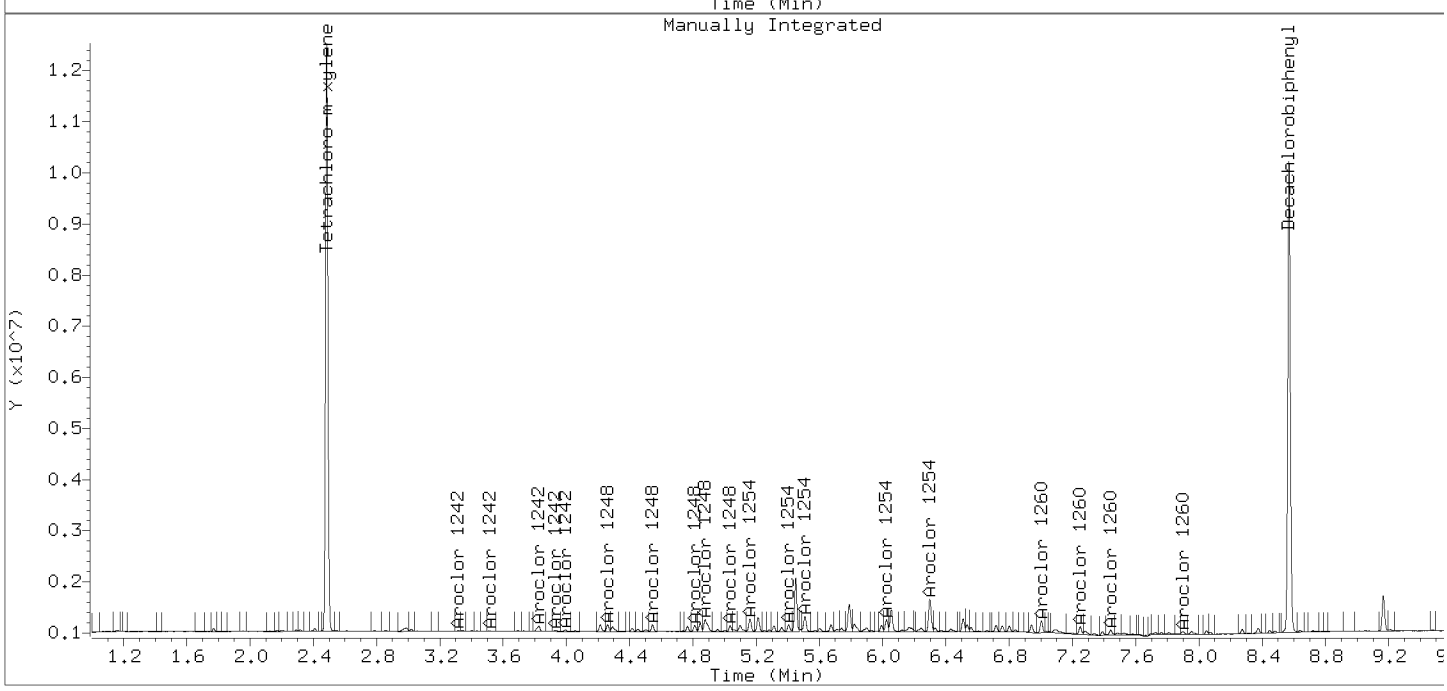
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418032.D
Date : 24-APR-2018 20:34
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010017,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 20:34 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010017





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	12702	0	
Aroclor 1221	12702	0	
Aroclor 1221	12702	0	
Aroclor 1221	12702	0	
Aroclor 1221	12702	0	
Aroclor 1232	27516	0	
Aroclor 1232	27516	0	
Aroclor 1232	27516	0	
Aroclor 1232	27516	0	

Aroclor 1232	27516	0	
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	137675	144449	BA
Aroclor 1248	137675	144449	BA
Aroclor 1248	137675	144449	BA
Aroclor 1248	137675	144449	BA
Aroclor 1248	137675	144449	BA
Aroclor 1254	259775	286241	BA
Aroclor 1254	259775	286241	BA
Aroclor 1254	259775	286241	BA
Aroclor 1254	259775	286241	BA
Aroclor 1254	259775	286241	BA
Aroclor 1260	732235	0	CO
Aroclor 1260	732235	0	CO
Aroclor 1260	732235	0	CO
Aroclor 1260	732235	0	CO
Aroclor 1260	732235	0	CO
Tetrachloro-m-xylene	11957148	11957148	
Decachlorobiphenyl	10324366	10324366	

==========

SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010018
Date Analyzed: 04/24/2018 20:50
Lab File ID: 042418.B\042418033.D
Initial wt/vol: 10.0151 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	38.0	J
11097-69-1	PCB-1254 (Aroclor 1254)	32.2	J
11096-82-5	PCB-1260 (Aroclor 1260)	21.1	J
1336-36-3	PCB, Total	91.3	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418033.D
Lab Smp Id: 40158010018 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 20:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010018,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 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	10.015	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.030	21404	13193	0.616	0.05		
1.064	12727	9663	0.759	0.03		
1.101	10811	8722	0.807	0.02		
1.161	53246	33670	0.632	0.14		
1.199	15544	11237	0.723	0.04		
1.433	12175	9224	0.758	0.03		
1.538	13747	9774	0.711	0.03		
1.671	10905	9202	0.844	0.02		
1.770	86152	66888	0.776	0.23		
1.835	10867	9729	0.895	0.02		
1.954	13052	13383	1.025	0.03		
2.064	11569	9134	0.790	0.03		
2.127	14958	11874	0.794	0.04		
2.170	15466	15403	0.996	0.04		
2.197	43024	25428	0.591	0.11		
2.295	19687	19115	0.971	0.05		
2.316	25690	24671	0.960	0.06		
2.410	100549	89406	0.889	0.27		
2.485	11466373	10792373	0.941	31.70	$ 2 Tetrachloro-m-xylene	
2.619	13298	11401	0.857	0.03		
2.647	10179	7873	0.773	0.02		
2.787	24314	20288	0.834	0.06		
2.860	23280	13139	0.564	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.989	151249	79507	0.526	0.40	
3.019	55416	50840	0.917	0.14	
3.053	17937	16383	0.913	0.04	
3.319	33380	30913	0.926	0.09	3 Aroclor 1242
3.344	27963	23898	0.855	0.07	
3.399	9353	9728	1.040	0.02	
3.436	22366	19261	0.861	0.06	
3.519	31558	25242	0.800	0.08	3 Aroclor 1242
3.731	24095	22565	0.936	0.06	
3.755	14086	15837	1.124	0.03	
3.827	262561	168225	0.641	0.71	3 Aroclor 1242
3.936	57233	31069	0.543	0.15	3 Aroclor 1242
3.995	75568	54874	0.726	0.20	3 Aroclor 1242
4.058	38844	25137	0.647	0.10	
4.100	17355	11057	0.637	0.04	
4.214	238888	202602	0.848	0.64	
4.261	229001	207434	0.906	0.61	6 Aroclor 1248
4.292	213781	159028	0.744	0.57	
4.349	24167	17294	0.716	0.06	
4.415	103002	94448	0.917	0.27	
4.453	80206	75207	0.938	0.21	
4.505	44506	33195	0.746	0.12	
4.545	214753	191895	0.894	0.58	6 Aroclor 1248
4.617	19618	15919	0.811	0.05	
4.678	17917	14929	0.833	0.04	
4.736	33729	21399	0.634	0.09	
4.766	196013	187768	0.958	0.53	
4.812	178410	163562	0.917	0.48	6 Aroclor 1248
4.848	211984	196166	0.925	0.57	
4.878	468678	296200	0.632	1.26	6 Aroclor 1248
4.956	68871	54713	0.794	0.18	
5.003	32940	26602	0.808	0.08	
5.036	180028	161736	0.898	0.48	6 Aroclor 1248
5.058	27643	28594	1.034	0.07	
5.099	217136	139112	0.641	0.58	
5.162	351772	303786	0.864	0.95	7 Aroclor 1254
5.211	311907	275000	0.882	0.84	
5.255	28746	23980	0.834	0.07	
5.281	35082	34033	0.970	0.09	
5.313	133972	121553	0.907	0.36	
5.361	122776	90656	0.738	0.33	
5.406	180320	159316	0.884	0.48	7 Aroclor 1254
5.451	1138278	1070247	0.940	3.08	
5.508	368767	328269	0.890	0.99	7 Aroclor 1254
5.573	36752	26699	0.726	0.09	
5.603	78888	63373	0.803	0.21	
5.674	146227	119686	0.818	0.39	
5.710	74356	51009	0.686	0.20	
5.739	103806	72867	0.702	0.28	
5.788	609428	524242	0.860	1.64	
5.821	144571	147153	1.018	0.39	
5.837	170372	156769	0.920	0.46	
5.899	108037	59523	0.551	0.29	
5.930	38605	31587	0.818	0.10	
5.992	151508	142180	0.938	0.41	
6.024	261418	226757	0.867	0.70	7 Aroclor 1254
6.055	558870	491589	0.880	1.51	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.168	181447	86804	0.478	0.49	
6.242	132075	71529	0.542	0.35	
6.298	728894	625393	0.858	1.97	7 Aroclor 1254
6.331	83460	71759	0.860	0.22	
6.370	41956	28776	0.686	0.11	
6.430	93541	49868	0.533	0.25	
6.508	263433	232253	0.882	0.71	
6.534	148395	133443	0.899	0.40	
6.560	96712	83464	0.863	0.26	
6.603	26974	19389	0.719	0.07	
6.659	31420	26509	0.844	0.08	
6.716	119390	95543	0.800	0.32	
6.756	122959	104413	0.849	0.33	
6.801	127884	101658	0.795	0.34	
6.840	57889	38501	0.665	0.15	
6.912	10705	11136	1.040	0.02	
6.941	165998	145645	0.877	0.44	
7.002	290879	262143	0.901	0.78	8 Aroclor 1260
7.032	21382	24333	1.138	0.05	
7.053	16804	19322	1.150	0.04	
7.100	87587	41448	0.473	0.23	
7.249	166810	150031	0.899	0.45	8 Aroclor 1260
7.280	112644	69577	0.618	0.30	
7.343	65088	37852	0.582	0.17	
7.389	84508	77538	0.918	0.22	
7.440	147825	101078	0.684	0.40	8 Aroclor 1260
7.485	70660	42066	0.595	0.19	
7.526	85419	45319	0.531	0.23	
7.578	35401	22737	0.642	0.09	
7.628	28465	25667	0.902	0.07	
7.664	18030	23250	1.289	0.04	
7.696	30747	28986	0.943	0.08	
7.727	58968	37710	0.639	0.15	
7.763	57898	42200	0.729	0.15	
7.808	52898	35371	0.669	0.14	
7.899	144032	72880	0.506	0.38	8 Aroclor 1260
7.953	88626	67381	0.760	0.23	
8.046	64035	59264	0.925	0.17	
8.070	19712	20276	1.029	0.05	
8.273	104566	92704	0.887	0.28	
8.314	18091	17014	0.940	0.04	
8.374	169637	127982	0.754	0.45	
8.446	50786	46955	0.925	0.13	
8.480	55887	47828	0.856	0.15	
8.569	10113951	8804460	0.871	27.37	$ 12 Decachlorobiphenyl
8.643	73428	41407	0.564	0.19	
8.719	49483	33114	0.669	0.13	
9.046	10300	8912	0.865	0.02	
9.166	1257819	1137348	0.904	3.40	
9.482	28176	20703	0.735	0.07	
9.570	10663	6423	0.602	0.02	
	36948046	32244765		100.000	

Total unknown % area = 29

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418033.D
Lab Smp Id: 40158010018 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 20:50
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010018,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 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	10.015	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	11466373	0.09300	46			
3 Aroclor 1242					CAS #: 53469-21-9			
Qualifier signal(s) failed ratio test.								BA
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	229001	0.09774	49	0.00- 20.00	100.00(M)	CO
4.544	4.546	-0.002	214752	0.05174	26	0.00- 20.00	93.78	CO
4.811	4.812	-0.001	178409	0.08788	44	0.00- 20.00	77.91	CO
4.877	4.879	-0.002	468677	0.09304	46	0.00- 20.00	204.66	CO
5.036	5.038	-0.002	180028	0.05017	25	0.00- 20.00	78.61	CO
		Average of Peak Concentrations =			38			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	351772	0.06719	34	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	180320	0.04192	21	0.00- 20.00	51.26	BA
5.507	5.510	-0.003	368767	0.04748	24	0.00- 20.00	104.83	BA
6.023	6.027	-0.004	261417	0.05368	27	0.00- 20.00	74.31	BA
6.297	6.299	-0.002	728893	0.11201	56	0.00- 20.00	207.21	BA
		Average of Peak Concentrations =			32			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.002	7.006	-0.004	290879	0.02905	14	0.00- 20.00	42.79	CO
7.248	7.251	-0.003	166809	0.03490	17	0.00- 20.00	22.89	CO
7.439	7.443	-0.004	147824	0.05071	25	0.00- 20.00	20.28	CO
7.898	7.901	-0.003	144032	0.05458	27	0.00- 20.00	19.76	CO
		Average of Peak Concentrations =			21			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10113950	0.09231	46			

QC Flag Legend

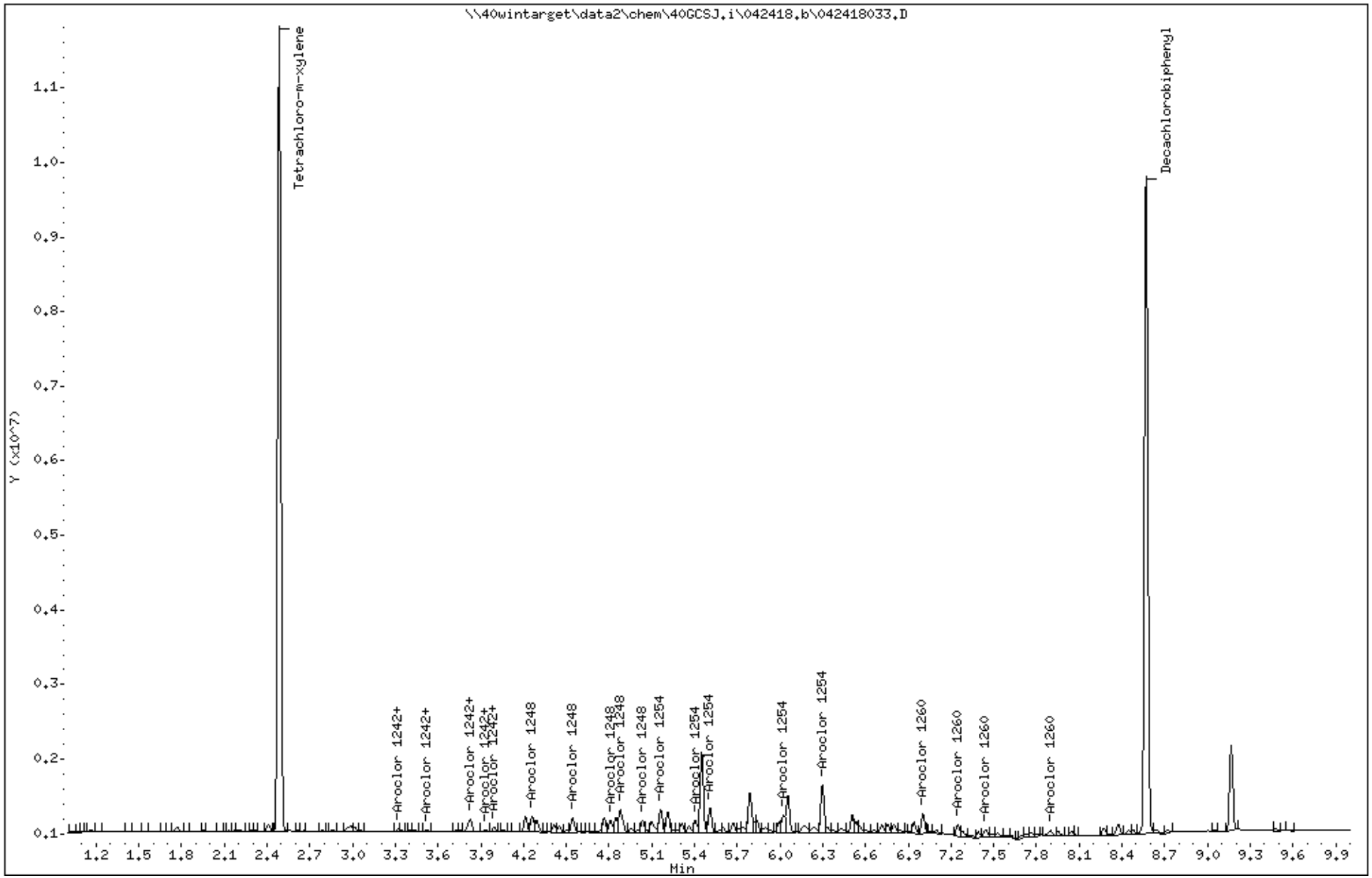
M - Compound response manually integrated.

Review Codes Legend

:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
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\042418.b\042418033.D
Date : 24-APR-2018 20:50
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010018,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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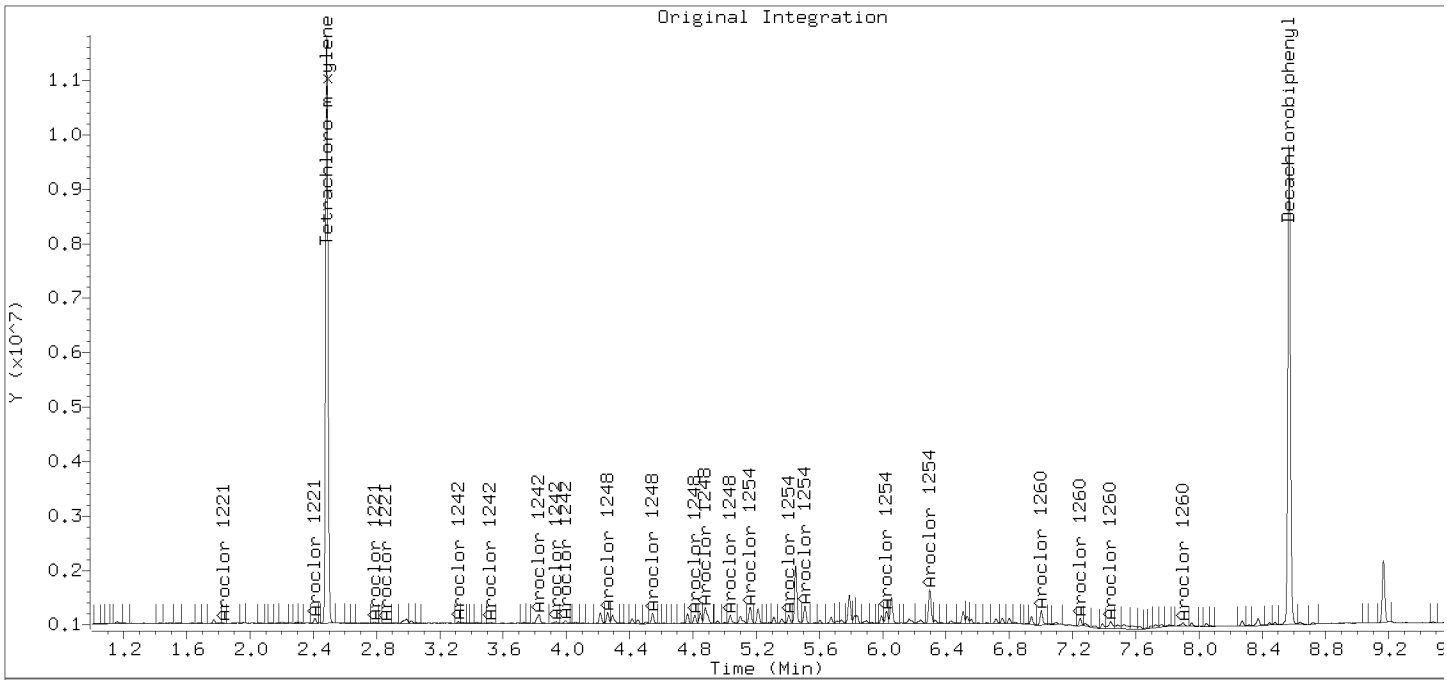
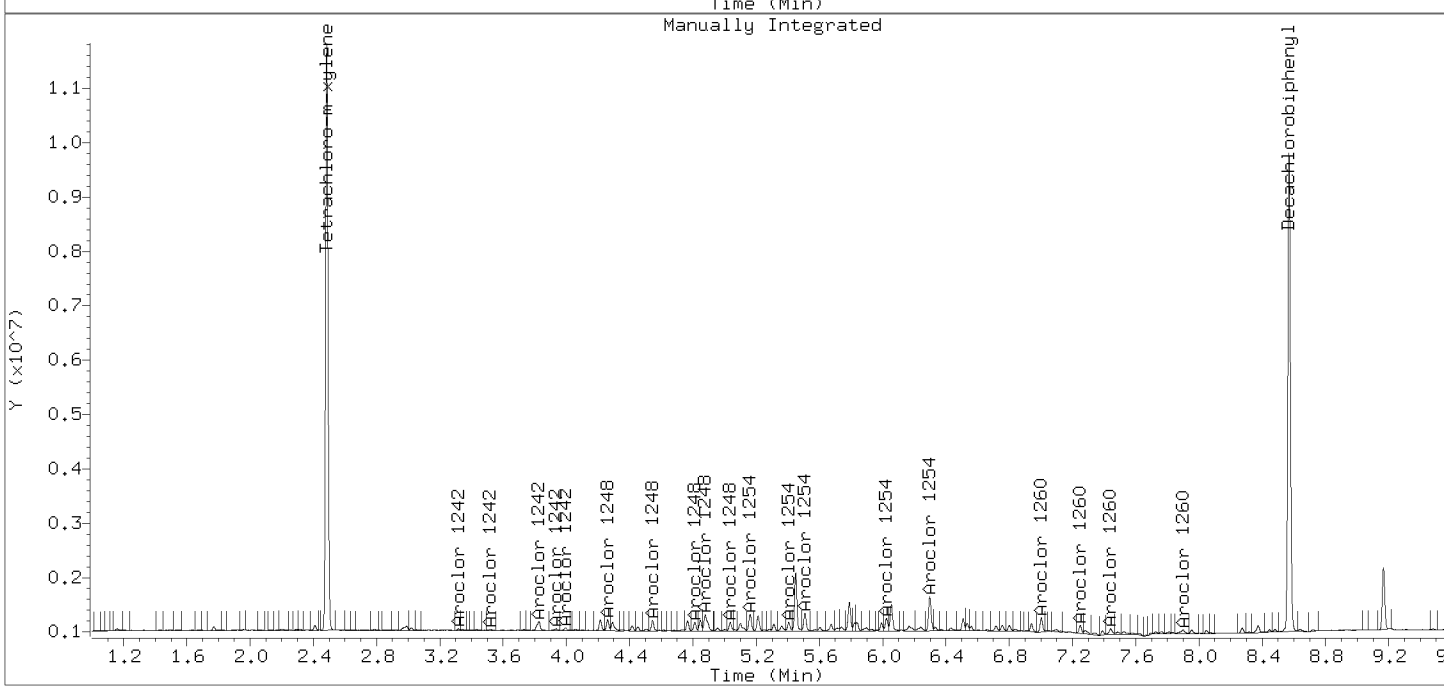
Injection Date: 24-APR-2018 20:50 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010018





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	10867	0	
Aroclor 1221	10867	0	
Aroclor 1221	10867	0	
Aroclor 1221	10867	0	
Aroclor 1221	10867	0	
Aroclor 1232	23280	0	
Aroclor 1232	23280	0	
Aroclor 1232	23280	0	
Aroclor 1232	23280	0	

Aroclor 1232	23280	0	
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	214645	229001	CO
Aroclor 1248	214645	229001	CO
Aroclor 1248	214645	229001	CO
Aroclor 1248	214645	229001	CO
Aroclor 1248	214645	229001	CO
Aroclor 1254	336941	351772	BA
Aroclor 1254	336941	351772	BA
Aroclor 1254	336941	351772	BA
Aroclor 1254	336941	351772	BA
Aroclor 1254	336941	351772	BA
Aroclor 1260	712658	0	CO
Aroclor 1260	712658	0	CO
Aroclor 1260	712658	0	CO
Aroclor 1260	712658	0	CO
Aroclor 1260	712658	0	CO
Tetrachloro-m-xylene	11466373	11466373	
Decachlorobiphenyl	10113950	10113950	

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SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010019
Date Analyzed: 04/24/2018 21:06
Lab File ID: 042418.B\042418034.D
Initial wt/vol: 9.0847 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)	<12.5	U
11104-28-2	PCB-1221 (Aroclor 1221)	<12.5	U
11141-16-5	PCB-1232 (Aroclor 1232)	<12.5	U
53469-21-9	PCB-1242 (Aroclor 1242)	<12.5	U
12672-29-6	PCB-1248 (Aroclor 1248)	16.9	J
11097-69-1	PCB-1254 (Aroclor 1254)	16.6	J
11096-82-5	PCB-1260 (Aroclor 1260)	<12.5	U
1336-36-3	PCB, Total	33.5	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418034.D
Lab Smp Id: 40158010019 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 21:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010019,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.085	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.025	15967	11427	0.716	0.05		
1.159	24462	17864	0.730	0.08		
1.248	9848	8442	0.857	0.03		
1.433	16389	10220	0.624	0.05		
1.538	11380	8612	0.757	0.03		
1.684	10653	10818	1.016	0.03		
1.768	29096	27540	0.947	0.09		
1.952	11869	11415	0.962	0.04		
2.170	9443	10076	1.067	0.03		
2.201	34218	21337	0.624	0.11		
2.291	28605	21314	0.745	0.09		
2.410	53090	50351	0.948	0.18		
2.485	11667329	10648419	0.913	40.61	$ 2 Tetrachloro-m-xylene	
2.788	21911	16626	0.759	0.07		
2.854	9879	7044	0.713	0.03		
2.973	81136	36603	0.451	0.27		
3.020	27442	27610	1.006	0.09		
3.320	17606	14783	0.840	0.06	5 Aroclor 1016	BA
3.346	11429	11057	0.967	0.03		
3.426	9536	6433	0.675	0.03		
3.734	13201	10245	0.776	0.04		
3.754	11181	8408	0.752	0.03		
3.826	107618	68797	0.639	0.36	5 Aroclor 1016	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.932	20814	13124	0.631	0.07	5 Aroclor 1016
3.992	30375	23326	0.768	0.10	5 Aroclor 1016
4.051	20639	14685	0.712	0.07	
4.213	101493	82743	0.815	0.34	
4.261	90018	81373	0.904	0.30	6 Aroclor 1248
4.291	83374	57772	0.693	0.28	
4.419	48078	39110	0.813	0.16	
4.453	42570	30643	0.720	0.14	
4.501	47174	31801	0.674	0.16	
4.544	94182	73441	0.780	0.32	6 Aroclor 1248
4.766	137622	132072	0.960	0.47	
4.812	72341	65198	0.901	0.24	6 Aroclor 1248
4.846	102576	92028	0.897	0.35	
4.878	195321	121706	0.623	0.67	6 Aroclor 1248
4.954	35157	23104	0.657	0.12	
5.035	65454	62452	0.954	0.22	6 Aroclor 1248
5.063	25597	23461	0.917	0.08	
5.099	112816	59697	0.529	0.38	
5.162	166375	145967	0.877	0.57	7 Aroclor 1254
5.212	147312	133843	0.909	0.50	
5.282	17931	16844	0.939	0.06	
5.313	95652	91355	0.955	0.32	
5.361	48507	37153	0.766	0.16	
5.405	79290	69001	0.870	0.27	7 Aroclor 1254
5.449	520129	497649	0.957	1.78	
5.509	174209	147728	0.848	0.59	7 Aroclor 1254
5.604	47678	38556	0.809	0.16	
5.674	64095	51861	0.809	0.22	
5.740	38436	29169	0.759	0.13	
5.788	279696	227767	0.814	0.96	
5.822	59699	70212	1.176	0.20	
5.839	117479	105851	0.901	0.40	
5.900	53726	31194	0.581	0.18	
5.992	66338	62407	0.941	0.22	
6.025	110826	99925	0.902	0.38	7 Aroclor 1254
6.054	281435	248581	0.883	0.96	
6.124	28509	17631	0.618	0.09	
6.168	67008	41703	0.622	0.23	
6.230	20162	19685	0.976	0.06	
6.244	39397	32029	0.813	0.13	
6.298	360698	307711	0.853	1.23	7 Aroclor 1254
6.333	34074	32236	0.946	0.11	
6.369	13132	12502	0.952	0.04	
6.431	33120	21471	0.648	0.11	
6.507	118441	106938	0.903	0.40	
6.534	114670	69987	0.610	0.39	
6.662	23708	16136	0.681	0.08	
6.699	15981	16051	1.004	0.05	
6.716	57189	43366	0.758	0.19	
6.757	78330	47838	0.611	0.26	
6.800	75881	54688	0.721	0.26	
6.838	58007	29655	0.511	0.19	
6.904	12897	12496	0.969	0.04	
6.941	118609	92741	0.782	0.40	
7.004	145548	118875	0.817	0.49	8 Aroclor 1260
7.028	13364	17200	1.287	0.04	
7.093	98453	42790	0.435	0.33	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.249	105492	79219	0.751	0.36	8 Aroclor 1260
7.282	91878	47632	0.518	0.31	
7.340	52326	30393	0.581	0.17	
7.393	37470	33666	0.898	0.12	
7.443	85116	54202	0.637	0.29	8 Aroclor 1260
7.486	48052	24345	0.507	0.16	
7.579	27504	22364	0.813	0.09	
7.623	35806	23694	0.662	0.12	
7.664	17165	19827	1.155	0.05	
7.699	15432	15856	1.027	0.05	
7.727	56234	36235	0.644	0.19	
7.760	30039	19066	0.635	0.10	
7.812	40115	24744	0.617	0.13	
7.866	7439	10236	1.376	0.02	
7.874	6619	14618	2.209	0.02	
7.899	45401	29154	0.642	0.15	8 Aroclor 1260
7.953	43026	15515	0.361	0.14	
8.048	47376	43280	0.914	0.16	
8.073	20671	20695	1.001	0.07	
8.273	91040	81724	0.898	0.31	
8.376	36193	26868	0.742	0.12	
8.445	18295	15317	0.837	0.06	
8.481	14744	12666	0.859	0.05	
8.570	10317885	8811820	0.854	35.43	$ 12 Decachlorobiphenyl
8.644	16470	11114	0.675	0.05	
8.722	16579	11859	0.715	0.05	
9.167	312452	280296	0.897	1.07	
9.211	25995	15124	0.582	0.08	
	29117692	25183498		100.000	

Total unknown % area = 17

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418034.D
Lab Smp Id: 40158010019 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 21:06
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010019,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.085	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	11667329	0.09463	52			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	90018	0.03842	21	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	94182	0.02269	12	0.00- 20.00	104.63	BA
4.812	4.812	0.000	72340	0.03563	20	0.00- 20.00	80.36	BA
4.878	4.879	-0.001	195321	0.03877	21	0.00- 20.00	216.98	BA
5.035	5.038	-0.003	65454	0.01824	10	0.00- 20.00	72.71	BA
Average of Peak Concentrations =					17			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	166375	0.03178	17	0.00- 20.00	100.00(M)	BA
5.404	5.408	-0.004	79290	0.01844	10	0.00- 20.00	47.66	BA
5.509	5.510	-0.001	174208	0.02243	12	0.00- 20.00	104.71	BA
6.024	6.027	-0.003	110825	0.02276	12	0.00- 20.00	66.61	BA
6.297	6.299	-0.002	360698	0.05543	30	0.00- 20.00	216.80	BA
Average of Peak Concentrations =					17			
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10317884	0.09418	52			

QC Flag Legend

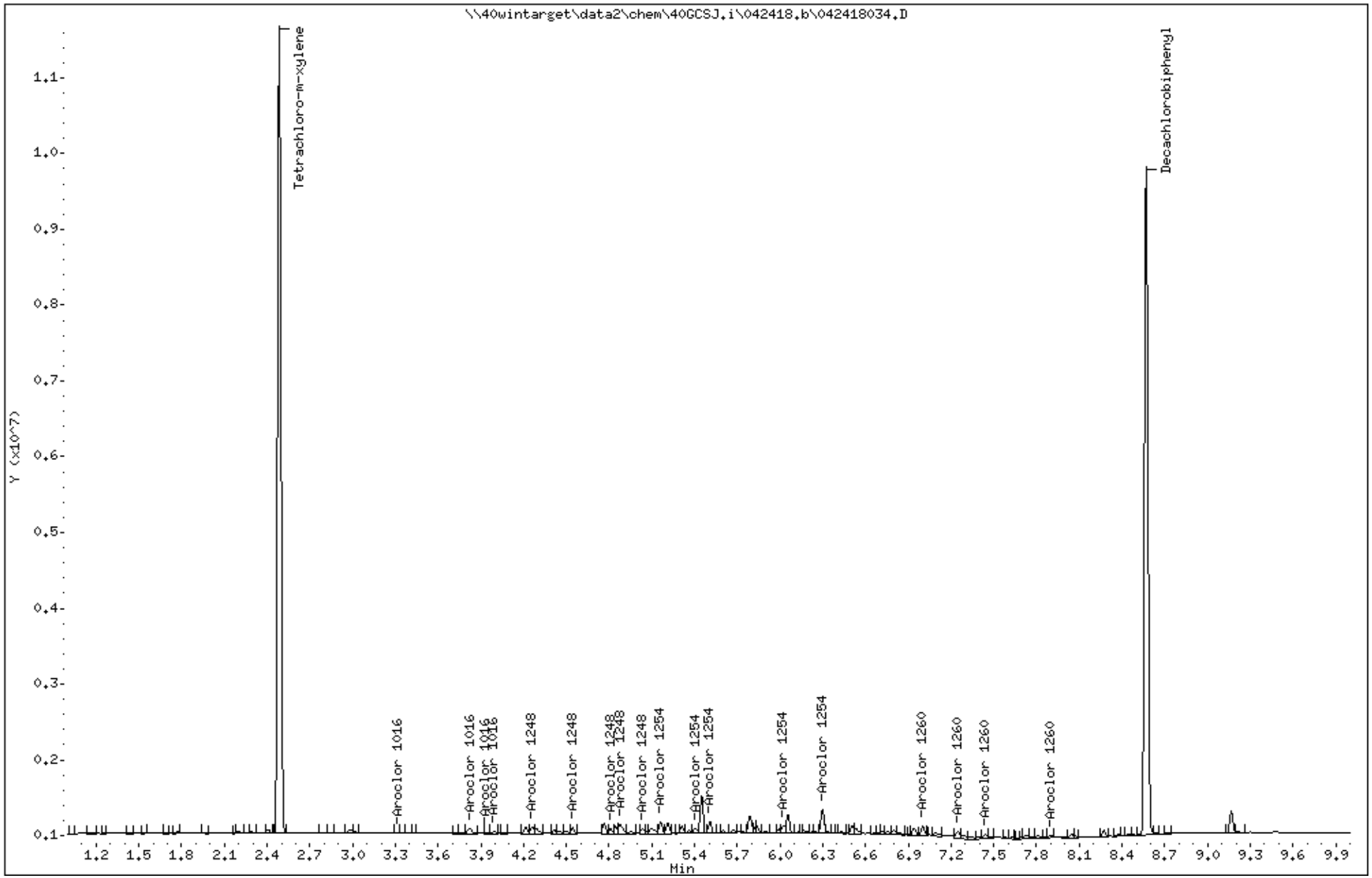
M - Compound response manually integrated.

Review Codes Legend

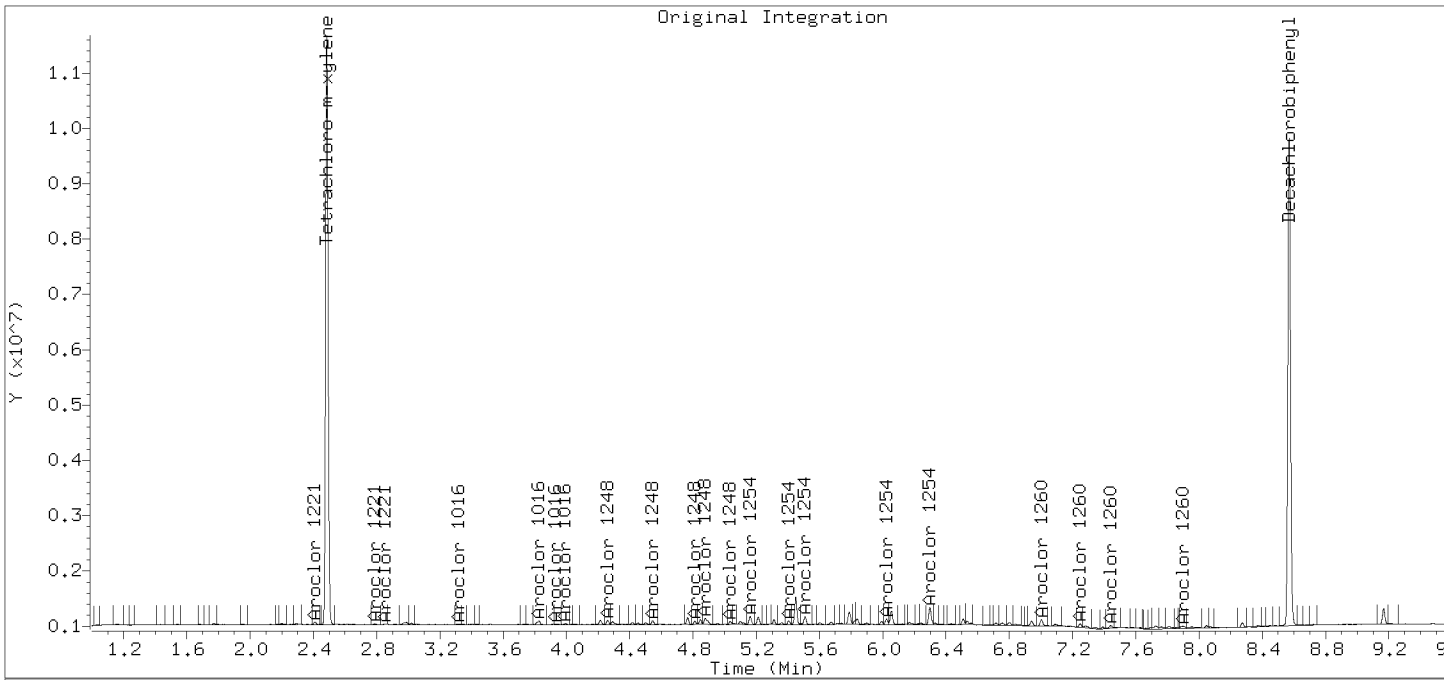
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

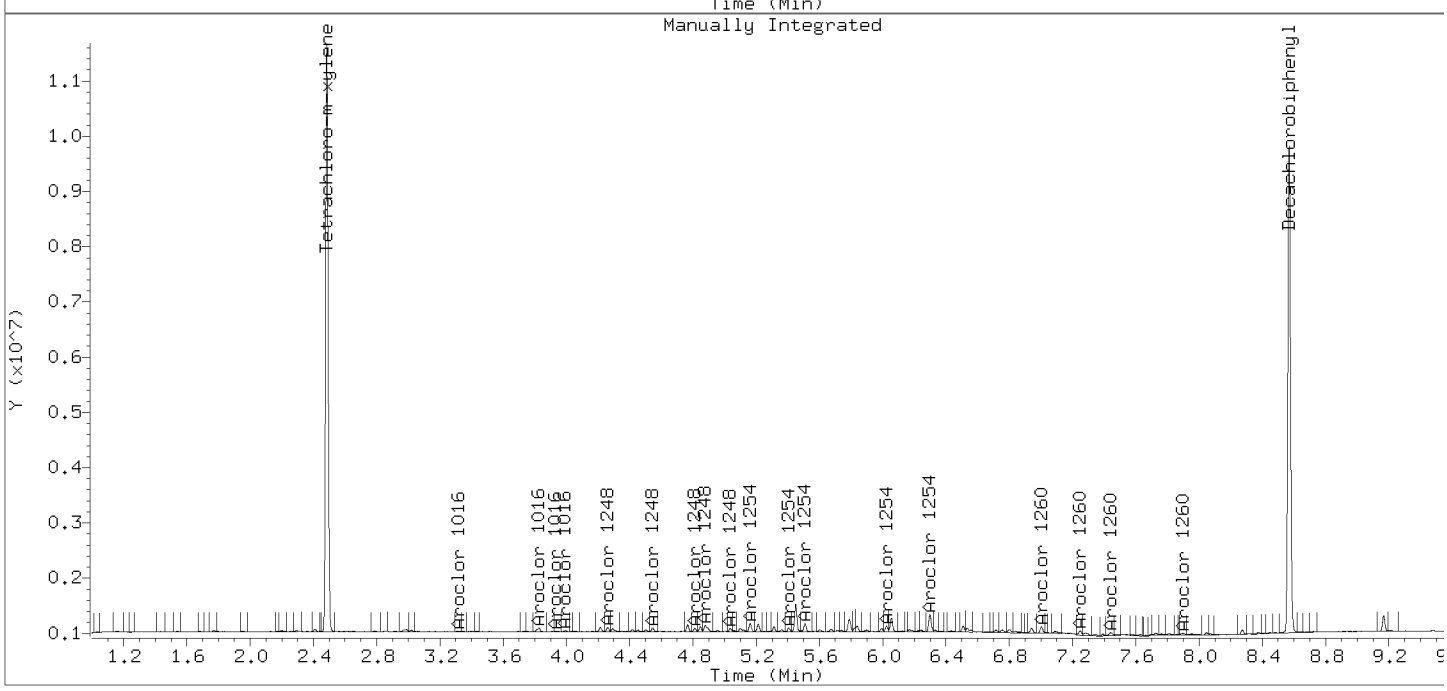
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418034.D
Date : 24-APR-2018 21:06
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010019,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418034.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 21:06 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010019





Manually Integrated Compounds

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

Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	84647	90018	BA
Aroclor 1248	84647	90018	BA
Aroclor 1248	84647	90018	BA
Aroclor 1248	84647	90018	BA
Aroclor 1248	84647	90018	BA
Aroclor 1254	151401	166375	BA
Aroclor 1254	151401	166375	BA
Aroclor 1254	151401	166375	BA
Aroclor 1254	151401	166375	BA
Aroclor 1254	151401	166375	BA
Aroclor 1260	356853	0	CO
Aroclor 1260	356853	0	CO
Aroclor 1260	356853	0	CO
Aroclor 1260	356853	0	CO
Aroclor 1260	356853	0	CO
Tetrachloro-m-xylene	11667329	11667329	
Decachlorobiphenyl	10317884	10317884	

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SAMPLE NO.

FD1-170829-01-PKSD-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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 40158010020
Date Analyzed: 04/24/2018 21:21
Lab File ID: 042418.B\042418035.D
Initial wt/vol: 4.9763 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)	<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)	23.9	J
11097-69-1	PCB-1254 (Aroclor 1254)	26.5	J
11096-82-5	PCB-1260 (Aroclor 1260)	<22.9	U
1336-36-3	PCB, Total	50.4	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418035.D
Lab Smp Id: 40158010020 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 21:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010020,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35
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	4.976	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.028	10720	8059	0.752	0.03		
1.158	15170	12363	0.815	0.05		
1.185	12345	11081	0.898	0.04		
1.426	9402	10438	1.110	0.03		
1.685	16349	16178	0.990	0.05		
1.773	17889	15486	0.866	0.06		
1.801	15533	15456	0.995	0.05	1 Aroclor 1221	
1.829	14154	12807	0.905	0.05		
2.197	9740	9243	0.949	0.03		
2.292	26128	26955	1.032	0.09		
2.318	19571	19800	1.012	0.07		
2.409	25430	24902	0.979	0.09	1 Aroclor 1221	
2.484	10961518	10518895	0.960	40.62	$ 2 Tetrachloro-m-xylene	
2.786	23953	18047	0.753	0.08	1 Aroclor 1221	
2.859	23646	16398	0.693	0.08	1 Aroclor 1221	
2.972	25654	22734	0.886	0.09		
2.986	21367	24760	1.159	0.07		
3.023	19134	19542	1.021	0.07		
3.397	12231	11405	0.932	0.04		
3.684	9609	8932	0.930	0.03		
3.826	66842	39648	0.593	0.24		
3.991	22606	16573	0.733	0.08		
4.048	16452	11956	0.727	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.213	62063	42705	0.688	0.22	
4.238	22456	23997	1.069	0.08	
4.260	51598	46699	0.905	0.18	6 Aroclor 1248
4.292	53325	30706	0.576	0.19	
4.416	34383	25103	0.730	0.12	
4.451	29957	22291	0.744	0.10	
4.504	55228	34921	0.632	0.20	
4.544	82195	49706	0.605	0.30	6 Aroclor 1248
4.765	226454	192377	0.850	0.82	
4.813	66196	48819	0.737	0.24	6 Aroclor 1248
4.847	73728	60600	0.822	0.26	
4.877	156145	89664	0.574	0.57	6 Aroclor 1248
4.956	28326	18753	0.662	0.10	
5.037	48387	43553	0.900	0.17	6 Aroclor 1248
5.064	34207	25963	0.759	0.12	
5.101	55892	46126	0.825	0.20	
5.121	68914	58270	0.846	0.25	
5.163	156177	127900	0.819	0.57	7 Aroclor 1254
5.213	106141	93205	0.878	0.38	
5.313	94673	87525	0.924	0.34	
5.345	53161	29181	0.549	0.19	
5.406	64839	53243	0.821	0.23	7 Aroclor 1254
5.449	423277	382520	0.904	1.54	
5.508	143759	119242	0.829	0.52	7 Aroclor 1254
5.601	40751	27551	0.676	0.14	
5.675	82307	57765	0.702	0.30	
5.704	29462	23912	0.812	0.10	
5.742	41138	27026	0.657	0.15	
5.788	251001	206187	0.821	0.91	
5.839	259185	196931	0.760	0.94	
5.899	44183	26130	0.591	0.16	
5.992	60803	53960	0.887	0.22	
6.025	101294	88654	0.875	0.37	7 Aroclor 1254
6.054	240438	212119	0.882	0.87	
6.121	31224	22242	0.712	0.11	
6.168	86732	40956	0.472	0.31	
6.242	37768	27550	0.729	0.13	
6.298	309497	260600	0.842	1.13	7 Aroclor 1254
6.333	41300	34821	0.843	0.15	
6.433	42415	27410	0.646	0.15	
6.509	142481	122196	0.858	0.52	
6.534	57357	58811	1.025	0.20	
6.558	52280	41302	0.790	0.19	
6.607	13235	10890	0.823	0.04	
6.659	21079	16101	0.764	0.07	
6.716	79270	54672	0.690	0.29	
6.758	67227	53030	0.789	0.24	
6.802	65803	46003	0.699	0.24	
6.836	28816	22490	0.780	0.10	
6.913	8231	8359	1.016	0.03	
6.941	84876	69730	0.822	0.31	
7.003	122508	105542	0.862	0.44	8 Aroclor 1260
7.031	13192	15417	1.169	0.04	
7.089	56803	39579	0.697	0.20	
7.249	72876	65572	0.900	0.26	8 Aroclor 1260
7.278	64191	36469	0.568	0.23	
7.335	40243	23831	0.592	0.14	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.389	35496	35073	0.988	0.12	
7.442	67183	45410	0.676	0.24	8 Aroclor 1260
7.483	37762	19897	0.527	0.13	
7.580	15506	13373	0.862	0.05	
7.663	16887	18743	1.110	0.06	
7.696	16403	18070	1.102	0.06	
7.724	50563	33824	0.669	0.18	
7.762	30609	23144	0.756	0.11	
7.806	35211	21051	0.598	0.12	
7.868	6094	10746	1.763	0.02	
7.900	41248	25906	0.628	0.15	8 Aroclor 1260
7.952	27375	23026	0.841	0.10	
8.047	46801	33408	0.714	0.17	
8.275	89658	78502	0.876	0.32	
8.375	45556	36341	0.798	0.16	
8.448	21888	17008	0.777	0.08	
8.480	15828	14336	0.906	0.05	
8.570	10053838	8742554	0.870	36.79	$ 12 Decachlorobiphenyl
8.635	21615	16222	0.750	0.07	
8.720	16246	12500	0.769	0.05	
9.167	301248	266866	0.886	1.10	
9.210	28569	18545	0.649	0.10	
9.479	28811	17432	0.605	0.10	
	27327287	24310512		100.000	

Total unknown % area = 17

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418035.D
Lab Smp Id: 40158010020 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 21:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40158010020,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 35
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	4.976	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Qualifier signal(s) failed ratio test.								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	10961518	0.08890		89		
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Peaks not detected for Quant. or Qual. signal(s).								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	51597	0.02202	22	0.00- 20.00	100.00(M)	BA
4.543	4.546	-0.003	82195	0.01980	20	0.00- 20.00	159.30	BA
4.813	4.812	0.001	66196	0.03261	33	0.00- 20.00	128.29	BA
4.877	4.879	-0.002	156145	0.03100	31	0.00- 20.00	302.62	BA
5.036	5.038	-0.002	48386	0.01348	14	0.00- 20.00	93.78	BA
Average of Peak Concentrations =					24			
7 Aroclor 1254					CAS #: 11097-69-1			
5.162	5.162	0.000	156177	0.02983	30	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	64839	0.01508	15	0.00- 20.00	41.52	BA
5.507	5.510	-0.003	143758	0.01851	18	0.00- 20.00	92.05	BA
6.025	6.027	-0.002	101294	0.02080	21	0.00- 20.00	64.86	BA
6.298	6.299	-0.001	309496	0.04756	48	0.00- 20.00	198.17	BA
Average of Peak Concentrations =					26			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	10053838	0.09177	92			

QC Flag Legend

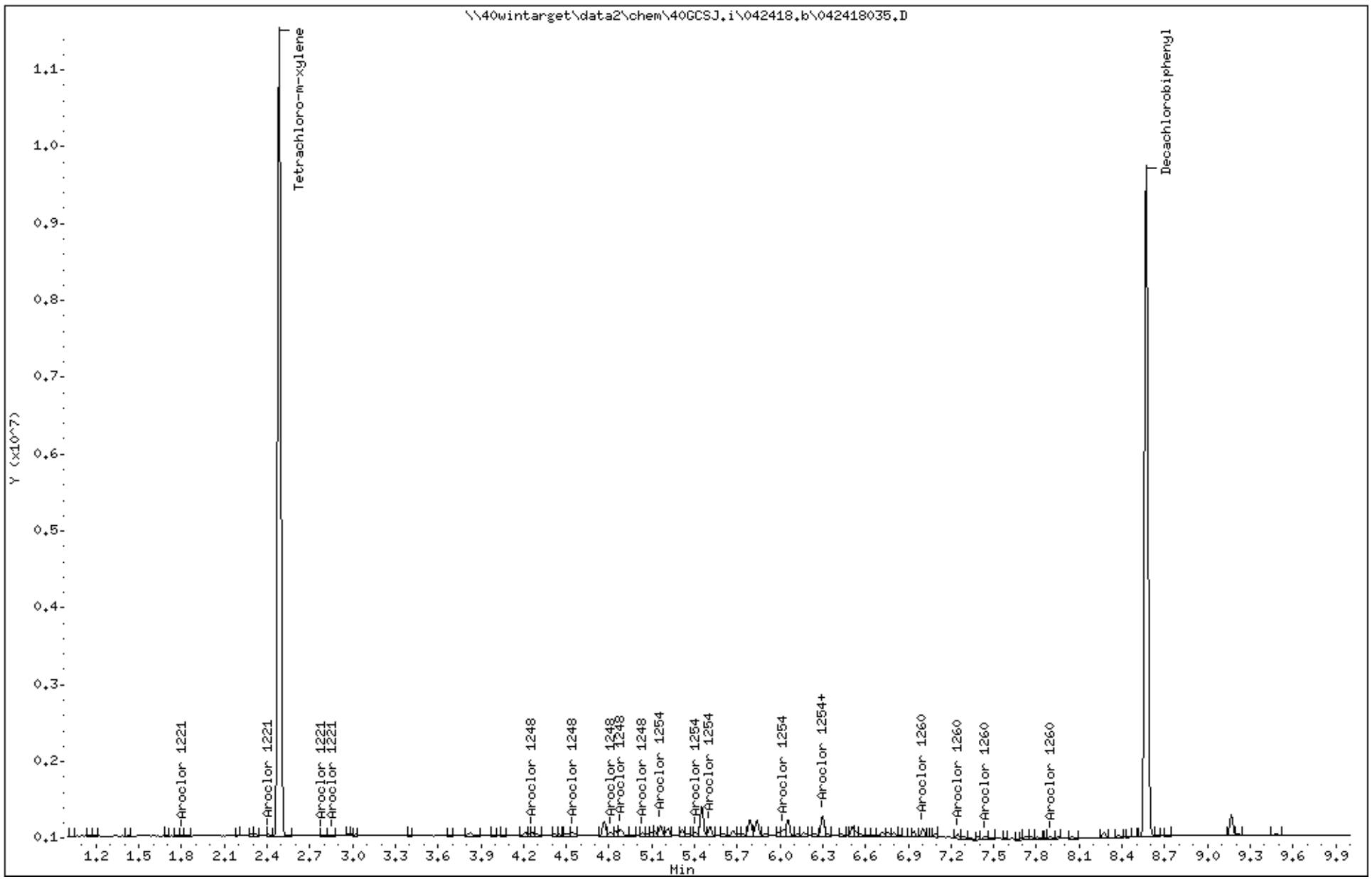
M - Compound response manually integrated.

Review Codes Legend

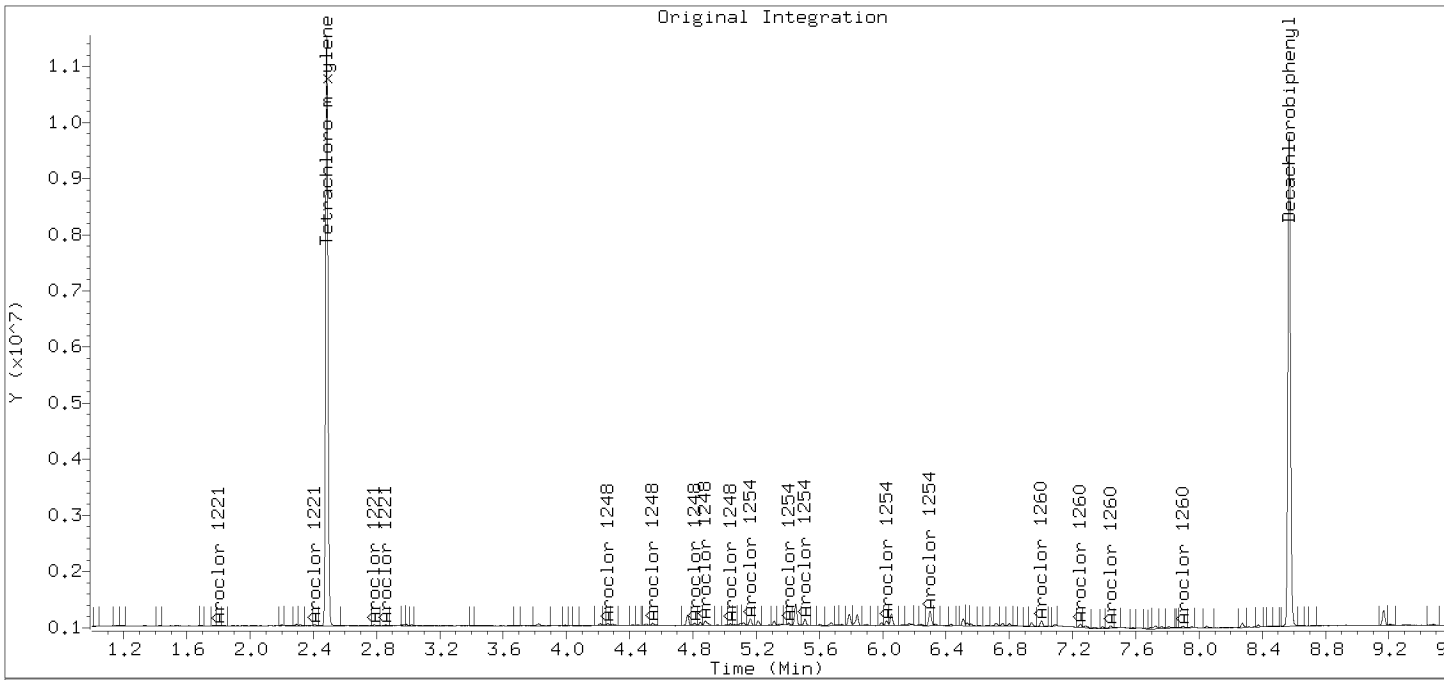
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

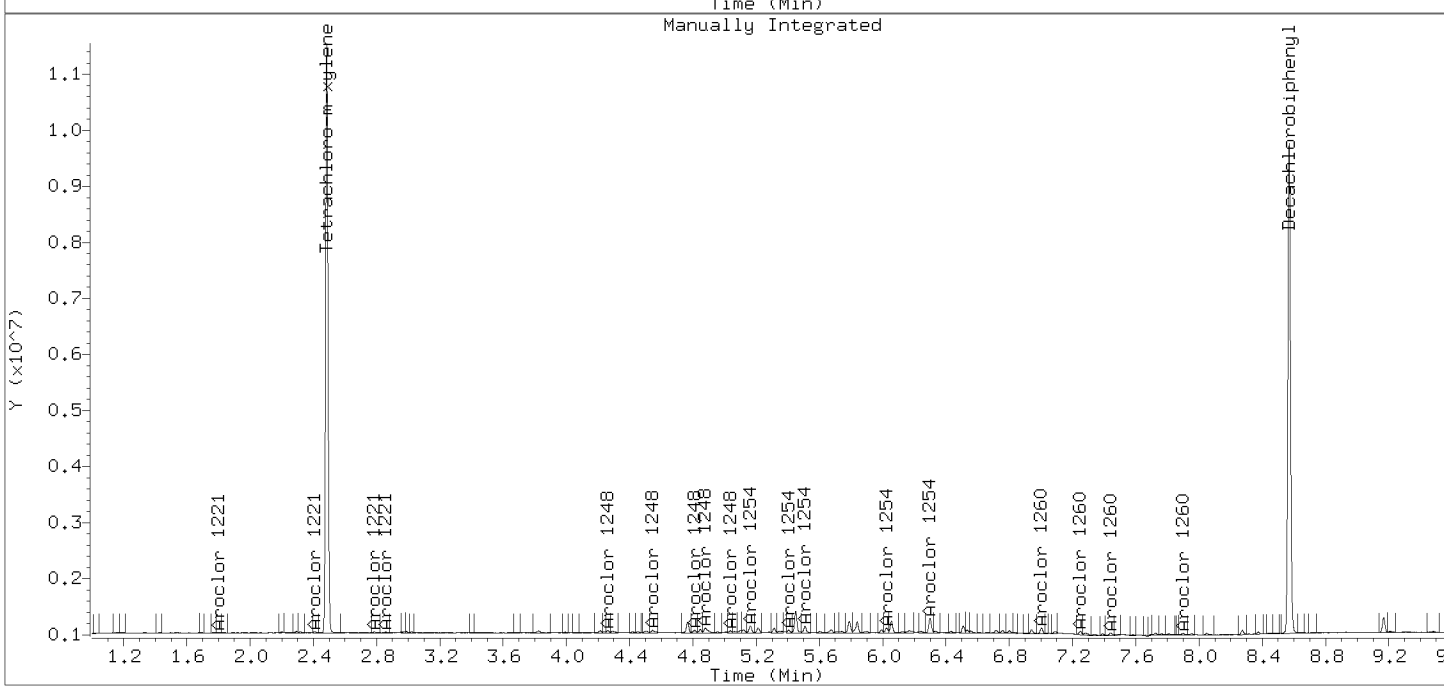
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418035.D
Date : 24-APR-2018 21:21
Client ID: FD1-170829-01-PKSD-
Sample Info: 40158010020,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418035.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 21:21 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40158010020





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	51597	BA
Aroclor 1248	0	51597	BA
Aroclor 1248	0	51597	BA
Aroclor 1248	0	51597	BA
Aroclor 1248	0	51597	BA
Aroclor 1254	0	156177	BA
Aroclor 1254	0	156177	BA
Aroclor 1254	0	156177	BA
Aroclor 1254	0	156177	BA
Aroclor 1254	0	156177	BA
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Tetrachloro-m-xylene	10961518	10961518	
Decachlorobiphenyl	10053838	10053838	

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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.: 40158010

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.: 40158010

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.: 40158010

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

LAB FILE ID

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

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

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

05/16/2018 3:54

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40158010

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.: 40158010

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

LAB FILE ID

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

COMPOUND	PEAK	CAL1	CAL2	CAL3	CAL4	CAL5	RT	RT WINDOW	
								FROM	TO
Aroclor 1016	1	3.318	3.317	3.317	3.317	3.318	3.318	3.284	3.352
Aroclor 1016	2	3.513	3.513	3.512	3.512	3.512	3.512	3.478	3.546
Aroclor 1016	3	3.826	3.826	3.826	3.826	3.826	3.826	3.792	3.86
Aroclor 1016	4	3.928	3.929	3.928	3.929	3.928	3.929	3.895	3.963
Aroclor 1016	5	3.995	3.994	3.994	3.995	3.994	3.994	3.96	4.028
Aroclor 1221	1	1.803	1.804	1.804	1.804	1.806	1.804	1.77	1.838
Aroclor 1221	2	2.406	2.407	2.407	2.407	2.407	2.407	2.373	2.441
Aroclor 1221	3	2.687	2.688	2.688	2.688	2.688	2.688	2.654	2.722
Aroclor 1221	4	2.789	2.789	2.79	2.789	2.789	2.789	2.755	2.823
Aroclor 1221	5	2.851	2.851	2.851	2.851	2.851	2.851	2.817	2.885
Aroclor 1242	1	3.318	3.318	3.317	3.318	3.318	3.318	3.284	3.352
Aroclor 1242	2	3.513	3.513	3.513	3.513	3.513	3.513	3.479	3.547
Aroclor 1242	3	3.826	3.826	3.827	3.827	3.827	3.827	3.793	3.861
Aroclor 1242	4	3.928	3.929	3.929	3.93	3.929	3.929	3.895	3.963
Aroclor 1242	5	3.995	3.994	3.995	3.995	3.994	3.995	3.961	4.029
Aroclor 1248	1	4.261	4.261	4.261	4.261	4.261	4.261	4.227	4.295
Aroclor 1248	2	4.546	4.545	4.545	4.545	4.545	4.546	4.512	4.58
Aroclor 1248	3	4.814	4.813	4.813	4.813	4.813	4.812	4.778	4.846
Aroclor 1248	4	4.879	4.878	4.879	4.878	4.879	4.879	4.845	4.913
Aroclor 1248	5	5.037	5.036	5.037	5.038	5.037	5.038	5.004	5.072
Aroclor 1254	1	5.163	5.162	5.163	5.162	5.163	5.162	5.128	5.196
Aroclor 1254	2	5.408	5.407	5.407	5.407	5.407	5.408	5.374	5.442
Aroclor 1254	3	5.51	5.51	5.51	5.509	5.51	5.51	5.476	5.544
Aroclor 1254	4	6.026	6.026	6.026	6.027	6.027	6.027	5.993	6.061
Aroclor 1254	5	6.299	6.299	6.299	6.299	6.299	6.299	6.265	6.333
Aroclor 1260	1	6.3	6.3	6.299	6.3	6.299	6.3	6.266	6.334
Aroclor 1260	2	7.006	7.006	7.005	7.005	7.005	7.006	6.972	7.04
Aroclor 1260	3	7.252	7.252	7.251	7.252	7.251	7.251	7.217	7.285

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

PCB - FORM VI SVOA-2

PCB INITIAL CALIBRATION RETENTION TIME (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40158010

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.: 40158010

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

LAB FILE ID

CAL3S = 030618.B\030618008.D

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

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 11:50

Client ID: 1232-CAL3S

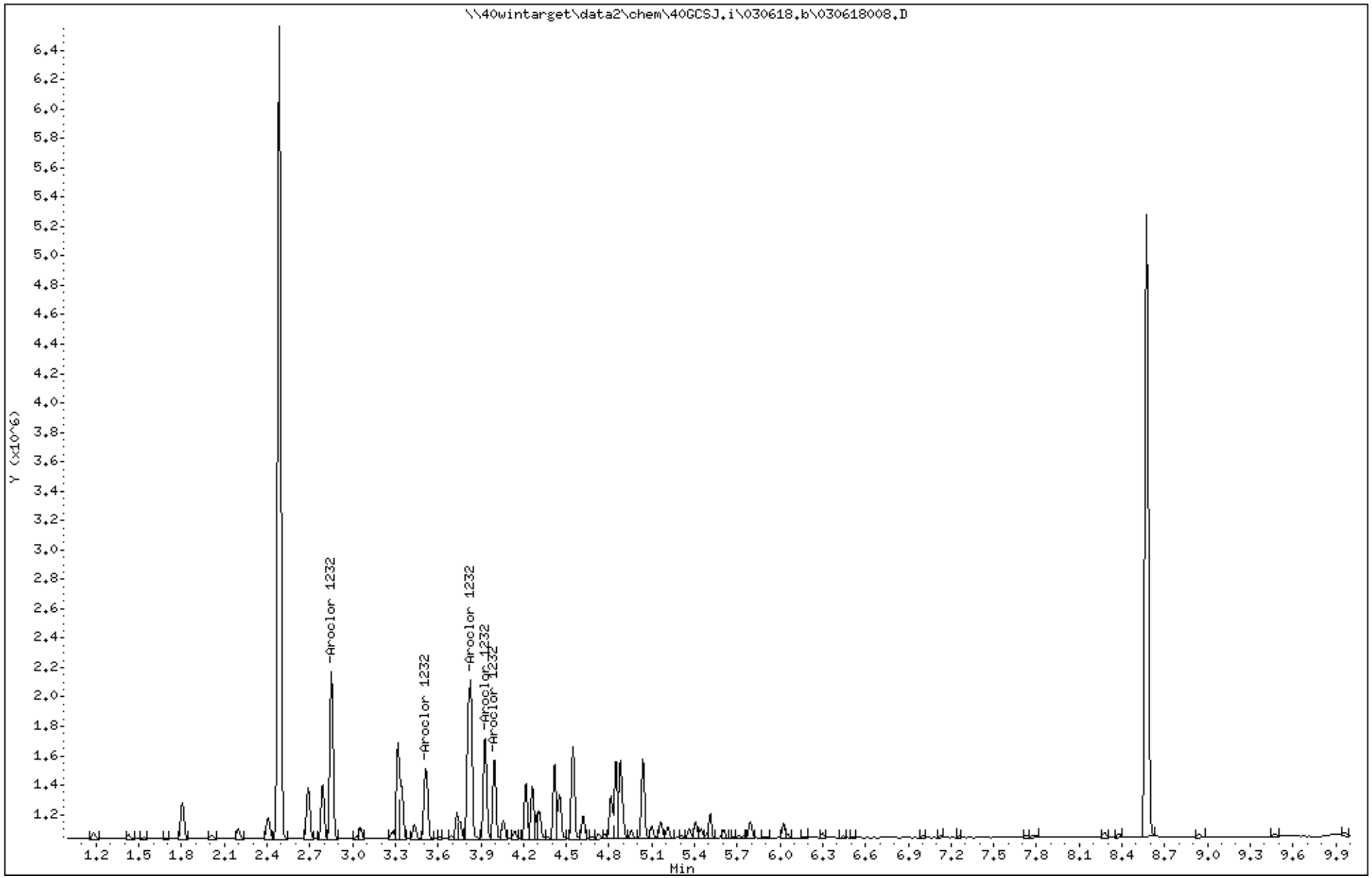
Instrument: 40GCSJ.i

Sample Info: 1232-CAL3S, 185539:1

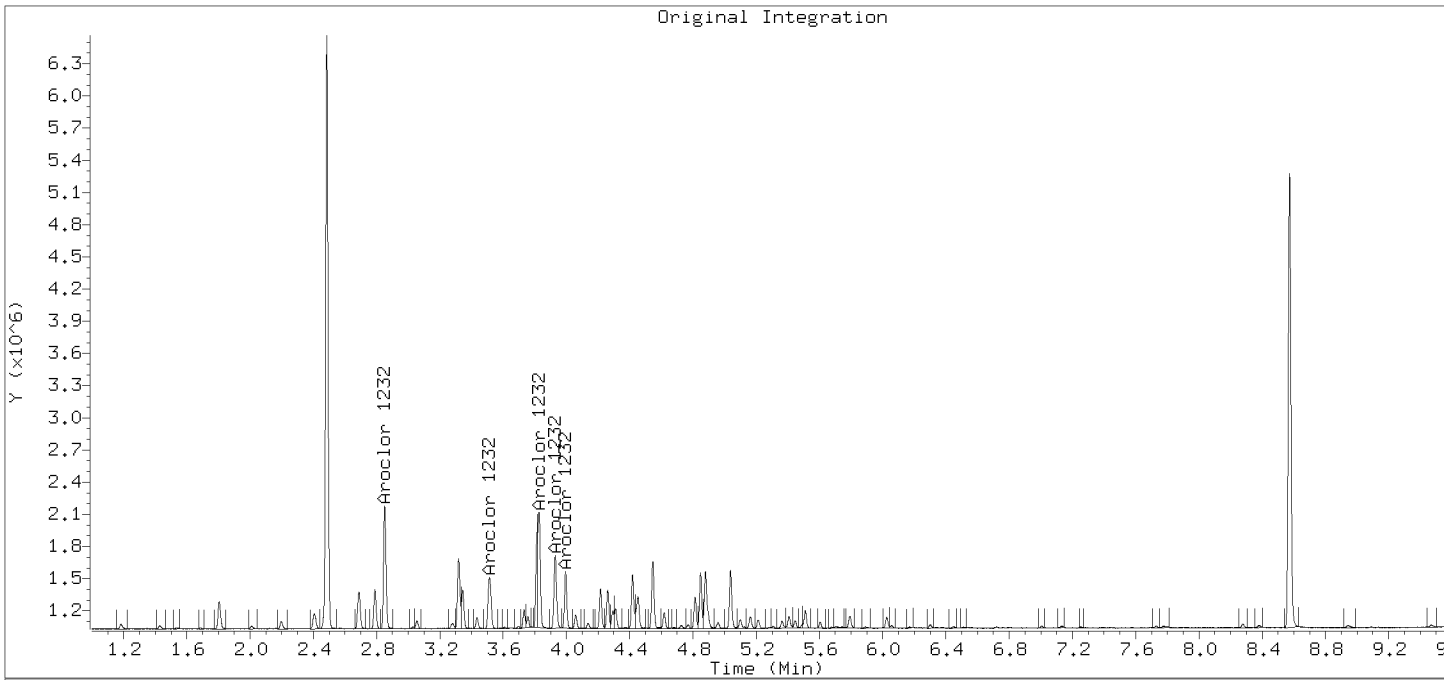
Operator: BLM

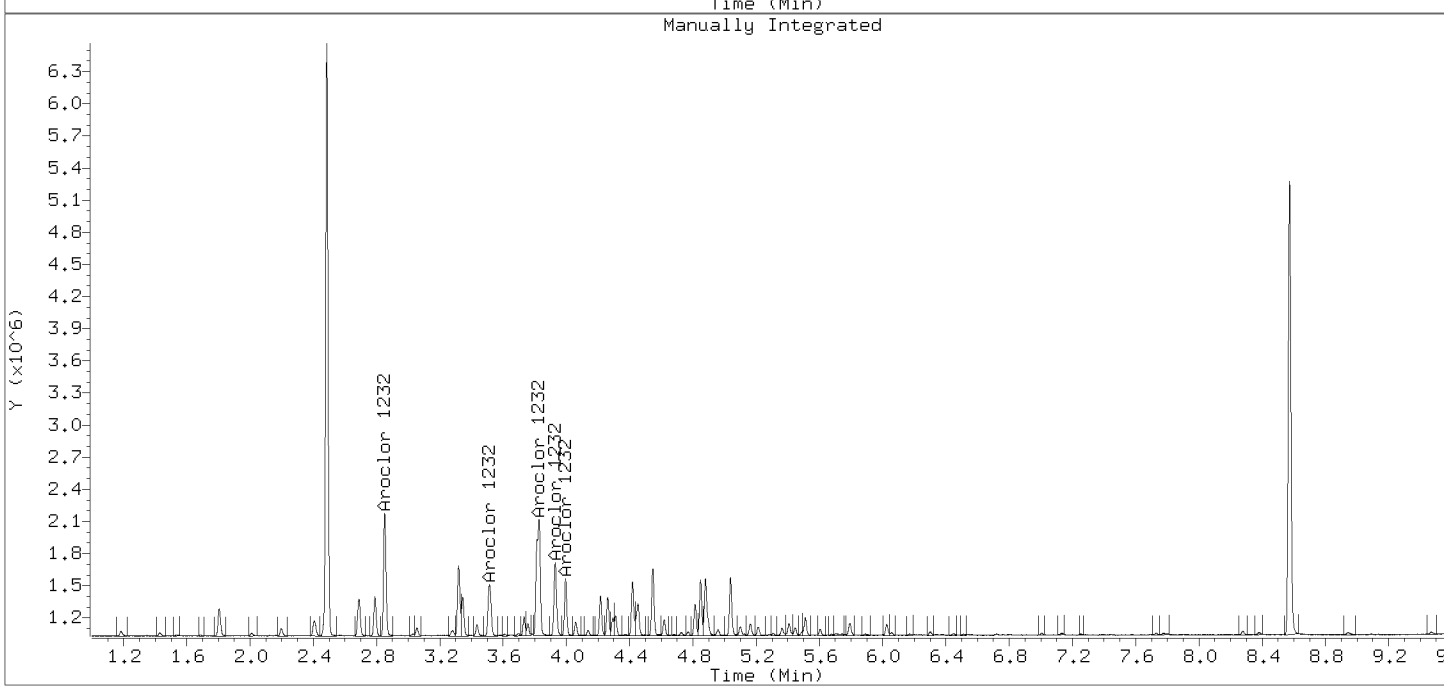
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

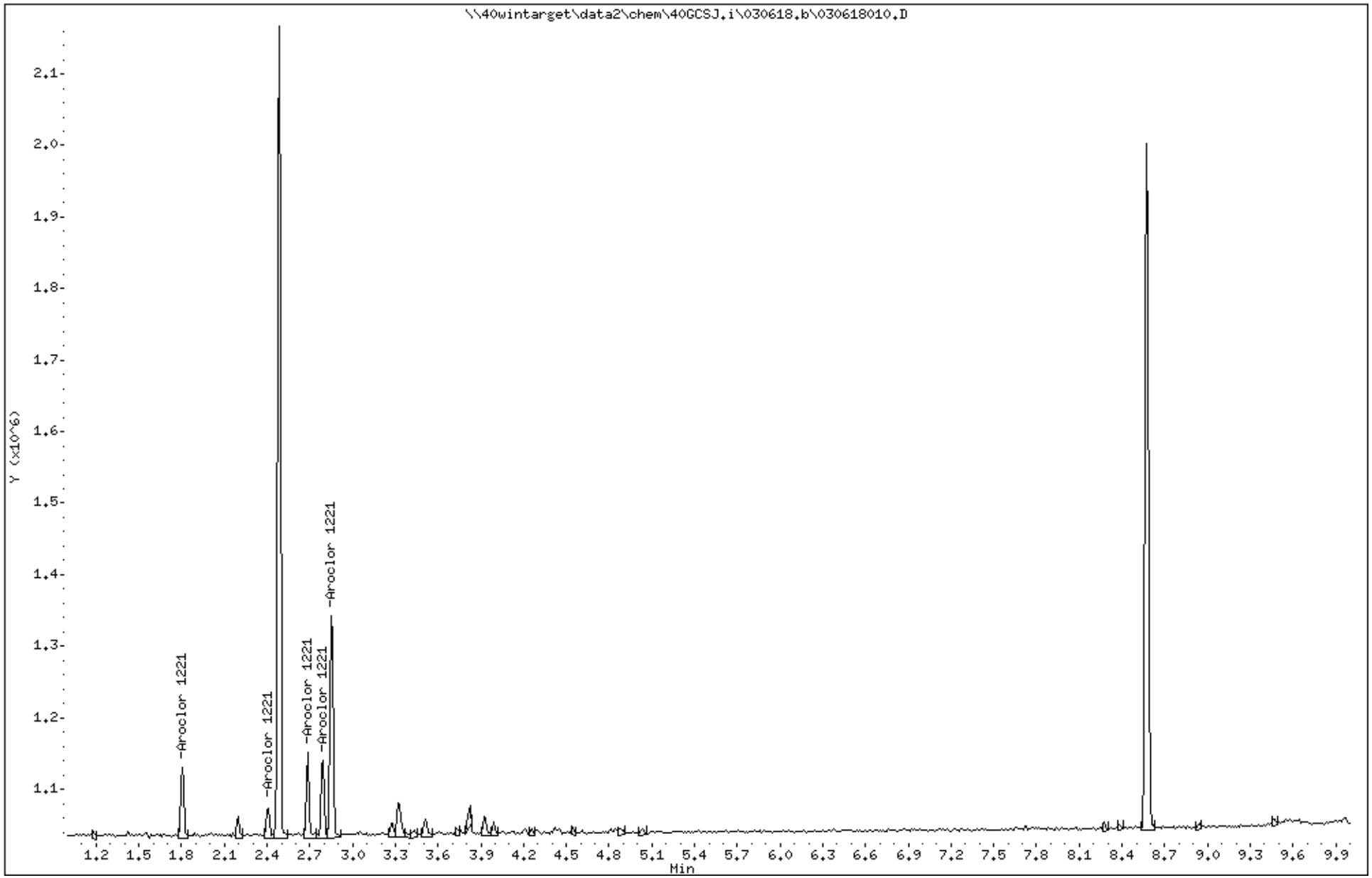
M - Compound response manually integrated.

Review Codes Legend

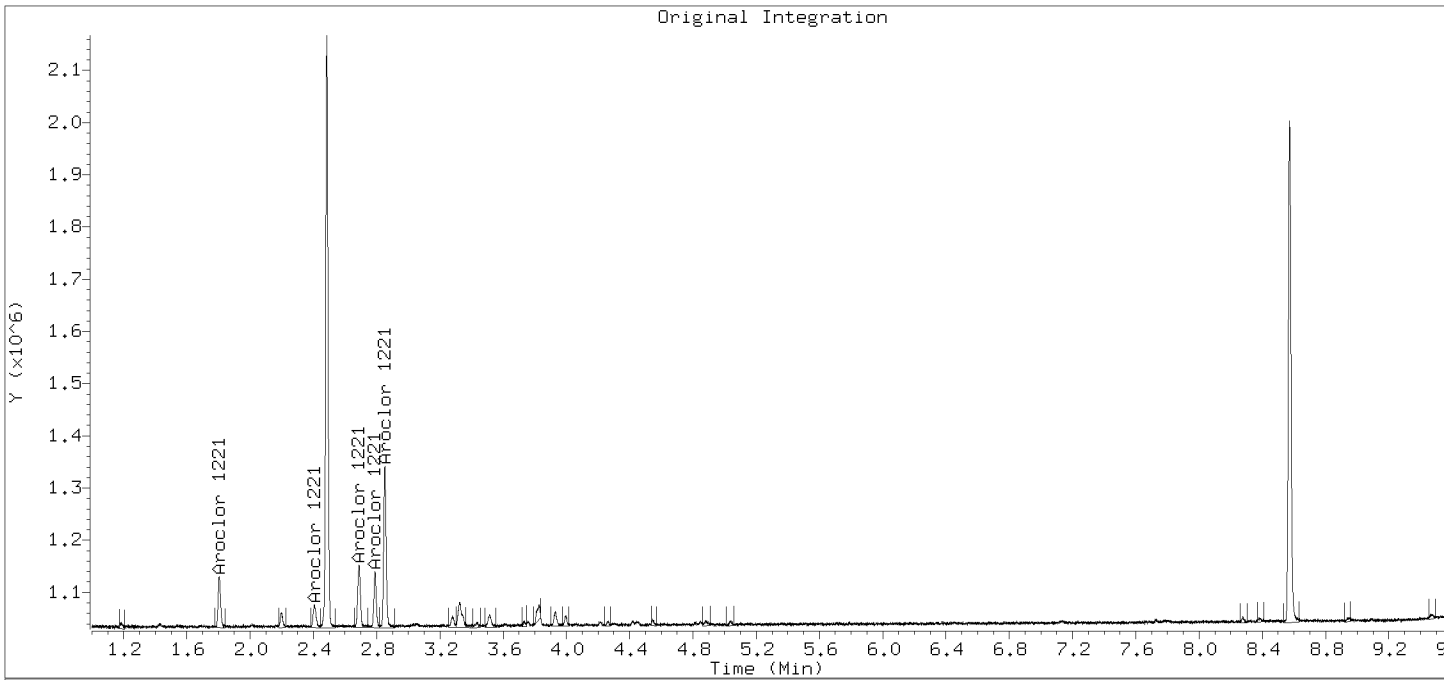
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

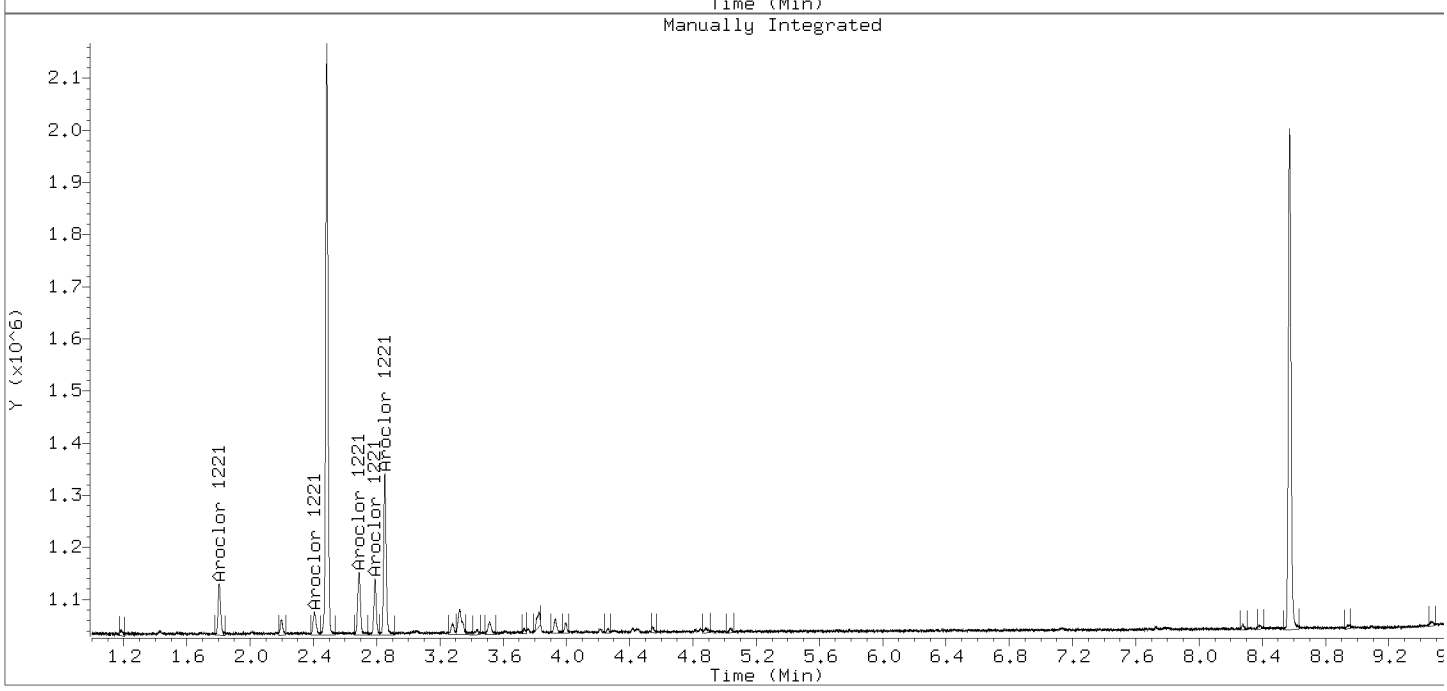
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618010.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:23

Client ID: 1221-CAL2F

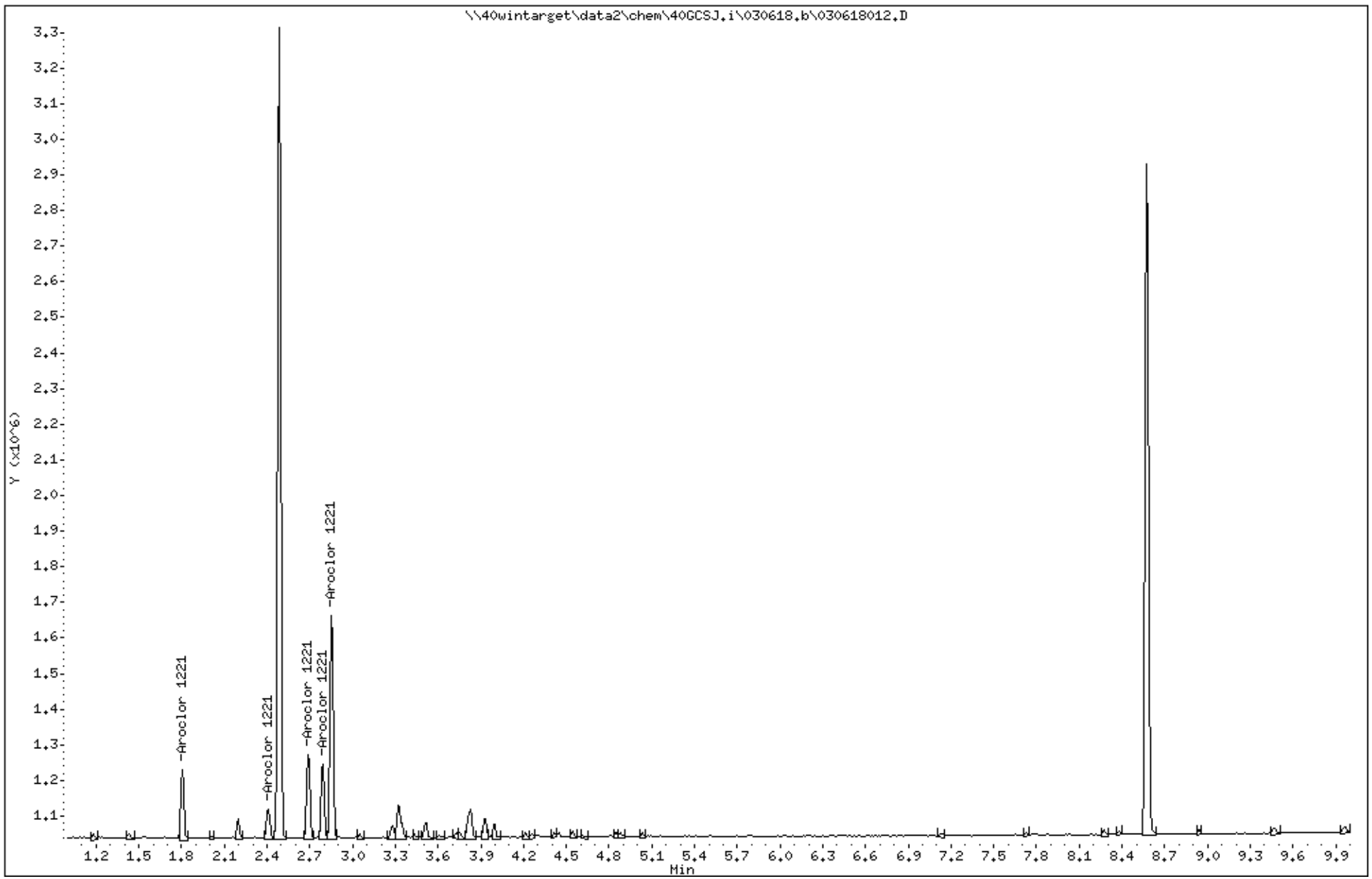
Instrument: 40GCSJ.i

Sample Info: 1221-CAL2F, 188139:1

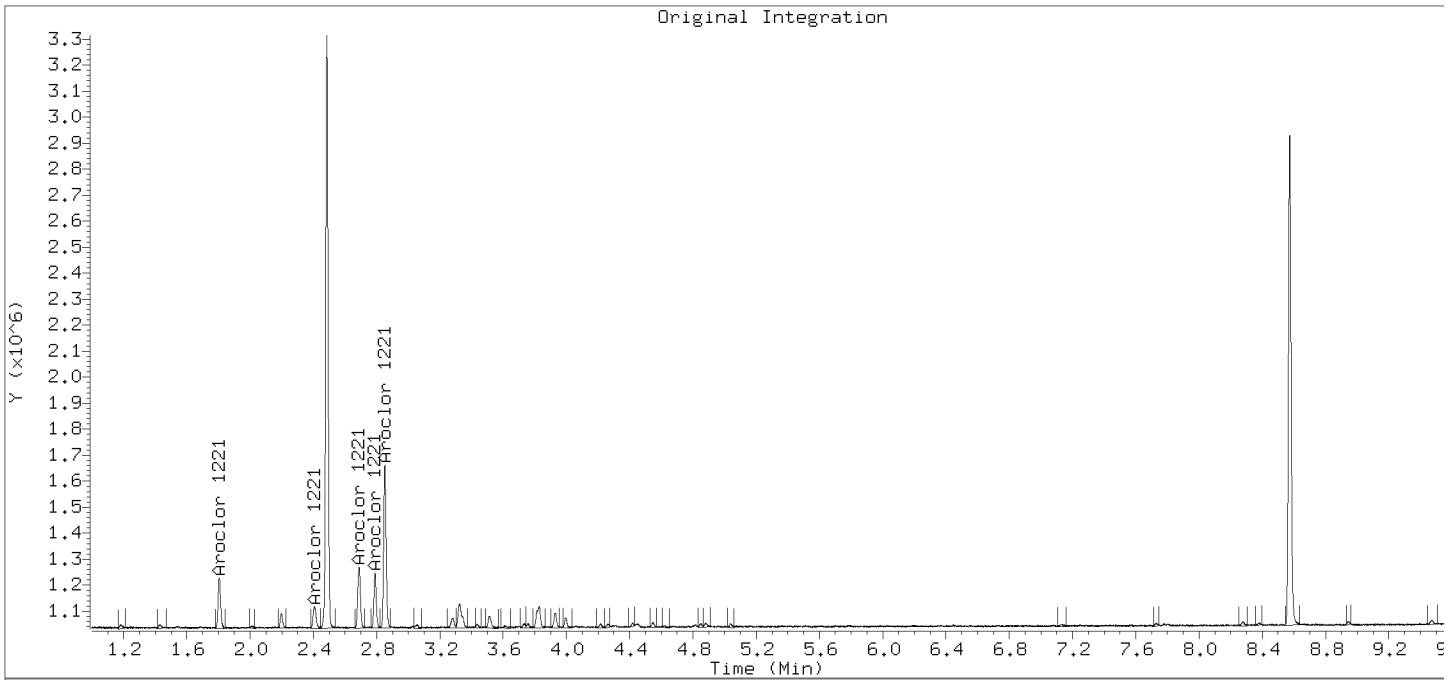
Operator: BLM

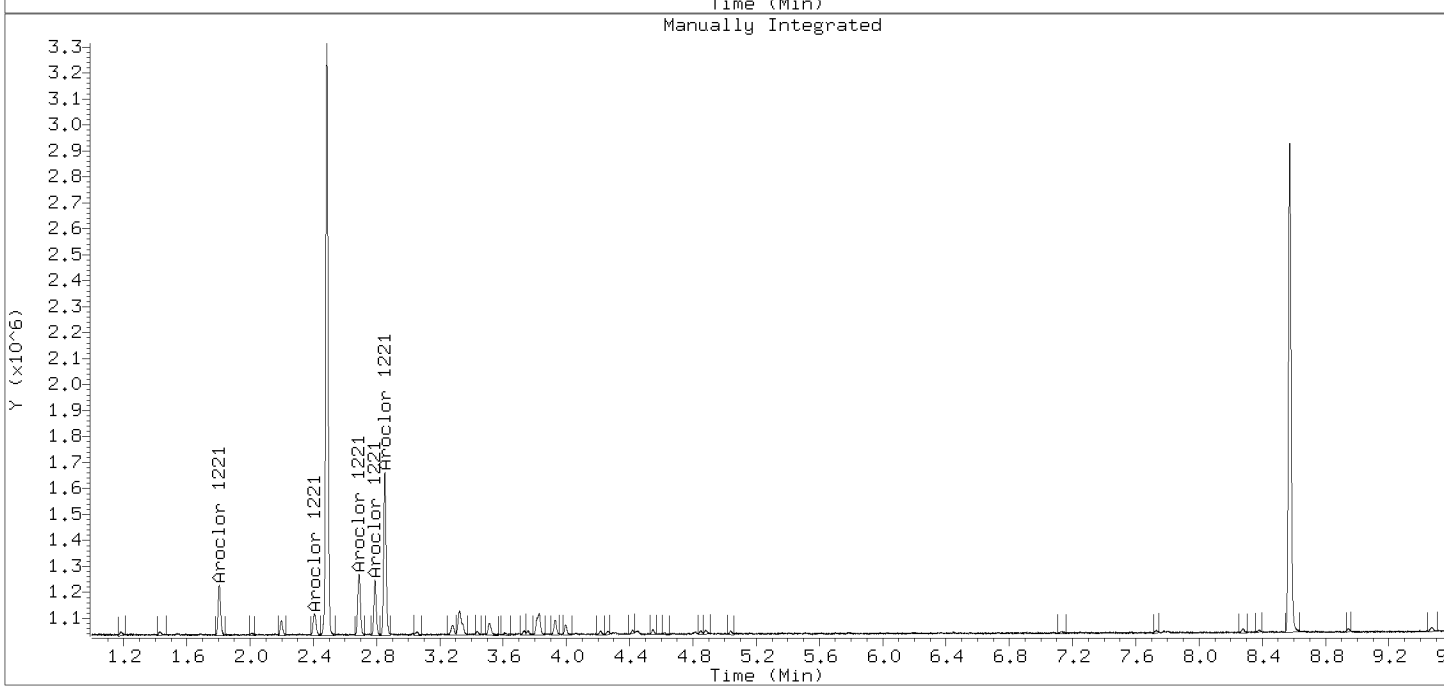
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

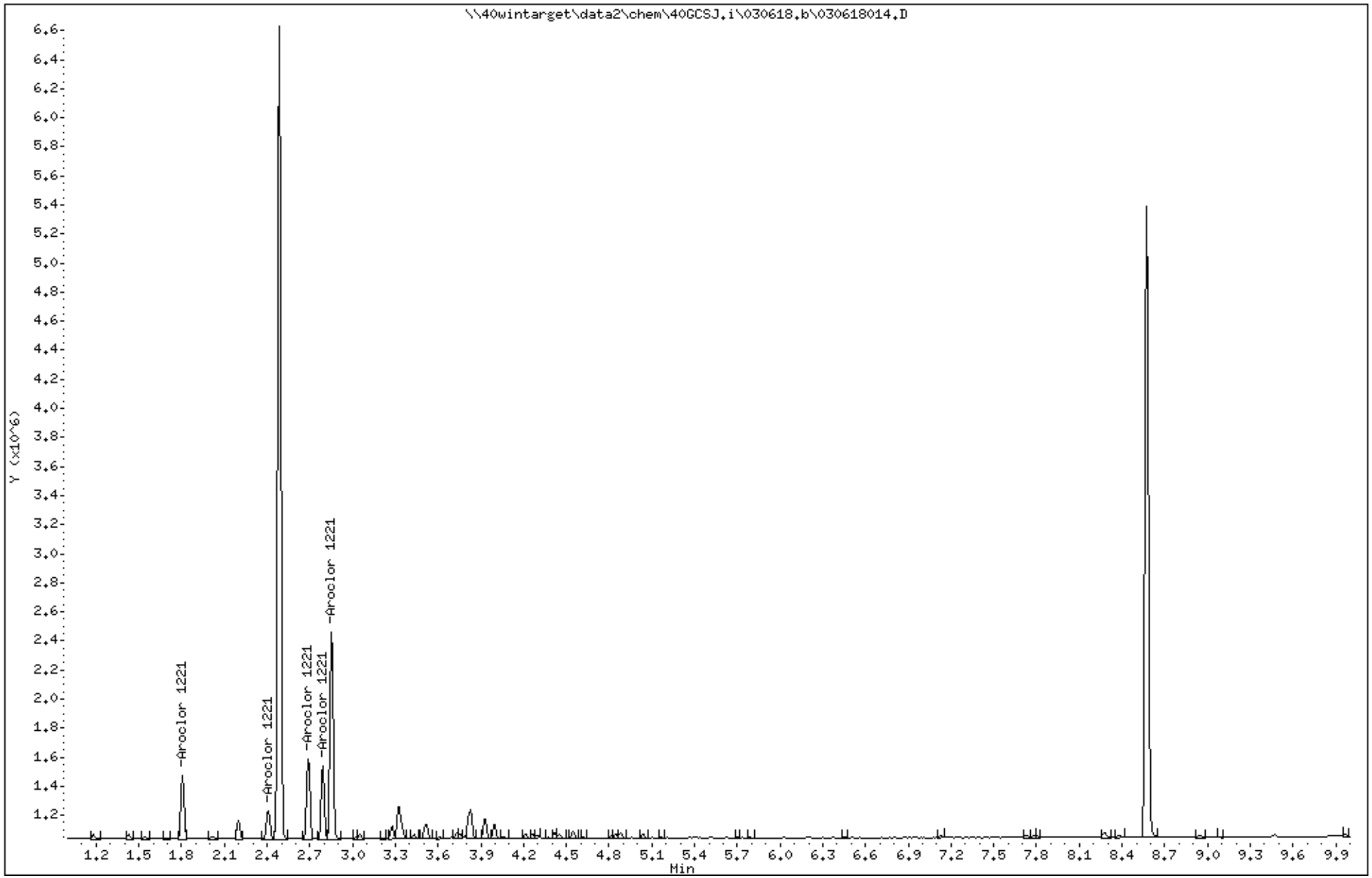
M - Compound response manually integrated.

Review Codes Legend

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

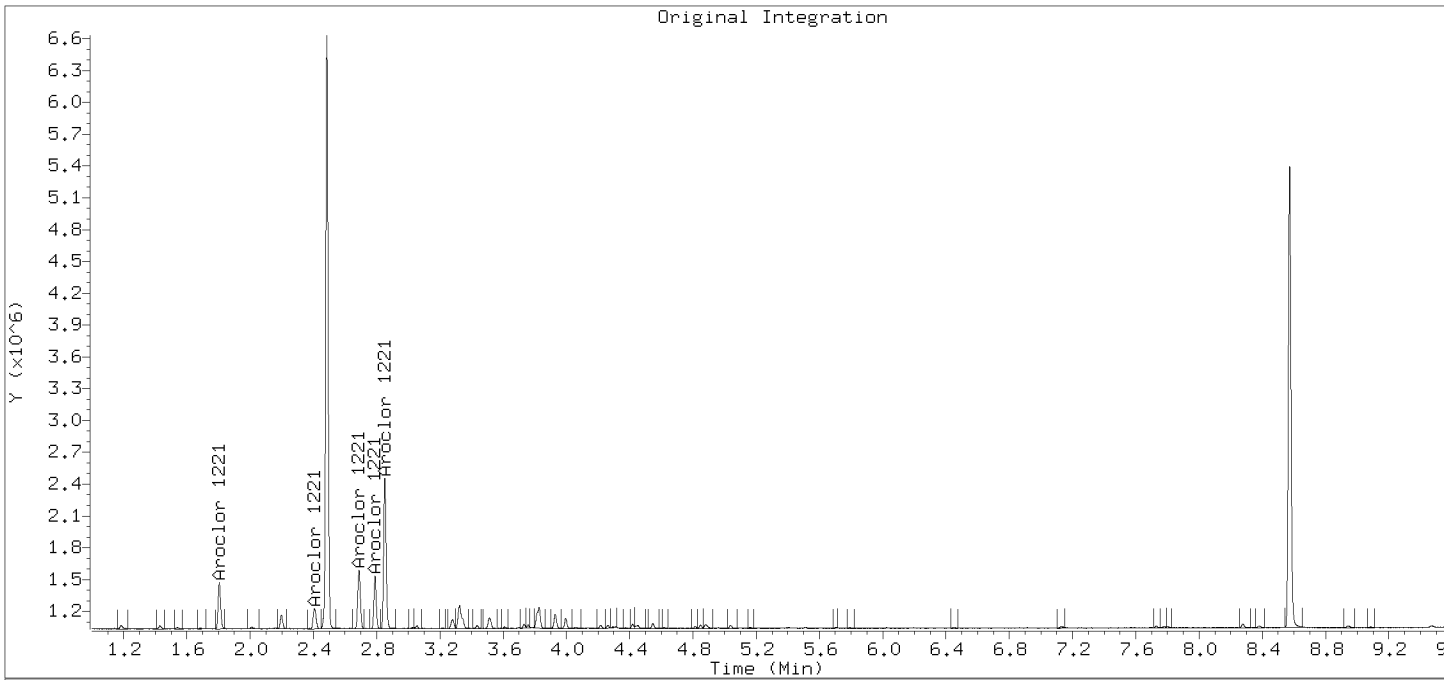
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618014.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

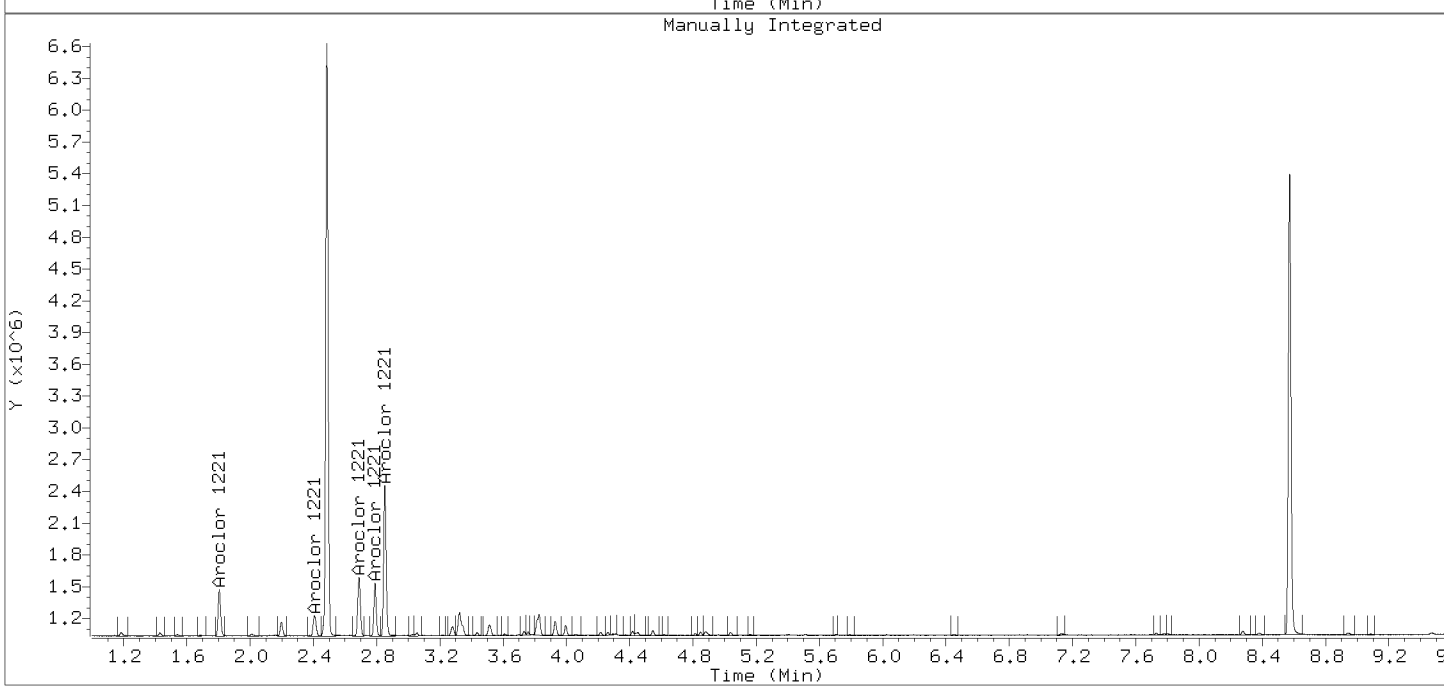
Instrument: 40GCSJ.i
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



40158010

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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

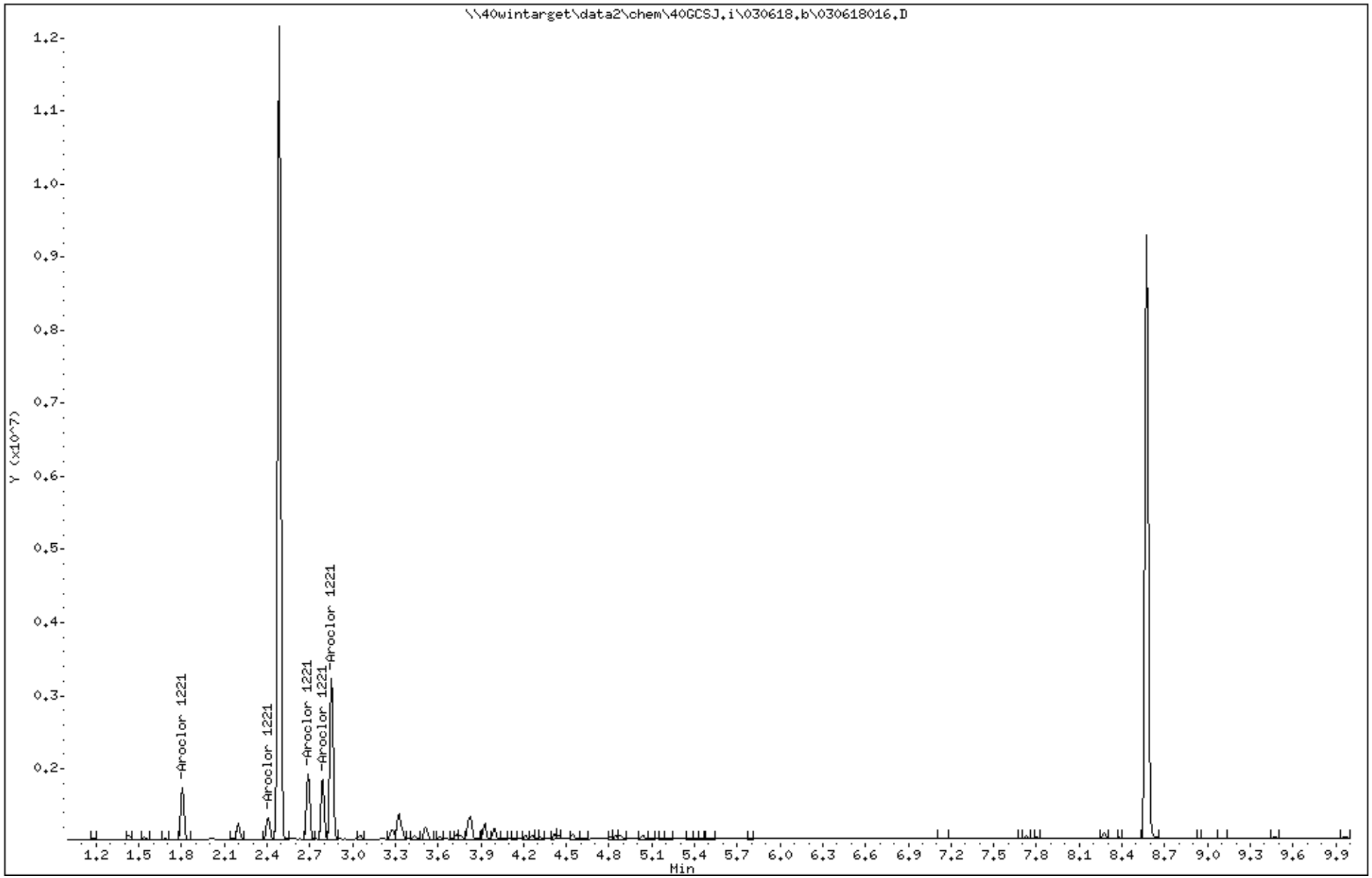
M - Compound response manually integrated.

Review Codes Legend

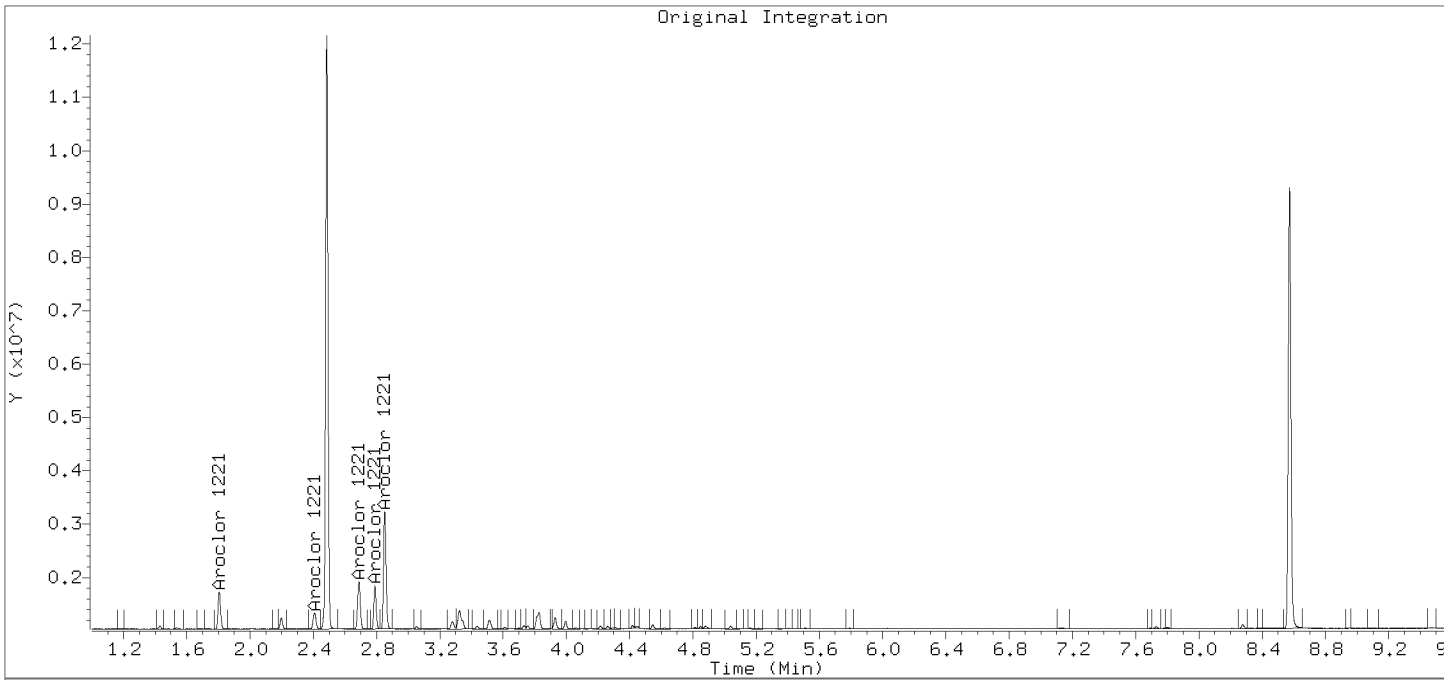
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

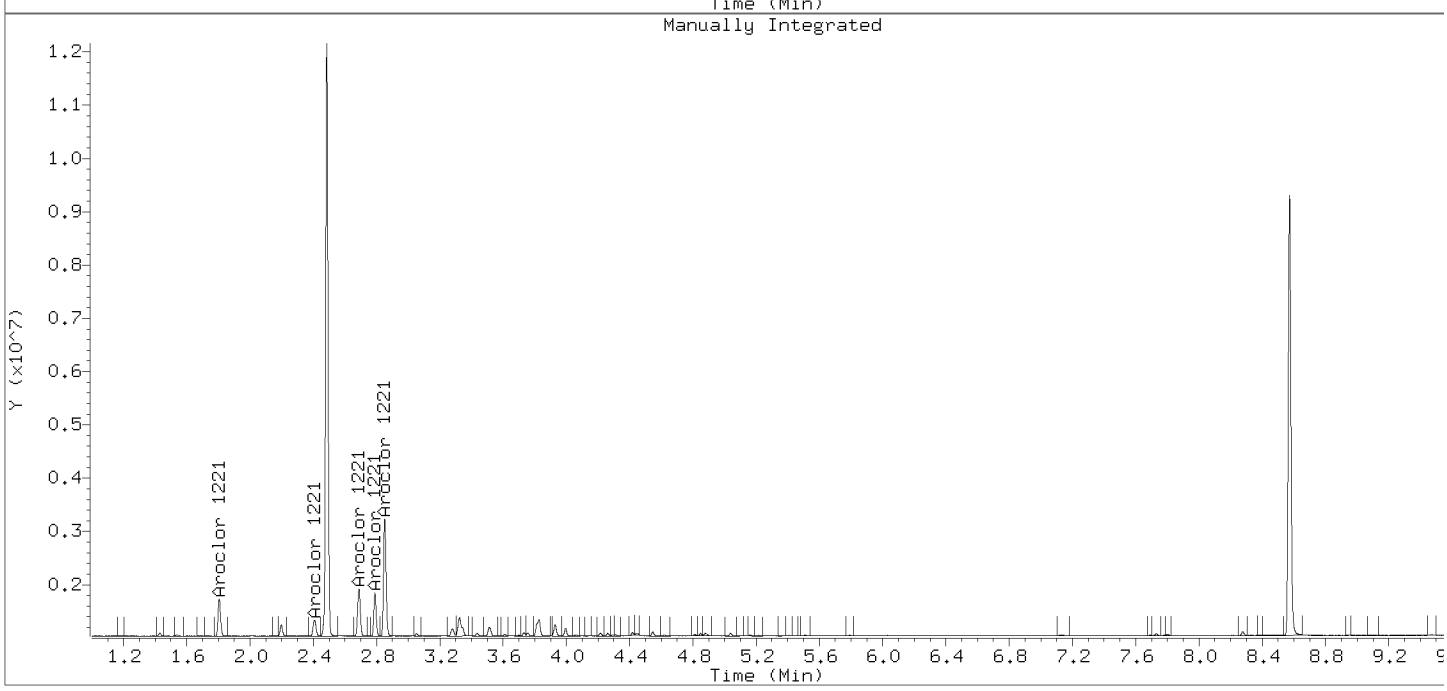
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618016.D
Date : 06-MAR-2018 12:55
Client ID: 1221-CAL4F
Sample Info: 1221-CAL4F, 188140:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 13:11

Client ID: 1221-CAL5F

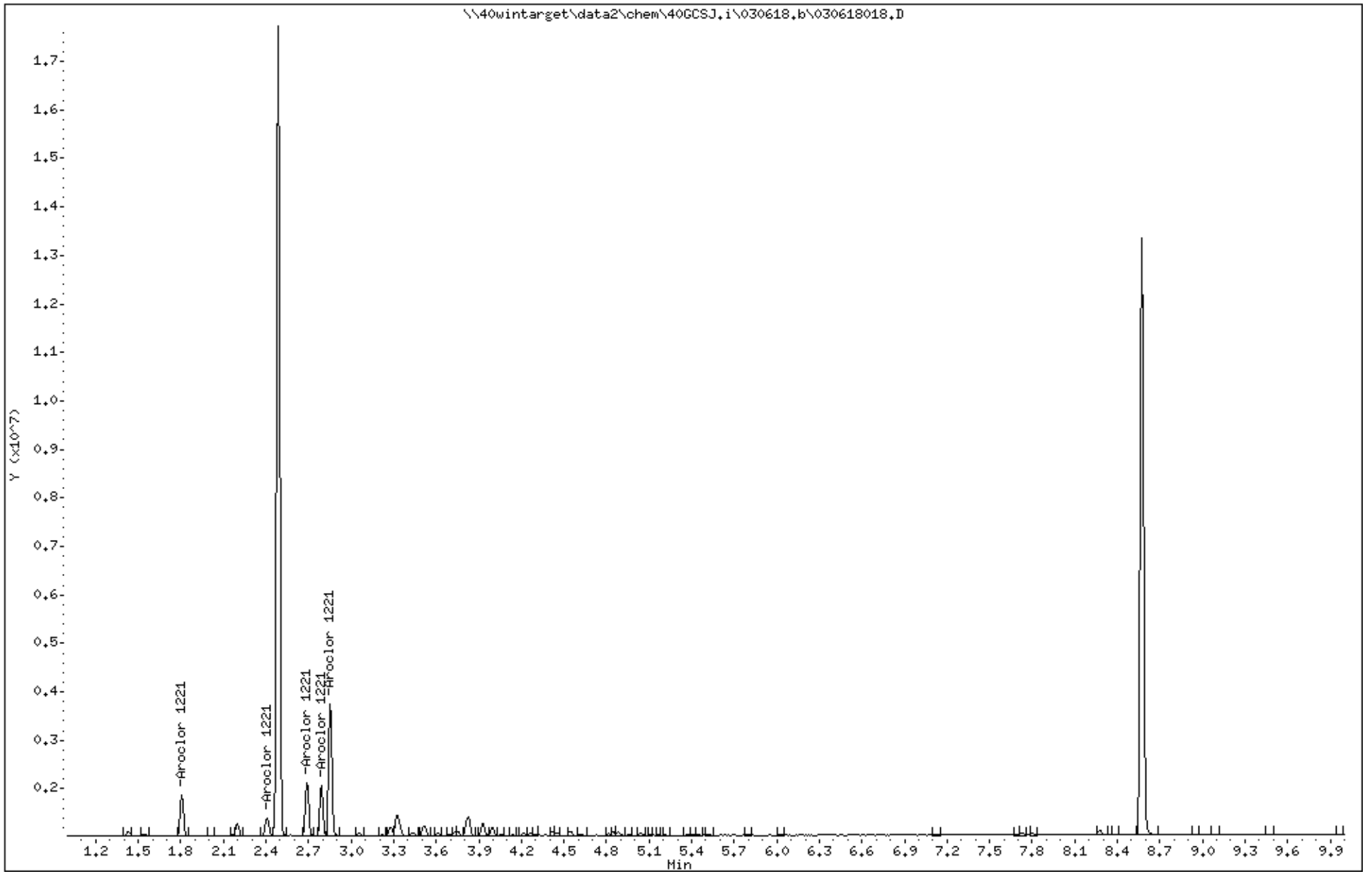
Instrument: 40GCSJ.i

Sample Info: 1221-CAL5F, 188141:1

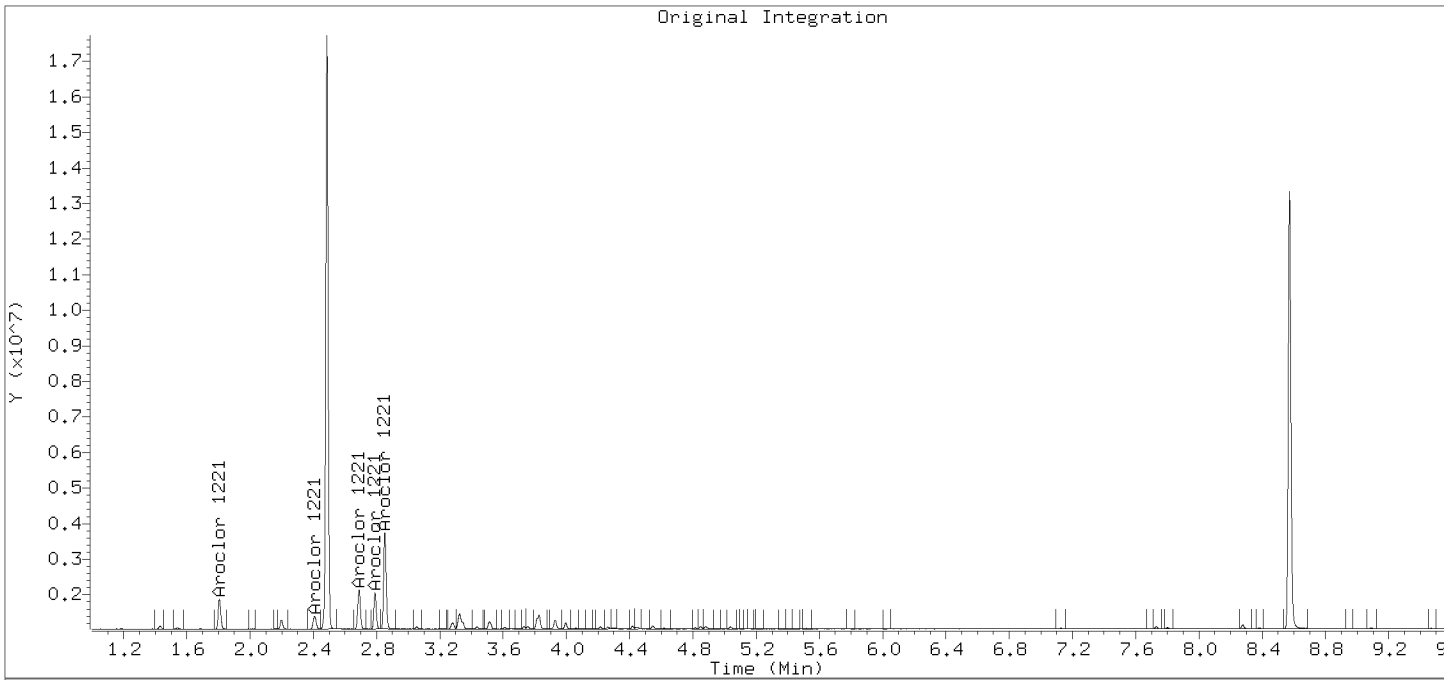
Operator: BLM

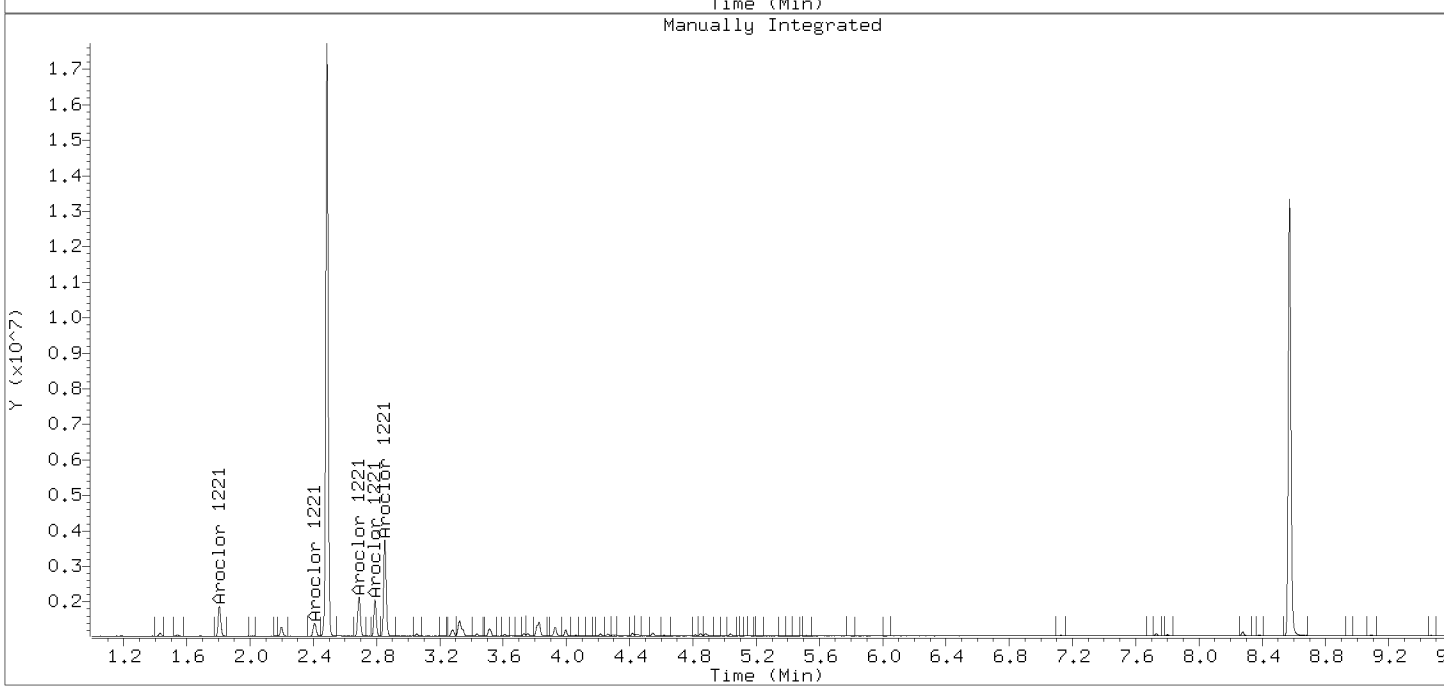
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 13:44

Client ID: 1242-CAL1B

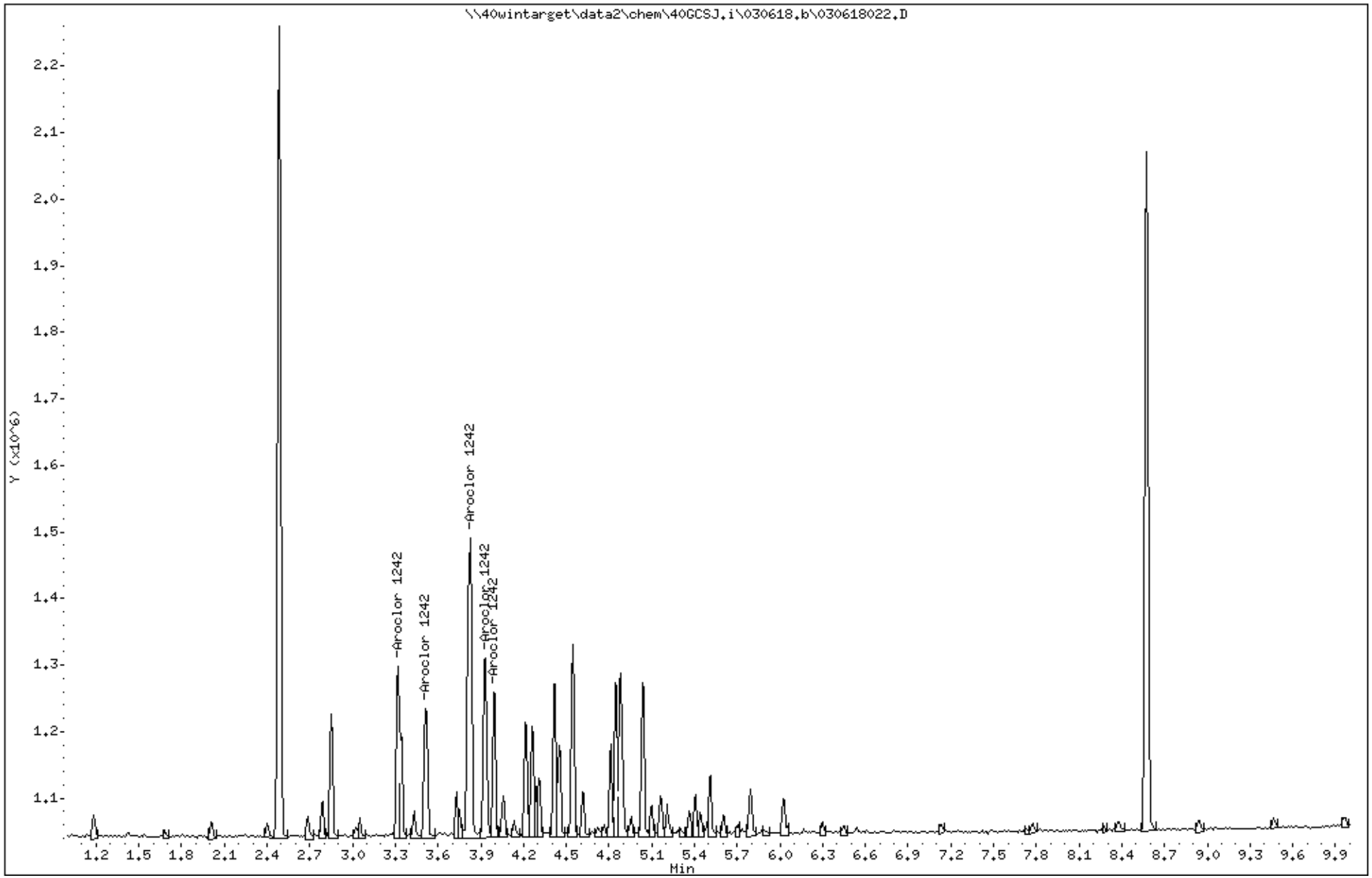
Instrument: 40GCSJ.i

Sample Info: 1242-CAL1B, 188132:1

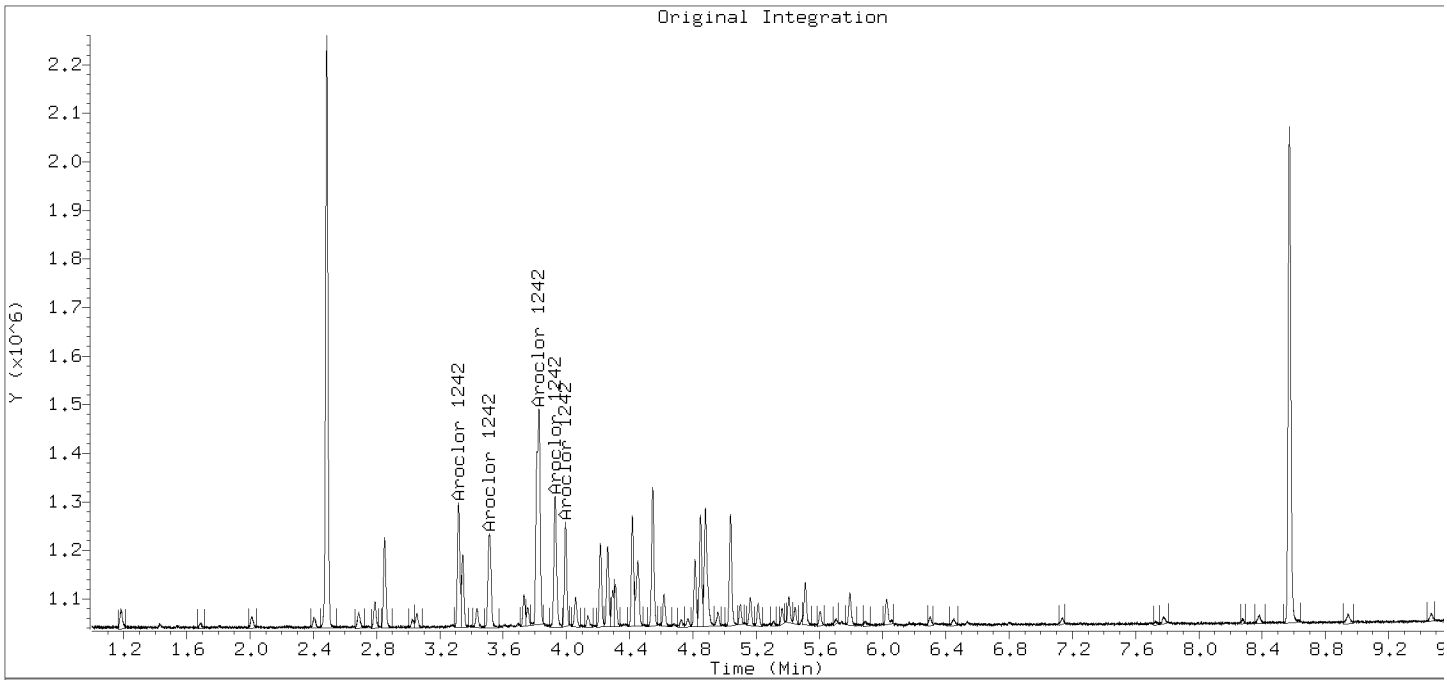
Operator: BLM

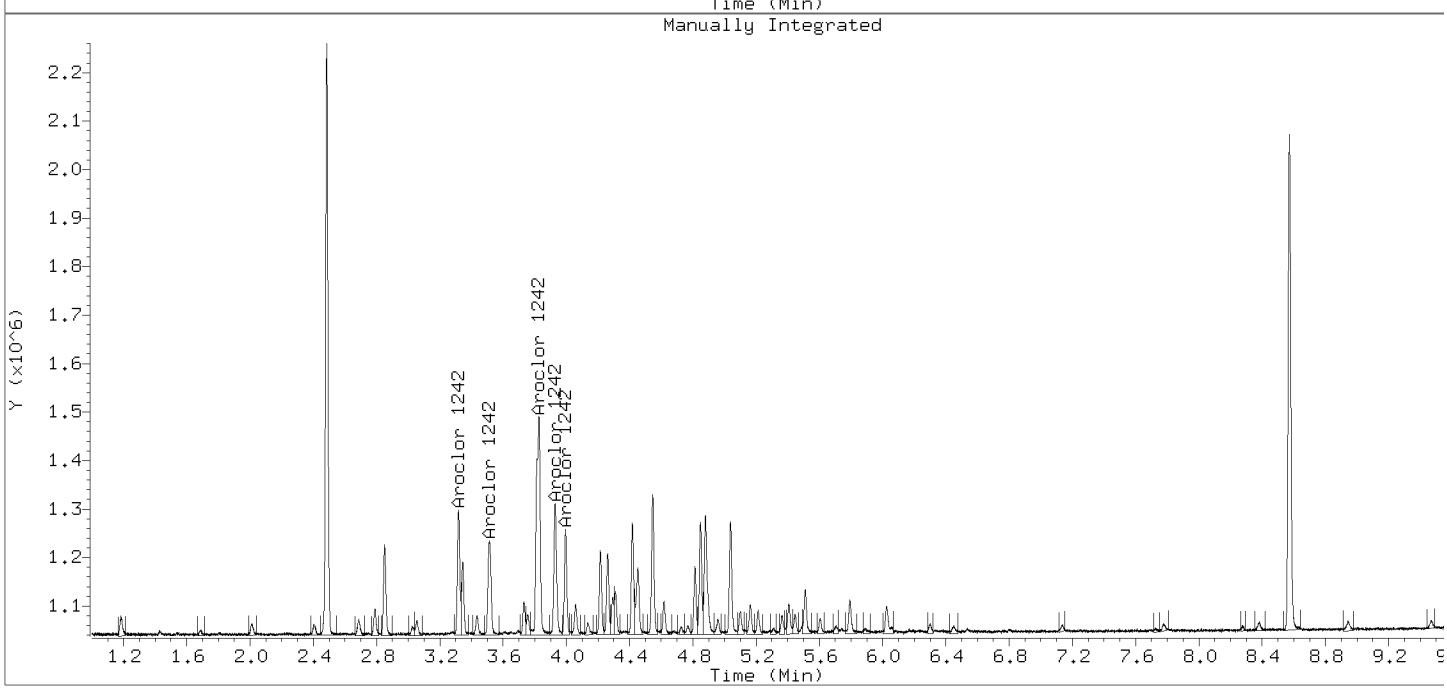
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

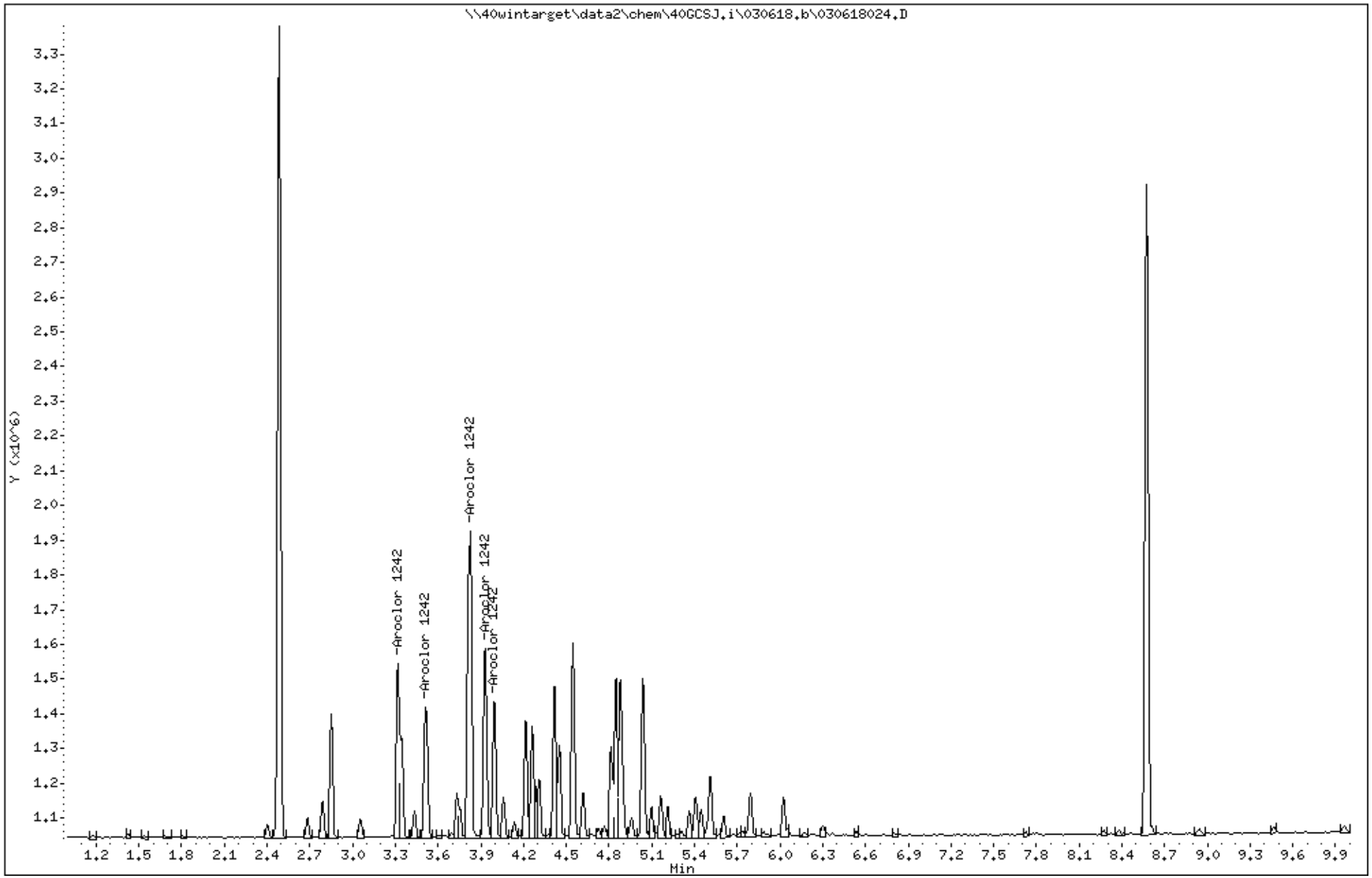
M - Compound response manually integrated.

Review Codes Legend

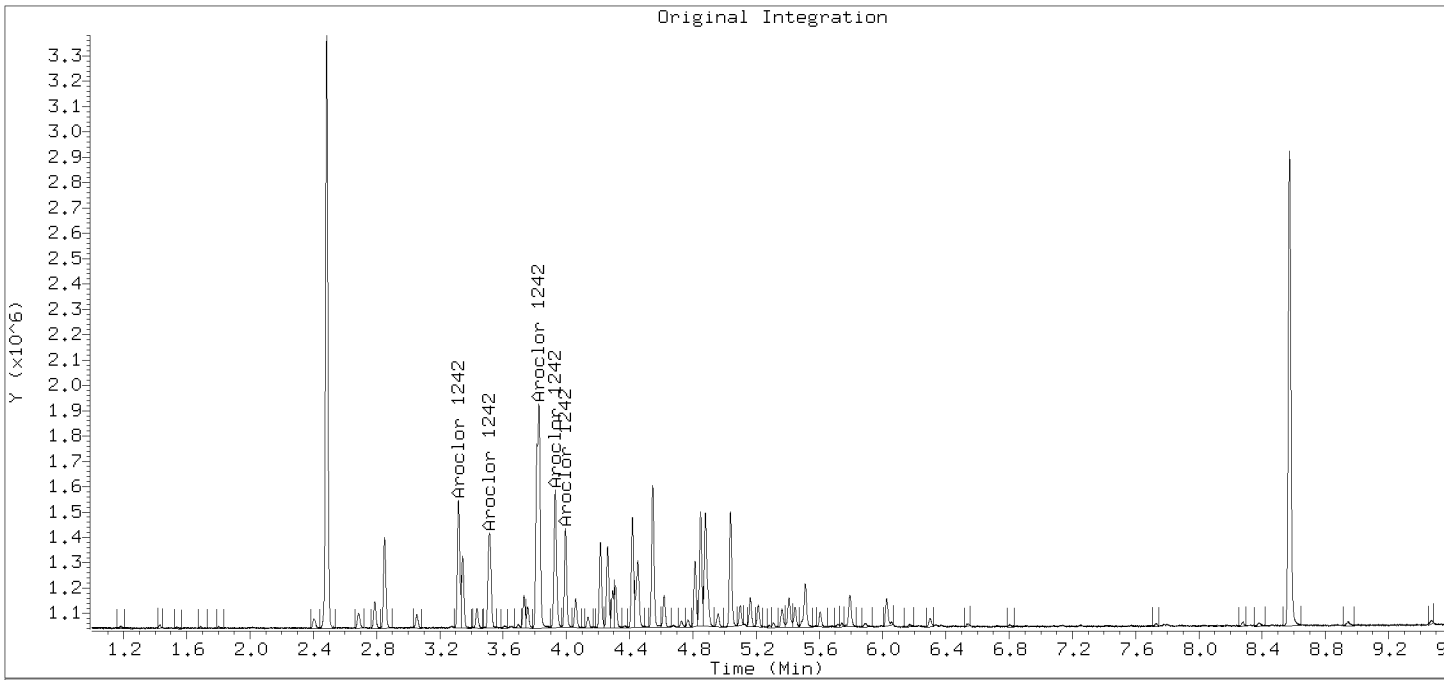
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

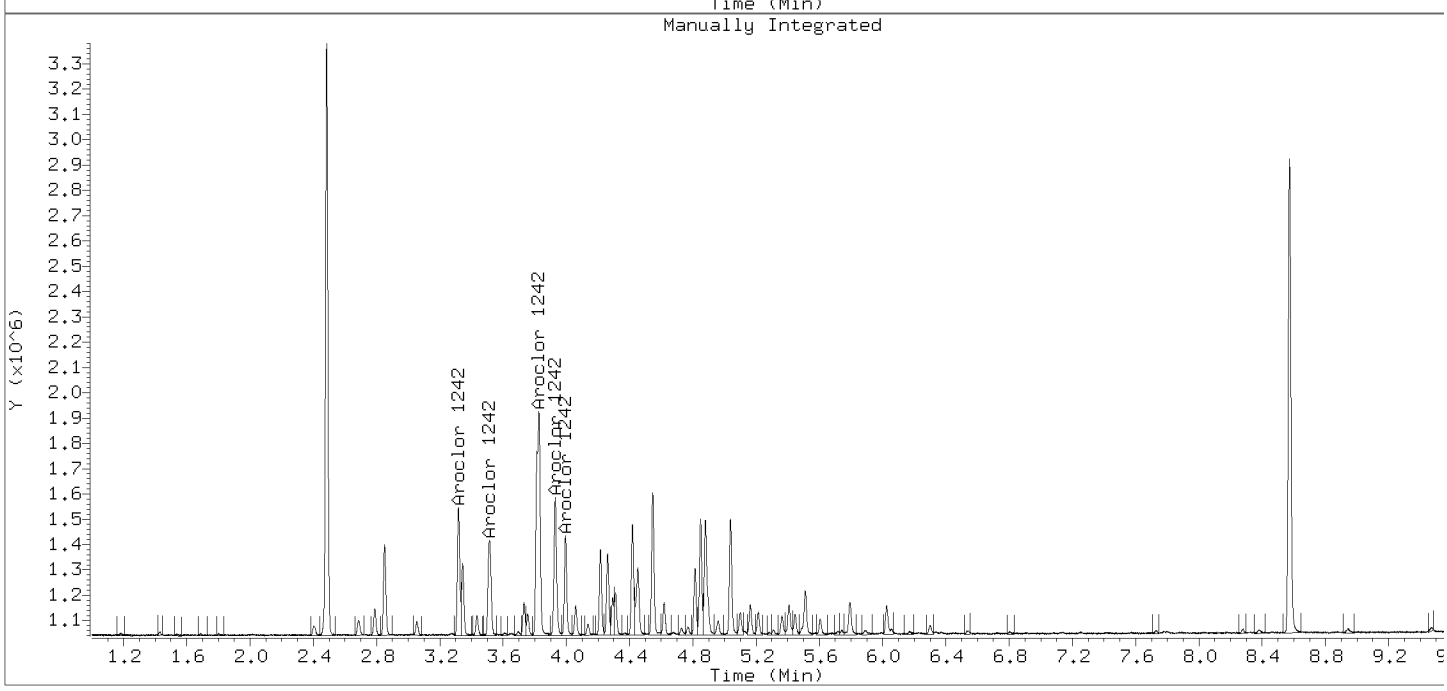
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618024.D
Date : 06-MAR-2018 14:00
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 14:16

Client ID: 1242-CAL3B

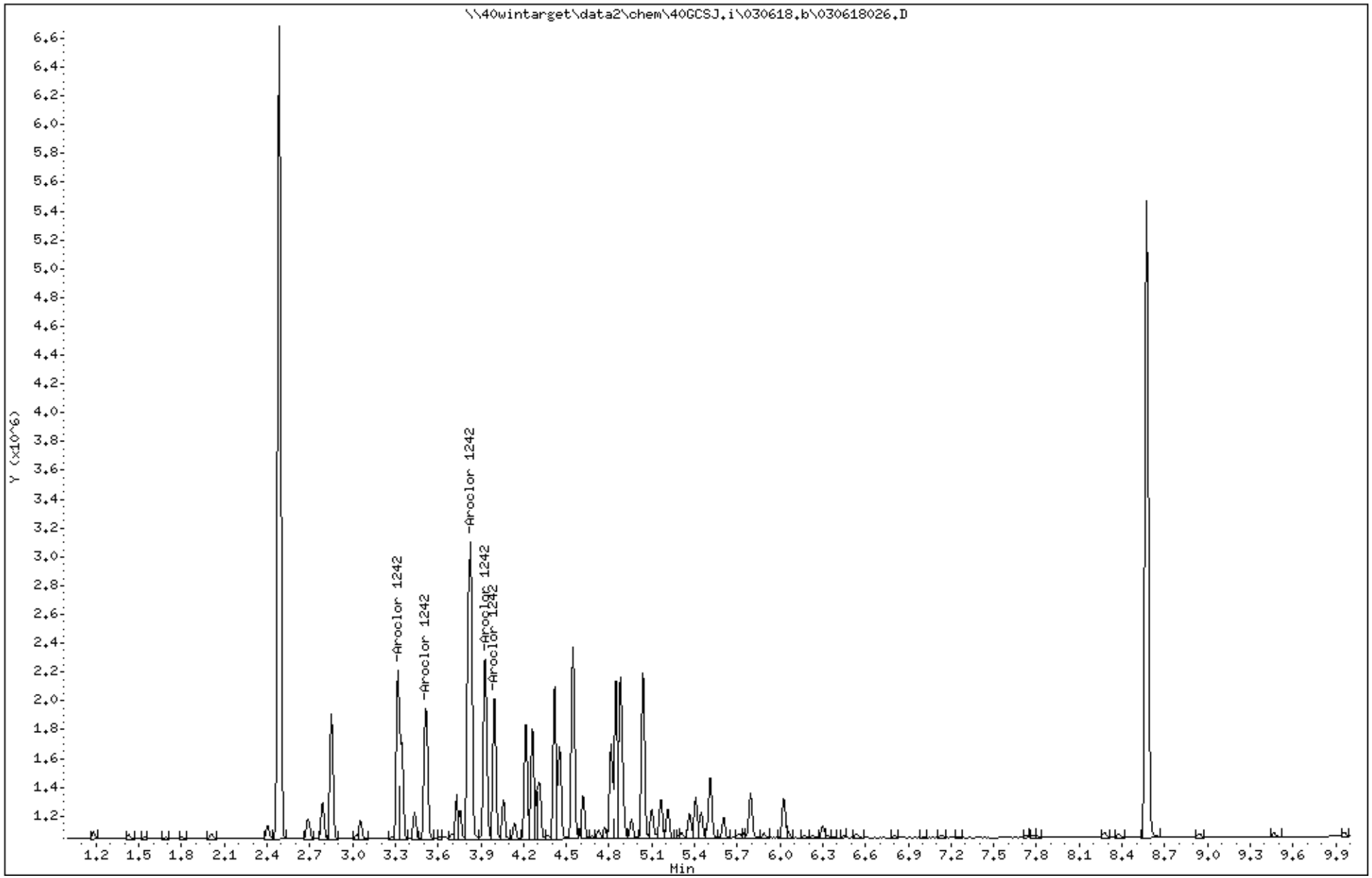
Instrument: 40GCSJ.i

Sample Info: 1242-CAL3B, 185544:1

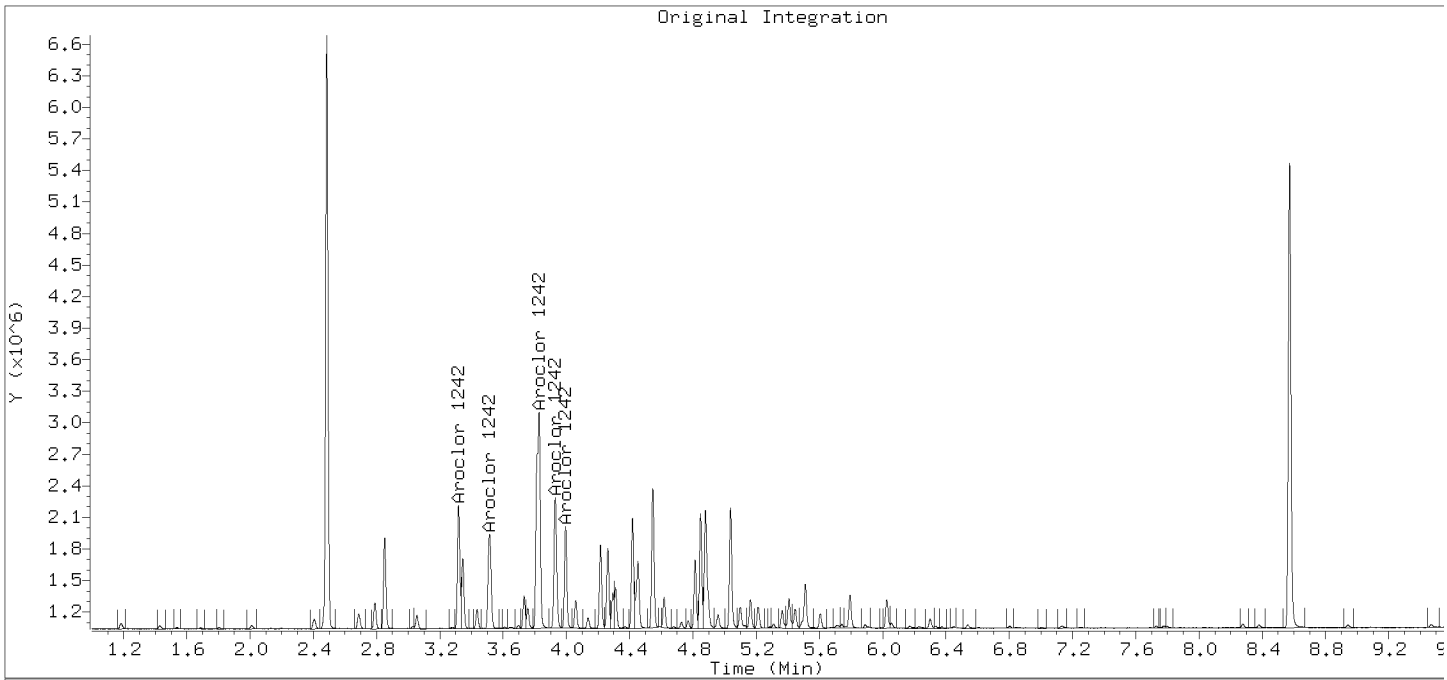
Operator: BLM

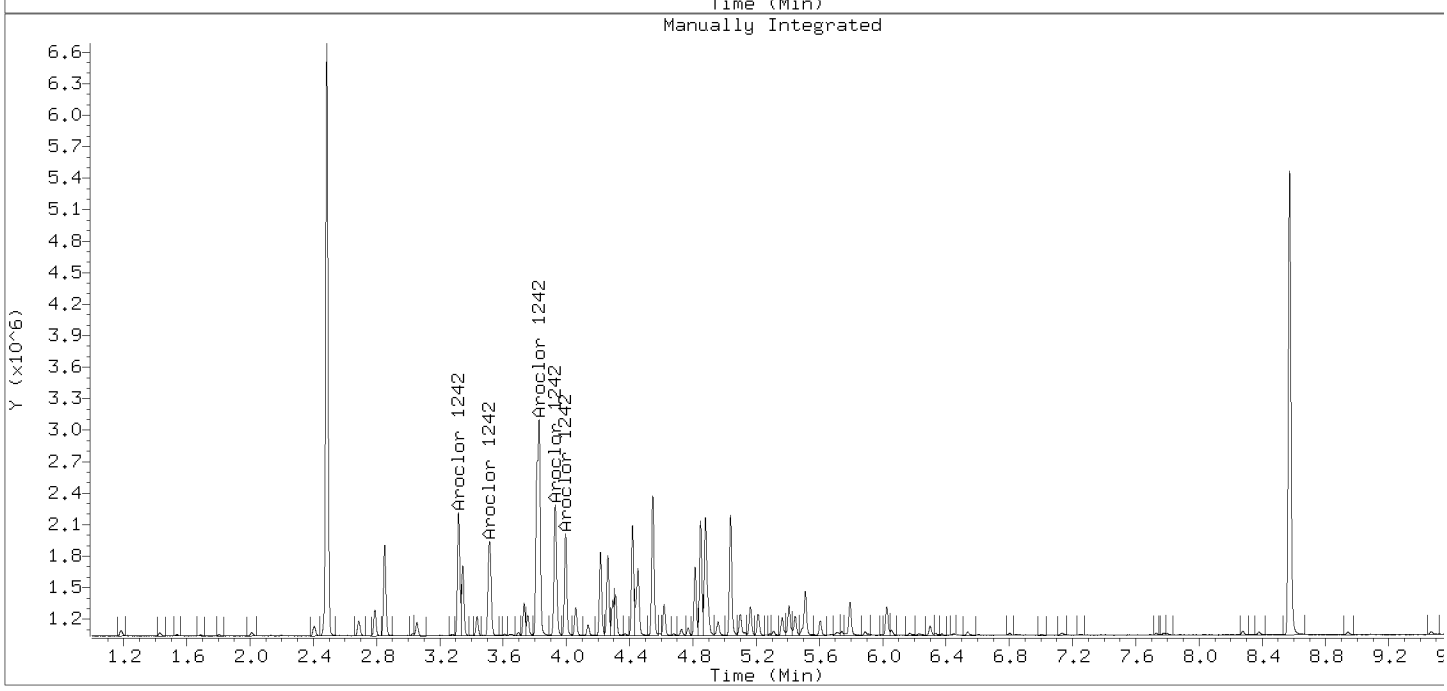
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 14:32

Client ID: 1242-CAL4B

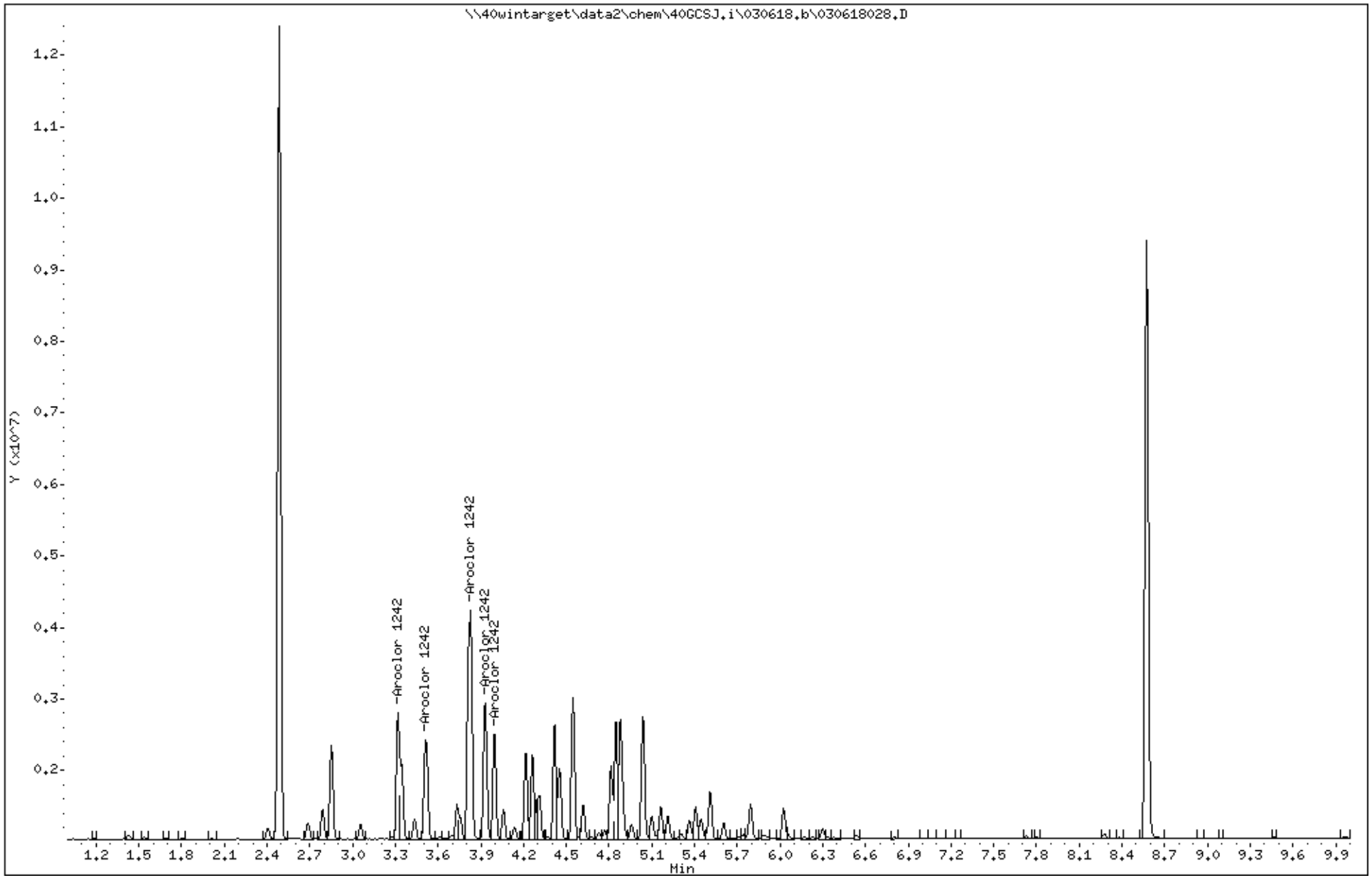
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

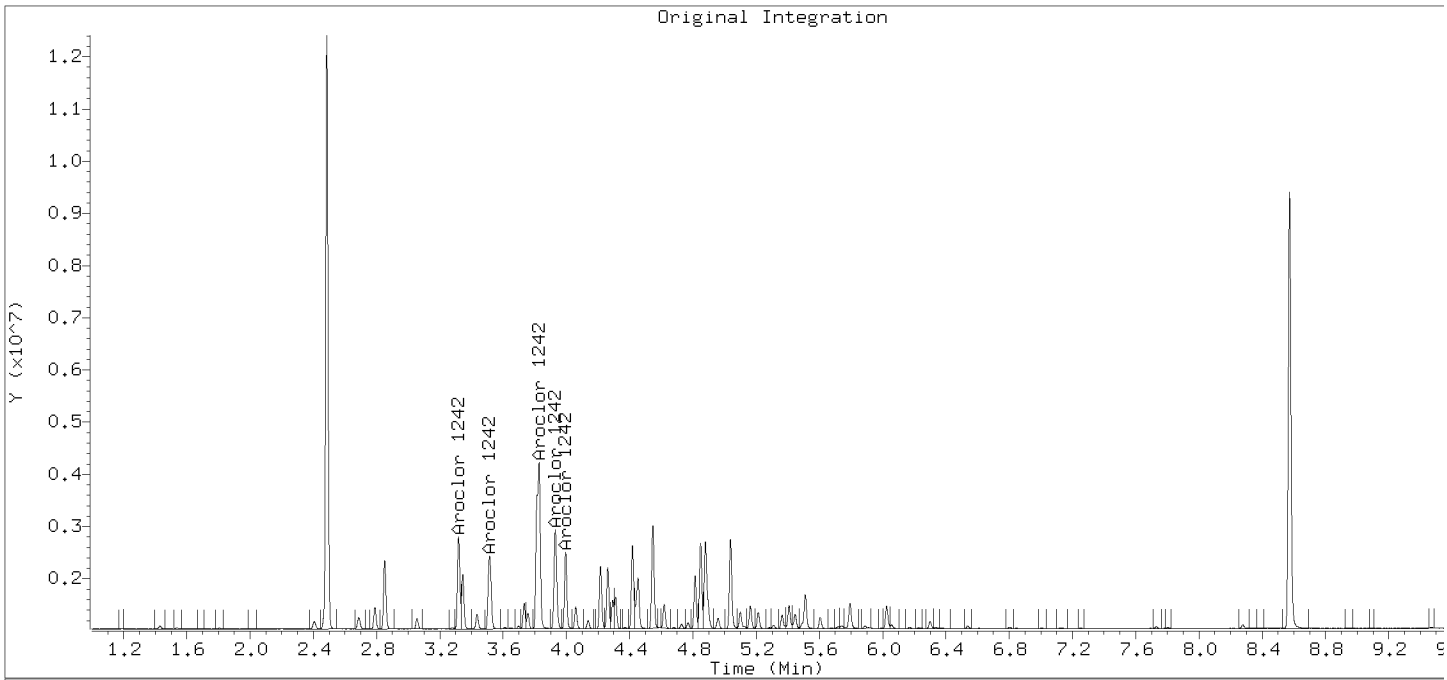
Operator: BLM

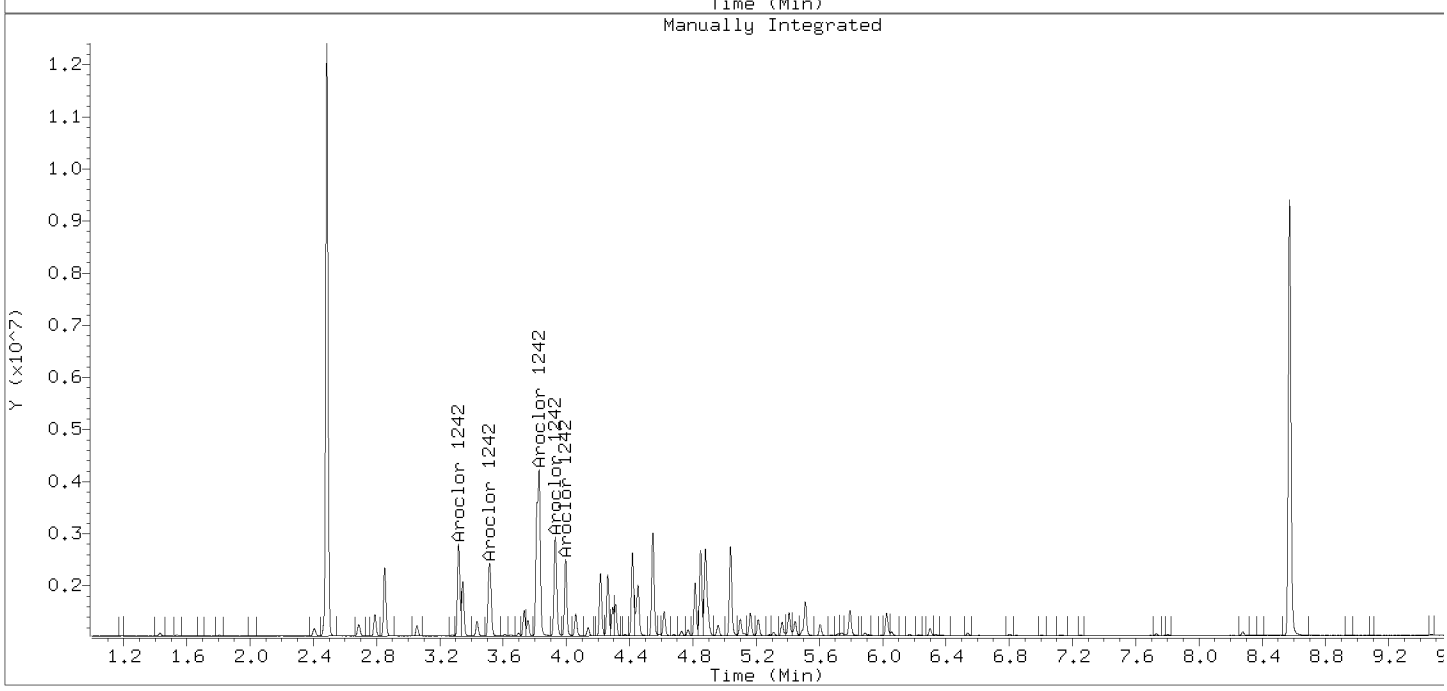
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

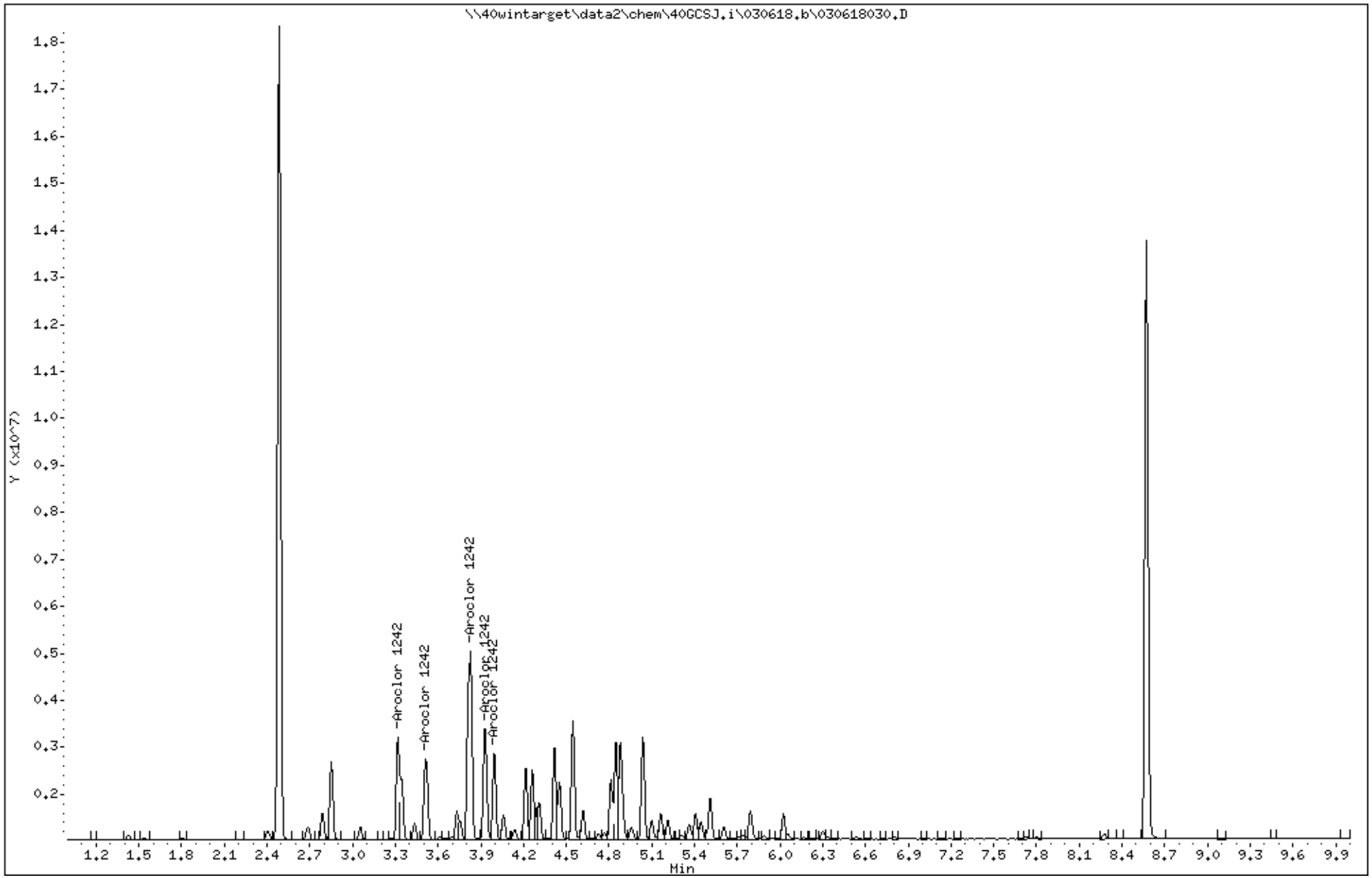
M - Compound response manually integrated.

Review Codes Legend

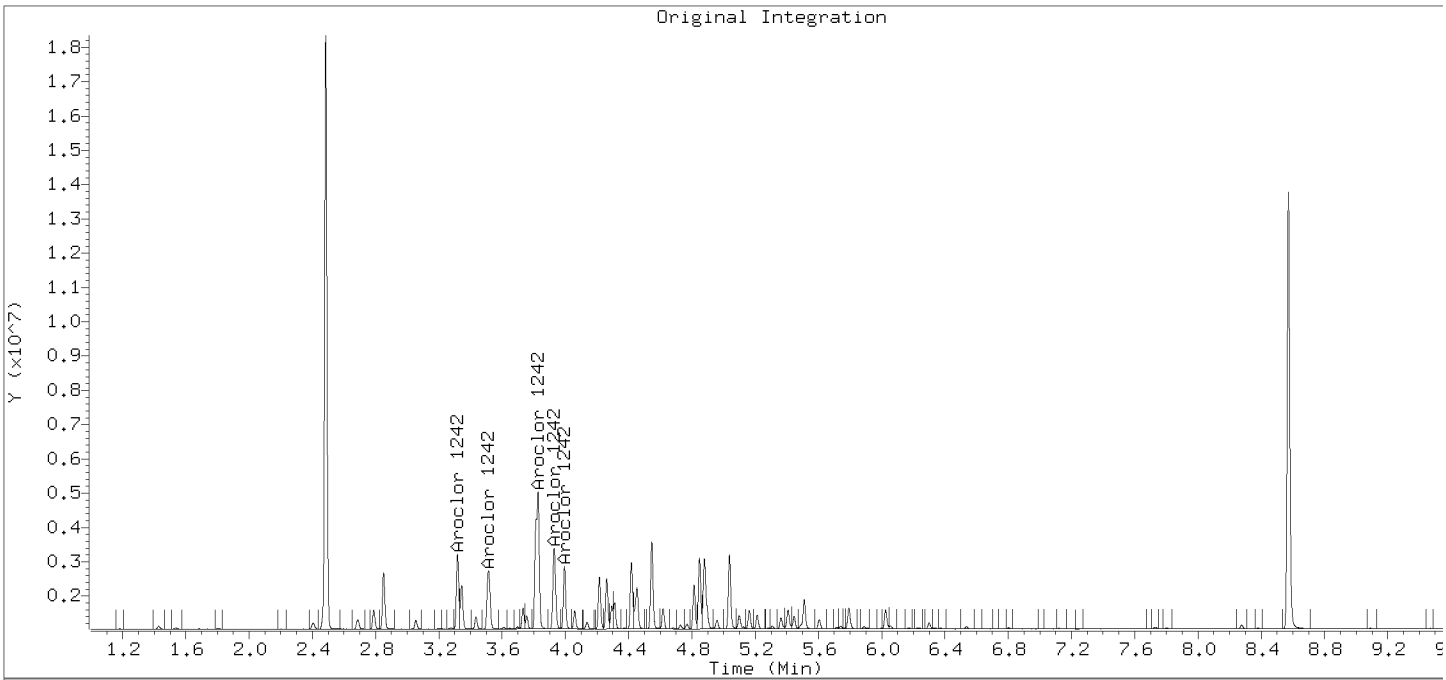
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

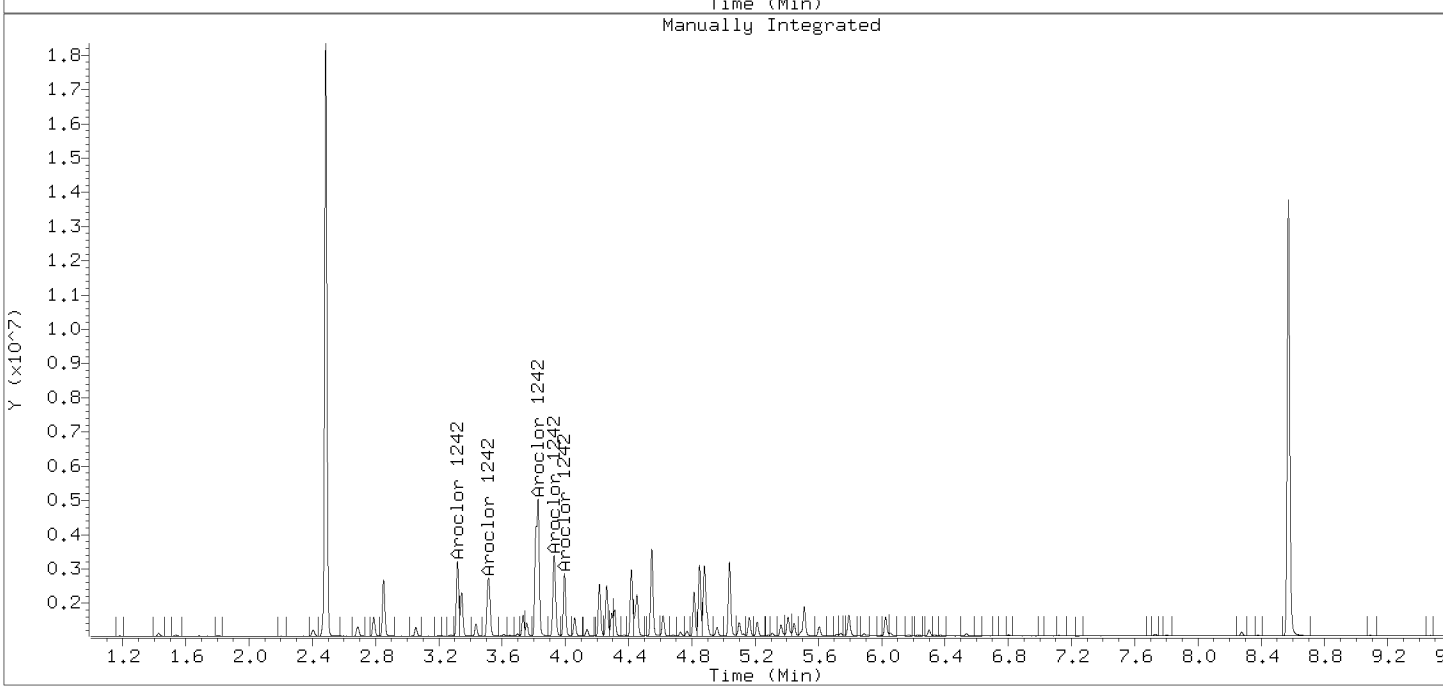
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

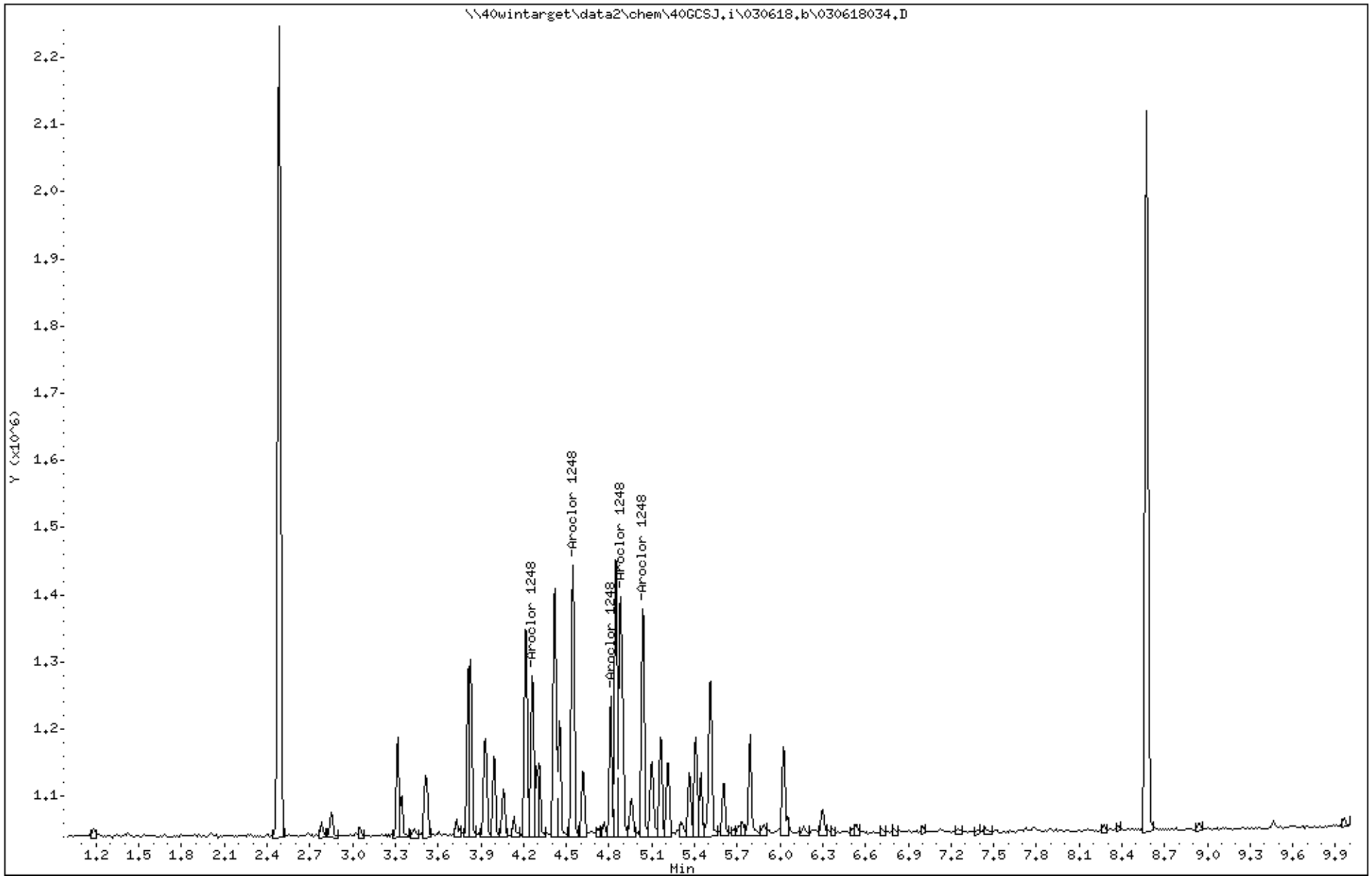
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSJ.i

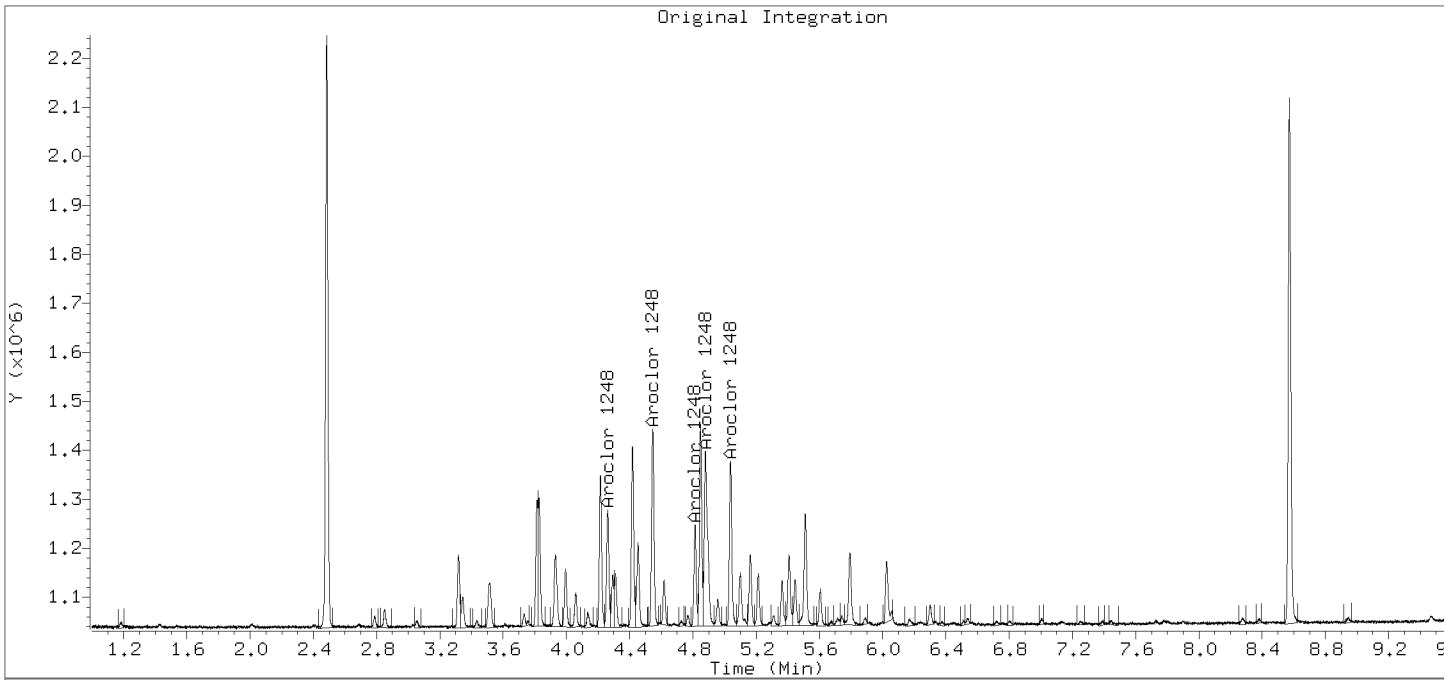
Operator: BLM

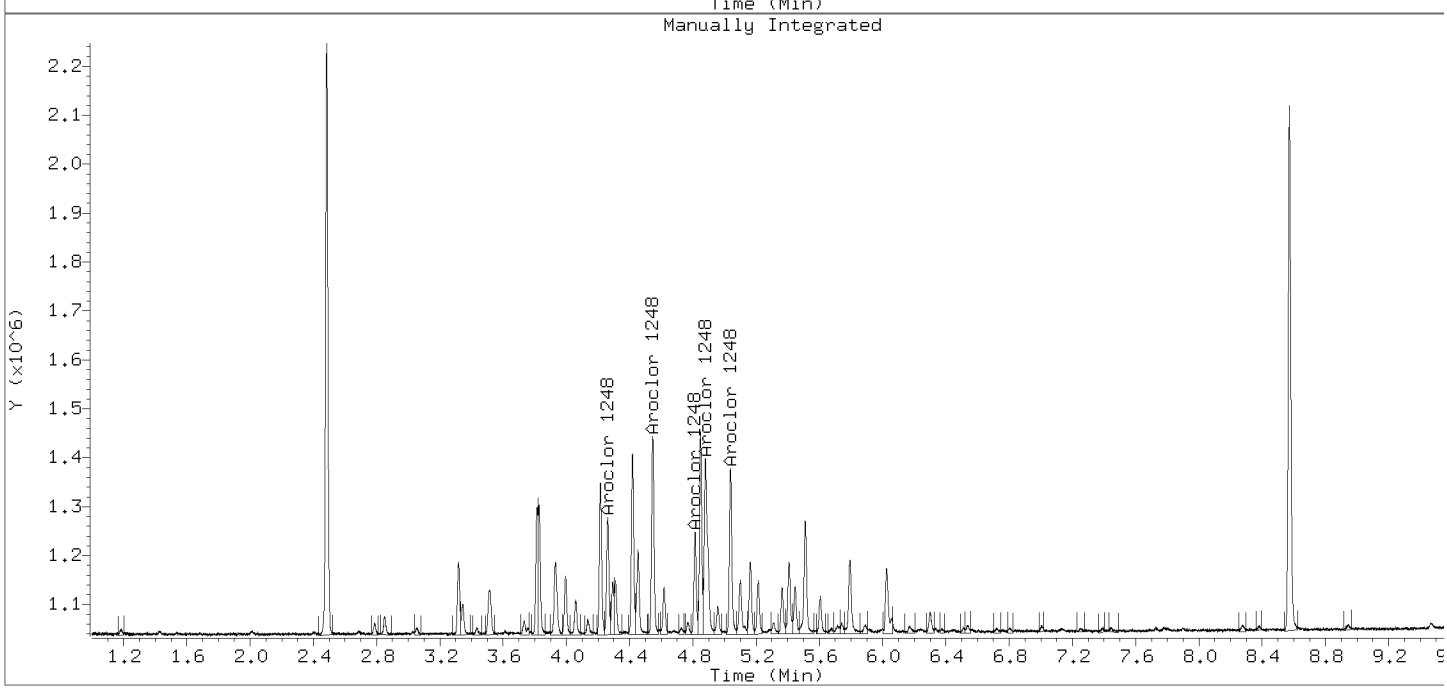
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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

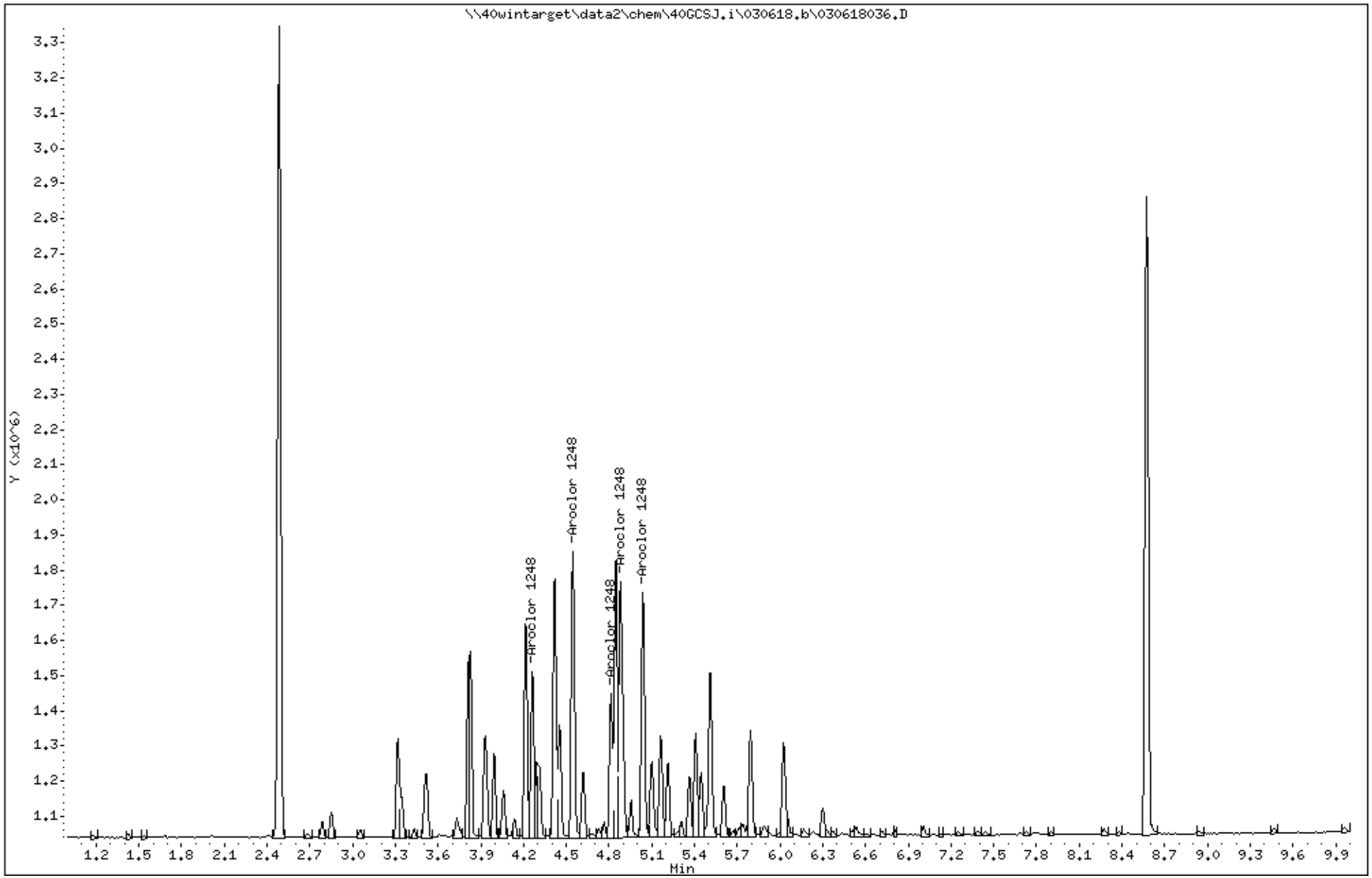
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

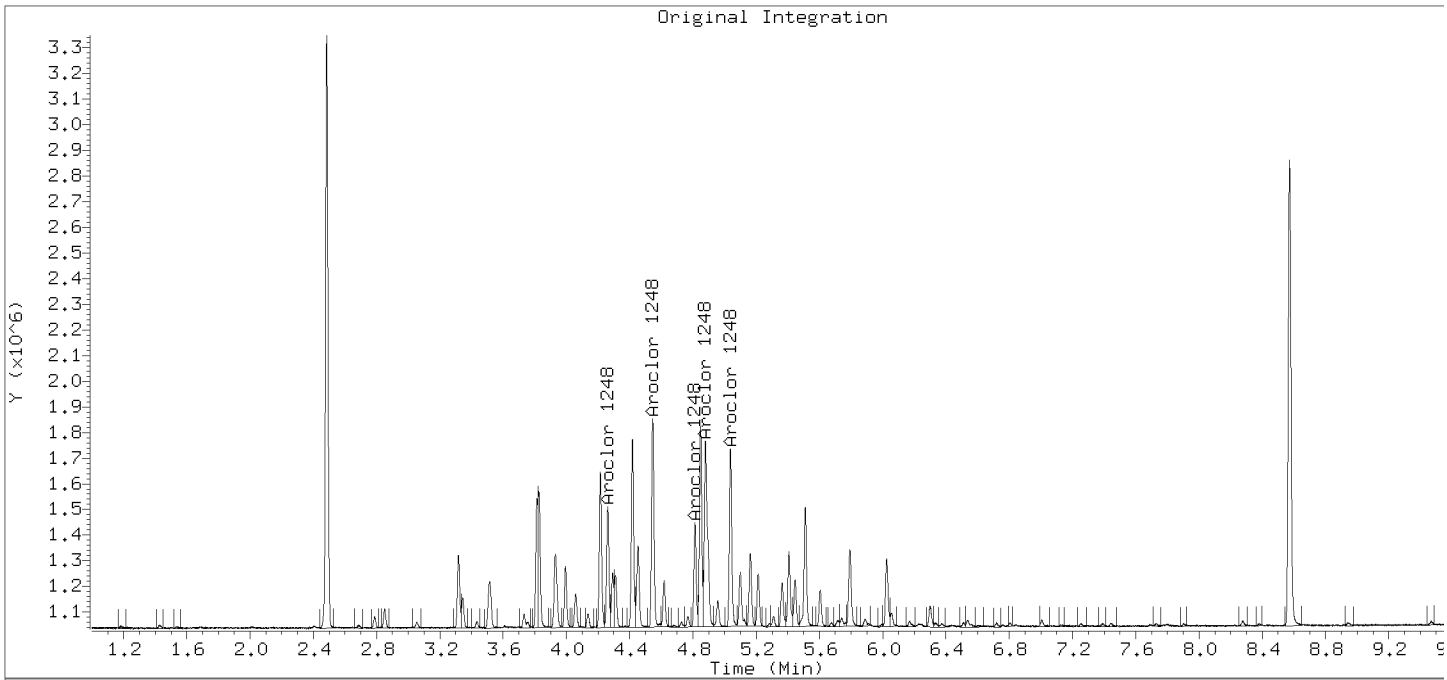
Operator: BLM

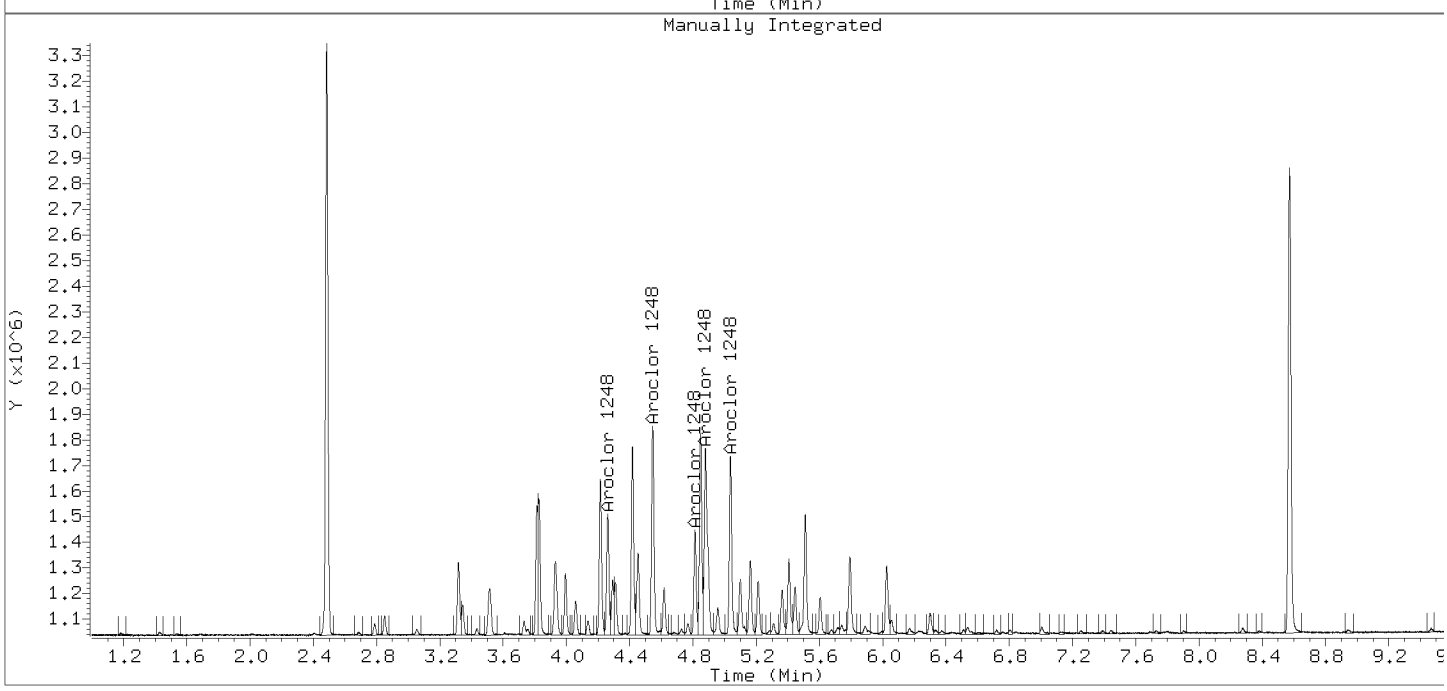
Column phase: ZB-1ms

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

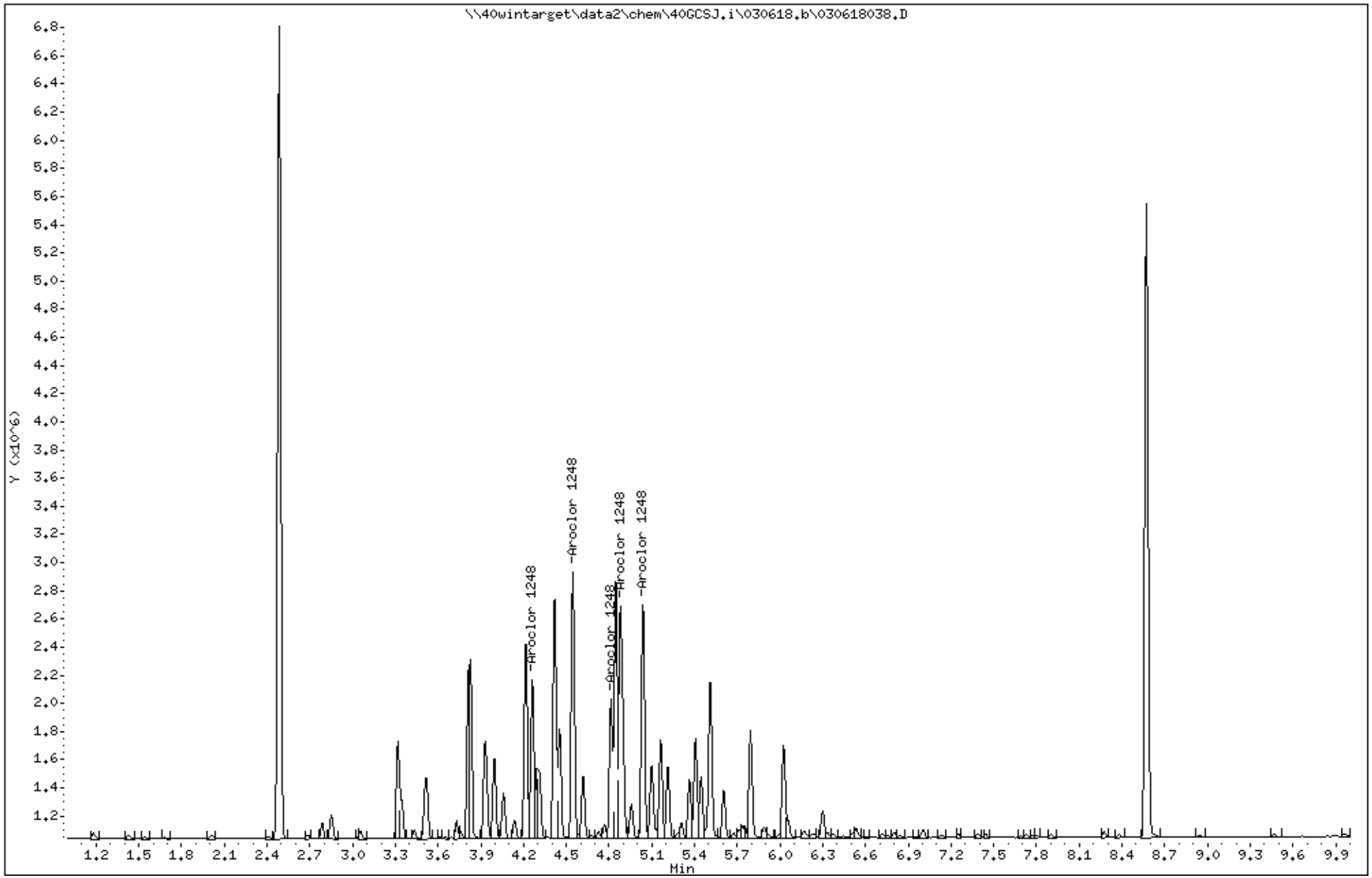
Instrument: 40GCSJ.i

Sample Info: 1248-CAL3D, 185549:1

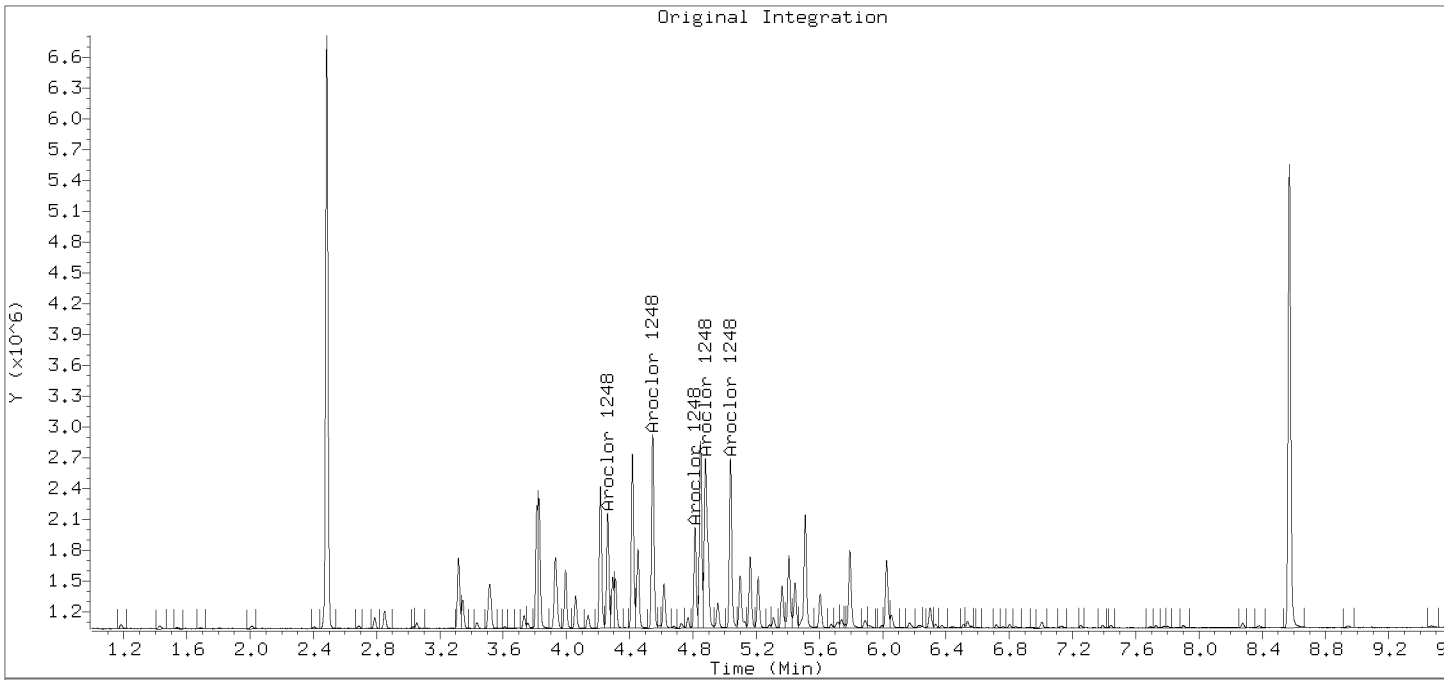
Operator: BLM

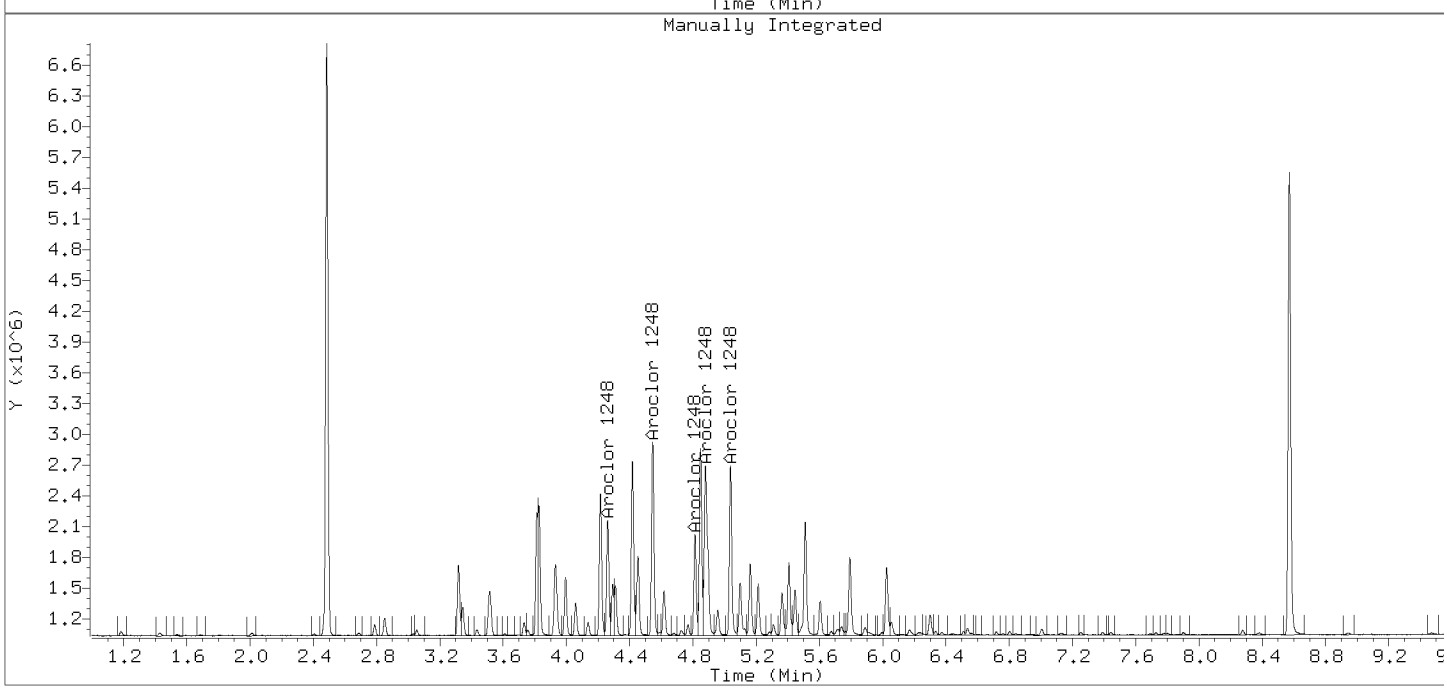
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:09

Client ID: 1248-CAL4D

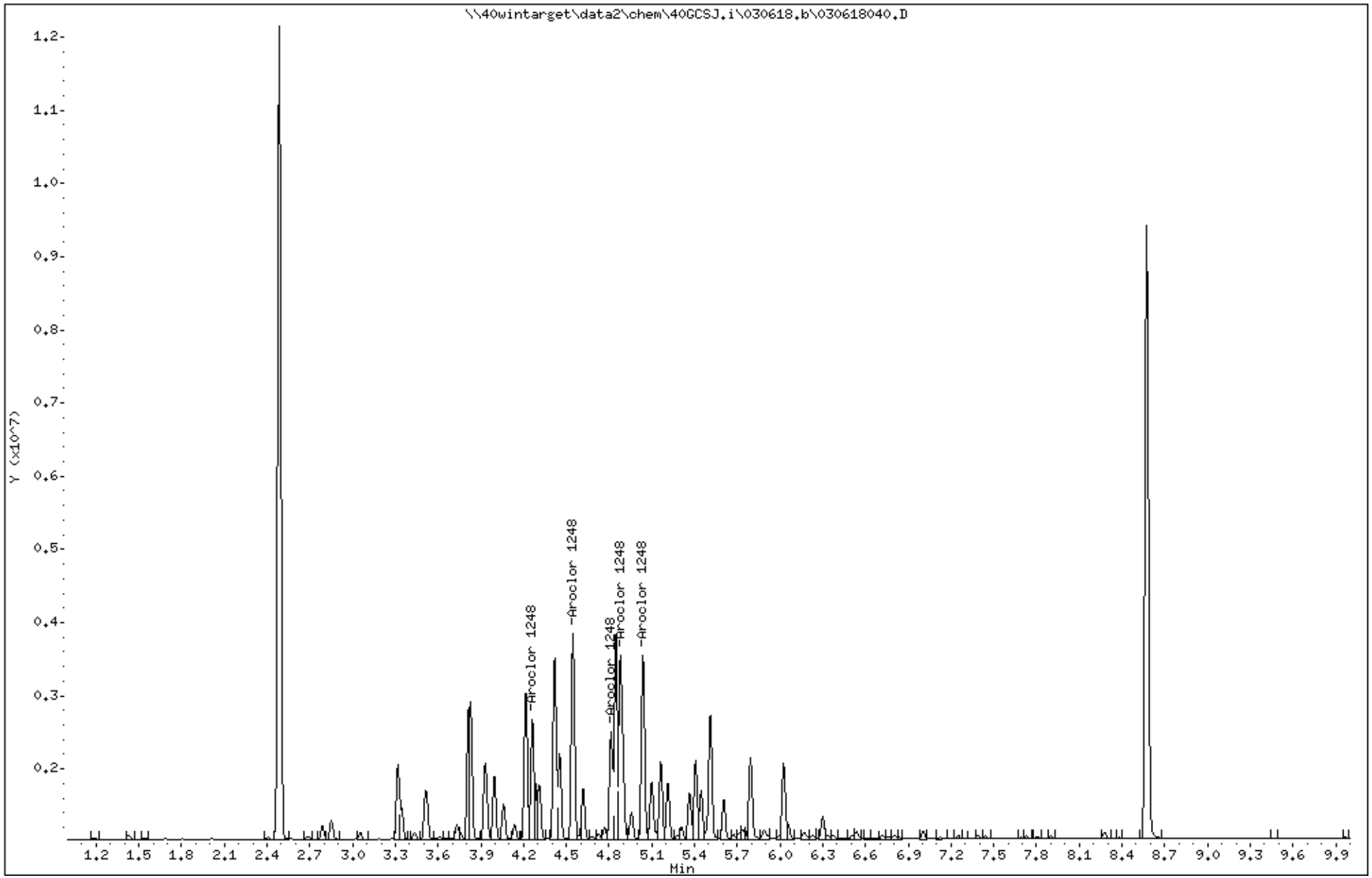
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

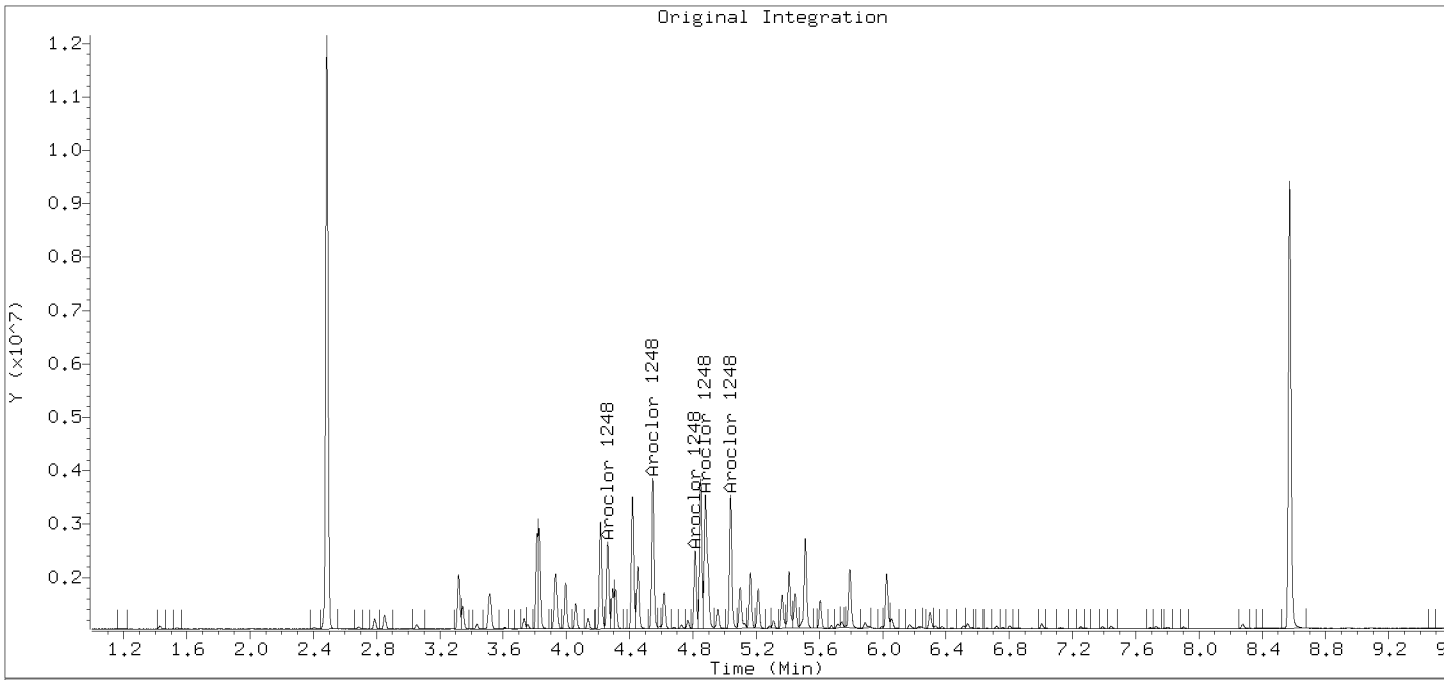
Operator: BLM

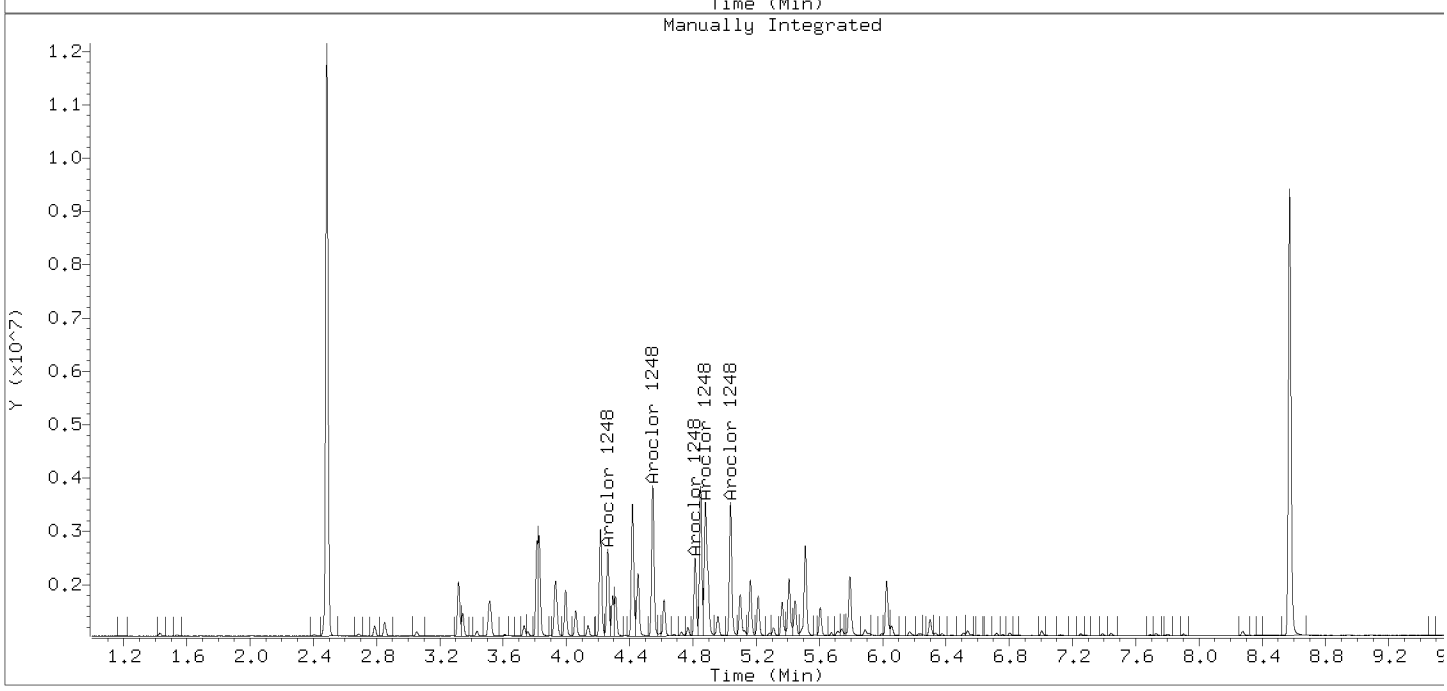
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:25

Client ID: 1248-CAL5D

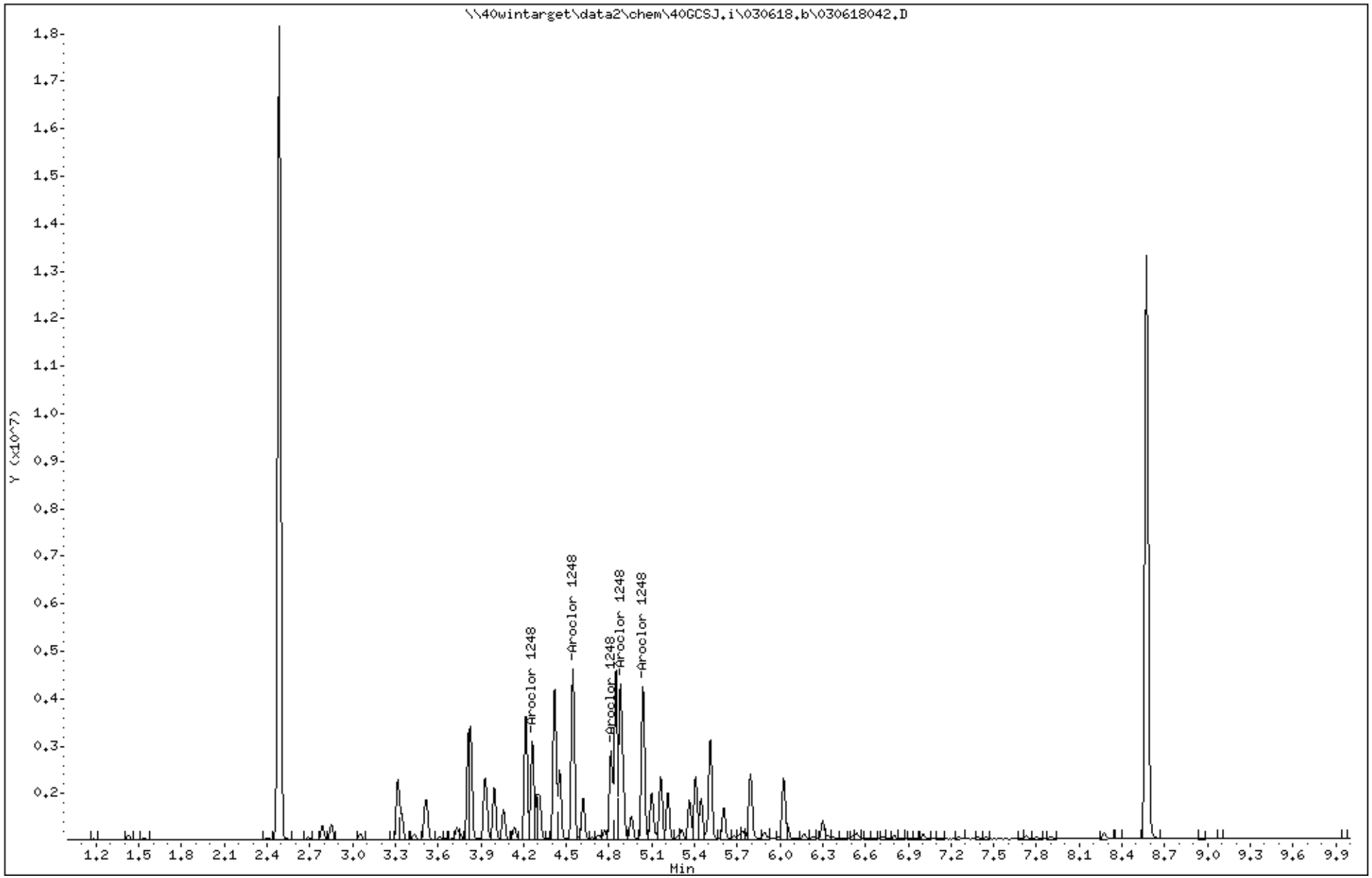
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

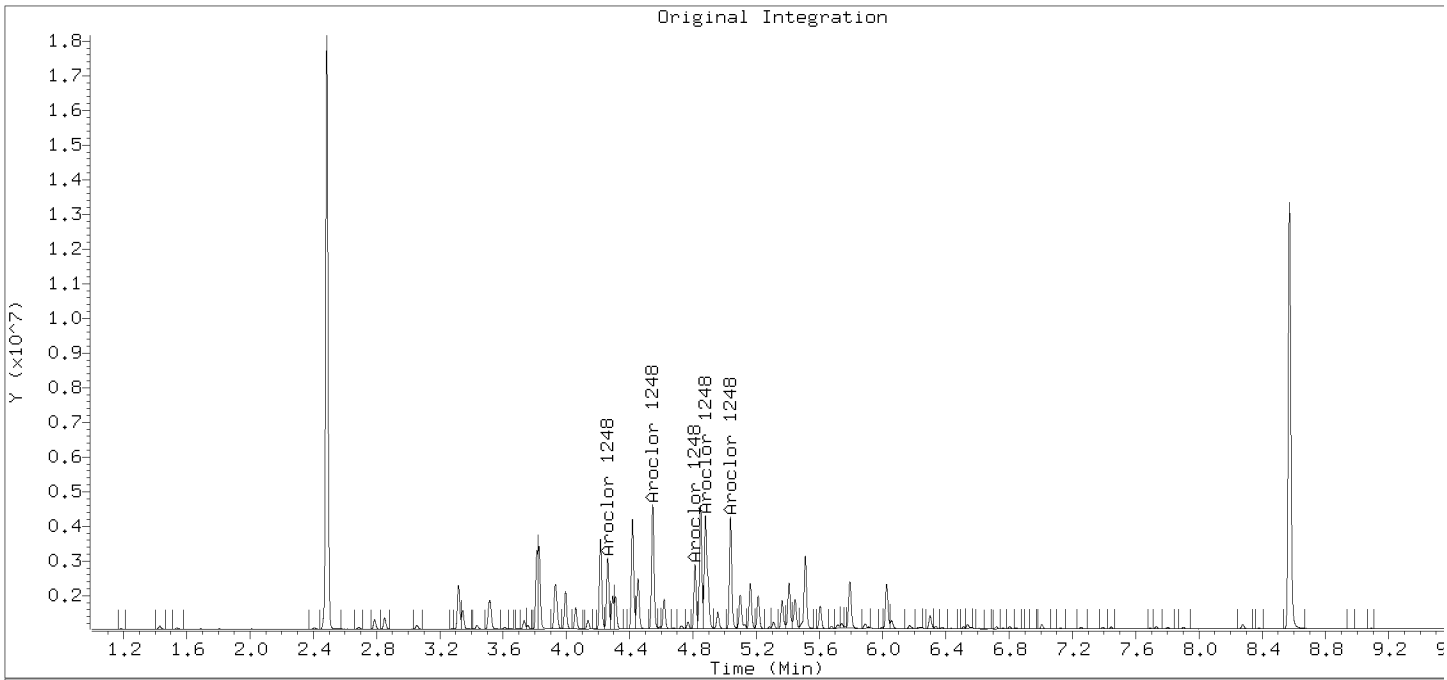
Operator: BLM

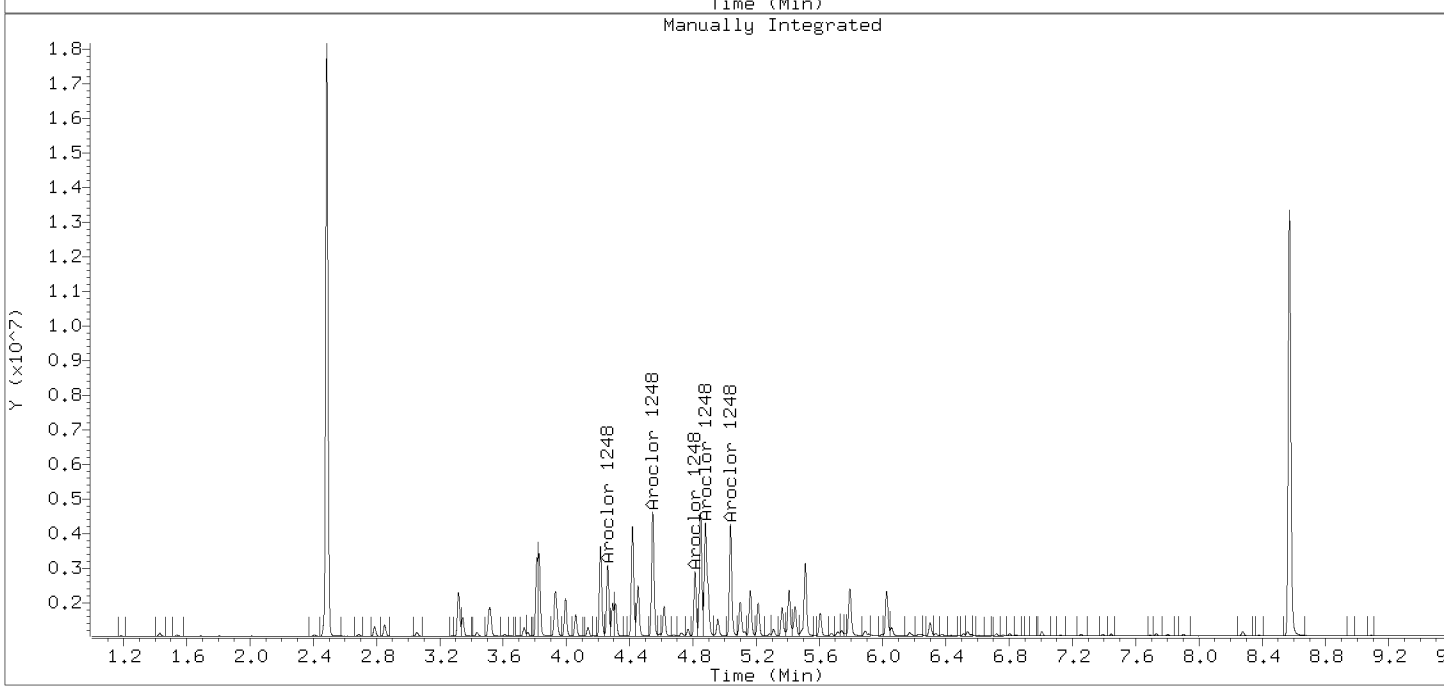
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:57

Client ID: 1254-CAL1C

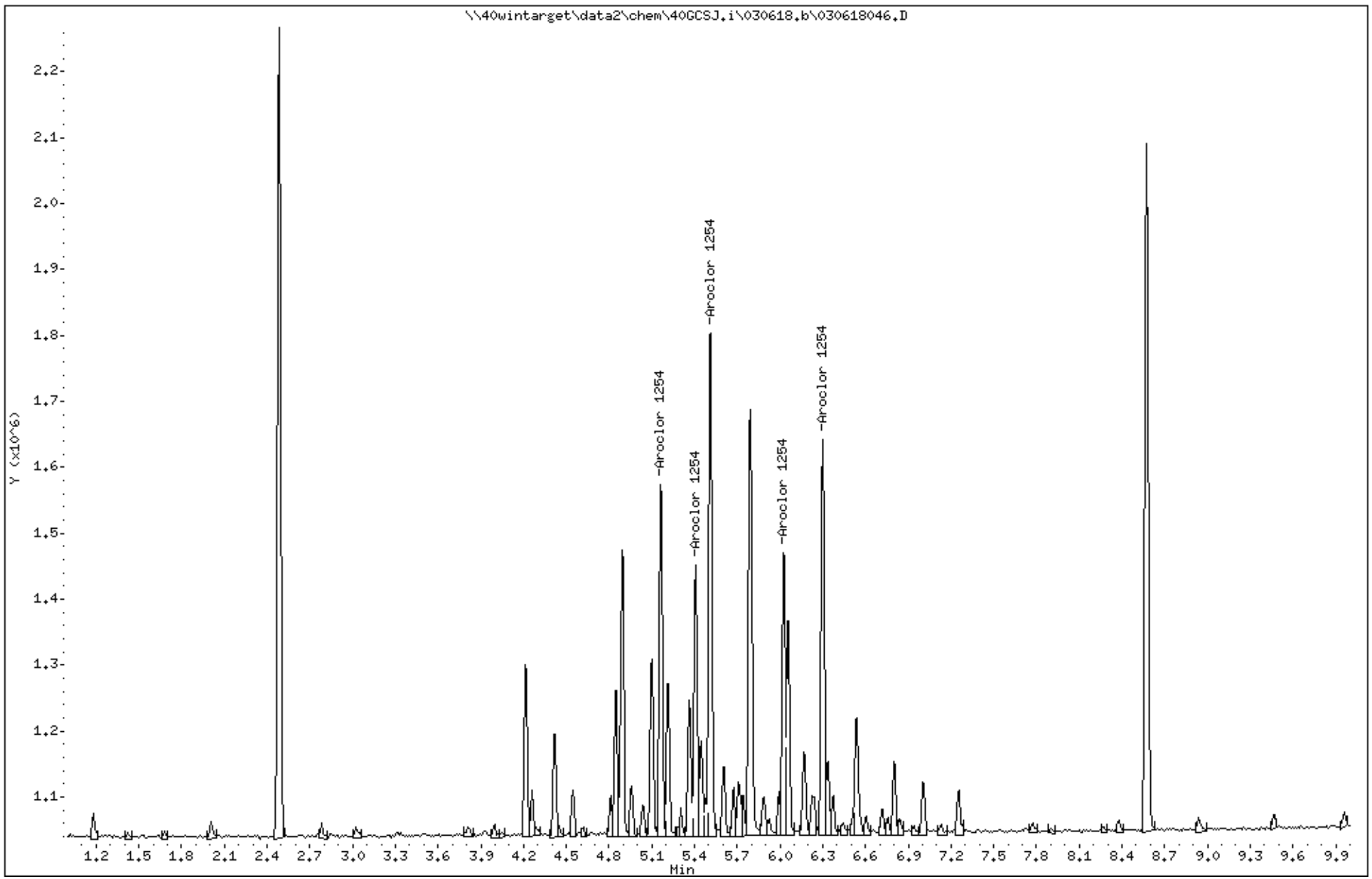
Instrument: 40GCSJ.i

Sample Info: 1254-CAL1C, 188135:1

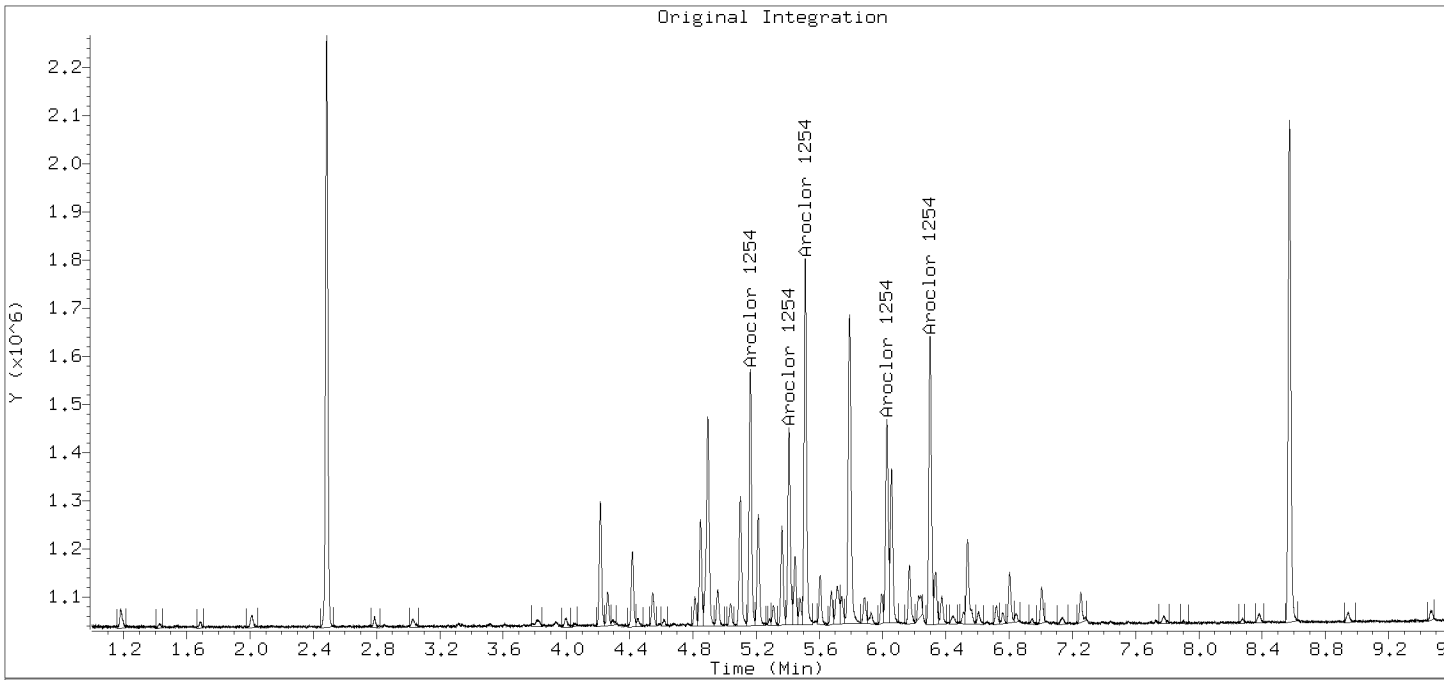
Operator: BLM

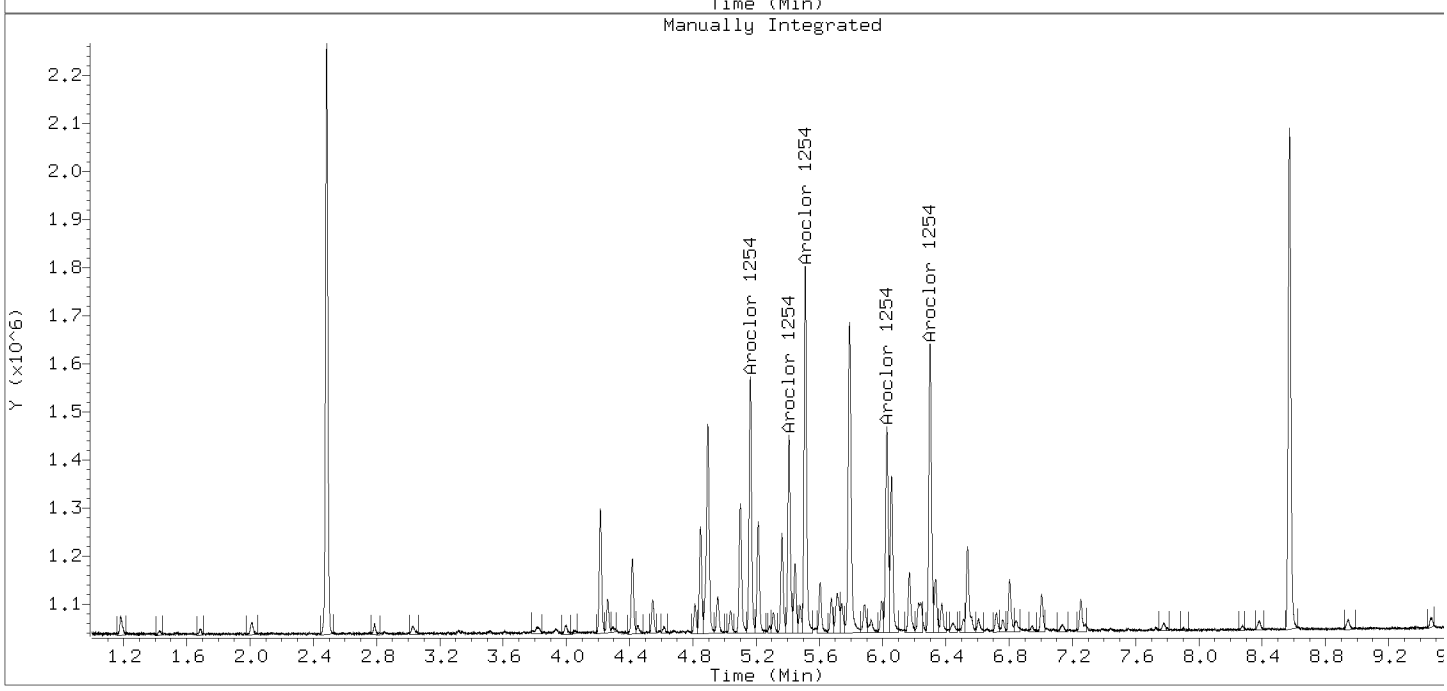
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:13

Client ID: 1254-CAL2C

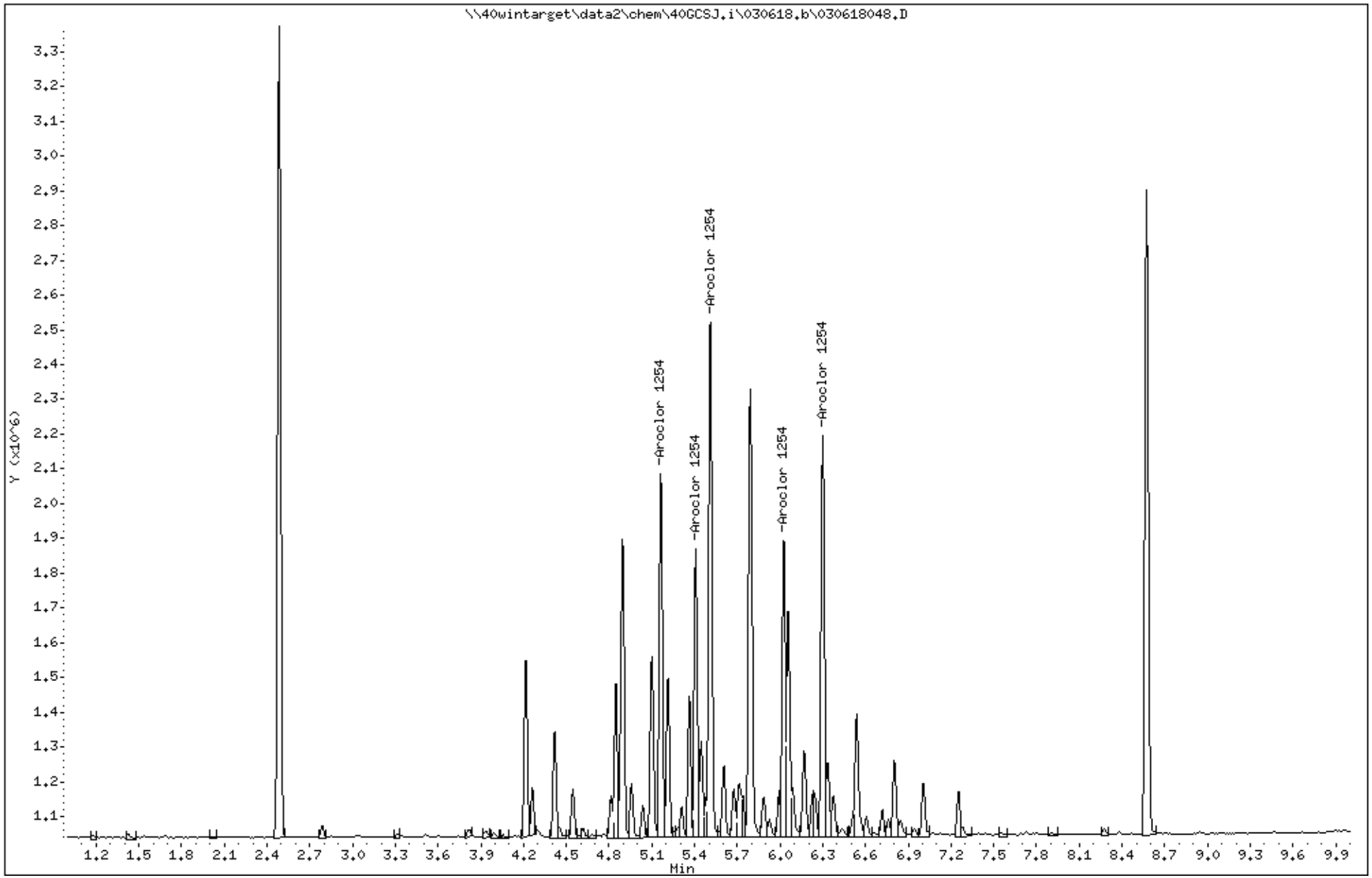
Instrument: 40GCSJ.i

Sample Info: 1254-CAL2C, 185553:1

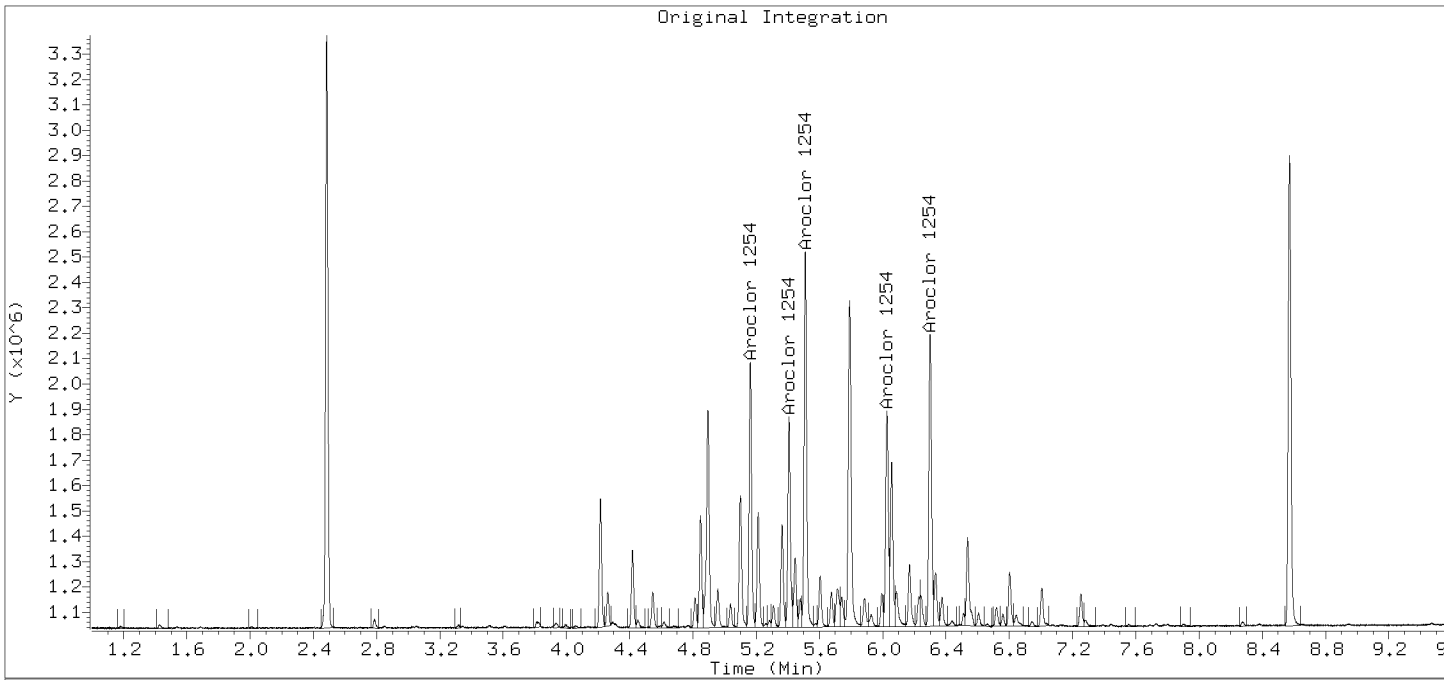
Operator: BLM

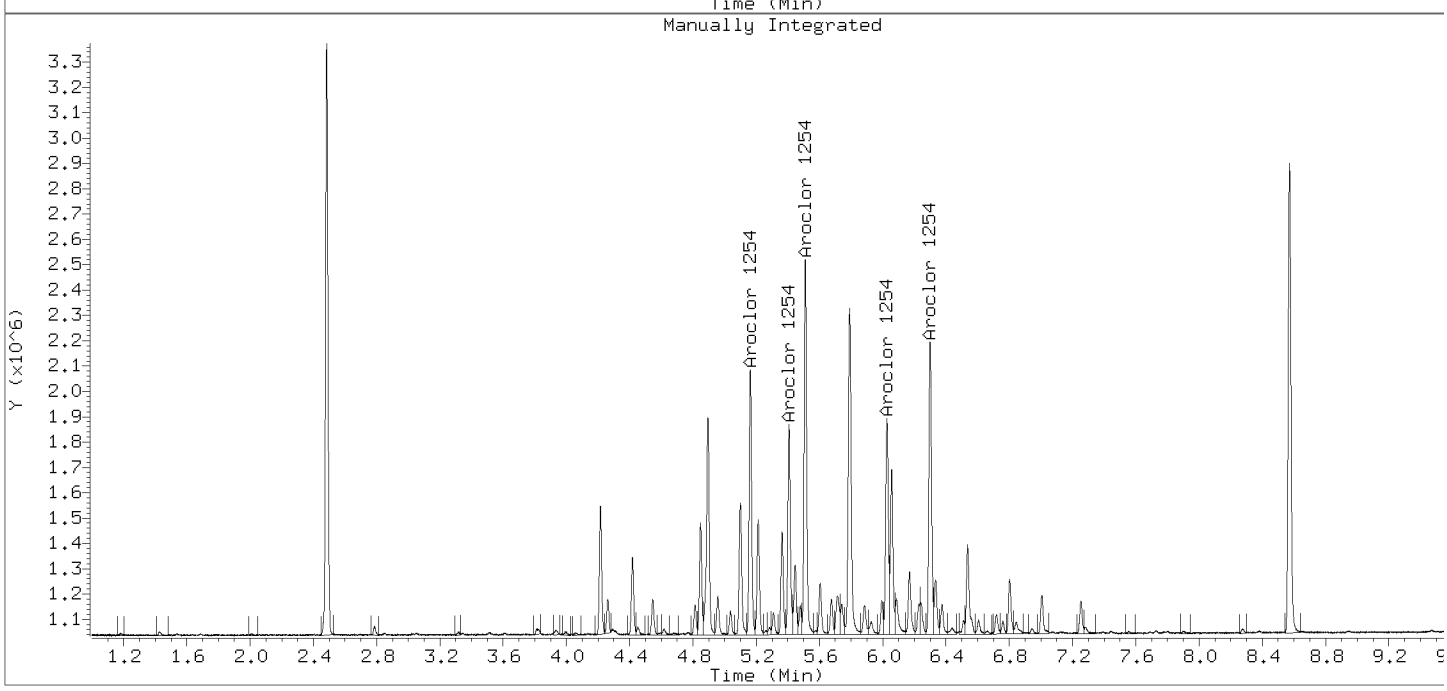
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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SW846-8082

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

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

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

Total unknown % area = 73

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SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:30

Client ID: 1254-CAL3C

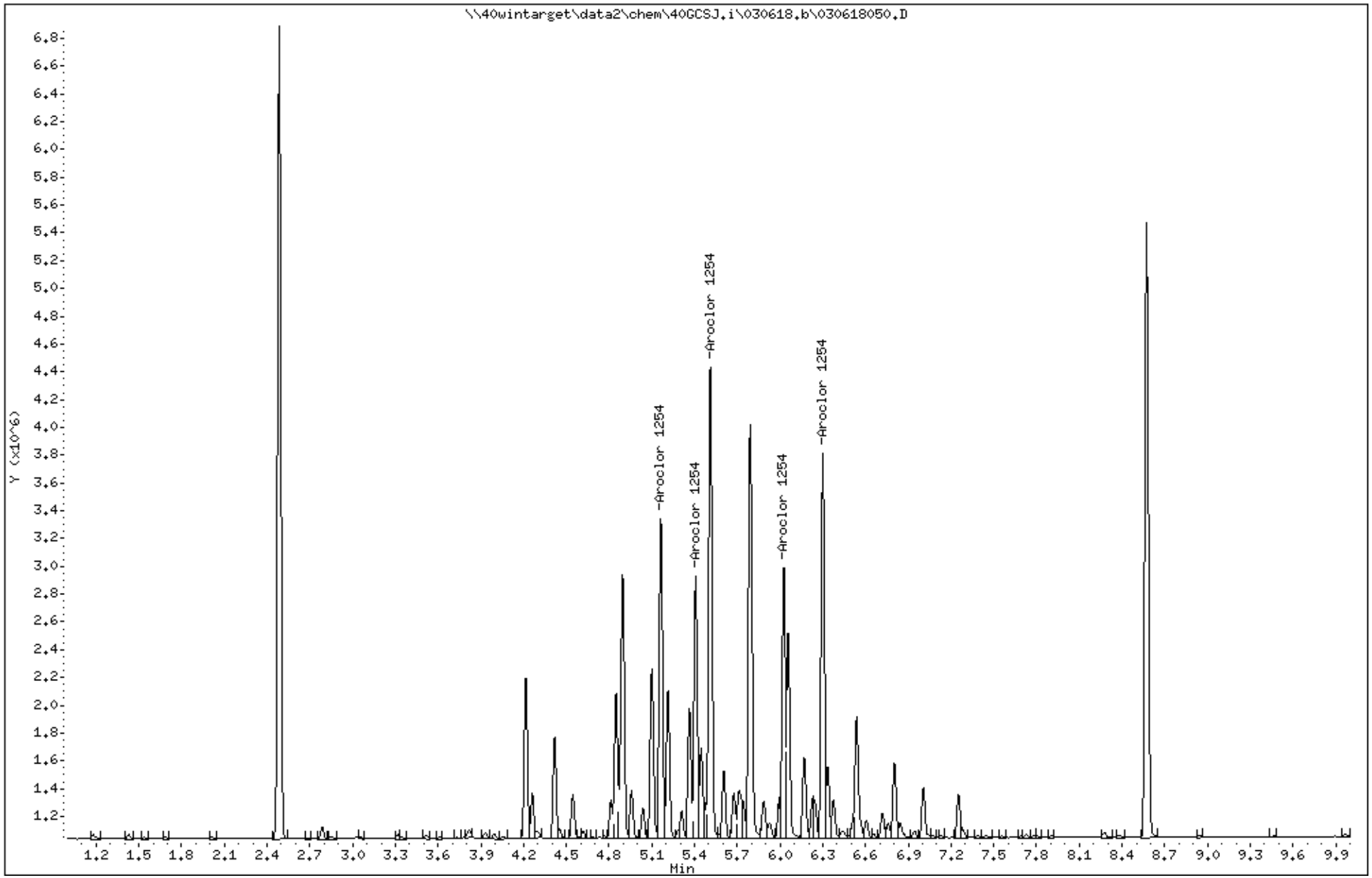
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

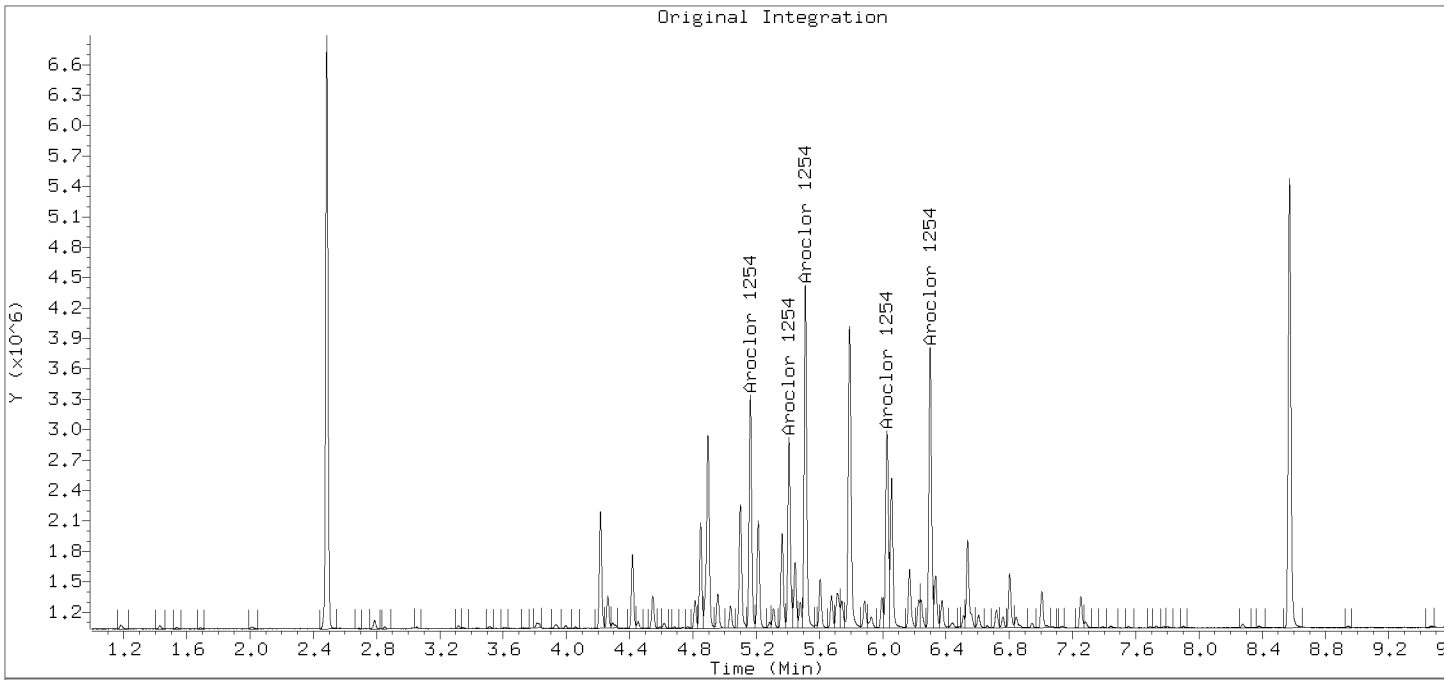
Operator: BLM

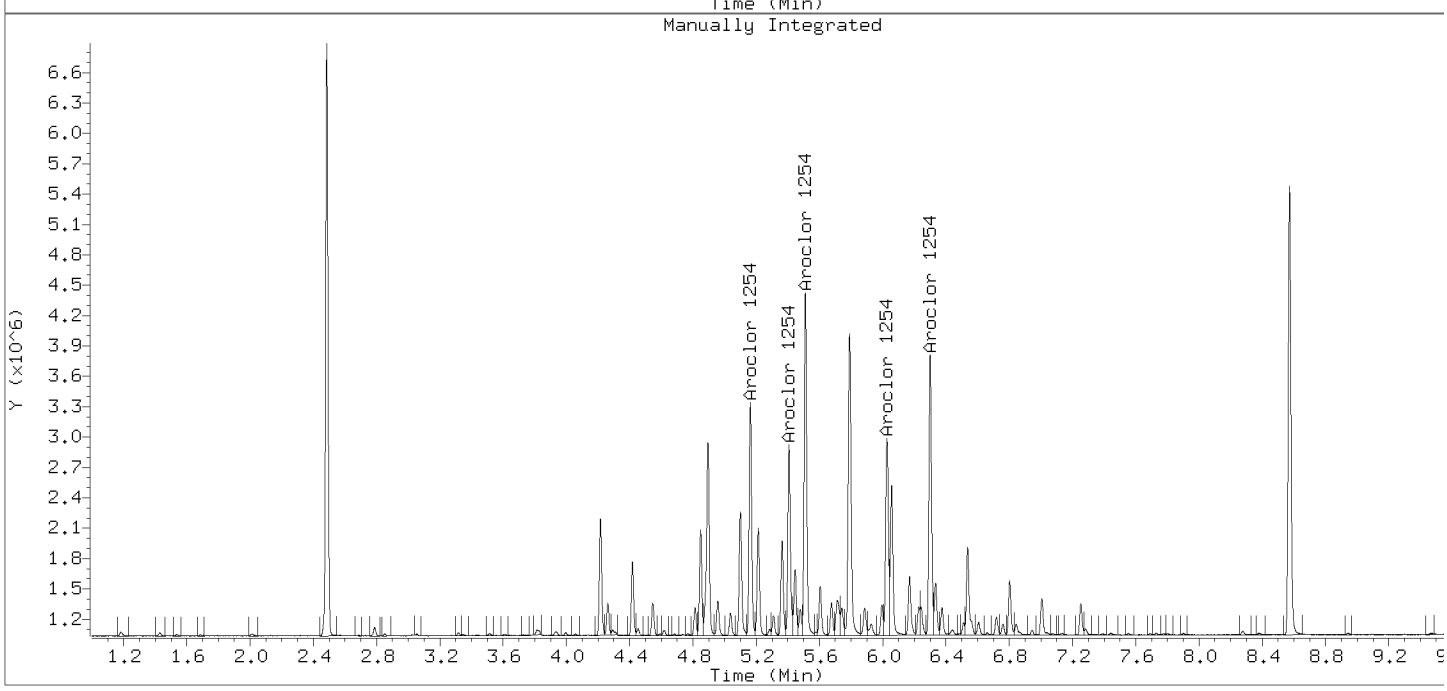
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:46

Client ID: 1254-CAL4C

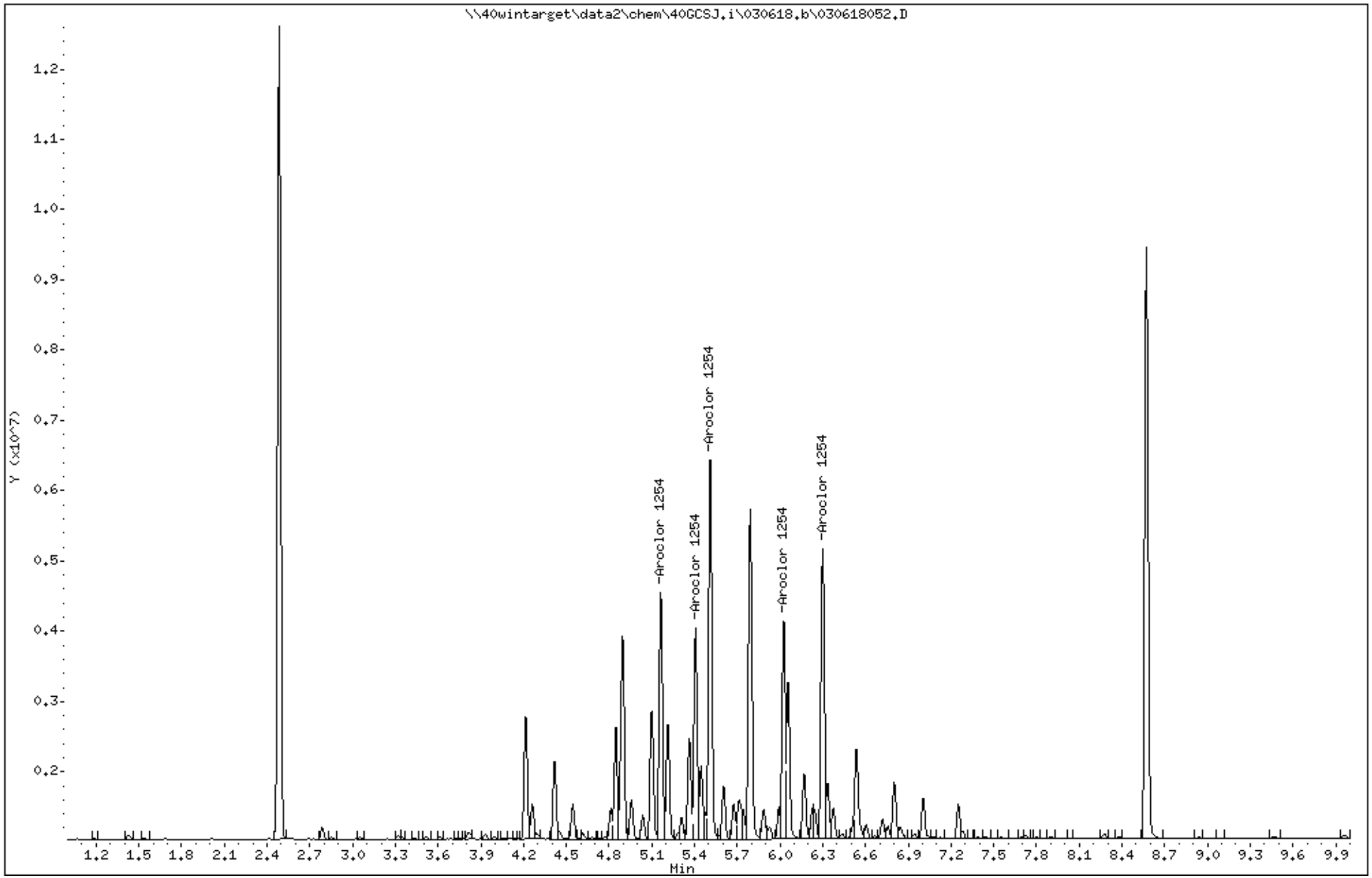
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

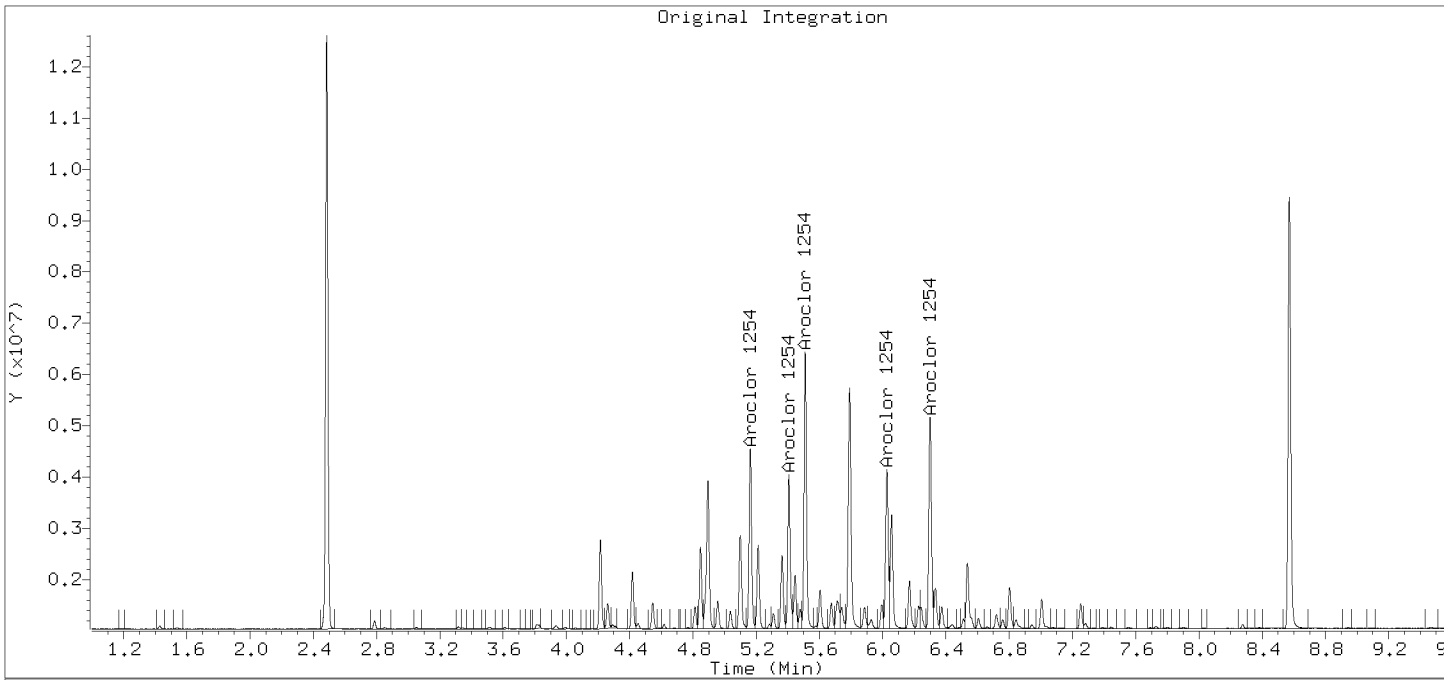
Operator: BLM

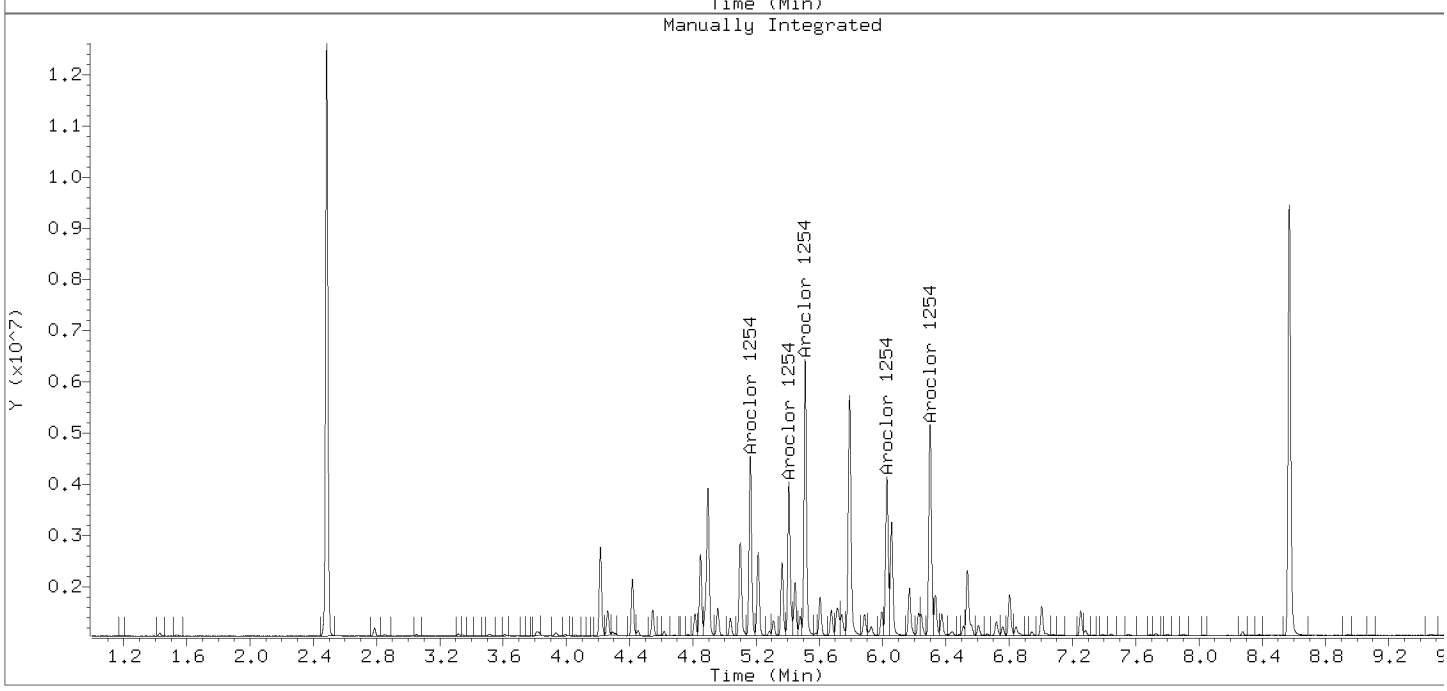
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

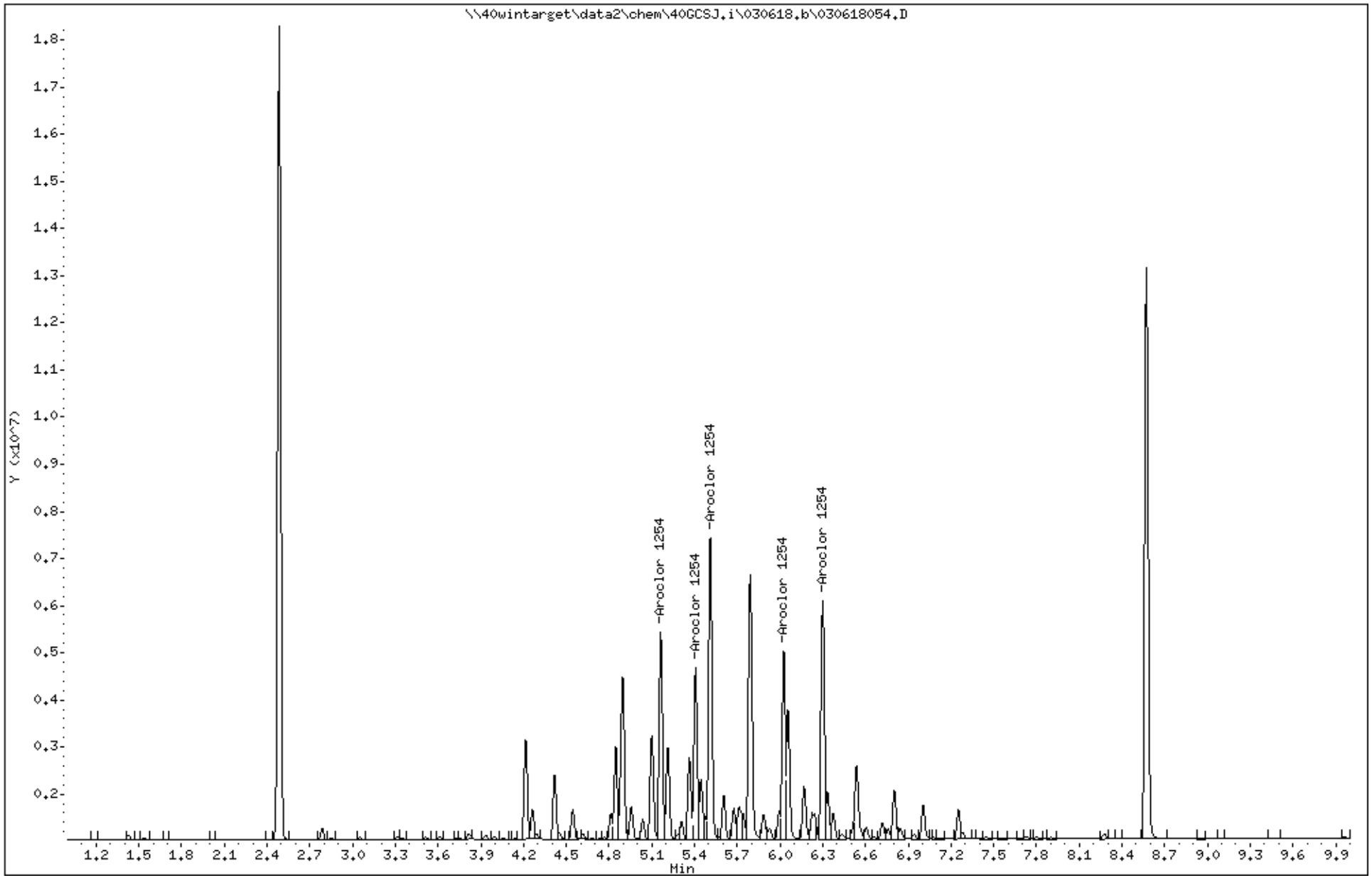
M - Compound response manually integrated.

Review Codes Legend

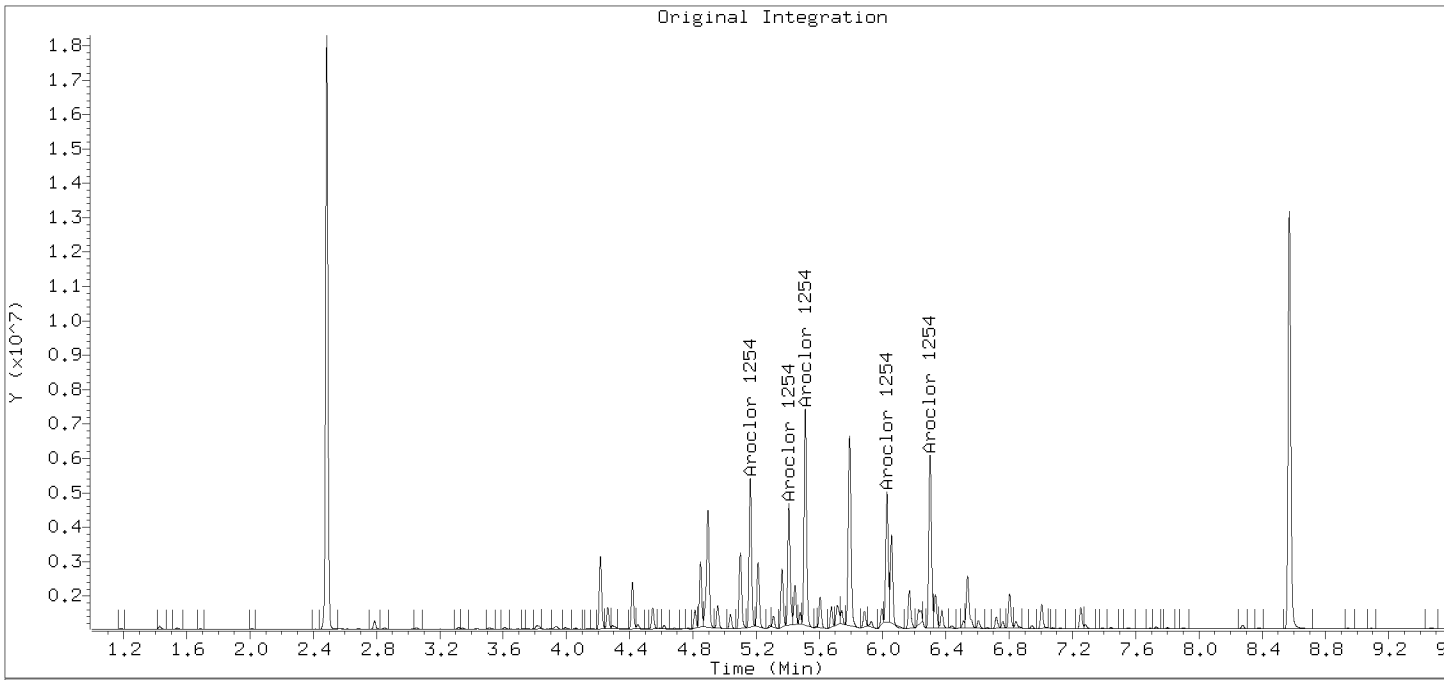
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

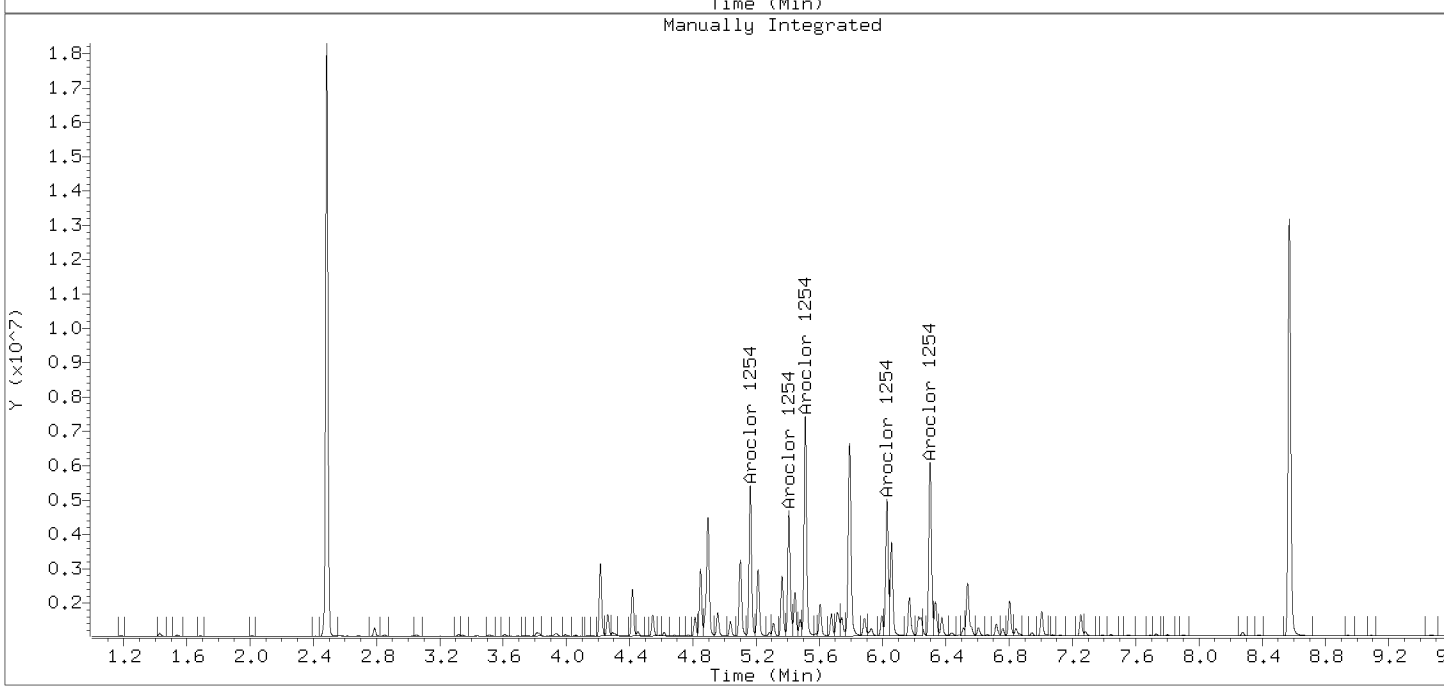
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Date : 06-MAR-2018 18:02
Client ID: 1254-CAL5C
Sample Info: 1254-CAL5C, 185556:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:34

Client ID: 1660-CAL1A

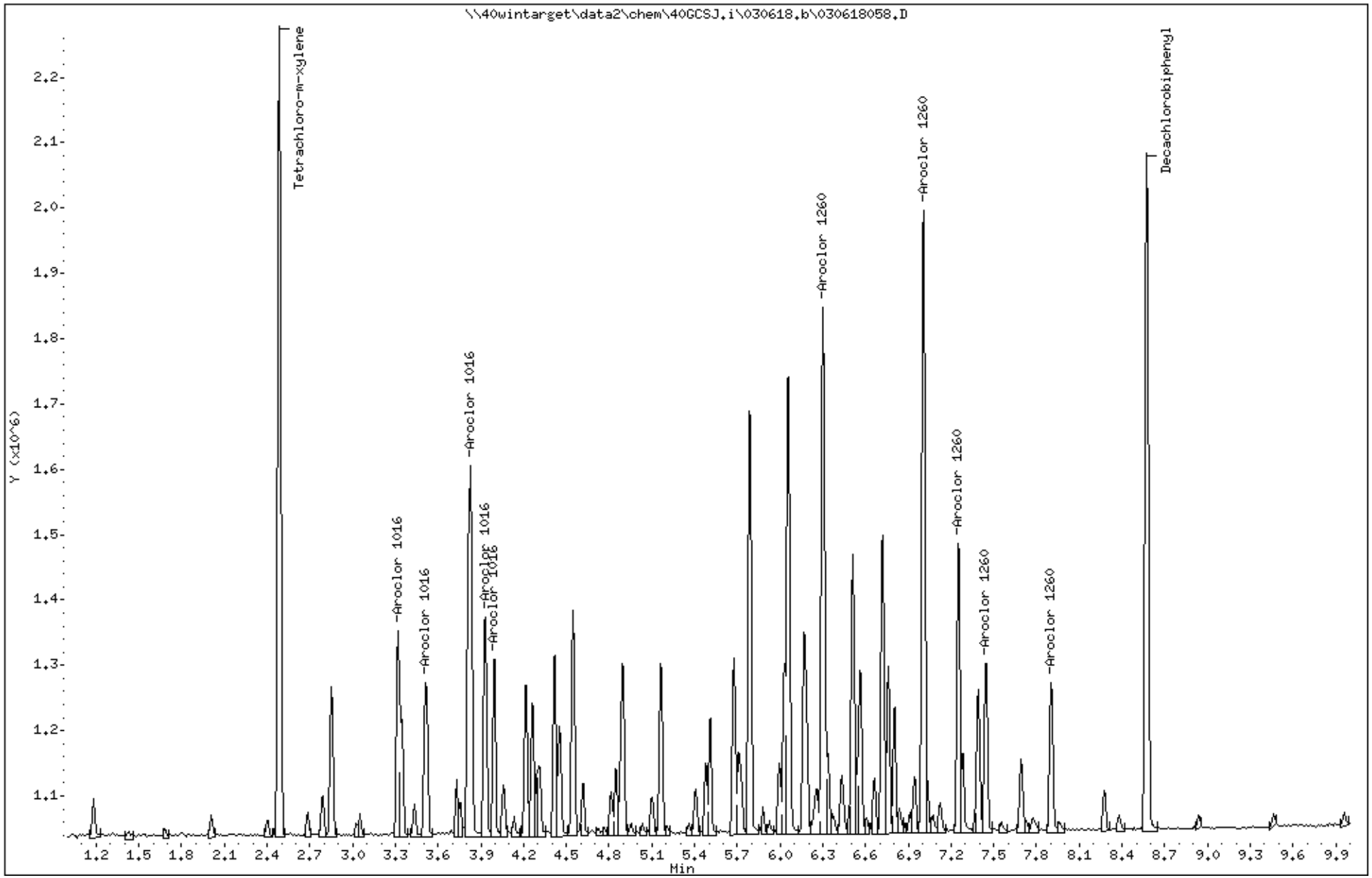
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

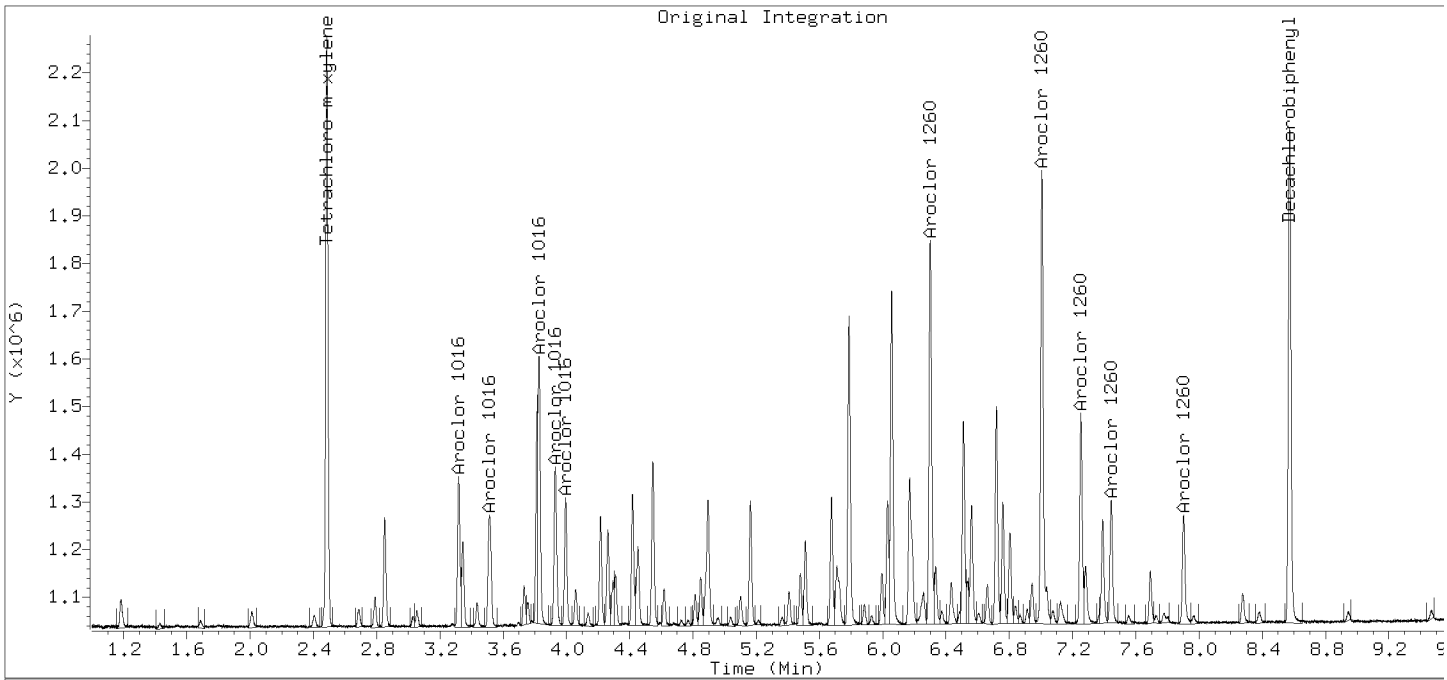
Operator: BLM

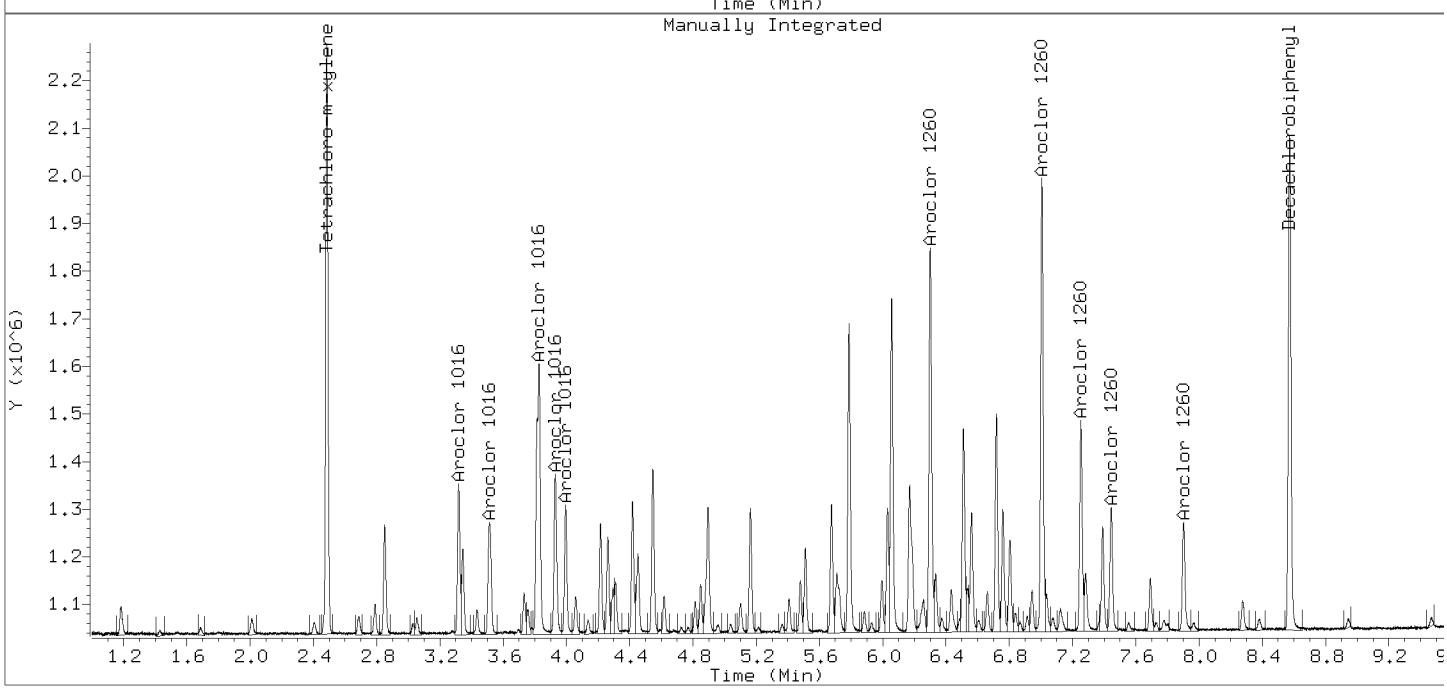
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:51

Client ID: 1660-CAL2A

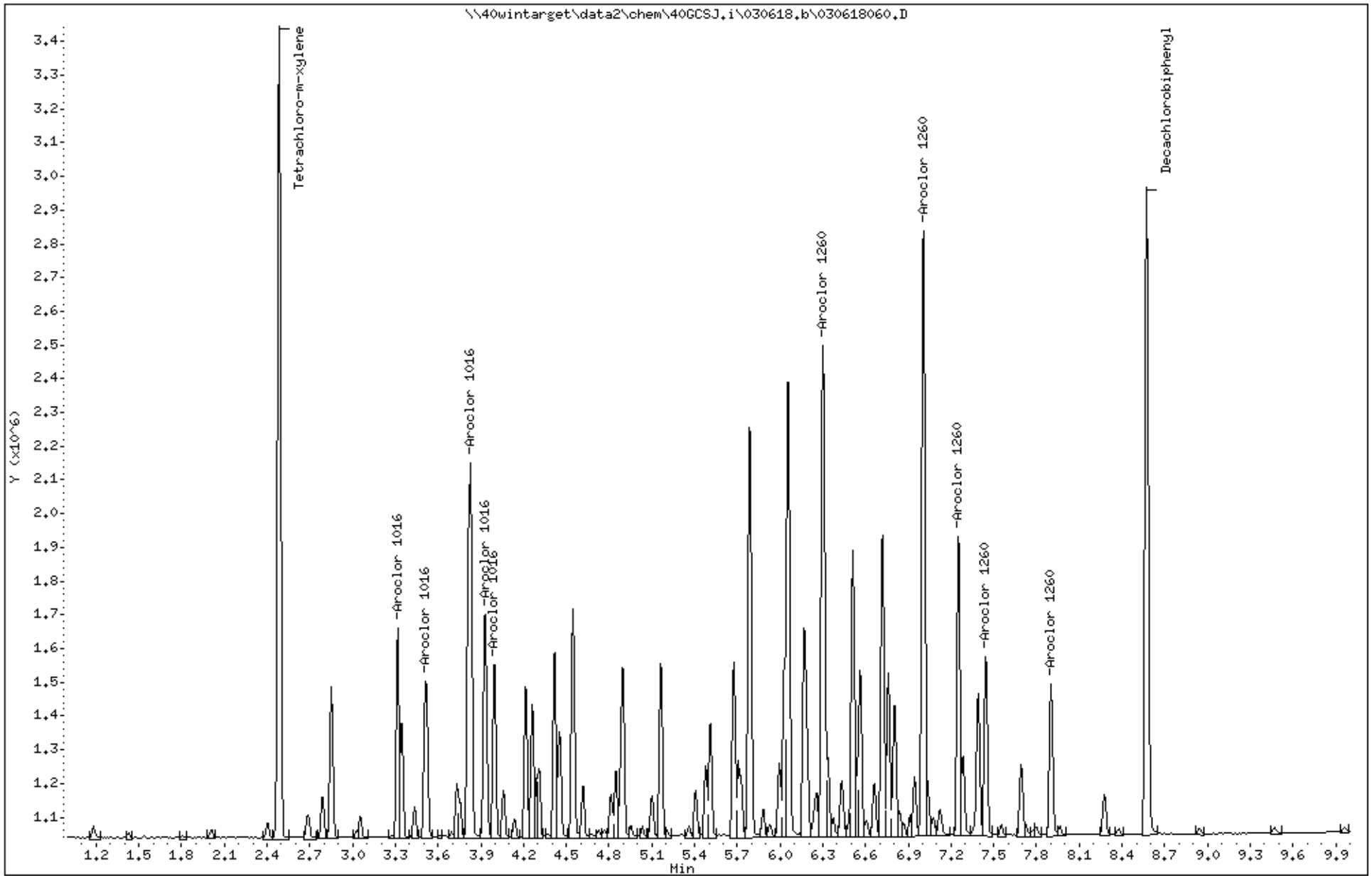
Instrument: 40GCSJ.i

Sample Info: 1660-CAL2A, 185558:1

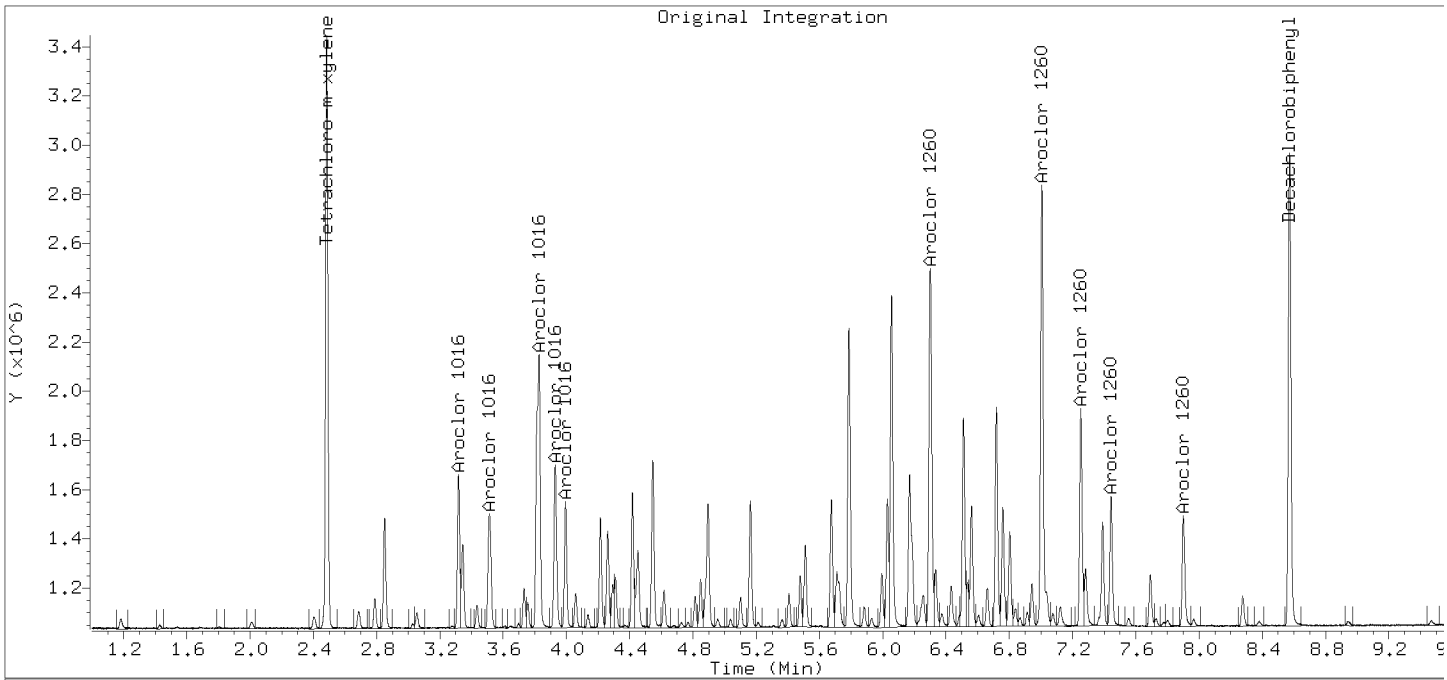
Operator: BLM

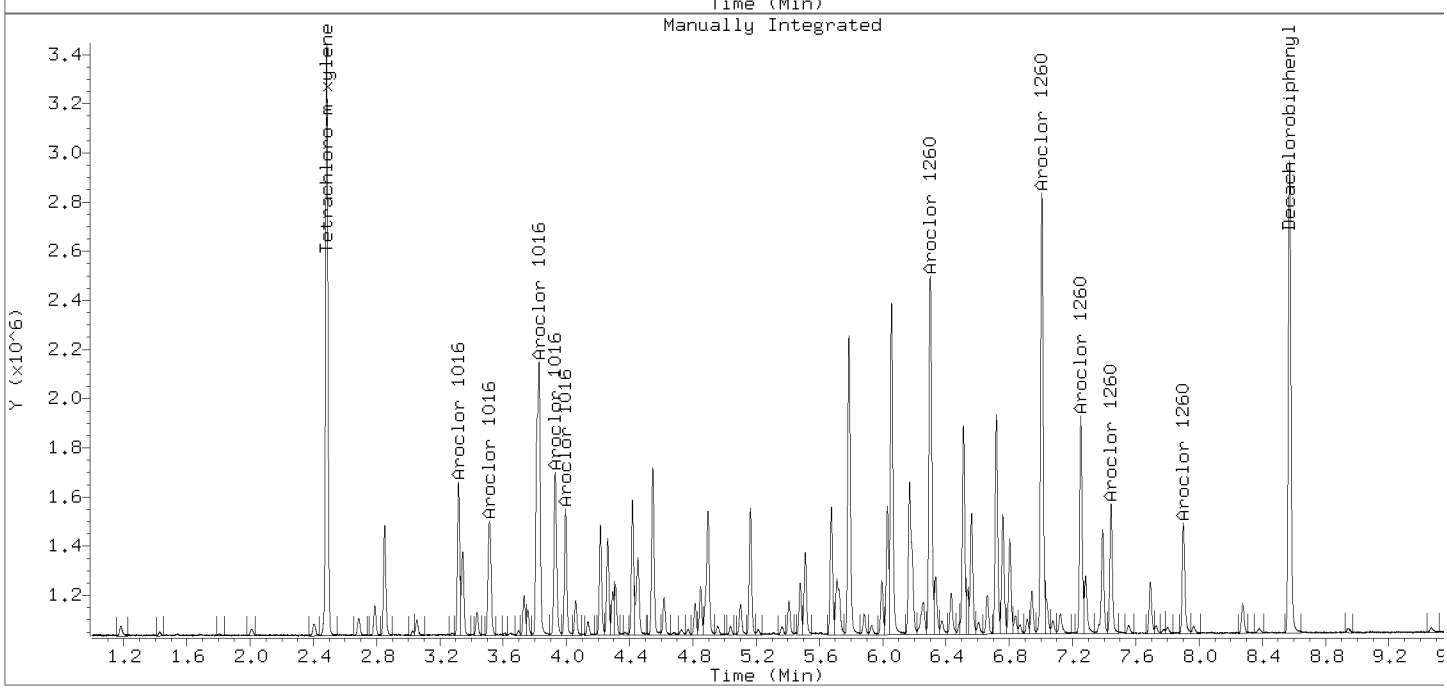
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

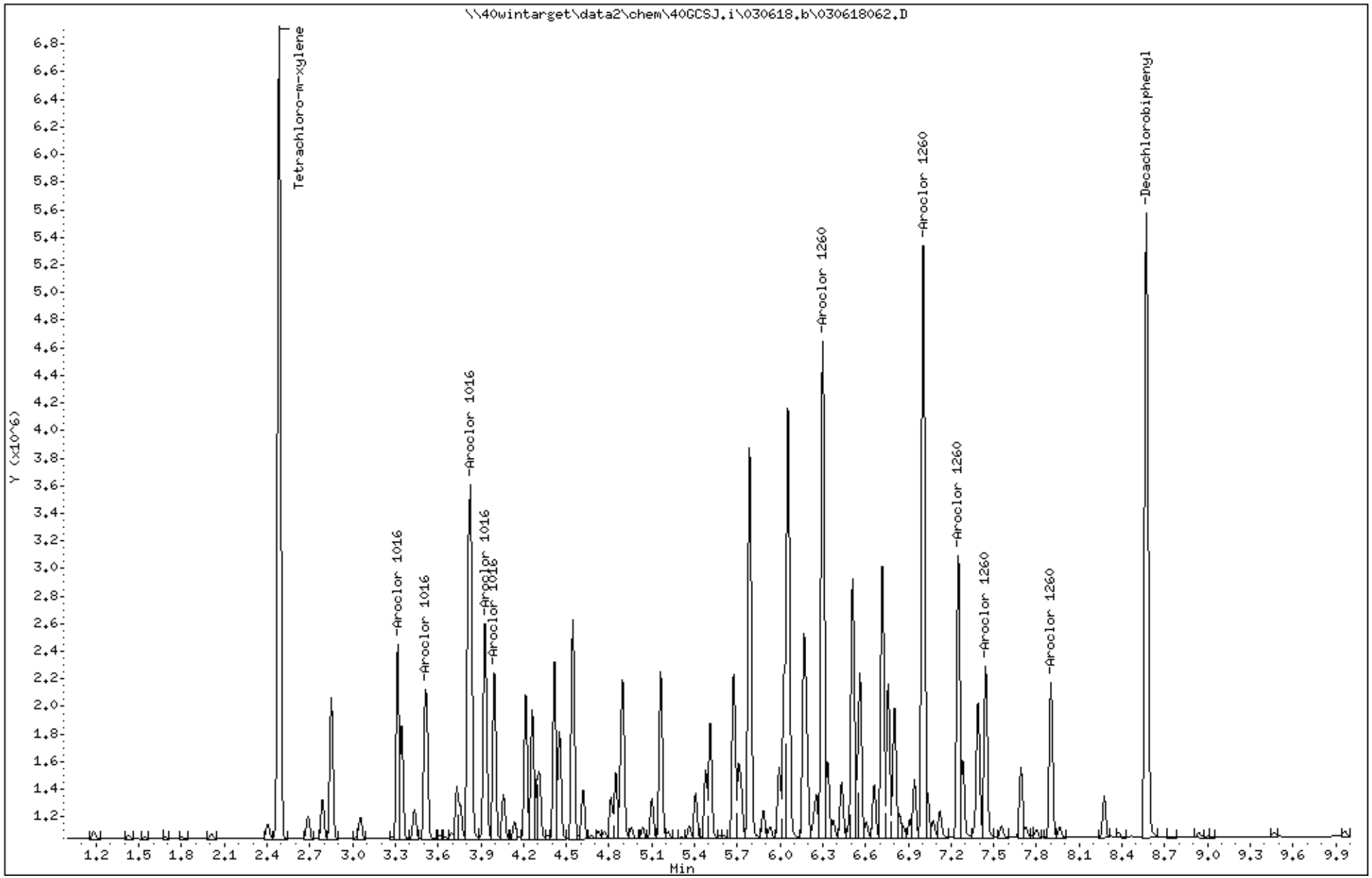
QC Flag Legend

Review Codes Legend

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

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

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



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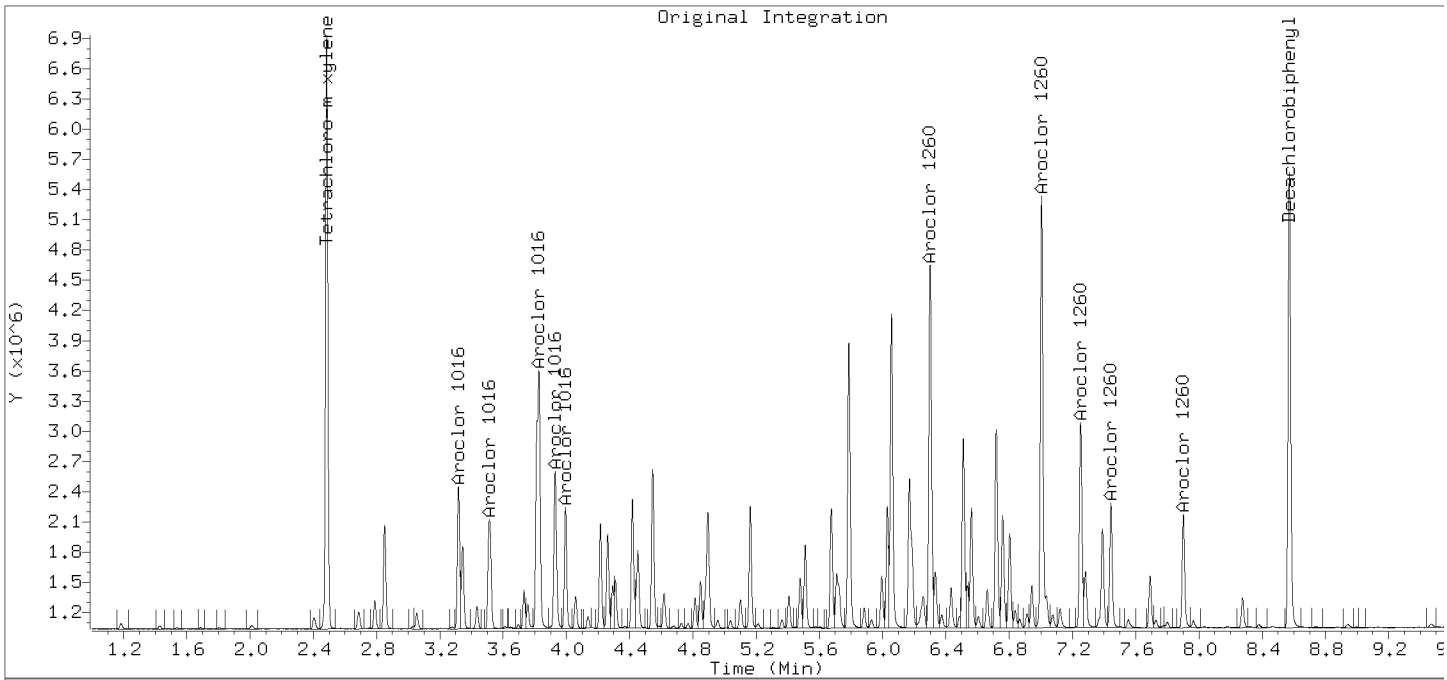
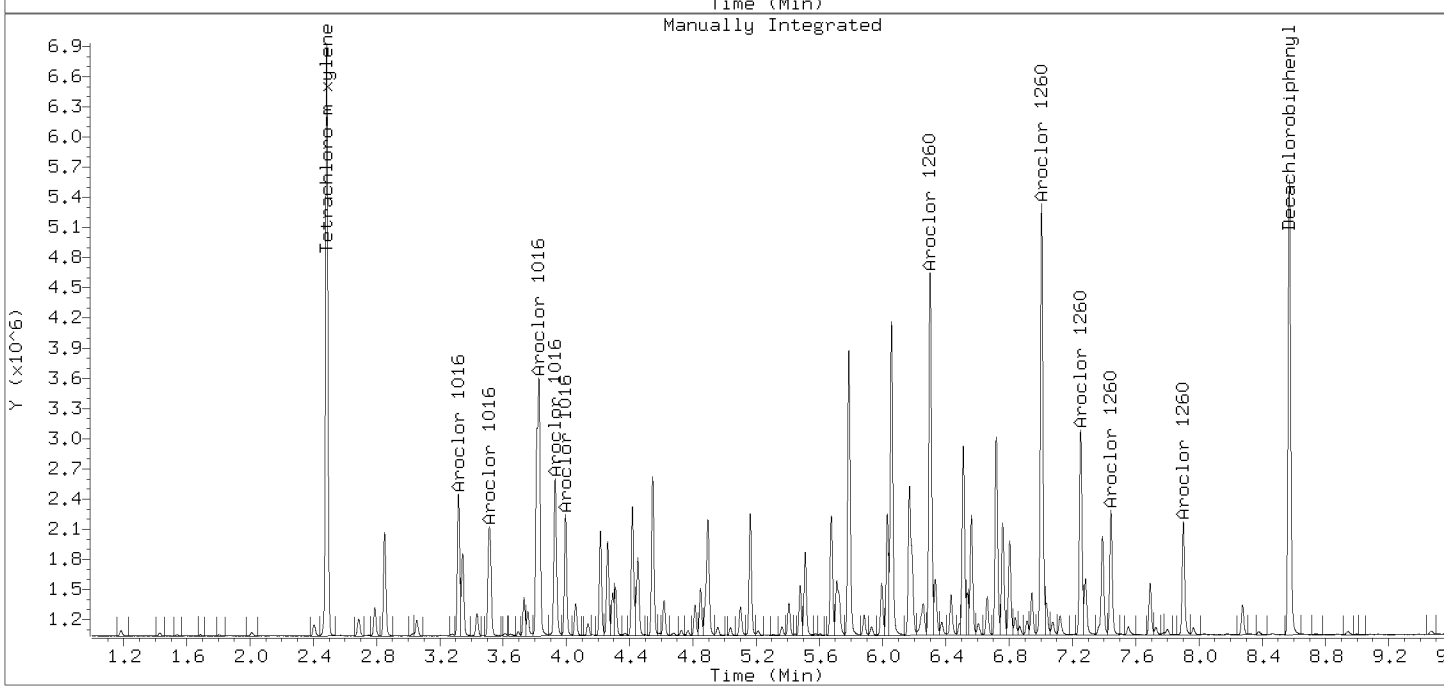
Injection Date: 06-MAR-2018 19:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CAL3A





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 19:23

Client ID: 1660-CAL4A

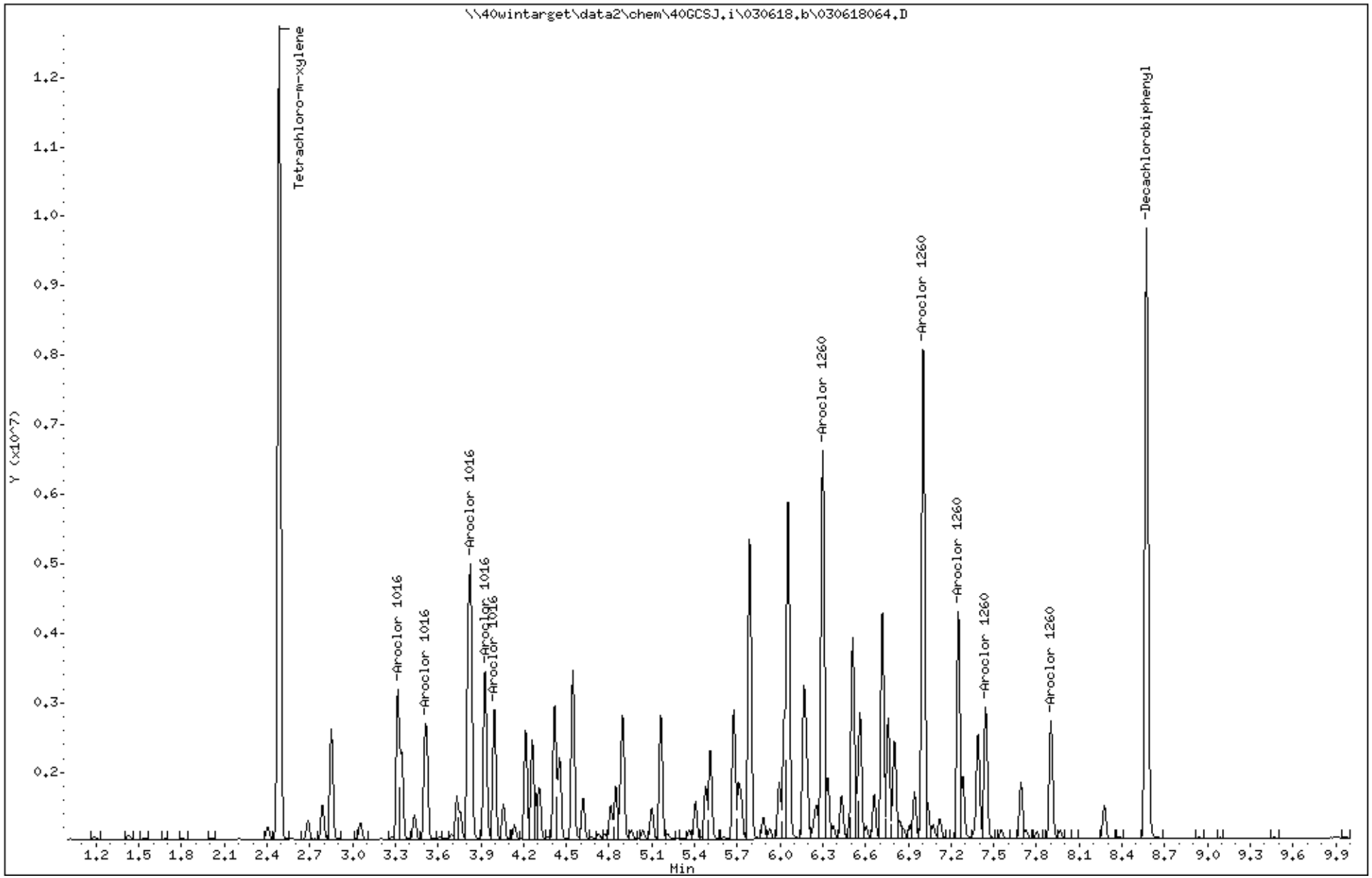
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

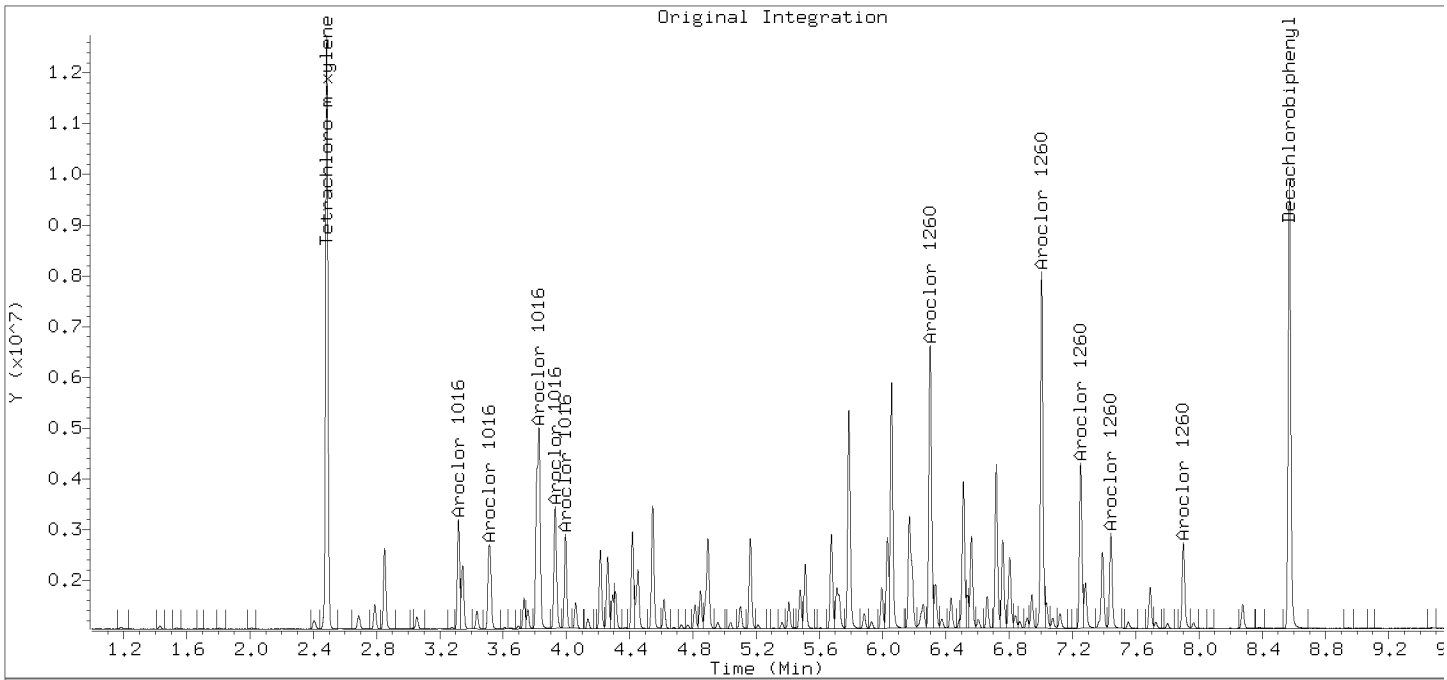
Operator: BLM

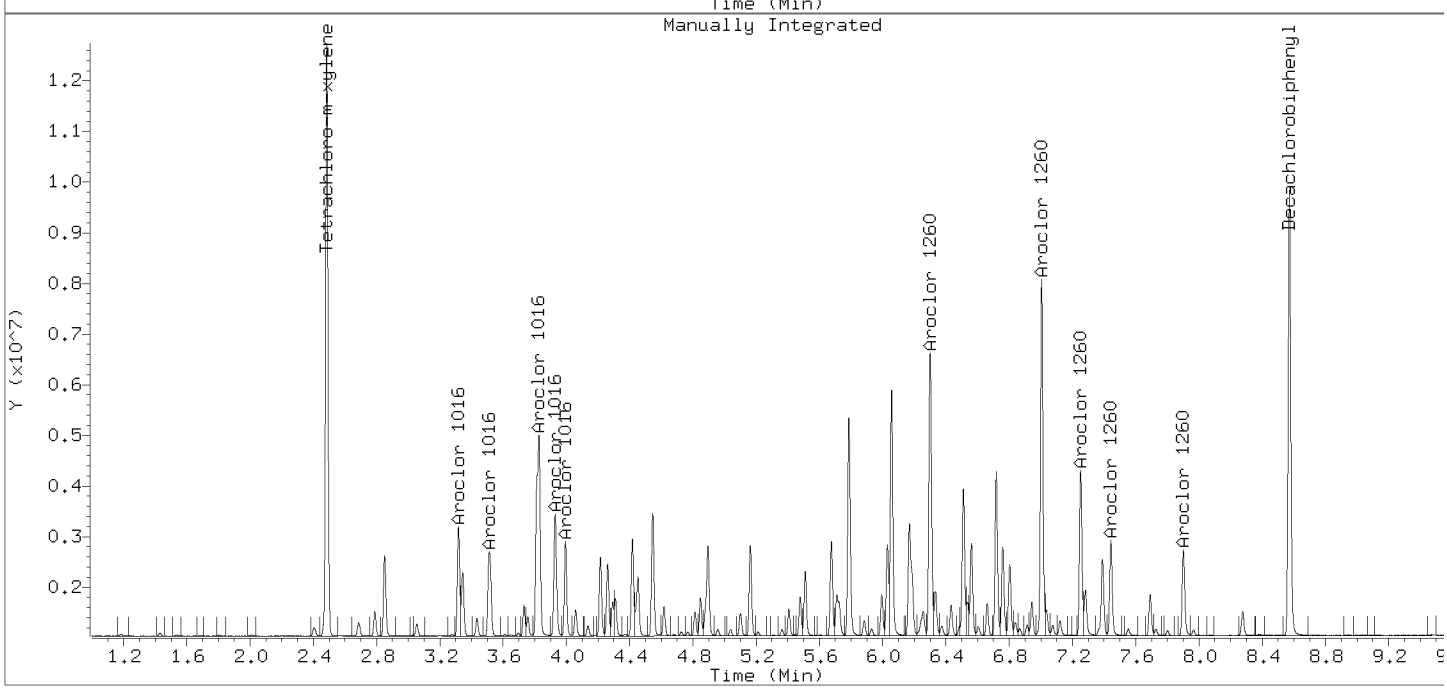
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

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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

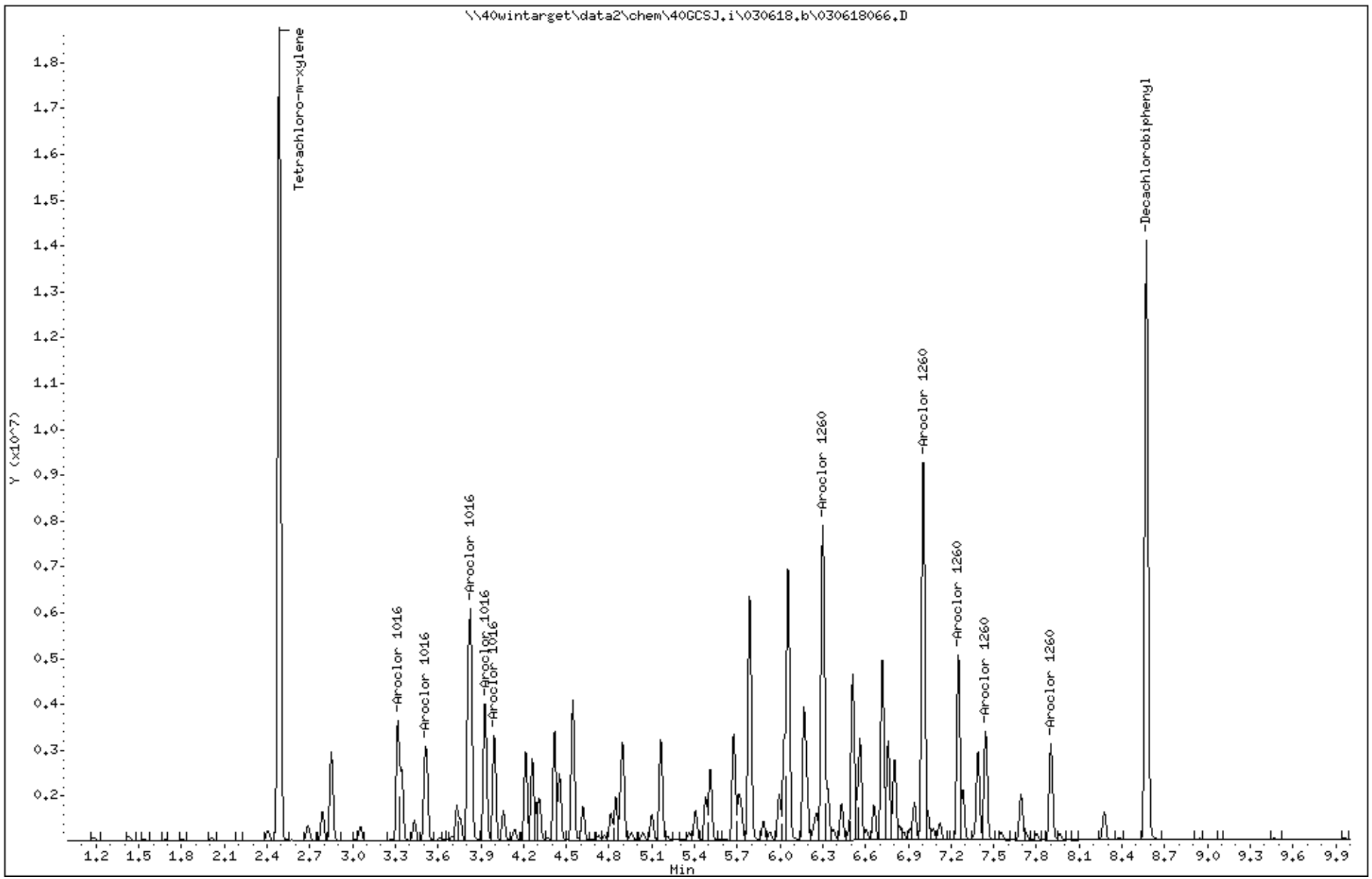
Instrument: 40GCSJ.i

Sample Info: 1660-CAL5A, 185561:1

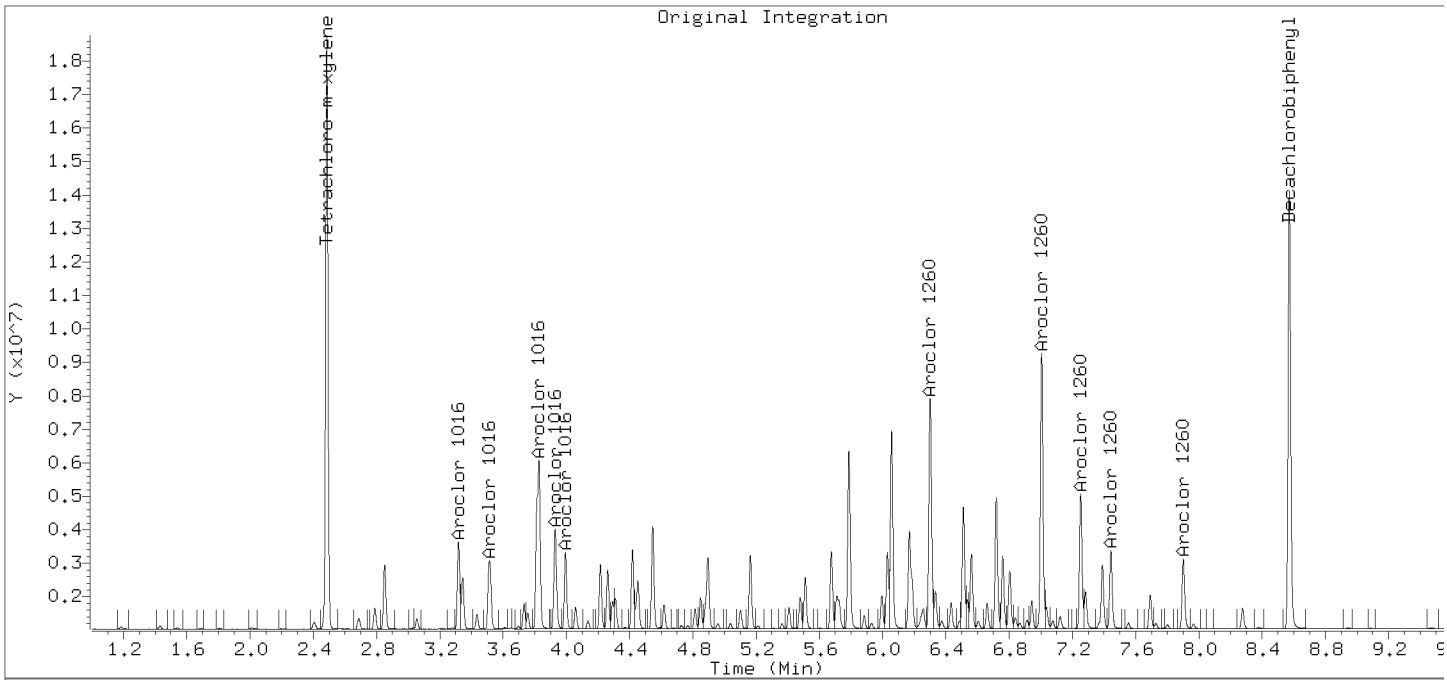
Operator: BLM

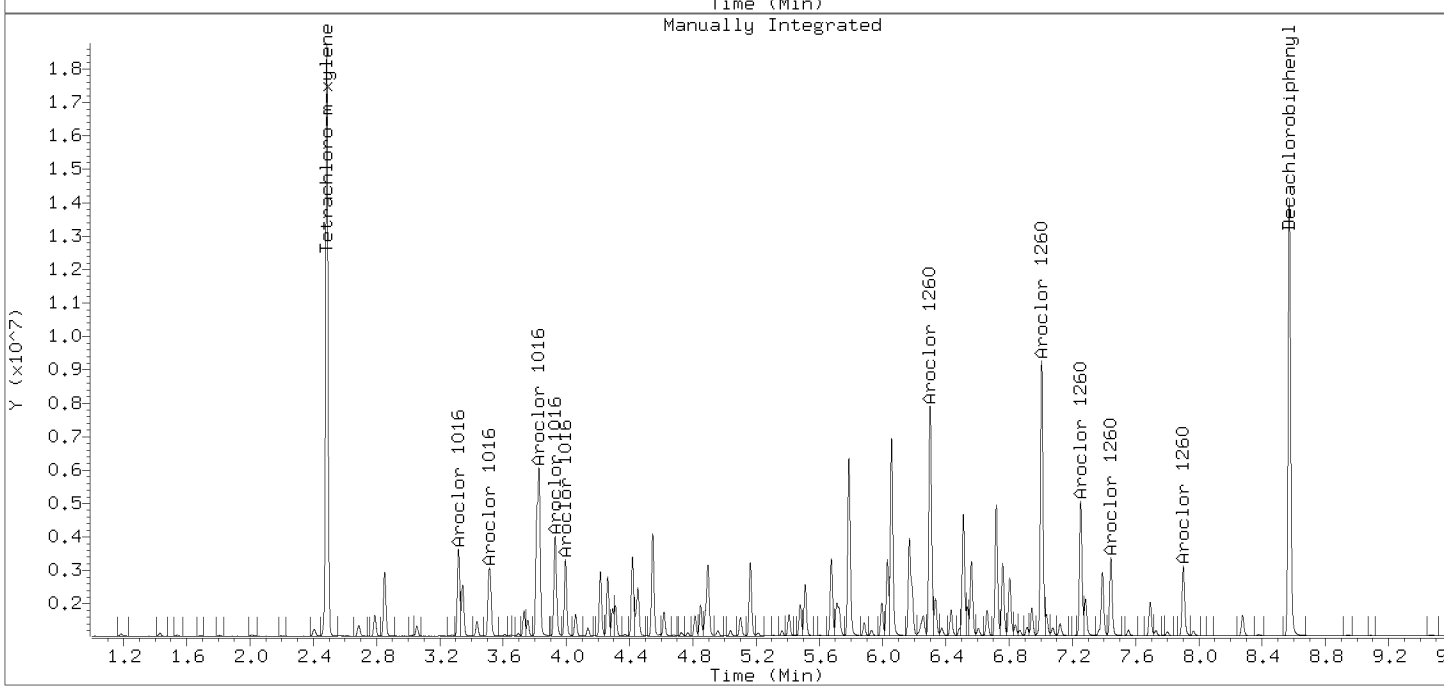
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

PCB Low Level Calibration % Difference Check

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

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

SAMPLE NO.

10757904ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40158010

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.: 40158010

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.: 40158010

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.: 40158010

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.: 40158010

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.

10920097CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/24/2018 Time: 13:10

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

Lab File ID: 042418.B\042418004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158010

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	3194414.00	3.6868
Aroclor 1016	2	Averaged	3.513	3.478	3.546	3099002.40	3202620.00	3.3436
Aroclor 1016	3	Averaged	3.825	3.792	3.86	8861786.20	9109236.00	2.7923
Aroclor 1016	4	Averaged	3.928	3.895	3.963	3780223.45	3905200.00	3.3061
Aroclor 1016	5	Averaged	3.994	3.96	4.028	2603349.30	2626562.00	0.8916
Aroclor 1260	1	Averaged	6.299	6.266	6.334	8862352.50	9161228.00	3.3724
Aroclor 1260	2	Averaged	7.003	6.972	7.04	10014373.3	10461510.0	4.4649
Aroclor 1260	3	Averaged	7.25	7.217	7.285	4779803.15	5008364.00	4.7818
Aroclor 1260	4	Averaged	7.442	7.409	7.477	2915110.60	3093650.00	6.1246
Aroclor 1260	5	Averaged	7.9	7.867	7.935	2638735.95	2755840.00	4.4379
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	116024120.	5.9001
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	126833200.	2.8696

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

SAMPLE NO.

10920098CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/24/2018 Time: 16:20

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

Lab File ID: 042418.B\042418016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158010

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	1048098.00	0.6570
Aroclor 1221	2	Averaged	2.407	2.373	2.441	547842.900	539644.000	-1.4966
Aroclor 1221	3	Averaged	2.687	2.654	2.722	1383336.70	1433726.00	3.6426
Aroclor 1221	4	Averaged	2.789	2.755	2.823	1105769.55	1110428.00	0.4213
Aroclor 1221	5	Averaged	2.85	2.817	2.885	3255397.65	3418556.00	5.0119
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	113648500.	3.7318
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	122669420.	-0.5075

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

SAMPLE NO.

10922651CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/24/2018 Time: 19:31

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

Lab File ID: 042418.B\042418028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158010

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.849	2.817	2.885	2500024.00	2764766.00	10.5896
Aroclor 1232	2	Averaged	3.511	3.479	3.547	1339782.00	1442290.00	7.6511
Aroclor 1232	3	Averaged	3.825	3.793	3.861	3749726.00	4180460.00	11.4871
Aroclor 1232	4	Averaged	3.927	3.895	3.963	1606492.00	1782242.00	10.9400
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1168744.00	7.0400
Decachlorobiphenyl (S)		Averaged	8.568	8.537	8.605	109559990.	113081540.	3.2143
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	122502540.	-0.6428

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

SAMPLE NO.

10922650CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/24/2018 Time: 22:09

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

Lab File ID: 042418.B\042418038.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158010

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	2734754.00	7.9566
Aroclor 1242	2	Averaged	3.512	3.479	3.547	2520033.45	2690620.00	6.7692
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7860462.00	10.4547
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3335756.00	9.6735
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2232070.00	9.0013
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	117916860.	7.6277
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	125772700.	2.0095

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

SAMPLE NO.

10924579CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/25/2018 Time: 14:10

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

Lab File ID: 042518.B\042518004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158010

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.26	4.227	4.295	2342973.85	2530596.00	8.0079
Aroclor 1248	2	Averaged	4.544	4.512	4.58	4150305.95	4398666.00	5.9841
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2206704.00	8.7003
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5457508.00	8.3388
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3885012.00	8.2614
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	117438800.	7.1913
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	125746760.	1.9884

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

SAMPLE NO.

10924570CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/25/2018 Time: 17:20

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

Lab File ID: 042518.B\042518016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40158010

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.161	5.128	5.196	5235247.45	5620066.00	7.3505
Aroclor 1254	2	Averaged	5.405	5.374	5.442	4301054.45	4664408.00	8.4480
Aroclor 1254	3	Averaged	5.509	5.476	5.544	7766063.85	8393614.00	8.0807
Aroclor 1254	4	Averaged	6.026	5.993	6.061	4869683.55	5331866.00	9.4910
Aroclor 1254	5	Averaged	6.297	6.265	6.333	6507103.75	7144636.00	9.7975
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	119497680.	9.0705
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	127691700.	3.5659

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D

Date : 06-MAR-2018 20:11

Client ID: 1221-ICV

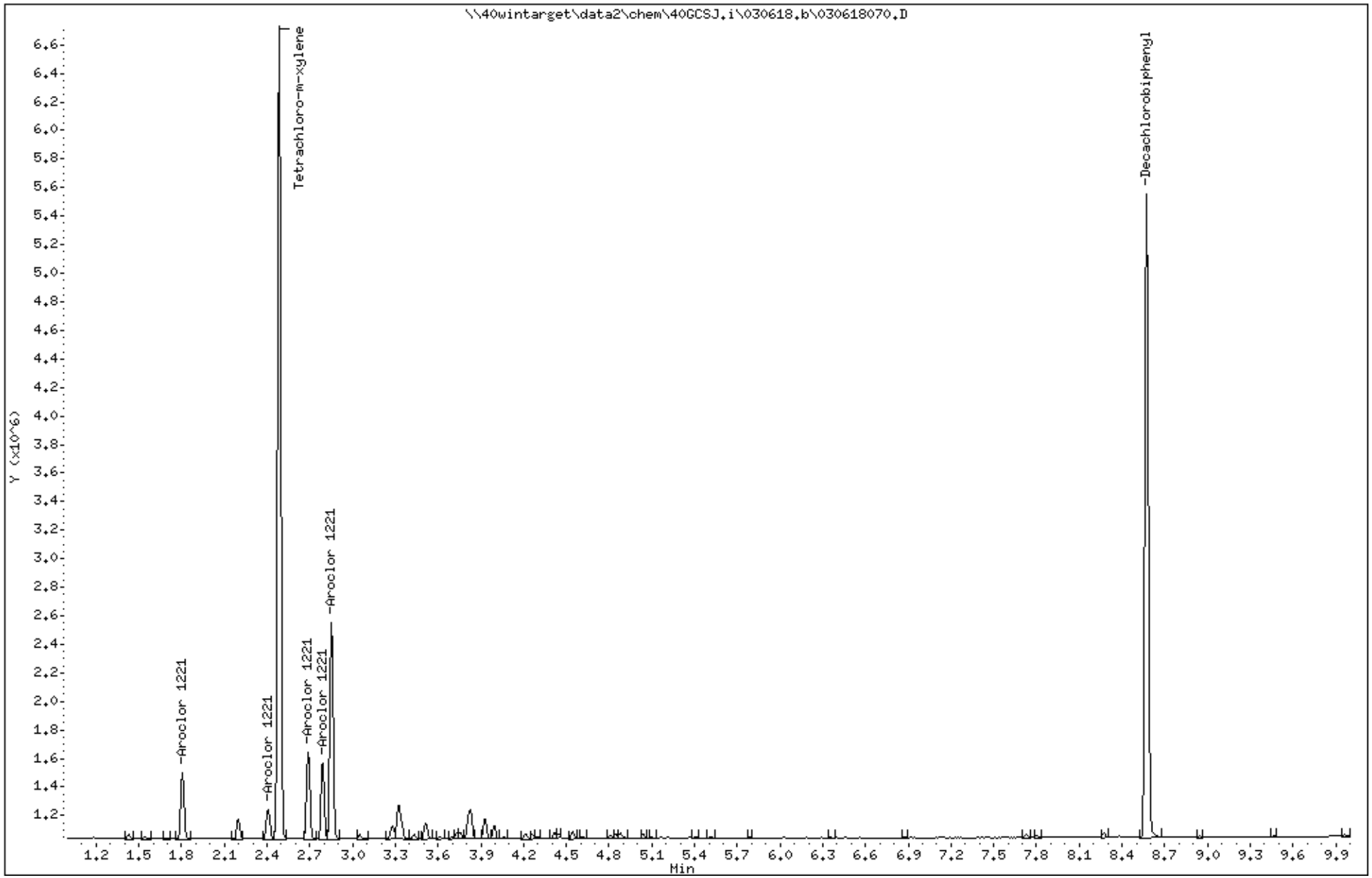
Instrument: 40GCSJ.i

Sample Info: 1221-ICV, 188142:1

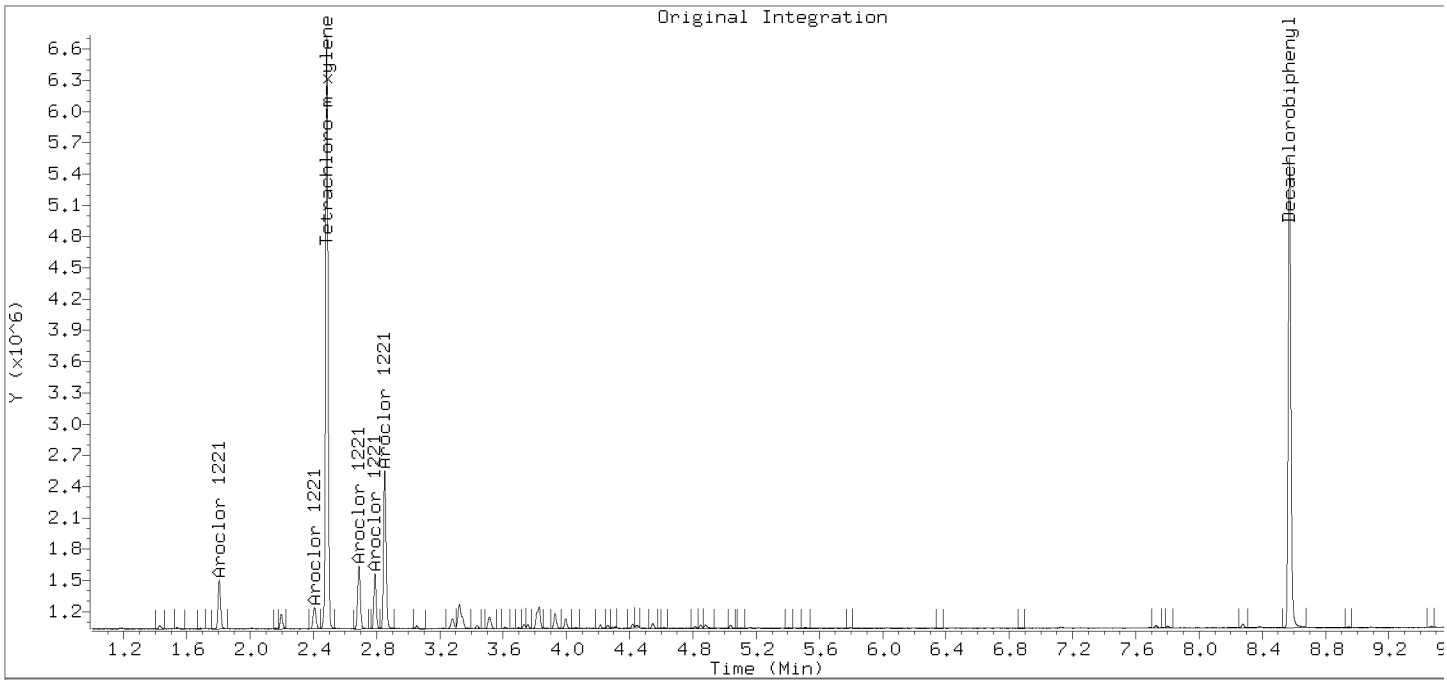
Operator: BLM

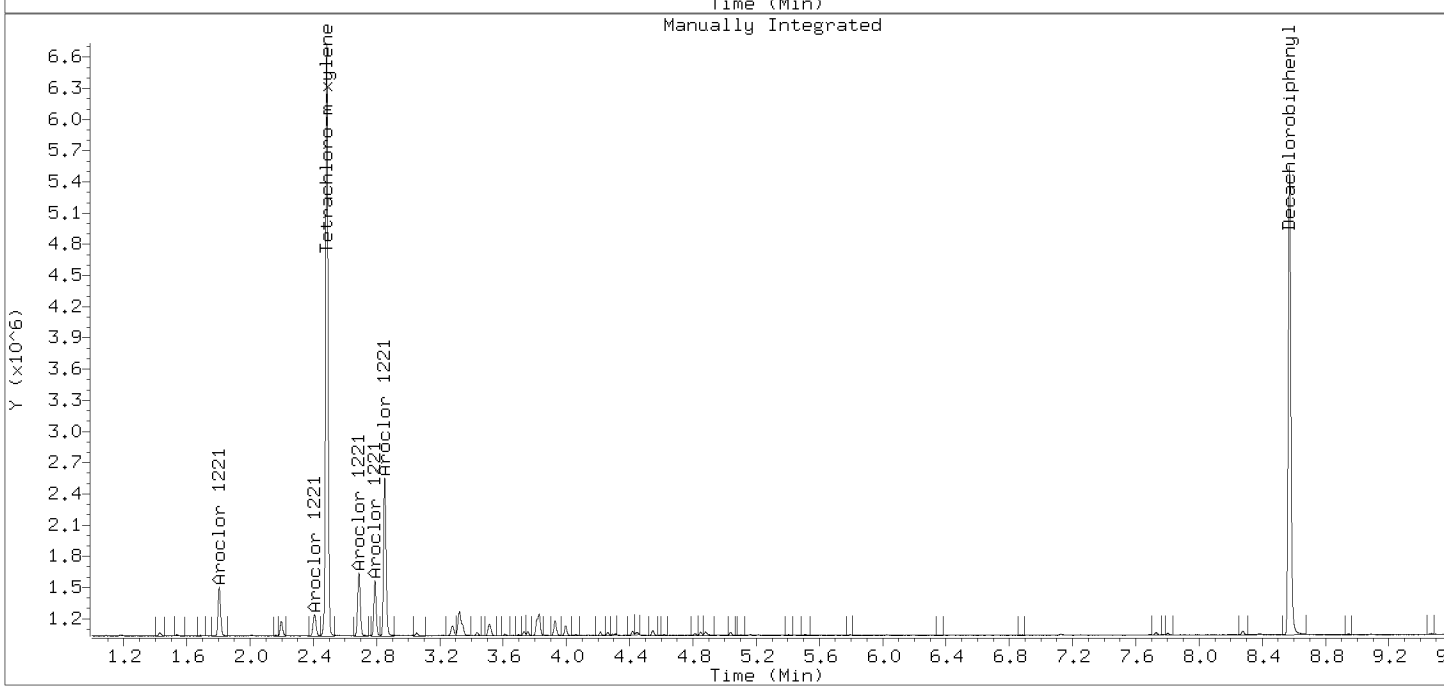
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

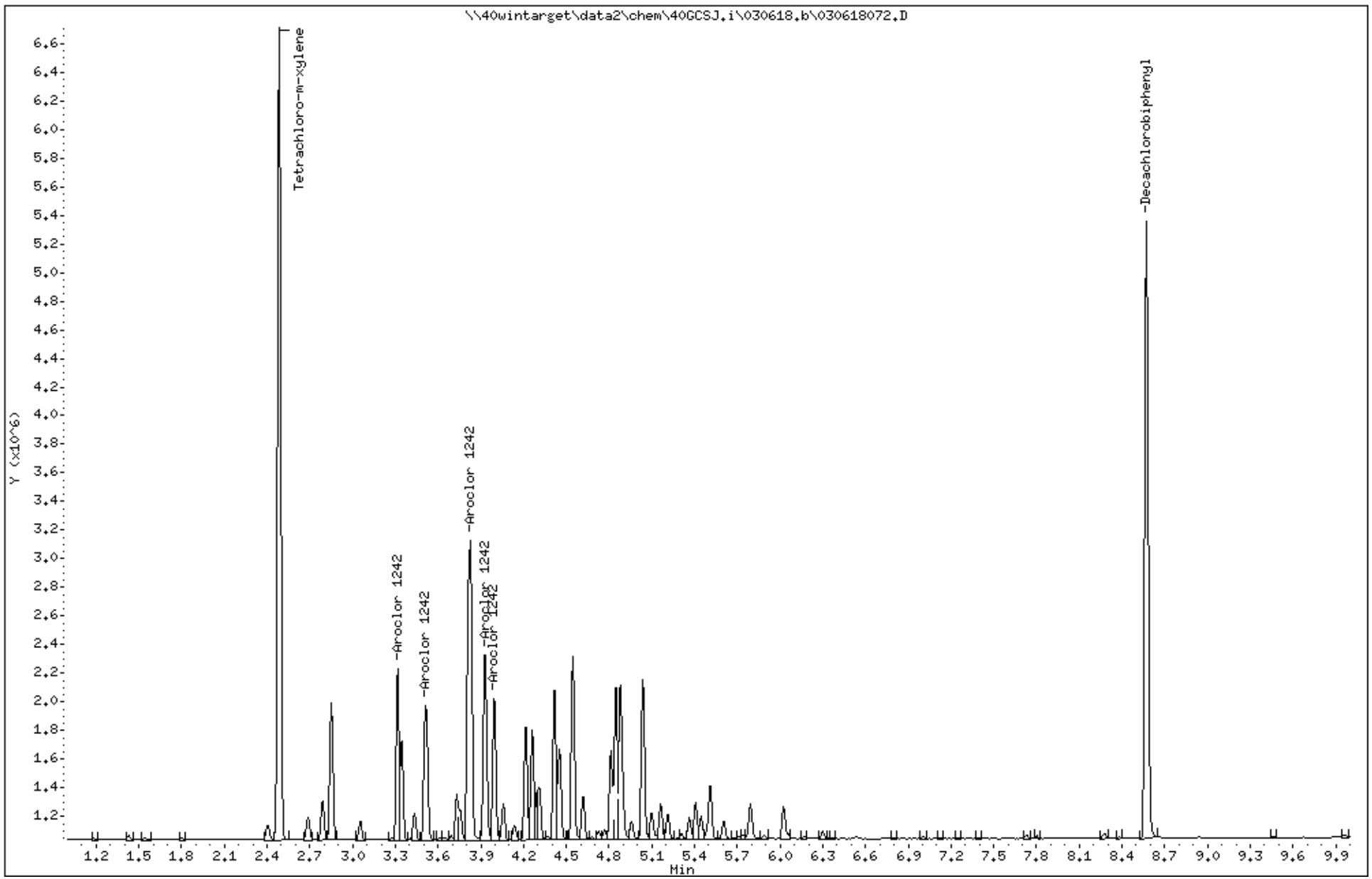
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

Instrument: 40GCSJ.i

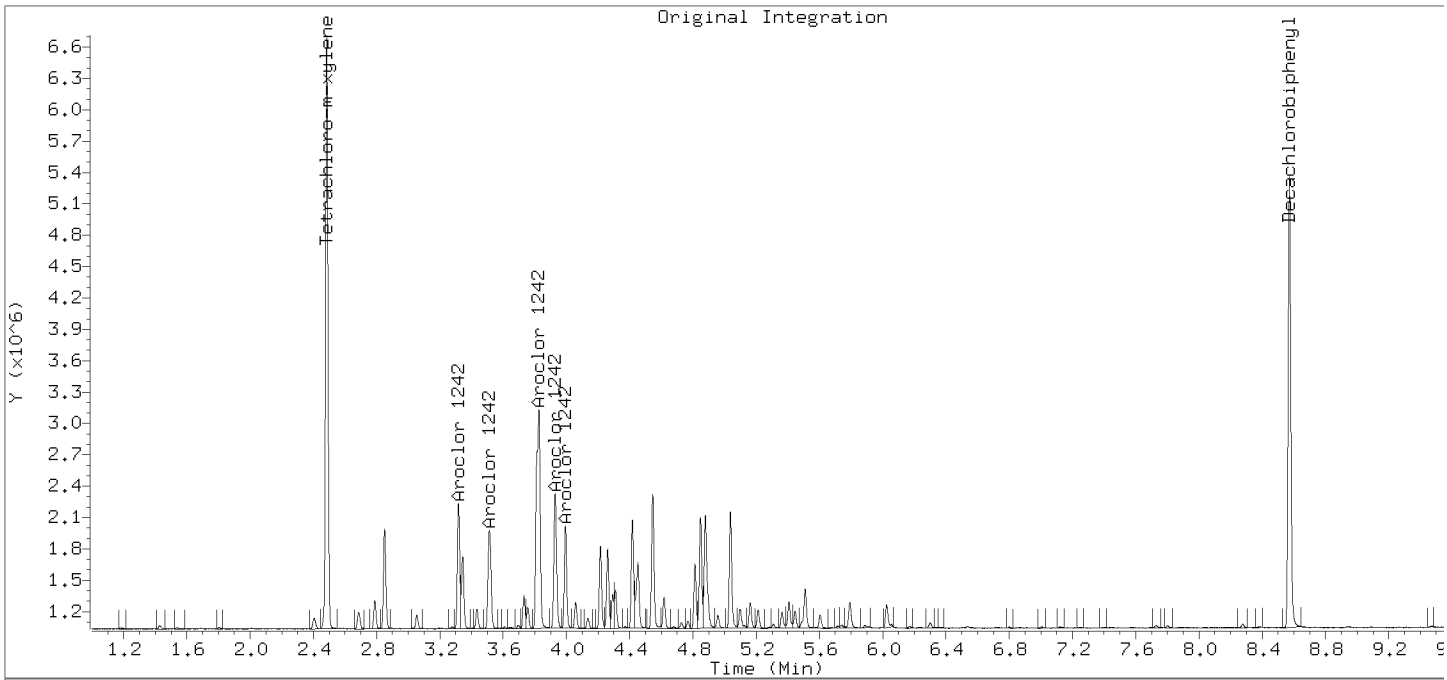
Operator: BLM

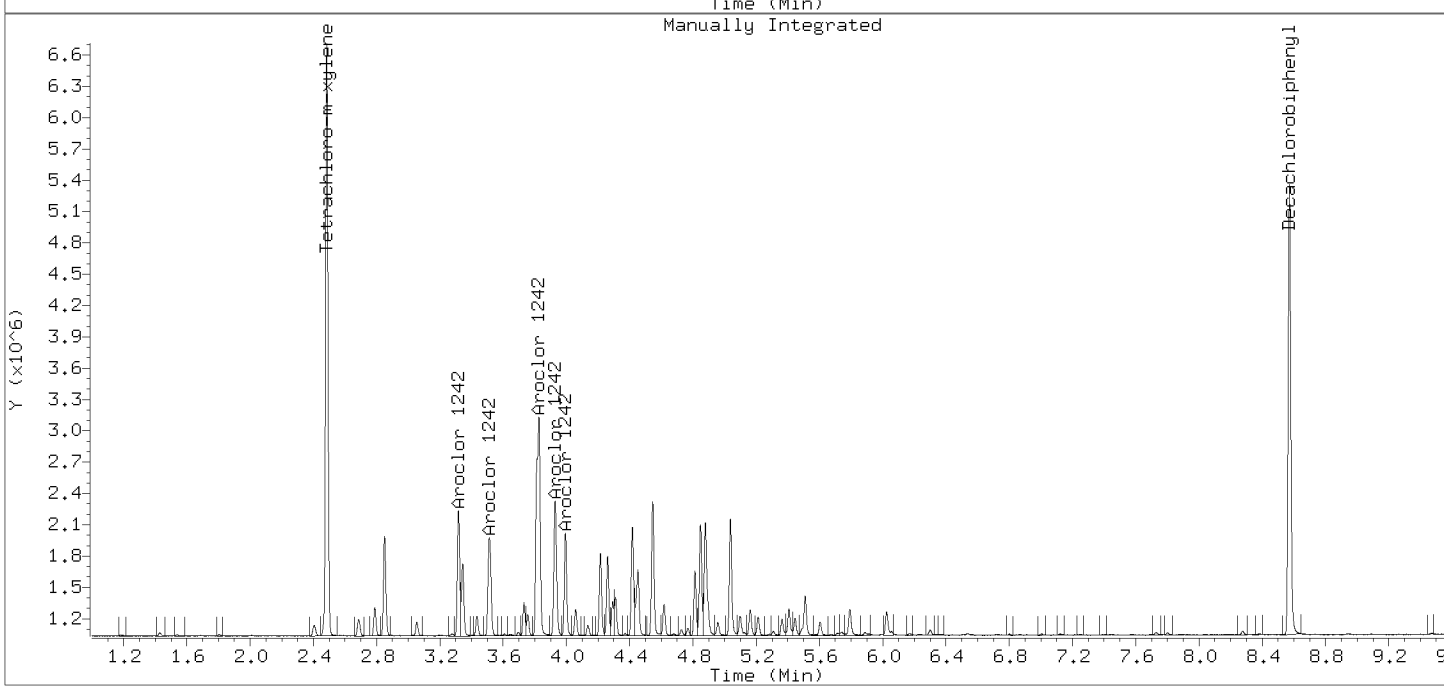
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 20:44

Client ID: 1248-ICV

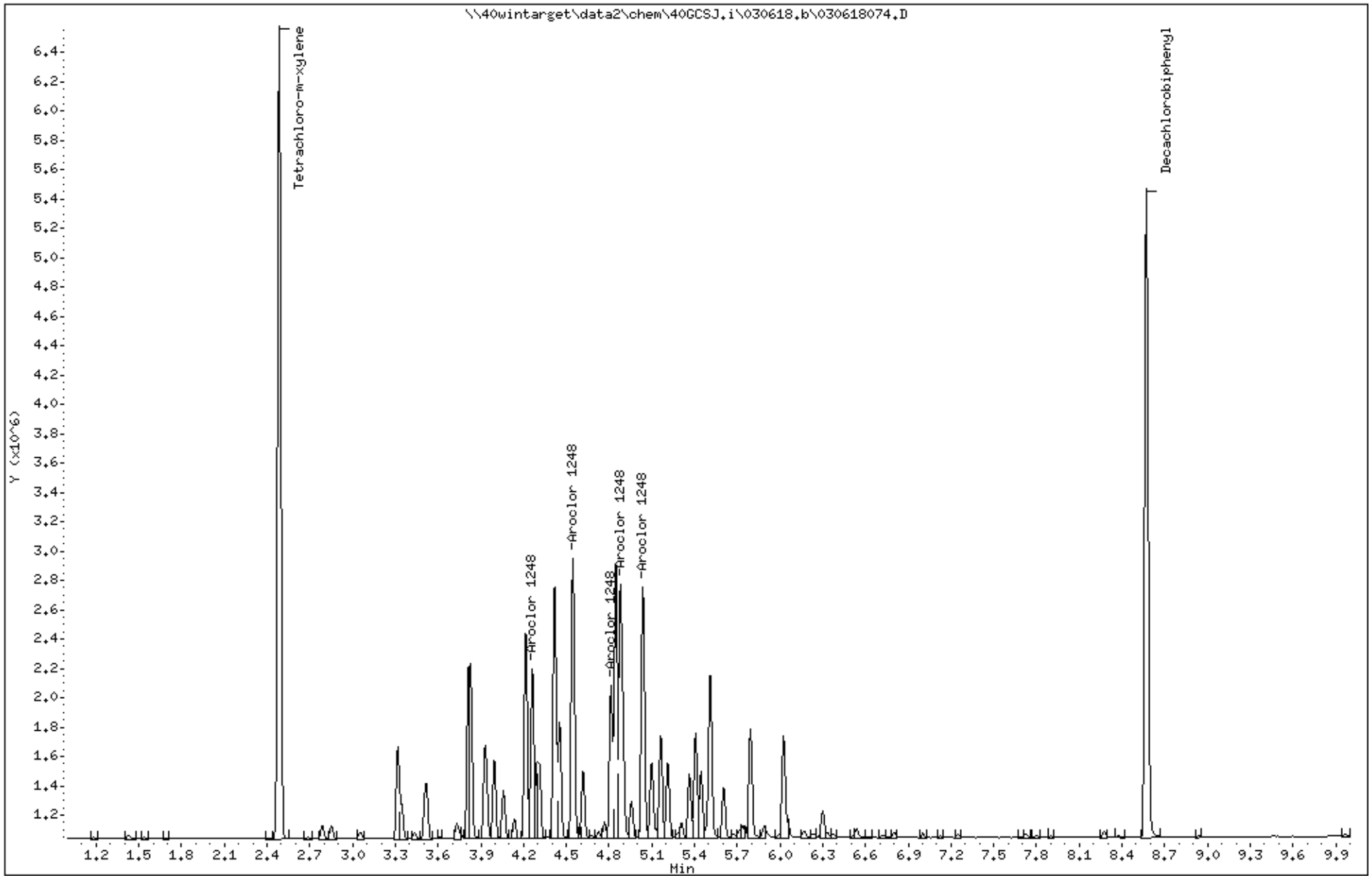
Instrument: 40GCSJ.i

Sample Info: 1248-ICV, 185563:1

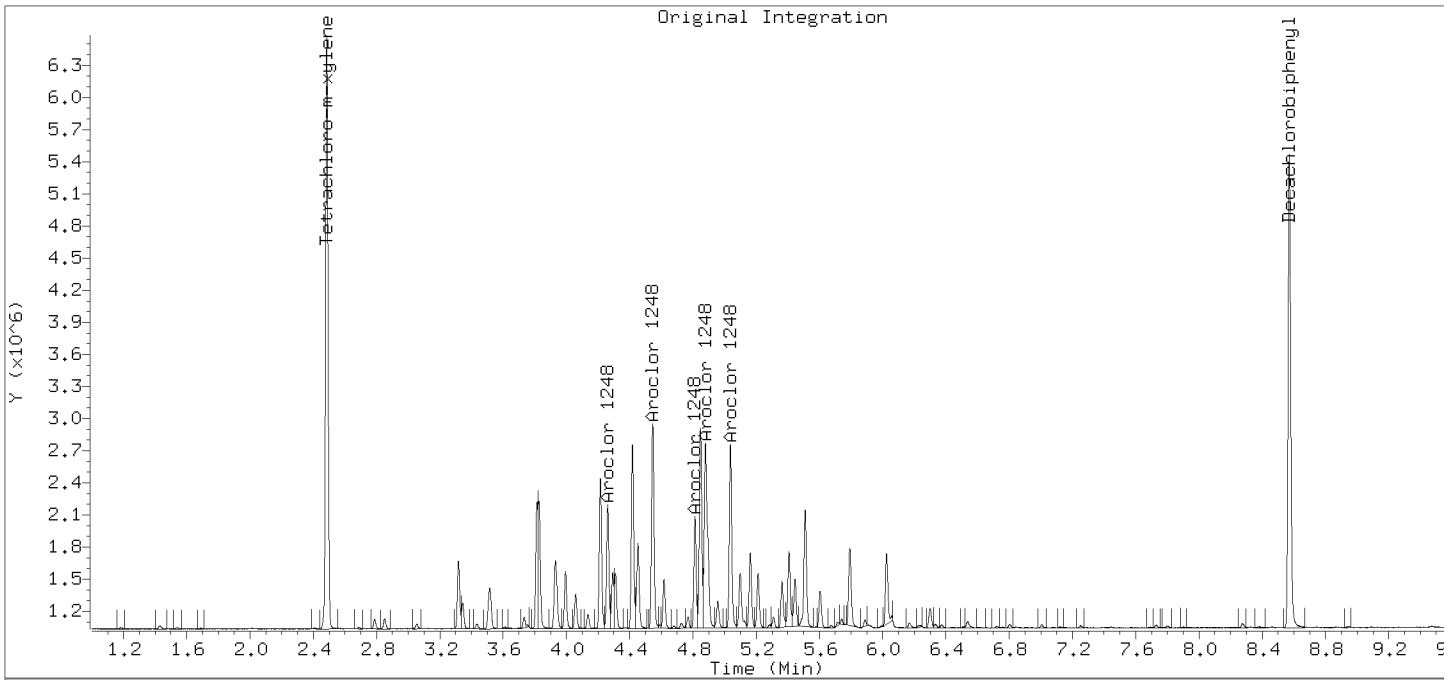
Operator: BLM

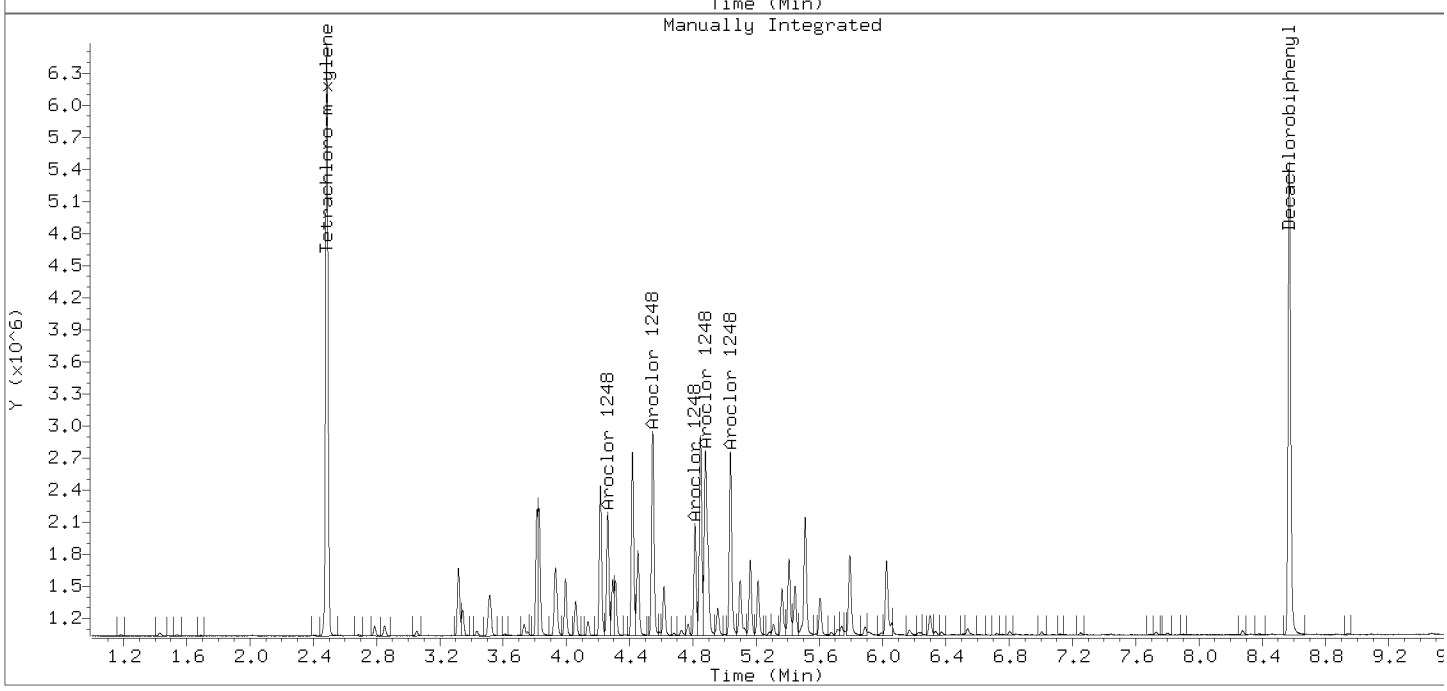
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 21:00

Client ID: 1254-ICV

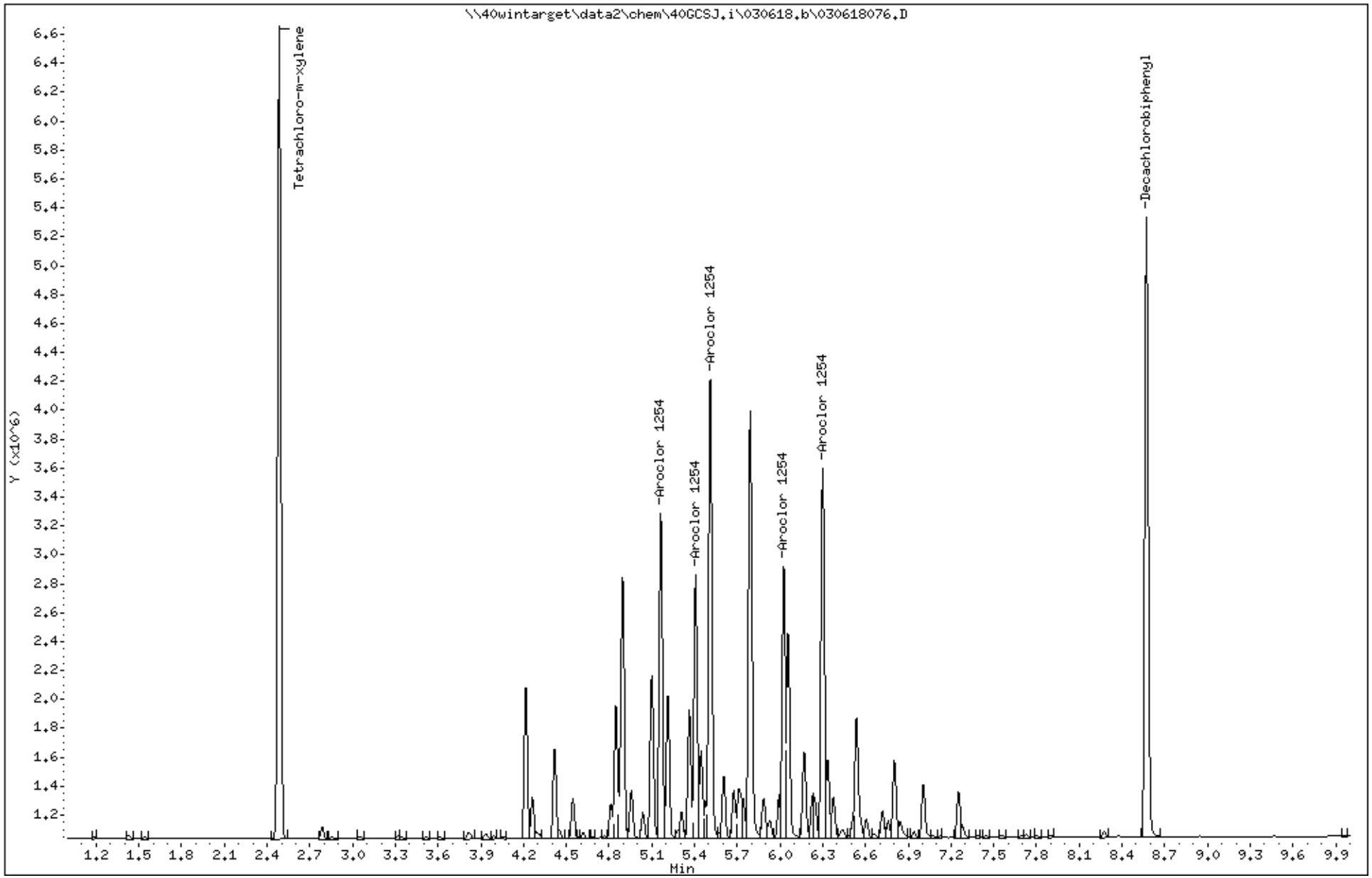
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

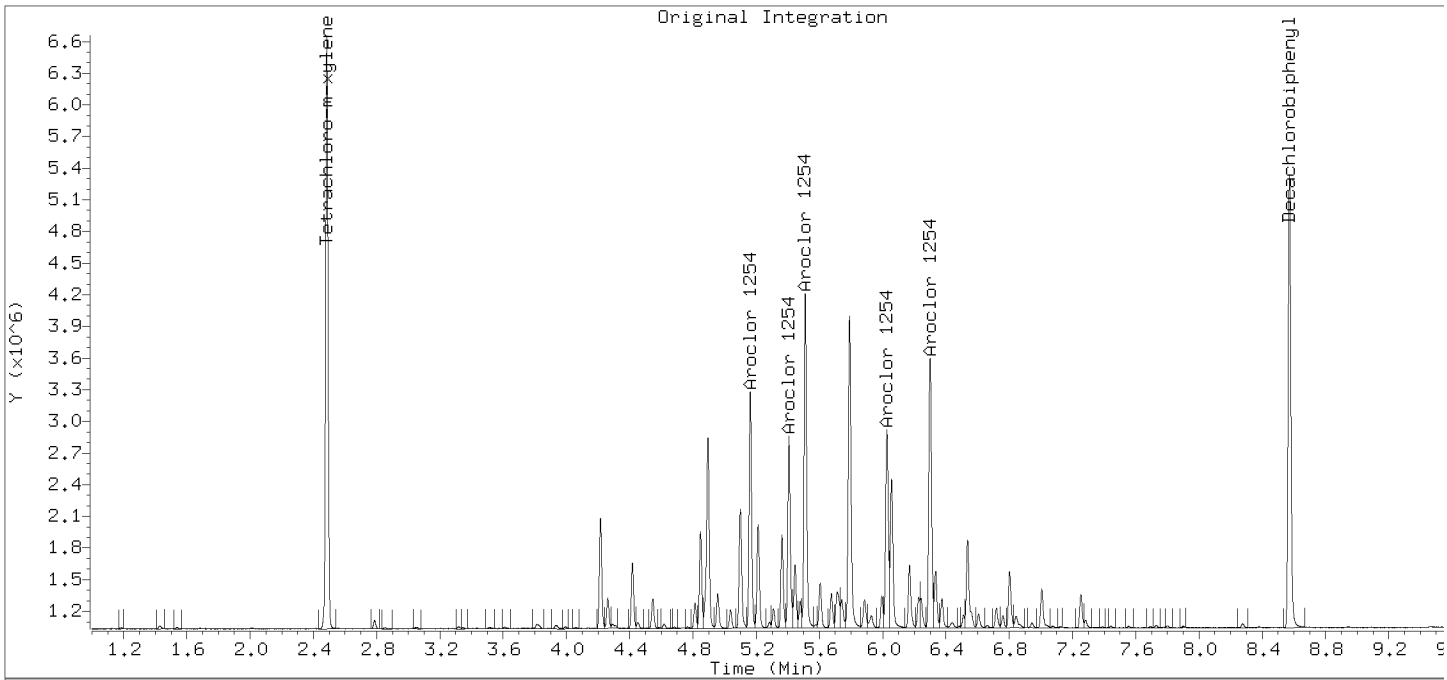
Operator: BLM

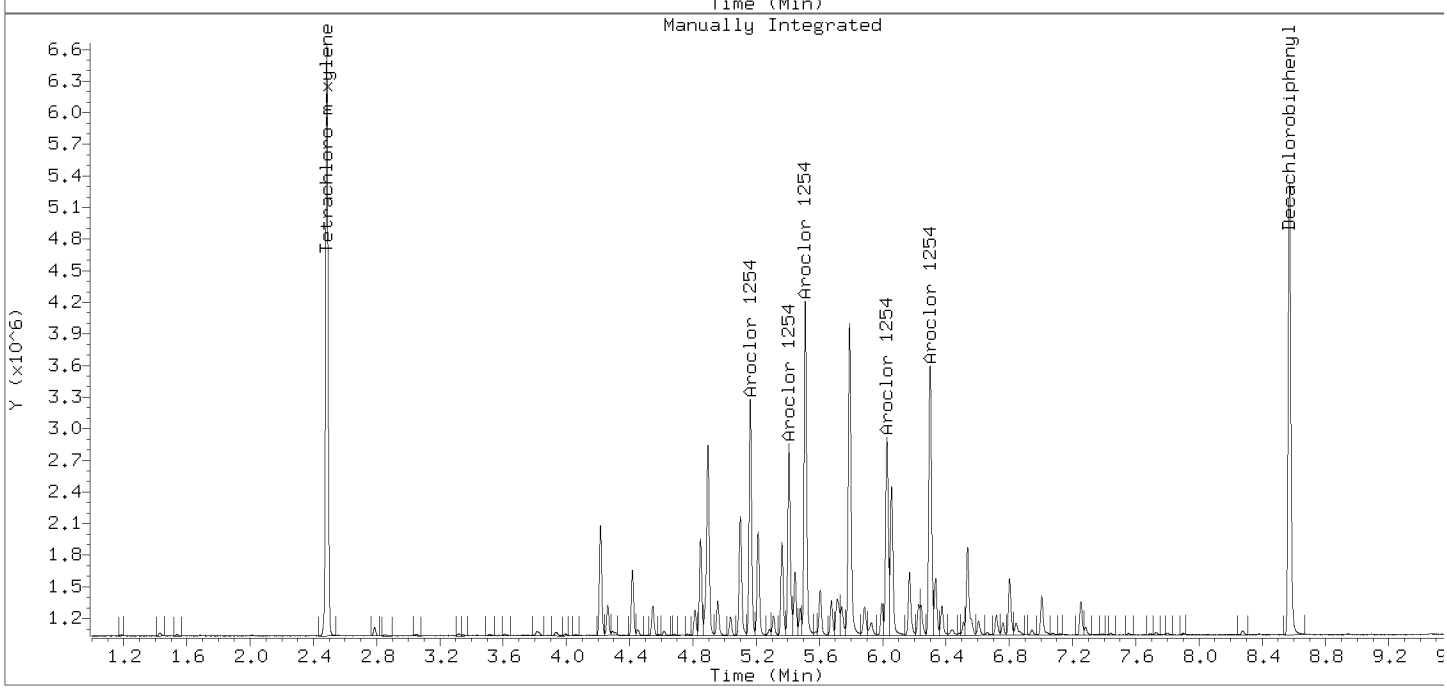
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 21:16

Client ID: 1660-ICV

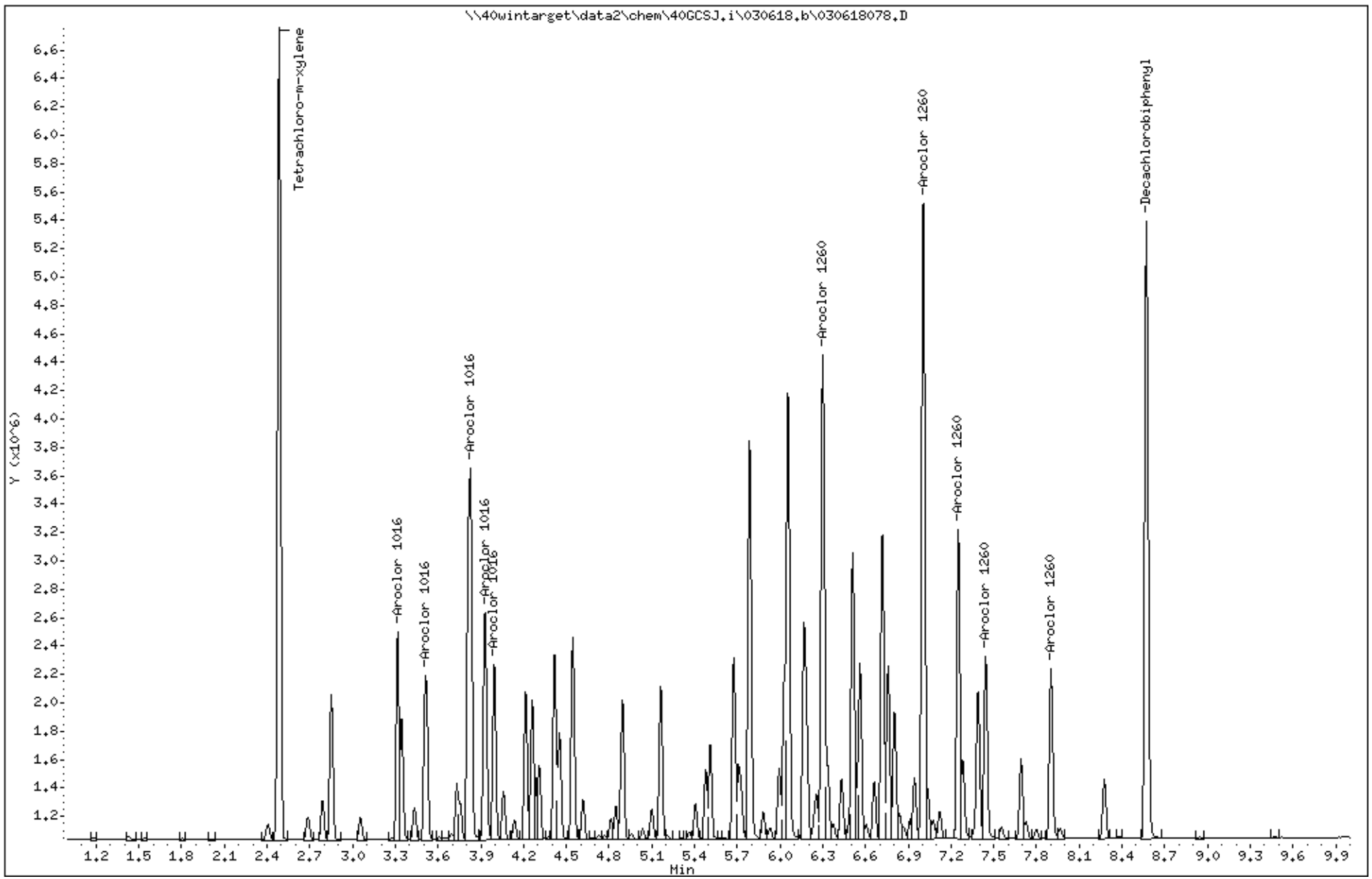
Instrument: 40GCSJ.i

Sample Info: 1660-ICV, 185565:1

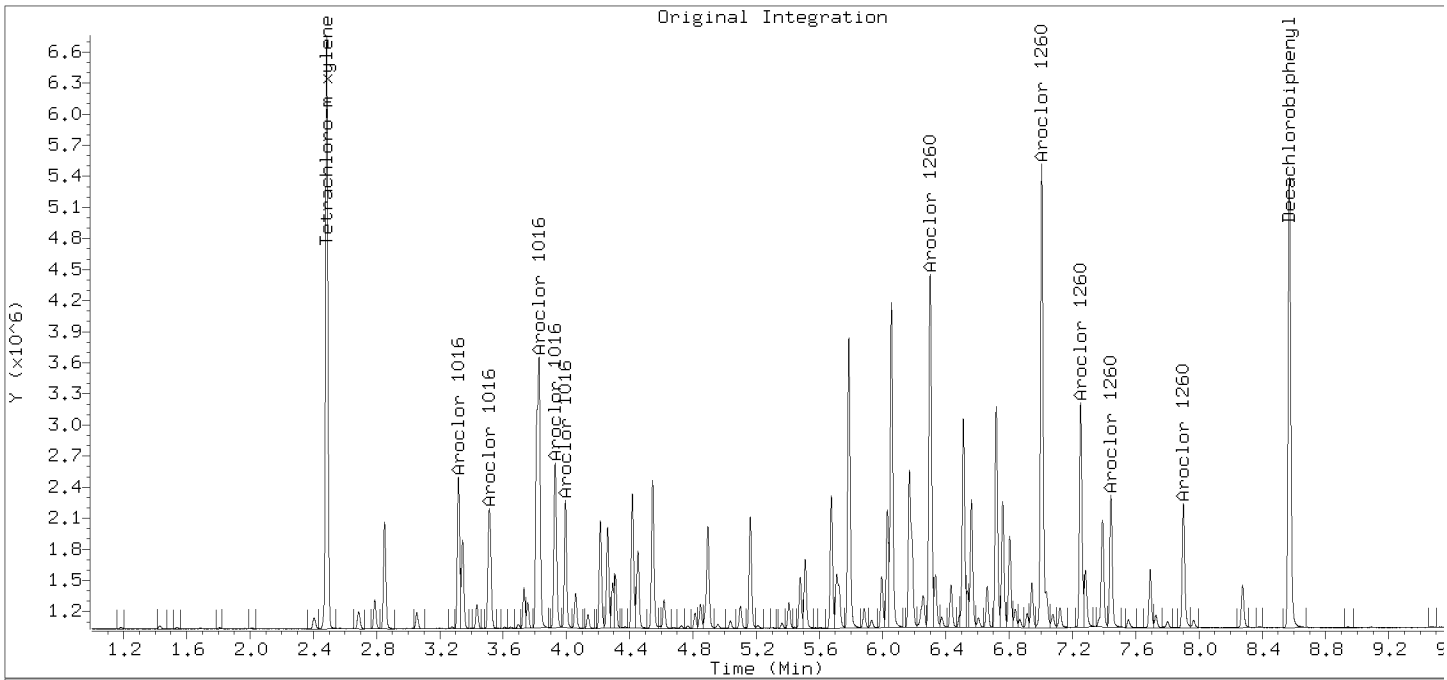
Operator: BLM

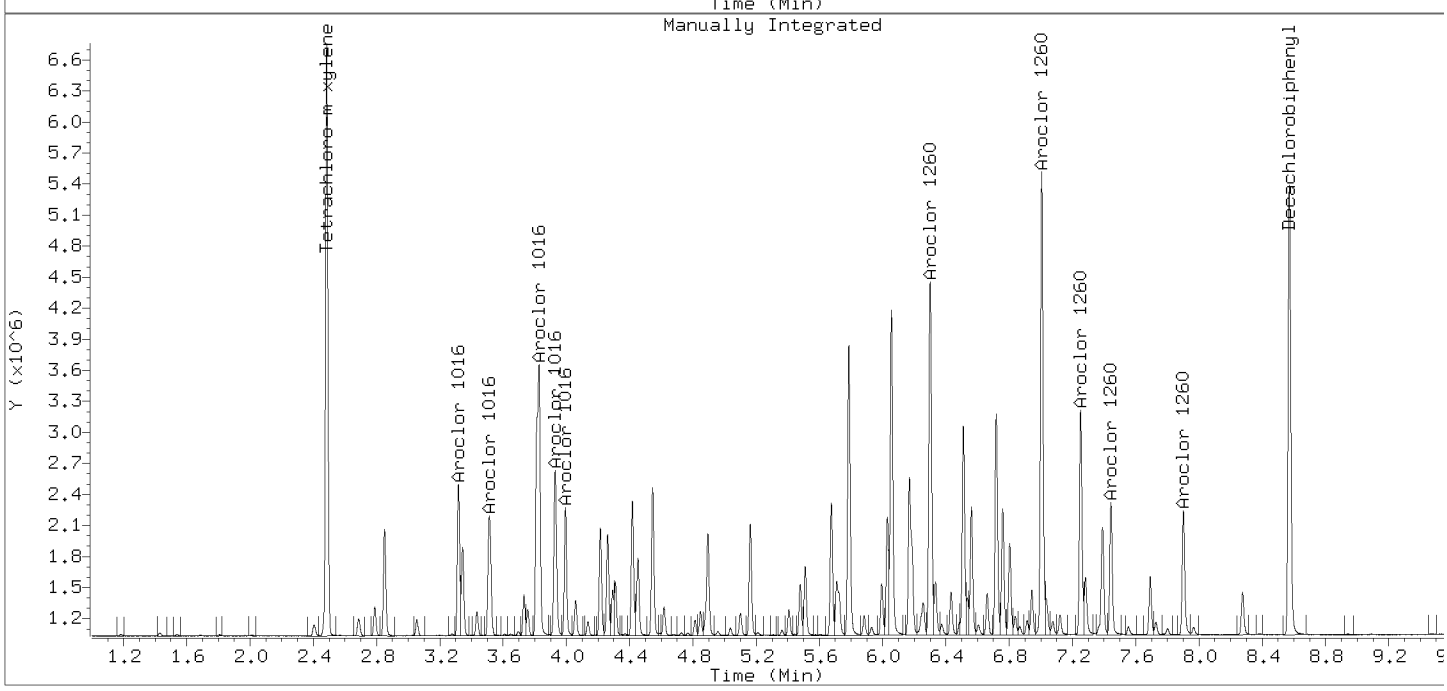
Column phase: ZB-1ms

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\042418.b\042418004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 24-APR-2018 13:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 09:54 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.185	51263	36525	0.713	0.05		
1.429	42912	29540	0.688	0.04		
1.544	21628	15225	0.704	0.02		
1.687	25676	21176	0.825	0.02		
1.806	22832	14745	0.646	0.02		
2.009	26287	20341	0.774	0.02		
2.405	147516	108162	0.733	0.16		
2.485	6341660	5774011	0.910	7.64	$ 2 Tetrachloro-m-xylene	
2.687	210647	165375	0.785	0.23		
2.790	321375	289482	0.901	0.36		
2.852	1177142	1050543	0.892	1.32		
3.032	15162	15852	1.045	0.01		
3.055	177364	152676	0.861	0.19		
3.196	11838	7852	0.663	0.01		
3.276	29233	21021	0.719	0.03		
3.317	1597207	1446341	0.906	1.79	5 Aroclor 1016	BA
3.344	936110	836261	0.893	1.05		
3.434	258751	228335	0.882	0.29		
3.514	1601310	1133584	0.708	1.80	5 Aroclor 1016	BA
3.609	24464	21516	0.879	0.02		
3.696	45276	42781	0.945	0.05		
3.732	403574	400455	0.992	0.45		
3.756	267430	250221	0.936	0.30		
3.826	4554618	2610053	0.573	5.12	5 Aroclor 1016	BA
3.928	1952601	1594416	0.817	2.19	5 Aroclor 1016	BA
3.994	1313282	1224689	0.933	1.47	5 Aroclor 1016	BA
4.058	384425	344250	0.895	0.43		
4.136	147712	134432	0.910	0.16		
4.215	1154839	1077859	0.933	1.29		
4.260	1037759	965910	0.931	1.16		
4.293	426817	438535	1.027	0.48		
4.309	543104	504962	0.930	0.61		
4.371	39029	24685	0.632	0.04		
4.417	1446208	1312704	0.908	1.62		
4.452	1034582	815053	0.788	1.16		
4.545	1838095	1637836	0.891	2.06		
4.617	412598	381792	0.925	0.46		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.679	26710	21421	0.802	0.03	
4.724	67609	55264	0.817	0.07	
4.769	58170	52567	0.904	0.06	
4.813	327354	312011	0.953	0.36	
4.847	517268	492795	0.953	0.58	
4.894	1659096	1184426	0.714	1.86	
4.957	107274	83539	0.779	0.12	
5.036	95923	82519	0.860	0.10	
5.100	348626	296285	0.850	0.39	
5.162	1368906	1243529	0.908	1.53	
5.211	61514	52341	0.851	0.06	
5.307	16106	15663	0.972	0.01	
5.362	92745	84940	0.916	0.10	
5.406	390722	335970	0.860	0.43	
5.477	543289	515351	0.949	0.61	
5.510	944154	842058	0.892	1.06	
5.605	22104	16094	0.728	0.02	
5.675	1393033	1305999	0.938	1.56	
5.710	1007781	571164	0.567	1.13	
5.786	3437383	2939521	0.855	3.86	
5.883	232858	205089	0.881	0.26	
5.928	114156	92105	0.807	0.12	
5.994	580489	552818	0.952	0.65	
6.029	1312477	1272605	0.970	1.47	
6.055	3799994	3297927	0.868	4.27	
6.169	2438534	1564237	0.641	2.74	
6.255	557323	324718	0.583	0.62	
6.299	4580615	3752062	0.819	5.15	8 Aroclor 1260
6.334	674241	592843	0.879	0.75	
6.374	173436	136102	0.785	0.19	
6.431	485860	414505	0.853	0.54	
6.487	97257	129393	1.330	0.10	
6.509	2291271	2033638	0.888	2.57	
6.534	406973	446197	1.096	0.45	
6.560	1419057	1250846	0.881	1.59	
6.604	154717	119213	0.771	0.17	
6.660	443802	412116	0.929	0.49	
6.718	2430754	2188467	0.900	2.73	
6.758	1369681	1181549	0.863	1.54	
6.803	1118422	985691	0.881	1.25	
6.837	214121	178441	0.833	0.24	
6.866	109924	95689	0.871	0.12	
6.912	156186	138034	0.884	0.17	
6.942	483812	432716	0.894	0.54	
7.004	5230756	4668544	0.893	5.88	8 Aroclor 1260
7.034	366899	354365	0.966	0.41	
7.075	172607	133205	0.772	0.19	
7.121	250252	203197	0.812	0.28	
7.250	2504182	2177913	0.870	2.81	8 Aroclor 1260
7.282	731363	587459	0.803	0.82	
7.389	1280984	1055957	0.824	1.44	
7.442	1546826	1316158	0.851	1.73	8 Aroclor 1260
7.553	106343	81173	0.763	0.11	
7.690	615922	541042	0.878	0.69	
7.727	99046	80167	0.809	0.11	
7.773	18071	16738	0.926	0.02	
7.800	77462	62385	0.805	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.900	1377920	1165036	0.846	1.54	8 Aroclor 1260
7.963	102222	75504	0.739	0.11	
8.275	362170	307838	0.850	0.40	
8.374	22752	16362	0.719	0.02	
8.571	5801206	4934735	0.851	6.52	$ 12 Decachlorobiphenyl
8.938	28797	16993	0.590	0.03	
9.530	10018	7623	0.761	0.01	
9.959	23344	14142	0.606	0.02	
	88903193	75266190		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418004.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 24-APR-2018 13:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17498,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 09:54 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 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	6341660	0.05000	0.051			
5 Aroclor 1016					CAS #: 12674-11-2			
3.317	3.318	-0.001	1597207	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.513	3.512	0.001	1601310	0.50000	0.52	0.00- 20.00	100.26	BA
3.825	3.826	-0.001	4554618	0.50000	0.51	0.00- 20.00	285.16	BA
3.928	3.929	-0.001	1952600	0.50000	0.52	0.00- 20.00	122.25	BA
3.994	3.994	0.000	1313281	0.50000	0.50	0.00- 20.00	82.22	BA
Average of Peak Amounts =					0.51400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.299	6.300	-0.001	4580614	0.50000	0.52	0.00- 20.00	100.00(M)	BA
7.003	7.006	-0.003	5230755	0.50000	0.52	0.00- 20.00	114.19	BA
7.250	7.251	-0.001	2504182	0.50000	0.52	0.00- 20.00	54.67	BA
7.442	7.443	-0.001	1546825	0.50000	0.53	0.00- 20.00	33.77	BA
7.900	7.901	-0.001	1377920	0.50000	0.52	0.00- 20.00	30.08	BA
Average of Peak Amounts =					0.52200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5801206	0.05000	0.053			

QC Flag Legend

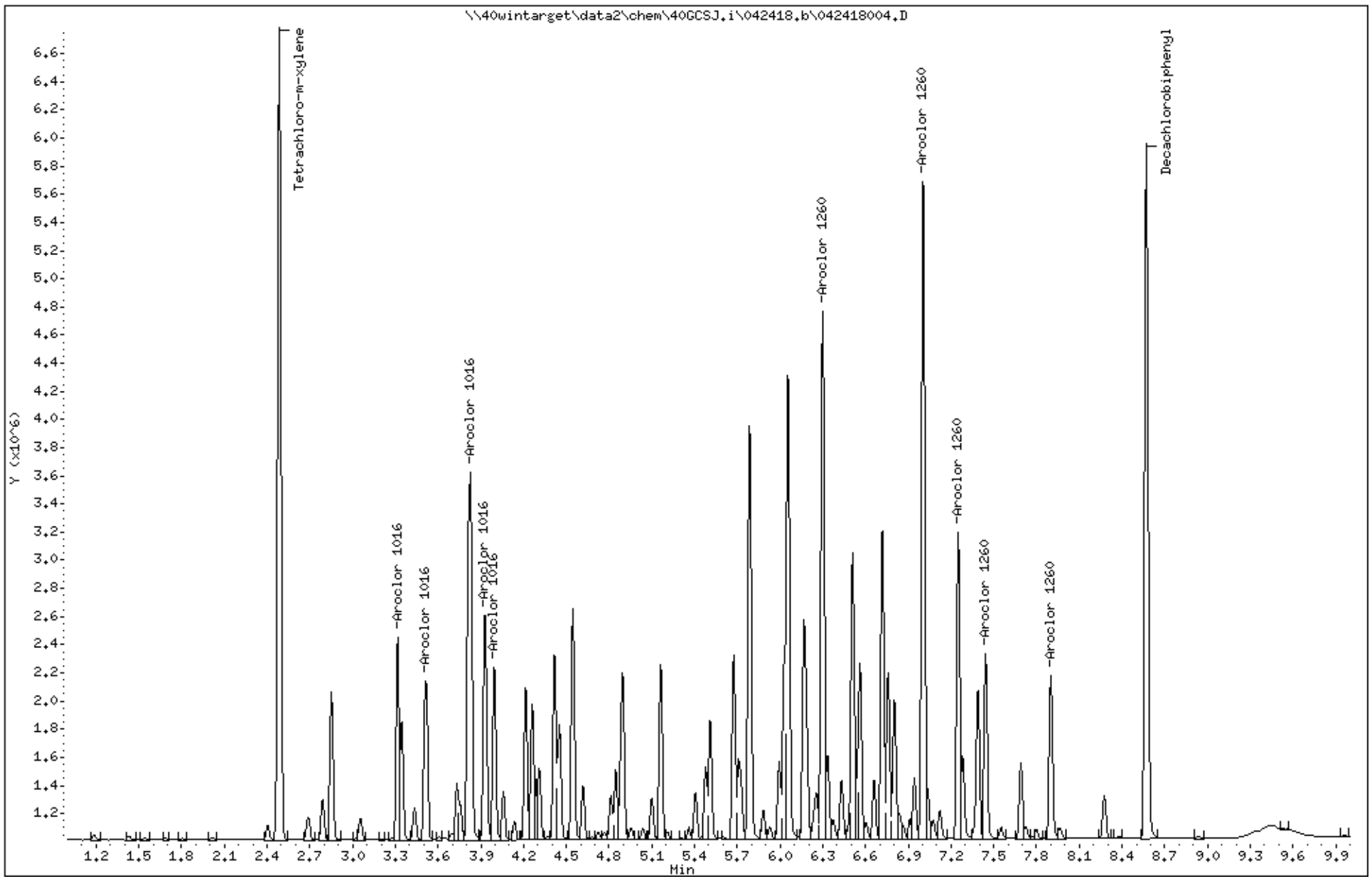
M - Compound response manually integrated.

Review Codes Legend

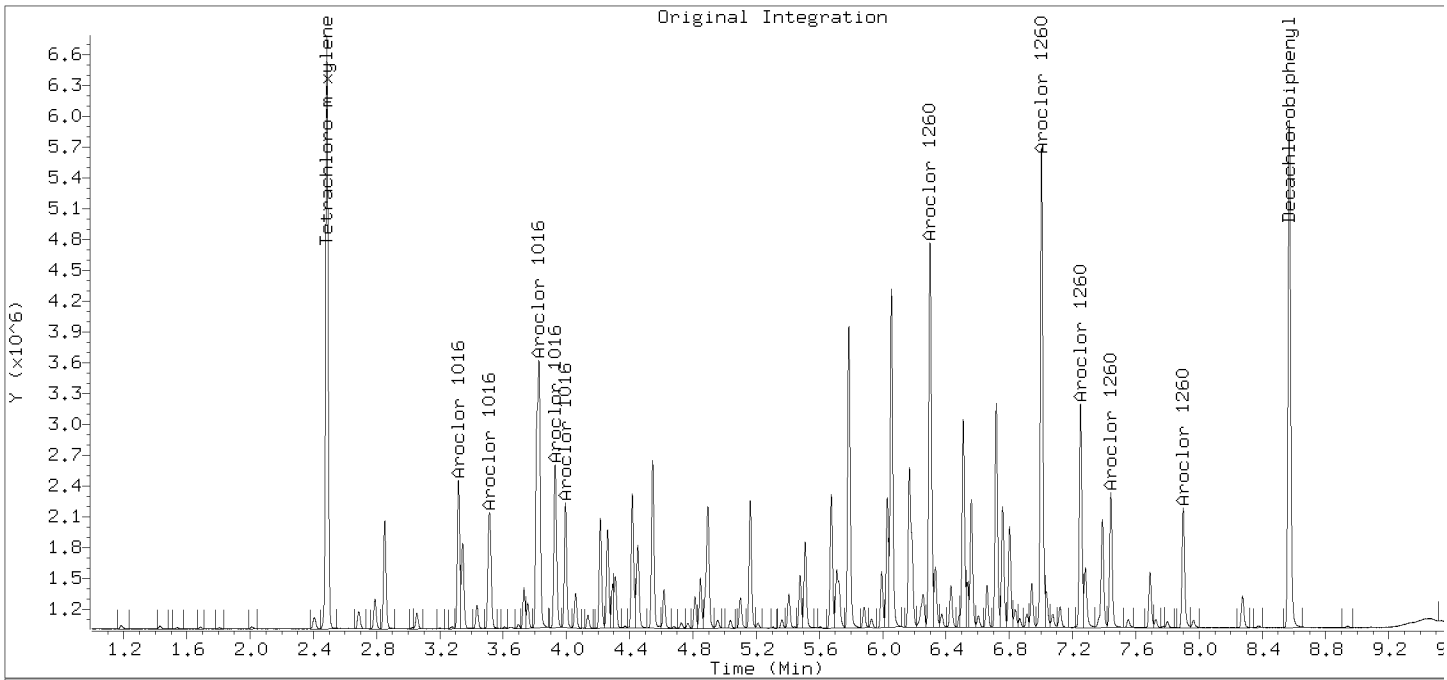
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

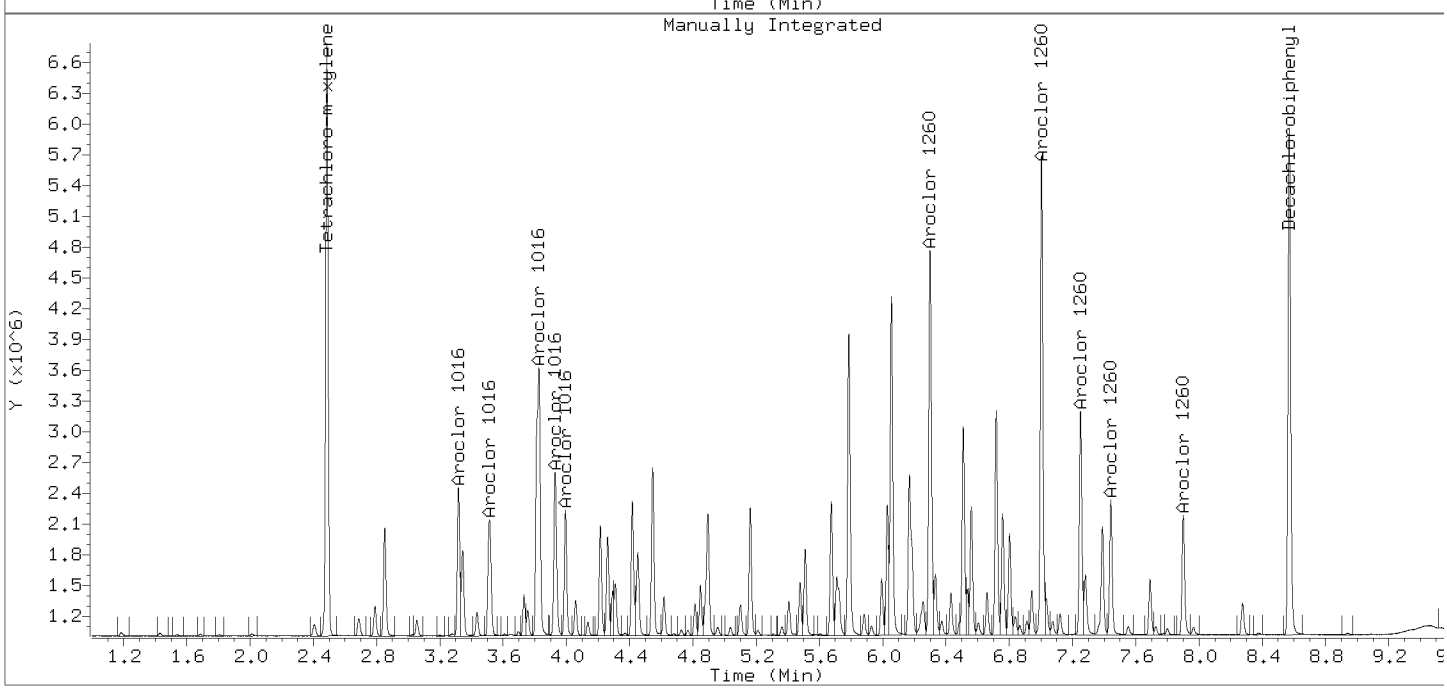
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418004.D
Date : 24-APR-2018 13:10
Client ID: 1660-CCV
Sample Info: 1660-CCV, 185559:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418004.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 24-APR-2018 13:10 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1587296	1597207	BA
Aroclor 1016	1587296	1597207	BA
Aroclor 1016	1587296	1597207	BA
Aroclor 1016	1587296	1597207	BA
Aroclor 1016	1587296	1597207	BA
Aroclor 1260	4560932	4580614	BA
Aroclor 1260	4560932	4580614	BA
Aroclor 1260	4560932	4580614	BA
Aroclor 1260	4560932	4580614	BA
Aroclor 1260	4560932	4580614	BA
Tetrachloro-m-xylene	6341660	6341660	
Decachlorobiphenyl	5801206	5801206	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 24-APR-2018 16:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 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	43519	29331	0.674	0.24		
1.429	38501	29474	0.766	0.21		
1.539	14815	12375	0.835	0.08		
1.685	22525	16883	0.750	0.12		
1.805	524050	422557	0.806	2.89	1 Aroclor 1221	BA
2.011	31272	18861	0.603	0.17		
2.196	174322	135830	0.779	0.96		
2.408	269823	194387	0.720	1.49	1 Aroclor 1221	BA
2.485	6133471	5590080	0.911	34.16	$ 2 Tetrachloro-m-xylene	BA
2.688	716864	576784	0.805	3.96	1 Aroclor 1221	BA
2.789	555215	507864	0.915	3.07	1 Aroclor 1221	BA
2.851	1709278	1472860	0.862	9.45	1 Aroclor 1221	BA
3.030	15213	14096	0.927	0.08		
3.054	40056	30893	0.771	0.22		
3.279	125555	94194	0.750	0.69		
3.324	397716	231413	0.582	2.19		
3.433	30976	29506	0.953	0.17		
3.512	145854	107149	0.735	0.80		
3.610	22786	21753	0.955	0.12		
3.697	13205	13893	1.052	0.07		
3.730	40935	42154	1.030	0.22		
3.757	51097	38697	0.757	0.28		
3.826	353468	209599	0.593	1.95		
3.929	165763	137023	0.827	0.91		
3.994	108355	99540	0.919	0.59		
4.053	34330	24484	0.713	0.18		
4.138	9908	7288	0.736	0.05		
4.214	34346	34037	0.991	0.18		
4.260	28434	28323	0.996	0.15		
4.291	21218	13590	0.641	0.11		
4.417	36924	37580	1.018	0.20		
4.443	23539	17702	0.752	0.13		
4.544	57798	49908	0.863	0.31		
4.615	16666	13905	0.834	0.09		
4.812	25028	23813	0.951	0.13		
4.848	39250	35163	0.896	0.21		
4.877	59995	42305	0.705	0.33		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.036	35194	32597	0.926	0.19	
5.097	10273	8657	0.843	0.05	
5.211	9688	9351	0.965	0.05	
5.508	17551	11860	0.676	0.09	
5.700	11017	9575	0.869	0.06	
6.197	13708	10576	0.772	0.07	
6.447	14733	9581	0.650	0.08	
7.728	21978	21348	0.971	0.12	
7.778	17859	13569	0.760	0.09	
7.803	17744	13281	0.748	0.09	
8.274	49669	43376	0.873	0.27	
8.376	20472	15674	0.766	0.11	
8.570	5682426	4747181	0.835	31.42	$ 12 Decachlorobiphenyl
8.930	9303	7032	0.756	0.05	
9.466	18833	12262	0.651	0.10	
	18082516	15371214		100.000	

Total unknown % area = 14

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418016.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 24-APR-2018 16:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17498,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 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	6133471	0.05000	0.050			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.804	1.804	0.000	524049	0.50000	0.50	0.00- 20.00	100.00	(M)	BA
2.407	2.407	0.000	269822	0.50000	0.49	0.00- 20.00	51.49		BA
2.687	2.688	-0.001	716863	0.50000	0.52	0.00- 20.00	136.79		BA
2.789	2.789	0.000	555214	0.50000	0.50	0.00- 20.00	105.95		BA
2.850	2.851	-0.001	1709278	0.50000	0.52	0.00- 20.00	326.17		BA
Average of Peak Amounts =					0.50600				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.569	8.571	-0.002	5682425	0.05000	0.052				

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

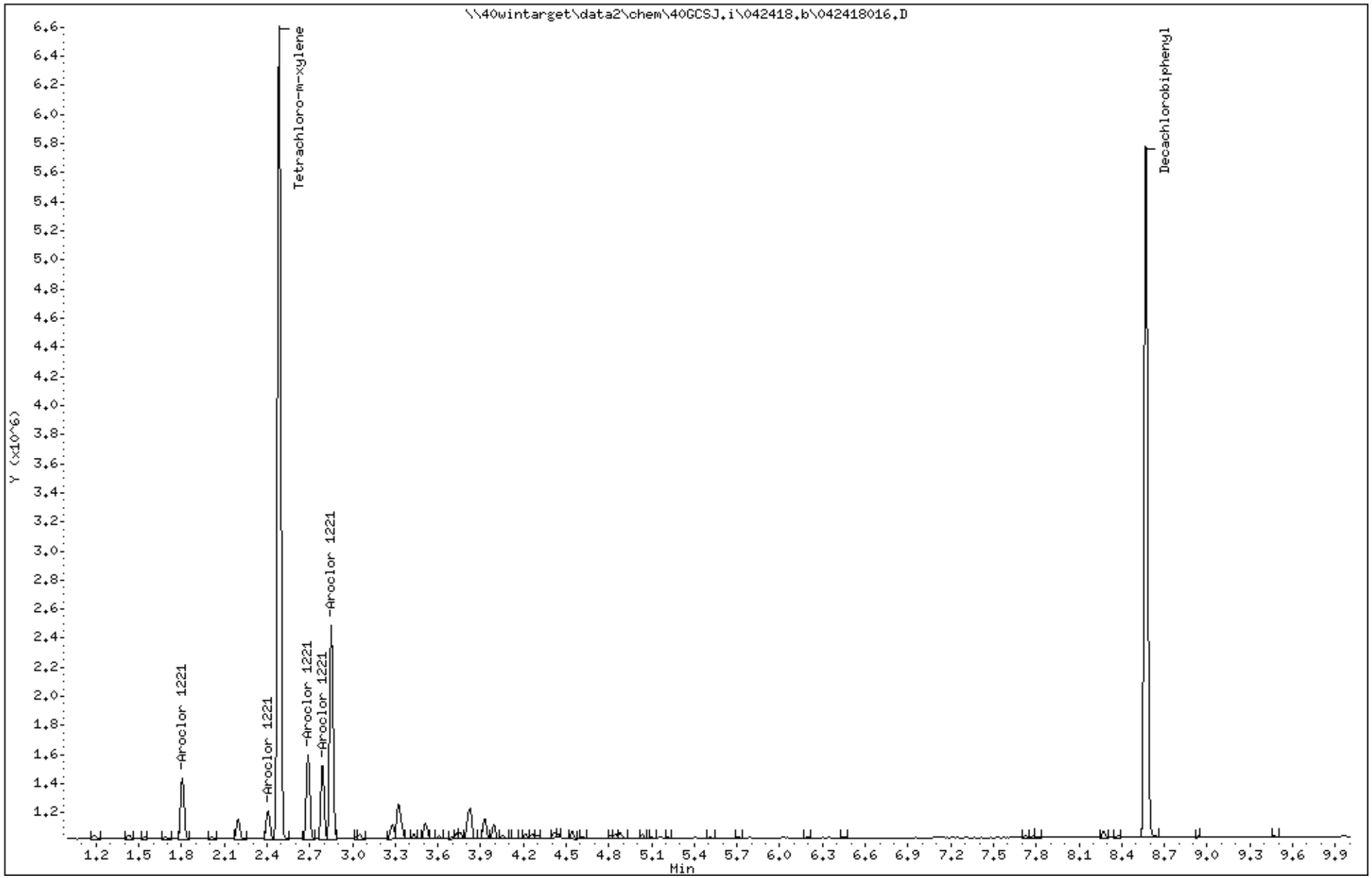
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418016.D
Date : 24-APR-2018 16:20
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

Instrument: 40GCSJ.i

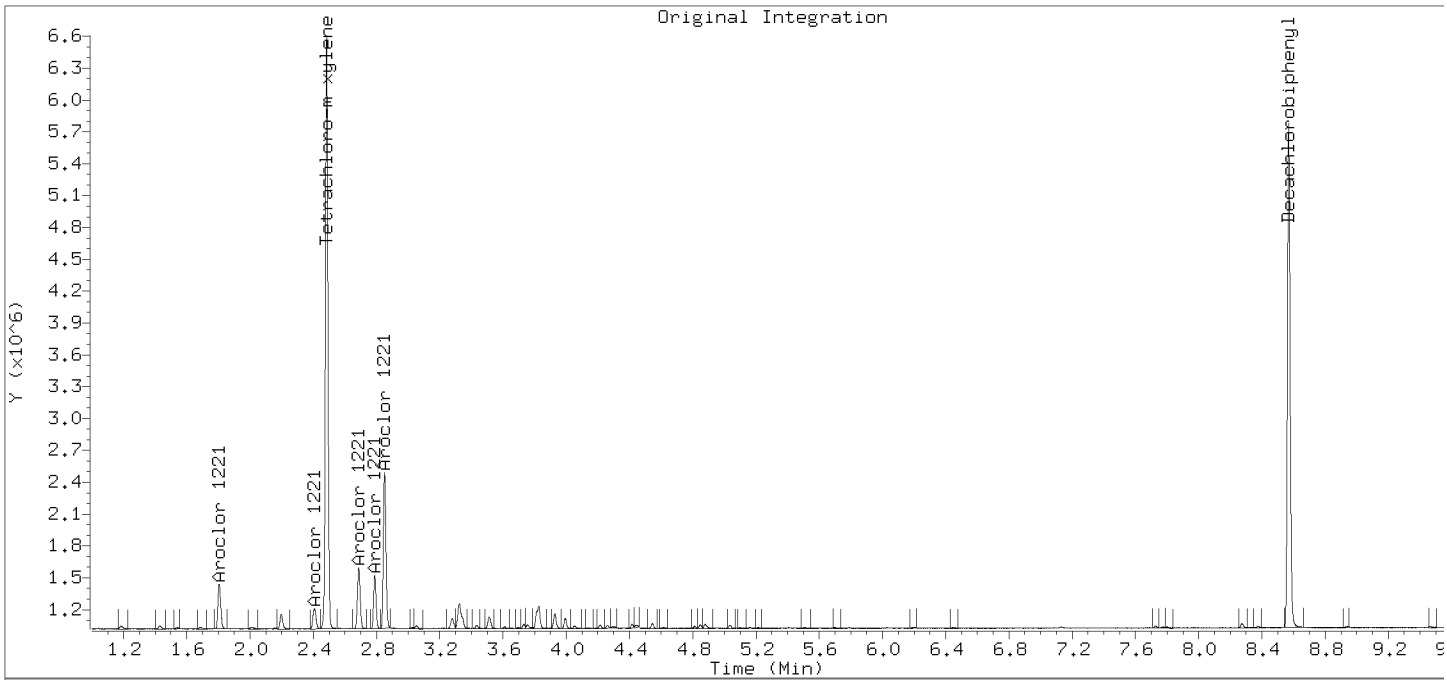
Operator: BLM

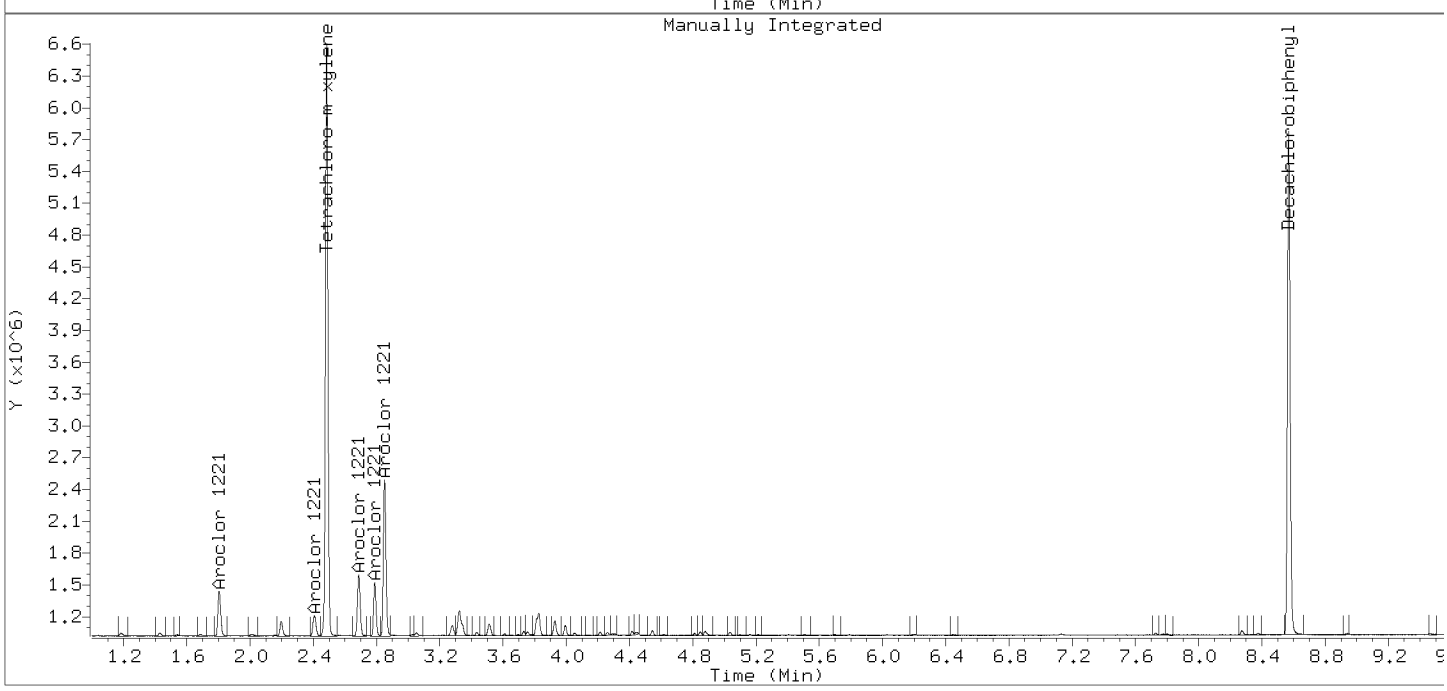
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418016.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 24-APR-2018 16:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	517379	524049	BA
Aroclor 1221	517379	524049	BA
Aroclor 1221	517379	524049	BA
Aroclor 1221	517379	524049	BA
Aroclor 1221	517379	524049	BA
Tetrachloro-m-xylene	6122648	6133471	BA
Decachlorobiphenyl	5682425	5682425	

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 24-APR-2018 19:31
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	29311	24610	0.840	0.10		
1.429	41515	30555	0.736	0.14		
1.535	17621	13009	0.738	0.06		
1.686	27642	19146	0.693	0.09		
1.805	303429	265371	0.875	1.05		
2.011	18356	15863	0.864	0.06		
2.195	96003	82073	0.855	0.33		
2.405	203453	149052	0.733	0.71		
2.484	6125128	5816192	0.950	21.74	$ 2 Tetrachloro-m-xylene	
2.687	464516	375340	0.808	1.62		
2.789	428865	393169	0.917	1.49		
2.850	1382384	1251325	0.905	4.82	4 Aroclor 1232	BA
3.053	89673	78171	0.872	0.31		
3.280	78776	58463	0.742	0.27		
3.318	798410	704601	0.883	2.78		
3.343	426002	383441	0.900	1.48		
3.433	125585	110174	0.877	0.43		
3.512	721145	512927	0.711	2.51	4 Aroclor 1232	BA
3.609	28637	24546	0.857	0.09		
3.695	25814	24677	0.956	0.09		
3.731	189035	193105	1.022	0.66		
3.756	143526	126862	0.884	0.50		
3.826	2090230	1245704	0.596	7.29	4 Aroclor 1232	BA
3.928	891121	756147	0.849	3.11	4 Aroclor 1232	BA
3.994	584372	568019	0.972	2.04	4 Aroclor 1232	BA
4.058	152204	138678	0.911	0.53		
4.134	58789	52039	0.885	0.20		
4.214	412878	381523	0.924	1.44		
4.260	403274	382705	0.949	1.40		
4.291	177968	179172	1.007	0.62		
4.309	201360	196297	0.975	0.70		
4.373	22086	13740	0.622	0.07		
4.416	572143	533870	0.933	1.99		
4.451	463861	329915	0.711	1.61		
4.545	724916	673107	0.929	2.53		
4.617	171965	159690	0.929	0.60		
4.680	12160	10734	0.883	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.726	36886	32235	0.874	0.12	
4.766	40992	38513	0.940	0.14	
4.812	343165	324398	0.945	1.19	
4.847	594151	576317	0.970	2.07	
4.878	757556	597231	0.788	2.64	
4.958	79308	63099	0.796	0.27	
5.036	645093	600841	0.931	2.25	
5.099	115090	89070	0.774	0.40	
5.162	135623	120274	0.887	0.47	
5.212	95934	85962	0.896	0.33	
5.308	25980	20158	0.776	0.09	
5.363	90018	73903	0.821	0.31	
5.406	142057	120176	0.846	0.49	
5.445	90552	79543	0.878	0.31	
5.509	262357	186619	0.711	0.91	
5.602	73659	63923	0.868	0.25	
5.676	15301	14120	0.923	0.05	
5.713	25276	16338	0.646	0.08	
5.738	20308	17897	0.881	0.07	
5.790	175840	131764	0.749	0.61	
5.888	24017	16261	0.677	0.08	
6.024	136626	121949	0.893	0.47	
6.055	44199	35023	0.792	0.15	
6.166	19701	16683	0.847	0.06	
6.192	27373	20710	0.757	0.09	
6.297	47537	39723	0.836	0.16	
6.505	14865	13722	0.923	0.05	
6.716	14330	13615	0.950	0.05	
6.794	10122	7546	0.746	0.03	
7.004	29870	24039	0.805	0.10	
7.251	14723	13649	0.927	0.05	
7.390	9658	8758	0.907	0.03	
7.724	22736	17849	0.785	0.07	
7.772	10731	9899	0.922	0.03	
7.796	16370	13465	0.823	0.05	
8.272	55632	42330	0.761	0.19	
8.376	15986	12608	0.789	0.05	
8.569	5654077	4852870	0.858	19.74	$ 12 Decachlorobiphenyl
	28637849	24807092		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 24-APR-2018 19:31
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 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	6125127	0.05000	0.050			
4 Aroclor 1232					CAS #: 1114-16-5			
2.849	2.851	-0.002	1382383	0.50000	0.55	0.00- 20.00	100.00(M)	BA
3.511	3.513	-0.002	721145	0.50000	0.54	0.00- 20.00	52.17	BA
3.825	3.827	-0.002	2090230	0.50000	0.56	0.00- 20.00	151.20	BA
3.927	3.929	-0.002	891121	0.50000	0.55	0.00- 20.00	64.46	BA
3.994	3.995	-0.001	584372	0.50000	0.54	0.00- 20.00	42.27	BA
Average of Peak Amounts =					0.54800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5654077	0.05000	0.052			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418028.D

Date : 24-APR-2018 19:31

Client ID: 1232-CCV

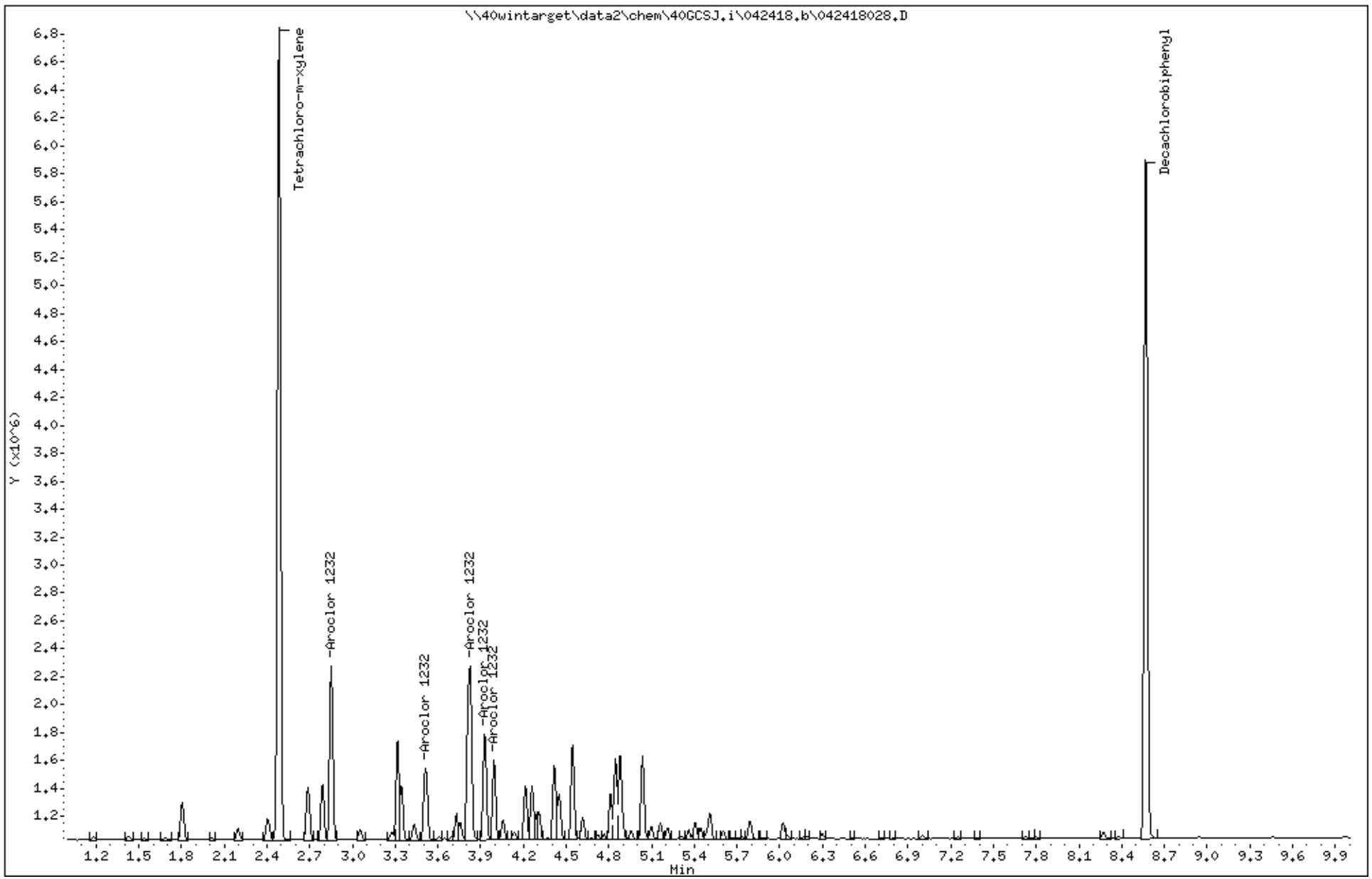
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

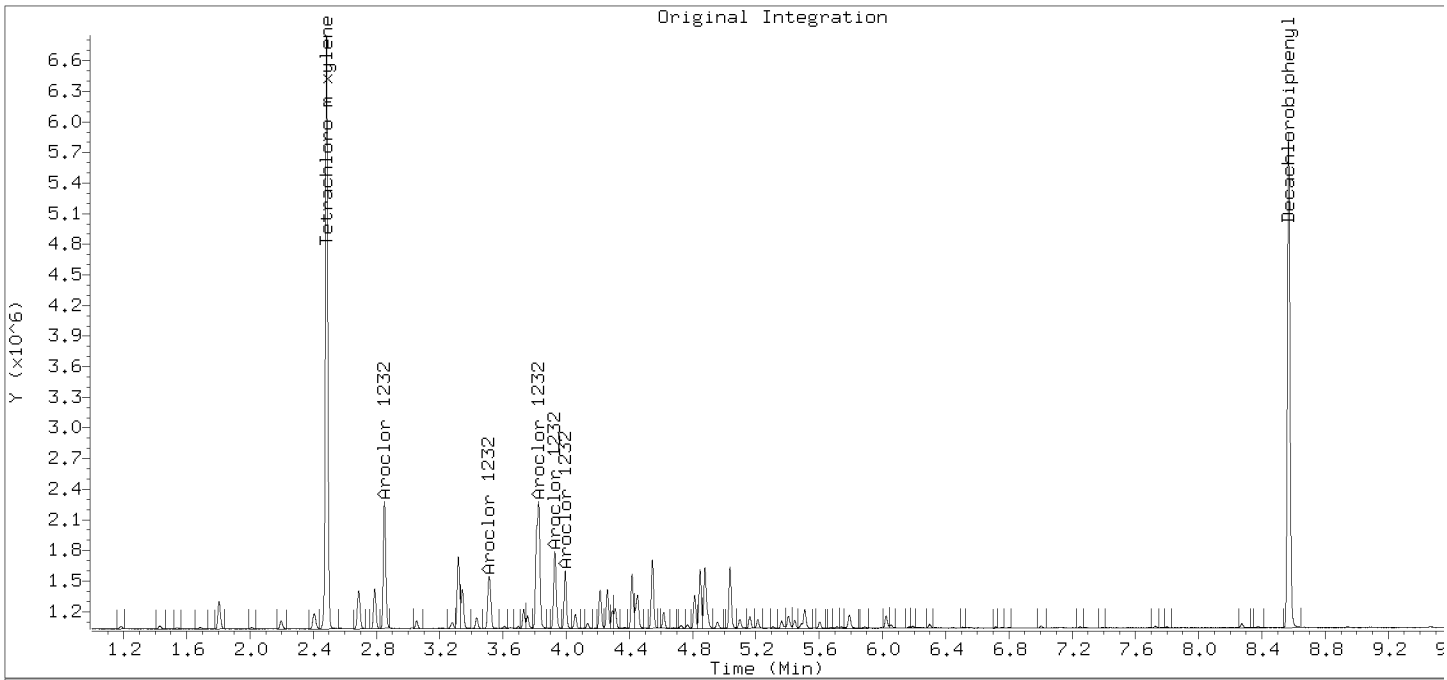
Operator: BLM

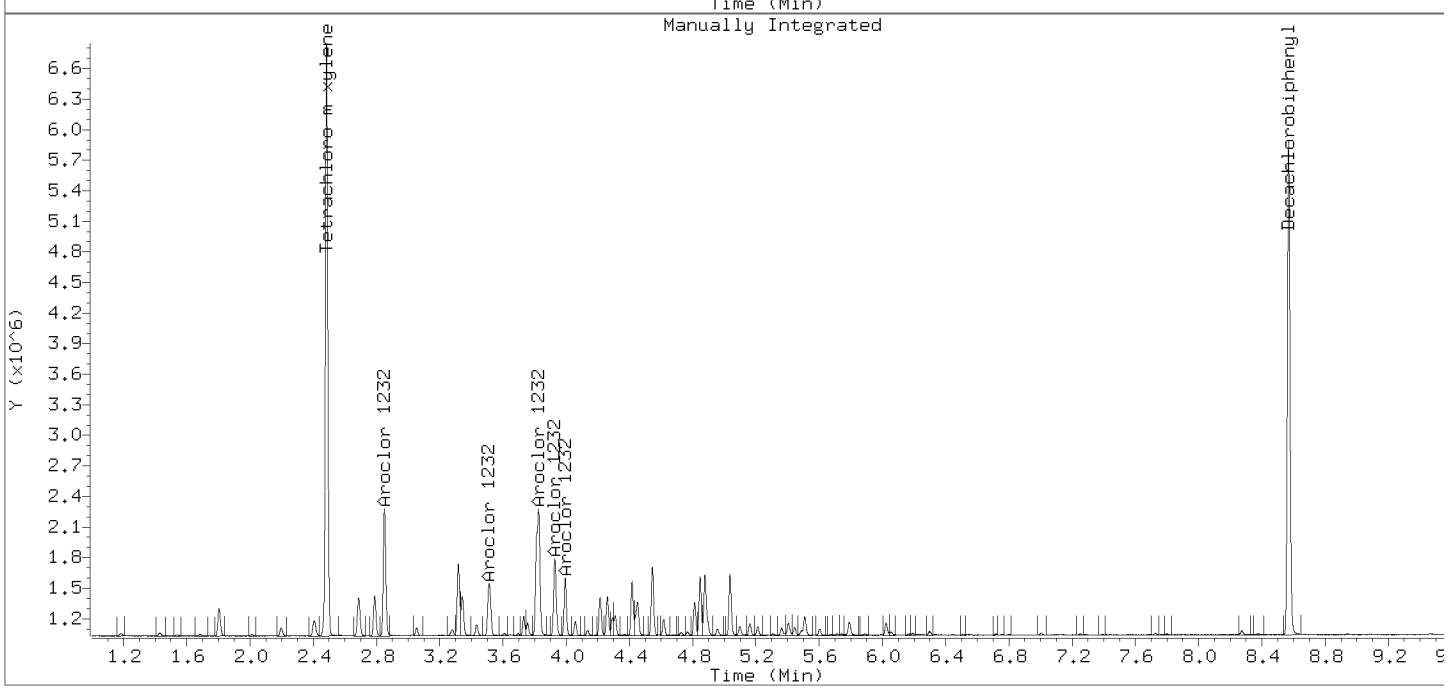
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418028.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 24-APR-2018 19:31 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1366712	1382383	BA
Aroclor 1232	1366712	1382383	BA
Aroclor 1232	1366712	1382383	BA
Aroclor 1232	1366712	1382383	BA
Aroclor 1232	1366712	1382383	BA
Tetrachloro-m-xylene	6125127	6125127	
Decachlorobiphenyl	5654077	5654077	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418038.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 24-APR-2018 22:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 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: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	40399	29369	0.727	0.09		
1.430	38342	31234	0.815	0.09		
1.539	16857	13831	0.821	0.04		
1.684	25167	17788	0.707	0.06		
1.803	11593	11935	1.030	0.02		
2.010	22732	16702	0.735	0.05		
2.404	123658	93474	0.756	0.29		
2.484	6288636	5939228	0.944	15.42	$ 2 Tetrachloro-m-xylene	
2.686	189238	153416	0.811	0.45		
2.788	287198	264830	0.922	0.68		
2.850	1015598	945144	0.931	2.42		
3.054	152923	134079	0.877	0.36		
3.277	25183	20544	0.816	0.06		
3.317	1367377	1266230	0.926	3.26	3 Aroclor 1242	BA
3.343	783229	718758	0.918	1.87		
3.433	218076	195329	0.896	0.52		
3.512	1345311	987727	0.734	3.21	3 Aroclor 1242	BA
3.609	24855	21788	0.877	0.05		
3.644	25311	15900	0.628	0.06		
3.694	38650	36449	0.943	0.09		
3.731	341446	338109	0.990	0.81		
3.755	234007	221009	0.944	0.55		
3.826	3930232	2334830	0.594	9.39	3 Aroclor 1242	BA
3.928	1667879	1391186	0.834	3.98	3 Aroclor 1242	BA
3.993	1116036	1056570	0.947	2.66	3 Aroclor 1242	BA
4.057	315948	287749	0.911	0.75		
4.135	120083	109847	0.915	0.28		
4.214	907718	856420	0.943	2.16		
4.260	873158	853361	0.977	2.08		
4.291	374394	372055	0.994	0.89		
4.309	436462	430326	0.986	1.04		
4.370	31094	22695	0.730	0.07		
4.416	1208737	1141779	0.945	2.88		
4.450	951868	689332	0.724	2.27		
4.545	1564130	1428134	0.913	3.73		
4.616	352136	325250	0.924	0.84		
4.679	23048	18991	0.824	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.726	75574	66233	0.876	0.18	
4.767	85612	81455	0.951	0.20	
4.811	760599	738396	0.971	1.81	
4.847	1289815	1234938	0.957	3.08	
4.878	1647620	1285666	0.780	3.93	
4.957	172146	143410	0.833	0.41	
5.036	1380058	1293440	0.937	3.29	
5.098	280399	214830	0.766	0.67	
5.162	332569	295674	0.889	0.79	
5.211	253702	234559	0.925	0.60	
5.280	18909	18389	0.973	0.04	
5.307	56502	46990	0.832	0.13	
5.362	218273	197194	0.903	0.52	
5.405	371831	302587	0.814	0.88	
5.445	225866	205747	0.911	0.53	
5.508	592249	478974	0.809	1.41	
5.604	172426	157934	0.916	0.41	
5.673	13243	11504	0.869	0.03	
5.718	37484	30524	0.814	0.08	
5.740	48532	44085	0.908	0.11	
5.764	17314	21993	1.270	0.04	
5.791	421423	359032	0.852	1.00	
5.887	62443	41702	0.668	0.14	
5.992	10539	12350	1.172	0.02	
6.023	366725	325548	0.888	0.87	
6.053	62827	53494	0.851	0.15	
6.168	24379	21922	0.899	0.05	
6.191	24985	22457	0.899	0.05	
6.297	117089	98614	0.842	0.27	
6.330	25413	22714	0.894	0.06	
6.369	14596	14244	0.976	0.03	
6.447	12939	8359	0.646	0.03	
6.533	36522	36844	1.009	0.08	
6.800	27981	23866	0.853	0.06	
6.847	9230	9343	1.012	0.02	
7.003	11080	8834	0.797	0.02	
7.727	25418	21394	0.842	0.06	
7.767	12711	9096	0.716	0.03	
7.797	17305	12958	0.749	0.04	
8.274	52296	44614	0.853	0.12	
8.376	18261	14120	0.773	0.04	
8.569	5895844	5104288	0.866	14.09	$ 12 Decachlorobiphenyl
8.938	14017	10468	0.747	0.03	
9.083	9237	8555	0.926	0.02	
9.458	9845	8491	0.862	0.02	
9.960	16850	10071	0.598	0.04	
	41839384	36199298		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418038.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 24-APR-2018 22:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 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: 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	6288635	0.05000	0.051			
3 Aroclor 1242						CAS #: 53469-21-9		
3.317	3.318	-0.001	1367377	0.50000	0.54	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1345310	0.50000	0.53	0.00- 20.00	98.39	BA
3.825	3.827	-0.002	3930231	0.50000	0.55	0.00- 20.00	287.43	BA
3.928	3.929	-0.001	1667878	0.50000	0.55	0.00- 20.00	121.98	BA
3.993	3.995	-0.002	1116035	0.50000	0.54	0.00- 20.00	81.62	BA
Average of Peak Amounts =					0.54200			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.569	8.571	-0.002	5895843	0.05000	0.054			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418038.D

Date : 24-APR-2018 22:09

Client ID: 1242-CCV

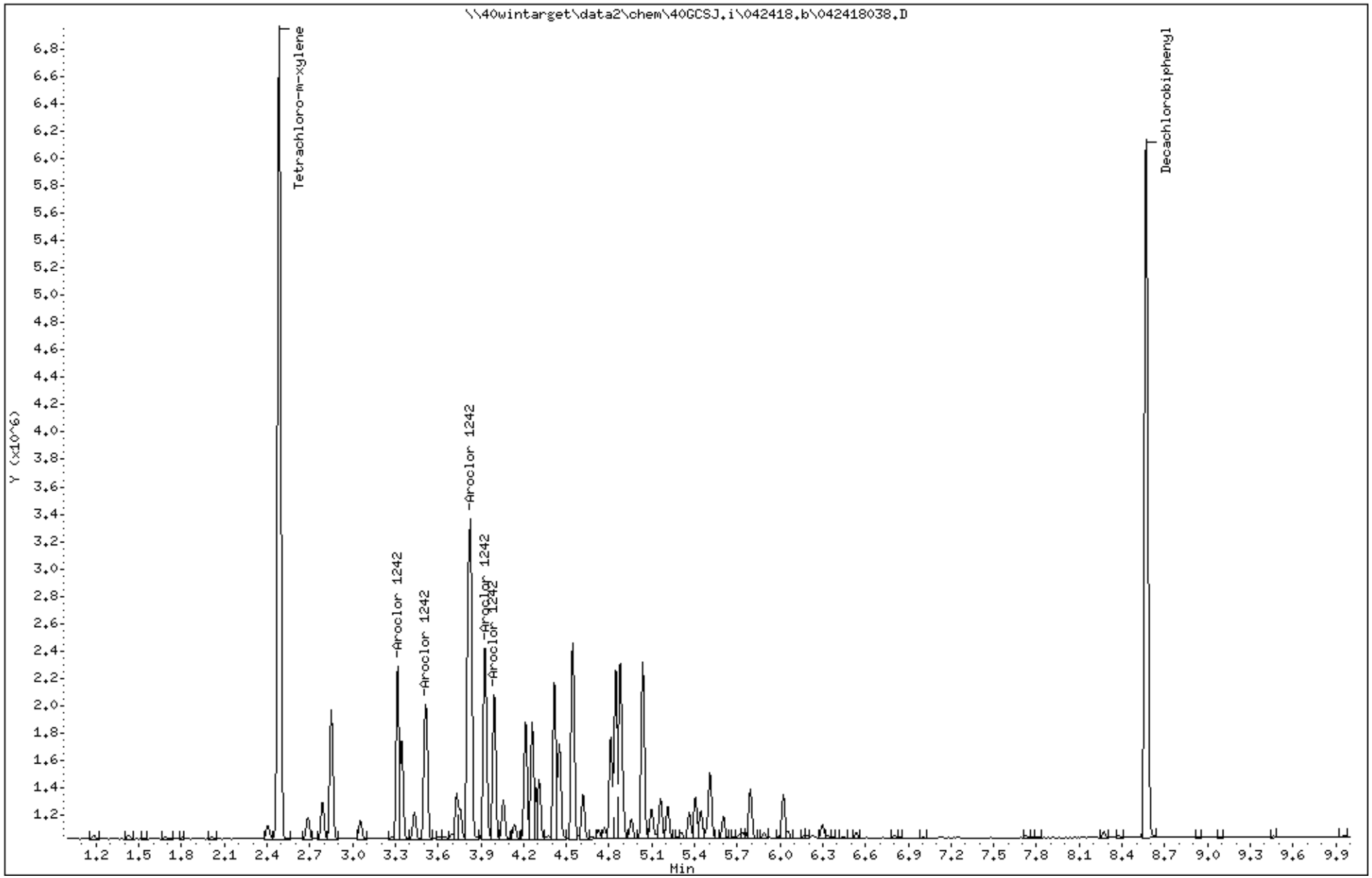
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

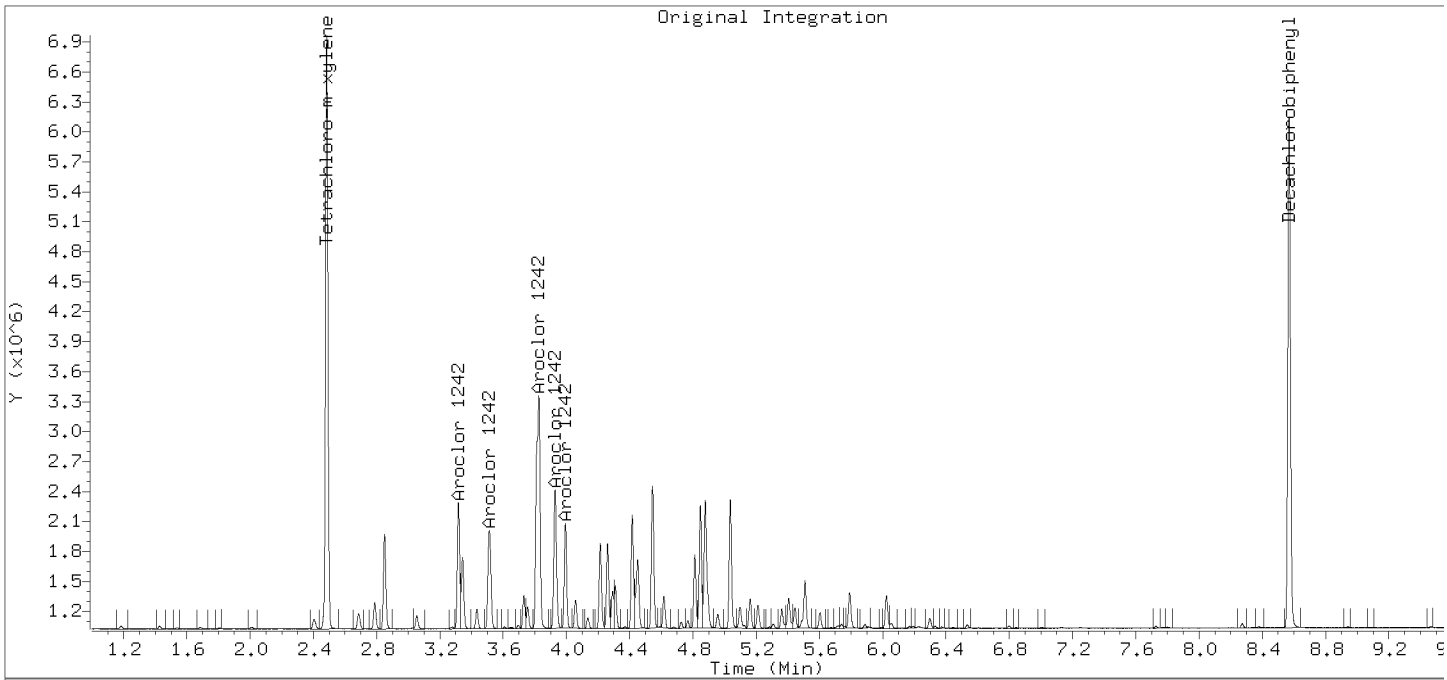
Operator: BLM

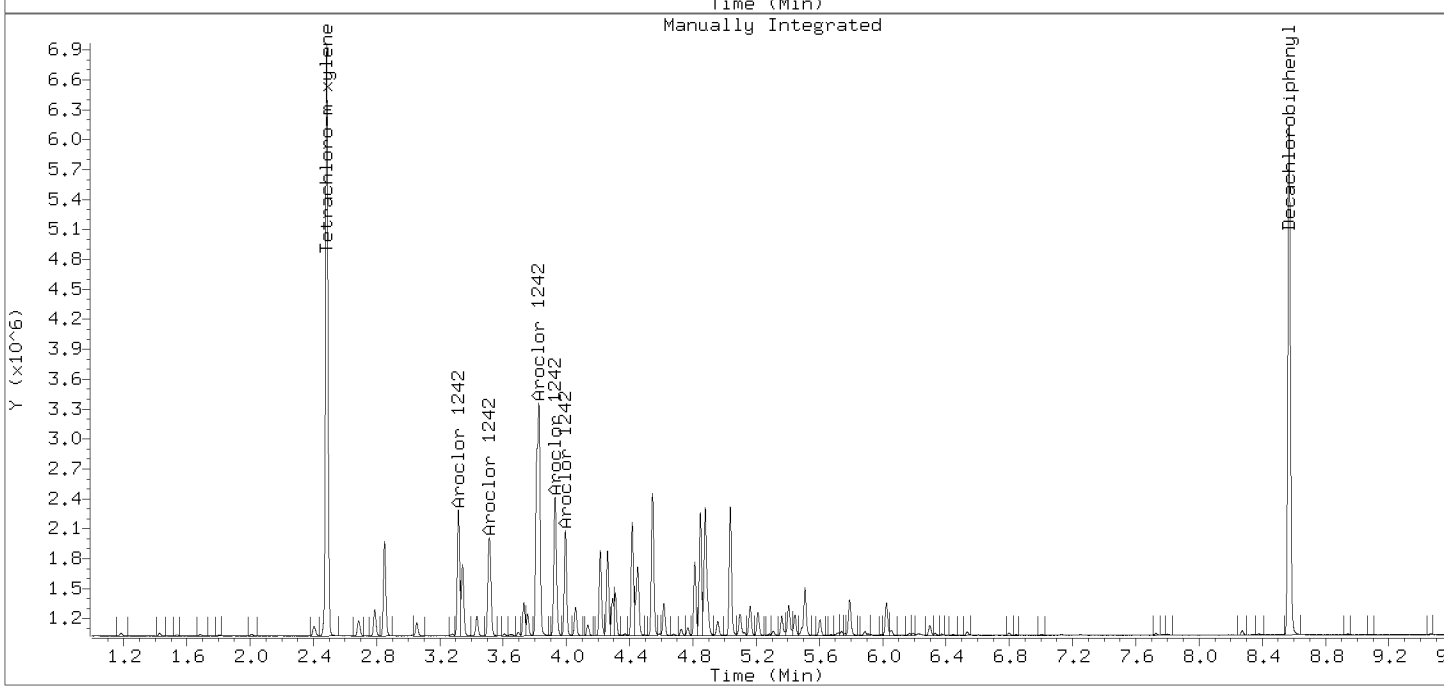
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418038.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 24-APR-2018 22:09 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1361133	1367377	BA
Aroclor 1242	1361133	1367377	BA
Aroclor 1242	1361133	1367377	BA
Aroclor 1242	1361133	1367377	BA
Aroclor 1242	1361133	1367377	BA
Tetrachloro-m-xylene	6288635	6288635	
Decachlorobiphenyl	5895843	5895843	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 25-APR-2018 14:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 26-Apr-2018 08:09 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	34024	23615	0.694	0.07		
1.433	38457	28518	0.742	0.08		
1.538	20503	14186	0.692	0.04		
1.693	23635	15338	0.649	0.04		
1.802	10118	7146	0.706	0.02		
2.010	15145	12232	0.808	0.03		
2.403	27884	19768	0.709	0.05		
2.485	6287339	5620152	0.894	13.80	$ 2 Tetrachloro-m-xylene	
2.690	36283	28310	0.780	0.07		
2.789	120020	109729	0.914	0.25		
2.851	198205	175376	0.885	0.41		
3.055	70255	57506	0.819	0.14		
3.318	756386	703101	0.930	1.59		
3.344	316780	290289	0.916	0.66		
3.434	67225	61921	0.921	0.14		
3.515	621105	451896	0.728	1.31		
3.609	23531	21075	0.896	0.04		
3.645	10153	8525	0.840	0.02		
3.694	10608	9721	0.916	0.02		
3.731	190389	136695	0.718	0.40		
3.814	1136879	1298242	1.142	2.40		
3.825	1384226	1360718	0.983	2.92		
3.930	955687	732178	0.766	2.02		
3.994	633325	601344	0.950	1.33		
4.058	367378	331788	0.903	0.77		
4.136	151701	139105	0.917	0.32		
4.215	1578510	1480916	0.938	3.33		
4.261	1265298	1188578	0.939	2.67	6 Aroclor 1248	BA
4.293	529541	534088	1.009	1.11		
4.309	550927	532522	0.967	1.16		
4.367	16324	10980	0.673	0.03		
4.417	1930073	1752137	0.908	4.08		
4.452	950438	838474	0.882	2.01		
4.545	2199334	1962436	0.892	4.65	6 Aroclor 1248	BA
4.591	38192	33555	0.879	0.08		
4.617	505393	474147	0.938	1.06		
4.681	32657	21232	0.650	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.725	66239	54272	0.819	0.14	
4.768	120572	112275	0.931	0.25	
4.813	1103352	1036996	0.940	2.33	6 Aroclor 1248
4.847	2108833	2004837	0.951	4.46	
4.879	2728754	1778508	0.652	5.77	6 Aroclor 1248
4.957	322099	264001	0.820	0.68	
5.037	1942506	1772466	0.912	4.10	6 Aroclor 1248
5.098	695932	540515	0.777	1.47	
5.163	828143	754672	0.911	1.75	
5.212	599940	529176	0.882	1.26	
5.282	40347	38138	0.945	0.08	
5.309	133653	109865	0.822	0.28	
5.363	522806	460904	0.882	1.10	
5.407	867414	750970	0.866	1.83	
5.445	537404	474997	0.884	1.13	
5.509	1464746	1175650	0.803	3.09	
5.604	410272	360696	0.879	0.86	
5.675	51207	41594	0.812	0.10	
5.715	84597	65522	0.775	0.17	
5.740	142061	92869	0.654	0.30	
5.792	990113	801352	0.809	2.09	
5.888	136791	81435	0.595	0.28	
5.992	31179	29953	0.961	0.06	
6.023	825581	713609	0.864	1.74	
6.055	178810	139473	0.780	0.37	
6.170	93302	57026	0.611	0.19	
6.224	62008	34017	0.549	0.13	
6.298	258220	212219	0.822	0.54	
6.333	51293	41598	0.811	0.10	
6.374	41169	30771	0.747	0.08	
6.510	47727	39489	0.827	0.10	
6.536	97363	73266	0.753	0.20	
6.607	18512	12114	0.654	0.03	
6.661	14933	10738	0.719	0.03	
6.719	41018	35242	0.859	0.08	
6.757	25404	19109	0.752	0.05	
6.803	45498	38910	0.855	0.09	
6.844	16962	11928	0.703	0.03	
6.943	11946	8012	0.671	0.02	
7.004	79944	71000	0.888	0.16	
7.123	23375	16034	0.686	0.04	
7.252	30850	26935	0.873	0.06	
7.390	34469	29632	0.860	0.07	
7.444	32787	30120	0.919	0.06	
7.690	15448	14481	0.937	0.03	
7.728	28825	24719	0.858	0.06	
7.769	9434	8649	0.917	0.01	
7.799	14178	14625	1.032	0.02	
7.900	29080	25021	0.860	0.06	
8.273	65187	54580	0.837	0.13	
8.378	20997	16022	0.763	0.04	
8.570	5871940	5016151	0.854	12.41	$ 12 Decachlorobiphenyl
8.940	20881	15234	0.730	0.04	
9.325	31583	12153	0.385	0.06	
9.444	10962	8063	0.736	0.02	
9.821	11608	9568	0.824	0.02	
9.845	18488	18594	1.006	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.873	70198	22333	0.318	0.14	
	47282872	41330637		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 25-APR-2018 14:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 26-Apr-2018 08:09 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 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	6287338	0.05000	0.051			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1265298	0.50000	0.54	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	2199333	0.50000	0.53	0.00- 20.00	173.82	BA
4.812	4.812	0.000	1103352	0.50000	0.54	0.00- 20.00	87.20	BA
4.878	4.879	-0.001	2728754	0.50000	0.54	0.00- 20.00	215.66	BA
5.036	5.038	-0.002	1942506	0.50000	0.54	0.00- 20.00	153.52	BA
Average of Peak Amounts =					0.53800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5871940	0.05000	0.054			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518004.D

Date : 25-APR-2018 14:10

Client ID: 1248-CCV

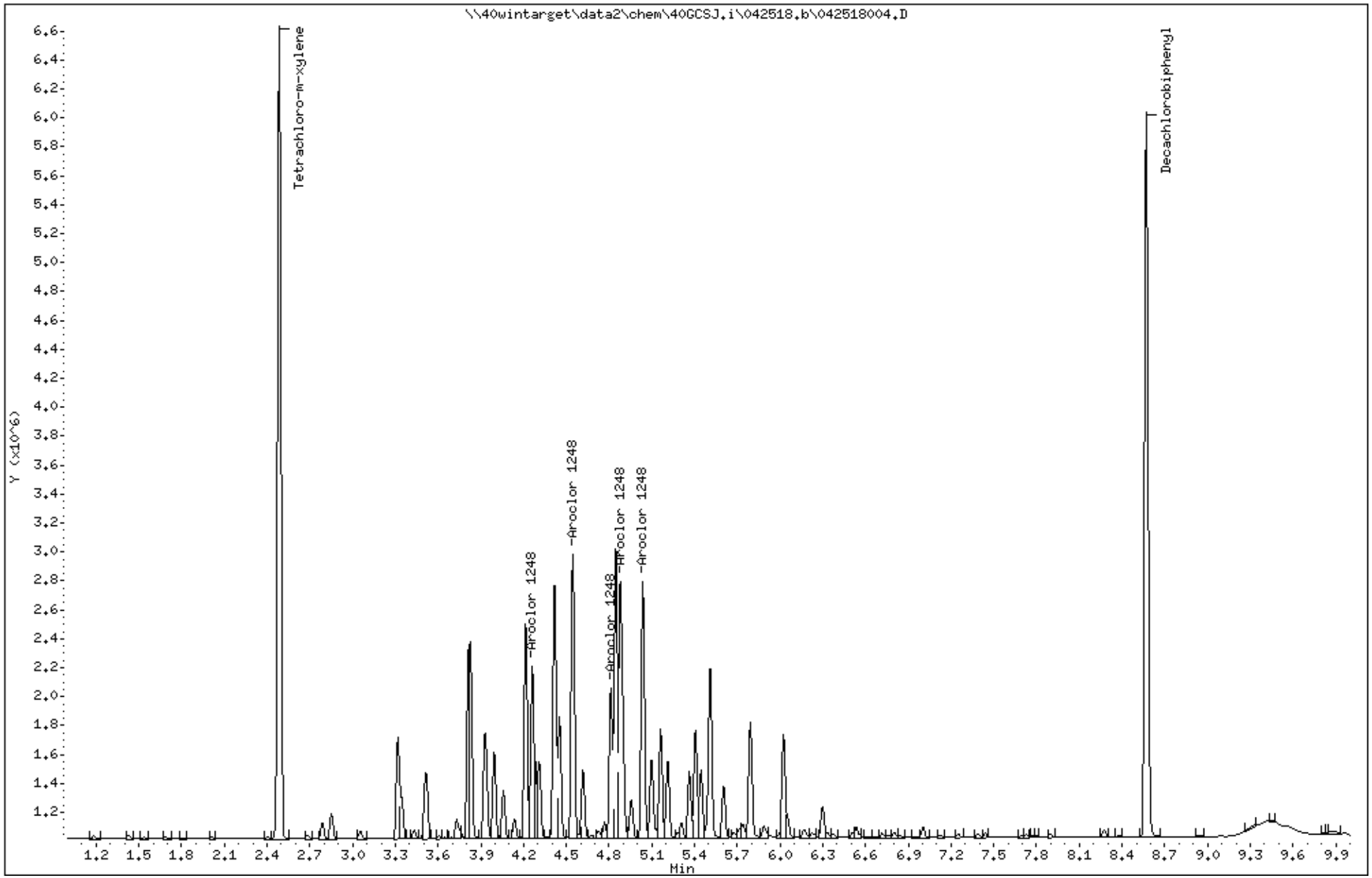
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

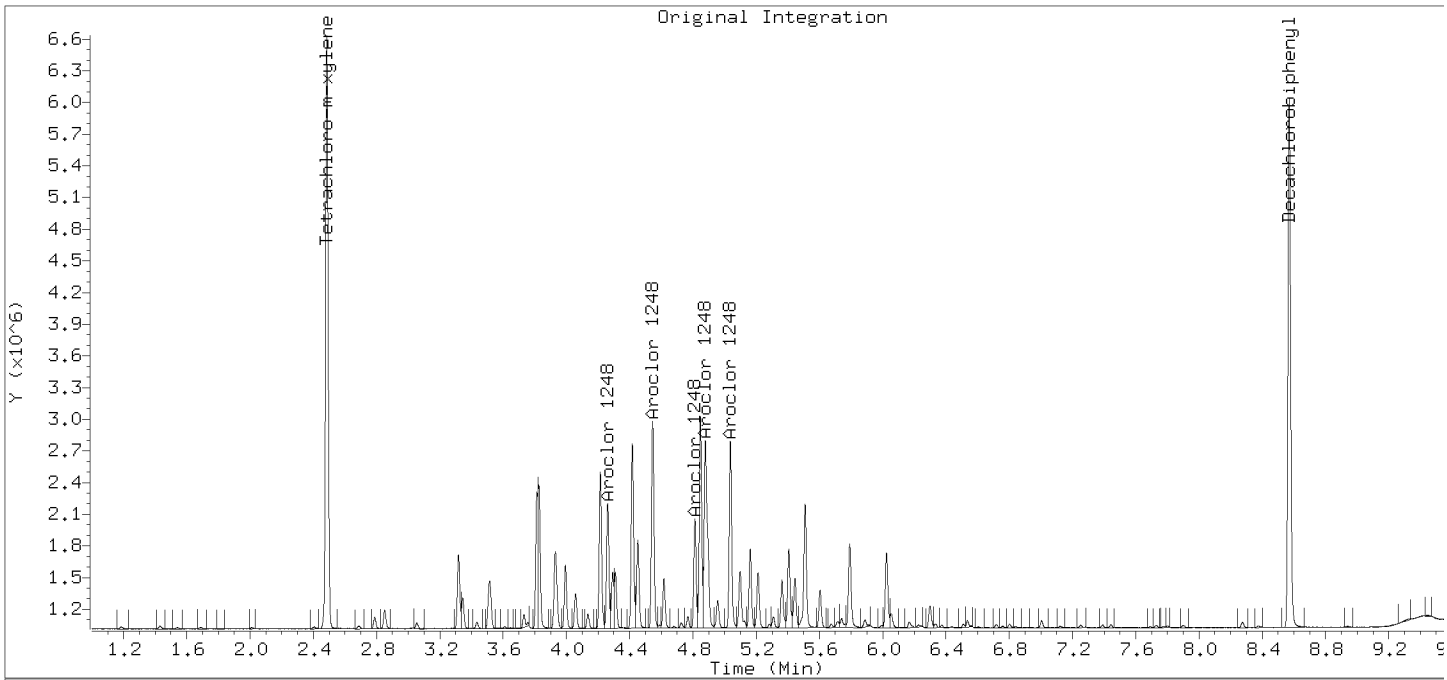
Operator: BLM

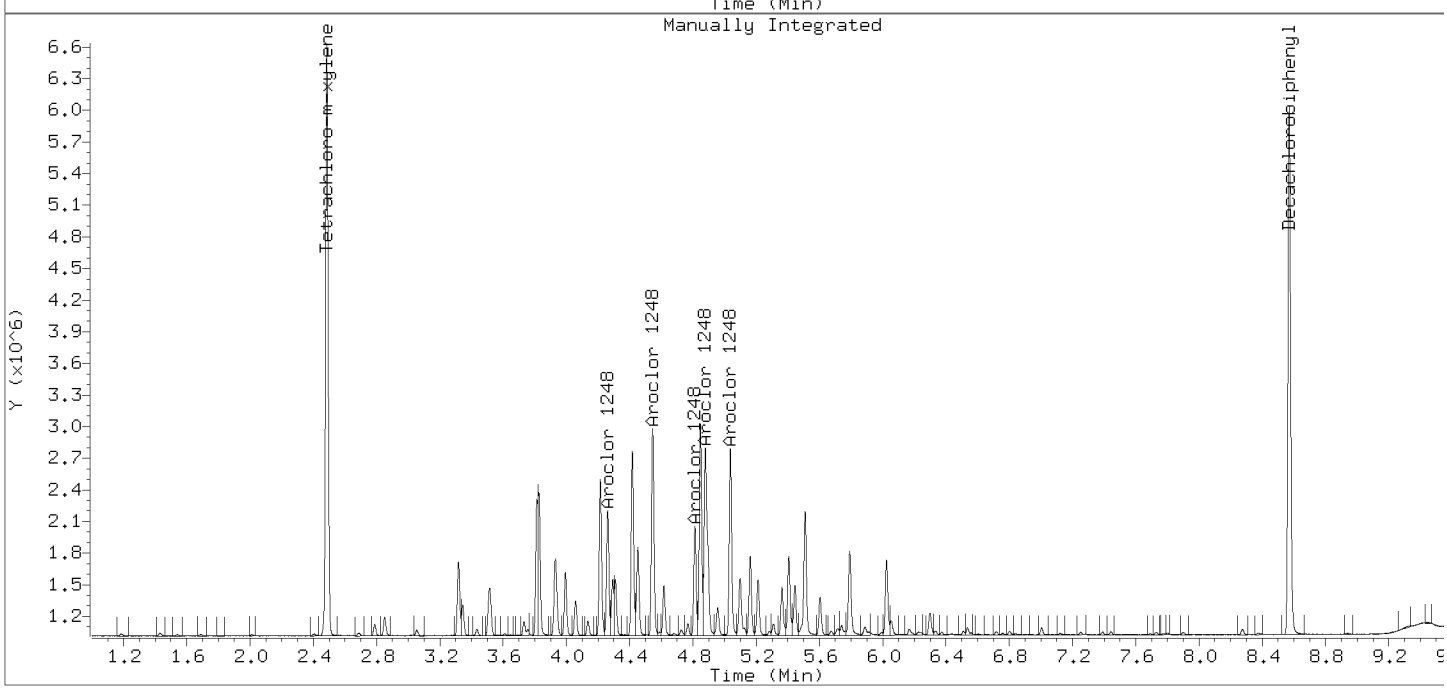
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b/042518004.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 25-APR-2018 14:10 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1257664	1265298	BA
Aroclor 1248	1257664	1265298	BA
Aroclor 1248	1257664	1265298	BA
Aroclor 1248	1257664	1265298	BA
Aroclor 1248	1257664	1265298	BA
Tetrachloro-m-xylene	6287338	6287338	
Decachlorobiphenyl	5871940	5871940	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 25-APR-2018 17:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 26-Apr-2018 08:09 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	36304	24569	0.677	0.06		
1.429	43172	29911	0.693	0.07		
1.540	19631	13456	0.685	0.03		
1.688	26198	17078	0.652	0.04		
2.009	25037	15316	0.612	0.04		
2.485	6384586	5808628	0.910	11.52	$ 2 Tetrachloro-m-xylene	
2.787	93242	84625	0.908	0.16		
2.850	28070	20092	0.716	0.04		
3.024	10327	10752	1.041	0.01		
3.053	21657	19040	0.879	0.03		
3.316	38320	28839	0.753	0.06		
3.515	32285	22741	0.704	0.05		
3.608	28766	22088	0.768	0.04		
3.730	9772	10436	1.068	0.01		
3.814	72561	49284	0.679	0.12		
3.935	66488	47191	0.710	0.11		
3.995	36263	30304	0.836	0.06		
4.053	30331	23327	0.769	0.05		
4.137	14120	9720	0.688	0.02		
4.214	1322051	1218699	0.922	2.29		
4.260	353192	333616	0.945	0.61		
4.292	62733	47352	0.755	0.10		
4.416	812424	757878	0.933	1.40		
4.452	87654	74836	0.854	0.15		
4.544	364472	341599	0.937	0.63		
4.591	19431	18501	0.952	0.03		
4.617	67845	61370	0.905	0.11		
4.680	20025	17549	0.876	0.03		
4.768	23983	22741	0.948	0.04		
4.813	312926	292759	0.936	0.54		
4.847	1209519	1130971	0.935	2.09		
4.894	2593361	2037498	0.786	4.49		
4.956	427008	376590	0.882	0.74		
5.037	262979	232882	0.886	0.45		
5.098	1522379	1317033	0.865	2.64		
5.161	2810033	2519004	0.896	4.87	7 Aroclor 1254	BA
5.211	1297947	1150451	0.886	2.25		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.283	66876	66543	0.995	0.11	
5.308	235311	218697	0.929	0.40	
5.361	1119765	1044055	0.932	1.94	
5.406	2332205	1998750	0.857	4.04	7 Aroclor 1254
5.444	806832	709075	0.879	1.39	
5.477	284323	281787	0.991	0.49	
5.510	4196807	3664352	0.873	7.28	7 Aroclor 1254
5.577	43787	37159	0.849	0.07	
5.604	590602	529182	0.896	1.02	
5.674	377952	344894	0.913	0.65	
5.711	590071	371928	0.630	1.02	
5.740	363840	300871	0.827	0.63	
5.789	4273509	3299200	0.772	7.41	
5.883	376805	288543	0.766	0.65	
5.927	210110	129957	0.619	0.36	
5.992	351158	328723	0.936	0.60	
6.026	2665933	2200279	0.825	4.62	7 Aroclor 1254
6.055	1956661	1581096	0.808	3.39	
6.168	771129	635633	0.824	1.33	
6.228	322418	322093	0.999	0.55	
6.239	347562	305167	0.878	0.60	
6.298	3572319	2941165	0.823	6.19	7 Aroclor 1254
6.333	639950	568909	0.889	1.11	
6.374	371074	295643	0.797	0.64	
6.439	95581	55600	0.582	0.16	
6.508	129706	134698	1.038	0.22	
6.534	1217206	911588	0.749	2.11	
6.605	173500	137124	0.790	0.30	
6.659	36313	26509	0.730	0.06	
6.717	229619	199790	0.870	0.39	
6.758	139747	124796	0.893	0.24	
6.801	668899	563783	0.843	1.16	
6.844	192185	122610	0.638	0.33	
6.942	68064	54469	0.800	0.11	
7.004	481000	418107	0.869	0.83	
7.127	18117	12360	0.682	0.03	
7.251	380593	344788	0.906	0.66	
7.282	80539	69884	0.868	0.13	
7.387	17674	17071	0.966	0.03	
7.441	39548	26448	0.669	0.06	
7.551	21646	16397	0.758	0.03	
7.692	15384	14479	0.941	0.02	
7.727	24611	21504	0.874	0.04	
7.777	10788	10513	0.975	0.01	
7.801	21238	16540	0.779	0.03	
7.900	24795	20207	0.815	0.04	
8.274	58000	47823	0.825	0.10	
8.375	17206	12824	0.745	0.02	
8.570	5974884	4919834	0.823	10.36	$ 12 Decachlorobiphenyl
8.941	18694	12077	0.646	0.03	
9.961	21763	12370	0.568	0.03	
	57631387	49026620		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 25-APR-2018 17:20
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17498,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042518.b\pcba030618.m
Meth Date : 26-Apr-2018 08:09 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 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	6384585	0.05000	0.052			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2810033	0.50000	0.54	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	2332204	0.50000	0.54	0.00- 20.00	83.00	BA
5.509	5.510	-0.001	4196807	0.50000	0.54	0.00- 20.00	149.35	BA
6.026	6.027	-0.001	2665933	0.50000	0.55	0.00- 20.00	94.87	BA
6.297	6.299	-0.002	3572318	0.50000	0.55	0.00- 20.00	127.13	BA
Average of Peak Amounts =					0.54400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5974884	0.05000	0.054			

QC Flag Legend

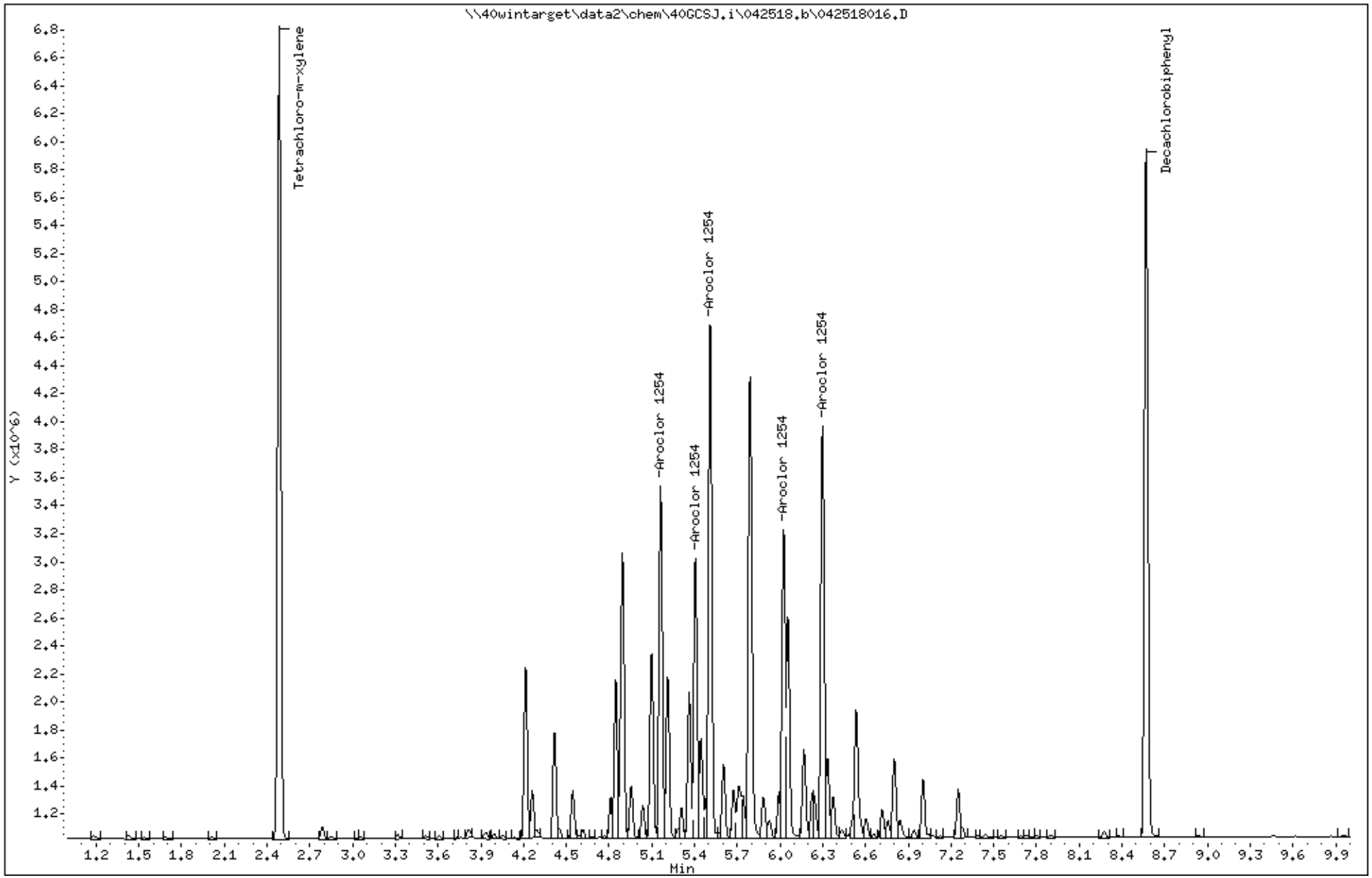
M - Compound response manually integrated.

Review Codes Legend

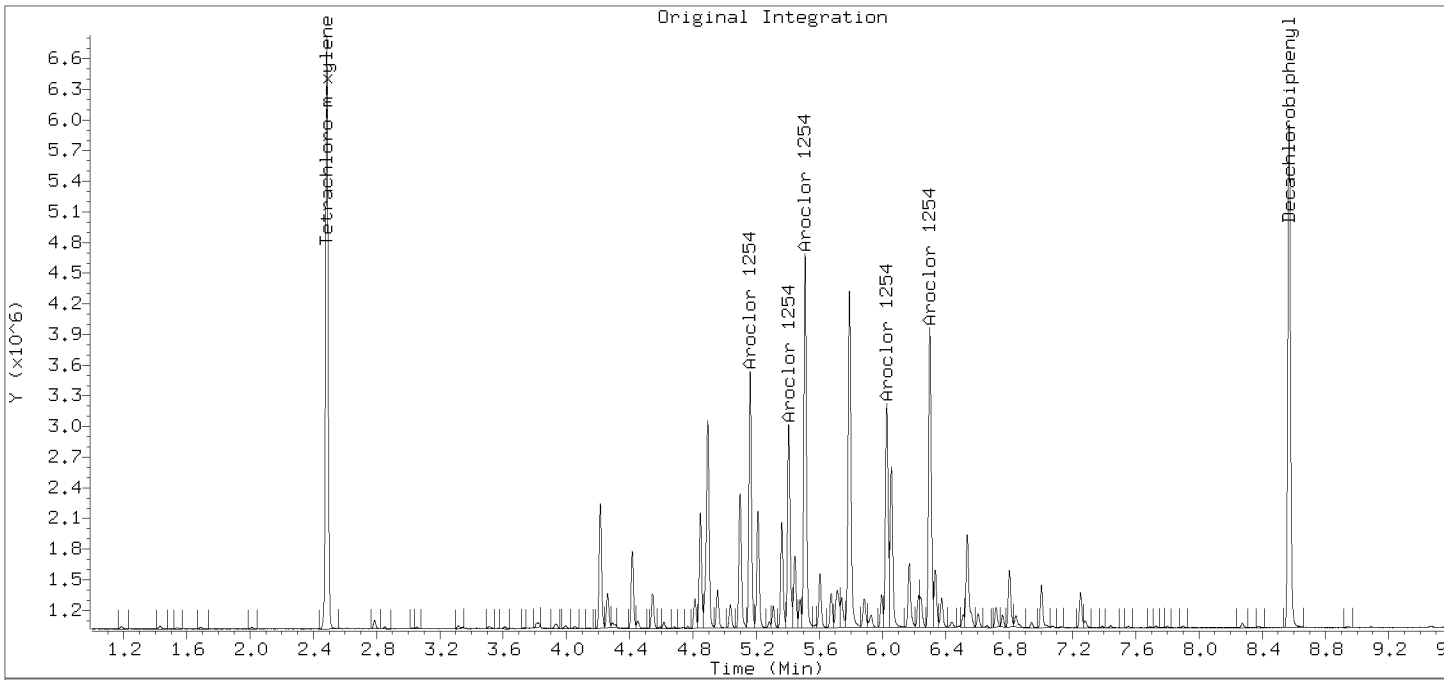
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

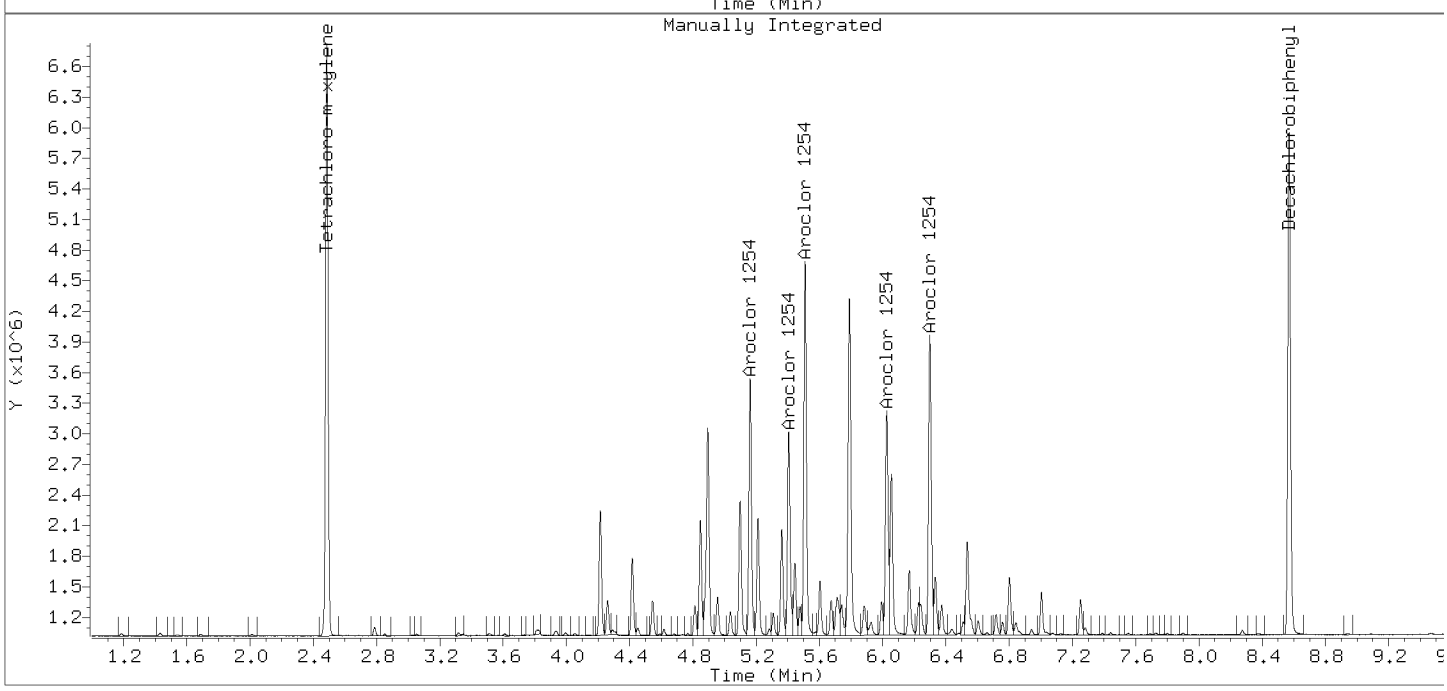
Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b\042518016.D
Date : 25-APR-2018 17:20
Client ID: 1254-CCV
Sample Info: 1254-CCV, 185554:1

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042518.b/042518016.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 25-APR-2018 17:20 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2795777	2810033	BA
Aroclor 1254	2795777	2810033	BA
Aroclor 1254	2795777	2810033	BA
Aroclor 1254	2795777	2810033	BA
Aroclor 1254	2795777	2810033	BA
Tetrachloro-m-xylene	6384585	6384585	
Decachlorobiphenyl	5974884	5974884	

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.: 40158010

Date Extracted: 04/23/2018 06:47

Lab Sample ID: 1677350

Date Analyzed: 04/24/2018 14:45

Lab File ID: 042418.B\042418010.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\042418.b\042418010.D
Lab Smp Id: 1677350 Client Smp ID: MB
Inj Date : 24-APR-2018 14:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677350,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	30633	20810	0.679	0.14		
1.429	18241	12286	0.674	0.08		
2.012	15637	12161	0.778	0.07		
2.485	9803003	9061699	0.924	46.72	$ 2 Tetrachloro-m-xylene	
2.790	18464	16206	0.878	0.08		
2.861	14962	11054	0.739	0.07		
7.122	21622	11699	0.541	0.10		
7.726	41628	35788	0.860	0.19		
7.800	34468	28297	0.821	0.16		
8.275	88784	77347	0.871	0.42		
8.376	27465	15572	0.567	0.13		
8.570	10853338	9337721	0.860	51.78	$ 12 Decachlorobiphenyl	
9.464	13905	9717	0.699	0.06		
	20982150	18650357		100.000		

Total unknown % area = 1.5

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418010.D
Lab Smp Id: 1677350 Client Smp ID: MB
Inj Date : 24-APR-2018 14:45
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677350,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

2.485	2.484	0.001	9803002	0.07951	40			

---

3 Aroclor 1242 CAS #: 53469-21-9

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

---

4 Aroclor 1232 CAS #: 1114-16-5

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

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

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

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7 Aroclor 1254 CAS #: 11097-69-1

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

---

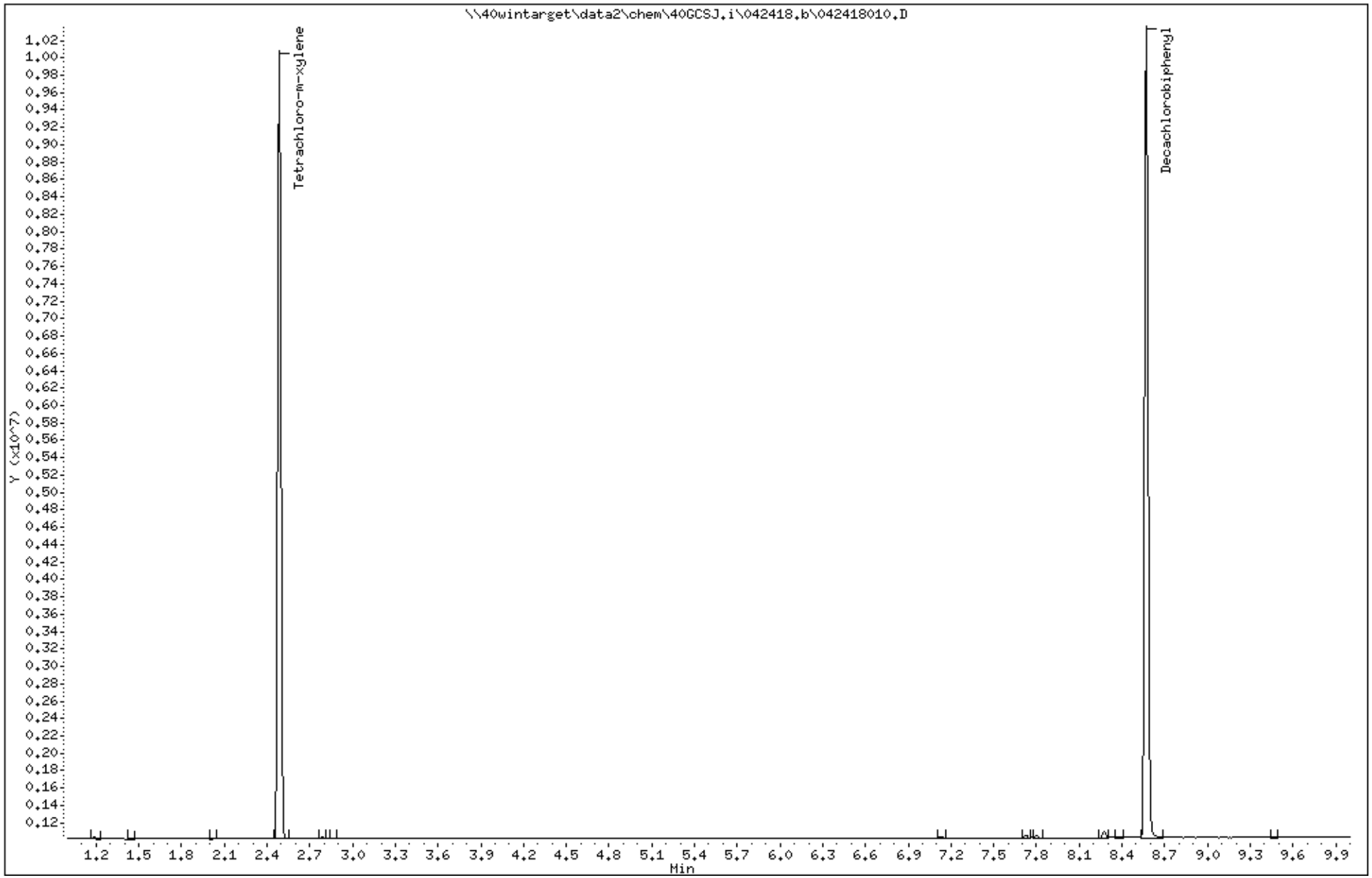
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	10853337	0.09906	50			

Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418010.D
Date : 24-APR-2018 14:45
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1677350,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418010.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 14:45 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1677350

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	9803002	9803002	
Decachlorobiphenyl	10853337	10853337	

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.: 40158010

Date Extracted: 04/23/2018 06:47

Lab Sample ID: 1677351

Date Analyzed: 04/24/2018 15:01

Lab File ID: 042418.B\042418011.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)	246	
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\042418.b\042418011.D
Lab Smp Id: 1677351 Client Smp ID: MBLCS
Inj Date : 24-APR-2018 15:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677351,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.688	12614	8720	0.691	0.02		
1.804	16267	13317	0.819	0.03		
2.201	26836	16302	0.607	0.05		
2.407	118765	88622	0.746	0.25		
2.485	10076289	9243874	0.917	21.42	$ 2 Tetrachloro-m-xylene	
2.687	178965	144815	0.809	0.38		
2.789	219841	195934	0.891	0.46		
2.850	972531	857386	0.882	2.06		
3.055	118918	109321	0.919	0.25		
3.278	25981	18818	0.724	0.05		
3.317	1227415	1114617	0.908	2.61	3 Aroclor 1242	BA
3.344	713544	648585	0.909	1.51		
3.435	193974	174752	0.901	0.41		
3.513	1220170	868430	0.712	2.59	3 Aroclor 1242	BA
3.645	25832	16261	0.629	0.05		
3.696	36646	35502	0.969	0.07		
3.731	315417	310868	0.986	0.67		
3.755	218619	199317	0.912	0.46		
3.826	3553088	2047775	0.576	7.55	3 Aroclor 1242	BA
3.929	1526340	1235096	0.809	3.24	3 Aroclor 1242	BA
3.994	1000948	919888	0.919	2.12	3 Aroclor 1242	BA
4.058	278363	245964	0.884	0.59		
4.135	112689	97860	0.868	0.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.214	821705	765530	0.932	1.74	
4.260	778262	735907	0.946	1.65	
4.292	314483	325745	1.036	0.66	
4.310	405431	357827	0.883	0.86	
4.370	28339	22088	0.779	0.06	
4.417	1092437	990640	0.907	2.32	
4.452	846947	602679	0.712	1.80	
4.545	1393313	1231975	0.884	2.96	
4.617	321837	287887	0.895	0.68	
4.678	22546	18770	0.833	0.04	
4.727	71820	58805	0.819	0.15	
4.768	78546	70185	0.894	0.16	
4.812	637681	614936	0.964	1.35	
4.847	1133615	1066943	0.941	2.41	
4.878	1454255	1059759	0.729	3.09	
4.957	154726	122180	0.790	0.32	
5.036	1195659	1079545	0.903	2.54	
5.099	247242	182521	0.738	0.52	
5.162	280673	250741	0.893	0.59	
5.211	205928	180791	0.878	0.43	
5.284	19866	17212	0.866	0.04	
5.308	51890	42430	0.818	0.11	
5.363	173638	148946	0.858	0.36	
5.405	300201	249508	0.831	0.63	
5.446	183419	162172	0.884	0.39	
5.509	488882	366683	0.750	1.03	
5.603	147591	120359	0.815	0.31	
5.673	17699	16147	0.912	0.03	
5.714	28658	23115	0.807	0.06	
5.740	51145	34473	0.674	0.10	
5.791	317005	249796	0.788	0.67	
5.887	47585	29359	0.617	0.10	
6.024	298881	220781	0.739	0.63	
6.169	29660	19258	0.649	0.06	
6.299	57960	53114	0.916	0.12	
6.375	10509	10325	0.982	0.02	
6.506	10656	10102	0.948	0.02	
6.536	26519	19124	0.721	0.05	
6.717	13300	10487	0.788	0.02	
6.802	11719	11624	0.992	0.02	
7.004	16867	14281	0.847	0.03	
7.120	22399	15540	0.694	0.04	
7.251	9297	8653	0.931	0.01	
7.388	10834	8335	0.769	0.02	
7.726	46076	39683	0.861	0.09	
7.801	31564	28496	0.903	0.06	
8.273	94896	83641	0.881	0.20	
8.377	18843	11986	0.636	0.04	
8.570	10801176	9062554	0.839	23.32	$ 12 Decachlorobiphenyl
9.459	10296	7978	0.775	0.02	
	47024528	39733640		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418011.D
Lab Smp Id: 1677351 Client Smp ID: MBLCS
Inj Date : 24-APR-2018 15:01
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677351,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	10076289	0.08172	41			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1227415	0.48453	240	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1220170	0.48419	240	0.00- 20.00	99.41	BA
3.826	3.827	-0.001	3553088	0.49928	250	0.00- 20.00	289.48	BA
3.928	3.929	-0.001	1526339	0.50183	250	0.00- 20.00	124.35	BA
3.993	3.995	-0.002	1000947	0.48880	240	0.00- 20.00	81.55	BA
Average of Peak Concentrations =					240			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.570	8.571	-0.001	10801176	0.09859		49

QC Flag Legend

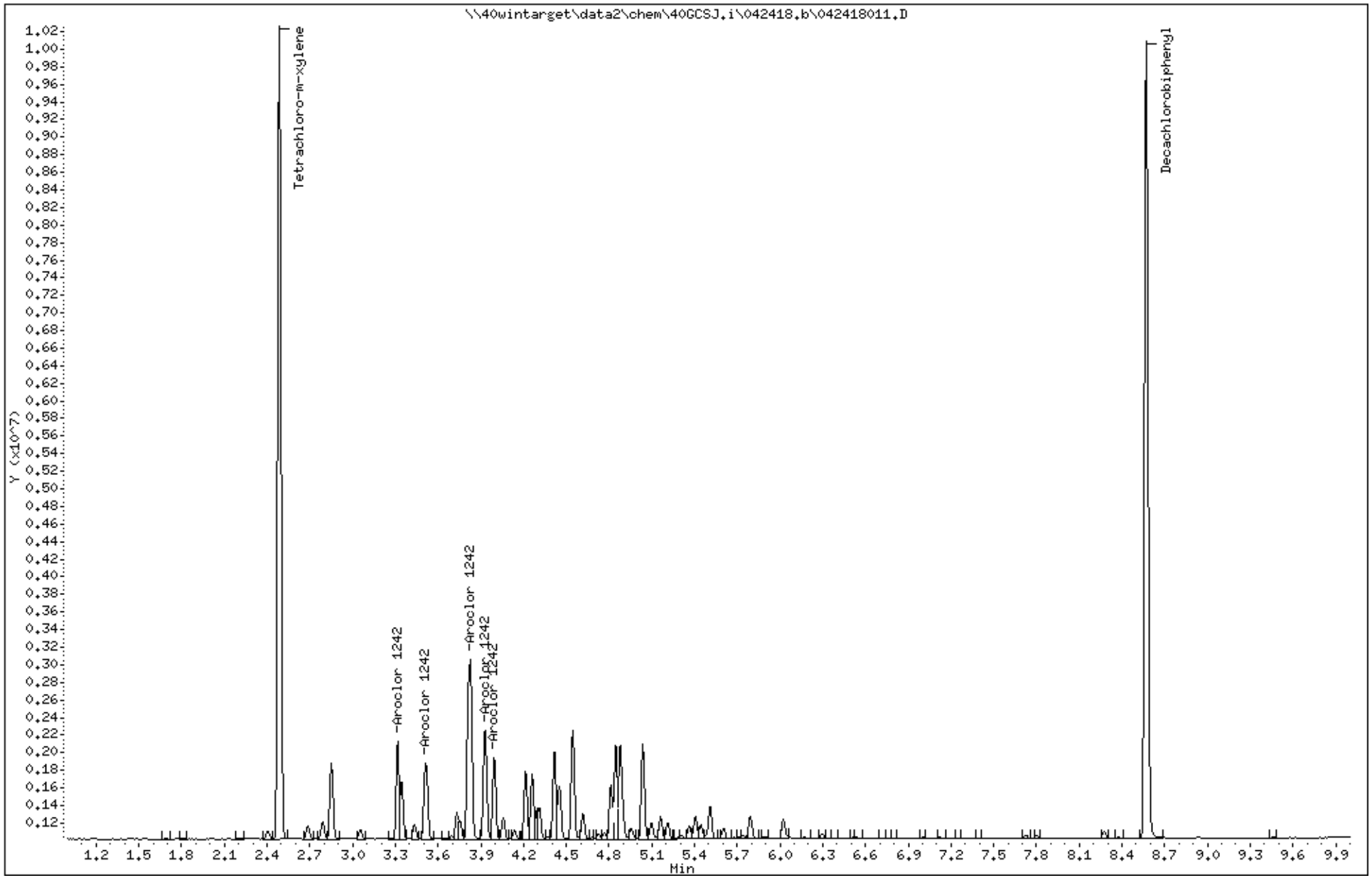
M - Compound response manually integrated.

Review Codes Legend

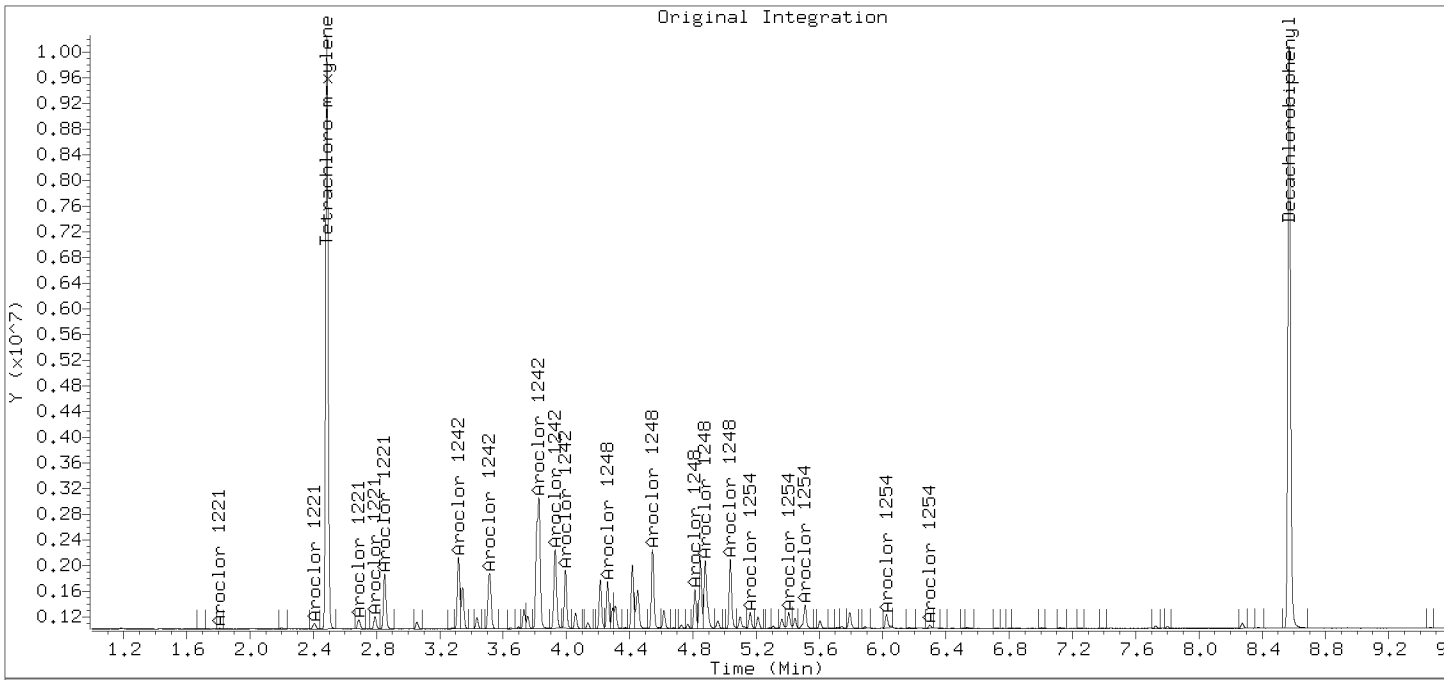
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

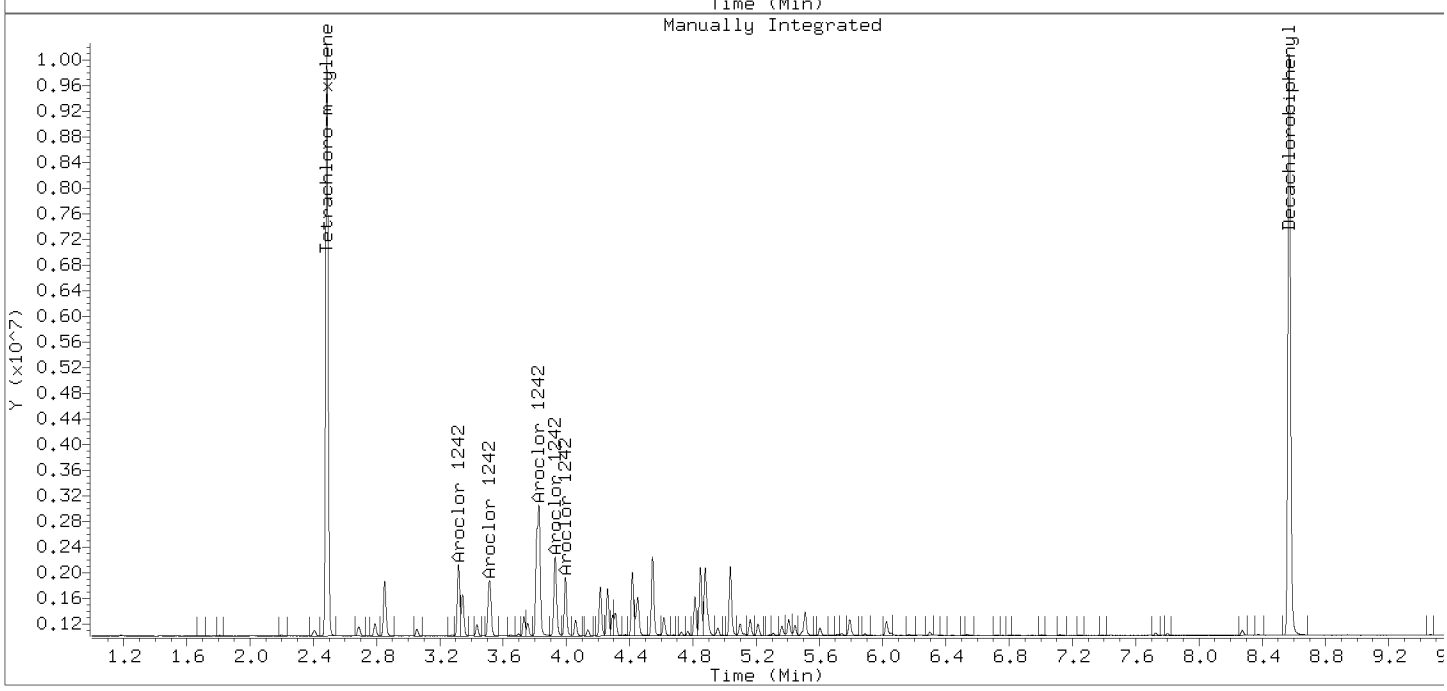
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418011.D
Date : 24-APR-2018 15:01
Client ID: MBLCS
Sample Info: 1677351,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 15:01 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1677351





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1214280	0	
Aroclor 1016	1214280	0	
Aroclor 1016	1214280	0	
Aroclor 1016	1214280	0	
Aroclor 1016	1214280	0	
Aroclor 1221	16267	0	
Aroclor 1221	16267	0	
Aroclor 1221	16267	0	
Aroclor 1221	16267	0	
Aroclor 1221	16267	0	
Aroclor 1232	972530	0	
Aroclor 1232	972530	0	
Aroclor 1232	972530	0	
Aroclor 1232	972530	0	

Aroclor 1232	972530	0	
Aroclor 1242	1214280	1227415	BA
Aroclor 1242	1214280	1227415	BA
Aroclor 1242	1214280	1227415	BA
Aroclor 1242	1214280	1227415	BA
Aroclor 1242	1214280	1227415	BA
Aroclor 1248	771703	0	
Aroclor 1248	771703	0	
Aroclor 1248	771703	0	
Aroclor 1248	771703	0	
Aroclor 1248	771703	0	
Aroclor 1254	268182	0	
Aroclor 1254	268182	0	
Aroclor 1254	268182	0	
Aroclor 1254	268182	0	
Aroclor 1254	268182	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10076289	10076289	
Decachlorobiphenyl	10801176	10801176	

==========

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: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158010
Date Extracted: 04/23/2018 06:47
Lab Sample ID: 1677352
Date Analyzed: 04/24/2018 21:37
Lab File ID: 042418.B\042418036.D
Initial wt/vol: 4.9986 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)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	469	
12672-29-6	PCB-1248 (Aroclor 1248)	319	
11097-69-1	PCB-1254 (Aroclor 1254)	66.0	J
11096-82-5	PCB-1260 (Aroclor 1260)	<22.8	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418036.D
Lab Smp Id: 1677352 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 21:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677352,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	4.999	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.159	13580	10880	0.801	0.02		
1.183	18124	14520	0.801	0.03		
1.329	15356	8850	0.576	0.03		
1.429	17031	11255	0.661	0.03		
1.685	20098	15802	0.786	0.04		
1.803	19564	18698	0.956	0.04		
1.831	11915	11662	0.979	0.02		
1.893	10497	8188	0.780	0.02		
2.060	9527	7376	0.774	0.01		
2.169	12868	14674	1.140	0.02		
2.198	29825	18850	0.632	0.06		
2.291	39548	37340	0.944	0.08		
2.315	19415	19249	0.991	0.03		
2.406	129127	99389	0.770	0.26		
2.484	10073591	9361171	0.929	21.20	$ 2 Tetrachloro-m-xylene	
2.686	169900	134203	0.790	0.34		
2.789	211380	191176	0.904	0.43		
2.850	932582	838495	0.899	1.90		
2.975	50366	23008	0.457	0.10		
3.020	22239	20019	0.900	0.04		
3.055	118394	105095	0.888	0.24		
3.275	24989	19000	0.760	0.05		
3.317	1185836	1077045	0.908	2.42	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.343	654876	609241	0.930	1.34	
3.398	23502	18633	0.793	0.04	
3.433	190346	169607	0.891	0.38	
3.512	1154181	836274	0.725	2.36	3 Aroclor 1242
3.645	25828	14447	0.559	0.05	
3.695	42496	41257	0.971	0.08	
3.731	301933	293751	0.973	0.61	
3.755	192595	187156	0.972	0.39	
3.825	3375143	1981008	0.587	6.90	3 Aroclor 1242
3.927	1435880	1196416	0.833	2.93	3 Aroclor 1242
3.992	966302	917060	0.949	1.97	3 Aroclor 1242
4.057	250411	235561	0.941	0.51	
4.135	101526	92282	0.909	0.20	
4.214	803730	731691	0.910	1.64	
4.260	755307	716362	0.948	1.54	6 Aroclor 1248
4.291	301846	315805	1.046	0.61	
4.309	375681	334276	0.890	0.76	
4.370	34338	22638	0.659	0.07	
4.416	1019132	977612	0.959	2.08	
4.451	813834	572316	0.703	1.66	
4.505	49163	28271	0.575	0.10	
4.545	1329700	1218231	0.916	2.72	6 Aroclor 1248
4.587	19789	27322	1.381	0.04	
4.616	320532	276530	0.863	0.65	
4.678	25932	20666	0.797	0.05	
4.725	73644	59672	0.810	0.15	
4.766	268702	249630	0.929	0.55	
4.811	651529	629406	0.966	1.33	6 Aroclor 1248
4.846	1114967	1039629	0.932	2.28	
4.877	1446698	1093729	0.756	2.96	6 Aroclor 1248
4.956	154065	120785	0.784	0.31	
5.035	1225713	1113889	0.909	2.50	6 Aroclor 1248
5.098	238141	202728	0.851	0.48	
5.121	80775	78280	0.969	0.16	
5.161	373461	326062	0.873	0.76	7 Aroclor 1254
5.211	259625	234185	0.902	0.53	
5.281	26738	25477	0.953	0.05	
5.311	128121	103291	0.806	0.26	
5.362	205105	159250	0.776	0.41	
5.406	315221	269428	0.855	0.64	7 Aroclor 1254
5.448	495197	417880	0.844	1.01	
5.489	64911	80639	1.242	0.13	
5.508	509775	447043	0.877	1.04	7 Aroclor 1254
5.602	155723	135935	0.873	0.31	
5.674	61736	56888	0.921	0.12	
5.716	48661	34941	0.718	0.09	
5.738	60211	49790	0.827	0.12	
5.789	488292	412310	0.844	0.99	
5.839	247821	195952	0.791	0.50	
5.885	85002	39080	0.460	0.17	
5.993	51027	50517	0.990	0.10	
6.023	343136	296294	0.863	0.70	7 Aroclor 1254
6.055	234851	197815	0.842	0.48	
6.119	34709	22709	0.654	0.07	
6.169	101060	49162	0.486	0.20	
6.228	21200	24073	1.136	0.04	
6.243	41819	31310	0.749	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.298	321155	271508	0.845	0.65	7 Aroclor 1254
6.333	52787	39360	0.746	0.10	
6.373	26237	18848	0.718	0.05	
6.431	43657	24521	0.562	0.08	
6.509	125041	114906	0.919	0.25	
6.534	77000	64932	0.843	0.15	
6.560	49946	39434	0.790	0.10	
6.610	15241	12065	0.792	0.03	
6.658	24447	16685	0.682	0.05	
6.716	76922	58309	0.758	0.15	
6.758	62267	47102	0.756	0.12	
6.801	74006	53686	0.725	0.15	
6.840	31886	23170	0.727	0.06	
6.941	72045	59203	0.822	0.14	
7.003	113033	95276	0.843	0.23	8 Aroclor 1260
7.036	10821	14407	1.331	0.02	
7.088	83939	41318	0.492	0.17	
7.250	70478	60117	0.853	0.14	8 Aroclor 1260
7.282	60608	33556	0.554	0.12	
7.339	39622	22326	0.563	0.08	
7.388	45407	38166	0.841	0.09	
7.442	62640	43514	0.695	0.12	8 Aroclor 1260
7.486	35226	19802	0.562	0.07	
7.577	14965	12698	0.848	0.03	
7.621	26642	17237	0.647	0.05	
7.694	24097	19689	0.817	0.04	
7.726	45722	31206	0.683	0.09	
7.760	26932	19523	0.725	0.05	
7.808	27702	17362	0.627	0.05	
7.897	32502	25701	0.791	0.06	8 Aroclor 1260
7.954	29514	19149	0.649	0.06	
8.046	36673	29321	0.800	0.07	
8.272	81130	73788	0.910	0.16	
8.374	34903	30095	0.862	0.07	
8.449	18384	16480	0.896	0.03	
8.483	10531	12836	1.219	0.02	
8.569	9250358	8045195	0.870	18.93	$ 12 Decachlorobiphenyl
8.717	14458	9776	0.676	0.02	
9.167	246946	223888	0.907	0.50	
9.480	23945	14595	0.610	0.04	
	48847205	41978887		100.000	

Total unknown % area = 28

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418036.D
Lab Smp Id: 1677352 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 21:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677352,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	4.999	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	10073591	0.08170	82			
3 Aroclor 1242					CAS #: 53469-21-9			
3.316	3.318	-0.002	1185836	0.46812	470	0.00- 20.00	100.00(M)	BA
3.511	3.513	-0.002	1154180	0.45800	460	0.00- 20.00	97.33	BA
3.825	3.827	-0.002	3375143	0.47427	470	0.00- 20.00	284.62	BA
3.927	3.929	-0.002	1435880	0.47209	470	0.00- 20.00	121.09	BA
3.992	3.995	-0.003	966302	0.47189	470	0.00- 20.00	81.49	BA
Average of Peak Concentrations =					470			

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	755307	0.32237	320	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1329700	0.32039	320	0.00- 20.00	176.05	BA
4.811	4.812	-0.001	651529	0.32094	320	0.00- 20.00	86.26	BA
4.876	4.879	-0.003	1446698	0.28719	290	0.00- 20.00	191.54	BA
5.035	5.038	-0.003	1225712	0.34156	340	0.00- 20.00	162.28	BA
Average of Peak Concentrations =					320			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	373461	0.07134	71	0.00- 20.00	100.00(M)	CO
5.406	5.408	-0.002	315221	0.07329	73	0.00- 20.00	84.41	CO
5.508	5.510	-0.002	509774	0.06564	66	0.00- 20.00	136.50	CO
6.022	6.027	-0.005	343136	0.07046	70	0.00- 20.00	91.88	CO
6.298	6.299	-0.001	321154	0.04935	49	0.00- 20.00	85.99	CO
Average of Peak Concentrations =					66			
8 Aroclor 1260					CAS #: 11096-82-5			
Compound Not Detected.								CO
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	9250357	0.08443	84			

QC Flag Legend

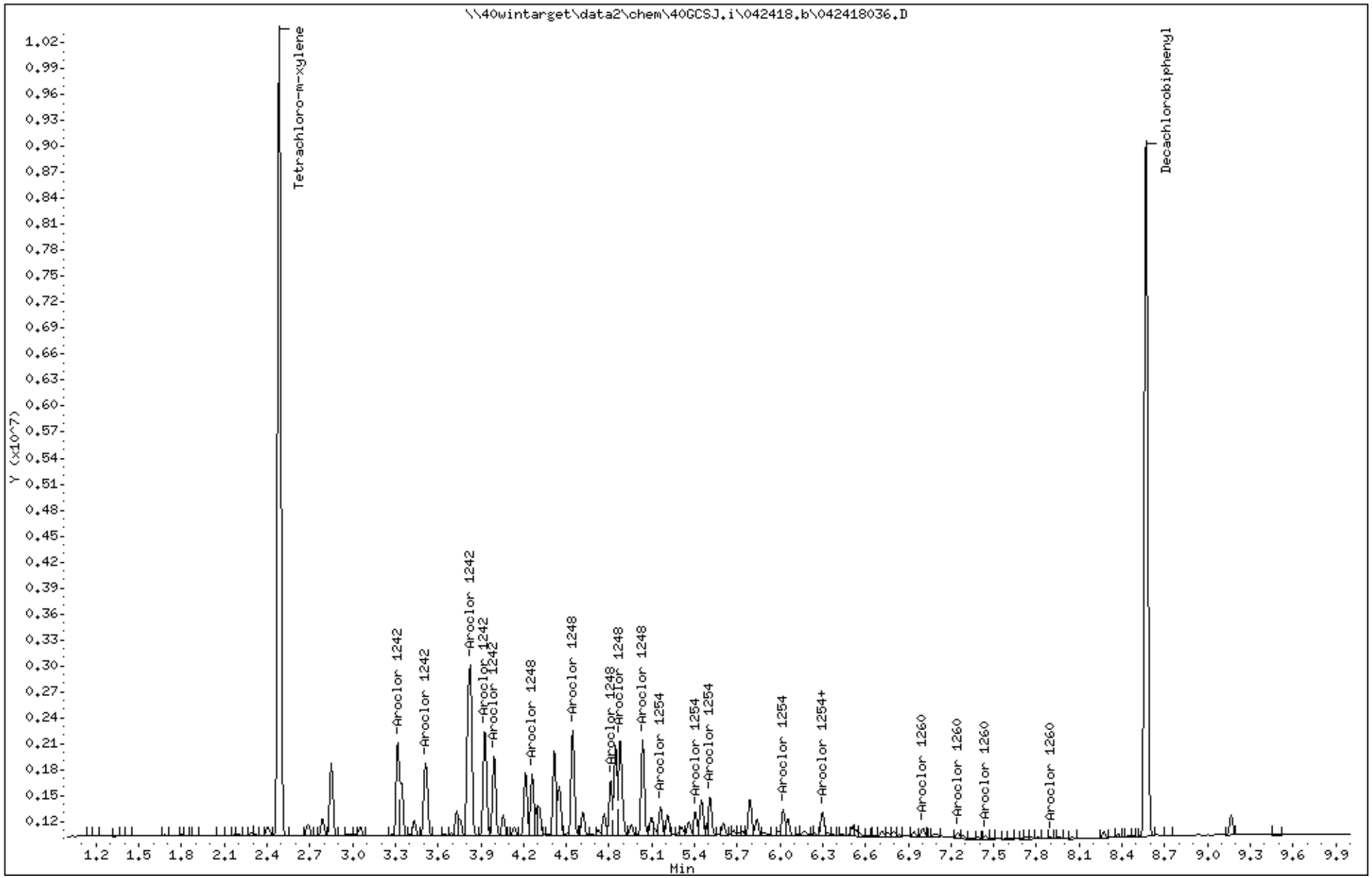
M - Compound response manually integrated.

Review Codes Legend

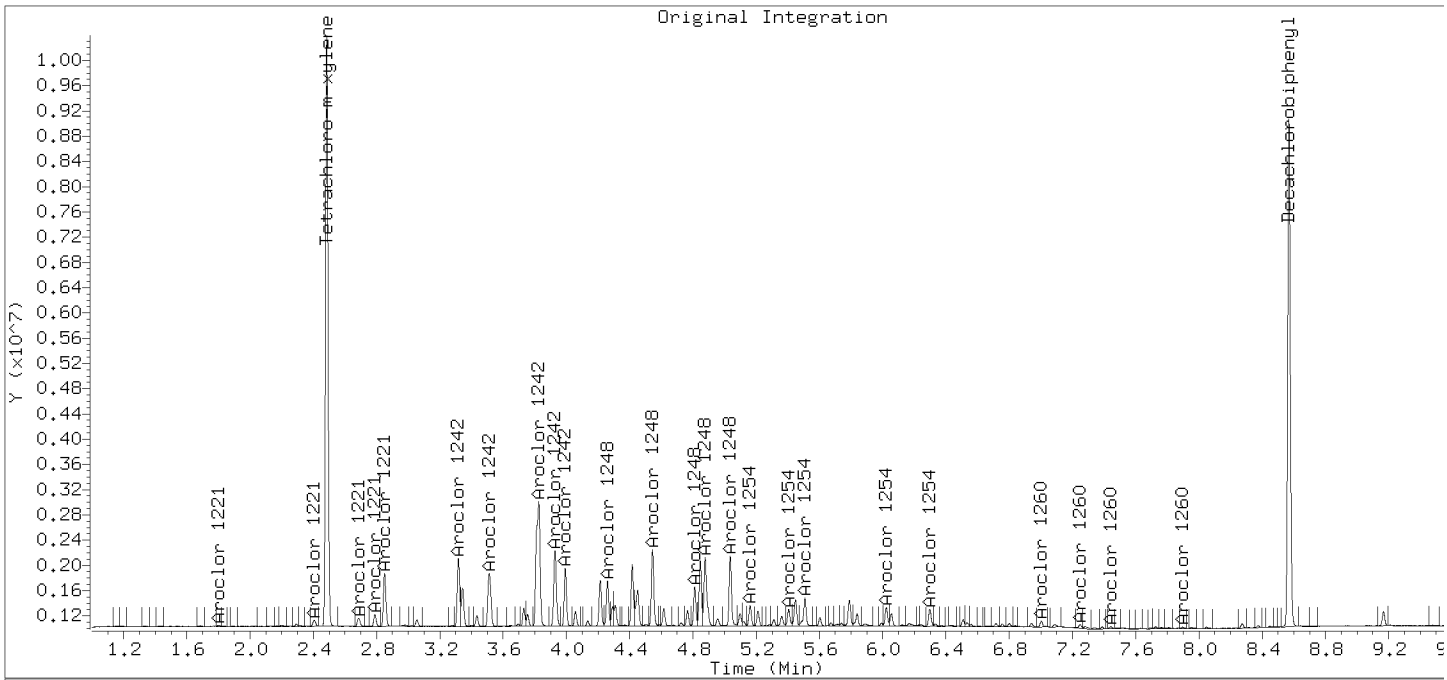
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

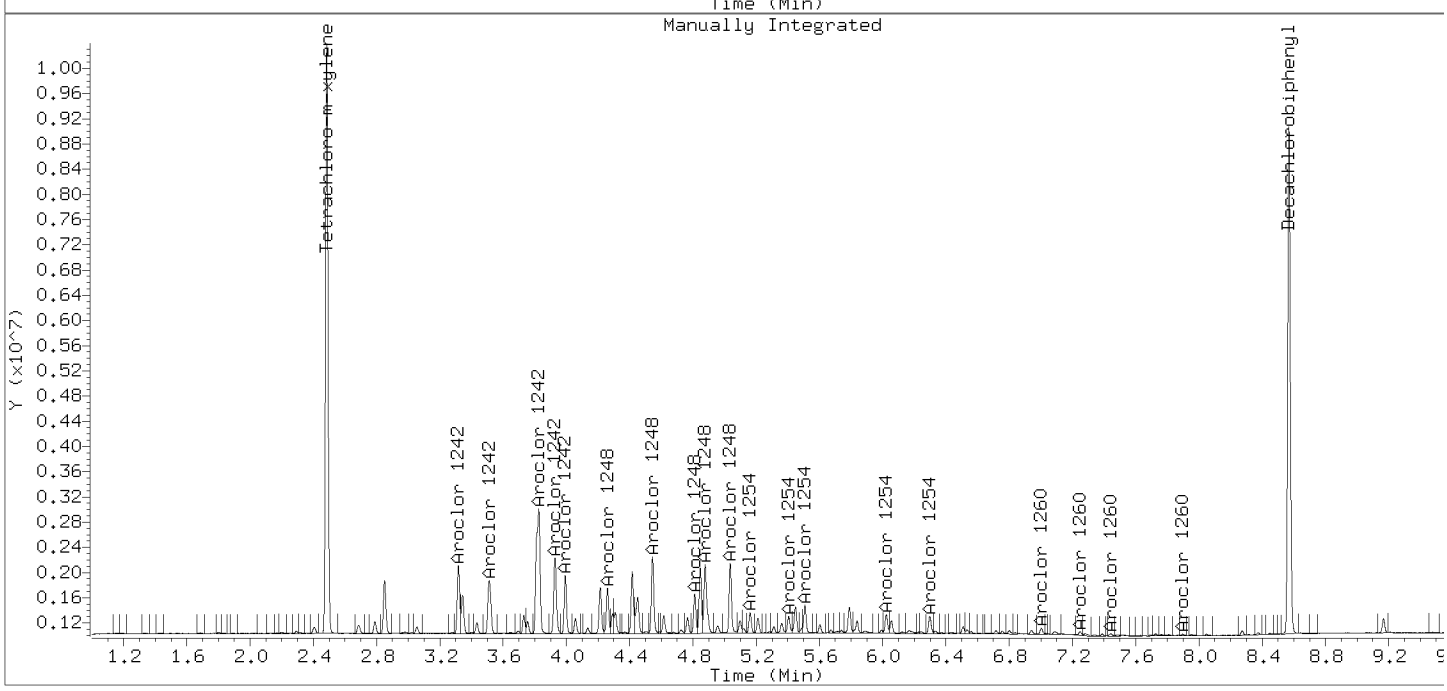
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418036.D
Date : 24-APR-2018 21:37
Client ID: FD1-170829-01-PKSD-
Sample Info: 1677352,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418036.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 21:37 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1677352





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1180966	0	
Aroclor 1016	1180966	0	
Aroclor 1016	1180966	0	
Aroclor 1016	1180966	0	
Aroclor 1016	1180966	0	
Aroclor 1221	19563	0	
Aroclor 1221	19563	0	
Aroclor 1221	19563	0	
Aroclor 1221	19563	0	
Aroclor 1221	19563	0	
Aroclor 1232	926289	0	
Aroclor 1232	926289	0	
Aroclor 1232	926289	0	
Aroclor 1232	926289	0	

Aroclor 1232	926289	0	
Aroclor 1242	1180966	1185836	BA
Aroclor 1242	1180966	1185836	BA
Aroclor 1242	1180966	1185836	BA
Aroclor 1242	1180966	1185836	BA
Aroclor 1242	1180966	1185836	BA
Aroclor 1248	740684	755307	BA
Aroclor 1248	740684	755307	BA
Aroclor 1248	740684	755307	BA
Aroclor 1248	740684	755307	BA
Aroclor 1248	740684	755307	BA
Aroclor 1254	355697	373461	CO
Aroclor 1254	355697	373461	CO
Aroclor 1254	355697	373461	CO
Aroclor 1254	355697	373461	CO
Aroclor 1254	355697	373461	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Aroclor 1260	0	0	CO
Tetrachloro-m-xylene	10073591	10073591	
Decachlorobiphenyl	9250357	9250357	

==========

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: 10/05/2017 09:40

Matrix: Tissue SDG No.: 40158010

Date Extracted: 04/23/2018 06:47

Lab Sample ID: 1677353

Date Analyzed: 04/24/2018 21:53

Lab File ID: 042418.B\042418037.D

Initial wt/vol: 5.0355 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)	<22.6	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.6	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	23.5	J
11097-69-1	PCB-1254 (Aroclor 1254)	29.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	<22.6	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418037.D
Lab Smp Id: 1677353 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 21:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677353,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	5.035	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.026	13715	9401	0.685	0.04		
1.161	16308	12579	0.771	0.05		
1.332	9811	9248	0.943	0.03		
1.428	25105	16810	0.670	0.08		
1.540	10973	8749	0.797	0.03		
1.689	34702	24370	0.702	0.12		
1.772	21531	21028	0.977	0.07		
1.799	24625	20660	0.839	0.08		
1.831	24694	18930	0.767	0.08		
1.891	11501	11246	0.978	0.04		
2.128	17130	10327	0.603	0.05		
2.173	16028	15806	0.986	0.05		
2.197	38552	24060	0.624	0.13		
2.295	24391	23225	0.952	0.08		
2.319	29104	25103	0.863	0.10		
2.408	36785	31676	0.861	0.12		
2.485	11374596	10442906	0.918	40.25	$ 2 Tetrachloro-m-xylene	
2.618	15204	8877	0.584	0.05		
2.787	19914	16594	0.833	0.06		
2.857	21271	14592	0.686	0.07		
2.978	63940	26635	0.417	0.22		
3.021	19638	19836	1.010	0.06		
3.315	11354	9740	0.858	0.03	5 Aroclor 1016	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.400	13574	11527	0.849	0.04	
3.829	67864	43027	0.634	0.23	5 Aroclor 1016
3.925	16054	12858	0.801	0.05	5 Aroclor 1016
3.995	26300	16000	0.608	0.09	5 Aroclor 1016
4.214	65973	51699	0.784	0.23	
4.239	10883	16117	1.481	0.03	
4.262	54336	52950	0.975	0.18	6 Aroclor 1248
4.294	42879	34553	0.806	0.14	
4.418	31271	26340	0.842	0.10	
4.453	31839	22887	0.719	0.11	
4.507	64197	49164	0.766	0.22	
4.547	75108	54671	0.728	0.26	6 Aroclor 1248
4.767	121306	109122	0.900	0.42	
4.813	58737	51142	0.871	0.20	6 Aroclor 1248
4.847	78752	70345	0.893	0.27	
4.878	167490	102220	0.610	0.58	6 Aroclor 1248
4.956	27683	18962	0.685	0.09	
5.001	15668	12694	0.810	0.05	
5.036	53791	49401	0.918	0.18	6 Aroclor 1248
5.063	13835	16443	1.189	0.04	
5.100	86316	49567	0.574	0.30	
5.162	147312	130724	0.887	0.51	7 Aroclor 1254
5.212	125717	111016	0.883	0.43	
5.283	18193	14414	0.792	0.06	
5.313	74745	72561	0.971	0.26	
5.363	44869	30645	0.683	0.15	
5.405	66415	60761	0.915	0.23	7 Aroclor 1254
5.451	527511	494333	0.937	1.84	
5.509	166388	142754	0.858	0.58	7 Aroclor 1254
5.571	17295	12679	0.733	0.06	
5.604	31254	27210	0.871	0.10	
5.673	83858	68560	0.818	0.29	
5.742	37892	31798	0.839	0.13	
5.789	312298	255098	0.817	1.09	
5.821	50639	60285	1.190	0.17	
5.839	98149	87167	0.888	0.34	
5.897	37792	30276	0.801	0.13	
5.931	14791	12518	0.846	0.05	
5.993	72132	66731	0.925	0.25	
6.025	130242	109902	0.844	0.45	7 Aroclor 1254
6.055	290191	259761	0.895	1.01	
6.169	100766	47194	0.468	0.35	
6.242	62556	34546	0.552	0.21	
6.299	382994	329265	0.860	1.33	7 Aroclor 1254
6.330	44048	38296	0.869	0.15	
6.432	51389	30664	0.597	0.17	
6.509	170148	155964	0.917	0.59	
6.534	78086	73579	0.942	0.27	
6.559	58341	47669	0.817	0.20	
6.662	26661	18405	0.690	0.09	
6.717	92598	69855	0.754	0.32	
6.758	77920	61240	0.786	0.27	
6.799	73366	58483	0.797	0.25	
6.839	38030	24494	0.644	0.13	
6.902	9305	8945	0.961	0.03	
6.940	101947	83336	0.817	0.35	
7.004	142874	128535	0.900	0.49	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.031	17402	16889	0.971	0.06	
7.096	68184	30156	0.442	0.23	
7.249	85318	77945	0.914	0.29	8 Aroclor 1260
7.281	74842	42571	0.569	0.26	
7.339	49387	30087	0.609	0.17	
7.390	49120	45195	0.920	0.17	
7.442	82316	55991	0.680	0.28	8 Aroclor 1260
7.486	40051	23536	0.588	0.13	
7.582	15394	16024	1.041	0.05	
7.612	3580	6724	1.878	0.01	
7.625	21325	16867	0.791	0.07	
7.663	18065	21147	1.171	0.06	
7.696	11559	14763	1.277	0.04	
7.711	12490	17072	1.367	0.04	
7.725	47166	39355	0.834	0.16	
7.763	41604	28024	0.674	0.14	
7.811	51309	28136	0.548	0.17	
7.898	66462	34263	0.516	0.23	8 Aroclor 1260
7.954	63759	33822	0.530	0.22	
8.047	52807	39104	0.741	0.18	
8.274	91454	80325	0.878	0.31	
8.376	71048	44444	0.626	0.24	
8.447	28949	24463	0.845	0.10	
8.481	21289	18650	0.876	0.07	
8.570	10236942	8747896	0.855	35.75	$ 12 Decachlorobiphenyl
8.640	24226	20068	0.828	0.08	
8.719	20660	14990	0.726	0.07	
9.167	360523	325984	0.904	1.25	
9.210	20666	16679	0.807	0.07	
9.316	9419	6687	0.710	0.03	
9.477	13420	10664	0.795	0.04	
	28634174	24912271		100.000	

Total unknown % area = 18

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418037.D
Lab Smp Id: 1677353 Client Smp ID: FD1-170829-01-PKSD-
Inj Date : 24-APR-2018 21:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1677353,
Misc Info : 17723,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\042418.b\pcba030618.m
Meth Date : 25-Apr-2018 13:57 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	5.035	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	11374595	0.09226	92			
3 Aroclor 1242					CAS #: 53469-21-9			
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232					CAS #: 1114-16-5			
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	54335	0.02319	23	0.00- 20.00	100.00(M)	CO
4.546	4.546	0.000	75107	0.01810	18	0.00- 20.00	138.23	CO
4.812	4.812	0.000	58737	0.02893	29	0.00- 20.00	108.10	CO
4.877	4.879	-0.002	167490	0.03325	33	0.00- 20.00	308.25	CO
5.035	5.038	-0.003	53790	0.01499	15	0.00- 20.00	99.00	CO
Average of Peak Concentrations =					24			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	147312	0.02814	28	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	66414	0.01544	15	0.00- 20.00	45.08	BA
5.508	5.510	-0.002	166387	0.02142	21	0.00- 20.00	112.95	BA
6.024	6.027	-0.003	130241	0.02675	26	0.00- 20.00	88.41	BA
6.299	6.299	0.000	382993	0.05886	58	0.00- 20.00	259.99	BA
Average of Peak Concentrations =					30			
8 Aroclor 1260					CAS #: 11096-82-5			
Qualifier signal(s) failed ratio test.								BA
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	10236942	0.09344	93			

QC Flag Legend

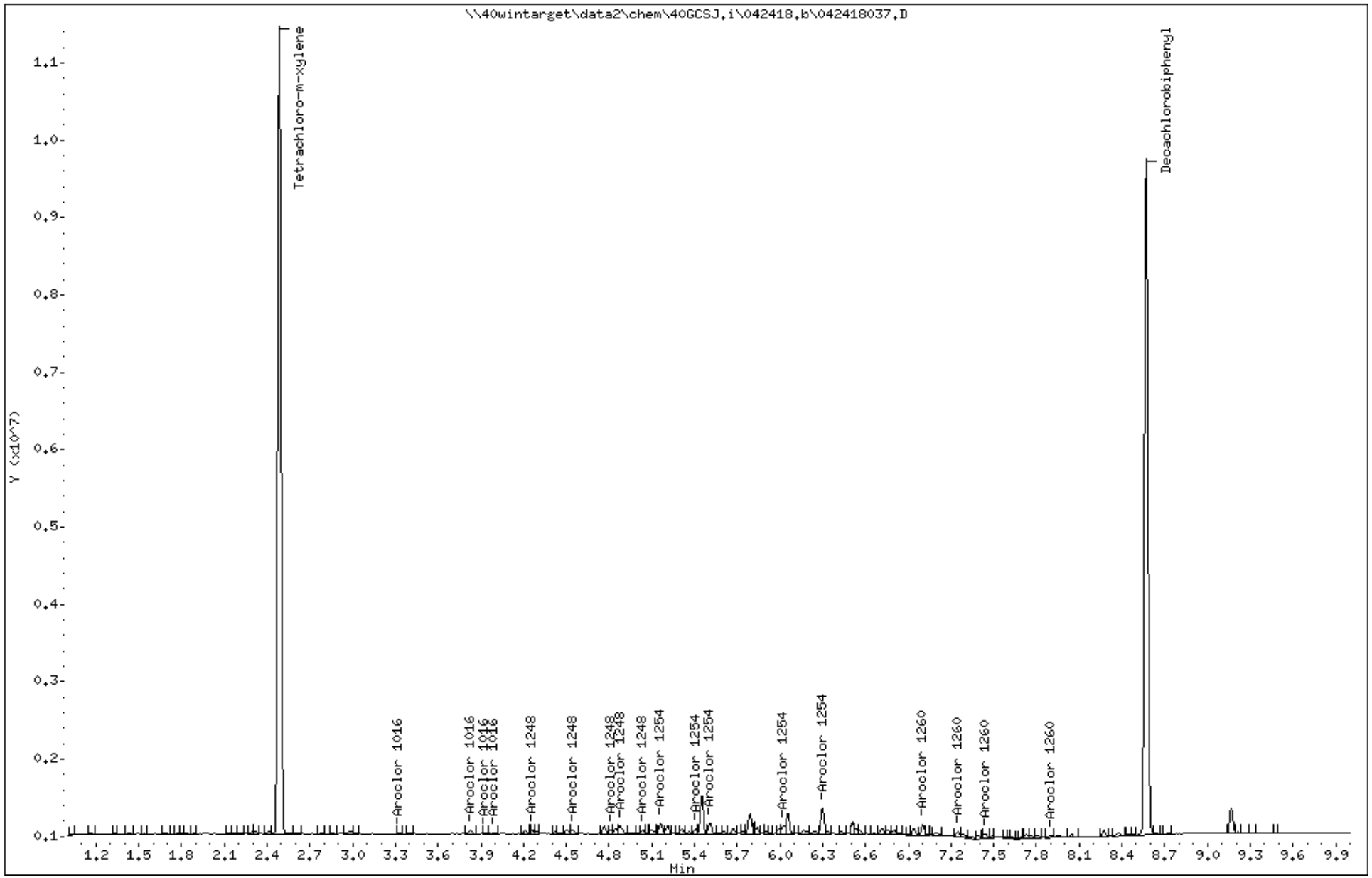
M - Compound response manually integrated.

Review Codes Legend

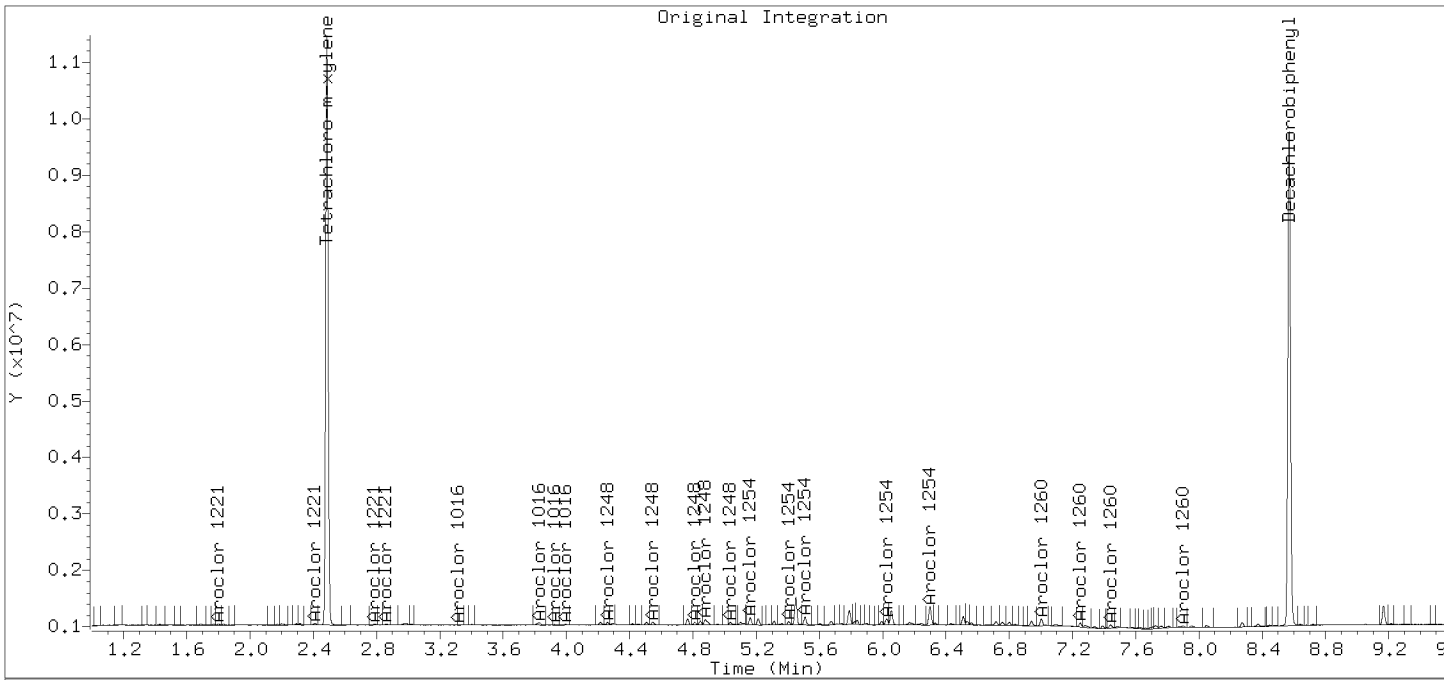
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

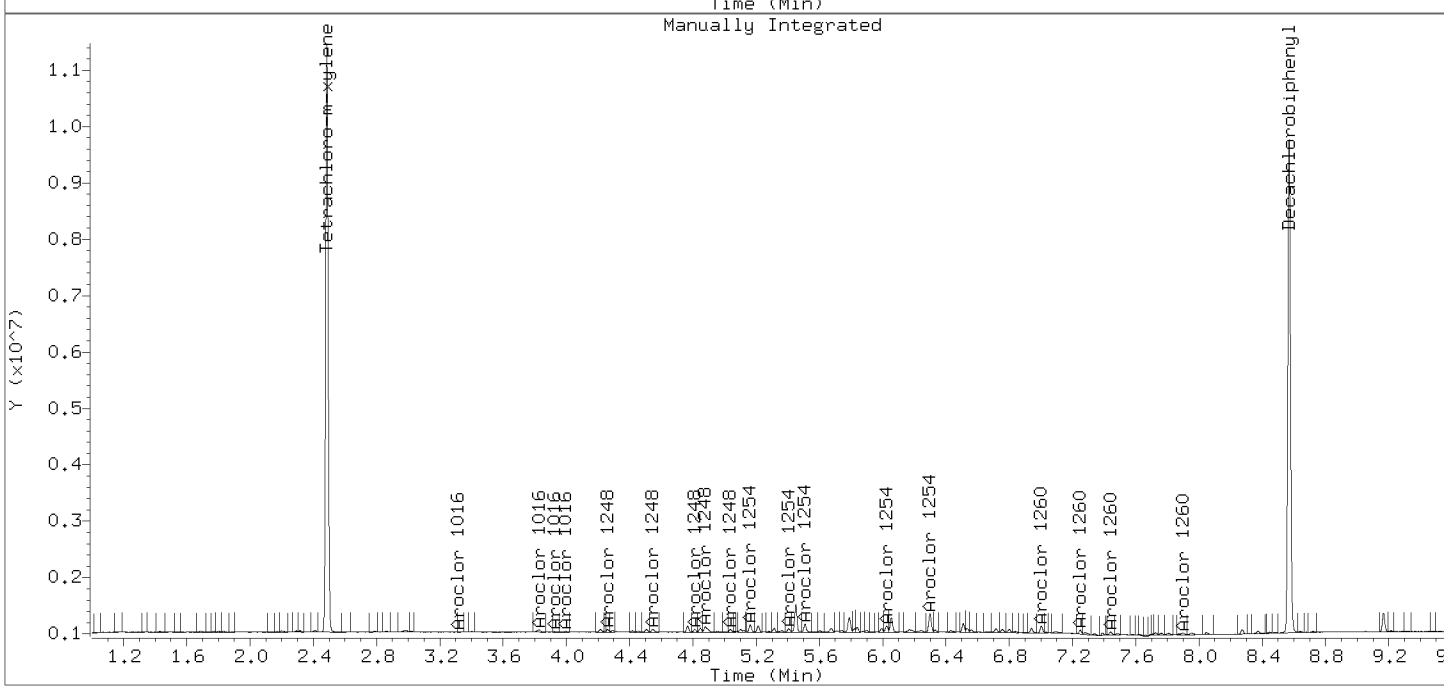
Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b\042418037.D
Date : 24-APR-2018 21:53
Client ID: FD1-170829-01-PKSD-
Sample Info: 1677353,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\042418.b/042418037.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 24-APR-2018 21:53 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1677353





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	24625	0	
Aroclor 1221	24625	0	
Aroclor 1221	24625	0	
Aroclor 1221	24625	0	
Aroclor 1221	24625	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	54335	CO
Aroclor 1248	0	54335	CO
Aroclor 1248	0	54335	CO
Aroclor 1248	0	54335	CO
Aroclor 1248	0	54335	CO
Aroclor 1254	136288	147312	BA
Aroclor 1254	136288	147312	BA
Aroclor 1254	136288	147312	BA
Aroclor 1254	136288	147312	BA
Aroclor 1254	136288	147312	BA
Aroclor 1260	367751	0	BA
Aroclor 1260	367751	0	BA
Aroclor 1260	367751	0	BA
Aroclor 1260	367751	0	BA
Aroclor 1260	367751	0	BA
Tetrachloro-m-xylene	11374595	11374595	
Decachlorobiphenyl	10236942	10236942	

==========

Prep Log Report

Batch Information: OEXT 286670 PCB-B

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

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	ETB	Extracted Date/Time	04/23/2018 06:47:11:243
Spiked By	ETB	Spiked By Date/Time	04/23/2018 06:47:15:395	Witnessed By	AMC	Witnessed By Date/Time	04/23/2018 06:47:15:395
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	194436	Hexane	192551	Sodium Sulfate	194085	Florisil	186910
3620B Date/Initials	04/24/18 ETB	H2SO4 - Conc.	179362	Acid 3665A Date/Initials	4/24/18 ETB	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/25/2018 13:57	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	**1677350**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1677351**	10	5	3		193230 (.25)	192096 (0.125)
8082A TNYP	PS	**40158010001**	9.9657	5	3		193230 (.25)	
8082A TNYP	PS	**40158010002**	9.9971	5	3		193230 (.25)	
8082A TNYP	PS	**40158010003**	10.0166	5	3		193230 (.25)	
8082A TNYP	PS	**40158010004**	9.9711	5	3		193230 (.25)	
8082A TNYP	PS	**40158010005**	7.1029	5	3		193230 (.25)	
8082A TNYP	PS	**40158010006**	10.0337	5	3		193230 (.25)	
8082A TNYP	PS	**40158010007**	7.8817	5	3		193230 (.25)	
8082A TNYP	PS	**40158010008**	6.1702	5	3		193230 (.25)	
8082A TNYP	PS	**40158010009**	10.0273	5	3		193230 (.25)	
8082A TNYP	PS	**40158010010**	8.1412	5	3		193230 (.25)	
8082A TNYP	PS	**40158010011**	7.0353	5	3		193230 (.25)	
8082A TNYP	PS	**40158010012**	9.9993	5	3		193230 (.25)	
8082A TNYP	PS	**40158010013**	10.0282	5	3		193230 (.25)	
8082A TNYP	PS	**40158010014**	10.0164	5	3		193230 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40158010015**	8.3907	5	3		193230 (.25)	
8082A TNYP	PS	**40158010016**	9.9746	5	3		193230 (.25)	
8082A TNYP	PS	**40158010017**	9.9821	5	3		193230 (.25)	
8082A TNYP	PS	**40158010018**	10.0151	5	3		193230 (.25)	
8082A TNYP	PS	**40158010019**	9.0847	5	3		193230 (.25)	
8082A TNYP	RQS	**40158010020**	4.9763	5	3		193230 (.25)	
8082A TNYP	MS	**1677352**	4.9986	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1677353**	5.0355	5	3		193230 (.25)	

Standard Notes:

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

PROJECT 40GCSI Screens 04/24/18

Notebook No. 4418

Continued from Page —

```
   Sequence Name: C:\msdchem\1\sequence\042418.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\042418\
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  1677350MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1677351LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  40158010-001 x5
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  40158010-002 —
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40158010-003 —
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40158010-004 —
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40158010-005 —
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40158010-006 —
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40158010-007 —
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  40158010-008 —
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40158010-009 —
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40158010-010 —
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40158010-011 —
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40158010-012 —
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  40158010-013 —
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40158010-014 —
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40158010-015 —
     Datafile           --------
```

GE BIOTA

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Read and Understood By

Bryan Meyer — Signed — 4/25/18 — Date

Jim O'Connor — Signed — 4-25-18 — Date

```
      Method              SCREEN2014
20) Sample          20  40158010-016
      Datafile            --------
      Method              SCREEN2014
21) RearSamp        21  40158010-017
      Datafile            --------
      Method              SCREEN2014
22) Sample          22  40158010-018
      Datafile            --------
      Method              SCREEN2014
23) RearSamp        23  40158010-019
      Datafile            --------
      Method              SCREEN2014
24) Sample          24  40158010-020P
      Datafile            --------
      Method              SCREEN2014
25) RearSamp        25  1677352MS
      Datafile            --------
      Method              SCREEN2014
26) Sample          26  1677353DUP
      Datafile            --------
      Method              SCREEN2014
```

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BLM 4/25/18

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Read and Understood By

Signed 4/25/18 Date Signed 4-25-18 Date

```
   Sequence Name: C:\msdchem\1\sequence\030618.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\030618\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Unlinked
 2) RearSamp        1  prime
     Datafile          030618001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          030618002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          030618003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          030618004
     Method            GEBIOTA2017
 6) RearSamp        5  1232-CAL3S,185539:1,17499,NSA
     Datafile          030618005
     Method            GEBIOTA2017
 7) Sample          4  HEXANE
     Datafile          030618006
     Method            GEBIOTA2017
 8) RearSamp        6  1221-CAL1F,188138:1,17499,NSA
     Datafile          030618007
     Method            GEBIOTA2017
 9) Sample          5  1232-CAL3S,185539:1,17498,NSA
     Datafile          030618008
     Method            GEBIOTA2017
10) RearSamp        7  1221-CAL2F,188139:1,17499,NSA
     Datafile          030618009
     Method            GEBIOTA2017
11) Sample          6  1221-CAL1F,188138:1,17498,NSA
     Datafile          030618010
     Method            GEBIOTA2017
12) RearSamp        8  1221-CAL3F,185538:1,17499,NSA
     Datafile          030618011
     Method            GEBIOTA2017
13) Sample          7  1221-CAL2F,188139:1,17498,NSA
     Datafile          030618012
     Method            GEBIOTA2017
14) RearSamp        9  1221-CAL4F,188140:1,17499,NSA
     Datafile          030618013
     Method            GEBIOTA2017
15) Sample          8  1221-CAL3F,185538:1,17498,NSA
     Datafile          030618014
     Method            GEBIOTA2017
16) RearSamp       10  1221-CAL5F,188141:1,17499,NSA
     Datafile          030618015
     Method            GEBIOTA2017
17) Sample          9  1221-CAL4F,188140:1,17498,NSA
     Datafile          030618016
     Method            GEBIOTA2017
18) RearSamp       11  HEXANE
     Datafile          030618017
     Method            GEBIOTA2017
19) Sample         10  1221-CAL5F,188141:1,17498,NSA
     Datafile          030618018
     Method            GEBIOTA2017
20) RearSamp       12  1242-CAL1B,188132:1,17499,NSA

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```

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Read and Understood By

Signed 3/7/18 Date Signed 3/7/18 Date

```
      Datafile          030618019
      Method            GEBIOTA2017
21) Sample        11    HEXANE
      Datafile          030618020
      Method            GEBIOTA2017
22) RearSamp      13    1242-CAL2B,185543:1,17499,NSA
      Datafile          030618021
      Method            GEBIOTA2017
23) Sample        12    1242-CAL1B,188132:1,17498,NSA
      Datafile          030618022
      Method            GEBIOTA2017
24) RearSamp      14    1242-CAL3B,185544:1,17499,NSA
      Datafile          030618023
      Method            GEBIOTA2017
25) Sample        13    1242-CAL2B,185543:1,17498,NSA
      Datafile          030618024
      Method            GEBIOTA2017
26) RearSamp      15    1242-CAL4B,185545:1,17499,NSA
      Datafile          030618025
      Method            GEBIOTA2017
27) Sample        14    1242-CAL3B,185544:1,17498,NSA
      Datafile          030618026
      Method            GEBIOTA2017
28) RearSamp      16    1242-CAL5B,185546:1,17499,NSA
      Datafile          030618027
      Method            GEBIOTA2017
29) Sample        15    1242-CAL4B,185545:1,17498,NSA
      Datafile          030618028
      Method            GEBIOTA2017
30) RearSamp      17    HEXANE
      Datafile          030618029
      Method            GEBIOTA2017
31) Sample        16    1242-CAL5B,185546:1,17498,NSA
      Datafile          030618030
      Method            GEBIOTA2017
32) RearSamp      18    1248-CAL1D,188134:1,17499,NSA
      Datafile          030618031
      Method            GEBIOTA2017
33) Sample        17    HEXANE
      Datafile          030618032
      Method            GEBIOTA2017
34) RearSamp      19    1248-CAL2D,185548:1,17499,NSA
      Datafile          030618033
      Method            GEBIOTA2017
35) Sample        18    1248-CAL1D,188134:1,17498,NSA
      Datafile          030618034
      Method            GEBIOTA2017
36) RearSamp      20    1248-CAL3D,185549:1,17499,NSA
      Datafile          030618035
      Method            GEBIOTA2017
37) Sample        19    1248-CAL2D,185548:1,17498,NSA
      Datafile          030618036
      Method            GEBIOTA2017
38) RearSamp      21    1248-CAL4D,185550:1,17499,NSA
      Datafile          030618037
      Method            GEBIOTA2017
39) Sample        20    1248-CAL3D,185549:1,17498,NSA
      Datafile          030618038
      Method            GEBIOTA2017
40) RearSamp      22    1248-CAL5D,185551:1,17499,NSA
      Datafile          030618039
      Method            GEBIOTA2017
41) Sample        21    1248-CAL4D,185550:1,17498,NSA
      Datafile          030618040
      Method            GEBIOTA2017
42) RearSamp      23    HEXANE
      Datafile          030618041
      Method            GEBIOTA2017
43) Sample        22    1248-CAL5D,185551:1,17498,NSA
      Datafile          030618042
      Method            GEBIOTA2017

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```

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Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/5/18 Date

Sequence Name: C:\msdchem\1\sequence\030618.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	24	1254-CAL1C,188135:1,17499,NSA		
	Datafile		030618043		
	Method			GEBIOTA2017	
45)	Sample	23	HEXANE		
	Datafile		030618044		
	Method			GEBIOTA2017	
46)	RearSamp	25	1254-CAL2C,185553:1,17499,NSA		
	Datafile		030618045		
	Method			GEBIOTA2017	
47)	Sample	24	1254-CAL1C,188135:1,17498,NSA		
	Datafile		030618046		
	Method			GEBIOTA2017	
48)	RearSamp	26	1254-CAL3C,185554:1,17499,NSA		
	Datafile		030618047		
	Method			GEBIOTA2017	
49)	Sample	25	1254-CAL2C,185553:1,17498,NSA		
	Datafile		030618048		
	Method			GEBIOTA2017	
50)	RearSamp	27	1254-CAL4C,185555:1,17499,NSA		
	Datafile		030618049		
	Method			GEBIOTA2017	
51)	Sample	26	1254-CAL3C,185554:1,17498,NSA		
	Datafile		030618050		
	Method			GEBIOTA2017	
52)	RearSamp	28	1254-CAL5C,185556:1,17499,NSA		
	Datafile		030618051		
	Method			GEBIOTA2017	
53)	Sample	27	1254-CAL4C,185555:1,17498,NSA		
	Datafile		030618052		
	Method			GEBIOTA2017	
54)	RearSamp	29	HEXANE		
	Datafile		030618053		
	Method			GEBIOTA2017	
55)	Sample	28	1254-CAL5C,185556:1,17498,NSA		
	Datafile		030618054		
	Method			GEBIOTA2017	
56)	RearSamp	30	1660-CAL1A,188136:1,17499,AR1		
	Datafile		030618055		
	Method			GEBIOTA2017	
57)	Sample	29	HEXANE		
	Datafile		030618056		
	Method			GEBIOTA2017	
58)	RearSamp	31	1660-CAL2A,185558:1,17499,AR1		
	Datafile		030618057		
	Method			GEBIOTA2017	
59)	Sample	30	1660-CAL1A,188136:1,17498,AR1		
	Datafile		030618058		
	Method			GEBIOTA2017	
60)	RearSamp	32	1660-CAL3A,185559:1,17499,AR1		
	Datafile		030618059		
	Method			GEBIOTA2017	
61)	Sample	31	1660-CAL2A,185558:1,17498,AR1		
	Datafile		030618060		
	Method			GEBIOTA2017	
62)	RearSamp	33	1660-CAL4A,185560:1,17499,AR1		
	Datafile		030618061		
	Method			GEBIOTA2017	
63)	Sample	32	1660-CAL3A,185559:1,17498,AR1		
	Datafile		030618062		
	Method			GEBIOTA2017	
64)	RearSamp	34	1660-CAL5A,185561:1,17499,AR1		
	Datafile		030618063		
	Method			GEBIOTA2017	
65)	Sample	33	1660-CAL4A,185560:1,17498,AR1		
	Datafile		030618064		
	Method			GEBIOTA2017	
66)	RearSamp	35	HEXANE		
	Datafile		030618065		

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BLM 3/7/18

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Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/7/18 Date

```
      Method                GEBIOTA2017
67) Sample          34  1660-CAL5A,185561:1,17498,AR1
      Datafile            030618066
      Method              GEBIOTA2017
68) RearSamp        36  1221-ICV,188142:1,17499,AR122
      Datafile            030618067
      Method              GEBIOTA2017
69) Sample          35  HEXANE
      Datafile            030618068
      Method              GEBIOTA2017
70) RearSamp        37  1242-ICV,185562:1,17499,AR124 ok
      Datafile            030618069
      Method              GEBIOTA2017
71) Sample          36  1221-ICV,188142:1,17498,AR122 ok
      Datafile            030618070
      Method              GEBIOTA2017
72) RearSamp        38  1248-ICV,185563:1,17499,AR124 ok
      Datafile            030618071
      Method              GEBIOTA2017
73) Sample          37  1242-ICV,185562:1,17498,AR124 ok
      Datafile            030618072
      Method              GEBIOTA2017
74) RearSamp        39  1254-ICV,185564:1,17499,AR125 ok
      Datafile            030618073
      Method              GEBIOTA2017
75) Sample          38  1248-ICV,185563:1,17498,AR124 ok
      Datafile            030618074
      Method              GEBIOTA2017
76) RearSamp        40  1660-ICV,185565:1,17499,AR166 ok
      Datafile            030618075
      Method              GEBIOTA2017
77) Sample          39  1254-ICV,185564:1,17498,AR125 ok
      Datafile            030618076
      Method              GEBIOTA2017
78) RearSamp        41  1221-CRDL,188138:1,17499,RL12 ok
      Datafile            030618077
      Method              GEBIOTA2017
79) Sample          40  1660-ICV,185565:1,17498,AR166 ok
      Datafile            030618078
      Method              GEBIOTA2017
80) RearSamp        42  1242-CRDL,188132:1,17499,RL12 ok
      Datafile            030618079
      Method              GEBIOTA2017
81) Sample          41  1221-CRDL,188138:1,17498,RL12 ok
      Datafile            030618080
      Method              GEBIOTA2017
82) RearSamp        43  1248-CRDL,188134:1,17499,RL12 ok
      Datafile            030618081
      Method              GEBIOTA2017
83) Sample          42  1242-CRDL,188132:1,17498,RL12 ok
      Datafile            030618082
      Method              GEBIOTA2017
84) RearSamp        44  1254-CRDL,188135:1,17499,RL12 ok
      Datafile            030618083
      Method              GEBIOTA2017
85) Sample          43  1248-CRDL,188134:1,17498,RL12 ok
      Datafile            030618084
      Method              GEBIOTA2017
86) RearSamp        45  1660-CRDL,188136:1,17499,RL16 ok
      Datafile            030618085
      Method              GEBIOTA2017
87) Sample          44  1254-CRDL,188135:1,17498,RL12 ok
      Datafile            030618086
      Method              GEBIOTA2017
88) RearSamp        46  HEXANE
      Datafile            030618087
      Method              GEBIOTA2017
89) Sample          45  1660-CRDL,188136:1,17498,RL16 ok
      Datafile            030618088
      Method              GEBIOTA2017

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```

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Read and Understood By

Bryan Meyer 3/7/18 Signed Date

Signed 3/7/18 Date

```
     Sequence Name: C:\msdchem\1\sequence\042418.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\042418\
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          042418001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          042418002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          042418003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 ok
     Datafile          042418004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 ok
     Datafile          042418005
     Method            GEBIOTA2017
 6) Sample          6  40157937003 x4,,17718,BIOTA
     Datafile          042418006
     Method            GEBIOTA2017
 7) Sample          7  40157937009 x4,,17718,BIOTA
     Datafile          042418007
     Method            GEBIOTA2017
 8) Sample          8  40157937013 x2,,17718,BIOTA
     Datafile          042418008
     Method            GEBIOTA2017
 9) Sample          9  1676399 x3,,17718,BIOTA
     Datafile          042418009
     Method            GEBIOTA2017
10) Sample         10  1677350,,17723,BIOTA
     Datafile          042418010
     Method            GEBIOTA2017
11) Sample         11  1677351,,17723,BIOTA
     Datafile          042418011
     Method            GEBIOTA2017
12) Sample         12  40158010001 x5,,17723,BIOTA RS
     Datafile          042418012
     Method            GEBIOTA2017
13) Sample         13  40158010002,,17723,BIOTA
     Datafile          042418013
     Method            GEBIOTA2017
14) Sample         14  40158010003,,17723,BIOTA
     Datafile          042418014
     Method            GEBIOTA2017
15) Sample         15  40158010004,,17723,BIOTA
     Datafile          042418015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 ok
     Datafile          042418016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 ok
     Datafile          042418017
     Method            GEBIOTA2017
18) Sample         18  40158010005,,17723,BIOTA
     Datafile          042418018
     Method            GEBIOTA2017
19) Sample         19  40158010006,,17723,BIOTA
     Datafile          042418019

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```

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Read and Understood By

Bryan Meyer — Signed — 4/25/18 — Date

Jim O'Connor — Signed — 4-25-18 — Date

```
      Method              GEBIOTA2017
20) Sample          20  40158010007,,17723,BIOTA
      Datafile            042418020
      Method              GEBIOTA2017
21) Sample          21  40158010008,,17723,BIOTA
      Datafile            042418021
      Method              GEBIOTA2017
22) Sample          22  40158010009,,17723,BIOTA
      Datafile            042418022
      Method              GEBIOTA2017
23) Sample          23  40158010010,,17723,BIOTA
      Datafile            042418023
      Method              GEBIOTA2017
24) Sample          24  40158010011,,17723,BIOTA
      Datafile            042418024
      Method              GEBIOTA2017
25) Sample          25  40158010012,,17723,BIOTA
      Datafile            042418025
      Method              GEBIOTA2017
26) Sample          26  40158010013,,17723,BIOTA
      Datafile            042418026
      Method              GEBIOTA2017
27) Sample          27  40158010014,,17723,BIOTA
      Datafile            042418027
      Method              GEBIOTA2017
28) Sample          28  1232-CCV,185539:1,17498,AR123 ok
      Datafile            042418028
      Method              GEBIOTA2017
29) Sample          29  1232-CCV,185539:1,17498,AR123 ok
      Datafile            042418029
      Method              GEBIOTA2017
30) Sample          30  40158010015,,17723,BIOTA
      Datafile            042418030
      Method              GEBIOTA2017
31) Sample          31  40158010016,,17723,BIOTA
      Datafile            042418031
      Method              GEBIOTA2017
32) Sample          32  40158010017,,17723,BIOTA
      Datafile            042418032
      Method              GEBIOTA2017
33) Sample          33  40158010018,,17723,BIOTA
      Datafile            042418033
      Method              GEBIOTA2017
34) Sample          34  40158010019,,17723,BIOTA
      Datafile            042418034
      Method              GEBIOTA2017
35) Sample          35  40158010020,,17723,BIOTA
      Datafile            042418035
      Method              GEBIOTA2017
36) Sample          36  1677352,,17723,BIOTA
      Datafile            042418036
      Method              GEBIOTA2017
37) Sample          37  1677353,,17723,BIOTA
      Datafile            042418037
      Method              GEBIOTA2017
38) Sample          38  1242-CCV,185544:1,17498,AR124 ok
      Datafile            042418038
      Method              GEBIOTA2017
39) Sample          39  1242-CCV,185544:1,17498,AR124 ok
      Datafile            042418039
      Method              GEBIOTA2017
```

GCSV Batch 17723 Screened 40GCSI 4/24/18

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Read and Understood By

Bryan Mayfield — Signed — 4/25/18 Date

Jim O'Connor — Signed — 4-25-18 Date

```
   Sequence Name: C:\msdchem\1\sequence\042518.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\042518\
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          042518001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          042518002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          042518003
     Method            GEBIOTA2017
 4) Sample          4  1248-CCV,185549:1,17498,AR124 ok
     Datafile          042518004
     Method            GEBIOTA2017
 5) Sample          5  1248-CCV,185549:1,17498,AR124 ok
     Datafile          042518005
     Method            GEBIOTA2017
 6) Sample          6  40158010001 x6,,17723,BIOTA
     Datafile          042518006
     Method            GEBIOTA2017
 7) Sample          7  1677643,,17730,BIOTA
     Datafile          042518007
     Method            GEBIOTA2017
 8) Sample          8  1677644,,17730,BIOTA
     Datafile          042518008
     Method            GEBIOTA2017
 9) Sample          9  40157940001 x3,,17730,BIOTA
     Datafile          042518009
     Method            GEBIOTA2017
10) Sample         10  40157940002 x100,,17730,BIOTA
     Datafile          042518010
     Method            GEBIOTA2017
11) Sample         11  40157940003 x100,,17730,BIOTA
     Datafile          042518011
     Method            GEBIOTA2017
12) Sample         12  40157940004 x50,,17730,BIOTA
     Datafile          042518012
     Method            GEBIOTA2017
13) Sample         13  40157940005 x100,,17730,BIOTA RS
     Datafile          042518013
     Method            GEBIOTA2017
14) Sample         14  40157940006 x3,,17730,BIOTA
     Datafile          042518014
     Method            GEBIOTA2017
15) Sample         15  40157940007 x2,,17730,BIOTA
     Datafile          042518015
     Method            GEBIOTA2017
16) Sample         16  1254-CCV,185554:1,17498,AR125 ok
     Datafile          042518016
     Method            GEBIOTA2017
17) Sample         17  1254-CCV,185554:1,17498,AR125 ok
     Datafile          042518017
     Method            GEBIOTA2017
18) Sample         18  40157940008 x20,,17730,BIOTA
     Datafile          042518018
     Method            GEBIOTA2017
19) Sample         19  40157940009 x15,,17730,BIOTA
     Datafile          042518019

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```

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Read and Understood By

Signed: [signature] Date: 4/26/18 Signed: [signature] Date: 4/26/18

```
      Method                GEBIOTA2017
20) Sample          20  40157940010 x10,,17730,BIOTA
      Datafile              042518020
      Method                GEBIOTA2017
21) Sample          21  40157940011 x10,,17730,BIOTA
      Datafile              042518021
      Method                GEBIOTA2017
22) Sample          22  40157940012 x30,,17730,BIOTA
      Datafile              042518022
      Method                GEBIOTA2017
23) Sample          23  40157940013 x50,,17730,BIOTA
      Datafile              042518023
      Method                GEBIOTA2017
24) Sample          24  40157940014 x50,,17730,BIOTA
      Datafile              042518024
      Method                GEBIOTA2017
25) Sample          25  40157940016 x20,,17730,BIOTA
      Datafile              042518025
      Method                GEBIOTA2017
26) Sample          26  40157940017 x20,,17730,BIOTA
      Datafile              042518026
      Method                GEBIOTA2017
27) Sample          27  40157940018 x5,,17730,BIOTA
      Datafile              042518027
      Method                GEBIOTA2017
28) Sample          28  1660-CCV,185559:1,17498,AR166 OK
      Datafile              042518028
      Method                GEBIOTA2017
29) Sample          29  1660-CCV,185559:1,17498,AR166 OK
      Datafile              042518029
      Method                GEBIOTA2017
30) Sample          30  40157940019 x30,,17730,BIOTA
      Datafile              042518030
      Method                GEBIOTA2017
31) Sample          31  40157940020 x4,,17730,BIOTA
      Datafile              042518031
      Method                GEBIOTA2017
32) Sample          32  40158013010 x10,,17730,BIOTA
      Datafile              042518032
      Method                GEBIOTA2017
33) Sample          33  1677645 x10,,17730,BIOTA
      Datafile              042518033
      Method                GEBIOTA2017
34) Sample          34  1677646 x10,,17730,BIOTA
      Datafile              042518034
      Method                GEBIOTA2017
35) Sample          35  1221-CCV,185538:1,17498,AR122 OK
      Datafile              042518035
      Method                GEBIOTA2017
36) Sample          36  1221-CCV,185538:1,17498,AR122 OK
      Datafile              042518036
      Method                GEBIOTA2017
```

GCSV Batch 17730 Screened 40GCSI 04/25/18

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Read and Understood By

Signed 4/26/18 Date

Signed 4/26/18 Date

Standard Log Report

Standards Log Information for Standard #194436

WORKING STANDARD

Created By:	ETB	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/20/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	10/20/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #194436

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

Composed of Information for Standard #194436

Composed of Standard Seq	Volume	Units
192551	2000	mL
190946	2000	mL

Standard Log Report

Standards Log Information for Standard #194085

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/17/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	10/17/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/17/18
from drum 192182

Compound Name and Concentration for Standard #194085

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

Standard Log Report

Standards Log Information for Standard #193230

WORKING STANDARD

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

Notes:

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

Compound Name and Concentration for Standard #193230

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

Composed of Information for Standard #193230

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

Standard Log Report

Standards Log Information for Standard #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 #190946

STOCK STANDARD

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

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190946

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

Standard Log Report

Standards Log Information for Standard #190942

STOCK STANDARD

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

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190942

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

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

Standard Log Report

Standards Log Information for Standard #188142

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-ICV

Notes:

1221 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #188142

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #188142

Composed of Standard Seq	Volume	Units
188137	500	uL
188129	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #188137

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #188137

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL

Composed of Information for Standard #188137

Composed of Standard Seq	Volume	Units
184640	9	mL
179816	1000	uL

Standard Log Report

Standards Log Information for Standard #188136

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL1

Notes:

NY 1660 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188136

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.1 ug/mL	PCB-1260 (Aroclor 1260)	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188136

Composed of Standard Seq	Volume	Units
188129	100	uL
185533	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

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

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

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

Composed of Information for Standard #188135

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

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

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

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

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

Composed of Information for Standard #188134

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

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

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

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

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

Composed of Information for Standard #188132

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

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #188129

Composed of Standard Seq	Volume	Units
185958	1	mL
184640	19	mL

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405706
Create Date:	01/12/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	01/11/2020	**Manufacturer Lot ID:**	174228	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

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

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

Created By:	BLM	**Volume of Standard:**	1 mL	**Lot ID:**	405693
Create Date:	01/02/2018	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	11/30/2023	**Manufacturer Lot ID:**	A0130424	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-ICV

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185565

Composed of Standard Seq	Volume	Units
185537	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-ICV

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185564

Composed of Standard Seq	Volume	Units
185536	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-ICV

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185563

Composed of Standard Seq	Volume	Units
185535	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-ICV

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185562

Composed of Standard Seq	Volume	Units
185534	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL5

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	1 ug/mL	PCB-1260 (Aroclor 1260)	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185561

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL4

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.8 ug/mL	PCB-1260 (Aroclor 1260)	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185560

Composed of Standard Seq	Volume	Units
185533	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

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

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL3

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185554

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL2

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185553

Composed of Standard Seq	Volume	Units
185530	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL5

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185551

Composed of Standard Seq	Volume	Units
185529	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL4

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185550

Composed of Standard Seq	Volume	Units
185529	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL3

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185549

Composed of Standard Seq	Volume	Units
185529	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL2

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185548

Composed of Standard Seq	Volume	Units
185529	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL5

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	1 ug/mL	PCB-1242 (Aroclor 1242)	1 ug/mL
PCB-1242 (Aroclor 1242)-6	1 ug/mL	PCB-1242 (Aroclor 1242)-7	1 ug/mL
PCB-1242 (Aroclor 1242)-8	1 ug/mL	PCB-1242 (Aroclor 1242)-9	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185546

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL4

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

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

Composed of Information for Standard #185545

Composed of Standard Seq	Volume	Units
185528	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL3

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	PCB-1242 (Aroclor 1242)	.5 ug/mL
PCB-1242 (Aroclor 1242)-6	.5 ug/mL	PCB-1242 (Aroclor 1242)-7	.5 ug/mL
PCB-1242 (Aroclor 1242)-8	.5 ug/mL	PCB-1242 (Aroclor 1242)-9	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185544

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL2

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.2 ug/mL	PCB-1242 (Aroclor 1242)	.2 ug/mL
PCB-1242 (Aroclor 1242)-6	.2 ug/mL	PCB-1242 (Aroclor 1242)-7	.2 ug/mL
PCB-1242 (Aroclor 1242)-8	.2 ug/mL	PCB-1242 (Aroclor 1242)-9	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185543

Composed of Standard Seq	Volume	Units
185528	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-CAL3

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1232 (Aroclor 1232)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185539

Composed of Standard Seq	Volume	Units
185527	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL3

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	PCB-1221 (Aroclor 1221)-1	.5 ug/mL
PCB-1221 (Aroclor 1221)-2	.5 ug/mL	PCB-1221 (Aroclor 1221)-3	.5 ug/mL
PCB-1221 (Aroclor 1221)-4	.5 ug/mL	PCB-1232 (Aroclor 1232)-5	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185538

Composed of Standard Seq	Volume	Units
185526	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185537

Composed of Standard Seq	Volume	Units
184640	9	mL
175600	1	mL

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

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185530

Composed of Standard Seq	Volume	Units
184640	9	mL
173182	1000	uL

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 #178398

INDIVIDUAL STANDARD

Created By:	DMH	**Volume of Standard:**	1 mL	**Lot ID:**	405520
Create Date:	09/18/2017	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0125833	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405431
Create Date:	08/09/2017	**Manufacturer:**	O2SI	**Part ID:**	130011-03
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	311587	**Standard ID:**	1660-STK

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405386
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030277-06
Expire Date:	03/21/2020	**Manufacturer Lot ID:**	302980	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405385
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030276-15
Expire Date:	01/14/2020	**Manufacturer Lot ID:**	296389	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405384
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030275-03
Expire Date:	03/20/2027	**Manufacturer Lot ID:**	302979	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405375
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32039
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124547	**Standard ID:**	1660-STK

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

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

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405372
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32011
Expire Date:	05/31/2023	**Manufacturer Lot ID:**	A0125350	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405371
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32010
Expire Date:	12/31/2022	**Manufacturer Lot ID:**	A0121842	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405370
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32009
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124535	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL	PCB-1242 (Aroclor 1242)	1000 ug/mL
PCB-1242 (Aroclor 1242)-6	1000 ug/mL	PCB-1242 (Aroclor 1242)-7	1000 ug/mL
PCB-1242 (Aroclor 1242)-8	1000 ug/mL	PCB-1242 (Aroclor 1242)-9	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405369
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32008
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124534	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

Compound Name	Concentration	Compound Name	Concentration
PCB-1232 (Aroclor 1232)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405368
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32007
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0126078	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL	PCB-1221 (Aroclor 1221)-1	1000 ug/mL
PCB-1221 (Aroclor 1221)-2	1000 ug/mL	PCB-1221 (Aroclor 1221)-3	1000 ug/mL
PCB-1221 (Aroclor 1221)-4	1000 ug/mL	PCB-1232 (Aroclor 1232)-5	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	10 mL	**Lot ID:**	405341
Create Date:	06/23/2017	**Manufacturer:**	O2SI	**Part ID:**	130023-15
Expire Date:	11/06/2018	**Manufacturer Lot ID:**	311236	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 2000 ug/mL - opened 11/6/17 MRN

Compound Name and Concentration for Standard #172034

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	2000 ug/mL	Tetrachloro-m-xylene (S)	2000 ug/mL

Standard Log Report

Standards Log Information for Standard #81343

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81343

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #81342

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81342

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #81341

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81341

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

Standard Log Report

Standards Log Information for Standard #81340

INDIVIDUAL STANDARD

Created By:	CAC	**Volume of Standard:**	1 mL	**Lot ID:**	403271
Create Date:	04/22/2014	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	04/15/2024	**Manufacturer Lot ID:**	226760	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #81340

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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

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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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ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
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)

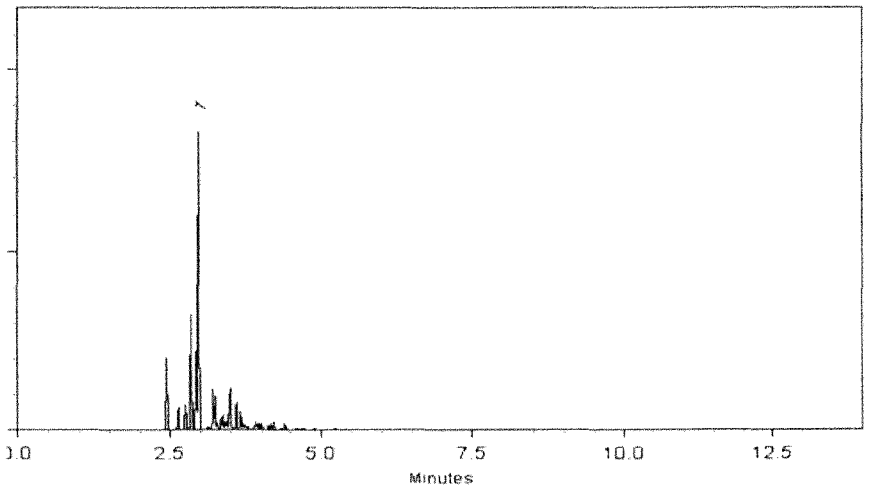
Carrier Gas:
helium-constant pressure 20 psi.

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

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. : 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)

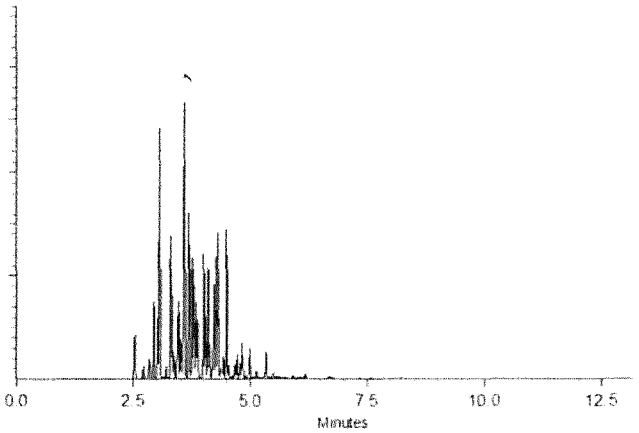
Carrier Gas:
helium-constant pressure 20 psi.

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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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32009 **Lot No.:** A0124535

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1242		1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 53469-21-9	(Lot 01141-A)		+/- 31.7706	µg/mL	Unstressed
	Purity ----%			+/- 41.4958	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405370
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

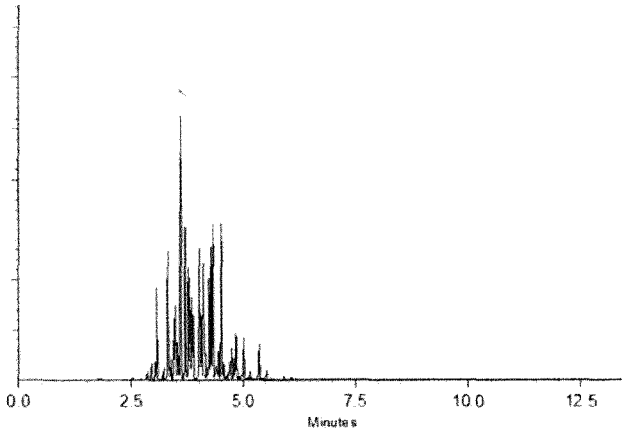
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 **Lot No.:** A0121842

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	996.8 µg/mL	+/- 5.8498 µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 07)		+/- 31.5925 µg/mL	Unstressed
	Purity ----%		+/- 41.2704 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405371
REC.07/06/17 BY BDS
Exp. __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

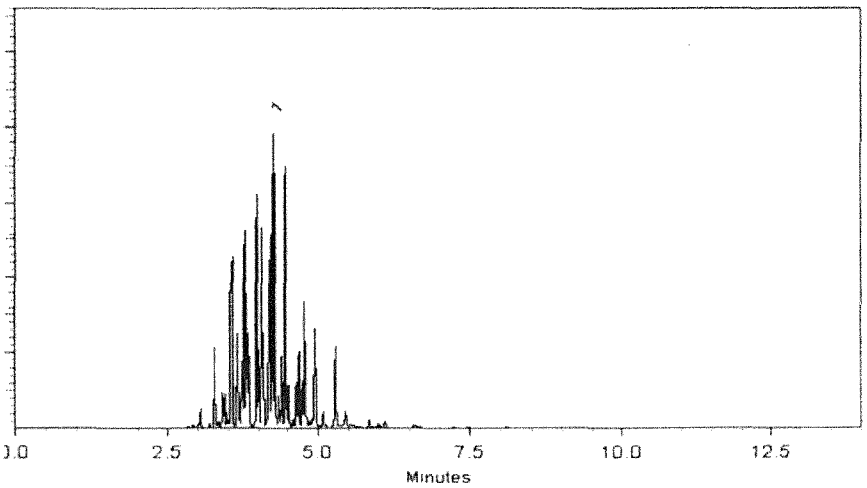
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician

Date Mixed: 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254		1,005.6 µg/mL	+/- 5.9014	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8715	µg/mL	Unstressed
	Purity ----%			+/- 41.6347	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

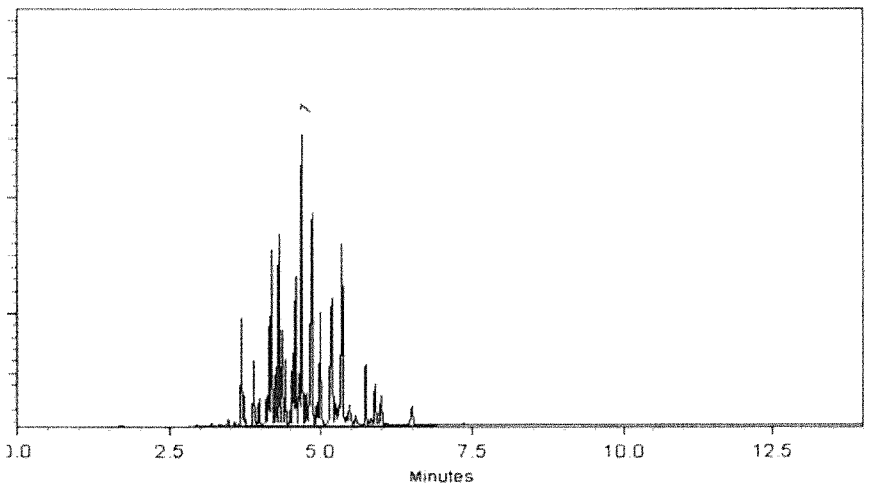
Carrier Gas:
helium-constant pressure 20 psi.

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.

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,002.0 µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot W-125-04)		+/- 31.7498	µg/mL	Unstressed
	Purity ----%			+/- 41.4799	µg/mL	Stressed
2	Aroclor 1260		1,002.2 µg/mL	+/- 5.8403	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot W-129-06)		+/- 31.7561	µg/mL	Unstressed
	Purity ----%			+/- 41.4881	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

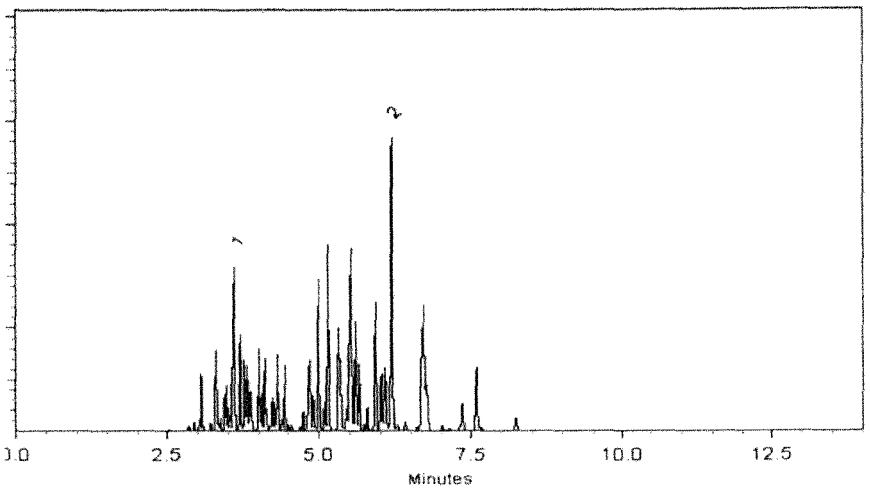
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis

Cathleen Soltis - Mix Technician

Date Mixed: 30-Jan-2017 **Balance:** B442140311

Jennifer J Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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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

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.

Manufacture Date 22-Mar-2017

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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: _____

Certificate of Analysis

Rev 0 **Page 1 of 1**

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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0125833

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

dmh 9-18-17

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3844	µg/mL	Unstressed
	Purity 98%			+/- 8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.9 µg/mL	+/- 1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3975	µg/mL	Unstressed
	Purity 99%			+/- 8.3581	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

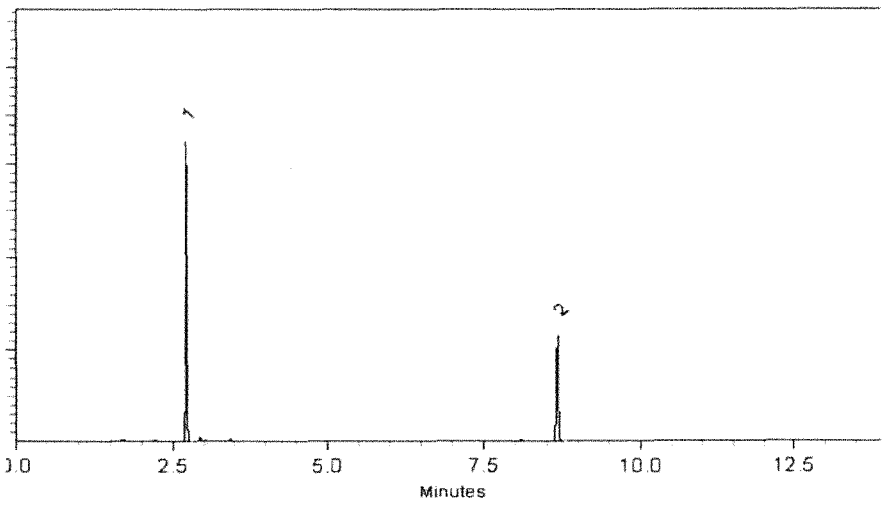
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Mar-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

405532
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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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Date Received: _____

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
Gen. / / By

J.T.Baker® | avantor™

Material No.: 3375-09
Batch No.: 0000177456
Manufactured Date: 2017/05/23
Retest Date: 2022/05/22

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (Na_2SO_4)	>= 99.0 %	99.2
ACS - Insoluble Matter	<= 0.01 %	< 0.01
ACS - Loss on Ignition	<= 0.5 %	0.1
ACS - pH of 5% Solution at 25°C	5.2 - 9.2	6.0
ACS - Chloride (Cl)	<= 0.001 %	< 0.001
ACS - Phosphate (PO_4)	<= 0.001 %	< 0.001
ACS - Calcium (Ca)	<= 0.01 %	< 0.01
ACS - Iron (Fe)	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.005 %	< 0.005
ACS - Potassium (K)	<= 0.01 %	< 0.01
ACS - Extraction-Concentration Suitability *	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Nitrogen Compounds (as N)	<= 5 ppm	< 5

For Laboratory, Research or Manufacturing Use
* Result obtained on a sample dried at 400°C for one hour (ACS method)

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

405661
REC. 10/26/17 BY AMC
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000183983
Manufactured Date: 2017/09/15
Expiration Date: 2018/12/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.8
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	98
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.5
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
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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)

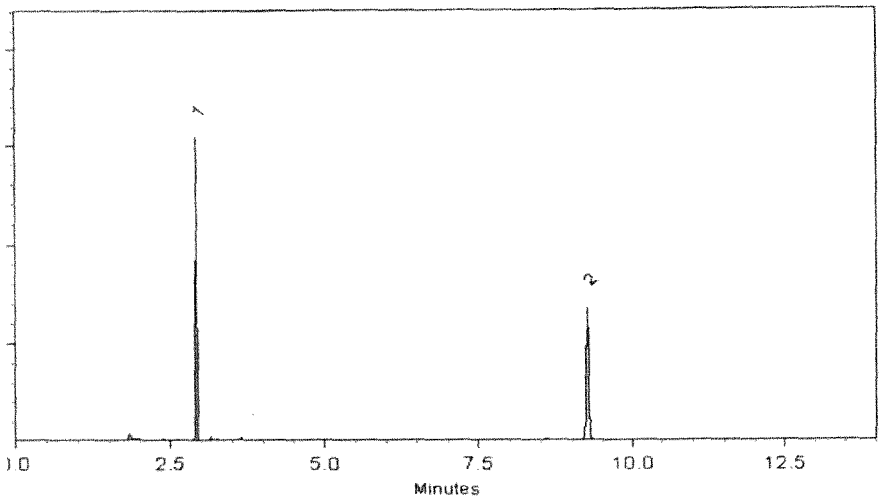
Carrier Gas:
helium-constant pressure 20 psi.

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.

ND3-170829-01-PKSD-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.0		%	1	04/23/2018 13:58

SAMPLE NO.

FD1-170829-01-PKSD-20

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.8		%	1	04/23/2018 13:58

SAMPLE NO.

FD1-170829-01-PKSD-19

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.4		%	1	04/23/2018 13:58

SAMPLE NO.

FD1-170829-01-PKSD-18

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	04/23/2018 13:58

SAMPLE NO.

FD1-170829-01-PKSD-17

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.8		%	1	04/23/2018 13:59

SAMPLE NO.

FD1-170829-01-PKSD-16

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.2		%	1	04/23/2018 13:59

SAMPLE NO.

FD1-170829-01-PKSD-15

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	04/23/2018 13:59

SAMPLE NO.

FD1-170829-01-PKSD-14

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.3		%	1	04/23/2018 13:59

SAMPLE NO.

FD1-170829-01-PKSD-13

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.5		%	1	04/23/2018 13:59

SAMPLE NO.

FD1-170829-01-PKSD-12

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.7		%	1	04/23/2018 13:59

SAMPLE NO.

FD1-170829-01-PKSD-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.9		%	1	04/23/2018 14:00

SAMPLE NO.

FD1-170829-01-PKSD-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.6		%	1	04/23/2018 14:00

SAMPLE NO.

FD1-170829-01-PKSD-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.9		%	1	04/23/2018 14:00

SAMPLE NO.

FD1-170829-01-PKSD-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.3		%	1	04/23/2018 14:00

SAMPLE NO.

FD1-170829-01-PKSD-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.9		%	1	04/23/2018 14:00

SAMPLE NO.

FD1-170829-01-PKSD-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.8		%	1	04/23/2018 14:01

SAMPLE NO.

FD1-170829-01-PKSD-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010017 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.9		%	1	04/23/2018 14:01

SAMPLE NO.

FD1-170829-01-PKSD-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010018 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.5		%	1	04/23/2018 14:01

SAMPLE NO.

FD1-170829-01-PKSD-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010019 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.1		%	1	04/23/2018 14:01

SAMPLE NO.

FD1-170829-01-PKSD-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158010020 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.0		%	1	04/23/2018 14:01

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 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	1677447	C
Lipid									<0.030	U

SAMPLE NO.

1677450DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158010 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	3.0	3.1	3

Prep Log Report

Batch Information: OEXT 286704 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	ETB	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/03/2018 12:19				

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	**1677447**	Y	-0.02000	04/23/2018 13:57:52		10	5	1	0.932	0.9316	M	1677350
LIPID	BLANK	**1677448**	Y	-0.01000	04/23/2018 13:58:04		10	5	1	0.9252	0.925	M	1677351
LIPID	PS	**40158010001**	Y	3.015	04/23/2018 13:58:14		9.9657	5	1	0.9262	0.9863	M	
LIPID	PS	**40158010002**	Y	2.846	04/23/2018 13:58:24		9.9971	5	1	0.9318	0.9887	M	
LIPID	PS	**40158010003**	Y	2.386	04/23/2018 13:58:37		10.0166	5	1	0.9262	0.974	M	
LIPID	PS	**40158010004**	Y	2.487	04/23/2018 13:58:47		9.9711	5	1	0.9302	0.9798	M	
LIPID	PS	**40158010005**	Y	2.788	04/23/2018 13:59:00		7.1029	5	1	0.9259	0.9655	M	
LIPID	PS	**40158010006**	Y	2.212	04/23/2018 13:59:11		10.0337	5	1	0.9275	0.9719	M	
LIPID	PS	**40158010007**	Y	2.512	04/23/2018 13:59:21		7.8817	5	1	0.9283	0.9679	M	
LIPID	PS	**40158010008**	Y	2.318	04/23/2018 13:59:33		6.1702	5	1	0.9299	0.9585	M	
LIPID	PS	**40158010009**	Y	2.468	04/23/2018 13:59:44		10.0273	5	1	0.9285	0.978	M	
LIPID	PS	**40158010010**	Y	2.672	04/23/2018 13:59:56		8.1412	5	1	0.9323	0.9758	M	
LIPID	PS	**40158010011**	Y	2.864	04/23/2018 14:00:07		7.0353	5	1	0.9282	0.9685	M	
LIPID	PS	**40158010012**	Y	2.615	04/23/2018 14:00:18		9.9993	5	1	0.9323	0.9846	M	
LIPID	PS	**40158010013**	Y	2.937	04/23/2018 14:00:28		10.0282	5	1	0.9312	0.9901	M	
LIPID	PS	**40158010014**	Y	3.270	04/23/2018 14:00:40		10.0164	5	1	0.9338	0.9993	M	
LIPID	PS	**40158010015**	Y	2.926	04/23/2018 14:00:51		8.3907	5	1	0.9326	0.9817	M	
LIPID	PS	**40158010016**	Y	2.847	04/23/2018 14:01:07		9.9746	5	1	0.9327	0.9895	M	
LIPID	PS	**40158010017**	Y	2.875	04/23/2018 14:01:19		9.9821	5	1	0.9329	0.9903	M	

Prep Log Report

40158010

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	PS	**40158010018**	Y	3.500	04/23/2018 14:01:35		10.0151	5	1	0.93	1.0001	M	
LIPID	PS	**40158010019**	Y	2.091	04/23/2018 14:01:48		9.0847	5	1	0.9296	0.9676	M	
LIPID	RQS	**40158010020**	Y	3.044	04/23/2018 14:01:59		4.9763	5	1	0.9262	0.9565	M	
LIPID	DUP	**1677450**	Y	3.128	04/23/2018 14:02:27		5.0355	5	1	0.9278	0.9593	M	1677353
LIPID	MS	**1683156**	Y	2.171	04/23/2018 14:02:27		4.9986	5	1	.932	0.9537	M	1677352

Client Name: GE
Project #: 40158010
Sample Type: Fish
Date/Time Removed to Thaw: 04-17-18
Date/Time Prepped: 04-17-18
Prepped by: CWN + JL + RM
Location Thawed: 40FRG21 / Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
1	N/A	WB	Y	30.3	Y	N/A	N/A	Left / Both	N/A	4AG	1	Y	27.9	C	
2			Y	13.1				Left / Both				Y	12.1		
3			Y	13.3				Left / Both				Y	12.4		
4			Y	11.7				Left / Both				Y	11.0		
5			Y	8.0				Left / Both				Y	7.3		
6			Y	12.1				Left / Both				Y	11.2		
7			Y	9.0				Left / Both				Y	8.2		
8			Y	7.0				Left / Both				Y	6.4		
9			Y	14.1				Left / Both				Y	13.0		
10			Y	9.0				Left / Both				Y	8.4		
11			Y	8.0				Left / Both				Y	7.5		
12			Y	11.3				Left / Both				Y	10.4		
13			Y	15.7				Left / Both				Y	14.2		
14			Y	19.1				Left / Both				Y	17.8		
15			Y	9.5				Left / Both				Y	8.9		
16			Y	14.7				Left / Both				Y	13.8		
17			Y	13.2				Left / Both				Y	12.3		
18			Y	17.8				Left / Both				Y	16.3		
19			Y	10.7				Left / Both				Y	9.5		
20			Y	18.4				Left / Both				Y	16.9		

(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 04-17-18

(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	G-7-243-01DB
9AG	9 oz Amber Glass	
32AG	32 oz Amber Glass	

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

4/27/18
Date

40158010
003 of 003