Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40157487

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

May 04, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 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.: 40157487

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.: 40157487

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40157487001	**SW3-170614-01-YP-10**	Tissue	06/14/17 11:08	09/27/17 10:20
40157487002	**SW3-170614-01-YP-09**	Tissue	06/14/17 11:06	09/27/17 10:20
40157487003	**SW3-170614-01-YP-08**	Tissue	06/14/17 11:03	09/27/17 10:20
40157487004	**SW3-170614-01-YP-07**	Tissue	06/14/17 11:01	09/27/17 10:20
40157487005	**SW3-170614-01-YP-06**	Tissue	06/14/17 10:59	09/27/17 10:20
40157487006	**SW3-170614-01-YP-05**	Tissue	06/14/17 10:57	09/27/17 10:20
40157487007	**SW3-170614-01-YP-04**	Tissue	06/14/17 10:55	09/27/17 10:20
40157487008	**SW3-170614-01-YP-03**	Tissue	06/14/17 10:53	09/27/17 10:20
40157487009	**SW3-170614-01-YP-02**	Tissue	06/14/17 10:51	09/27/17 10:20
40157487010	**SW3-170614-01-YP-01**	Tissue	06/14/17 10:49	09/27/17 10:20
40157487011	**SW3-170614-01-LMB-10**	Tissue	06/14/17 10:11	09/27/17 10:20
40157487012	**SW3-170614-01-LMB-09**	Tissue	06/14/17 10:09	09/27/17 10:20
40157487013	**SW3-170614-01-LMB-08**	Tissue	06/14/17 10:06	09/27/17 10:20
40157487014	**SW3-170614-01-LMB-07**	Tissue	06/14/17 10:04	09/27/17 10:20
40157487015	**SW3-170614-01-LMB-06**	Tissue	06/14/17 10:00	09/27/17 10:20
40157487016	**SW3-170614-01-LMB-05**	Tissue	06/14/17 09:58	09/27/17 10:20
40157487017	**SW3-170614-01-LMB-04**	Tissue	06/14/17 09:54	09/27/17 10:20
40157487018	**SW3-170614-01-LMB-03**	Tissue	06/14/17 09:52	09/27/17 10:20
40157487019	**SW3-170614-01-LMB-02**	Tissue	06/14/17 09:49	09/27/17 10:20
40157487020	**SW3-170614-01-LMB-01**	Tissue	06/14/17 09:46	09/27/17 10:20

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40157487001	SW3-170614-01-YP-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487002	SW3-170614-01-YP-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487003	SW3-170614-01-YP-08	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487004	SW3-170614-01-YP-07	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487005	SW3-170614-01-YP-06	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487006	SW3-170614-01-YP-05	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487007	SW3-170614-01-YP-04	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487008	SW3-170614-01-YP-03	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487009	SW3-170614-01-YP-02	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487010	SW3-170614-01-YP-01	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487011	SW3-170614-01-LMB-10	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487012	SW3-170614-01-LMB-09	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487013	SW3-170614-01-LMB-08	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487014	**SW3-170614-01-LMB-07**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487015	**SW3-170614-01-LMB-06**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487016	**SW3-170614-01-LMB-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487017	**SW3-170614-01-LMB-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487018	**SW3-170614-01-LMB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487019	**SW3-170614-01-LMB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40157487020	**SW3-170614-01-LMB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 04, 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.

QC Batch: 284719

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157487017

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

- MS (Lab ID: 1666456)
  - PCB-1242 (Aroclor 1242)

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

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Method: **Pace Gender Typing**
Description: Fish Gender Typing
Client: General Electric
Date: May 04, 2018

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

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

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

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

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 04, 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.: 40157487

Sample: SW3-170614-01-YP-10 **Lab ID: 40157487001** Collected: 06/14/17 11:08 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.7**	ug/kg	99.8	22.7	2	04/09/18 07:13	04/10/18 22:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**99.3J**	ug/kg	99.8	22.7	2	04/09/18 07:13	04/10/18 22:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.7**	ug/kg	99.8	22.7	2	04/09/18 07:13	04/10/18 22:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.7**	ug/kg	99.8	22.7	2	04/09/18 07:13	04/10/18 22:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**334**	ug/kg	99.8	22.7	2	04/09/18 07:13	04/10/18 22:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**280**	ug/kg	99.8	22.7	2	04/09/18 07:13	04/10/18 22:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**97.2J**	ug/kg	99.8	22.7	2	04/09/18 07:13	04/10/18 22:18	11096-82-5	
PCB, Total	**810**	ug/kg	99.8	22.7	2	04/09/18 07:13	04/10/18 22:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	60-140		2	04/09/18 07:13	04/10/18 22:18	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		2	04/09/18 07:13	04/10/18 22:18	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.5**	%	0.030	0.030	1		04/10/18 06:28		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-YP-09 **Lab ID: 40157487002** Collected: 06/14/17 11:06 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.9**	ug/kg	100	22.9	2	04/09/18 07:13	04/10/18 22:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**57.8J**	ug/kg	100	22.9	2	04/09/18 07:13	04/10/18 22:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.9**	ug/kg	100	22.9	2	04/09/18 07:13	04/10/18 22:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.9**	ug/kg	100	22.9	2	04/09/18 07:13	04/10/18 22:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**395**	ug/kg	100	22.9	2	04/09/18 07:13	04/10/18 22:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**220**	ug/kg	100	22.9	2	04/09/18 07:13	04/10/18 22:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**66.9J**	ug/kg	100	22.9	2	04/09/18 07:13	04/10/18 22:33	11096-82-5	
PCB, Total	**739**	ug/kg	100	22.9	2	04/09/18 07:13	04/10/18 22:33	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		2	04/09/18 07:13	04/10/18 22:33	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		2	04/09/18 07:13	04/10/18 22:33	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.5**	%	0.030	0.030	1		04/10/18 06:28		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-YP-08 **Lab ID: 40157487003** Collected: 06/14/17 11:03 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	100	22.8	2	04/09/18 07:13	04/10/18 23:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	100	22.8	2	04/09/18 07:13	04/10/18 23:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	100	22.8	2	04/09/18 07:13	04/10/18 23:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	100	22.8	2	04/09/18 07:13	04/10/18 23:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**267**	ug/kg	100	22.8	2	04/09/18 07:13	04/10/18 23:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**181**	ug/kg	100	22.8	2	04/09/18 07:13	04/10/18 23:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**52.0J**	ug/kg	100	22.8	2	04/09/18 07:13	04/10/18 23:21	11096-82-5	
PCB, Total	**500**	ug/kg	100	22.8	2	04/09/18 07:13	04/10/18 23:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		2	04/09/18 07:13	04/10/18 23:21	877-09-8	
Decachlorobiphenyl (S)	99	%	60-140		2	04/09/18 07:13	04/10/18 23:21	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		04/10/18 06:28		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-YP-07 **Lab ID: 40157487004** Collected: 06/14/17 11:01 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	04/09/18 07:13	04/10/18 23:37	12674-11-2	
PCB-1221 (Aroclor 1221)	**30.3J**	ug/kg	49.9	11.4	1	04/09/18 07:13	04/10/18 23:37	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/09/18 07:13	04/10/18 23:37	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/09/18 07:13	04/10/18 23:37	53469-21-9	
PCB-1248 (Aroclor 1248)	**113**	ug/kg	49.9	11.4	1	04/09/18 07:13	04/10/18 23:37	12672-29-6	
PCB-1254 (Aroclor 1254)	**72.6**	ug/kg	49.9	11.4	1	04/09/18 07:13	04/10/18 23:37	11097-69-1	
PCB-1260 (Aroclor 1260)	**19.7J**	ug/kg	49.9	11.4	1	04/09/18 07:13	04/10/18 23:37	11096-82-5	
PCB, Total	**236**	ug/kg	49.9	11.4	1	04/09/18 07:13	04/10/18 23:37	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		1	04/09/18 07:13	04/10/18 23:37	877-09-8	
Decachlorobiphenyl (S)	89	%	60-140		1	04/09/18 07:13	04/10/18 23:37	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.61**	%	0.030	0.030	1		04/10/18 06:28		

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-YP-06 **Lab ID: 40157487005** Collected: 06/14/17 10:59 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.7**	ug/kg	99.7	22.7	2	04/09/18 07:13	04/10/18 23:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.7**	ug/kg	99.7	22.7	2	04/09/18 07:13	04/10/18 23:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.7**	ug/kg	99.7	22.7	2	04/09/18 07:13	04/10/18 23:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.7**	ug/kg	99.7	22.7	2	04/09/18 07:13	04/10/18 23:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**313**	ug/kg	99.7	22.7	2	04/09/18 07:13	04/10/18 23:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**171**	ug/kg	99.7	22.7	2	04/09/18 07:13	04/10/18 23:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**46.2J**	ug/kg	99.7	22.7	2	04/09/18 07:13	04/10/18 23:53	11096-82-5	
PCB, Total	**530**	ug/kg	99.7	22.7	2	04/09/18 07:13	04/10/18 23:53	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		2	04/09/18 07:13	04/10/18 23:53	877-09-8	
Decachlorobiphenyl (S)	101	%	60-140		2	04/09/18 07:13	04/10/18 23:53	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		04/10/18 06:28		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-YP-05 **Lab ID: 40157487006** Collected: 06/14/17 10:57 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	04/09/18 07:13	04/11/18 00:09	12674-11-2	
PCB-1221 (Aroclor 1221)	**86.9**	ug/kg	50.0	11.4	1	04/09/18 07:13	04/11/18 00:09	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/09/18 07:13	04/11/18 00:09	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/09/18 07:13	04/11/18 00:09	53469-21-9	
PCB-1248 (Aroclor 1248)	**261**	ug/kg	50.0	11.4	1	04/09/18 07:13	04/11/18 00:09	12672-29-6	
PCB-1254 (Aroclor 1254)	**205**	ug/kg	50.0	11.4	1	04/09/18 07:13	04/11/18 00:09	11097-69-1	
PCB-1260 (Aroclor 1260)	**72.1**	ug/kg	50.0	11.4	1	04/09/18 07:13	04/11/18 00:09	11096-82-5	
PCB, Total	**625**	ug/kg	50.0	11.4	1	04/09/18 07:13	04/11/18 00:09	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	102	%	60-140		1	04/09/18 07:13	04/11/18 00:09	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		1	04/09/18 07:13	04/11/18 00:09	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		04/10/18 06:28		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-YP-04 **Lab ID: 40157487007** Collected: 06/14/17 10:55 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	99.9	22.8	2	04/09/18 07:13	04/11/18 00:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**142**	ug/kg	99.9	22.8	2	04/09/18 07:13	04/11/18 00:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.9	22.8	2	04/09/18 07:13	04/11/18 00:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.9	22.8	2	04/09/18 07:13	04/11/18 00:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**318**	ug/kg	99.9	22.8	2	04/09/18 07:13	04/11/18 00:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**222**	ug/kg	99.9	22.8	2	04/09/18 07:13	04/11/18 00:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**78.2J**	ug/kg	99.9	22.8	2	04/09/18 07:13	04/11/18 00:24	11096-82-5	
PCB, Total	**761**	ug/kg	99.9	22.8	2	04/09/18 07:13	04/11/18 00:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	60-140		2	04/09/18 07:13	04/11/18 00:24	877-09-8	
Decachlorobiphenyl (S)	100	%	60-140		2	04/09/18 07:13	04/11/18 00:24	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		04/10/18 06:28		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-YP-03 **Lab ID: 40157487008** Collected: 06/14/17 10:53 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<45.7**	ug/kg	200	45.7	4	04/09/18 07:13	04/11/18 00:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**191J**	ug/kg	200	45.7	4	04/09/18 07:13	04/11/18 00:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.7**	ug/kg	200	45.7	4	04/09/18 07:13	04/11/18 00:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.7**	ug/kg	200	45.7	4	04/09/18 07:13	04/11/18 00:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**857**	ug/kg	200	45.7	4	04/09/18 07:13	04/11/18 00:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**421**	ug/kg	200	45.7	4	04/09/18 07:13	04/11/18 00:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**85.9J**	ug/kg	200	45.7	4	04/09/18 07:13	04/11/18 00:40	11096-82-5	
PCB, Total	**1550**	ug/kg	200	45.7	4	04/09/18 07:13	04/11/18 00:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	100	%	60-140		4	04/09/18 07:13	04/11/18 00:40	877-09-8	
Decachlorobiphenyl (S)	111	%	60-140		4	04/09/18 07:13	04/11/18 00:40	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.3**	%	0.030	0.030	1		04/10/18 06:28		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-YP-02 **Lab ID: 40157487009** Collected: 06/14/17 10:51 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<45.5**	ug/kg	199	45.5	4	04/09/18 07:13	04/11/18 00:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.5**	ug/kg	199	45.5	4	04/09/18 07:13	04/11/18 00:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.5**	ug/kg	199	45.5	4	04/09/18 07:13	04/11/18 00:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.5**	ug/kg	199	45.5	4	04/09/18 07:13	04/11/18 00:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**511**	ug/kg	199	45.5	4	04/09/18 07:13	04/11/18 00:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**680**	ug/kg	199	45.5	4	04/09/18 07:13	04/11/18 00:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**239**	ug/kg	199	45.5	4	04/09/18 07:13	04/11/18 00:56	11096-82-5	
PCB, Total	**1430**	ug/kg	199	45.5	4	04/09/18 07:13	04/11/18 00:56	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		4	04/09/18 07:13	04/11/18 00:56	877-09-8	
Decachlorobiphenyl (S)	104	%	60-140		4	04/09/18 07:13	04/11/18 00:56	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:06		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.39**	%	0.030	0.030	1		04/10/18 06:28		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-YP-01 **Lab ID: 40157487010** Collected: 06/14/17 10:49 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	99.8	22.8	2	04/09/18 07:13	04/11/18 01:12	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	99.8	22.8	2	04/09/18 07:13	04/11/18 01:12	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.8	22.8	2	04/09/18 07:13	04/11/18 01:12	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.8	22.8	2	04/09/18 07:13	04/11/18 01:12	53469-21-9	
PCB-1248 (Aroclor 1248)	**297**	ug/kg	99.8	22.8	2	04/09/18 07:13	04/11/18 01:12	12672-29-6	
PCB-1254 (Aroclor 1254)	**179**	ug/kg	99.8	22.8	2	04/09/18 07:13	04/11/18 01:12	11097-69-1	
PCB-1260 (Aroclor 1260)	**46.8J**	ug/kg	99.8	22.8	2	04/09/18 07:13	04/11/18 01:12	11096-82-5	
PCB, Total	**522**	ug/kg	99.8	22.8	2	04/09/18 07:13	04/11/18 01:12	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		2	04/09/18 07:13	04/11/18 01:12	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		2	04/09/18 07:13	04/11/18 01:12	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.0**	%	0.030	0.030	1		04/10/18 06:28		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-LMB-10 **Lab ID: 40157487011** Collected: 06/14/17 10:11 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<57.0**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 17:03	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.0**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 17:03	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.0**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 17:03	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.0**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 17:03	53469-21-9	
PCB-1248 (Aroclor 1248)	**869**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 17:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**1030**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 17:03	11097-69-1	
PCB-1260 (Aroclor 1260)	**371**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 17:03	11096-82-5	
PCB, Total	**2270**	ug/kg	250	57.0	5	03/30/18 07:22	04/02/18 17:03	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		5	03/30/18 07:22	04/02/18 17:03	877-09-8	
Decachlorobiphenyl (S)	108	%	60-140		5	03/30/18 07:22	04/02/18 17:03	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.23**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-LMB-09 **Lab ID: 40157487012** Collected: 06/14/17 10:09 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 17:19	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 17:19	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 17:19	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 17:19	53469-21-9	
PCB-1248 (Aroclor 1248)	**123**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 17:19	12672-29-6	
PCB-1254 (Aroclor 1254)	**109**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 17:19	11097-69-1	
PCB-1260 (Aroclor 1260)	**40.4J**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 17:19	11096-82-5	
PCB, Total	**272**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 17:19	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	60-140		1	03/30/18 07:22	04/02/18 17:19	877-09-8	
Decachlorobiphenyl (S)	96	%	60-140		1	03/30/18 07:22	04/02/18 17:19	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		03/30/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.27**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-LMB-08 **Lab ID: 40157487013** Collected: 06/14/17 10:06 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<56.9**	ug/kg	250	56.9	5	03/30/18 07:22	04/02/18 17:35	12674-11-2	
PCB-1221 (Aroclor 1221)	**<56.9**	ug/kg	250	56.9	5	03/30/18 07:22	04/02/18 17:35	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.9**	ug/kg	250	56.9	5	03/30/18 07:22	04/02/18 17:35	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.9**	ug/kg	250	56.9	5	03/30/18 07:22	04/02/18 17:35	53469-21-9	
PCB-1248 (Aroclor 1248)	**799**	ug/kg	250	56.9	5	03/30/18 07:22	04/02/18 17:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**722**	ug/kg	250	56.9	5	03/30/18 07:22	04/02/18 17:35	11097-69-1	
PCB-1260 (Aroclor 1260)	**212J**	ug/kg	250	56.9	5	03/30/18 07:22	04/02/18 17:35	11096-82-5	
PCB, Total	**1730**	ug/kg	250	56.9	5	03/30/18 07:22	04/02/18 17:35	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	60-140		5	03/30/18 07:22	04/02/18 17:35	877-09-8	
Decachlorobiphenyl (S)	105	%	60-140		5	03/30/18 07:22	04/02/18 17:35	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.17**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-LMB-07 **Lab ID: 40157487014** Collected: 06/14/17 10:04 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<57.1**	ug/kg	251	57.1	5	03/30/18 07:22	04/02/18 17:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<57.1**	ug/kg	251	57.1	5	03/30/18 07:22	04/02/18 17:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<57.1**	ug/kg	251	57.1	5	03/30/18 07:22	04/02/18 17:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.1**	ug/kg	251	57.1	5	03/30/18 07:22	04/02/18 17:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**904**	ug/kg	251	57.1	5	03/30/18 07:22	04/02/18 17:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**803**	ug/kg	251	57.1	5	03/30/18 07:22	04/02/18 17:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**303**	ug/kg	251	57.1	5	03/30/18 07:22	04/02/18 17:51	11096-82-5	
PCB, Total	**2010**	ug/kg	251	57.1	5	03/30/18 07:22	04/02/18 17:51	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		5	03/30/18 07:22	04/02/18 17:51	877-09-8	
Decachlorobiphenyl (S)	108	%	60-140		5	03/30/18 07:22	04/02/18 17:51	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.47**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-LMB-06 **Lab ID: 40157487015** Collected: 06/14/17 10:00 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	502	114	10	03/30/18 07:22	04/02/18 18:07	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	502	114	10	03/30/18 07:22	04/02/18 18:07	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	502	114	10	03/30/18 07:22	04/02/18 18:07	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	502	114	10	03/30/18 07:22	04/02/18 18:07	53469-21-9	
PCB-1248 (Aroclor 1248)	**1500**	ug/kg	502	114	10	03/30/18 07:22	04/02/18 18:07	12672-29-6	
PCB-1254 (Aroclor 1254)	**1130**	ug/kg	502	114	10	03/30/18 07:22	04/02/18 18:07	11097-69-1	
PCB-1260 (Aroclor 1260)	**340J**	ug/kg	502	114	10	03/30/18 07:22	04/02/18 18:07	11096-82-5	
PCB, Total	**2980**	ug/kg	502	114	10	03/30/18 07:22	04/02/18 18:07	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		10	03/30/18 07:22	04/02/18 18:07	877-09-8	
Decachlorobiphenyl (S)	113	%	60-140		10	03/30/18 07:22	04/02/18 18:07	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.2**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-LMB-05 **Lab ID: 40157487016** Collected: 06/14/17 09:58 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<45.5**	ug/kg	199	45.5	4	03/30/18 07:22	04/02/18 18:54	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.5**	ug/kg	199	45.5	4	03/30/18 07:22	04/02/18 18:54	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.5**	ug/kg	199	45.5	4	03/30/18 07:22	04/02/18 18:54	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.5**	ug/kg	199	45.5	4	03/30/18 07:22	04/02/18 18:54	53469-21-9	
PCB-1248 (Aroclor 1248)	**536**	ug/kg	199	45.5	4	03/30/18 07:22	04/02/18 18:54	12672-29-6	
PCB-1254 (Aroclor 1254)	**547**	ug/kg	199	45.5	4	03/30/18 07:22	04/02/18 18:54	11097-69-1	
PCB-1260 (Aroclor 1260)	**202**	ug/kg	199	45.5	4	03/30/18 07:22	04/02/18 18:54	11096-82-5	
PCB, Total	**1290**	ug/kg	199	45.5	4	03/30/18 07:22	04/02/18 18:54	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		4	03/30/18 07:22	04/02/18 18:54	877-09-8	
Decachlorobiphenyl (S)	109	%	60-140		4	03/30/18 07:22	04/02/18 18:54	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.27**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-LMB-04 **Lab ID: 40157487017** Collected: 06/14/17 09:54 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 19:10	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 19:10	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 19:10	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 19:10	53469-21-9	
PCB-1248 (Aroclor 1248)	**878**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 19:10	12672-29-6	
PCB-1254 (Aroclor 1254)	**1100**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 19:10	11097-69-1	
PCB-1260 (Aroclor 1260)	**384J**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 19:10	11096-82-5	
PCB, Total	**2370**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 19:10	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	60-140		10	03/30/18 07:22	04/02/18 19:10	877-09-8	
Decachlorobiphenyl (S)	107	%	60-140		10	03/30/18 07:22	04/02/18 19:10	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.28**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-LMB-03 **Lab ID: 40157487018** Collected: 06/14/17 09:52 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 19:58	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 19:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 19:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 19:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**238**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 19:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**218**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 19:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**85.0**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 19:58	11096-82-5	
PCB, Total	**542**	ug/kg	50.1	11.4	1	03/30/18 07:22	04/02/18 19:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	76	%	60-140		1	03/30/18 07:22	04/02/18 19:58	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	03/30/18 07:22	04/02/18 19:58	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.22**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-LMB-02 **Lab ID: 40157487019** Collected: 06/14/17 09:49 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<56.9**	ug/kg	249	56.9	5	03/30/18 07:22	04/02/18 20:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<56.9**	ug/kg	249	56.9	5	03/30/18 07:22	04/02/18 20:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.9**	ug/kg	249	56.9	5	03/30/18 07:22	04/02/18 20:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.9**	ug/kg	249	56.9	5	03/30/18 07:22	04/02/18 20:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**254**	ug/kg	249	56.9	5	03/30/18 07:22	04/02/18 20:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**236J**	ug/kg	249	56.9	5	03/30/18 07:22	04/02/18 20:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**95.8J**	ug/kg	249	56.9	5	03/30/18 07:22	04/02/18 20:14	11096-82-5	
PCB, Total	**585**	ug/kg	249	56.9	5	03/30/18 07:22	04/02/18 20:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	60-140		5	03/30/18 07:22	04/02/18 20:14	877-09-8	
Decachlorobiphenyl (S)	99	%	60-140		5	03/30/18 07:22	04/02/18 20:14	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.26**	%	0.030	0.030	1		04/02/18 06:18		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Sample: SW3-170614-01-LMB-01 **Lab ID: 40157487020** Collected: 06/14/17 09:46 Received: 09/27/17 10:20 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<114**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 20:29	12674-11-2	
PCB-1221 (Aroclor 1221)	**<114**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 20:29	11104-28-2	
PCB-1232 (Aroclor 1232)	**<114**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 20:29	11141-16-5	
PCB-1242 (Aroclor 1242)	**<114**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 20:29	53469-21-9	
PCB-1248 (Aroclor 1248)	**808**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 20:29	12672-29-6	
PCB-1254 (Aroclor 1254)	**787**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 20:29	11097-69-1	
PCB-1260 (Aroclor 1260)	**258J**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 20:29	11096-82-5	
PCB, Total	**1850**	ug/kg	499	114	10	03/30/18 07:22	04/02/18 20:29	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	60-140		10	03/30/18 07:22	04/02/18 20:29	877-09-8	
Decachlorobiphenyl (S)	107	%	60-140		10	03/30/18 07:22	04/02/18 20:29	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		03/30/18 12:07		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.60**	%	0.030	0.030	1		04/02/18 06:18		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

QC Batch: 284719 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157487011, 40157487012, 40157487013, 40157487014, 40157487015, 40157487016, 40157487017, 40157487018, 40157487019, 40157487020

METHOD BLANK: 1666454 | Matrix: Tissue
Associated Lab Samples: 40157487011, 40157487012, 40157487013, 40157487014, 40157487015, 40157487016, 40157487017, 40157487018, 40157487019, 40157487020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/02/18 16:16	
Decachlorobiphenyl (S)	%	95	60-140		04/02/18 16:16	
Tetrachloro-m-xylene (S)	%	76	60-140		04/02/18 16:16	

LABORATORY CONTROL SAMPLE: 1666455

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	239	96	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			97	60-140	
Tetrachloro-m-xylene (S)	%			86	60-140	

MATRIX SPIKE SAMPLE: 1666456

Parameter	Units	40157487017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<114		<114			
PCB-1221 (Aroclor 1221)	ug/kg	<114		<114			
PCB-1232 (Aroclor 1232)	ug/kg	<114		<114			
PCB-1242 (Aroclor 1242)	ug/kg	<114	250	313J	125	70-130	M6
PCB-1248 (Aroclor 1248)	ug/kg	878		907			
PCB-1254 (Aroclor 1254)	ug/kg	1100		971			
PCB-1260 (Aroclor 1260)	ug/kg	384J		322J			
Decachlorobiphenyl (S)	%				106	60-140	
Tetrachloro-m-xylene (S)	%				78	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.: 40157487

SAMPLE DUPLICATE: 1666457

Parameter	Units	40157487017 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<114	<114		40	
PCB-1221 (Aroclor 1221)	ug/kg	<114	<114		40	
PCB-1232 (Aroclor 1232)	ug/kg	<114	<114		40	
PCB-1242 (Aroclor 1242)	ug/kg	<114	<114		40	
PCB-1248 (Aroclor 1248)	ug/kg	878	789	11	40	
PCB-1254 (Aroclor 1254)	ug/kg	1100	990	11	40	
PCB-1260 (Aroclor 1260)	ug/kg	384J	360J		40	
Decachlorobiphenyl (S)	%	107	99	8		
Tetrachloro-m-xylene (S)	%	81	69	15		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

QC Batch: 285467 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40157487001, 40157487002, 40157487003, 40157487004, 40157487005, 40157487006, 40157487007, 40157487008, 40157487009, 40157487010

METHOD BLANK: 1670714 | Matrix: Tissue
Associated Lab Samples: 40157487001, 40157487002, 40157487003, 40157487004, 40157487005, 40157487006, 40157487007, 40157487008, 40157487009, 40157487010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	04/10/18 21:46	
Decachlorobiphenyl (S)	%	93	60-140		04/10/18 21:46	
Tetrachloro-m-xylene (S)	%	76	60-140		04/10/18 21:46	

LABORATORY CONTROL SAMPLE: 1670715

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	220	88	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			90	60-140	
Tetrachloro-m-xylene (S)	%			76	60-140	

MATRIX SPIKE SAMPLE: 1670716

Parameter	Units	40157832003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.8		<22.8			
PCB-1221 (Aroclor 1221)	ug/kg	<22.8		<22.8			
PCB-1232 (Aroclor 1232)	ug/kg	<22.8		<22.8			
PCB-1242 (Aroclor 1242)	ug/kg	<22.8	250	312	125	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	195		327			
PCB-1254 (Aroclor 1254)	ug/kg	132		139			
PCB-1260 (Aroclor 1260)	ug/kg	105		87.7J			
Decachlorobiphenyl (S)	%				101	60-140	
Tetrachloro-m-xylene (S)	%				91	60-140	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

SAMPLE DUPLICATE: 1670717

Parameter	Units	40157832003 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.8	<22.8		40	
PCB-1221 (Aroclor 1221)	ug/kg	<22.8	<22.8		40	
PCB-1232 (Aroclor 1232)	ug/kg	<22.8	<22.8		40	
PCB-1242 (Aroclor 1242)	ug/kg	<22.8	<22.8		40	
PCB-1248 (Aroclor 1248)	ug/kg	195	252	25	40	
PCB-1254 (Aroclor 1254)	ug/kg	132	170	25	40	
PCB-1260 (Aroclor 1260)	ug/kg	105	133	24	40	
Decachlorobiphenyl (S)	%	97	103	6		
Tetrachloro-m-xylene (S)	%	86	95	10		

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

QC Batch: 284832 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157487011, 40157487012, 40157487013, 40157487014, 40157487015, 40157487016, 40157487017, 40157487018, 40157487019, 40157487020

METHOD BLANK: 1667515 | Matrix: Tissue
Associated Lab Samples: 40157487011, 40157487012, 40157487013, 40157487014, 40157487015, 40157487016, 40157487017, 40157487018, 40157487019, 40157487020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/02/18 06:18	

MATRIX SPIKE SAMPLE: 1682573

Parameter	Units	40157487017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.28		0.26			

SAMPLE DUPLICATE: 1667518

Parameter	Units	40157487017 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.28	0.23	22	40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

QC Batch: 285570 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40157487001, 40157487002, 40157487003, 40157487004, 40157487005, 40157487006, 40157487007, 40157487008, 40157487009, 40157487010

METHOD BLANK: 1671073 | Matrix: Tissue
Associated Lab Samples: 40157487001, 40157487002, 40157487003, 40157487004, 40157487005, 40157487006, 40157487007, 40157487008, 40157487009, 40157487010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/10/18 06:28	

MATRIX SPIKE SAMPLE: 1682835

Parameter	Units	40157832003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	0.71		0.66			

SAMPLE DUPLICATE: 1671076

Parameter	Units	40157832003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	0.71	0.86	19	40	

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

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
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(920)469-2436

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

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

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157487001	**SW3-170614-01-YP-10**	EPA 3541	285467	EPA 8082A Mod	285591
40157487002	**SW3-170614-01-YP-09**	EPA 3541	285467	EPA 8082A Mod	285591
40157487003	**SW3-170614-01-YP-08**	EPA 3541	285467	EPA 8082A Mod	285591
40157487004	**SW3-170614-01-YP-07**	EPA 3541	285467	EPA 8082A Mod	285591
40157487005	**SW3-170614-01-YP-06**	EPA 3541	285467	EPA 8082A Mod	285591
40157487006	**SW3-170614-01-YP-05**	EPA 3541	285467	EPA 8082A Mod	285591
40157487007	**SW3-170614-01-YP-04**	EPA 3541	285467	EPA 8082A Mod	285591
40157487008	**SW3-170614-01-YP-03**	EPA 3541	285467	EPA 8082A Mod	285591
40157487009	**SW3-170614-01-YP-02**	EPA 3541	285467	EPA 8082A Mod	285591
40157487010	**SW3-170614-01-YP-01**	EPA 3541	285467	EPA 8082A Mod	285591
40157487011	**SW3-170614-01-LMB-10**	EPA 3541	284719	EPA 8082A Mod	284860
40157487012	**SW3-170614-01-LMB-09**	EPA 3541	284719	EPA 8082A Mod	284860
40157487013	**SW3-170614-01-LMB-08**	EPA 3541	284719	EPA 8082A Mod	284860
40157487014	**SW3-170614-01-LMB-07**	EPA 3541	284719	EPA 8082A Mod	284860
40157487015	**SW3-170614-01-LMB-06**	EPA 3541	284719	EPA 8082A Mod	284860
40157487016	**SW3-170614-01-LMB-05**	EPA 3541	284719	EPA 8082A Mod	284860
40157487017	**SW3-170614-01-LMB-04**	EPA 3541	284719	EPA 8082A Mod	284860
40157487018	**SW3-170614-01-LMB-03**	EPA 3541	284719	EPA 8082A Mod	284860
40157487019	**SW3-170614-01-LMB-02**	EPA 3541	284719	EPA 8082A Mod	284860
40157487020	**SW3-170614-01-LMB-01**	EPA 3541	284719	EPA 8082A Mod	284860
40157487001	**SW3-170614-01-YP-10**	Pace Gender Typing	284773		
40157487002	**SW3-170614-01-YP-09**	Pace Gender Typing	284773		
40157487003	**SW3-170614-01-YP-08**	Pace Gender Typing	284773		
40157487004	**SW3-170614-01-YP-07**	Pace Gender Typing	284773		
40157487005	**SW3-170614-01-YP-06**	Pace Gender Typing	284773		
40157487006	**SW3-170614-01-YP-05**	Pace Gender Typing	284773		
40157487007	**SW3-170614-01-YP-04**	Pace Gender Typing	284773		
40157487008	**SW3-170614-01-YP-03**	Pace Gender Typing	284773		
40157487009	**SW3-170614-01-YP-02**	Pace Gender Typing	284773		
40157487010	**SW3-170614-01-YP-01**	Pace Gender Typing	284773		
40157487011	**SW3-170614-01-LMB-10**	Pace Gender Typing	284773		
40157487012	**SW3-170614-01-LMB-09**	Pace Gender Typing	284773		
40157487013	**SW3-170614-01-LMB-08**	Pace Gender Typing	284773		
40157487014	**SW3-170614-01-LMB-07**	Pace Gender Typing	284773		
40157487015	**SW3-170614-01-LMB-06**	Pace Gender Typing	284773		
40157487016	**SW3-170614-01-LMB-05**	Pace Gender Typing	284773		
40157487017	**SW3-170614-01-LMB-04**	Pace Gender Typing	284773		
40157487018	**SW3-170614-01-LMB-03**	Pace Gender Typing	284773		
40157487019	**SW3-170614-01-LMB-02**	Pace Gender Typing	284773		
40157487020	**SW3-170614-01-LMB-01**	Pace Gender Typing	284773		
40157487001	**SW3-170614-01-YP-10**	Pace Lipid	285570		
40157487002	**SW3-170614-01-YP-09**	Pace Lipid	285570		
40157487003	**SW3-170614-01-YP-08**	Pace Lipid	285570		
40157487004	**SW3-170614-01-YP-07**	Pace Lipid	285570		
40157487005	**SW3-170614-01-YP-06**	Pace Lipid	285570		
40157487006	**SW3-170614-01-YP-05**	Pace Lipid	285570		
40157487007	**SW3-170614-01-YP-04**	Pace Lipid	285570		

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40157487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157487008	**SW3-170614-01-YP-03**	Pace Lipid	285570		
40157487009	**SW3-170614-01-YP-02**	Pace Lipid	285570		
40157487010	**SW3-170614-01-YP-01**	Pace Lipid	285570		
40157487011	**SW3-170614-01-LMB-10**	Pace Lipid	284832		
40157487012	**SW3-170614-01-LMB-09**	Pace Lipid	284832		
40157487013	**SW3-170614-01-LMB-08**	Pace Lipid	284832		
40157487014	**SW3-170614-01-LMB-07**	Pace Lipid	284832		
40157487015	**SW3-170614-01-LMB-06**	Pace Lipid	284832		
40157487016	**SW3-170614-01-LMB-05**	Pace Lipid	284832		
40157487017	**SW3-170614-01-LMB-04**	Pace Lipid	284832		
40157487018	**SW3-170614-01-LMB-03**	Pace Lipid	284832		
40157487019	**SW3-170614-01-LMB-02**	Pace Lipid	284832		
40157487020	**SW3-170614-01-LMB-01**	Pace Lipid	284832		

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ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170614-T11-01
Sample Custodian: MCS
Lab: Pace - Green Bay

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

OK 7-27-17 KR

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	SW3-170614-01	SW3-170614-01-YP-10	6/14/2017	11:08	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	1-ziploc
002	SW3-170614-01	SW3-170614-01-YP-09	6/14/2017	11:06	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
003	SW3-170614-01	SW3-170614-01-YP-08	6/14/2017	11:03	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
004	SW3-170614-01	SW3-170614-01-YP-07	6/14/2017	11:01	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
005	SW3-170614-01	SW3-170614-01-YP-06	6/14/2017	10:59	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
006	SW3-170614-01	SW3-170614-01-YP-05	6/14/2017	10:57	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
007	SW3-170614-01	SW3-170614-01-YP-04	6/14/2017	10:55	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
008	SW3-170614-01	SW3-170614-01-YP-03	6/14/2017	10:53	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
009	SW3-170614-01	SW3-170614-01-YP-02	6/14/2017	10:51	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	
010	SW3-170614-01	SW3-170614-01-YP-01	6/14/2017	10:49	☐	1	F	FLRC	☐	☐	☐	✔	✔	✔	✓

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [signature]	Signature [signature]	Signature [signature] VIA FED EX	Signature	Signature Fed Ex	Signature Kim Retzke Pace
Print Name Jim Ryan	Print Name A. Bittig	Print Name A. Bittig	Print Name	Print Name	Print Name Kim Retzke
Company Anchor QEA	Company PACE Temp: -0.4, -0.4, -0.3	Company PACE	Company	Company	Company Pace
Date/Time 6/15/17 8:00	Date/Time 6/15/17 08:00	Date/Time 9/26/17 16:00	Date/Time	Date/Time 9/27/17 1020	Date/Time 9/27/17 1020

Date Printed: 6/14/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170614-T11-01
Sample Custodian: MCS
Lab: Pace - Green Bay

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

OK 7-27-17

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
011	SW3-170614-01	SW3-170614-01-LMB-10	6/14/2017	10:11	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	1-ziploc
012	SW3-170614-01	SW3-170614-01-LMB-09	6/14/2017	10:09	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
013	SW3-170614-01	SW3-170614-01-LMB-08	6/14/2017	10:06	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
014	SW3-170614-01	SW3-170614-01-LMB-07	6/14/2017	10:04	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
015	SW3-170614-01	SW3-170614-01-LMB-06	6/14/2017	10:00	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
016	SW3-170614-01	SW3-170614-01-LMB-05	6/14/2017	9:58	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
017	SW3-170614-01	SW3-170614-01-LMB-04	6/14/2017	9:54	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	
018	SW3-170614-01	SW3-170614-01-LMB-03	6/14/2017	9:52	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
019	SW3-170614-01	SW3-170614-01-LMB-02	6/14/2017	9:49	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
020	SW3-170614-01	SW3-170614-01-LMB-01	6/14/2017	9:46	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [illegible]	Signature [illegible]	Signature [illegible] VIA FEDEX	Signature	Signature Fed Ex	Signature [illegible]
Print Name Jim Ryan	Print Name A. Bittig	Print Name A. Bittig	Print Name	Print Name	Print Name
Company Anchor QEA	Company PACE Temp: -0.4, -0.4, -0.3	Company PACE	Company	Company	Company
Date/Time 6/15/17 8:00	Date/Time 6/15/17 08:00	Date/Time 9/26/17 16:00	Date/Time	Date/Time 9/27/17 1020	Date/Time 9/27/17 1020

Date Printed: 6/14/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal ***COC TYPE:*** *TPCB-LIPD-PEST-MERCURY* ***Page 2 of 2***

Sample Condition Upon Receipt

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

Pace Analytical™

Project #:

WO#: 40157487

40157487

Client Name: Anchor Qea

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

Tracking #: 4099 9470 4446 (1)

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-71 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 /Corr: 0 **Biological Tissue is Frozen:** ☑ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 9-27-17
Initials: KR

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

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt 9-27-17 KR	~~☑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: (1) 4099 9470 4468, 4099 9470 4457, 4099 9470 4479

Project Manager Review: AL for TN **Date:** 9-27-17

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40157487
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

Samples were received on ice at 0°C. Following homogenization, tissue samples were kept frozen at less than -10°C until time of preparation for analysis.

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

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

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

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

D. Spikes:
1. **Lab Control Spike (LCS):** The control spikes were fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Sample SW3-170614-01-LMB-04 was designated as the parent sample for the MS for extraction batch 284719 and one portion of the sample was fortified with Aroclor 1242. The MS required a 1:10 dilution to bring a non-fortified Aroclor within instrument calibration range. Spike levels are below the lowest calibration level when dilution factors are greater than five; therefore, the accuracy criteria for the MS are not applicable. The “M6” data qualifier was applied to the parent result on the final report.
3. **Matrix Spike (MS):** Batch QC was analyzed with extraction batch 285467 and one portion of the parent sample was fortified with Aroclor 1242. MS 1670716 required a 1:2 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were met.

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

F. Sample Duplicate: Sample SW3-170614-01-LMB-04 was designated as the duplicate for this SDG. The QAPP specified precision criteria were met. A batch duplicate was also analyzed with this SDG. Duplicate results are not evaluated below the reporting limit.

G. Dilutions:

Sample ID	Reason for dilution
SW3-170614-01-YP-10	To bring Aroclors within instrument calibration range
SW3-170614-01-YP-09	To bring Aroclors within instrument calibration range
SW3-170614-01-YP-08	To bring Aroclors within instrument calibration range
SW3-170614-01-YP-06	To bring Aroclors within instrument calibration range
SW3-170614-01-YP-04	To bring Aroclors within instrument calibration range
SW3-170614-01-YP-03	To bring Aroclors within instrument calibration range
SW3-170614-01-YP-02	To bring Aroclors within instrument calibration range
SW3-170614-01-YP-01	To bring Aroclors within instrument calibration range

Sample ID	Reason for dilution
SW3-170614-01-LMB-10	To bring Aroclors within instrument calibration range
SW3-170614-01-LMB-08	To bring Aroclors within instrument calibration range
SW3-170614-01-LMB-07	To bring Aroclors within instrument calibration range
SW3-170614-01-LMB-06	To bring Aroclors within instrument calibration range
SW3-170614-01-LMB-05	To bring Aroclors within instrument calibration range
SW3-170614-01-LMB-04	To bring Aroclors within instrument calibration range
SW3-170614-01-LMB-02	To bring Aroclors within instrument calibration range
SW3-170614-01-LMB-01	To bring Aroclors within instrument calibration range

H. **Reanalysis:** None required for this SDG.

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

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

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

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.: 40157487 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1666454	1666454BLANK	95	76
1666455	1666455LCS	97	86
1666456	1666456MS	106	78
1666457	1666457DUP	99	69
40157487011	SW3-170614-01-LMB-10	108	87
40157487012	SW3-170614-01-LMB-09	96	85
40157487013	SW3-170614-01-LMB-08	105	84
40157487014	SW3-170614-01-LMB-07	108	87
40157487015	SW3-170614-01-LMB-06	113	86
40157487016	SW3-170614-01-LMB-05	109	87
40157487017	SW3-170614-01-LMB-04	107	81
40157487018	SW3-170614-01-LMB-03	88	76
40157487019	SW3-170614-01-LMB-02	99	77
40157487020	SW3-170614-01-LMB-01	107	73

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

* Values outside of QC Limits

PCB - FORM II SVOA-2
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40157487 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1670714	1670714BLANK	93	76
1670715	1670715LCS	90	76
40157487001	SW3-170614-01-YP-10	96	94
40157487002	SW3-170614-01-YP-09	93	92
40157487003	SW3-170614-01-YP-08	99	96
40157487004	SW3-170614-01-YP-07	89	86
40157487005	SW3-170614-01-YP-06	101	96
40157487006	SW3-170614-01-YP-05	100	102
40157487007	SW3-170614-01-YP-04	100	95
40157487008	SW3-170614-01-YP-03	111	100
40157487009	SW3-170614-01-YP-02	104	85
40157487010	SW3-170614-01-YP-01	93	88

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

* Values outside of QC Limits

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/30/2018

Instrument: 40GCSJ

Lab File ID: 040218.B\040218009.D

Lab Sample ID: 1666455LCS

Date Analyzed (1): 04/02/2018

LCS Lot No: 192096

SDG No.: 40157487

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	239	96	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Lab Sample ID: 1670715LCS

Date Extracted: 04/09/2018

Date Analyzed (1): 04/10/2018

Instrument: 40GCSJ

LCS Lot No: 192096

Lab File ID: 041018.B\041018037.D

SDG No.: 40157487

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	220	88	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/30/2018

Instrument: 40GCSJ

Parent Sample ID: SW3-170614-01-LMB-04

Matrix Spike - Sample No: 1666456MS

Date Analyzed (1): 04/02/2018

Lab File ID: 040218.B\040218020.D

SDG No.: 40157487

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<114	313J	125	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: 04/09/2018

Instrument: 40GCSJ

Parent Sample ID: 40157832003

Matrix Spike - Sample No: 1670716MS

Date Analyzed (1): 04/11/2018

Lab File ID: 041018.B\041018060.D

SDG No.: 40157487

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<22.8	312	125	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/30/2018

Instrument 40GCSJ

Lab Sample ID: SW3-170614-01-LMB-04

Duplicate Sample No: 40157487017DUP

Date Analyzed: 04/02/2018

Lab File ID: 040218.B\040218021.D

SDG No.: 40157487

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<114	<114		0-40
PCB-1221 (Aroclor 1221)	<114	<114		0-40
PCB-1232 (Aroclor 1232)	<114	<114		0-40
PCB-1242 (Aroclor 1242)	<114	<114		0-40
PCB-1248 (Aroclor 1248)	878	789	11	0-40
PCB-1254 (Aroclor 1254)	1100	990	11	0-40
PCB-1260 (Aroclor 1260)	384J	360J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/09/2018

Instrument 40GCSJ

Lab Sample ID: 40157832003

Duplicate Sample No: 40157832003DUP

Date Analyzed: 04/11/2018

Lab File ID: 041018.B\041018061.D

SDG No.: 40157487

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<22.8	<22.8		0-40
PCB-1221 (Aroclor 1221)	<22.8	<22.8		0-40
PCB-1232 (Aroclor 1232)	<22.8	<22.8		0-40
PCB-1242 (Aroclor 1242)	<22.8	<22.8		0-40
PCB-1248 (Aroclor 1248)	195	252	25	0-40
PCB-1254 (Aroclor 1254)	132	170	25	0-40
PCB-1260 (Aroclor 1260)	105	133	24	0-40

RPD: 0 out of 3 outside limits.

SAMPLE NO.

1666454BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157487 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1666454

Lab File ID: 040218.B\040218008.D Date Analyzed: 04/02/2018 Time:16:16

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1666455LCS	1666455	040218.B\040218009.D	04/02/2018 16:32
SW3-170614-01-LMB-10	40157487011	040218.B\040218011.D	04/02/2018 17:03
SW3-170614-01-LMB-09	40157487012	040218.B\040218012.D	04/02/2018 17:19
SW3-170614-01-LMB-08	40157487013	040218.B\040218013.D	04/02/2018 17:35
SW3-170614-01-LMB-07	40157487014	040218.B\040218014.D	04/02/2018 17:51
SW3-170614-01-LMB-06	40157487015	040218.B\040218015.D	04/02/2018 18:07
SW3-170614-01-LMB-05	40157487016	040218.B\040218018.D	04/02/2018 18:54
SW3-170614-01-LMB-04	40157487017	040218.B\040218019.D	04/02/2018 19:10
1666456MS	1666456	040218.B\040218020.D	04/02/2018 19:26
1666457DUP	1666457	040218.B\040218021.D	04/02/2018 19:42
SW3-170614-01-LMB-03	40157487018	040218.B\040218022.D	04/02/2018 19:58
SW3-170614-01-LMB-02	40157487019	040218.B\040218023.D	04/02/2018 20:14
SW3-170614-01-LMB-01	40157487020	040218.B\040218024.D	04/02/2018 20:29

SAMPLE NO.

1670714BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40157487 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSJ Matrix: Tissue Lab Sample ID: 1670714

Lab File ID: 041018.B\041018036.D Date Analyzed: 04/10/2018 Time:21:46

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1670715LCS	1670715	041018.B\041018037.D	04/10/2018 22:02
SW3-170614-01-YP-10	40157487001	041018.B\041018038.D	04/10/2018 22:18
SW3-170614-01-YP-09	40157487002	041018.B\041018039.D	04/10/2018 22:33
SW3-170614-01-YP-08	40157487003	041018.B\041018042.D	04/10/2018 23:21
SW3-170614-01-YP-07	40157487004	041018.B\041018043.D	04/10/2018 23:37
SW3-170614-01-YP-06	40157487005	041018.B\041018044.D	04/10/2018 23:53
SW3-170614-01-YP-05	40157487006	041018.B\041018045.D	04/11/2018 00:09
SW3-170614-01-YP-04	40157487007	041018.B\041018046.D	04/11/2018 00:24
SW3-170614-01-YP-03	40157487008	041018.B\041018047.D	04/11/2018 00:40
SW3-170614-01-YP-02	40157487009	041018.B\041018048.D	04/11/2018 00:56
SW3-170614-01-YP-01	40157487010	041018.B\041018049.D	04/11/2018 01:12
1670717DUP	1670717	041018.B\041018061.D	04/11/2018 04:22

SAMPLE NO.

SW3-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 04/09/2018 07:13
Lab Sample ID: 40157487001
Date Analyzed: 04/10/2018 22:18
Lab File ID: 041018.B\041018038.D
Initial wt/vol: 10.0248 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	99.3	J
11141-16-5	PCB-1232 (Aroclor 1232)	<22.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	334	
11097-69-1	PCB-1254 (Aroclor 1254)	280	
11096-82-5	PCB-1260 (Aroclor 1260)	97.2	J
1336-36-3	PCB, Total	810	

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018038.D
Lab Smp Id: 40157487001 Client Smp ID: SW3-170614-01-YP-10
Inj Date : 10-APR-2018 22:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487001 x2,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.025	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.410	187263	143925	0.769	0.34		1 Aroclor 1221	BA
2.485	5797412	5481105	0.945	11.32	$	2 Tetrachloro-m-xylene	BA
2.686	17263	10234	0.593	0.03		1 Aroclor 1221	BA
2.786	25589	21854	0.854	0.04		1 Aroclor 1221	BA
2.852	67994	55926	0.823	0.12		1 Aroclor 1221	BA
2.983	37401	26150	0.699	0.06			
2.991	27291	30857	1.131	0.05			
3.018	37463	31827	0.850	0.06			
3.055	154309	137728	0.893	0.28			
3.317	97265	92688	0.953	0.18			
3.344	121884	114960	0.943	0.22			
3.433	234201	211582	0.903	0.43			
3.518	236274	206393	0.874	0.43			
3.646	31936	26258	0.822	0.05			
3.730	124989	124339	0.995	0.23			
3.756	69306	64058	0.924	0.12			
3.826	850671	496021	0.583	1.58			
3.938	190471	146951	0.772	0.35			
3.993	189558	171056	0.902	0.35			
4.058	96510	85712	0.888	0.17			
4.136	23646	19811	0.838	0.04			
4.215	1239593	1093909	0.882	2.30			
4.260	1217171	1150024	0.945	2.26		6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	1376582	1116137	0.811	2.56	
4.346	22810	19091	0.837	0.04	
4.417	474997	448302	0.944	0.88	
4.452	374458	326378	0.872	0.69	
4.545	975787	906799	0.929	1.81	6 Aroclor 1248
4.588	134524	119429	0.888	0.25	
4.615	97742	80682	0.825	0.18	
4.681	132686	114089	0.860	0.24	
4.735	195336	159091	0.814	0.36	
4.767	246726	229652	0.931	0.45	
4.813	703488	666503	0.947	1.30	6 Aroclor 1248
4.847	537603	503467	0.937	1.00	
4.879	2009315	1024304	0.510	3.74	6 Aroclor 1248
4.956	508281	438080	0.862	0.94	
5.037	622660	550314	0.884	1.15	6 Aroclor 1248
5.100	1039728	914539	0.880	1.93	
5.160	1572153	1319056	0.839	2.92	7 Aroclor 1254
5.212	1270432	1096669	0.863	2.36	
5.284	178048	162614	0.913	0.33	
5.307	308187	256064	0.831	0.57	
5.362	404441	357096	0.883	0.75	
5.405	971655	859902	0.885	1.80	7 Aroclor 1254
5.447	783924	648662	0.827	1.45	
5.478	200078	181942	0.909	0.37	
5.509	1745357	1477784	0.847	3.24	7 Aroclor 1254
5.577	162667	149717	0.920	0.30	
5.603	223594	182843	0.818	0.41	
5.674	876089	820981	0.937	1.63	
5.709	422286	333427	0.790	0.78	
5.741	508354	395059	0.777	0.94	
5.789	2559338	1903459	0.744	4.76	
5.885	304798	221605	0.727	0.56	
5.930	348952	284440	0.815	0.64	
5.993	710569	654394	0.921	1.32	
6.025	1084524	920443	0.849	2.01	7 Aroclor 1254
6.055	1889462	1611773	0.853	3.51	
6.167	505580	273486	0.541	0.94	
6.227	156978	177588	1.131	0.29	
6.241	291944	219557	0.752	0.54	
6.300	2785760	2301259	0.826	5.18	7 Aroclor 1254
6.331	260365	238157	0.915	0.48	
6.372	124807	91652	0.734	0.23	
6.430	516144	419786	0.813	0.96	
6.509	1182842	1072317	0.907	2.20	
6.534	386702	357732	0.925	0.71	
6.560	264478	226603	0.857	0.49	
6.604	95252	67135	0.705	0.17	
6.658	68380	55946	0.818	0.12	
6.718	275137	232719	0.846	0.51	
6.759	386877	319815	0.827	0.72	
6.800	347112	292894	0.844	0.64	
6.839	247090	188887	0.764	0.45	
6.911	53036	51056	0.963	0.09	
6.941	189895	170515	0.898	0.35	
7.004	728073	649140	0.892	1.35	8 Aroclor 1260
7.035	93077	82038	0.881	0.17	
7.070	11732	11748	1.001	0.02	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.122	53266	27391	0.514	0.09	
7.180	24911	11125	0.447	0.04	
7.251	346453	297342	0.858	0.64	8 Aroclor 1260
7.280	161327	122485	0.759	0.30	
7.337	33028	19314	0.585	0.06	
7.390	384822	351217	0.913	0.71	
7.442	449875	369647	0.822	0.83	8 Aroclor 1260
7.497	18886	15356	0.813	0.03	
7.550	20890	19160	0.917	0.03	
7.621	24475	15555	0.636	0.04	
7.662	15254	20527	1.346	0.02	
7.691	68819	69677	1.012	0.12	
7.726	116765	100117	0.857	0.21	
7.803	75902	45515	0.600	0.14	
7.898	238430	204516	0.858	0.44	8 Aroclor 1260
7.959	40560	22893	0.564	0.07	
8.047	37105	25907	0.698	0.06	
8.274	258880	226323	0.874	0.48	
8.571	5277947	4532338	0.859	9.82	$ 12 Decachlorobiphenyl
8.722	18894	10940	0.579	0.03	
9.170	28025	23481	0.838	0.05	
	53718867	45429011		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018038.D
Lab Smp Id: 40157487001 Client Smp ID: SW3-170614-01-YP-10
Inj Date : 10-APR-2018 22:18
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487001 x2,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 38
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.025	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.409	2.407	0.002	187262	0.34182	340	0.00- 20.00	0.00	BA
2.686	2.688	-0.002	17262	0.01248	12	0.00- 20.00	0.00	BA
2.786	2.789	-0.003	25588	0.02314	23	0.00- 20.00	0.00	BA
2.851	2.851	0.000	67994	0.02089	21	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					99			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5797411	0.04702	47		(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	1217170	0.51950	520	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	975786	0.23511	230	0.00- 20.00	80.17	BA
4.812	4.812	0.000	703488	0.34653	340	0.00- 20.00	57.80	BA
4.879	4.879	0.000	2009315	0.39888	400	0.00- 20.00	165.08	BA
5.036	5.038	-0.002	622659	0.17351	170	0.00- 20.00	51.16	BA
Average of Peak Concentrations =					330			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1572153	0.30030	300	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	971654	0.22591	220	0.00- 20.00	61.80	BA
5.509	5.510	-0.001	1745357	0.22474	220	0.00- 20.00	111.02	BA
6.025	6.027	-0.002	1084523	0.22271	220	0.00- 20.00	68.98	BA
6.300	6.299	0.001	2785759	0.42811	430	0.00- 20.00	177.19	BA
Average of Peak Concentrations =					280			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	728073	0.07270	72	0.00- 20.00	26.14	BA
7.251	7.251	0.000	346452	0.07248	72	0.00- 20.00	12.44	BA
7.442	7.443	-0.001	449874	0.15432	150	0.00- 20.00	16.15	BA
7.898	7.901	-0.003	238430	0.09036	90	0.00- 20.00	8.56	BA
Average of Peak Concentrations =					97			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5277946	0.04817	48			

QC Flag Legend

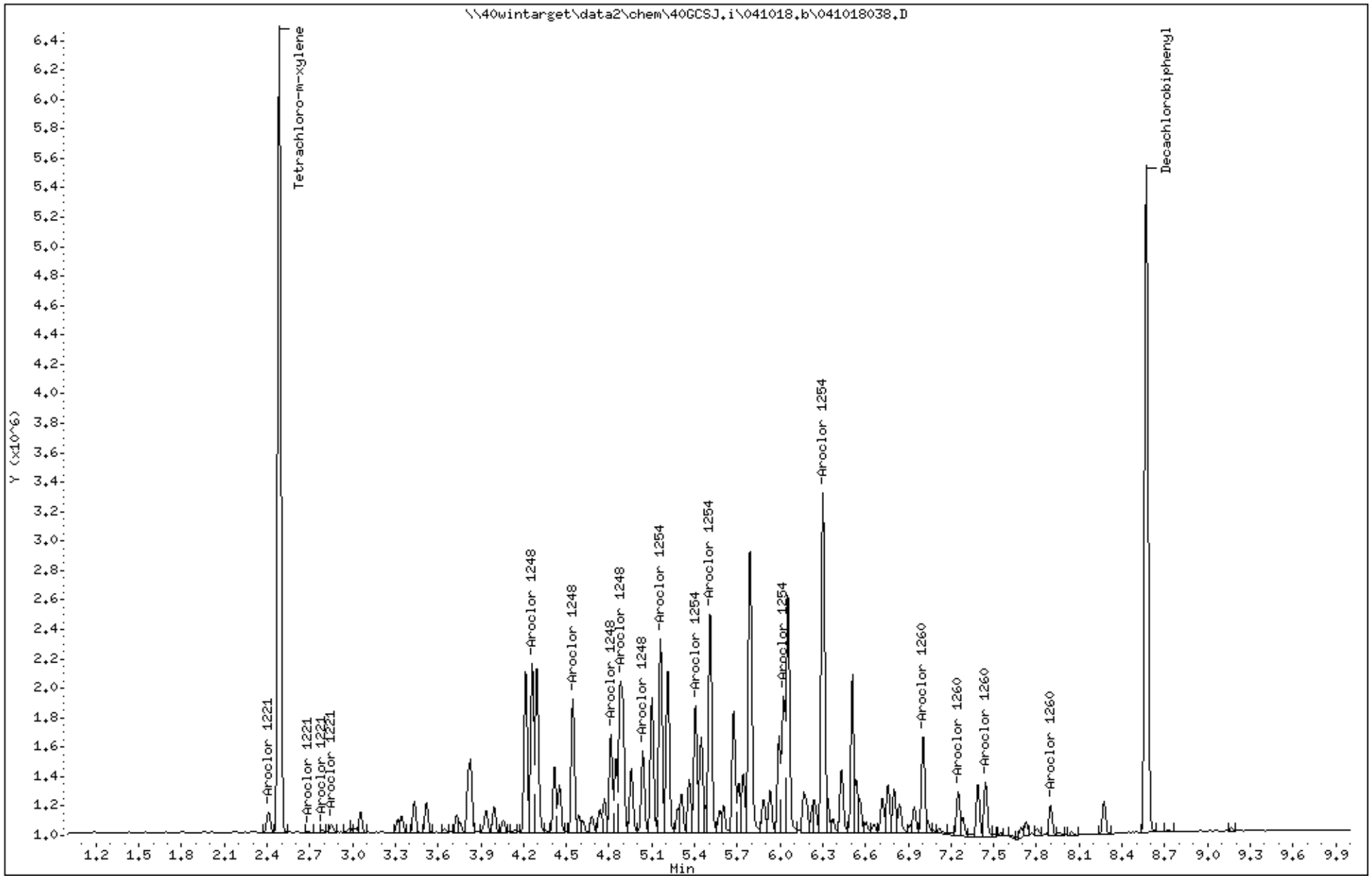
M - Compound response manually integrated.

Review Codes Legend

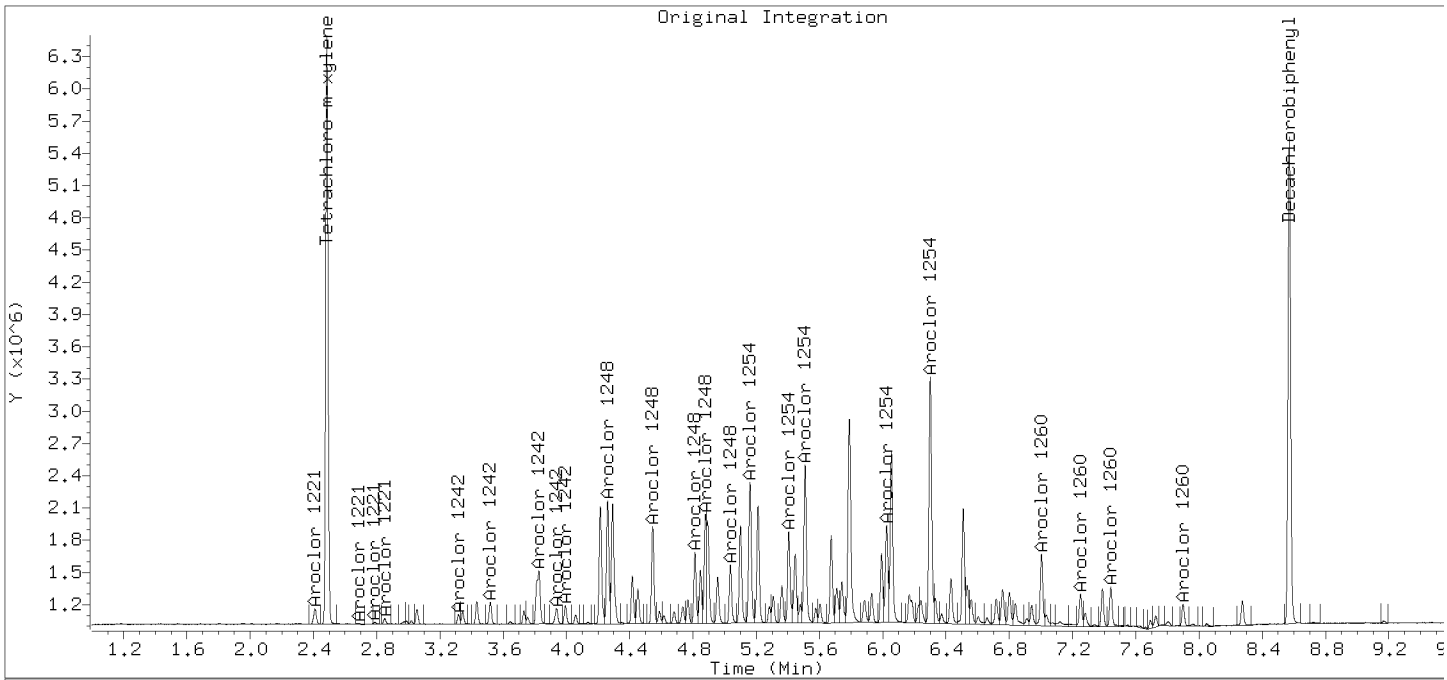
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

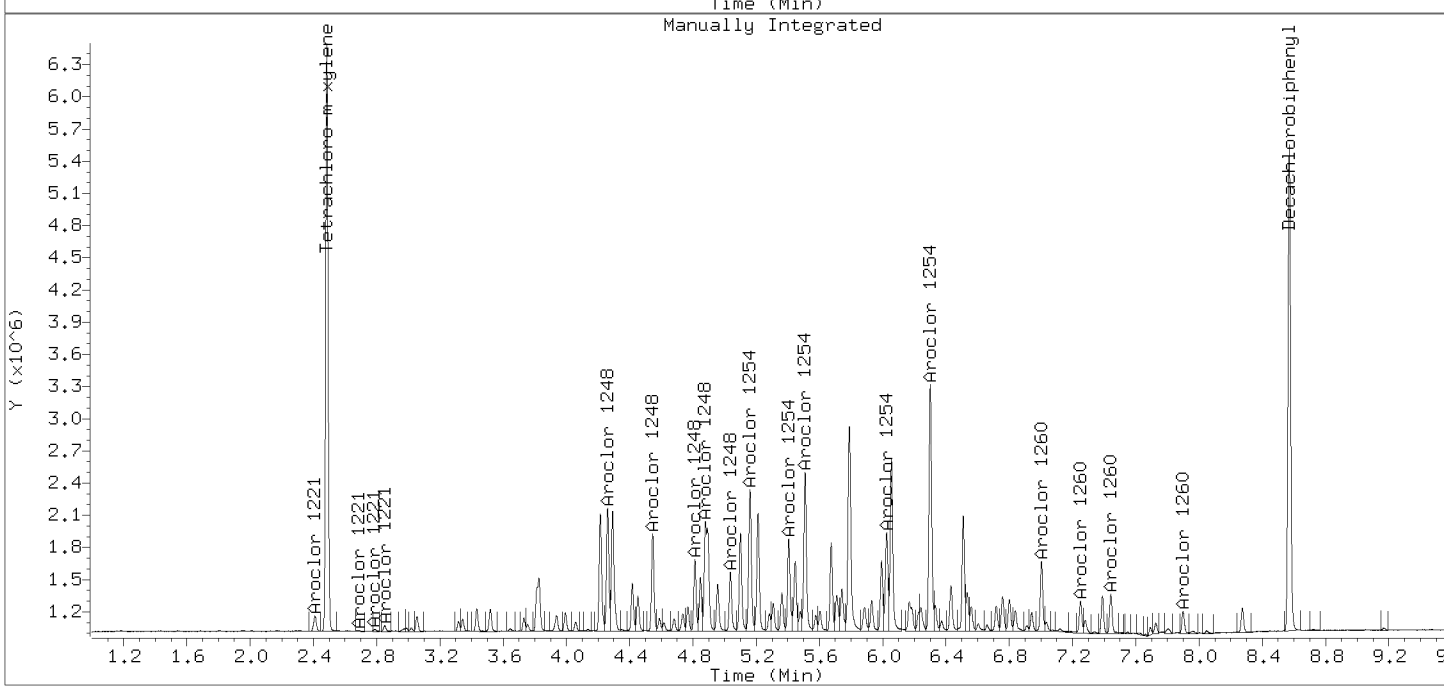
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018038.D
Date : 10-APR-2018 22:18
Client ID: SW3-170614-01-YP-10
Sample Info: 40157487001 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018038.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 22:18 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	95616	0	
Aroclor 1016	95616	0	
Aroclor 1016	95616	0	
Aroclor 1016	95616	0	
Aroclor 1016	95616	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	59260	0	
Aroclor 1232	59260	0	
Aroclor 1232	59260	0	
Aroclor 1232	59260	0	

Aroclor 1232	59260	0	
Aroclor 1242	95616	0	
Aroclor 1242	95616	0	
Aroclor 1242	95616	0	
Aroclor 1242	95616	0	
Aroclor 1242	95616	0	
Aroclor 1248	1208573	1217170	BA
Aroclor 1248	1208573	1217170	BA
Aroclor 1248	1208573	1217170	BA
Aroclor 1248	1208573	1217170	BA
Aroclor 1248	1208573	1217170	BA
Aroclor 1254	1541633	1572153	BA
Aroclor 1254	1541633	1572153	BA
Aroclor 1254	1541633	1572153	BA
Aroclor 1254	1541633	1572153	BA
Aroclor 1254	1541633	1572153	BA
Aroclor 1260	2766718	0	BA
Aroclor 1260	2766718	0	BA
Aroclor 1260	2766718	0	BA
Aroclor 1260	2766718	0	BA
Aroclor 1260	2766718	0	BA
Tetrachloro-m-xylene	5784832	5797411	BA
Decachlorobiphenyl	5277946	5277946	

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SAMPLE NO.

SW3-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 04/09/2018 07:13
Lab Sample ID: 40157487002
Date Analyzed: 04/10/2018 22:33
Lab File ID: 041018.B\041018039.D
Initial wt/vol: 9.9771 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	57.8	J
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)	395	
11097-69-1	PCB-1254 (Aroclor 1254)	220	
11096-82-5	PCB-1260 (Aroclor 1260)	66.9	J
1336-36-3	PCB, Total	739	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018039.D
Lab Smp Id: 40157487002 Client Smp ID: SW3-170614-01-YP-09
Inj Date : 10-APR-2018 22:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487002 x2,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.312	9688	8746	0.903	0.01		
2.411	85641	63813	0.745	0.17	1 Aroclor 1221	BA
2.484	5660693	5282914	0.933	12.13	$ 2 Tetrachloro-m-xylene	BA
2.685	15867	12171	0.767	0.03	1 Aroclor 1221	BA
2.789	39107	35405	0.905	0.08	1 Aroclor 1221	BA
2.850	89696	79541	0.887	0.18	1 Aroclor 1221	BA
2.988	57552	39543	0.687	0.11		
3.017	36304	36637	1.009	0.07		
3.053	100287	88668	0.884	0.20		
3.317	183572	173248	0.944	0.37		
3.342	190417	172143	0.904	0.39		
3.433	256826	231730	0.902	0.52		
3.518	257997	231672	0.898	0.53		
3.644	41044	35937	0.876	0.08		
3.731	275908	266943	0.968	0.56		
3.756	109273	105142	0.962	0.22		
3.814	524325	619860	1.182	1.07		
3.826	716866	670094	0.935	1.47		
3.936	222379	153470	0.690	0.45		
3.992	209464	188154	0.898	0.43		
4.057	119771	92615	0.773	0.24		
4.139	35980	23065	0.641	0.07		
4.215	1534269	1378078	0.898	3.15		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.260	1633595	1537154	0.941	3.35	6 Aroclor 1248
4.292	1802846	1488742	0.826	3.70	
4.347	29359	20734	0.706	0.06	
4.416	499483	450293	0.902	1.02	
4.452	467986	409988	0.876	0.96	
4.545	1157622	1022030	0.883	2.37	6 Aroclor 1248
4.587	144232	129611	0.899	0.29	
4.617	170227	138027	0.811	0.34	
4.681	126175	103351	0.819	0.25	
4.734	147504	112107	0.760	0.30	
4.768	265541	239220	0.901	0.54	
4.812	919179	846132	0.921	1.88	6 Aroclor 1248
4.847	462151	432480	0.936	0.94	
4.879	1968354	1115174	0.567	4.04	6 Aroclor 1248
4.956	442308	369102	0.834	0.90	
5.036	537969	460766	0.856	1.10	6 Aroclor 1248
5.100	823514	711721	0.864	1.69	
5.160	1243558	1038251	0.835	2.55	7 Aroclor 1254
5.211	1209972	1039803	0.859	2.48	
5.283	151178	135448	0.896	0.31	
5.307	230621	186123	0.807	0.47	
5.362	441971	382820	0.866	0.90	
5.405	732378	651715	0.890	1.50	7 Aroclor 1254
5.447	777680	650845	0.837	1.59	
5.478	117010	112353	0.960	0.24	
5.509	1544882	1328196	0.860	3.17	7 Aroclor 1254
5.577	117715	98713	0.839	0.24	
5.603	223662	175282	0.784	0.45	
5.674	486143	429869	0.884	0.99	
5.711	240070	199260	0.830	0.49	
5.741	392010	289598	0.739	0.80	
5.790	2153731	1597897	0.742	4.42	
5.883	229821	152565	0.664	0.47	
5.930	217969	163738	0.751	0.44	
5.992	473407	425634	0.899	0.97	
6.024	839736	712488	0.848	1.72	7 Aroclor 1254
6.055	1429863	1139563	0.797	2.93	
6.167	309290	173888	0.562	0.63	
6.242	355004	170147	0.479	0.72	
6.299	2056173	1625567	0.791	4.22	7 Aroclor 1254
6.332	205514	175240	0.853	0.42	
6.372	114909	80351	0.699	0.23	
6.430	280531	198974	0.709	0.57	
6.509	650307	554567	0.853	1.33	
6.535	434879	373153	0.858	0.89	
6.559	179020	152599	0.852	0.36	
6.604	75901	49304	0.650	0.15	
6.658	71836	37518	0.522	0.14	
6.716	173754	133741	0.770	0.35	
6.759	223232	182442	0.817	0.45	
6.800	278481	229700	0.825	0.57	
6.837	150411	97653	0.649	0.30	
6.910	42034	32723	0.778	0.08	
6.941	137505	115287	0.838	0.28	
7.003	561117	446111	0.795	1.15	8 Aroclor 1260
7.074	22326	15000	0.672	0.04	
7.122	30651	19631	0.640	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.250	283468	244698	0.863	0.58	8 Aroclor 1260
7.281	116125	84314	0.726	0.23	
7.339	37935	21889	0.577	0.07	
7.389	185129	175929	0.950	0.38	
7.441	274077	188847	0.689	0.56	8 Aroclor 1260
7.548	22639	18025	0.796	0.04	
7.584	14020	12911	0.921	0.02	
7.613	44304	24642	0.556	0.09	
7.659	20001	20939	1.047	0.04	
7.692	45683	45597	0.998	0.09	
7.725	78420	59665	0.761	0.16	
7.800	60138	30543	0.508	0.12	
7.899	151604	124529	0.821	0.31	8 Aroclor 1260
7.962	30076	16989	0.565	0.06	
8.046	21339	13113	0.615	0.04	
8.274	141723	127821	0.902	0.29	
8.568	5101430	4390095	0.861	10.48	$ 12 Decachlorobiphenyl
8.855	11866	6559	0.553	0.02	
9.168	20935	17610	0.841	0.04	
9.465	16037	9757	0.608	0.03	
9.954	12326	10016	0.813	0.02	
	48666499	40994466		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018039.D
Lab Smp Id: 40157487002 Client Smp ID: SW3-170614-01-YP-09
Inj Date : 10-APR-2018 22:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487002 x2,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 39
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.804	1.804	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
2.411	2.407	0.004	85641	0.15632	160	0.00- 20.00	0.00	BA
2.684	2.688	-0.004	15867	0.01147	11	0.00- 20.00	0.00	BA
2.788	2.789	-0.001	39106	0.03537	35	0.00- 20.00	0.00	BA
2.849	2.851	-0.002	89695	0.02755	28	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					58			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5660693	0.04591	46		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								BA

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.								BA
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1633594	0.69723	700	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1157621	0.27892	280	0.00- 20.00	70.86	BA
4.811	4.812	-0.001	919178	0.45278	450	0.00- 20.00	56.27	BA
4.878	4.879	-0.001	1968353	0.39074	390	0.00- 20.00	120.49	BA
5.036	5.038	-0.002	537969	0.14991	150	0.00- 20.00	32.93	BA
Average of Peak Concentrations =					390			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1243558	0.23754	240	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	732378	0.17028	170	0.00- 20.00	58.89	BA
5.508	5.510	-0.002	1544881	0.19893	200	0.00- 20.00	124.23	BA
6.024	6.027	-0.003	839735	0.17244	170	0.00- 20.00	67.53	BA
6.299	6.299	0.000	2056173	0.31599	320	0.00- 20.00	165.35	BA
Average of Peak Concentrations =					220			
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	561117	0.05603	56	0.00- 20.00	27.29	BA
7.249	7.251	-0.002	283468	0.05931	59	0.00- 20.00	13.79	BA
7.441	7.443	-0.002	274076	0.09402	94	0.00- 20.00	13.33	BA
7.898	7.901	-0.003	151604	0.05745	58	0.00- 20.00	7.37	BA
Average of Peak Concentrations =					67			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5101429	0.04656	47			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018039.D

Date : 10-APR-2018 22:33

Client ID: SW3-170614-01-YP-09

Instrument: 40GCSJ.i

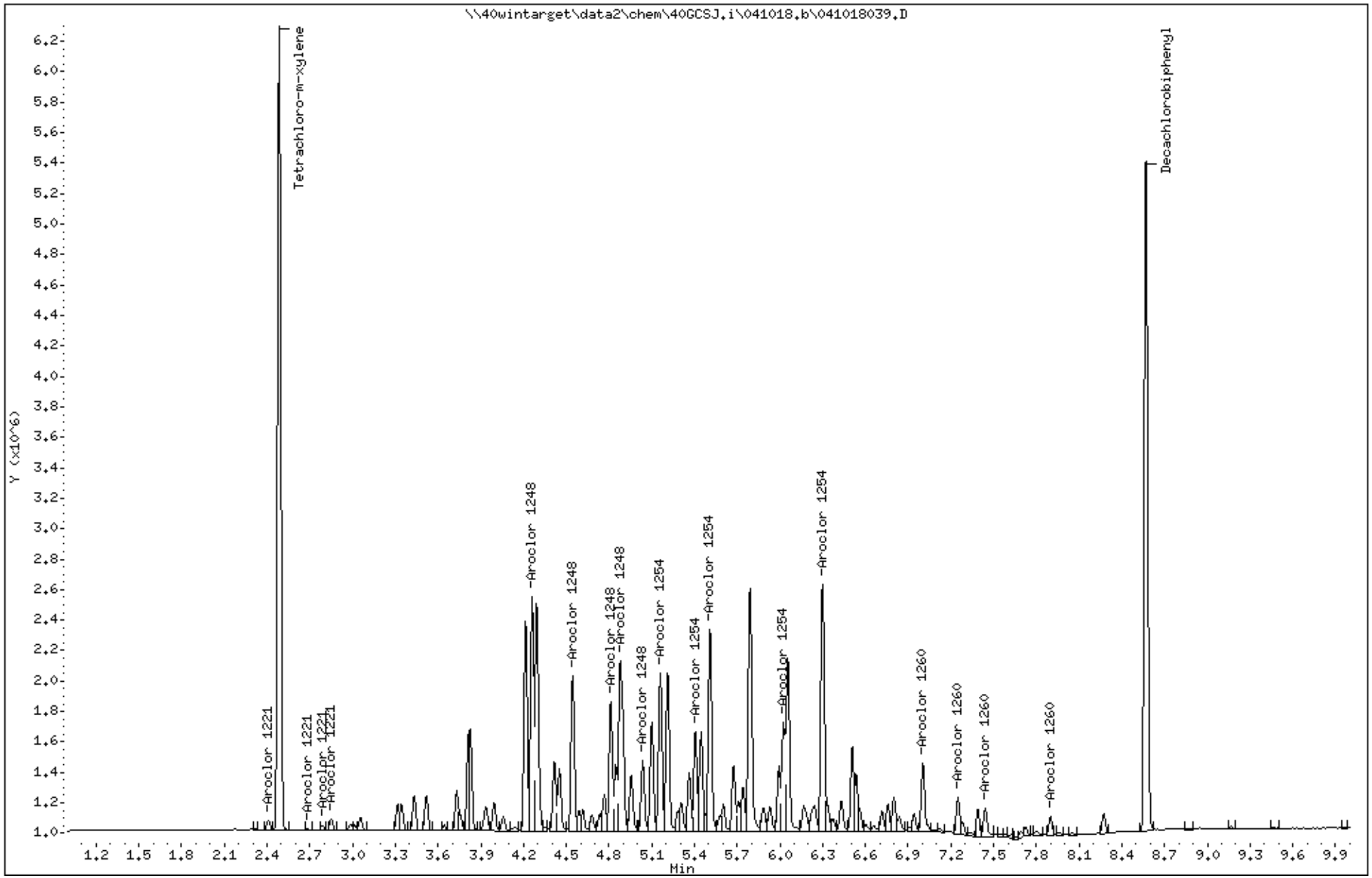
Sample Info: 40157487002 x2,

Volume Injected (uL): 1.0

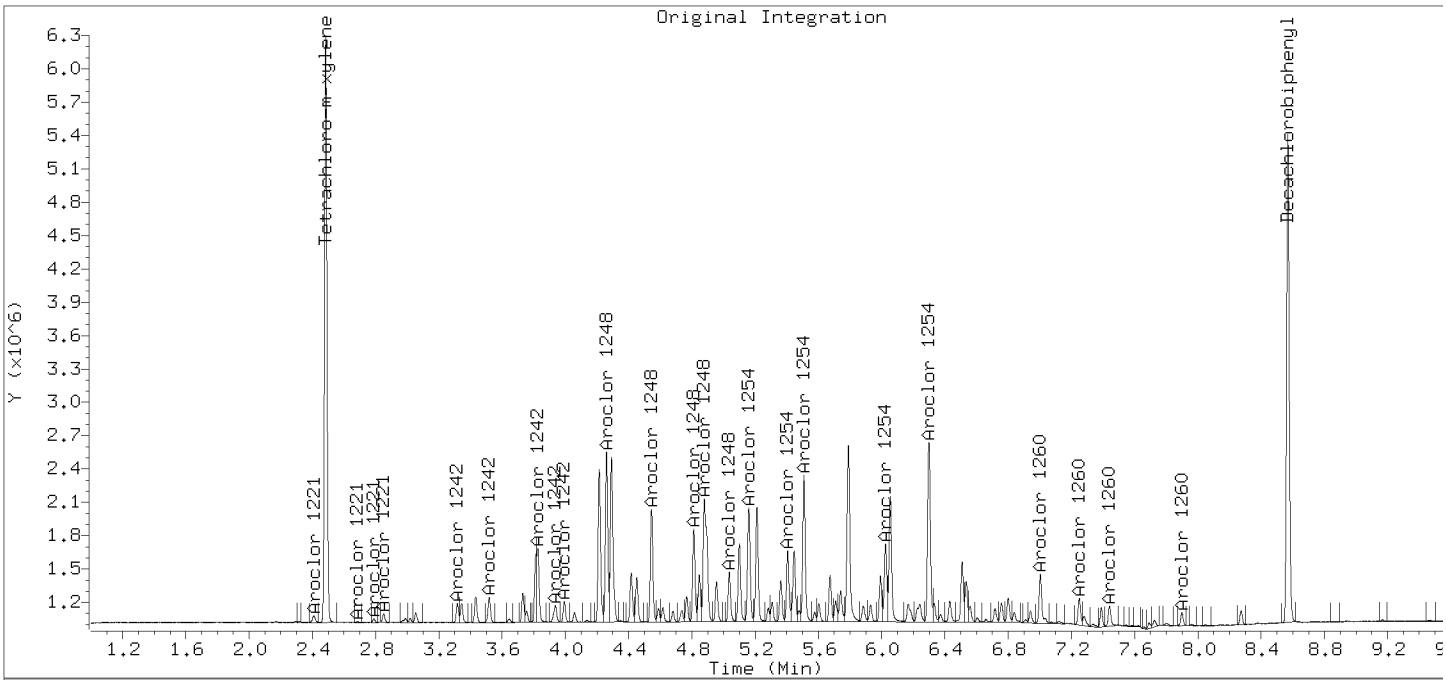
Operator: BLM

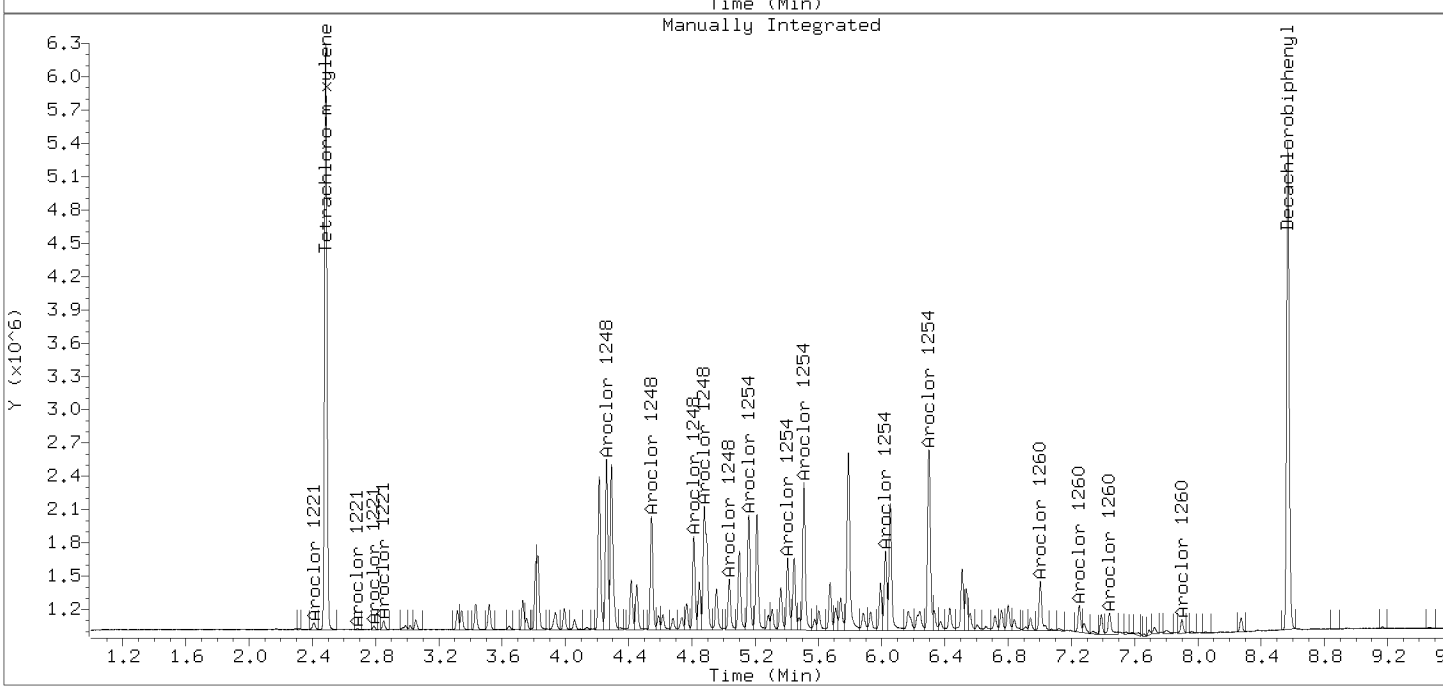
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018039.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 22:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	181627	0	BA
Aroclor 1016	181627	0	BA
Aroclor 1016	181627	0	BA
Aroclor 1016	181627	0	BA
Aroclor 1016	181627	0	BA
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	84277	0	BA
Aroclor 1232	84277	0	BA
Aroclor 1232	84277	0	BA
Aroclor 1232	84277	0	BA

Aroclor 1232	84277	0	BA
Aroclor 1242	181627	0	BA
Aroclor 1242	181627	0	BA
Aroclor 1242	181627	0	BA
Aroclor 1242	181627	0	BA
Aroclor 1242	181627	0	BA
Aroclor 1248	1615706	1633594	BA
Aroclor 1248	1615706	1633594	BA
Aroclor 1248	1615706	1633594	BA
Aroclor 1248	1615706	1633594	BA
Aroclor 1248	1615706	1633594	BA
Aroclor 1254	1205056	1243558	BA
Aroclor 1254	1205056	1243558	BA
Aroclor 1254	1205056	1243558	BA
Aroclor 1254	1205056	1243558	BA
Aroclor 1254	1205056	1243558	BA
Aroclor 1260	2013287	0	BA
Aroclor 1260	2013287	0	BA
Aroclor 1260	2013287	0	BA
Aroclor 1260	2013287	0	BA
Aroclor 1260	2013287	0	BA
Tetrachloro-m-xylene	5648675	5660693	BA
Decachlorobiphenyl	5101429	5101429	

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SAMPLE NO.

SW3-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 04/09/2018 07:13
Lab Sample ID: 40157487003
Date Analyzed: 04/10/2018 23:21
Lab File ID: 041018.B\041018042.D
Initial wt/vol: 9.9838 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	267	
11097-69-1	PCB-1254 (Aroclor 1254)	181	
11096-82-5	PCB-1260 (Aroclor 1260)	52.0	J
1336-36-3	PCB, Total	500	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018042.D
Lab Smp Id: 40157487003 Client Smp ID: SW3-170614-01-YP-08
Inj Date : 10-APR-2018 23:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487003 x2,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 42
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.984	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.074	11235	7134	0.635	0.02		
1.686	39578	30016	0.758	0.09		
1.799	32674	29351	0.898	0.08		
1.828	27619	21930	0.794	0.06		
1.893	13528	11098	0.820	0.03		
2.033	12359	10133	0.820	0.03		
2.121	13996	10110	0.722	0.03		
2.173	21679	17578	0.811	0.05		
2.293	14325	16296	1.138	0.03		
2.316	26020	21470	0.825	0.06		
2.408	73050	57266	0.784	0.17		
2.484	5923255	5543049	0.936	15.07	$ 2 Tetrachloro-m-xylene	
2.616	13426	9220	0.687	0.03		
2.787	23809	21504	0.903	0.05		
2.850	36061	30509	0.846	0.08		
2.990	52712	38752	0.735	0.12		
3.018	53152	50239	0.945	0.13		
3.053	60304	52218	0.866	0.14		
3.318	62180	59354	0.955	0.15		
3.344	57999	54027	0.932	0.14		
3.432	101485	97082	0.957	0.24		
3.518	149494	135064	0.903	0.36		
3.645	24799	21179	0.854	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.731	180087	170037	0.944	0.44	
3.755	68254	65493	0.960	0.16	
3.814	374956	393316	1.049	0.92	
3.825	380804	394484	1.036	0.93	
3.937	93607	64234	0.686	0.23	
3.992	117958	103701	0.879	0.28	
4.058	61323	48590	0.792	0.15	
4.214	1082951	977216	0.902	2.66	
4.260	1176239	1118559	0.951	2.89	6 Aroclor 1248
4.291	1397279	1196584	0.856	3.43	
4.417	271647	247538	0.911	0.66	
4.450	276350	235391	0.852	0.67	
4.545	680191	609055	0.895	1.67	6 Aroclor 1248
4.587	126657	116152	0.917	0.31	
4.616	101338	80447	0.794	0.24	
4.681	121978	99543	0.816	0.29	
4.736	143725	121920	0.848	0.35	
4.768	173587	156459	0.901	0.42	
4.812	624844	588456	0.942	1.53	6 Aroclor 1248
4.846	296924	284118	0.957	0.72	
4.878	1391570	747296	0.537	3.42	6 Aroclor 1248
4.956	390983	317130	0.811	0.96	
5.036	290835	247926	0.852	0.71	6 Aroclor 1248
5.099	690092	596523	0.864	1.69	
5.160	1035963	875518	0.845	2.54	7 Aroclor 1254
5.211	1068357	921058	0.862	2.62	
5.282	135332	126979	0.938	0.33	
5.306	176092	140035	0.795	0.43	
5.362	276179	235022	0.851	0.67	
5.405	543960	498280	0.916	1.33	7 Aroclor 1254
5.447	667214	548416	0.822	1.64	
5.476	103853	99432	0.957	0.25	
5.508	1212059	1026868	0.847	2.97	7 Aroclor 1254
5.576	119123	105390	0.885	0.29	
5.602	130218	99506	0.764	0.32	
5.674	504418	458802	0.910	1.23	
5.709	208529	175650	0.842	0.51	
5.741	353976	270798	0.765	0.87	
5.789	1826252	1394415	0.764	4.48	
5.884	185887	129838	0.698	0.45	
5.930	208876	161420	0.773	0.51	
5.992	438913	386527	0.881	1.07	
6.024	634538	549579	0.866	1.55	7 Aroclor 1254
6.054	1307698	1092500	0.835	3.21	
6.167	238040	135789	0.570	0.58	
6.227	104248	114491	1.098	0.25	
6.243	193194	140531	0.727	0.47	
6.299	1908270	1506847	0.790	4.69	7 Aroclor 1254
6.332	174264	152811	0.877	0.42	
6.371	90769	55072	0.607	0.22	
6.431	256614	194449	0.758	0.63	
6.508	596440	546873	0.917	1.46	
6.534	372909	328316	0.880	0.91	
6.559	168668	140701	0.834	0.41	
6.605	57543	40091	0.697	0.14	
6.661	47693	29192	0.612	0.11	
6.717	130000	96979	0.746	0.31	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.757	193912	160681	0.829	0.47	
6.800	238635	209667	0.879	0.58	
6.838	135386	86902	0.642	0.33	
6.914	33103	27165	0.821	0.08	
6.941	101730	86625	0.852	0.25	
7.003	440862	400885	0.909	1.08	8 Aroclor 1260
7.034	37889	44991	1.187	0.09	
7.074	15297	10947	0.716	0.03	
7.122	31892	17291	0.542	0.07	
7.250	248323	216698	0.873	0.61	8 Aroclor 1260
7.279	101641	75135	0.739	0.24	
7.331	21725	15706	0.723	0.05	
7.389	158971	146749	0.923	0.39	
7.441	184674	154469	0.836	0.45	8 Aroclor 1260
7.579	10417	10510	1.009	0.02	
7.616	27623	14223	0.515	0.06	
7.662	21803	18729	0.859	0.05	
7.692	45251	41886	0.926	0.11	
7.726	61658	46852	0.760	0.15	
7.798	35609	24404	0.685	0.08	
7.899	127363	103744	0.815	0.31	8 Aroclor 1260
7.957	18797	15702	0.835	0.04	
8.274	123632	106555	0.862	0.30	
8.569	5418212	4665936	0.861	13.31	$ 12 Decachlorobiphenyl
9.162	13818	10848	0.785	0.03	
	40683232	34816222		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018042.D
Lab Smp Id: 40157487003 Client Smp ID: SW3-170614-01-YP-08
Inj Date : 10-APR-2018 23:21
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487003 x2,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 42
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.984	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	5923254	0.04804	48			
3 Aroclor 1242						CAS #: 53469-21-9		
Operator disabled compound identification.								
4 Aroclor 1232						CAS #: 1114-16-5		
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1176238	0.50203	500	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	680191	0.16389	160	0.00- 20.00	57.83	BA
4.812	4.812	0.000	624844	0.30779	310	0.00- 20.00	53.12	BA
4.877	4.879	-0.002	1391570	0.27625	280	0.00- 20.00	118.31	BA
5.036	5.038	-0.002	290835	0.08105	81	0.00- 20.00	24.73	BA
Average of Peak Concentrations =					270			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1035963	0.19788	200	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	543960	0.12647	130	0.00- 20.00	52.51	BA
5.508	5.510	-0.002	1212058	0.15607	160	0.00- 20.00	117.00	BA
6.023	6.027	-0.004	634537	0.13030	130	0.00- 20.00	61.25	BA
6.299	6.299	0.000	1908270	0.29326	290	0.00- 20.00	184.20	BA
Average of Peak Concentrations =					180			
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	440861	0.04402	44	0.00- 20.00	25.05	CO
7.249	7.251	-0.002	248323	0.05195	52	0.00- 20.00	13.01	CO
7.441	7.443	-0.002	184674	0.06335	63	0.00- 20.00	9.68	CO
7.899	7.901	-0.002	127363	0.04827	48	0.00- 20.00	6.67	CO
Average of Peak Concentrations =					52			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5418211	0.04945	50			

QC Flag Legend

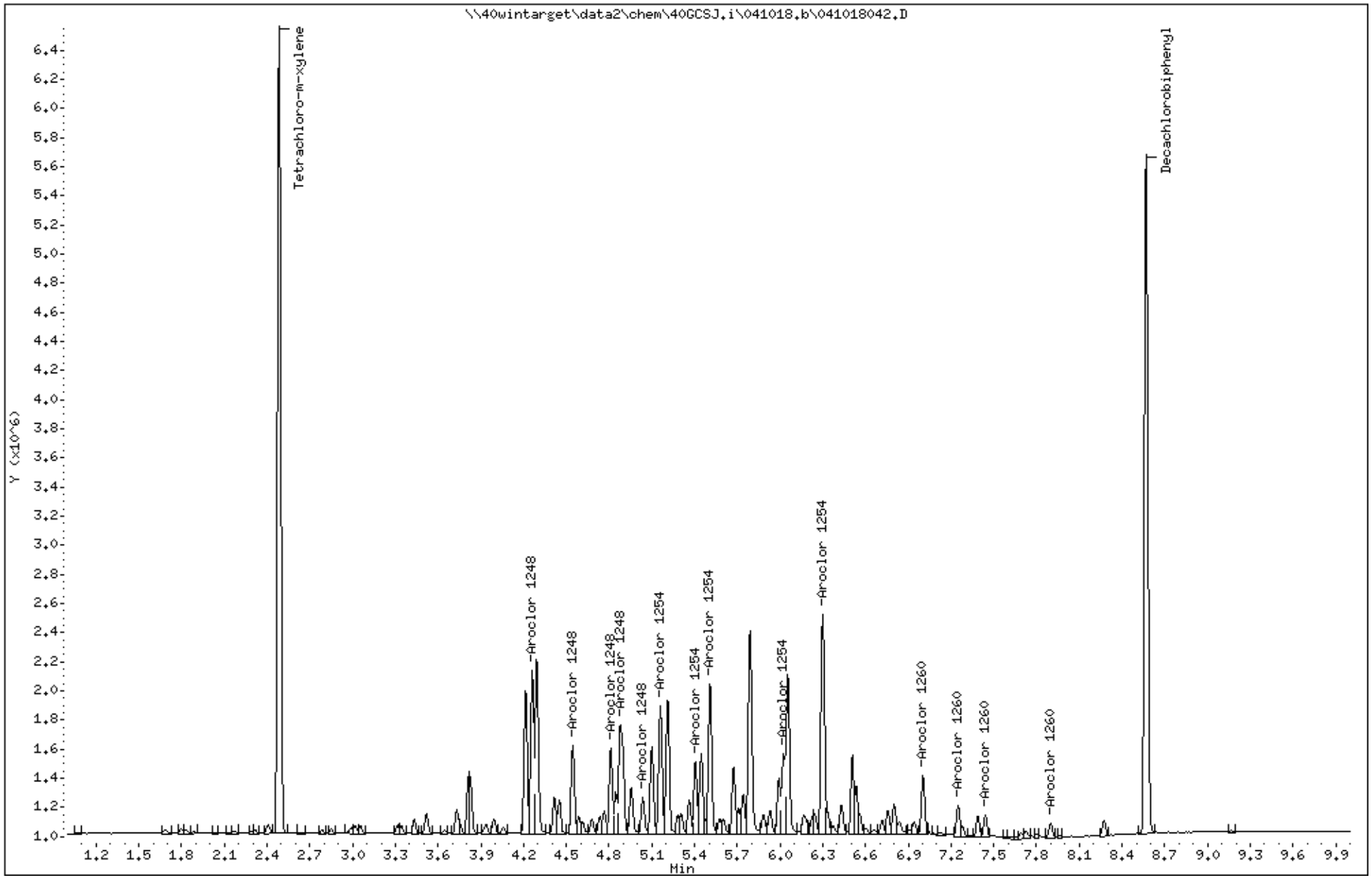
M - Compound response manually integrated.

Review Codes Legend

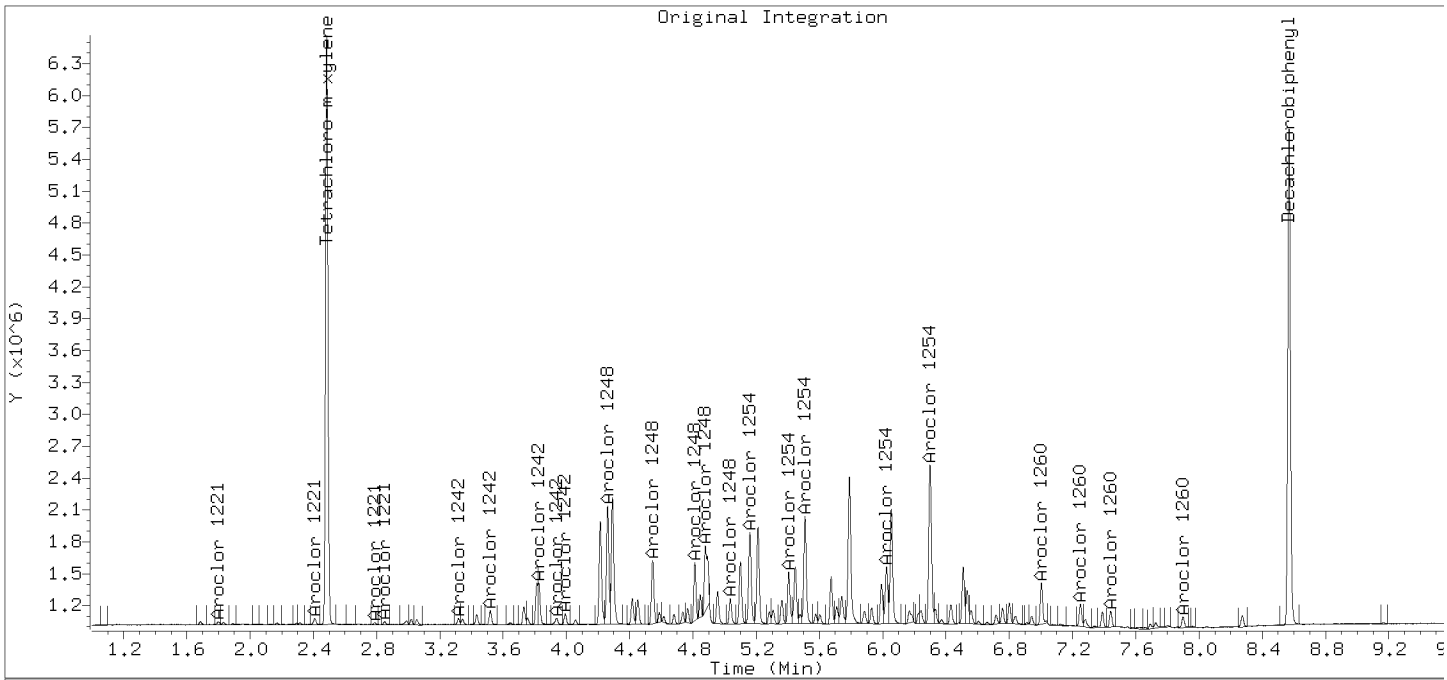
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

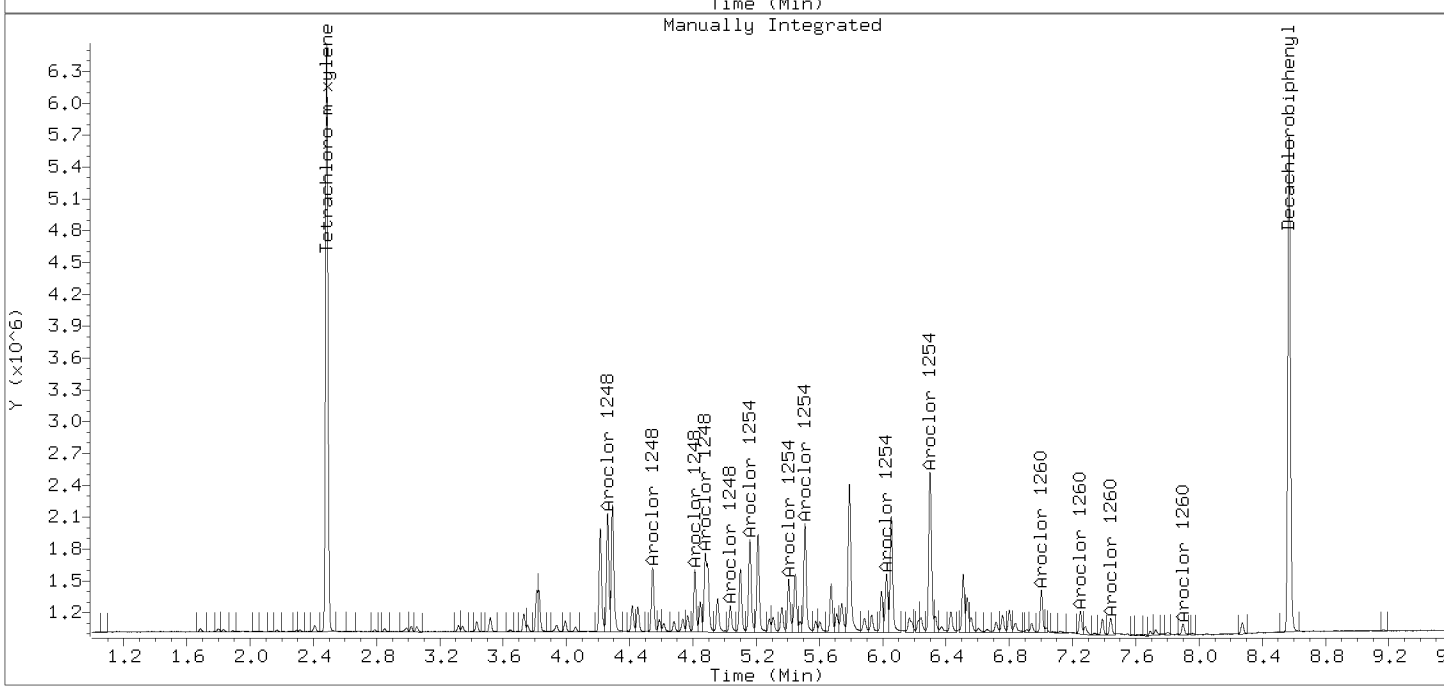
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018042.D
Date : 10-APR-2018 23:21
Client ID: SW3-170614-01-YP-08
Sample Info: 40157487003 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018042.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 23:21 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	62179	0	
Aroclor 1016	62179	0	
Aroclor 1016	62179	0	
Aroclor 1016	62179	0	
Aroclor 1016	62179	0	
Aroclor 1221	32674	0	
Aroclor 1221	32674	0	
Aroclor 1221	32674	0	
Aroclor 1221	32674	0	
Aroclor 1221	32674	0	
Aroclor 1232	36061	0	
Aroclor 1232	36061	0	
Aroclor 1232	36061	0	
Aroclor 1232	36061	0	

Aroclor 1232	36061	0	
Aroclor 1242	62179	0	
Aroclor 1242	62179	0	
Aroclor 1242	62179	0	
Aroclor 1242	62179	0	
Aroclor 1242	62179	0	
Aroclor 1248	1160717	1176238	BA
Aroclor 1248	1160717	1176238	BA
Aroclor 1248	1160717	1176238	BA
Aroclor 1248	1160717	1176238	BA
Aroclor 1248	1160717	1176238	BA
Aroclor 1254	988826	1035963	BA
Aroclor 1254	988826	1035963	BA
Aroclor 1254	988826	1035963	BA
Aroclor 1254	988826	1035963	BA
Aroclor 1254	988826	1035963	BA
Aroclor 1260	1857573	0	CO
Aroclor 1260	1857573	0	CO
Aroclor 1260	1857573	0	CO
Aroclor 1260	1857573	0	CO
Aroclor 1260	1857573	0	CO
Tetrachloro-m-xylene	5923254	5923254	
Decachlorobiphenyl	5418211	5418211	

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SAMPLE NO.

SW3-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 04/09/2018 07:13
Lab Sample ID: 40157487004
Date Analyzed: 04/10/2018 23:37
Lab File ID: 041018.B\041018043.D
Initial wt/vol: 10.0118 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)	30.3	J
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	113	
11097-69-1	PCB-1254 (Aroclor 1254)	72.6	
11096-82-5	PCB-1260 (Aroclor 1260)	19.7	J
1336-36-3	PCB, Total	236	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018043.D
Lab Smp Id: 40157487004 Client Smp ID: SW3-170614-01-YP-07
Inj Date : 10-APR-2018 23:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487004,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 43
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	10.012	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.431	12130	9667	0.797	0.02			
1.801	15793	10608	0.672	0.03		1 Aroclor 1221	BA
2.132	25485	16217	0.636	0.05			
2.170	26274	25347	0.965	0.05			
2.199	42282	21081	0.499	0.09			
2.255	12608	11886	0.943	0.02			
2.292	36032	32664	0.907	0.07			
2.318	40025	35736	0.893	0.08			
2.410	116612	90383	0.775	0.25		1 Aroclor 1221	BA
2.484	10617495	10045555	0.946	24.12	$	2 Tetrachloro-m-xylene	BA
2.682	13862	11644	0.840	0.03		1 Aroclor 1221	BA
2.787	45841	35915	0.783	0.10		1 Aroclor 1221	BA
2.851	76645	60835	0.794	0.17		1 Aroclor 1221	BA
2.990	52062	34269	0.658	0.11			
3.019	40115	36935	0.921	0.08			
3.054	96435	83502	0.866	0.21			
3.316	99006	94239	0.952	0.21			
3.343	101798	95368	0.937	0.22			
3.431	160070	148000	0.925	0.35			
3.520	157620	143432	0.910	0.34			
3.643	25889	20648	0.798	0.05			
3.730	171074	170573	0.997	0.37			
3.754	66645	63790	0.957	0.14			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.815	667200	385964	0.578	1.48	
3.937	117681	88025	0.748	0.26	
3.993	121346	109486	0.902	0.26	
4.057	63844	53020	0.830	0.14	
4.135	20946	12749	0.609	0.04	
4.214	909503	830816	0.913	2.01	
4.260	954833	895580	0.938	2.11	6 Aroclor 1248
4.291	1129659	953647	0.844	2.50	
4.416	243656	222525	0.913	0.54	
4.451	250846	211293	0.842	0.55	
4.544	599569	538006	0.897	1.33	6 Aroclor 1248
4.588	108323	93739	0.865	0.24	
4.616	97988	71095	0.726	0.21	
4.680	97755	73955	0.757	0.21	
4.735	116741	92694	0.794	0.25	
4.766	153661	140554	0.915	0.34	
4.811	544091	509762	0.937	1.20	6 Aroclor 1248
4.847	270336	257665	0.953	0.59	
4.878	1167799	653142	0.559	2.59	6 Aroclor 1248
4.955	288599	242980	0.842	0.64	
5.037	296882	247423	0.833	0.65	6 Aroclor 1248
5.100	548159	463433	0.845	1.21	
5.161	852751	723915	0.849	1.89	7 Aroclor 1254
5.211	841180	733011	0.871	1.86	
5.283	112152	101364	0.904	0.24	
5.308	137303	115702	0.843	0.30	
5.362	263594	211943	0.804	0.58	
5.406	466270	410396	0.880	1.03	7 Aroclor 1254
5.447	513427	424268	0.826	1.13	
5.477	85121	81756	0.960	0.18	
5.509	973468	840722	0.864	2.16	7 Aroclor 1254
5.576	92744	80164	0.864	0.20	
5.603	124805	89708	0.719	0.27	
5.674	383517	338156	0.882	0.85	
5.708	166945	134281	0.804	0.37	
5.741	282650	211105	0.747	0.62	
5.789	1488009	1112289	0.748	3.30	
5.885	160585	107202	0.668	0.35	
5.930	165793	121339	0.732	0.36	
5.992	329489	291234	0.884	0.73	
6.024	528945	463895	0.877	1.17	7 Aroclor 1254
6.054	1019456	830952	0.815	2.26	
6.141	14036	18385	1.310	0.03	
6.167	223678	114616	0.512	0.49	
6.241	246012	118205	0.480	0.54	
6.298	1441905	1162423	0.806	3.19	7 Aroclor 1254
6.332	142819	120497	0.844	0.31	
6.373	84243	50110	0.595	0.18	
6.431	206637	150588	0.729	0.45	
6.483	21175	24614	1.162	0.04	
6.508	429111	384394	0.896	0.95	
6.534	296864	252719	0.851	0.65	
6.559	128715	107474	0.835	0.28	
6.606	56287	33072	0.588	0.12	
6.660	49966	29057	0.582	0.11	
6.717	113601	83322	0.733	0.25	
6.757	155008	122821	0.792	0.34	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.800	190018	156217	0.822	0.42	
6.837	122199	71549	0.586	0.27	
6.910	35301	25855	0.732	0.07	
6.939	91927	72654	0.790	0.20	
7.003	332435	287032	0.863	0.73	8 Aroclor 1260
7.033	43094	36233	0.841	0.09	
7.073	14235	9202	0.646	0.03	
7.123	31105	15069	0.484	0.06	
7.250	182005	156953	0.862	0.40	8 Aroclor 1260
7.278	82719	58083	0.702	0.18	
7.338	28781	16480	0.573	0.06	
7.389	107361	105731	0.985	0.23	
7.441	152382	116720	0.766	0.33	8 Aroclor 1260
7.541	20628	12151	0.589	0.04	
7.582	18041	17306	0.959	0.04	
7.620	26349	13846	0.525	0.05	
7.660	16616	15007	0.903	0.03	
7.695	32150	30031	0.934	0.07	
7.726	71168	52370	0.736	0.15	
7.800	39178	25119	0.641	0.08	
7.899	90411	75427	0.834	0.20	8 Aroclor 1260
7.957	17467	9983	0.572	0.03	
8.272	133010	114834	0.863	0.29	
8.375	17154	12998	0.758	0.03	
8.569	9734469	8472936	0.870	21.60	$ 12 Decachlorobiphenyl
9.169	14063	13346	0.949	0.03	
	45063745	38634678		100.000	

Total unknown % area = 35

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018043.D
Lab Smp Id: 40157487004 Client Smp ID: SW3-170614-01-YP-07
Inj Date : 10-APR-2018 23:37
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487004,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 43
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	10.012	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			
1.801	1.804	-0.003	15793	0.01517	7.6	0.00- 20.00	100.00(M)	BA
2.409	2.407	0.002	116612	0.21286	110	0.00- 20.00	738.38	BA
2.681	2.688	-0.007	13861	0.01002	5.0	0.00- 20.00	87.77	BA
2.785	2.789	-0.004	45841	0.04146	21	0.00- 20.00	290.26	BA
2.850	2.851	-0.001	76645	0.02354	12	0.00- 20.00	485.31	BA
Average of Peak Concentrations =					30			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	10617495	0.08611	43		(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	954833	0.40753	200	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	599568	0.14446	72	0.00- 20.00	62.79	BA
4.811	4.812	-0.001	544090	0.26801	130	0.00- 20.00	56.98	BA
4.878	4.879	-0.001	1167799	0.23182	120	0.00- 20.00	122.30	BA
5.036	5.038	-0.002	296881	0.08273	41	0.00- 20.00	31.09	BA
Average of Peak Concentrations =					110			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	852750	0.16289	81	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	466269	0.10841	54	0.00- 20.00	54.68	BA
5.509	5.510	-0.001	973468	0.12535	63	0.00- 20.00	114.16	BA
6.024	6.027	-0.003	528944	0.10862	54	0.00- 20.00	62.03	BA
6.298	6.299	-0.001	1441905	0.22159	110	0.00- 20.00	169.09	BA
Average of Peak Concentrations =					72			
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	332434	0.03320	16	0.00- 20.00	26.00	CO
7.249	7.251	-0.002	182004	0.03808	19	0.00- 20.00	12.62	CO
7.441	7.443	-0.002	152381	0.05227	26	0.00- 20.00	10.57	CO
7.899	7.901	-0.002	90410	0.03426	17	0.00- 20.00	6.27	CO
Average of Peak Concentrations =					20			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	9734469	0.08885	44			

QC Flag Legend

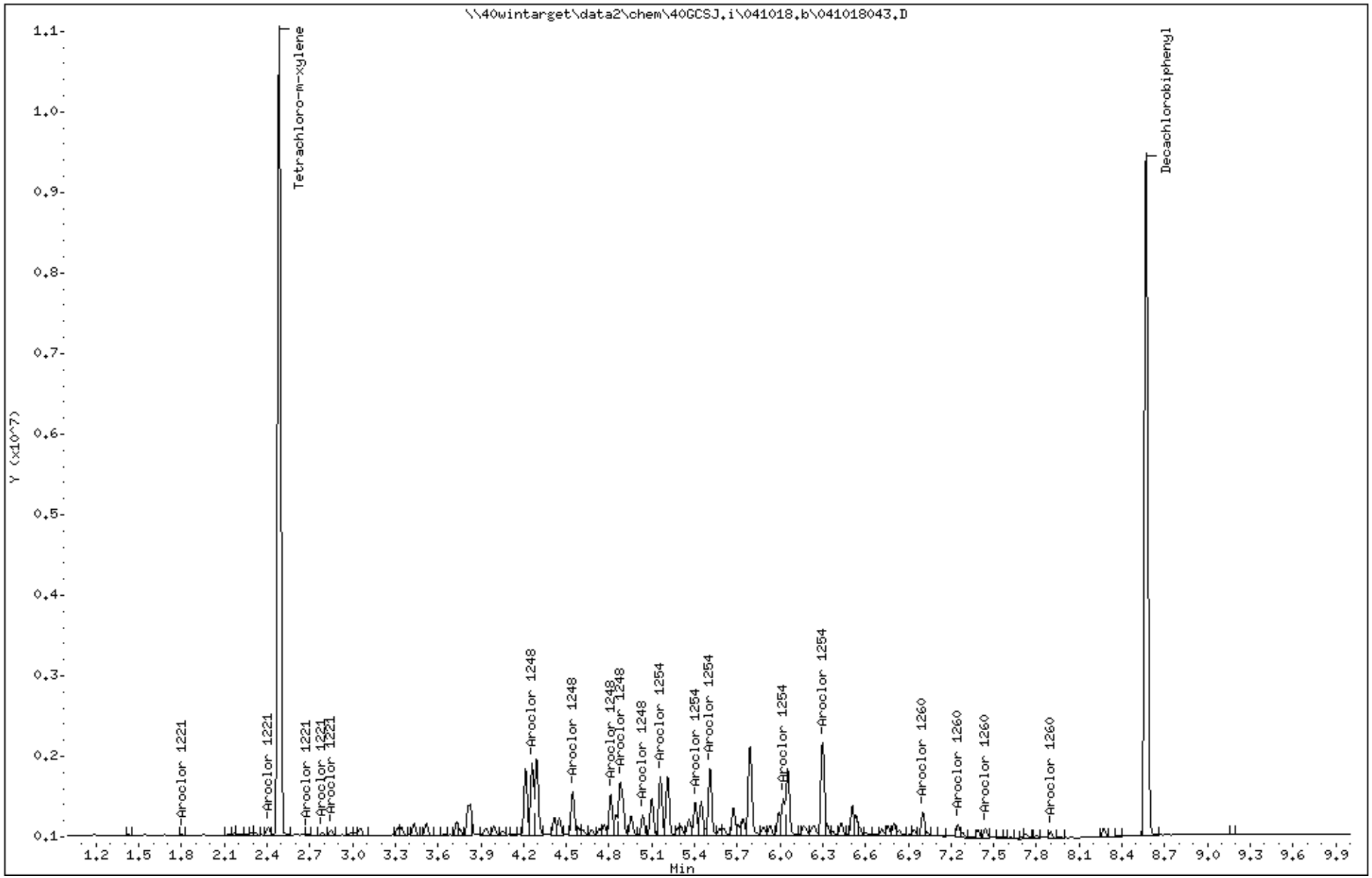
M - Compound response manually integrated.

Review Codes Legend

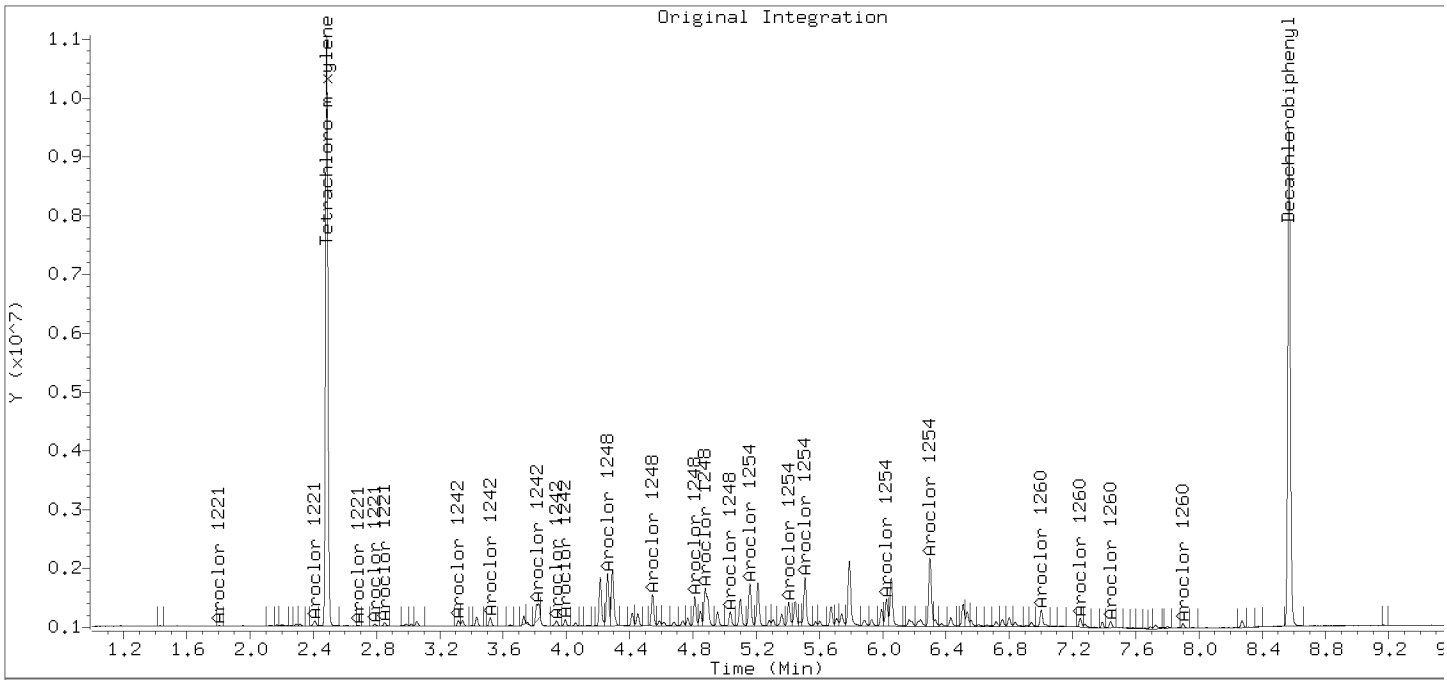
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

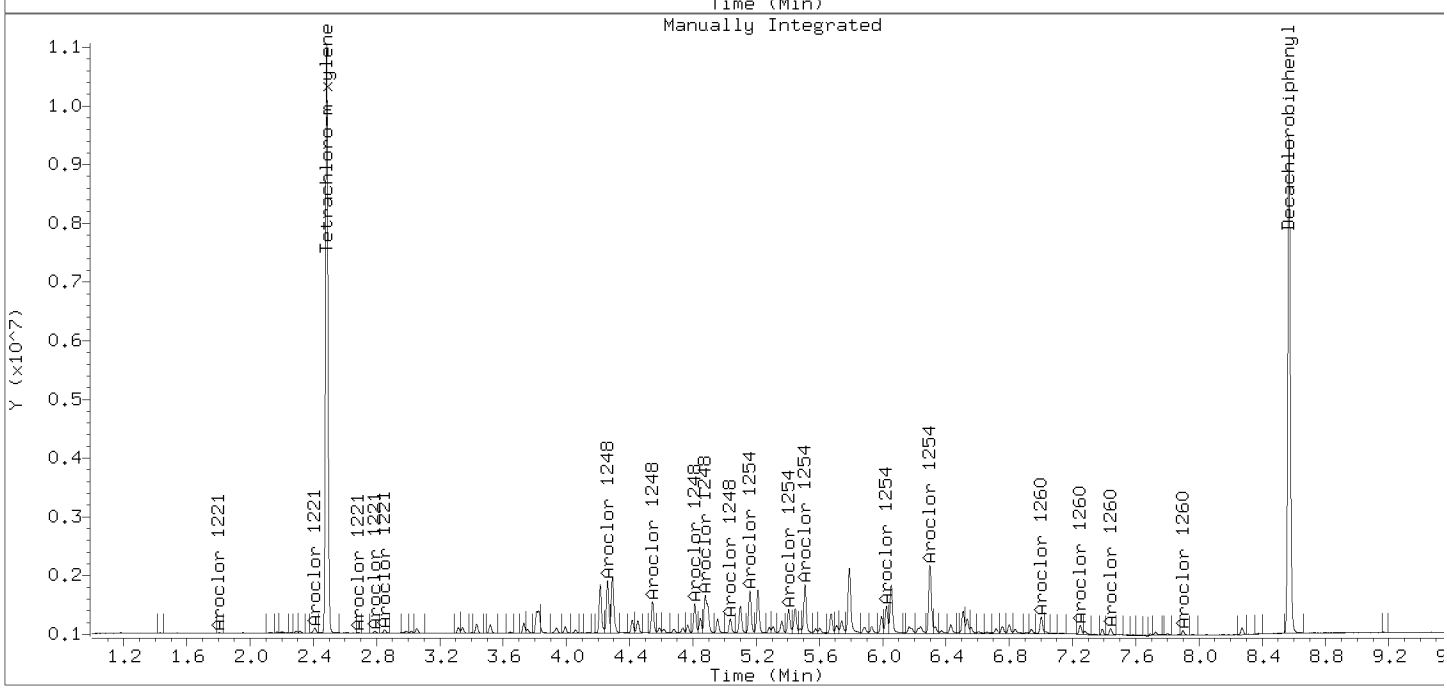
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018043.D
Date : 10-APR-2018 23:37
Client ID: SW3-170614-01-YP-07
Sample Info: 40157487004,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018043.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 23:37 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	99006	0	
Aroclor 1016	99006	0	
Aroclor 1016	99006	0	
Aroclor 1016	99006	0	
Aroclor 1016	99006	0	
Aroclor 1221	10963	15793	BA
Aroclor 1221	10963	15793	BA
Aroclor 1221	10963	15793	BA
Aroclor 1221	10963	15793	BA
Aroclor 1221	10963	15793	BA
Aroclor 1232	69831	0	
Aroclor 1232	69831	0	
Aroclor 1232	69831	0	
Aroclor 1232	69831	0	

Aroclor 1232	69831	0	
Aroclor 1242	99006	0	
Aroclor 1242	99006	0	
Aroclor 1242	99006	0	
Aroclor 1242	99006	0	
Aroclor 1242	99006	0	
Aroclor 1248	937746	954833	BA
Aroclor 1248	937746	954833	BA
Aroclor 1248	937746	954833	BA
Aroclor 1248	937746	954833	BA
Aroclor 1248	937746	954833	BA
Aroclor 1254	834184	852750	BA
Aroclor 1254	834184	852750	BA
Aroclor 1254	834184	852750	BA
Aroclor 1254	834184	852750	BA
Aroclor 1254	834184	852750	BA
Aroclor 1260	1437310	0	CO
Aroclor 1260	1437310	0	CO
Aroclor 1260	1437310	0	CO
Aroclor 1260	1437310	0	CO
Aroclor 1260	1437310	0	CO
Tetrachloro-m-xylene	10607254	10617495	BA
Decachlorobiphenyl	9734469	9734469	

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SAMPLE NO.

SW3-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 04/09/2018 07:13
Lab Sample ID: 40157487005
Date Analyzed: 04/10/2018 23:53
Lab File ID: 041018.B\041018044.D
Initial wt/vol: 10.0301 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.7	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	313	
11097-69-1	PCB-1254 (Aroclor 1254)	171	
11096-82-5	PCB-1260 (Aroclor 1260)	46.2	J
1336-36-3	PCB, Total	530	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018044.D
Lab Smp Id: 40157487005 Client Smp ID: SW3-170614-01-YP-06
Inj Date : 10-APR-2018 23:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487005 x2,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 44
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.030	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.170	13860	12166	0.878	0.03		
2.295	10115	11507	1.138	0.02		
2.317	12770	11335	0.888	0.03		
2.408	80244	60042	0.748	0.19		
2.484	5907556	5483808	0.928	14.87	$ 2 Tetrachloro-m-xylene	
2.790	38757	32393	0.836	0.09		
2.850	85080	72345	0.850	0.20		
2.990	49413	30922	0.626	0.12		
3.019	31302	28851	0.922	0.07		
3.054	71106	61960	0.871	0.17		
3.317	143492	131686	0.918	0.34		
3.343	160916	148841	0.925	0.39		
3.433	165126	154827	0.938	0.40		
3.518	192004	171130	0.891	0.46		
3.643	29539	22556	0.764	0.07		
3.731	227664	216614	0.951	0.55		
3.756	89408	85005	0.951	0.21		
3.814	534398	524822	0.982	1.30		
3.825	468731	525144	1.120	1.14		
3.936	143016	101340	0.709	0.34		
3.993	155823	138341	0.888	0.37		
4.057	73787	63121	0.855	0.17		
4.135	19533	16173	0.828	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.214	1252872	1144748	0.914	3.05	
4.261	1372086	1298774	0.947	3.34	6 Aroclor 1248
4.292	1581537	1325865	0.838	3.85	
4.416	326197	298607	0.915	0.79	
4.451	334193	296774	0.888	0.81	
4.545	878218	806652	0.919	2.14	6 Aroclor 1248
4.588	128652	120000	0.933	0.31	
4.615	107133	85836	0.801	0.26	
4.680	112966	96148	0.851	0.27	
4.737	136422	108495	0.795	0.33	
4.767	198313	184799	0.932	0.48	
4.812	725226	673319	0.928	1.76	6 Aroclor 1248
4.847	421265	392734	0.932	1.02	
4.879	1543323	918161	0.595	3.76	6 Aroclor 1248
4.955	341729	289482	0.847	0.83	
5.036	396689	342348	0.863	0.96	6 Aroclor 1248
5.100	679315	600370	0.884	1.65	
5.160	1045495	893522	0.855	2.54	7 Aroclor 1254
5.211	955607	841475	0.881	2.32	
5.283	131062	120181	0.917	0.31	
5.306	159212	131898	0.828	0.38	
5.362	322436	288340	0.894	0.78	
5.405	584288	518072	0.887	1.42	7 Aroclor 1254
5.446	611916	490906	0.802	1.49	
5.476	92260	92681	1.005	0.22	
5.508	1154451	998013	0.864	2.81	7 Aroclor 1254
5.576	92934	81353	0.875	0.22	
5.603	130498	112501	0.862	0.31	
5.673	427631	391076	0.915	1.04	
5.710	176692	142527	0.807	0.43	
5.742	308218	240530	0.780	0.75	
5.790	1664728	1237758	0.744	4.05	
5.884	179450	126644	0.706	0.43	
5.930	166804	132030	0.792	0.40	
5.992	369257	315489	0.854	0.89	
6.024	621324	540979	0.871	1.51	7 Aroclor 1254
6.054	1048236	895140	0.854	2.55	
6.167	236200	134297	0.569	0.57	
6.226	83756	101591	1.213	0.20	
6.241	175121	127311	0.727	0.42	
6.300	1585884	1278092	0.806	3.86	7 Aroclor 1254
6.333	153280	136481	0.890	0.37	
6.371	83348	54302	0.652	0.20	
6.431	222018	165726	0.746	0.54	
6.508	489567	423193	0.864	1.19	
6.534	309730	269697	0.871	0.75	
6.558	126616	106601	0.842	0.30	
6.604	57617	41074	0.713	0.14	
6.660	47881	27819	0.581	0.11	
6.718	113597	91367	0.804	0.27	
6.757	169915	140391	0.826	0.41	
6.799	199763	174506	0.874	0.48	
6.839	108731	74568	0.686	0.26	
6.910	25743	23546	0.915	0.06	
6.942	104855	87693	0.836	0.25	
7.003	361516	330703	0.915	0.88	8 Aroclor 1260
7.032	43871	37773	0.861	0.10	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.072	17856	10970	0.614	0.04	
7.125	46077	18481	0.401	0.11	
7.249	216012	180735	0.837	0.52	8 Aroclor 1260
7.281	90636	64884	0.716	0.22	
7.340	19668	16194	0.823	0.04	
7.388	168727	146831	0.870	0.41	
7.441	179224	147631	0.824	0.43	8 Aroclor 1260
7.615	17409	10588	0.608	0.04	
7.688	41909	37563	0.896	0.10	
7.725	67237	53221	0.792	0.16	
7.802	36486	22958	0.629	0.08	
7.899	111879	95235	0.851	0.27	8 Aroclor 1260
7.960	22261	12325	0.554	0.05	
8.047	16801	12609	0.750	0.04	
8.273	135567	122139	0.901	0.33	
8.376	14142	11126	0.787	0.03	
8.570	5550767	4782450	0.862	13.52	$ 12 Decachlorobiphenyl
8.945	12780	9956	0.779	0.03	
9.168	21852	18411	0.843	0.05	
9.469	36188	19375	0.535	0.08	
9.961	24876	19643	0.790	0.06	
	41029636	35319212		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018044.D
Lab Smp Id: 40157487005 Client Smp ID: SW3-170614-01-YP-06
Inj Date : 10-APR-2018 23:53
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487005 x2,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 44
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.030	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.484	2.484	0.000	5907556	0.04791	48			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1372085	0.58562	580	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	878217	0.21160	210	0.00- 20.00	64.01	BA
4.812	4.812	0.000	725225	0.35724	360	0.00- 20.00	52.86	BA
4.879	4.879	0.000	1543322	0.30637	300	0.00- 20.00	112.48	BA
5.036	5.038	-0.002	396689	0.11054	110	0.00- 20.00	28.91	BA
Average of Peak Concentrations =					310			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1045495	0.19970	200	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	584287	0.13585	140	0.00- 20.00	55.89	BA
5.508	5.510	-0.002	1154450	0.14865	150	0.00- 20.00	110.42	BA
6.023	6.027	-0.004	621324	0.12759	130	0.00- 20.00	59.43	BA
6.299	6.299	0.000	1585884	0.24372	240	0.00- 20.00	151.69	BA
Average of Peak Concentrations =					170			
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	361515	0.03610	36	0.00- 20.00	22.80	BA
7.249	7.251	-0.002	216011	0.04519	45	0.00- 20.00	13.62	BA
7.440	7.443	-0.003	179223	0.06148	61	0.00- 20.00	11.30	BA
7.899	7.901	-0.002	111879	0.04240	42	0.00- 20.00	7.05	BA
Average of Peak Concentrations =					46			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5550766	0.05066	50			

QC Flag Legend

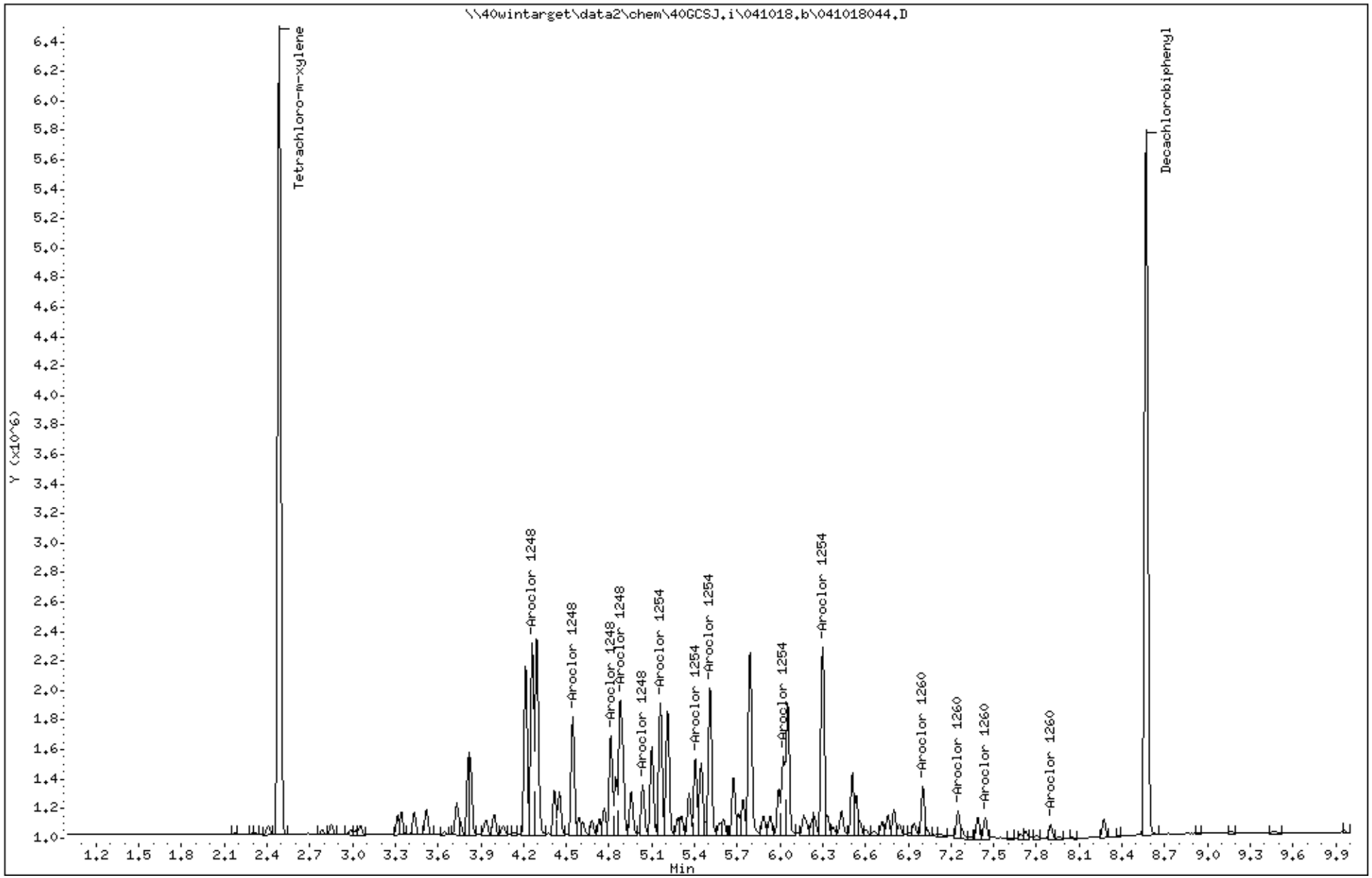
M - Compound response manually integrated.

Review Codes Legend

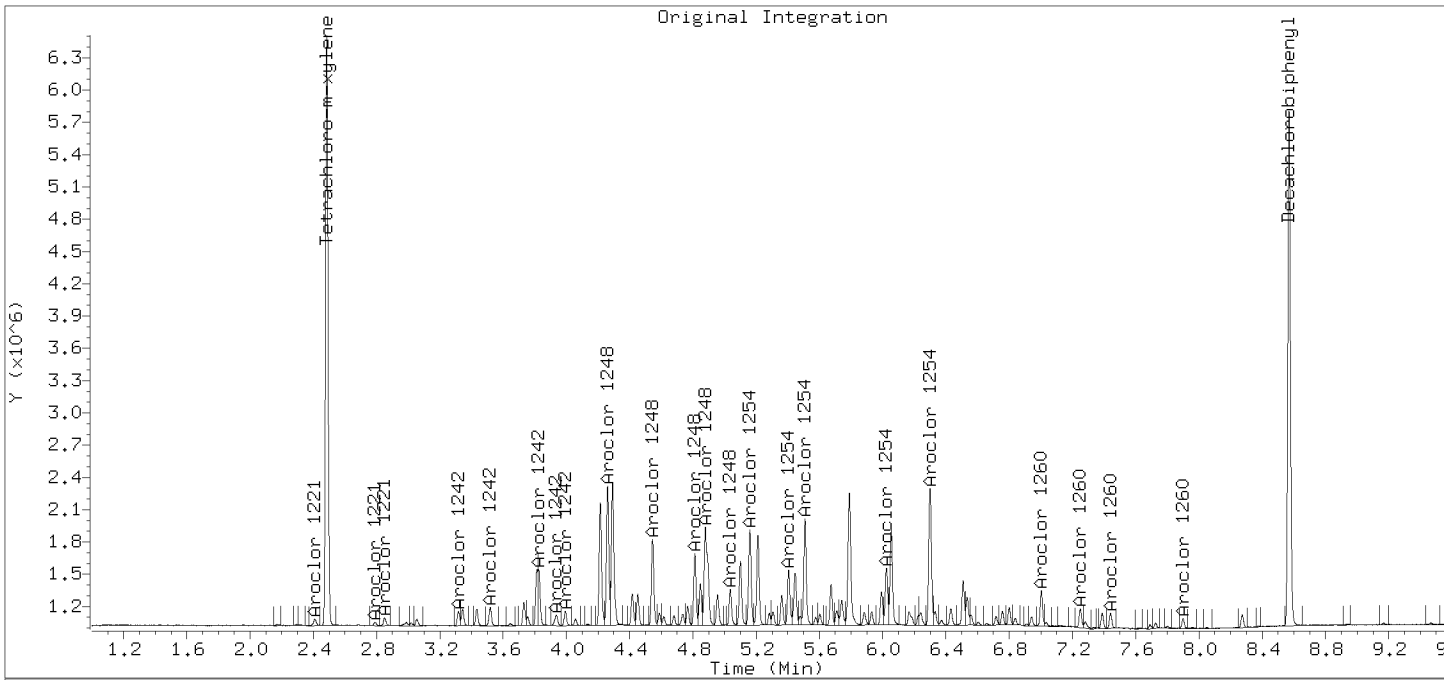
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

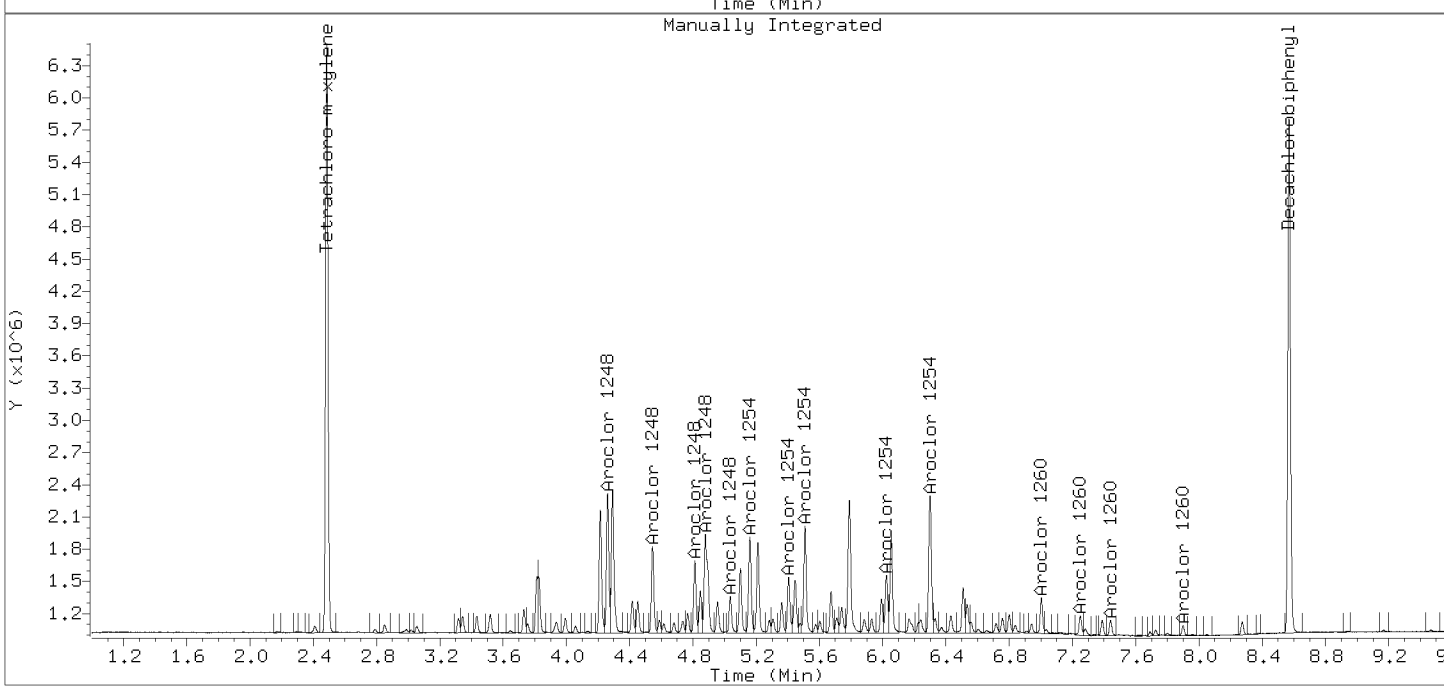
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018044.D
Date : 10-APR-2018 23:53
Client ID: SW3-170614-01-YP-06
Sample Info: 40157487005 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018044.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 23:53 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	143492	0	
Aroclor 1016	143492	0	
Aroclor 1016	143492	0	
Aroclor 1016	143492	0	
Aroclor 1016	143492	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	85079	0	
Aroclor 1232	85079	0	
Aroclor 1232	85079	0	
Aroclor 1232	85079	0	

Aroclor 1232	85079	0	
Aroclor 1242	143492	0	
Aroclor 1242	143492	0	
Aroclor 1242	143492	0	
Aroclor 1242	143492	0	
Aroclor 1242	143492	0	
Aroclor 1248	1357944	1372085	BA
Aroclor 1248	1357944	1372085	BA
Aroclor 1248	1357944	1372085	BA
Aroclor 1248	1357944	1372085	BA
Aroclor 1248	1357944	1372085	BA
Aroclor 1254	1019362	1045495	BA
Aroclor 1254	1019362	1045495	BA
Aroclor 1254	1019362	1045495	BA
Aroclor 1254	1019362	1045495	BA
Aroclor 1254	1019362	1045495	BA
Aroclor 1260	1554416	0	BA
Aroclor 1260	1554416	0	BA
Aroclor 1260	1554416	0	BA
Aroclor 1260	1554416	0	BA
Aroclor 1260	1554416	0	BA
Tetrachloro-m-xylene	5907556	5907556	
Decachlorobiphenyl	5550766	5550766	

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SAMPLE NO.

SW3-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 04/09/2018 07:13
Lab Sample ID: 40157487006
Date Analyzed: 04/11/2018 00:09
Lab File ID: 041018.B\041018045.D
Initial wt/vol: 9.9981 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)	86.9	
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)	261	
11097-69-1	PCB-1254 (Aroclor 1254)	205	
11096-82-5	PCB-1260 (Aroclor 1260)	72.1	
1336-36-3	PCB, Total	625	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018045.D
Lab Smp Id: 40157487006 Client Smp ID: SW3-170614-01-YP-05
Inj Date : 11-APR-2018 00:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487006,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 45
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.998	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.038	15493	12566	0.811	0.01		
1.072	16809	14155	0.842	0.01		
1.094	27253	14275	0.524	0.03		
1.157	16884	12881	0.763	0.01		
1.187	22115	12351	0.558	0.02		
1.430	13801	10558	0.765	0.01		
1.539	10424	9822	0.942	0.01		
1.803	33020	27345	0.828	0.03	1 Aroclor 1221	BA
1.953	18574	11329	0.610	0.02		
2.198	77182	34902	0.452	0.08		
2.410	405236	308292	0.761	0.46	1 Aroclor 1221	BA
2.484	12630284	11942598	0.946	14.99	$ 2 Tetrachloro-m-xylene	BA
2.684	23354	19224	0.823	0.02	1 Aroclor 1221	BA
2.787	54053	43989	0.814	0.06	1 Aroclor 1221	BA
2.851	102806	84105	0.818	0.11	1 Aroclor 1221	BA
2.976	94060	46314	0.492	0.10		
3.019	58389	55733	0.955	0.06		
3.055	313625	288317	0.919	0.35		
3.317	122174	117736	0.964	0.13		
3.344	143131	133328	0.932	0.16		
3.434	405579	386471	0.953	0.46		
3.519	364350	338964	0.930	0.41		
3.644	53303	42487	0.797	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.732	327101	322208	0.985	0.37	
3.755	118706	116918	0.985	0.13	
3.814	715893	802369	1.121	0.81	
3.826	812565	821275	1.011	0.92	
3.939	230235	189847	0.825	0.26	
3.993	279135	258506	0.926	0.31	
4.058	120354	104850	0.871	0.13	
4.137	22291	19106	0.857	0.02	
4.214	1841807	1658666	0.901	2.10	
4.261	2030165	1874902	0.924	2.31	6 Aroclor 1248
4.292	2670725	2282643	0.855	3.05	
4.417	615015	584237	0.950	0.70	
4.452	609322	554304	0.910	0.69	
4.545	1337014	1227862	0.918	1.52	6 Aroclor 1248
4.588	242758	223760	0.922	0.27	
4.616	171408	140960	0.822	0.19	
4.680	215267	186020	0.864	0.24	
4.736	288305	240636	0.835	0.32	
4.767	472396	432411	0.915	0.53	
4.813	1282337	1219235	0.951	1.46	6 Aroclor 1248
4.847	710078	670255	0.944	0.81	
4.878	2684689	1448044	0.539	3.06	6 Aroclor 1248
4.956	735309	622547	0.847	0.83	
5.036	934629	836336	0.895	1.06	6 Aroclor 1248
5.101	1371895	1196825	0.872	1.56	
5.159	2209979	1838015	0.832	2.52	7 Aroclor 1254
5.211	2034008	1741124	0.856	2.32	
5.283	264776	242899	0.917	0.30	
5.308	427020	347598	0.814	0.48	
5.362	675087	606051	0.898	0.77	
5.406	1436579	1255201	0.874	1.64	7 Aroclor 1254
5.447	1411463	1153394	0.817	1.61	
5.478	193956	195371	1.007	0.22	
5.509	2371955	2022666	0.853	2.70	7 Aroclor 1254
5.576	216965	192061	0.885	0.24	
5.604	348600	283243	0.813	0.39	
5.674	1043459	941230	0.902	1.19	
5.709	468716	377951	0.806	0.53	
5.741	745964	572195	0.767	0.85	
5.790	3805111	2902457	0.763	4.34	
5.885	416120	301817	0.725	0.47	
5.931	479714	391972	0.817	0.54	
5.992	1061770	954201	0.899	1.21	
6.024	1574619	1379229	0.876	1.79	7 Aroclor 1254
6.055	2894157	2399192	0.829	3.30	
6.168	627589	380756	0.607	0.71	
6.226	239131	281404	1.177	0.27	
6.240	463402	338371	0.730	0.52	
6.300	4314417	3417683	0.792	4.92	7 Aroclor 1254
6.332	421544	370772	0.880	0.48	
6.372	207278	144702	0.698	0.23	
6.431	616256	489705	0.795	0.70	
6.508	1516764	1330513	0.877	1.73	
6.534	824953	760276	0.922	0.94	
6.559	372161	317235	0.852	0.42	
6.605	143254	109721	0.766	0.16	
6.660	100424	71951	0.716	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.716	347515	274414	0.790	0.39	
6.758	462057	397025	0.859	0.52	
6.800	568526	493494	0.868	0.64	
6.839	296292	212316	0.717	0.33	
6.912	61487	56590	0.920	0.07	
6.941	306936	267042	0.870	0.35	
7.003	1269786	1122812	0.884	1.45	8 Aroclor 1260
7.034	110459	109366	0.990	0.12	
7.074	23674	19291	0.815	0.02	
7.122	37436	26246	0.701	0.04	
7.250	616282	550484	0.893	0.70	8 Aroclor 1260
7.281	226486	181739	0.802	0.25	
7.338	26408	20099	0.761	0.03	
7.389	528750	456731	0.864	0.60	
7.442	518211	463019	0.893	0.59	8 Aroclor 1260
7.550	32570	28879	0.887	0.03	
7.581	11481	11789	1.027	0.01	
7.689	115609	112176	0.970	0.13	
7.727	165803	121072	0.730	0.18	
7.805	90443	50988	0.564	0.10	
7.861	14778	11084	0.750	0.01	
7.899	378352	332859	0.880	0.43	8 Aroclor 1260
7.963	53712	32505	0.605	0.06	
8.049	49256	38957	0.791	0.05	
8.272	348284	304524	0.874	0.39	
8.381	14536	11145	0.767	0.01	
8.571	11005608	9409000	0.855	12.57	$ 12 Decachlorobiphenyl
8.725	25028	16030	0.640	0.02	
9.165	43793	35892	0.820	0.05	
9.729	10247	7424	0.725	0.01	
	87548294	75288412		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018045.D
Lab Smp Id: 40157487006 Client Smp ID: SW3-170614-01-YP-05
Inj Date : 11-APR-2018 00:09
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487006,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 45
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.998	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.803	1.804	-0.001	33019	0.03171	16	0.00- 20.00	100.00(M)	BA
2.409	2.407	0.002	405236	0.73969	370	0.00- 20.00	1227.28	BA
2.683	2.688	-0.005	23353	0.01688	8.4	0.00- 20.00	70.73	BA
2.787	2.789	-0.002	54052	0.04888	24	0.00- 20.00	163.70	BA
2.850	2.851	-0.001	102805	0.03158	16	0.00- 20.00	311.35	BA
Average of Peak Concentrations =					87			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	12630283	0.10244	51		(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	2030165	0.86649	430	0.00- 20.00	100.00(M)	BA
4.544	4.546	-0.002	1337013	0.32215	160	0.00- 20.00	65.86	BA
4.812	4.812	0.000	1282337	0.63167	320	0.00- 20.00	63.16	BA
4.877	4.879	-0.002	2684689	0.53295	270	0.00- 20.00	132.24	BA
5.036	5.038	-0.002	934628	0.26045	130	0.00- 20.00	46.04	BA
Average of Peak Concentrations =					260			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	2209979	0.42213	210	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	1436578	0.33401	170	0.00- 20.00	65.00	BA
5.508	5.510	-0.002	2371955	0.30543	150	0.00- 20.00	107.33	BA
6.024	6.027	-0.003	1574618	0.32335	160	0.00- 20.00	71.25	BA
6.300	6.299	0.001	4314416	0.66303	330	0.00- 20.00	195.22	BA
Average of Peak Concentrations =					200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.003	7.006	-0.003	1269786	0.12680	63	0.00- 20.00	29.43	BA
7.249	7.251	-0.002	616282	0.12893	64	0.00- 20.00	14.28	BA
7.441	7.443	-0.002	518211	0.17777	89	0.00- 20.00	12.01	BA
7.899	7.901	-0.002	378351	0.14338	72	0.00- 20.00	8.77	BA
Average of Peak Concentrations =					72			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	11005608	0.10045	50			

QC Flag Legend

M - Compound response manually integrated.

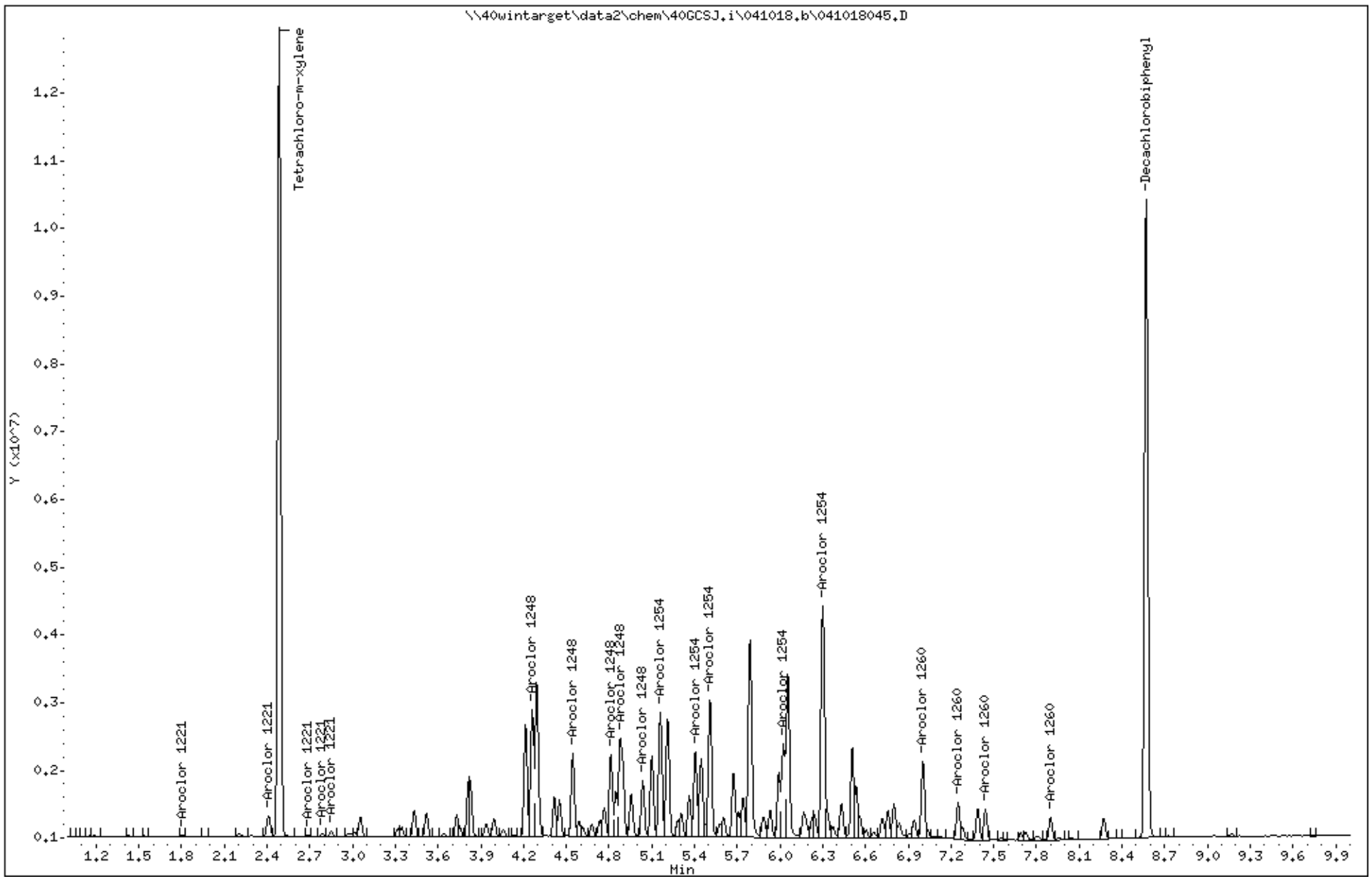
Review Codes Legend

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

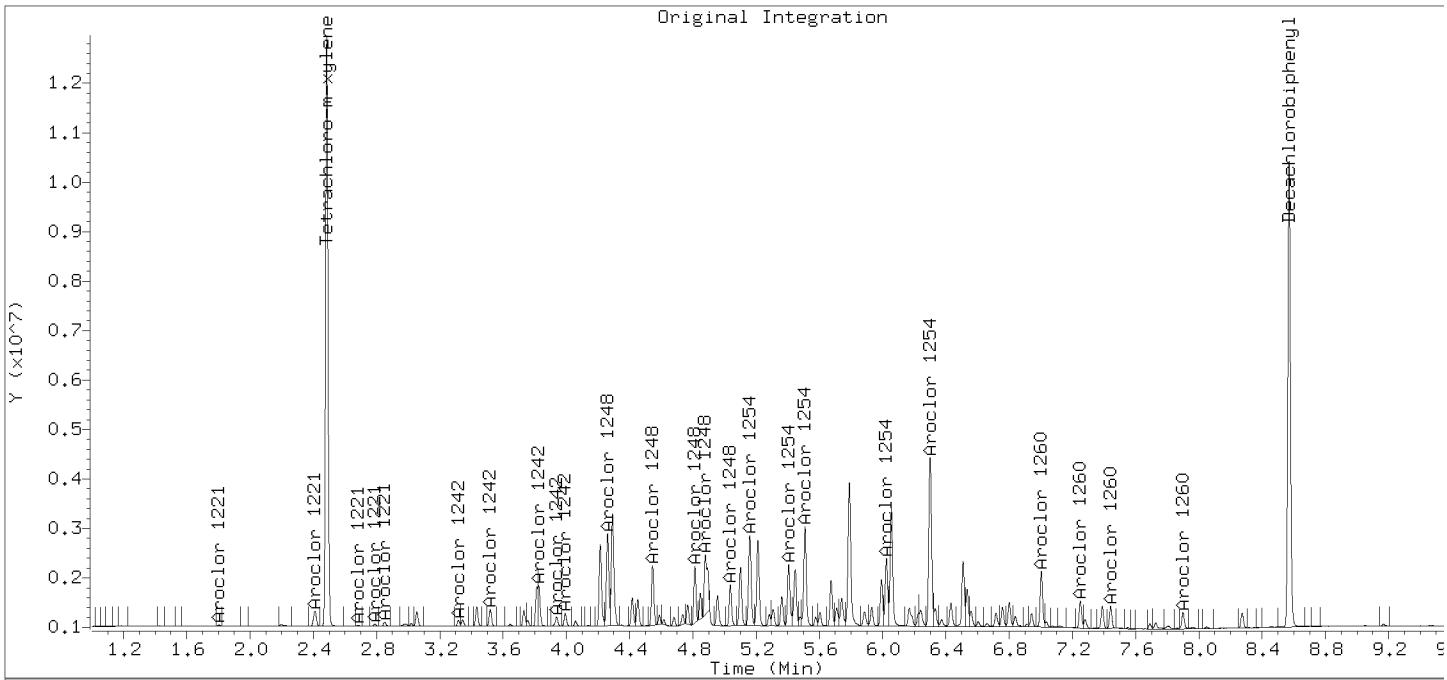
:

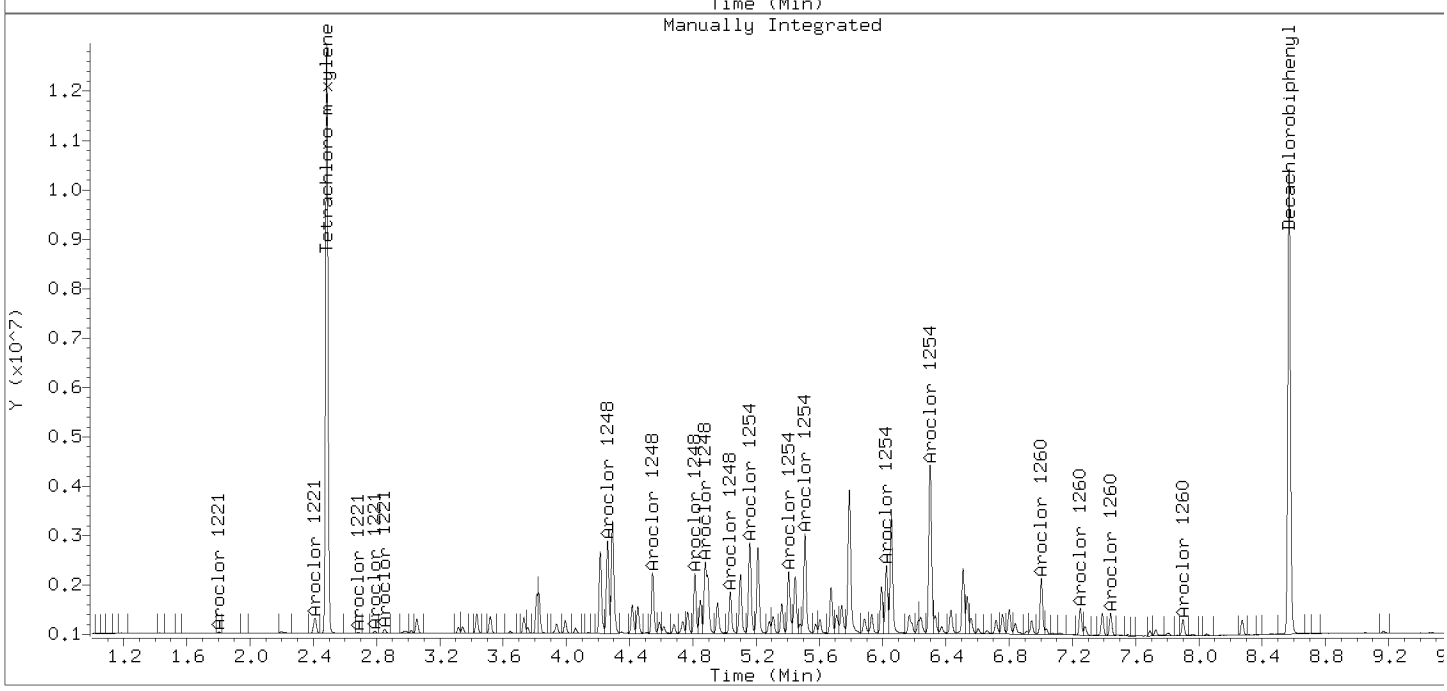
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018045.D
Date : 11-APR-2018 00:09
Client ID: SW3-170614-01-YP-05
Sample Info: 40157487006,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018045.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 00:09 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487006





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	120650	0	
Aroclor 1016	120650	0	
Aroclor 1016	120650	0	
Aroclor 1016	120650	0	
Aroclor 1016	120650	0	
Aroclor 1221	22919	33019	BA
Aroclor 1221	22919	33019	BA
Aroclor 1221	22919	33019	BA
Aroclor 1221	22919	33019	BA
Aroclor 1221	22919	33019	BA
Aroclor 1232	97552	0	
Aroclor 1232	97552	0	
Aroclor 1232	97552	0	
Aroclor 1232	97552	0	

Aroclor 1232	97552	0	
Aroclor 1242	120650	0	
Aroclor 1242	120650	0	
Aroclor 1242	120650	0	
Aroclor 1242	120650	0	
Aroclor 1242	120650	0	
Aroclor 1248	1997263	2030165	BA
Aroclor 1248	1997263	2030165	BA
Aroclor 1248	1997263	2030165	BA
Aroclor 1248	1997263	2030165	BA
Aroclor 1248	1997263	2030165	BA
Aroclor 1254	2143554	2209979	BA
Aroclor 1254	2143554	2209979	BA
Aroclor 1254	2143554	2209979	BA
Aroclor 1254	2143554	2209979	BA
Aroclor 1254	2143554	2209979	BA
Aroclor 1260	4286255	0	BA
Aroclor 1260	4286255	0	BA
Aroclor 1260	4286255	0	BA
Aroclor 1260	4286255	0	BA
Aroclor 1260	4286255	0	BA
Tetrachloro-m-xylene	12617320	12630283	BA
Decachlorobiphenyl	11005608	11005608	

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SAMPLE NO.

SW3-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 04/09/2018 07:13
Lab Sample ID: 40157487007
Date Analyzed: 04/11/2018 00:24
Lab File ID: 041018.B\041018046.D
Initial wt/vol: 10.0132 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	142	
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	318	
11097-69-1	PCB-1254 (Aroclor 1254)	222	
11096-82-5	PCB-1260 (Aroclor 1260)	78.2	J
1336-36-3	PCB, Total	761	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018046.D
Lab Smp Id: 40157487007 Client Smp ID: SW3-170614-01-YP-04
Inj Date : 11-APR-2018 00:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487007 x2,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 46
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.013	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.807	56187	37392	0.665	0.11	1 Aroclor 1221	BA
2.292	17540	14751	0.841	0.03		
2.318	20450	15925	0.779	0.04		
2.410	328834	242654	0.738	0.70	1 Aroclor 1221	BA
2.485	5848833	5503901	0.941	12.96	$ 2 Tetrachloro-m-xylene	BA
2.684	16221	14973	0.923	0.03	1 Aroclor 1221	BA
2.788	32840	24447	0.744	0.07	1 Aroclor 1221	BA
2.851	56654	45619	0.805	0.12	1 Aroclor 1221	BA
2.975	44657	23423	0.525	0.09		
3.019	22808	23593	1.034	0.04		
3.055	176593	162901	0.922	0.37		
3.317	43113	42241	0.980	0.09		
3.345	51099	46808	0.916	0.10		
3.432	173587	165213	0.952	0.37		
3.519	213391	204864	0.960	0.45		
3.647	32055	28826	0.899	0.06		
3.732	216765	211563	0.976	0.46		
3.755	66160	65366	0.988	0.14		
3.813	836037	479377	0.573	1.78		
3.939	122621	98154	0.800	0.26		
3.993	151500	138339	0.913	0.32		
4.059	66770	53825	0.806	0.14		
4.215	1324309	1205160	0.910	2.82		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.261	1410174	1353469	0.960	3.00	6 Aroclor 1248
4.291	1733931	1485612	0.857	3.69	
4.344	26758	23012	0.860	0.05	
4.416	318474	284485	0.893	0.67	
4.451	326385	292533	0.896	0.69	
4.545	799233	742625	0.929	1.70	6 Aroclor 1248
4.588	170761	161236	0.944	0.36	
4.616	88461	70496	0.797	0.18	
4.681	148195	130526	0.881	0.31	
4.736	187518	156248	0.833	0.39	
4.768	256574	241286	0.940	0.54	
4.812	692513	659675	0.953	1.47	6 Aroclor 1248
4.847	427789	401099	0.938	0.91	
4.879	1653099	866169	0.524	3.52	6 Aroclor 1248
4.956	451229	386621	0.857	0.96	
5.037	462791	426370	0.921	0.98	6 Aroclor 1248
5.101	847074	762879	0.901	1.80	
5.160	1295533	1086810	0.839	2.76	7 Aroclor 1254
5.212	1097531	990002	0.902	2.33	
5.282	152405	146706	0.963	0.32	
5.308	244527	198942	0.814	0.52	
5.362	347179	313495	0.903	0.74	
5.406	804524	721195	0.896	1.71	7 Aroclor 1254
5.447	700039	580510	0.829	1.49	
5.477	127869	120396	0.942	0.27	
5.509	1364972	1197754	0.877	2.91	7 Aroclor 1254
5.578	120502	106266	0.882	0.25	
5.604	167469	138822	0.829	0.35	
5.674	616486	572934	0.929	1.31	
5.709	250548	198038	0.790	0.53	
5.742	403365	303621	0.753	0.85	
5.789	2001946	1555835	0.777	4.26	
5.885	230291	166311	0.722	0.49	
5.932	256478	206844	0.806	0.54	
5.993	527131	483257	0.917	1.12	
6.024	811724	715815	0.882	1.73	7 Aroclor 1254
6.054	1404896	1204373	0.857	2.99	
6.168	330671	189769	0.574	0.70	
6.227	118654	144164	1.215	0.25	
6.240	223056	171050	0.767	0.47	
6.300	2192253	1725829	0.787	4.67	7 Aroclor 1254
6.331	205257	185556	0.904	0.43	
6.374	100958	72552	0.719	0.21	
6.431	325154	270210	0.831	0.69	
6.509	778187	706885	0.908	1.65	
6.534	377273	329425	0.873	0.80	
6.559	177591	155996	0.878	0.37	
6.605	75249	56017	0.744	0.16	
6.660	51738	38539	0.745	0.11	
6.719	168827	137894	0.817	0.35	
6.758	246779	206968	0.839	0.52	
6.801	274440	241451	0.880	0.58	
6.839	160681	116381	0.724	0.34	
6.911	35274	33662	0.954	0.07	
6.942	145347	130892	0.901	0.30	
7.004	591822	546312	0.923	1.26	8 Aroclor 1260
7.034	60771	56374	0.928	0.12	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.074	8835	9927	1.124	0.01	
7.119	25916	18889	0.729	0.05	
7.249	315950	265878	0.842	0.67	8 Aroclor 1260
7.282	124141	95443	0.769	0.26	
7.340	34487	17718	0.514	0.07	
7.389	261323	253334	0.969	0.55	
7.441	314088	260065	0.828	0.66	8 Aroclor 1260
7.549	21257	19976	0.940	0.04	
7.581	10779	10934	1.014	0.02	
7.613	19743	11953	0.605	0.04	
7.661	11017	14665	1.331	0.02	
7.692	61401	60133	0.979	0.13	
7.728	101584	77955	0.767	0.21	
7.799	59988	33477	0.558	0.12	
7.860	8737	9098	1.041	0.01	
7.899	212242	188649	0.889	0.45	8 Aroclor 1260
7.961	31554	18131	0.575	0.06	
8.009	6292	6317	1.004	0.01	
8.049	19408	15885	0.818	0.04	
8.273	230113	204904	0.890	0.49	
8.377	10259	9768	0.952	0.02	
8.570	5499251	4623360	0.841	11.72	$ 12 Decachlorobiphenyl
9.166	29741	23791	0.800	0.06	
	46903483	40067758		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018046.D
Lab Smp Id: 40157487007 Client Smp ID: SW3-170614-01-YP-04
Inj Date : 11-APR-2018 00:24
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487007 x2,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 46
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.013	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.806	1.804	0.002	56186	0.05396	54	0.00- 20.00	100.00(M)	BA
2.410	2.407	0.003	328833	0.60023	600	0.00- 20.00	585.26	BA
2.684	2.688	-0.004	16221	0.01173	12	0.00- 20.00	28.87	BA
2.788	2.789	-0.001	32839	0.02970	30	0.00- 20.00	58.45	BA
2.850	2.851	-0.001	56653	0.01740	17	0.00- 20.00	100.83	BA
Average of Peak Concentrations =					140			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5848832	0.04744	47		(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	1410174	0.60187	600	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	799232	0.19257	190	0.00- 20.00	56.68	BA
4.812	4.812	0.000	692513	0.34113	340	0.00- 20.00	49.11	BA
4.878	4.879	-0.001	1653098	0.32816	330	0.00- 20.00	117.23	BA
5.036	5.038	-0.002	462790	0.12896	130	0.00- 20.00	32.82	BA
Average of Peak Concentrations =					320			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1295532	0.24746	250	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	804523	0.18705	190	0.00- 20.00	62.10	BA
5.509	5.510	-0.001	1364971	0.17576	180	0.00- 20.00	105.36	BA
6.024	6.027	-0.003	811723	0.16669	170	0.00- 20.00	62.66	BA
6.299	6.299	0.000	2192253	0.33690	340	0.00- 20.00	169.22	BA
Average of Peak Concentrations =					220			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	591822	0.05910	59	0.00- 20.00	27.00	BA
7.249	7.251	-0.002	315950	0.06610	66	0.00- 20.00	14.41	BA
7.441	7.443	-0.002	314087	0.10774	110	0.00- 20.00	14.33	BA
7.899	7.901	-0.002	212242	0.08043	80	0.00- 20.00	9.68	BA
Average of Peak Concentrations =					78			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5499250	0.05019	50			

QC Flag Legend

M - Compound response manually integrated.

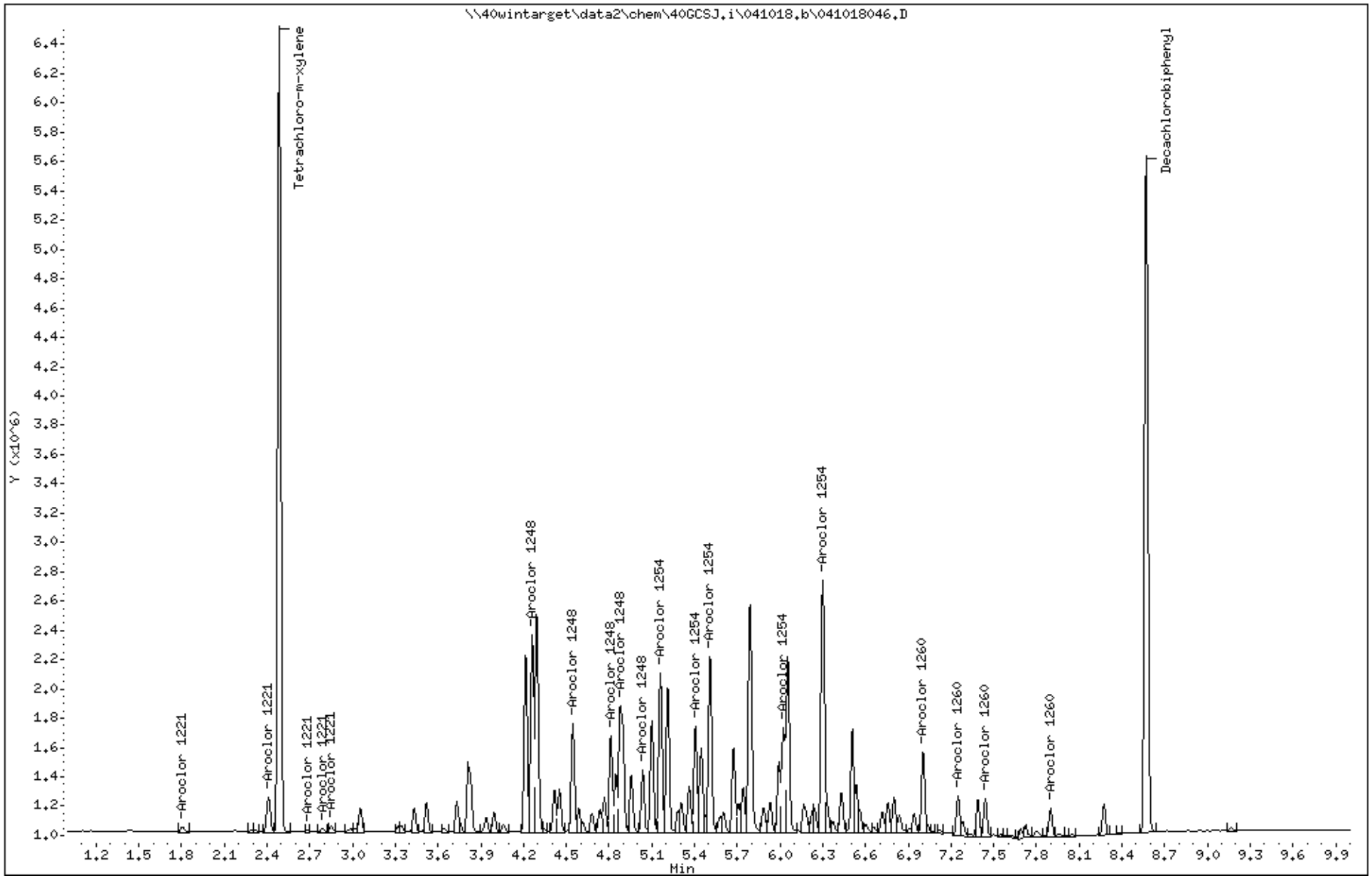
Review Codes Legend

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

:

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018046.D
Date : 11-APR-2018 00:24
Client ID: SW3-170614-01-YP-04
Sample Info: 40157487007 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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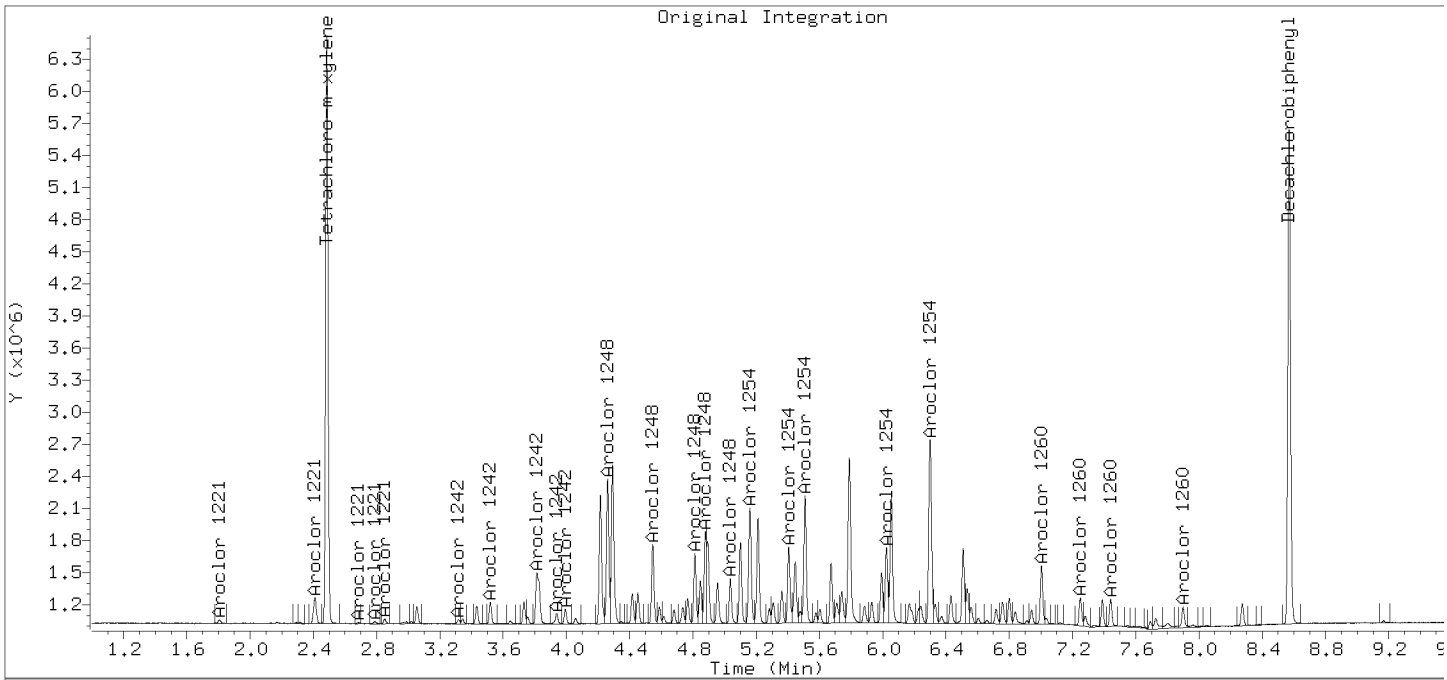
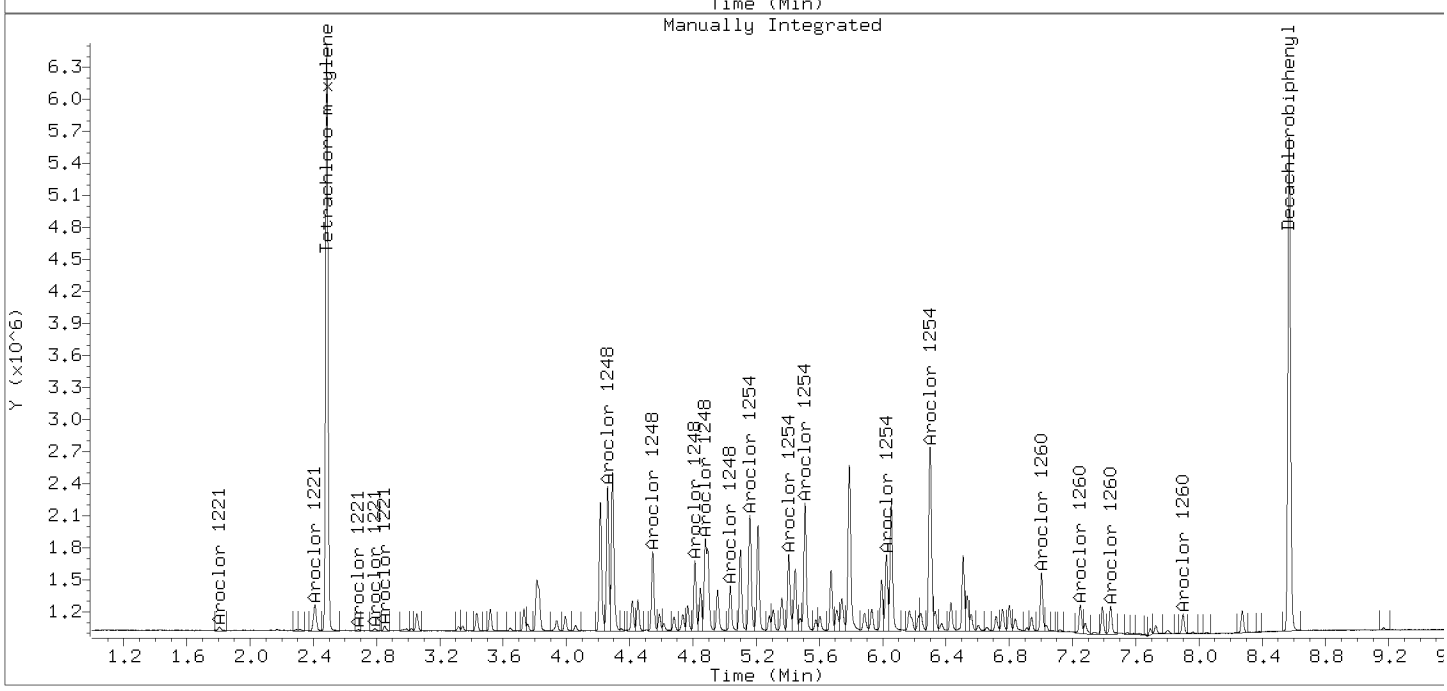
Injection Date: 11-APR-2018 00:24 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	43113	0	
Aroclor 1016	43113	0	
Aroclor 1016	43113	0	
Aroclor 1016	43113	0	
Aroclor 1016	43113	0	
Aroclor 1221	50731	56186	BA
Aroclor 1221	50731	56186	BA
Aroclor 1221	50731	56186	BA
Aroclor 1221	50731	56186	BA
Aroclor 1221	50731	56186	BA
Aroclor 1232	50656	0	
Aroclor 1232	50656	0	
Aroclor 1232	50656	0	
Aroclor 1232	50656	0	

Aroclor 1232	50656	0	
Aroclor 1242	43113	0	
Aroclor 1242	43113	0	
Aroclor 1242	43113	0	
Aroclor 1242	43113	0	
Aroclor 1242	43113	0	
Aroclor 1248	1399944	1410174	BA
Aroclor 1248	1399944	1410174	BA
Aroclor 1248	1399944	1410174	BA
Aroclor 1248	1399944	1410174	BA
Aroclor 1248	1399944	1410174	BA
Aroclor 1254	1270772	1295532	BA
Aroclor 1254	1270772	1295532	BA
Aroclor 1254	1270772	1295532	BA
Aroclor 1254	1270772	1295532	BA
Aroclor 1254	1270772	1295532	BA
Aroclor 1260	2168211	0	BA
Aroclor 1260	2168211	0	BA
Aroclor 1260	2168211	0	BA
Aroclor 1260	2168211	0	BA
Aroclor 1260	2168211	0	BA
Tetrachloro-m-xylene	5824396	5848832	BA
Decachlorobiphenyl	5499250	5499250	

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SAMPLE NO.

SW3-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 04/09/2018 07:13
Lab Sample ID: 40157487008
Date Analyzed: 04/11/2018 00:40
Lab File ID: 041018.B\041018047.D
Initial wt/vol: 9.9774 g Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.7	U
11104-28-2	PCB-1221 (Aroclor 1221)	191	J
11141-16-5	PCB-1232 (Aroclor 1232)	<45.7	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.7	U
12672-29-6	PCB-1248 (Aroclor 1248)	857	
11097-69-1	PCB-1254 (Aroclor 1254)	421	
11096-82-5	PCB-1260 (Aroclor 1260)	85.9	J
1336-36-3	PCB, Total	1550	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018047.D
Lab Smp Id: 40157487008 Client Smp ID: SW3-170614-01-YP-03
Inj Date : 11-APR-2018 00:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487008 x4,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 47
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.800	21231	16871	0.795	0.05		1 Aroclor 1221	BA
2.410	210903	156667	0.743	0.49		1 Aroclor 1221	BA
2.485	3096326	2886913	0.932	7.78	$	2 Tetrachloro-m-xylene	BA
2.682	21438	14564	0.679	0.05		1 Aroclor 1221	BA
2.790	32025	27927	0.872	0.07		1 Aroclor 1221	BA
2.851	84248	71604	0.850	0.19		1 Aroclor 1221	BA
2.975	35167	19673	0.559	0.08			
3.018	21326	18855	0.884	0.05			
3.056	165663	149035	0.900	0.39			
3.318	98747	92907	0.941	0.23			
3.344	124925	111478	0.892	0.29			
3.433	291962	270736	0.927	0.68			
3.518	301646	276333	0.916	0.71			
3.646	52601	37409	0.711	0.12			
3.731	334501	322918	0.965	0.78			
3.756	109154	106792	0.978	0.25			
3.813	1270722	733387	0.577	2.99			
3.939	192874	150515	0.780	0.45			
3.993	232304	211703	0.911	0.54			
4.058	114131	98875	0.866	0.26			
4.137	18246	15967	0.875	0.04			
4.214	1908816	1697604	0.889	4.49			
4.260	1928732	1813288	0.940	4.54		6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.291	1894468	1609801	0.850	4.46	
4.347	33604	20460	0.609	0.07	
4.417	695592	653585	0.940	1.63	
4.452	515636	455091	0.883	1.21	
4.545	1097463	1019929	0.929	2.58	6 Aroclor 1248
4.588	155561	145148	0.933	0.36	
4.617	127790	111933	0.876	0.30	
4.681	138255	117090	0.847	0.32	
4.735	174655	128677	0.737	0.41	
4.767	213914	203399	0.951	0.50	
4.812	756372	735562	0.972	1.78	6 Aroclor 1248
4.847	878765	820108	0.933	2.07	
4.878	2352813	1301230	0.553	5.54	6 Aroclor 1248
4.955	483660	417235	0.863	1.13	
5.036	758720	701528	0.925	1.78	6 Aroclor 1248
5.100	846296	746652	0.882	1.99	
5.160	1273395	1097471	0.862	3.00	7 Aroclor 1254
5.211	952202	848387	0.891	2.24	
5.283	130231	116039	0.891	0.30	
5.307	186237	157448	0.845	0.43	
5.362	424409	378508	0.892	1.00	
5.406	841943	749839	0.891	1.98	7 Aroclor 1254
5.445	603903	511057	0.846	1.42	
5.477	126195	122387	0.970	0.29	
5.509	1592834	1389461	0.872	3.75	7 Aroclor 1254
5.575	88241	74362	0.843	0.20	
5.603	217121	168123	0.774	0.51	
5.674	465555	440383	0.946	1.09	
5.710	258305	194145	0.752	0.60	
5.742	302043	235556	0.780	0.71	
5.788	1835946	1395815	0.760	4.32	
5.883	200452	135917	0.678	0.47	
5.929	170261	121807	0.715	0.40	
5.992	326332	293139	0.898	0.76	
6.023	766021	673206	0.879	1.80	7 Aroclor 1254
6.054	948676	804119	0.848	2.23	
6.168	263815	151934	0.576	0.62	
6.225	88899	95042	1.069	0.20	
6.241	154171	117763	0.764	0.36	
6.299	1611143	1303527	0.809	3.79	7 Aroclor 1254
6.332	143653	124361	0.866	0.33	
6.371	82437	59051	0.716	0.19	
6.432	194297	149807	0.771	0.45	
6.508	588265	525620	0.894	1.38	
6.533	284404	250069	0.879	0.67	
6.559	117324	98871	0.843	0.27	
6.604	63951	38937	0.609	0.15	
6.659	33827	28221	0.834	0.07	
6.716	137797	110112	0.799	0.32	
6.758	163025	137571	0.844	0.38	
6.801	176019	147494	0.838	0.41	
6.838	115243	76904	0.667	0.27	
6.911	27929	22893	0.820	0.06	
6.941	95293	80111	0.841	0.22	
7.003	326395	290770	0.891	0.76	8 Aroclor 1260
7.033	50821	42420	0.835	0.11	
7.120	29634	17934	0.605	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.249	176436	154955	0.878	0.41	8 Aroclor 1260
7.279	76633	57920	0.756	0.18	
7.334	20264	16166	0.798	0.04	
7.387	195291	165235	0.846	0.46	
7.442	172126	146782	0.853	0.40	8 Aroclor 1260
7.494	10163	11004	1.083	0.02	
7.514	9356	7999	0.855	0.02	
7.551	12028	12105	1.006	0.02	
7.574	10486	9942	0.948	0.02	
7.692	38889	36385	0.936	0.09	
7.727	64075	55545	0.867	0.15	
7.778	18501	17067	0.923	0.04	
7.798	34389	22273	0.648	0.08	
7.899	113325	98055	0.865	0.26	8 Aroclor 1260
8.050	17179	13233	0.770	0.04	
8.273	136442	119515	0.876	0.32	
8.570	3047667	2602908	0.854	7.18	$ 12 Decachlorobiphenyl
9.167	23706	20203	0.852	0.05	
	42426851	35833322		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018047.D
Lab Smp Id: 40157487008 Client Smp ID: SW3-170614-01-YP-03
Inj Date : 11-APR-2018 00:40
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487008 x4,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 47
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.805	1.804	0.001	21230	0.02039	41	0.00- 20.00	100.00(M)	BA
2.409	2.407	0.002	210903	0.38497	770	0.00- 20.00	993.42	BA
2.682	2.688	-0.006	21438	0.01550	31	0.00- 20.00	100.98	BA
2.789	2.789	0.000	32024	0.02896	58	0.00- 20.00	150.84	BA
2.850	2.851	-0.001	84248	0.02588	52	0.00- 20.00	396.83	BA
Average of Peak Concentrations =					190			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	3096326	0.02511	50		(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	1928732	0.82320	1600	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	1097463	0.26443	530	0.00- 20.00	56.90	BA
4.812	4.812	0.000	756372	0.37258	750	0.00- 20.00	39.22	BA
4.878	4.879	-0.001	2352812	0.46706	940	0.00- 20.00	121.99	BA
5.036	5.038	-0.002	758719	0.21143	420	0.00- 20.00	39.34	BA
		Average of Peak Concentrations =			860			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1273394	0.24323	490	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	841942	0.19575	390	0.00- 20.00	66.12	BA
5.508	5.510	-0.002	1592833	0.20510	410	0.00- 20.00	125.09	BA
6.023	6.027	-0.004	766020	0.15730	320	0.00- 20.00	60.16	BA
6.299	6.299	0.000	1611142	0.24760	500	0.00- 20.00	126.52	BA
		Average of Peak Concentrations =			420			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.002	7.006	-0.004	326395	0.03259	65	0.00- 20.00	20.26	BA
7.249	7.251	-0.002	176435	0.03691	74	0.00- 20.00	10.95	BA
7.441	7.443	-0.002	172126	0.05905	120	0.00- 20.00	10.68	BA
7.899	7.901	-0.002	113325	0.04295	86	0.00- 20.00	7.03	BA
		Average of Peak Concentrations =			86			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	3047667	0.02782	56			

QC Flag Legend

M - Compound response manually integrated.

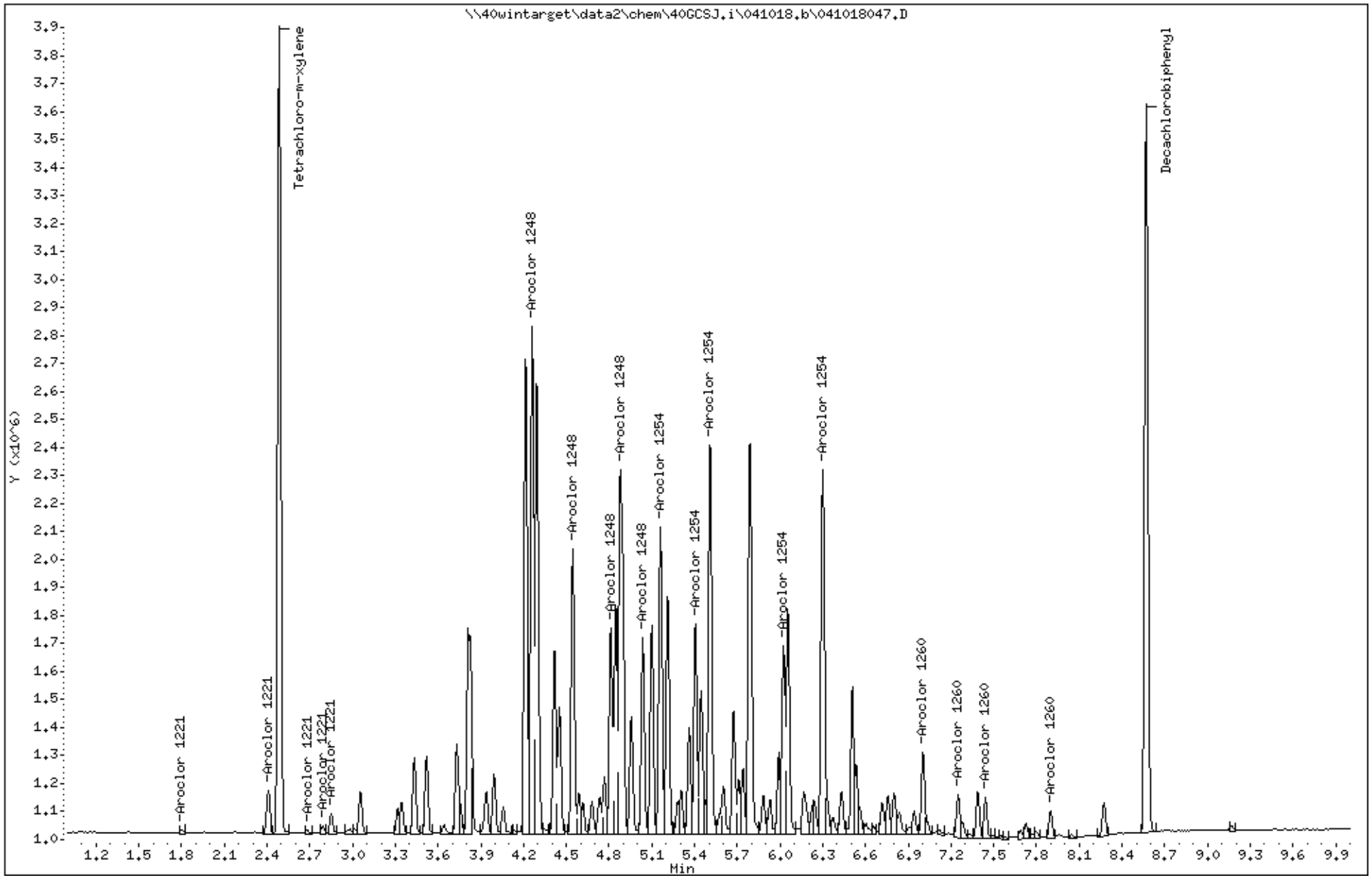
Review Codes Legend

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

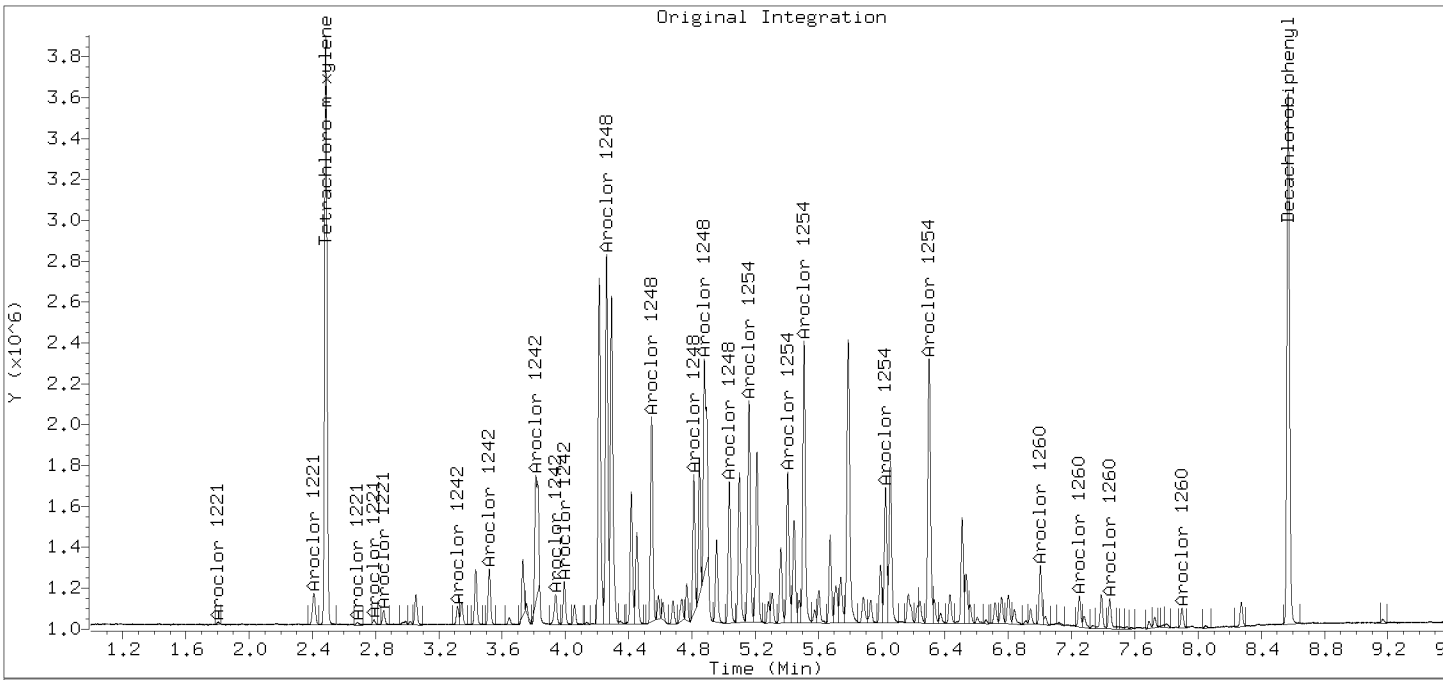
:

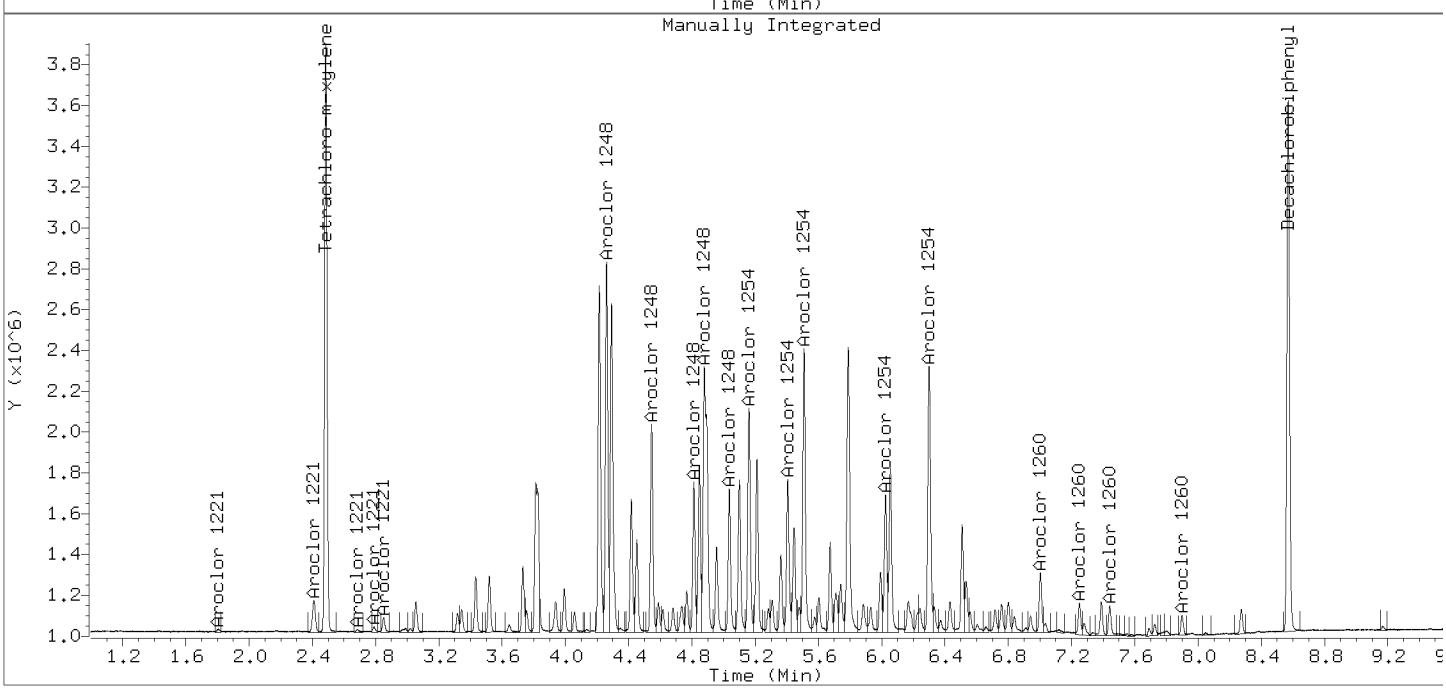
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018047.D
Date : 11-APR-2018 00:40
Client ID: SW3-170614-01-YP-03
Sample Info: 40157487008 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018047.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 00:40 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487008





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	97933	0	
Aroclor 1016	97933	0	
Aroclor 1016	97933	0	
Aroclor 1016	97933	0	
Aroclor 1016	97933	0	
Aroclor 1221	13862	21230	BA
Aroclor 1221	13862	21230	BA
Aroclor 1221	13862	21230	BA
Aroclor 1221	13862	21230	BA
Aroclor 1221	13862	21230	BA
Aroclor 1232	79113	0	
Aroclor 1232	79113	0	
Aroclor 1232	79113	0	
Aroclor 1232	79113	0	

Aroclor 1232	79113	0	
Aroclor 1242	97933	0	
Aroclor 1242	97933	0	
Aroclor 1242	97933	0	
Aroclor 1242	97933	0	
Aroclor 1242	97933	0	
Aroclor 1248	1917031	1928732	BA
Aroclor 1248	1917031	1928732	BA
Aroclor 1248	1917031	1928732	BA
Aroclor 1248	1917031	1928732	BA
Aroclor 1248	1917031	1928732	BA
Aroclor 1254	1224044	1273394	BA
Aroclor 1254	1224044	1273394	BA
Aroclor 1254	1224044	1273394	BA
Aroclor 1254	1224044	1273394	BA
Aroclor 1254	1224044	1273394	BA
Aroclor 1260	1578724	0	BA
Aroclor 1260	1578724	0	BA
Aroclor 1260	1578724	0	BA
Aroclor 1260	1578724	0	BA
Aroclor 1260	1578724	0	BA
Tetrachloro-m-xylene	3085308	3096326	BA
Decachlorobiphenyl	3047667	3047667	

==========

SAMPLE NO.

SW3-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 04/09/2018 07:13
Lab Sample ID: 40157487009
Date Analyzed: 04/11/2018 00:56
Lab File ID: 041018.B\041018048.D
Initial wt/vol: 10.0287 Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.5	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.5	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.5	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.5	U
12672-29-6	PCB-1248 (Aroclor 1248)	511	
11097-69-1	PCB-1254 (Aroclor 1254)	680	
11096-82-5	PCB-1260 (Aroclor 1260)	239	
1336-36-3	PCB, Total	1430	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018048.D
Lab Smp Id: 40157487009 Client Smp ID: SW3-170614-01-YP-02
Inj Date : 11-APR-2018 00:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487009 x4,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 48
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.029	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.186	11219	6934	0.618	0.02		
2.412	40428	27210	0.673	0.08		
2.485	2616264	2434222	0.930	5.41	$ 2 Tetrachloro-m-xylene	
2.853	18759	14060	0.750	0.03		
3.020	10329	8700	0.842	0.02		
3.057	33837	27491	0.812	0.07		
3.314	16299	17204	1.056	0.03	3 Aroclor 1242	BA
3.345	19979	18912	0.947	0.04		
3.434	50122	45366	0.905	0.10		
3.519	57037	52295	0.917	0.11	3 Aroclor 1242	BA
3.646	9444	7960	0.843	0.01		
3.733	52361	47339	0.904	0.10		
3.753	21591	20363	0.943	0.04		
3.826	268395	157547	0.587	0.55	3 Aroclor 1242	BA
3.938	41579	29323	0.705	0.08	3 Aroclor 1242	BA
3.992	69576	61355	0.882	0.14	3 Aroclor 1242	BA
4.056	36935	29579	0.801	0.07		
4.215	744867	674464	0.905	1.54		
4.261	832111	795602	0.956	1.72	6 Aroclor 1248	BA
4.293	1074795	950761	0.885	2.22		
4.417	292295	269957	0.924	0.60		
4.451	270577	247573	0.915	0.56		
4.545	663428	620985	0.936	1.37	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.589	114710	102451	0.893	0.23	
4.615	67197	54806	0.816	0.13	
4.681	116655	103772	0.890	0.24	
4.737	164544	144793	0.880	0.34	
4.767	228698	209650	0.917	0.47	
4.812	620811	594376	0.957	1.28	6 Aroclor 1248
4.847	372075	350341	0.942	0.77	
4.878	1725822	915697	0.531	3.57	6 Aroclor 1248
4.957	475483	413805	0.870	0.98	
5.037	419944	385082	0.917	0.86	6 Aroclor 1248
5.101	973571	862499	0.886	2.01	
5.161	1777991	1540375	0.866	3.68	7 Aroclor 1254
5.212	1485086	1312801	0.884	3.07	
5.284	186800	180377	0.966	0.38	
5.307	307550	255041	0.829	0.63	
5.362	468101	432769	0.925	0.96	
5.406	1071282	987963	0.922	2.21	7 Aroclor 1254
5.446	904307	733116	0.811	1.87	
5.478	156692	153458	0.979	0.32	
5.509	2086270	1766408	0.847	4.32	7 Aroclor 1254
5.577	155007	140552	0.907	0.32	
5.603	213784	185548	0.868	0.44	
5.675	914995	848837	0.928	1.89	
5.709	408399	328916	0.805	0.84	
5.741	581327	458057	0.788	1.20	
5.789	3208959	2410968	0.751	6.64	
5.885	310115	239064	0.771	0.64	
5.931	380588	337581	0.887	0.78	
5.993	851598	772412	0.907	1.76	
6.024	1383598	1206065	0.872	2.86	7 Aroclor 1254
6.055	2360551	1999658	0.847	4.88	
6.168	570391	366563	0.643	1.18	
6.227	216152	227864	1.054	0.44	
6.241	301564	249559	0.828	0.62	
6.300	3670366	2997772	0.817	8.03	7 Aroclor 1254
6.332	337439	315778	0.936	0.69	
6.372	148240	121122	0.817	0.30	
6.430	544022	455485	0.837	1.12	
6.509	1376972	1209347	0.878	2.85	
6.535	491993	453702	0.922	1.01	
6.559	301291	258701	0.859	0.62	
6.605	112032	95362	0.851	0.23	
6.660	72644	63138	0.869	0.15	
6.718	280535	239482	0.854	0.58	
6.758	395911	339707	0.858	0.81	
6.801	520663	486072	0.934	1.07	
6.838	276502	216640	0.784	0.57	
6.912	55756	53844	0.966	0.11	
6.941	233016	217838	0.935	0.48	
7.003	980967	867869	0.885	2.03	8 Aroclor 1260
7.034	126625	111543	0.881	0.26	
7.074	16005	18039	1.127	0.03	
7.119	20649	15910	0.770	0.04	
7.250	491624	450817	0.917	1.01	8 Aroclor 1260
7.281	190555	165155	0.867	0.39	
7.388	485318	419579	0.865	1.00	
7.441	460255	408209	0.887	0.95	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.550	27846	26196	0.941	0.05	
7.689	108614	100296	0.923	0.22	
7.727	119902	108148	0.902	0.24	
7.803	65154	39979	0.614	0.13	
7.899	318898	284346	0.892	0.66	8 Aroclor 1260
7.958	40653	28001	0.689	0.08	
8.049	10653	11738	1.102	0.02	
8.274	278397	237855	0.854	0.57	
8.571	2861047	2443153	0.854	5.92	$ 12 Decachlorobiphenyl
8.726	12424	10679	0.860	0.02	
9.167	23183	18491	0.798	0.04	
	48288997	41126419		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018048.D
Lab Smp Id: 40157487009 Client Smp ID: SW3-170614-01-YP-02
Inj Date : 11-APR-2018 00:56
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487009 x4,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 48
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.029	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	2616264	0.02122	42			
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.								

```
                                        CONCENTRATIONS
                                        ON-COL    FINAL
  RT   EXP RT   DLT RT         RESPONSE (ug/ml)  (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          832111 0.35515      710   0.00-  20.00   100.00(M)      BA
4.545    4.546   -0.001          663427 0.15985      320   0.00-  20.00    79.73         BA
4.812    4.812    0.000          620811 0.30581      610   0.00-  20.00    74.61         BA
4.878    4.879   -0.001         1725822 0.34260      680   0.00-  20.00   207.40         BA
5.036    5.038   -0.002          419944 0.11702      230   0.00-  20.00    50.47         BA
               Average of Peak Concentrations =      510
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.161    5.162   -0.001         1777991 0.33962      680   0.00-  20.00   100.00(M)      BA
5.405    5.408   -0.003         1071281 0.24907      500   0.00-  20.00    60.25         BA
5.509    5.510   -0.001         2086270 0.26864      540   0.00-  20.00   117.34         BA
6.024    6.027   -0.003         1383597 0.28412      570   0.00-  20.00    77.82         BA
6.299    6.299    0.000         3670366 0.56406     1100   0.00-  20.00   206.43         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)      BA
7.003    7.006   -0.003          980967 0.09796      200   0.00-  20.00    26.73         BA
7.249    7.251   -0.002          491623 0.10285      200   0.00-  20.00    13.39         BA
7.441    7.443   -0.002          460255 0.15789      310   0.00-  20.00    12.54         BA
7.899    7.901   -0.002          318897 0.12085      240   0.00-  20.00     8.69         BA
               Average of Peak Concentrations =      240
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.570    8.571   -0.001         2861047 0.02611       52
-------------------------------------------------------------------------------
```

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018048.D

Date : 11-APR-2018 00:56

Client ID: SW3-170614-01-YP-02

Instrument: 40GCSJ.i

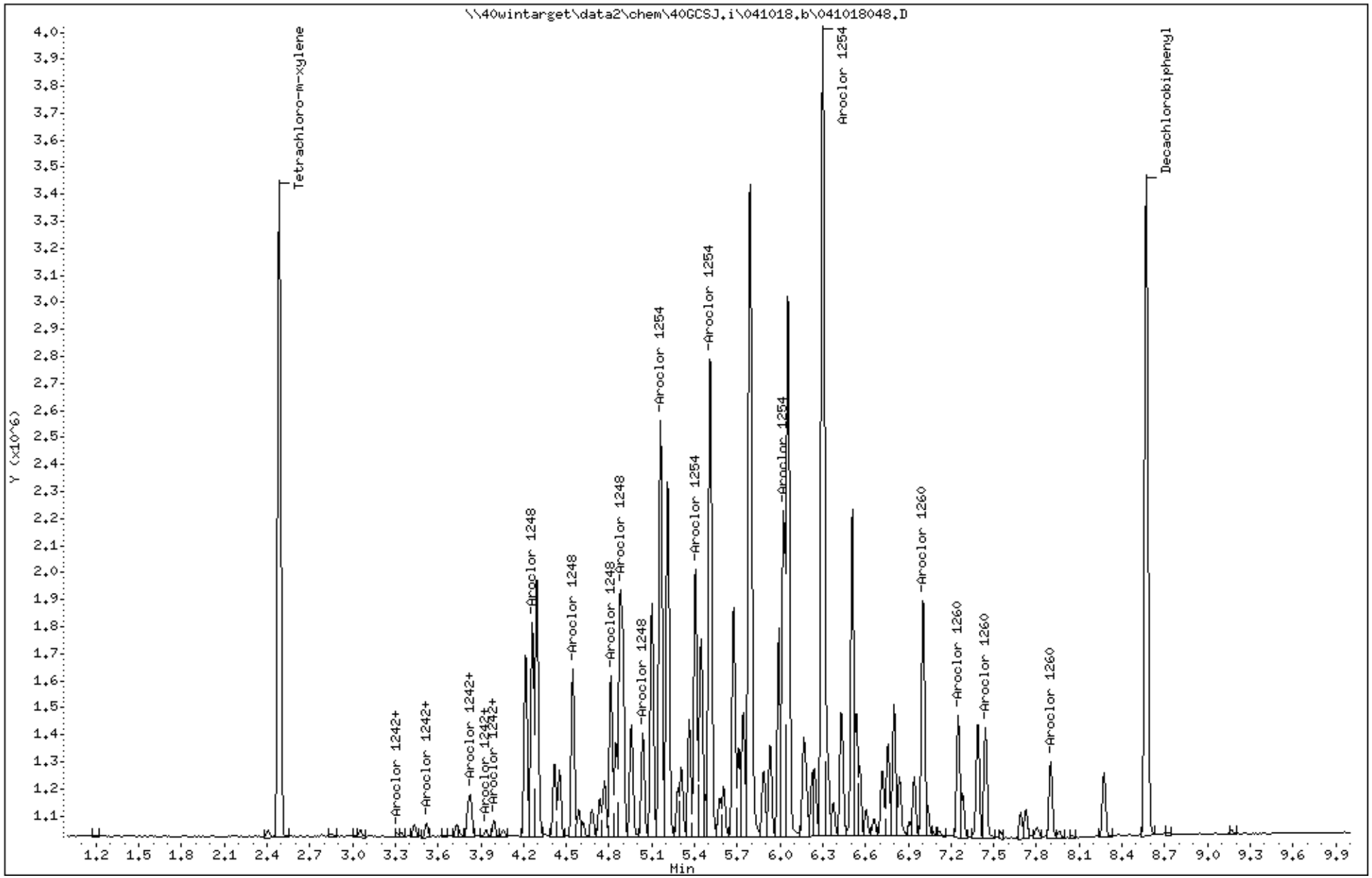
Sample Info: 40157487009 x4,

Volume Injected (uL): 1.0

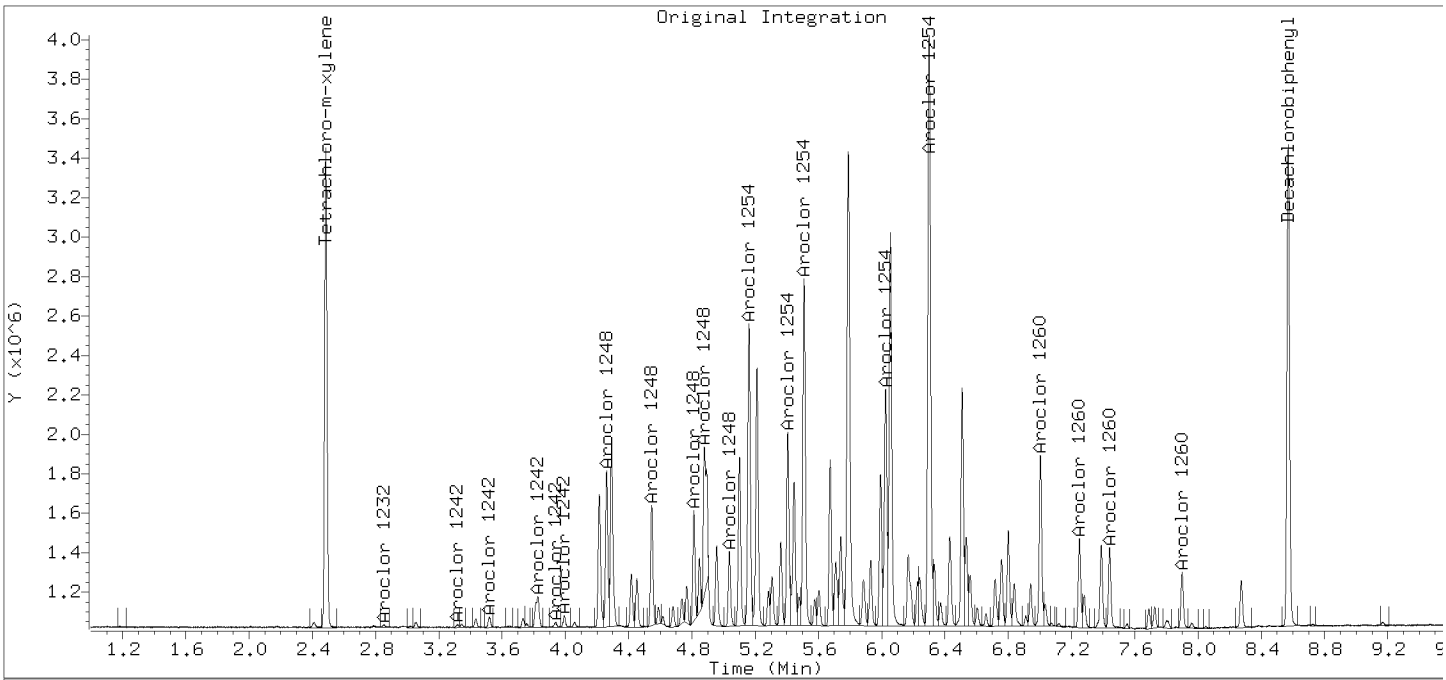
Operator: BLM

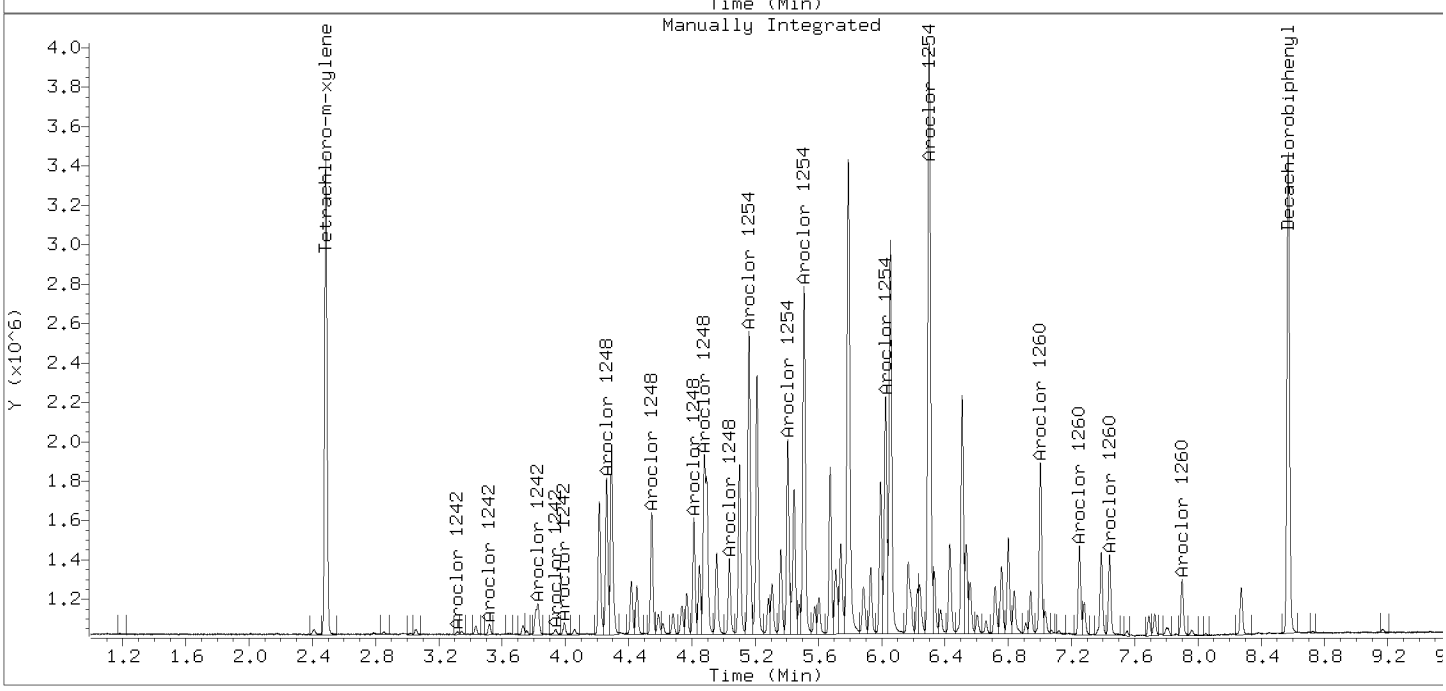
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018048.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 00:56 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487009





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	18758	0	
Aroclor 1232	18758	0	
Aroclor 1232	18758	0	
Aroclor 1232	18758	0	

Aroclor 1232	18758	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	822099	832111	BA
Aroclor 1248	822099	832111	BA
Aroclor 1248	822099	832111	BA
Aroclor 1248	822099	832111	BA
Aroclor 1248	822099	832111	BA
Aroclor 1254	1747575	1777991	BA
Aroclor 1254	1747575	1777991	BA
Aroclor 1254	1747575	1777991	BA
Aroclor 1254	1747575	1777991	BA
Aroclor 1254	1747575	1777991	BA
Aroclor 1260	3655745	0	BA
Aroclor 1260	3655745	0	BA
Aroclor 1260	3655745	0	BA
Aroclor 1260	3655745	0	BA
Aroclor 1260	3655745	0	BA
Tetrachloro-m-xylene	2616264	2616264	
Decachlorobiphenyl	2861047	2861047	

==========

SAMPLE NO.

SW3-170614-01-YP-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: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 04/09/2018 07:13
Lab Sample ID: 40157487010
Date Analyzed: 04/11/2018 01:12
Lab File ID: 041018.B\041018049.D
Initial wt/vol: 10.0176 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	297	
11097-69-1	PCB-1254 (Aroclor 1254)	179	
11096-82-5	PCB-1260 (Aroclor 1260)	46.8	J
1336-36-3	PCB, Total	522	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018049.D
Lab Smp Id: 40157487010 Client Smp ID: SW3-170614-01-YP-01
Inj Date : 11-APR-2018 01:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487010 x2,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 49
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.018	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.175	16548	9914	0.599	0.04		
2.294	11218	11298	1.007	0.02		
2.316	9724	10313	1.061	0.02		
2.411	47647	35039	0.735	0.12		
2.485	5394188	5079454	0.942	14.26	$ 2 Tetrachloro-m-xylene	
2.788	22775	16817	0.738	0.05		
2.853	22863	16590	0.726	0.05		
2.974	16319	17416	1.067	0.04		
2.987	27941	25813	0.924	0.07		
3.019	38959	34641	0.889	0.09		
3.055	43261	33630	0.777	0.11		
3.317	38561	34841	0.904	0.09		
3.345	39777	33896	0.852	0.10		
3.434	72630	64479	0.888	0.18		
3.519	106273	98808	0.930	0.27		
3.646	17996	15828	0.880	0.04		
3.732	213932	151355	0.707	0.54		
3.825	787485	437012	0.555	2.00		
3.937	74051	50968	0.688	0.18		
3.992	121508	107130	0.882	0.31		
4.057	48062	43010	0.895	0.12		
4.214	1165223	1058210	0.908	2.97		
4.261	1254957	1193919	0.951	3.20	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.292	1452253	1270034	0.875	3.70	
4.346	30595	22899	0.748	0.07	
4.416	331942	290557	0.875	0.84	
4.452	307562	276276	0.898	0.78	
4.545	727393	666989	0.917	1.85	6 Aroclor 1248
4.588	129767	119655	0.922	0.33	
4.616	74735	64152	0.858	0.19	
4.681	116135	97248	0.837	0.29	
4.735	138307	114273	0.826	0.35	
4.767	201499	188917	0.938	0.51	
4.813	695014	646096	0.930	1.77	6 Aroclor 1248
4.847	470961	447429	0.950	1.20	
4.878	1570102	930040	0.592	4.00	6 Aroclor 1248
4.957	339625	280745	0.827	0.86	
5.037	437076	379833	0.869	1.11	6 Aroclor 1248
5.100	649449	574624	0.885	1.65	
5.161	1102536	927621	0.841	2.81	7 Aroclor 1254
5.212	932127	828100	0.888	2.37	
5.283	121004	115535	0.955	0.30	
5.307	164957	135998	0.824	0.42	
5.362	318751	288096	0.904	0.81	
5.406	637627	569915	0.894	1.62	7 Aroclor 1254
5.446	597017	500787	0.839	1.52	
5.477	91438	83526	0.913	0.23	
5.509	1168981	1019770	0.872	2.98	7 Aroclor 1254
5.576	88339	76835	0.870	0.22	
5.603	148164	112499	0.759	0.37	
5.675	431870	394079	0.912	1.10	
5.710	180545	137589	0.762	0.46	
5.741	315713	235144	0.745	0.80	
5.790	1652811	1264773	0.765	4.21	
5.885	172972	123071	0.712	0.44	
5.931	167947	135452	0.807	0.42	
5.993	369188	333762	0.904	0.94	
6.024	650136	557397	0.857	1.65	7 Aroclor 1254
6.055	1069664	910568	0.851	2.73	
6.168	237988	143213	0.602	0.60	
6.226	95162	102416	1.076	0.24	
6.240	158263	125241	0.791	0.40	
6.300	1640801	1372029	0.836	4.18	7 Aroclor 1254
6.333	157074	136113	0.867	0.40	
6.372	78418	55434	0.707	0.20	
6.431	217269	165774	0.763	0.55	
6.508	537182	503741	0.938	1.37	
6.535	301296	264974	0.879	0.76	
6.558	121370	104220	0.859	0.30	
6.605	55163	39576	0.717	0.14	
6.661	34454	25689	0.746	0.08	
6.717	115492	85053	0.736	0.29	
6.759	156112	132502	0.849	0.39	
6.799	197172	173775	0.881	0.50	
6.840	112593	77096	0.685	0.28	
6.910	24155	21938	0.908	0.06	
6.943	92289	78406	0.850	0.23	
7.004	364149	333036	0.915	0.92	8 Aroclor 1260
7.034	37160	37054	0.997	0.09	
7.075	15714	10960	0.697	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.128	33360	20608	0.618	0.08	
7.250	206762	180876	0.875	0.52	8 Aroclor 1260
7.281	90000	63846	0.709	0.22	
7.336	23141	16383	0.708	0.05	
7.388	174085	154327	0.887	0.44	
7.442	184091	153628	0.835	0.46	8 Aroclor 1260
7.542	14385	13807	0.960	0.03	
7.583	12575	11113	0.884	0.03	
7.691	43726	42216	0.965	0.11	
7.726	67858	51614	0.761	0.17	
7.772	24591	18115	0.737	0.06	
7.800	37704	23600	0.626	0.09	
7.900	117951	97813	0.829	0.30	8 Aroclor 1260
7.961	23887	12995	0.544	0.06	
8.273	139944	124045	0.886	0.35	
8.378	52360	34473	0.658	0.13	
8.569	5106670	4385083	0.859	13.03	$ 12 Decachlorobiphenyl
8.720	15104	7053	0.467	0.03	
8.940	87198	54037	0.620	0.22	
9.169	23752	17249	0.726	0.06	
9.466	139519	80036	0.574	0.35	
9.957	167036	94611	0.566	0.42	
	39181078	33346433		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018049.D
Lab Smp Id: 40157487010 Client Smp ID: SW3-170614-01-YP-01
Inj Date : 11-APR-2018 01:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487010 x2,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 49
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.018	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.484	2.484	0.000	5394188	0.04375	44			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

---

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1254956	0.53563	530	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	727392	0.17526	170	0.00- 20.00	57.96	BA
4.812	4.812	0.000	695014	0.34236	340	0.00- 20.00	55.38	BA
4.877	4.879	-0.002	1570102	0.31169	310	0.00- 20.00	125.11	BA
5.036	5.038	-0.002	437075	0.12180	120	0.00- 20.00	34.83	BA
			Average of Peak Concentrations =		300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1102536	0.21060	210	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	637627	0.14825	150	0.00- 20.00	57.83	BA
5.509	5.510	-0.001	1168980	0.15052	150	0.00- 20.00	106.03	BA
6.024	6.027	-0.003	650135	0.13351	130	0.00- 20.00	58.97	BA
6.299	6.299	0.000	1640801	0.25216	250	0.00- 20.00	148.82	BA
			Average of Peak Concentrations =		180			
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	364148	0.03636	36	0.00- 20.00	24.42	CO
7.250	7.251	-0.001	206761	0.04326	43	0.00- 20.00	12.60	CO
7.441	7.443	-0.002	184091	0.06315	63	0.00- 20.00	11.22	CO
7.899	7.901	-0.002	117951	0.04470	45	0.00- 20.00	7.19	CO
			Average of Peak Concentrations =		47			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	5106670	0.04661	46			

QC Flag Legend

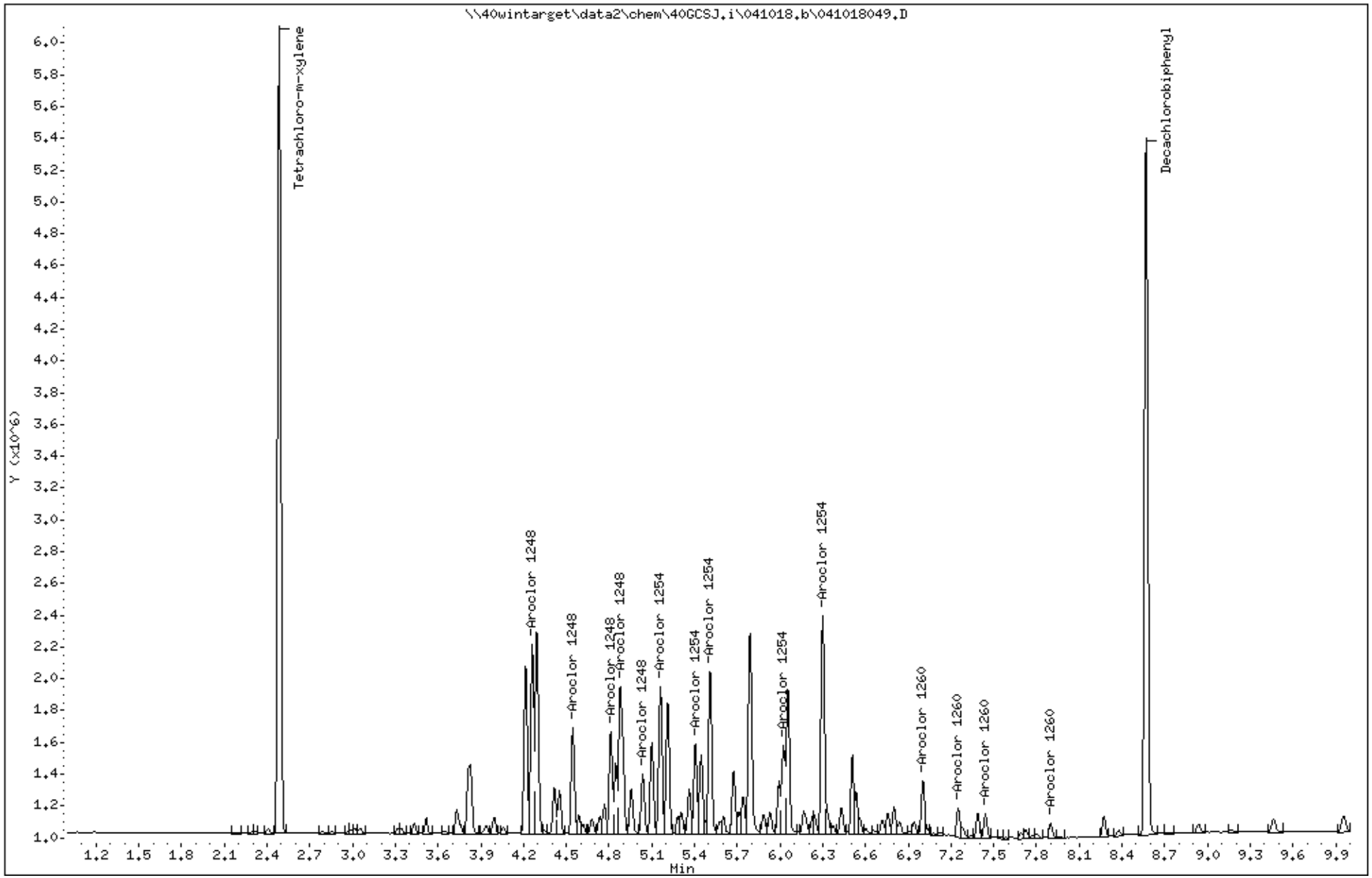
M - Compound response manually integrated.

Review Codes Legend

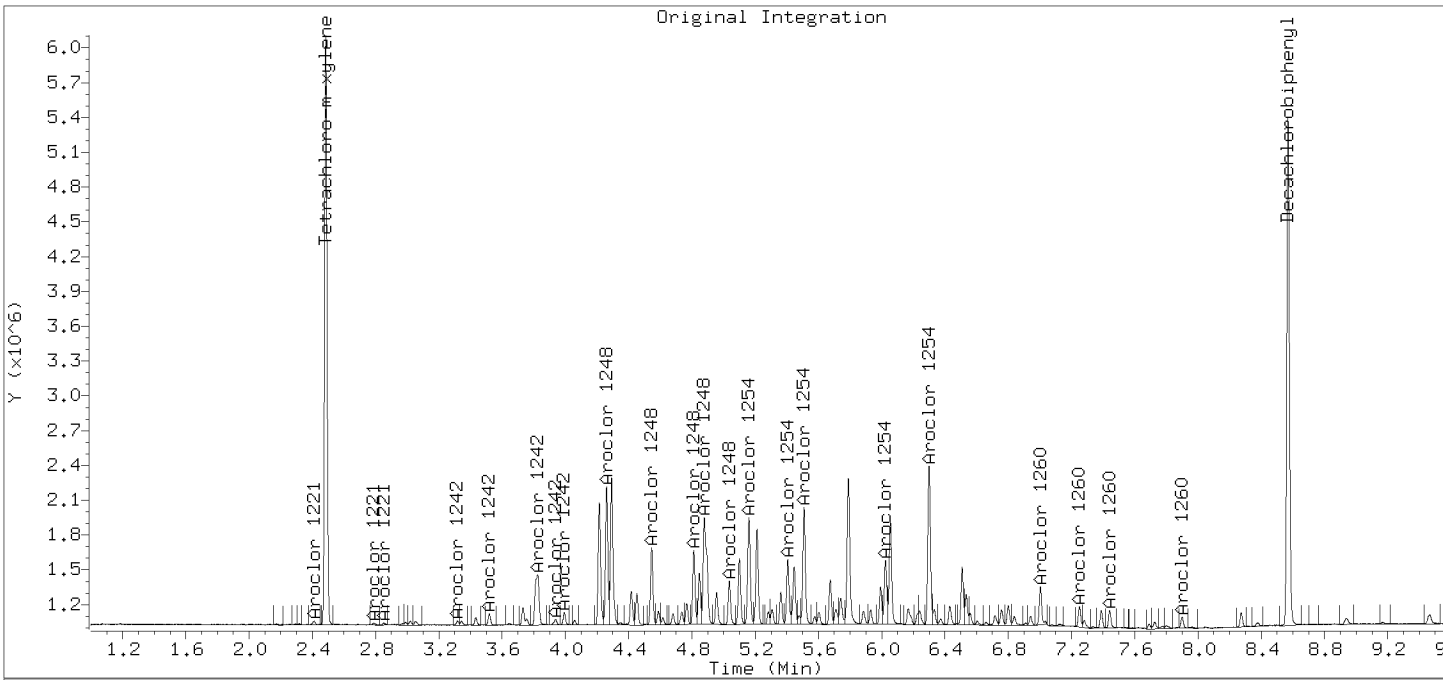
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

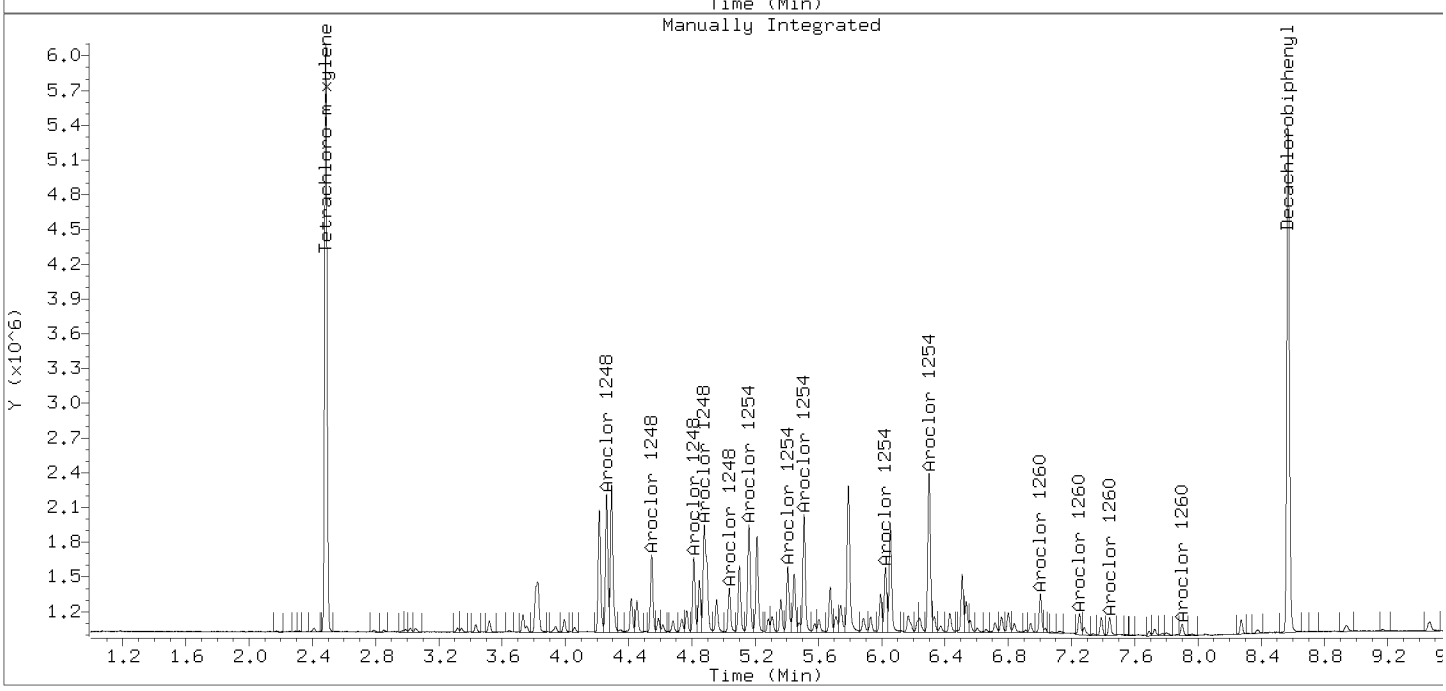
Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018049.D
Date : 11-APR-2018 01:12
Client ID: SW3-170614-01-YP-01
Sample Info: 40157487010 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018049.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 11-APR-2018 01:12 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	38560	0	
Aroclor 1016	38560	0	
Aroclor 1016	38560	0	
Aroclor 1016	38560	0	
Aroclor 1016	38560	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	22862	0	
Aroclor 1232	22862	0	
Aroclor 1232	22862	0	
Aroclor 1232	22862	0	

Aroclor 1232	22862	0	
Aroclor 1242	38560	0	
Aroclor 1242	38560	0	
Aroclor 1242	38560	0	
Aroclor 1242	38560	0	
Aroclor 1242	38560	0	
Aroclor 1248	1247717	1254956	BA
Aroclor 1248	1247717	1254956	BA
Aroclor 1248	1247717	1254956	BA
Aroclor 1248	1247717	1254956	BA
Aroclor 1248	1247717	1254956	BA
Aroclor 1254	1068184	1102536	BA
Aroclor 1254	1068184	1102536	BA
Aroclor 1254	1068184	1102536	BA
Aroclor 1254	1068184	1102536	BA
Aroclor 1254	1068184	1102536	BA
Aroclor 1260	1620885	0	CO
Aroclor 1260	1620885	0	CO
Aroclor 1260	1620885	0	CO
Aroclor 1260	1620885	0	CO
Aroclor 1260	1620885	0	CO
Tetrachloro-m-xylene	5394188	5394188	
Decachlorobiphenyl	5106670	5106670	

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SAMPLE NO.

SW3-170614-01-LMB-10

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 03/30/2018 07:22
Lab Sample ID: 40157487011
Date Analyzed: 04/02/2018 17:03
Lab File ID: 040218.B\040218011.D
Initial wt/vol: 10.0051 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<57.0	U
11104-28-2	PCB-1221 (Aroclor 1221)	<57.0	U
11141-16-5	PCB-1232 (Aroclor 1232)	<57.0	U
53469-21-9	PCB-1242 (Aroclor 1242)	<57.0	U
12672-29-6	PCB-1248 (Aroclor 1248)	869	
11097-69-1	PCB-1254 (Aroclor 1254)	1030	
11096-82-5	PCB-1260 (Aroclor 1260)	371	
1336-36-3	PCB, Total	2270	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218011.D
Lab Smp Id: 40157487011 Client Smp ID: SW3-170614-01-LMB-1
Inj Date : 02-APR-2018 17:03
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487011 x5,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.005	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.411	13580	10884	0.802	0.02		
2.485	2152561	1983012	0.921	3.83	$ 2 Tetrachloro-m-xylene	
3.054	14914	14888	0.998	0.02		
3.320	14991	14441	0.963	0.02	5 Aroclor 1016	BA
3.343	26770	23083	0.862	0.04		
3.435	46923	39414	0.840	0.08		
3.518	50769	44422	0.875	0.09	5 Aroclor 1016	BA
3.642	14753	11731	0.795	0.02		
3.733	95411	72043	0.755	0.16		
3.826	304335	180443	0.593	0.54	5 Aroclor 1016	BA
3.939	83221	67149	0.807	0.14	5 Aroclor 1016	BA
3.994	71400	63960	0.896	0.12	5 Aroclor 1016	BA
4.057	39849	31382	0.788	0.07		
4.215	1016555	910689	0.896	1.81		
4.261	1141241	1091435	0.956	2.03	6 Aroclor 1248	BA
4.293	1756814	1468420	0.836	3.12		
4.417	264346	250478	0.948	0.47		
4.452	303708	269627	0.888	0.54		
4.546	877625	800939	0.913	1.56	6 Aroclor 1248	BA
4.589	182812	168253	0.920	0.32		
4.617	47703	41225	0.864	0.08		
4.681	184955	169041	0.914	0.32		
4.736	252054	207484	0.823	0.44		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	334882	313460	0.936	0.59	
4.813	889817	838466	0.942	1.58	6 Aroclor 1248
4.848	521390	499536	0.958	0.92	
4.879	2150107	1221002	0.568	3.82	6 Aroclor 1248
4.957	574068	497836	0.867	1.02	
5.038	626852	570949	0.911	1.11	6 Aroclor 1248
5.102	1194670	1074291	0.899	2.12	
5.161	2342263	1953969	0.834	4.17	7 Aroclor 1254
5.212	2062775	1790091	0.868	3.67	
5.284	246370	244096	0.991	0.43	
5.308	366002	297172	0.812	0.65	
5.363	662345	613727	0.927	1.17	
5.407	1446912	1233295	0.852	2.57	7 Aroclor 1254
5.446	1193337	1005647	0.843	2.12	
5.510	2406906	1966559	0.817	4.28	7 Aroclor 1254
5.577	199209	181253	0.910	0.35	
5.604	251032	220909	0.880	0.44	
5.675	860091	812356	0.944	1.53	
5.714	286004	209958	0.734	0.50	
5.742	733216	569802	0.777	1.30	
5.790	3830312	2928653	0.765	6.82	
5.886	317458	240595	0.758	0.56	
5.931	403441	321504	0.797	0.71	
5.993	1006574	920950	0.915	1.79	
6.025	1468393	1264077	0.861	2.61	7 Aroclor 1254
6.055	2887768	2426668	0.840	5.14	
6.168	526730	443963	0.843	0.93	
6.227	271845	294588	1.084	0.48	
6.241	335312	283886	0.847	0.59	
6.299	4364242	3469711	0.795	8.19	7 Aroclor 1254
6.332	454151	402468	0.886	0.80	
6.373	192786	157182	0.815	0.34	
6.432	396138	324510	0.819	0.70	
6.509	1431979	1273091	0.889	2.54	
6.536	823156	728779	0.885	1.46	
6.560	376609	345052	0.916	0.67	
6.604	158077	128782	0.815	0.28	
6.662	73491	65294	0.888	0.13	
6.718	277084	234008	0.845	0.49	
6.759	281126	250002	0.889	0.50	
6.802	584301	512677	0.877	1.04	
6.840	208604	154730	0.742	0.37	
6.911	49918	46914	0.940	0.08	
6.944	225770	202648	0.898	0.40	
7.004	1332382	1187314	0.891	2.37	8 Aroclor 1260
7.035	142810	130767	0.916	0.25	
7.074	37268	29391	0.789	0.06	
7.121	13879	11531	0.831	0.02	
7.251	653125	580033	0.888	1.16	8 Aroclor 1260
7.281	212446	180918	0.852	0.37	
7.389	501142	441000	0.880	0.89	
7.442	525801	465376	0.885	0.93	8 Aroclor 1260
7.551	33543	29254	0.872	0.05	
7.691	156915	139985	0.892	0.27	
7.726	73855	62916	0.852	0.13	
7.802	62118	42332	0.681	0.11	
7.900	380955	330323	0.867	0.67	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.963	51708	32133	0.621	0.09	
8.048	29899	21303	0.712	0.05	
8.273	273657	242571	0.886	0.48	
8.571	2368329	2023515	0.854	4.21	$ 12 Decachlorobiphenyl
8.727	12618	8262	0.655	0.02	
9.055	10012	5708	0.570	0.01	
9.172	37742	28334	0.751	0.06	
	56161007	47462515		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218011.D
Lab Smp Id: 40157487011 Client Smp ID: SW3-170614-01-LMB-1
Inj Date : 02-APR-2018 17:03
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487011 x5,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 11
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.005	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

2.485	2.484	0.001	2152561	0.01746	44			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

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	1141241	0.48709	1200	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	877624	0.21146	530	0.00- 20.00	76.90	BA
4.813	4.812	0.001	889817	0.43832	1100	0.00- 20.00	77.97	BA
4.879	4.879	0.000	2150106	0.42682	1100	0.00- 20.00	188.40	BA
5.037	5.038	-0.001	626851	0.17468	440	0.00- 20.00	54.93	BA
Average of Peak Concentrations =					870			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2342262	0.44740	1100	0.00- 20.00	100.00(M)	BA
5.407	5.408	-0.001	1446911	0.33641	840	0.00- 20.00	61.77	BA
5.510	5.510	0.000	2406905	0.30993	770	0.00- 20.00	102.76	BA
6.025	6.027	-0.002	1468392	0.30154	750	0.00- 20.00	62.69	BA
6.299	6.299	0.000	4364242	0.67069	1700	0.00- 20.00	186.33	BA
Average of Peak Concentrations =					1000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	1332382	0.13305	330	0.00- 20.00	30.53	BA
7.251	7.251	0.000	653124	0.13664	340	0.00- 20.00	14.97	BA
7.442	7.443	-0.001	525801	0.18037	450	0.00- 20.00	12.05	BA
7.900	7.901	-0.001	380955	0.14437	360	0.00- 20.00	8.73	BA
Average of Peak Concentrations =					370			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2368328	0.02162	54			

QC Flag Legend

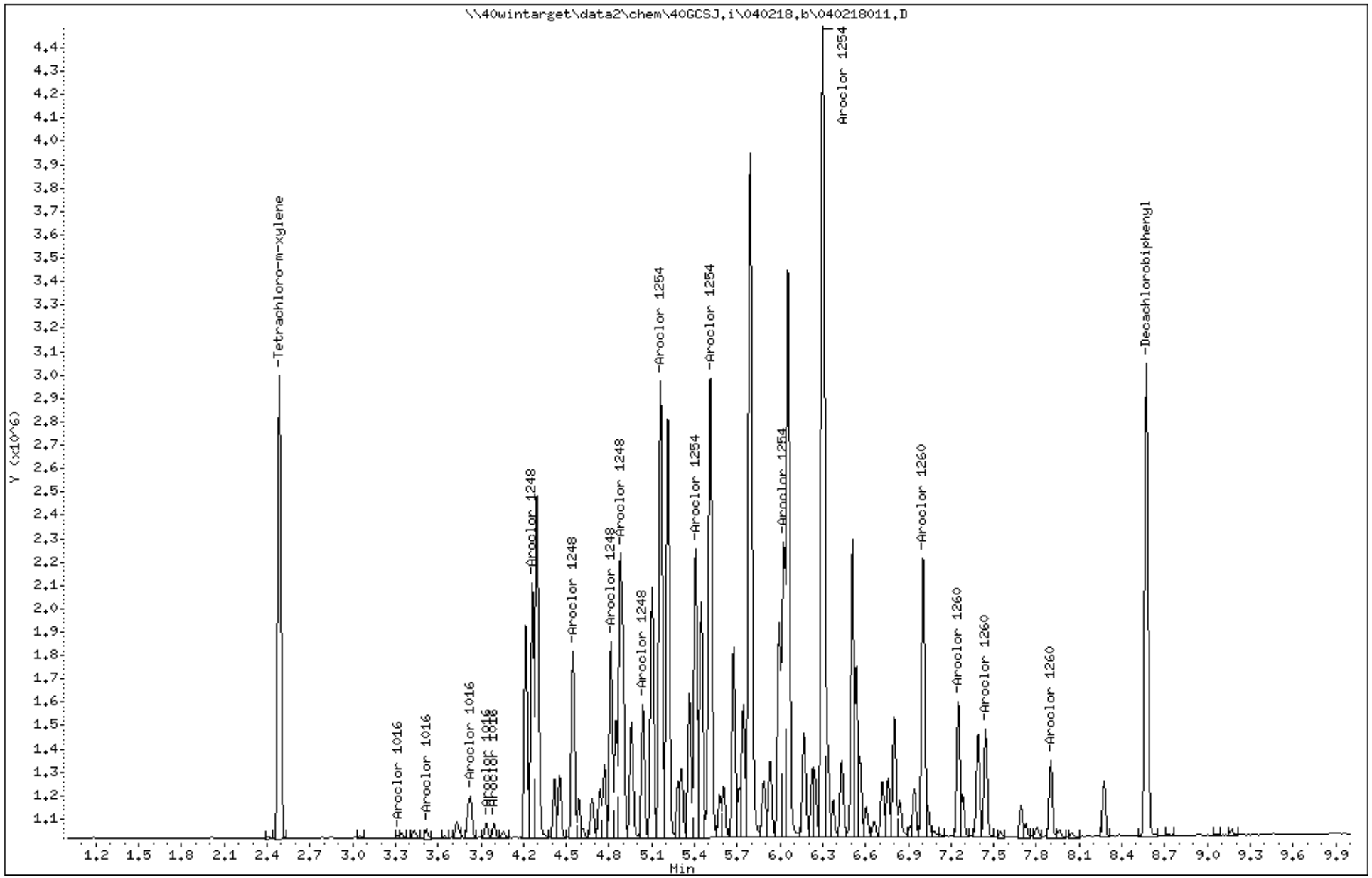
M - Compound response manually integrated.

Review Codes Legend

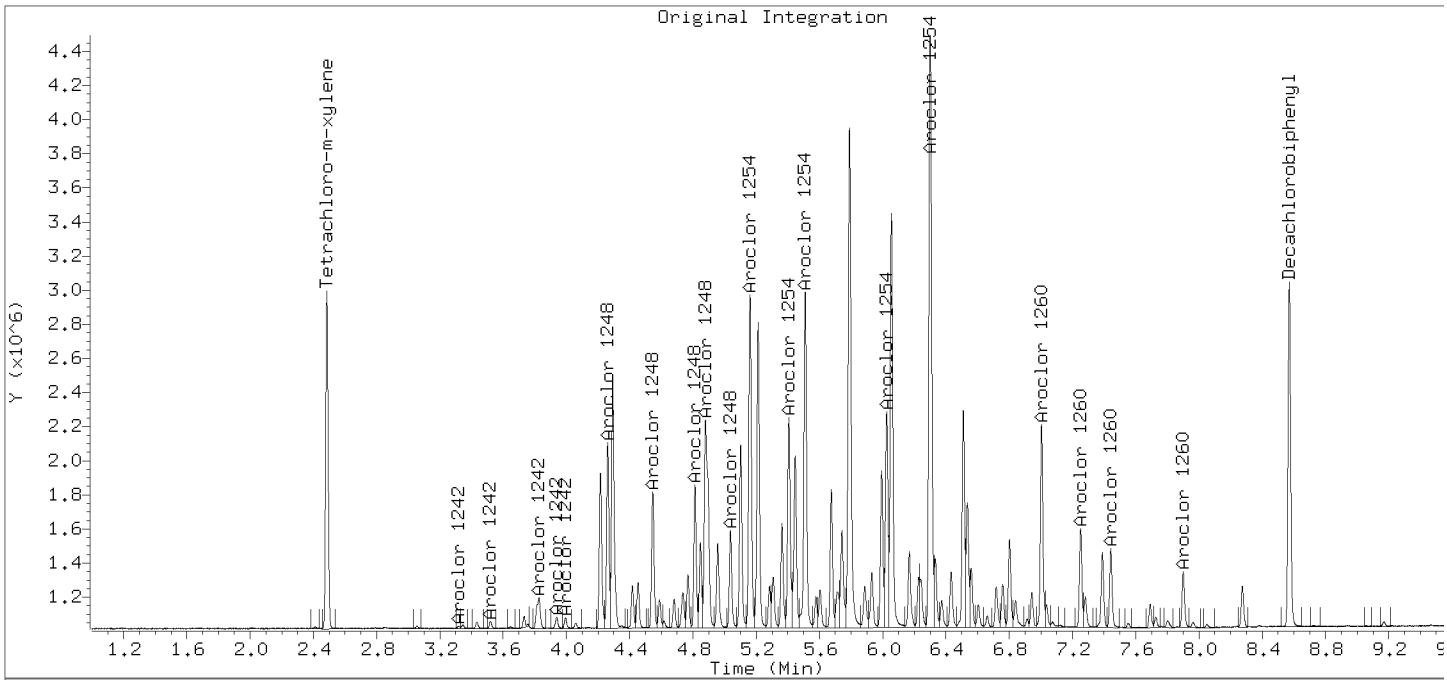
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

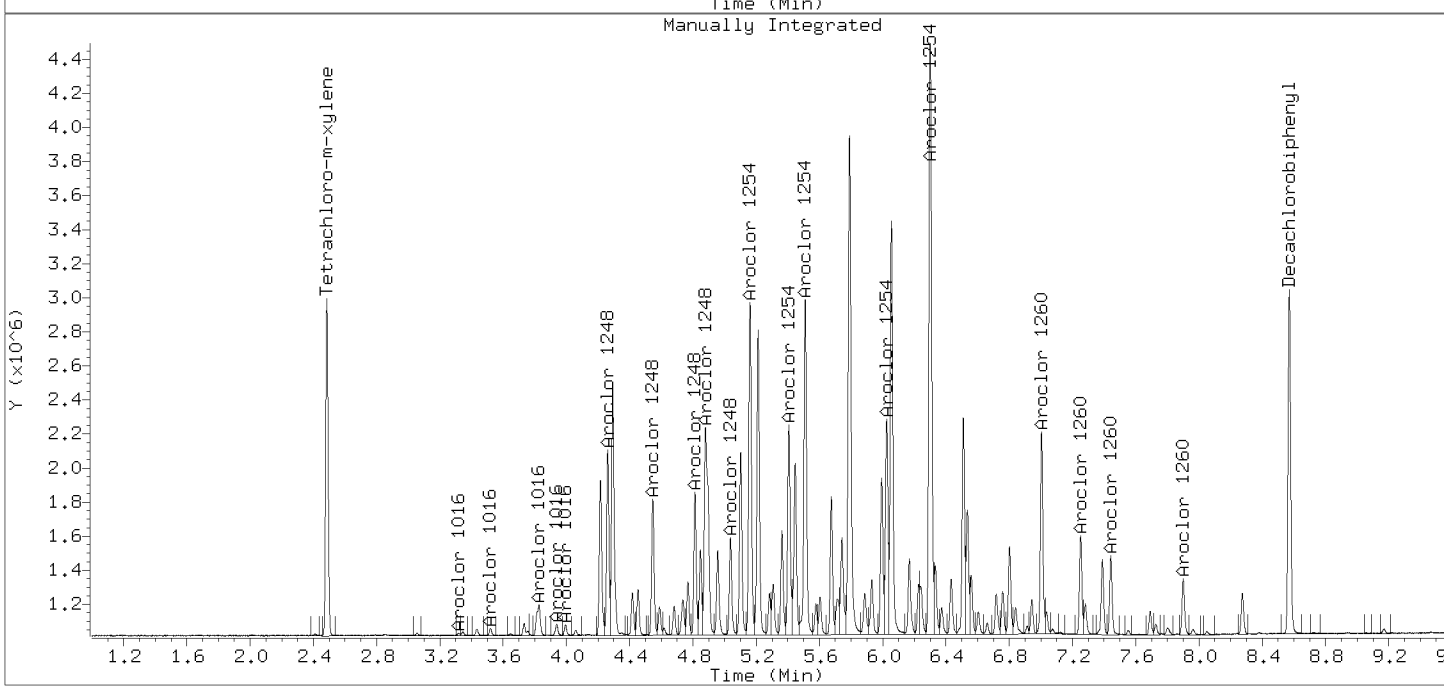
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218011.D
Date : 02-APR-2018 17:03
Client ID: SW3-170614-01-LMB-1
Sample Info: 40157487011 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 17:03 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487011





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	14991	0	
Aroclor 1242	14991	0	
Aroclor 1242	14991	0	
Aroclor 1242	14991	0	
Aroclor 1242	14991	0	
Aroclor 1248	1137097	1141241	BA
Aroclor 1248	1137097	1141241	BA
Aroclor 1248	1137097	1141241	BA
Aroclor 1248	1137097	1141241	BA
Aroclor 1248	1137097	1141241	BA
Aroclor 1254	2341656	2342262	BA
Aroclor 1254	2341656	2342262	BA
Aroclor 1254	2341656	2342262	BA
Aroclor 1254	2341656	2342262	BA
Aroclor 1254	2341656	2342262	BA
Aroclor 1260	4364364	0	BA
Aroclor 1260	4364364	0	BA
Aroclor 1260	4364364	0	BA
Aroclor 1260	4364364	0	BA
Aroclor 1260	4364364	0	BA
Tetrachloro-m-xylene	2152561	2152561	
Decachlorobiphenyl	2368328	2368328	

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SAMPLE NO.

SW3-170614-01-LMB-09

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 03/30/2018 07:22
Lab Sample ID: 40157487012
Date Analyzed: 04/02/2018 17:19
Lab File ID: 040218.B\040218012.D
Initial wt/vol: 9.9785 g Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	123	
11097-69-1	PCB-1254 (Aroclor 1254)	109	
11096-82-5	PCB-1260 (Aroclor 1260)	40.4	J
1336-36-3	PCB, Total	272	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218012.D
Lab Smp Id: 40157487012 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 17:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487012,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.182	9512	8737	0.919	0.01			
1.539	12085	10181	0.842	0.02			
2.130	18885	14802	0.784	0.03			
2.170	11323	12923	1.141	0.02			
2.199	15426	12380	0.803	0.03			
2.293	19965	19974	1.000	0.03			
2.317	28030	26299	0.938	0.05			
2.405	18677	13932	0.746	0.03		1 Aroclor 1221	
2.484	10513220	10033378	0.954	21.07	$	2 Tetrachloro-m-xylene	
2.786	22314	18145	0.813	0.04		1 Aroclor 1221	
2.853	31196	20902	0.670	0.06		1 Aroclor 1221	
2.917	11493	10524	0.916	0.02			
2.974	19827	12915	0.651	0.03			
3.024	10977	10204	0.930	0.02			
3.051	13591	12371	0.910	0.02			
3.318	24052	23080	0.960	0.04		5 Aroclor 1016	BA
3.344	27771	24595	0.886	0.05			
3.434	36538	32644	0.893	0.07			
3.517	38564	30784	0.798	0.07		5 Aroclor 1016	BA
3.732	73126	71131	0.973	0.14			
3.754	28713	30607	1.066	0.05			
3.827	378186	231646	0.613	0.73		5 Aroclor 1016	BA
3.938	60352	39969	0.662	0.11		5 Aroclor 1016	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.994	72929	64019	0.878	0.14	5 Aroclor 1016
4.058	31454	27124	0.862	0.06	
4.214	732575	666812	0.910	1.42	
4.261	824254	778368	0.944	1.60	6 Aroclor 1248
4.292	1032087	876995	0.850	2.01	
4.417	240816	229546	0.953	0.46	
4.452	233808	208067	0.890	0.45	
4.545	589461	542282	0.920	1.15	6 Aroclor 1248
4.590	110298	98416	0.892	0.21	
4.618	57687	50521	0.876	0.11	
4.682	100924	87514	0.867	0.19	
4.736	132765	107087	0.807	0.25	
4.768	209748	195632	0.933	0.40	
4.812	705008	647449	0.918	1.37	6 Aroclor 1248
4.847	374541	360210	0.962	0.73	
4.880	1432154	875729	0.611	2.79	6 Aroclor 1248
4.956	334897	275961	0.824	0.65	
5.037	377604	330329	0.875	0.73	6 Aroclor 1248
5.102	663859	589656	0.888	1.29	
5.161	1328811	1160578	0.873	2.59	7 Aroclor 1254
5.212	1186429	1054526	0.889	2.31	
5.284	125787	124686	0.991	0.24	
5.308	187238	155230	0.829	0.36	
5.363	371804	325457	0.875	0.72	
5.406	710878	660027	0.928	1.38	7 Aroclor 1254
5.448	741559	617639	0.833	1.44	
5.479	58259	69450	1.192	0.11	
5.510	1326750	1149709	0.867	2.58	7 Aroclor 1254
5.577	109656	96648	0.881	0.21	
5.604	145727	122962	0.844	0.28	
5.674	457483	417509	0.913	0.89	
5.711	189388	148189	0.782	0.36	
5.742	389977	299423	0.768	0.76	
5.791	2164335	1684991	0.779	4.22	
5.884	181224	132868	0.733	0.35	
5.932	199085	163719	0.822	0.38	
5.994	498818	449003	0.900	0.97	
6.025	742205	657069	0.885	1.44	7 Aroclor 1254
6.056	1641204	1396175	0.851	3.20	
6.169	292128	213198	0.730	0.56	
6.227	132453	141500	1.068	0.25	
6.243	190670	155932	0.818	0.37	
6.300	2217329	1822953	0.822	4.32	7 Aroclor 1254
6.333	209680	187785	0.896	0.40	
6.372	93841	70972	0.756	0.18	
6.432	235148	198659	0.845	0.45	
6.510	726870	681577	0.938	1.41	
6.535	397608	356918	0.898	0.77	
6.559	187402	168230	0.898	0.36	
6.605	70522	61804	0.876	0.13	
6.659	38508	32703	0.849	0.07	
6.717	152853	131309	0.859	0.29	
6.758	187832	165628	0.882	0.36	
6.802	276251	245412	0.888	0.53	
6.838	128503	97340	0.757	0.25	
6.913	34160	27302	0.799	0.06	
6.941	126269	114127	0.904	0.24	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.005	649142	599153	0.923	1.26	8 Aroclor 1260
7.035	64252	59352	0.924	0.12	
7.123	29376	19530	0.665	0.05	
7.252	316863	276481	0.873	0.61	8 Aroclor 1260
7.281	116163	92238	0.794	0.22	
7.331	12007	10921	0.910	0.02	
7.389	264222	253764	0.960	0.51	
7.442	309710	272943	0.881	0.60	8 Aroclor 1260
7.550	17364	15050	0.867	0.03	
7.693	65030	62821	0.966	0.12	
7.726	90405	80593	0.891	0.17	
7.800	65700	42759	0.651	0.12	
7.858	3175	5518	1.738	0.00	
7.900	224585	202079	0.900	0.43	8 Aroclor 1260
7.959	27515	20398	0.741	0.05	
8.052	18334	16636	0.907	0.03	
8.275	274680	249778	0.909	0.53	
8.380	23845	15567	0.653	0.04	
8.571	10490962	9060399	0.864	20.46	$ 12 Decachlorobiphenyl
8.728	12035	7945	0.660	0.02	
9.165	18545	17433	0.940	0.03	
9.959	23770	14857	0.625	0.04	
	51253013	44889262		100.000	

Total unknown % area = 34

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218012.D
Lab Smp Id: 40157487012 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 17:19
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487012,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

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

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

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

2.484	2.484	0.000	10513220	0.08527	43			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	824253	0.35180	180	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	589461	0.14203	71	0.00- 20.00	71.51	BA
4.811	4.812	-0.001	705007	0.34728	170	0.00- 20.00	85.53	BA
4.879	4.879	0.000	1432153	0.28430	140	0.00- 20.00	173.75	BA
5.036	5.038	-0.002	377603	0.10522	53	0.00- 20.00	45.81	BA
Average of Peak Concentrations =					120			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1328811	0.25382	130	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	710878	0.16528	83	0.00- 20.00	53.50	BA
5.509	5.510	-0.001	1326750	0.17084	86	0.00- 20.00	99.84	BA
6.024	6.027	-0.003	742205	0.15241	76	0.00- 20.00	55.85	BA
6.300	6.299	0.001	2217329	0.34076	170	0.00- 20.00	166.87	BA
Average of Peak Concentrations =					110			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	649141	0.06482	32	0.00- 20.00	29.28	BA
7.252	7.251	0.001	316862	0.06629	33	0.00- 20.00	14.29	BA
7.441	7.443	-0.002	309709	0.10624	53	0.00- 20.00	13.97	BA
7.899	7.901	-0.002	224585	0.08511	43	0.00- 20.00	10.13	BA
Average of Peak Concentrations =					40			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	10490961	0.09576	48			

QC Flag Legend

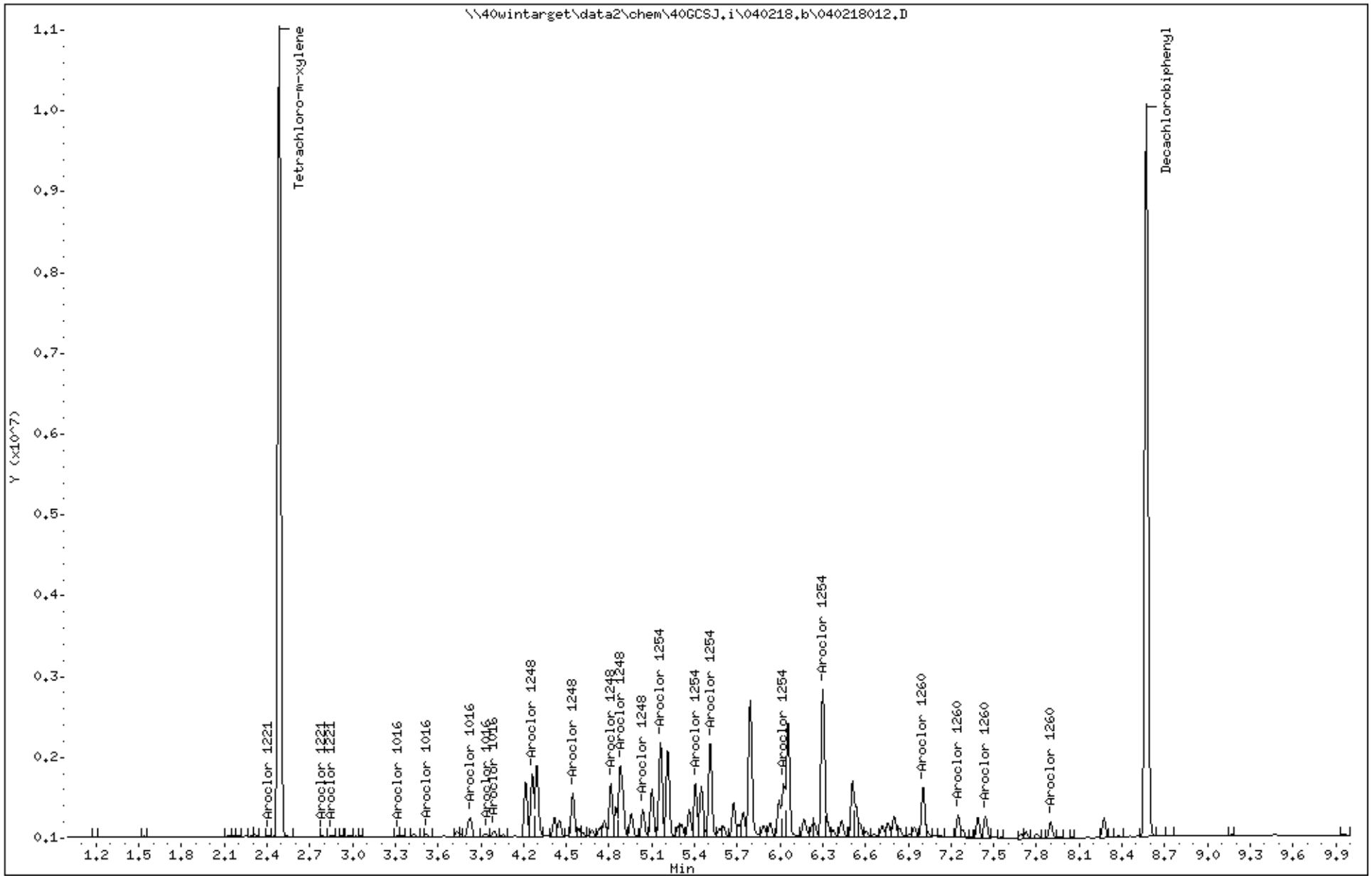
M - Compound response manually integrated.

Review Codes Legend

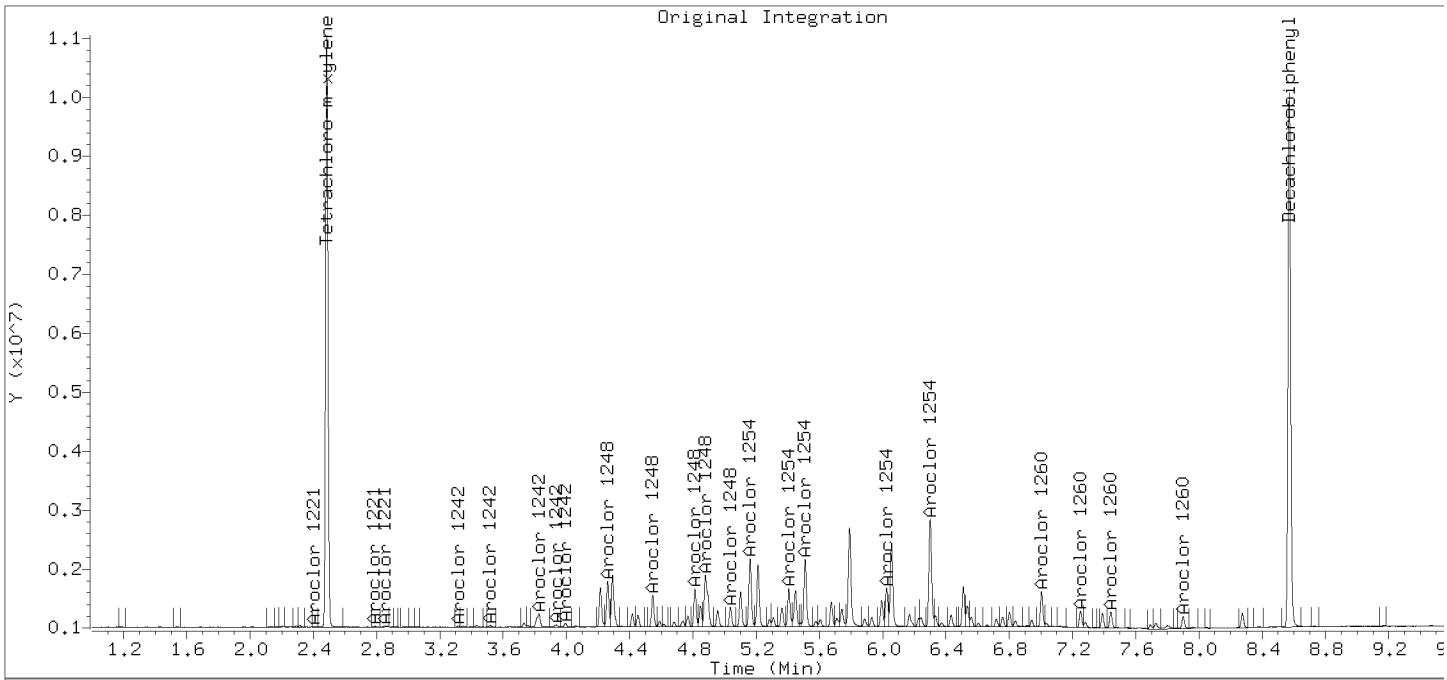
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

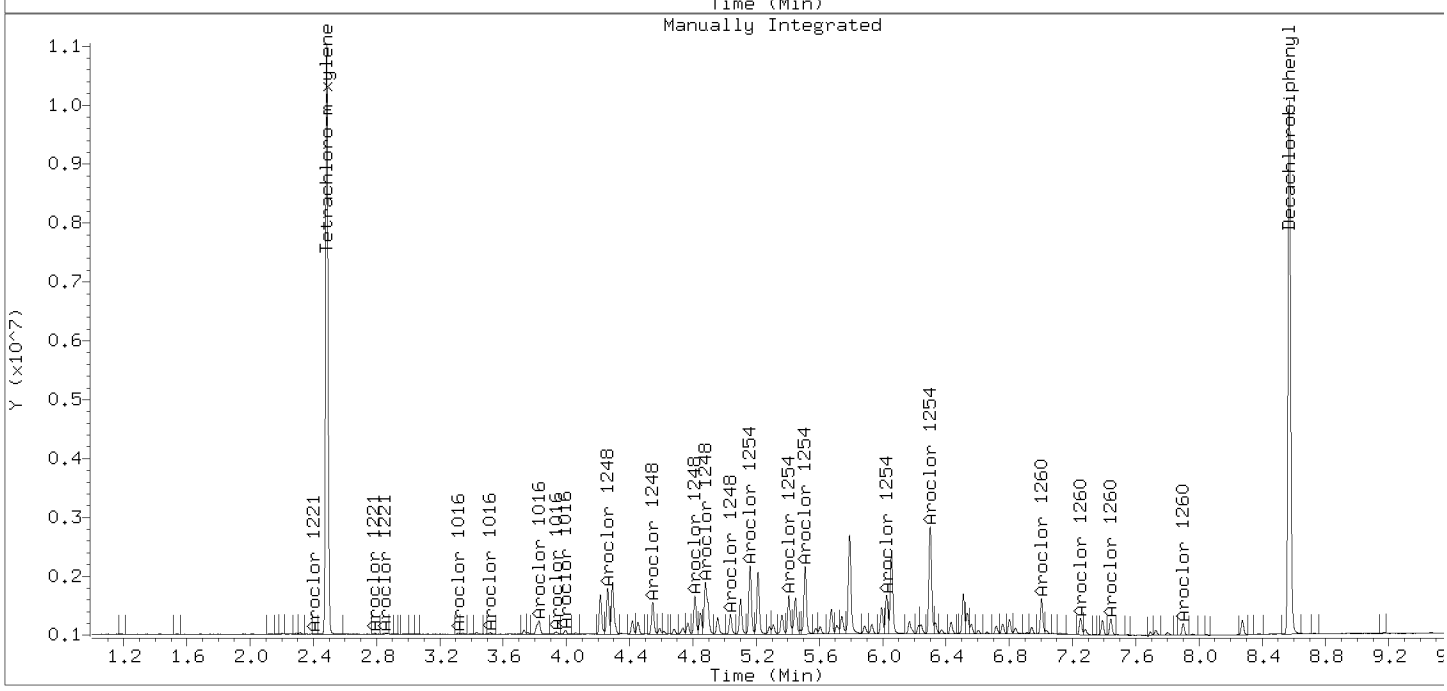
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218012.D
Date : 02-APR-2018 17:19
Client ID: SW3-170614-01-LMB-0
Sample Info: 40157487012,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218012.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 17:19 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487012





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	31196	0	
Aroclor 1232	31196	0	
Aroclor 1232	31196	0	
Aroclor 1232	31196	0	

Aroclor 1232	31196	0	
Aroclor 1242	24051	0	
Aroclor 1242	24051	0	
Aroclor 1242	24051	0	
Aroclor 1242	24051	0	
Aroclor 1242	24051	0	
Aroclor 1248	814321	824253	BA
Aroclor 1248	814321	824253	BA
Aroclor 1248	814321	824253	BA
Aroclor 1248	814321	824253	BA
Aroclor 1248	814321	824253	BA
Aroclor 1254	1316667	1328811	BA
Aroclor 1254	1316667	1328811	BA
Aroclor 1254	1316667	1328811	BA
Aroclor 1254	1316667	1328811	BA
Aroclor 1254	1316667	1328811	BA
Aroclor 1260	2211868	0	BA
Aroclor 1260	2211868	0	BA
Aroclor 1260	2211868	0	BA
Aroclor 1260	2211868	0	BA
Aroclor 1260	2211868	0	BA
Tetrachloro-m-xylene	10513220	10513220	
Decachlorobiphenyl	10490961	10490961	

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SAMPLE NO.

SW3-170614-01-LMB-08

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 03/30/2018 07:22
Lab Sample ID: 40157487013
Date Analyzed: 04/02/2018 17:35
Lab File ID: 040218.B\040218013.D
Initial wt/vol: 10.0107 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<56.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<56.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	799	
11097-69-1	PCB-1254 (Aroclor 1254)	722	
11096-82-5	PCB-1260 (Aroclor 1260)	212	J
1336-36-3	PCB, Total	1730	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218013.D
Lab Smp Id: 40157487013 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 17:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487013 x5,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.011	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.485	2081287	1957830	0.941	4.80	$ 2 Tetrachloro-m-xylene	
2.790	10532	9598	0.911	0.02		
3.316	23702	23479	0.991	0.05		
3.344	31375	28609	0.912	0.07		
3.434	48327	46414	0.960	0.11		
3.518	53277	46745	0.877	0.12		
3.643	20768	16620	0.800	0.04		
3.731	141295	106137	0.751	0.32		
3.814	357967	197951	0.553	0.82		
3.938	132388	114044	0.861	0.30		
3.993	89493	78510	0.877	0.20		
4.058	43063	35927	0.834	0.09		
4.215	1244590	1142117	0.918	2.87		
4.261	1398160	1319575	0.944	3.22	6 Aroclor 1248	BA
4.292	1858402	1551041	0.835	4.28		
4.418	203828	190855	0.936	0.47		
4.452	234947	214883	0.915	0.54		
4.546	817325	767073	0.939	1.88	6 Aroclor 1248	BA
4.589	213412	194750	0.913	0.49		
4.617	51230	44789	0.874	0.11		
4.681	202874	184193	0.908	0.46		
4.737	265281	227343	0.857	0.61		
4.768	231801	215225	0.928	0.53		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.813	694916	671216	0.966	1.60	6 Aroclor 1248
4.848	395709	377379	0.954	0.91	
4.880	1798939	906661	0.504	4.15	6 Aroclor 1248
4.957	566882	489675	0.864	1.30	
5.038	381953	338012	0.885	0.88	6 Aroclor 1248
5.102	1049291	955081	0.910	2.42	
5.162	1764046	1483975	0.841	4.07	7 Aroclor 1254
5.213	1507318	1346566	0.893	3.47	
5.284	214795	202681	0.944	0.49	
5.306	229582	192710	0.839	0.52	
5.362	430377	389775	0.906	0.99	
5.406	960382	857193	0.893	2.21	7 Aroclor 1254
5.447	899609	727790	0.809	2.07	
5.510	1781607	1479106	0.830	4.11	7 Aroclor 1254
5.577	183846	172577	0.939	0.42	
5.604	158464	136733	0.863	0.36	
5.675	756155	705937	0.934	1.74	
5.710	200541	160524	0.800	0.46	
5.743	543938	421712	0.775	1.25	
5.791	2682101	1970265	0.735	6.18	
5.886	221998	165936	0.747	0.51	
5.932	296622	251556	0.848	0.68	
5.993	703255	661853	0.941	1.62	
6.024	921935	785801	0.852	2.12	7 Aroclor 1254
6.056	1977592	1664559	0.842	4.56	
6.169	317581	255972	0.806	0.73	
6.226	341436	193138	0.566	0.78	
6.301	3034772	2408497	0.794	7.42	7 Aroclor 1254
6.332	274667	245562	0.894	0.63	
6.375	108328	89369	0.825	0.24	
6.432	295579	252958	0.856	0.68	
6.511	998056	888692	0.890	2.30	
6.535	522463	472378	0.904	1.20	
6.561	217644	209785	0.964	0.50	
6.604	90503	74035	0.818	0.20	
6.662	44721	38113	0.852	0.10	
6.718	169154	145203	0.858	0.39	
6.759	193597	178923	0.924	0.44	
6.802	338583	299305	0.884	0.78	
6.839	136001	97084	0.714	0.31	
6.909	29202	28945	0.991	0.06	
6.943	135772	126419	0.931	0.31	
7.005	717925	654184	0.911	1.65	8 Aroclor 1260
7.037	88418	74927	0.847	0.20	
7.072	16794	14184	0.845	0.03	
7.120	10720	8536	0.796	0.02	
7.253	374851	328265	0.876	0.86	8 Aroclor 1260
7.282	124707	104507	0.838	0.28	
7.389	321335	271544	0.845	0.74	
7.443	324847	285239	0.878	0.74	8 Aroclor 1260
7.552	19861	16153	0.813	0.04	
7.690	83668	75742	0.905	0.19	
7.726	55452	48071	0.867	0.12	
7.804	46340	28945	0.625	0.10	
7.901	207172	177851	0.858	0.47	8 Aroclor 1260
7.958	27741	19304	0.696	0.06	
8.050	25113	17951	0.715	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.273	169859	153048	0.901	0.39	
8.379	14825	12029	0.811	0.03	
8.571	2300868	1931455	0.839	5.30	$ 12 Decachlorobiphenyl
8.940	13821	10297	0.745	0.03	
9.172	18167	16232	0.894	0.04	
9.468	23714	14572	0.614	0.05	
9.960	25371	15721	0.620	0.05	
	43336802	36512116		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218013.D
Lab Smp Id: 40157487013 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 17:35
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487013 x5,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 13
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.011	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	2081287	0.01688	42			
3 Aroclor 1242						CAS #: 53469-21-9		
Operator disabled compound identification.								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1398159	0.59675	1500	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	817324	0.19693	490	0.00- 20.00	58.46	BA
4.812	4.812	0.000	694915	0.34231	850	0.00- 20.00	49.70	BA
4.879	4.879	0.000	1798938	0.35711	890	0.00- 20.00	128.66	BA
5.037	5.038	-0.001	381952	0.10644	260	0.00- 20.00	27.32	BA
			Average of Peak Concentrations =		800			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1764045	0.33696	840	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	960381	0.22329	560	0.00- 20.00	54.44	BA
5.509	5.510	-0.001	1781607	0.22941	570	0.00- 20.00	101.00	BA
6.023	6.027	-0.004	921934	0.18932	470	0.00- 20.00	52.26	BA
6.300	6.299	0.001	3034772	0.46638	1200	0.00- 20.00	172.03	BA
			Average of Peak Concentrations =		720			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	717924	0.07169	180	0.00- 20.00	23.66	BA
7.252	7.251	0.001	374850	0.07842	200	0.00- 20.00	12.35	BA
7.443	7.443	0.000	324846	0.11144	280	0.00- 20.00	10.70	BA
7.901	7.901	0.000	207171	0.07851	200	0.00- 20.00	6.83	BA
			Average of Peak Concentrations =		210			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.571	8.571	0.000	2300868	0.02100	52			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218013.D

Date : 02-APR-2018 17:35

Client ID: SW3-170614-01-LMB-0

Instrument: 40GCSJ.i

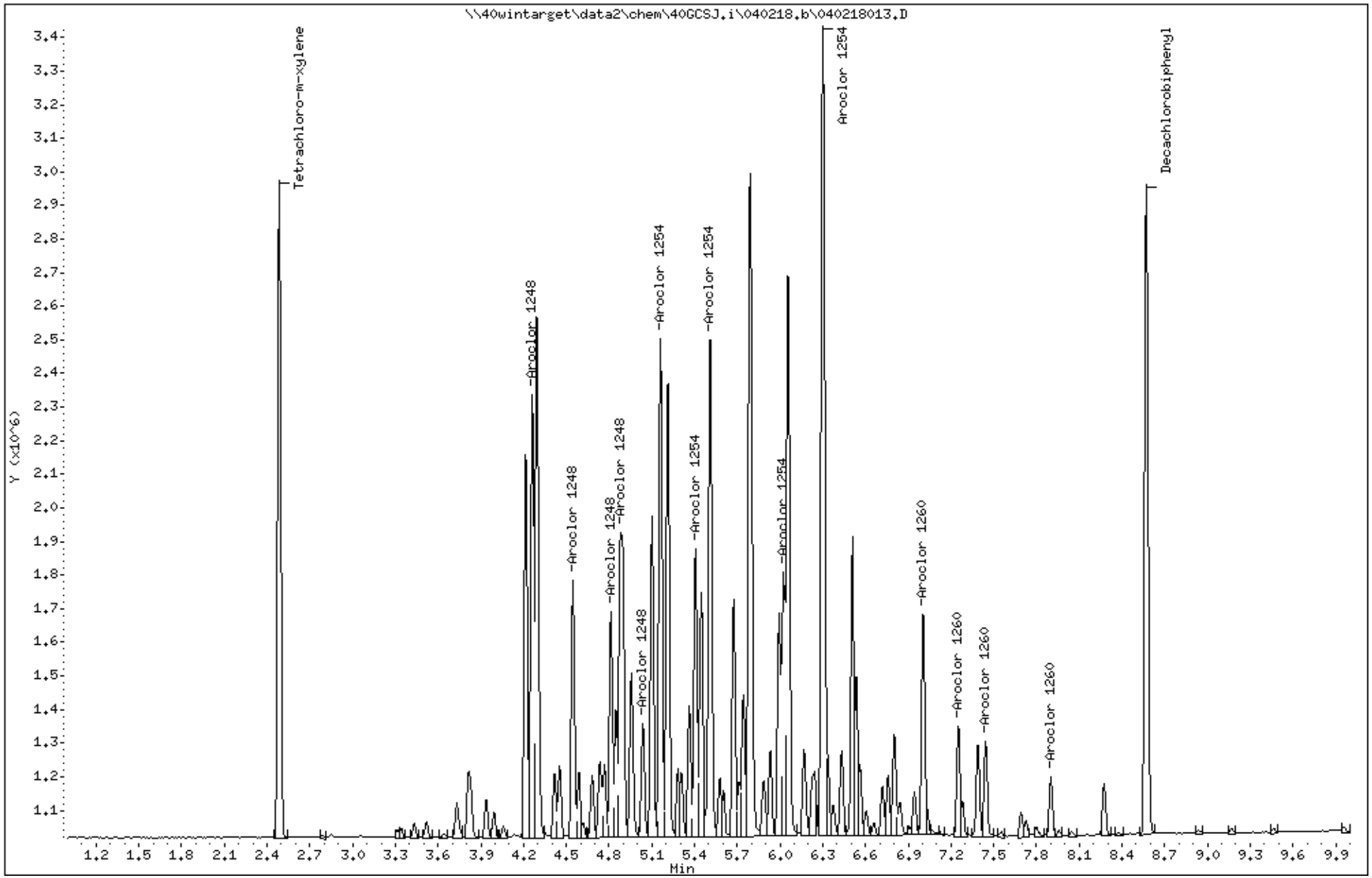
Sample Info: 40157487013 x5,

Volume Injected (uL): 1.0

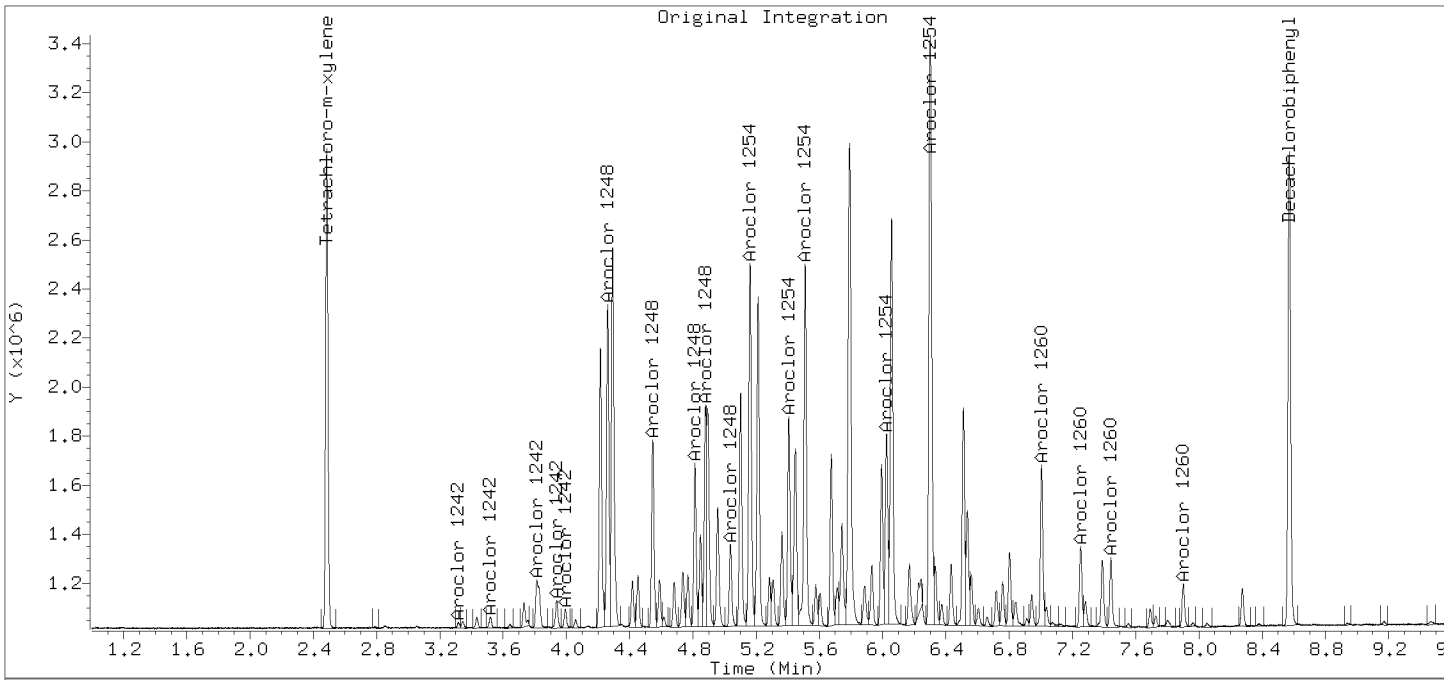
Operator: BLM

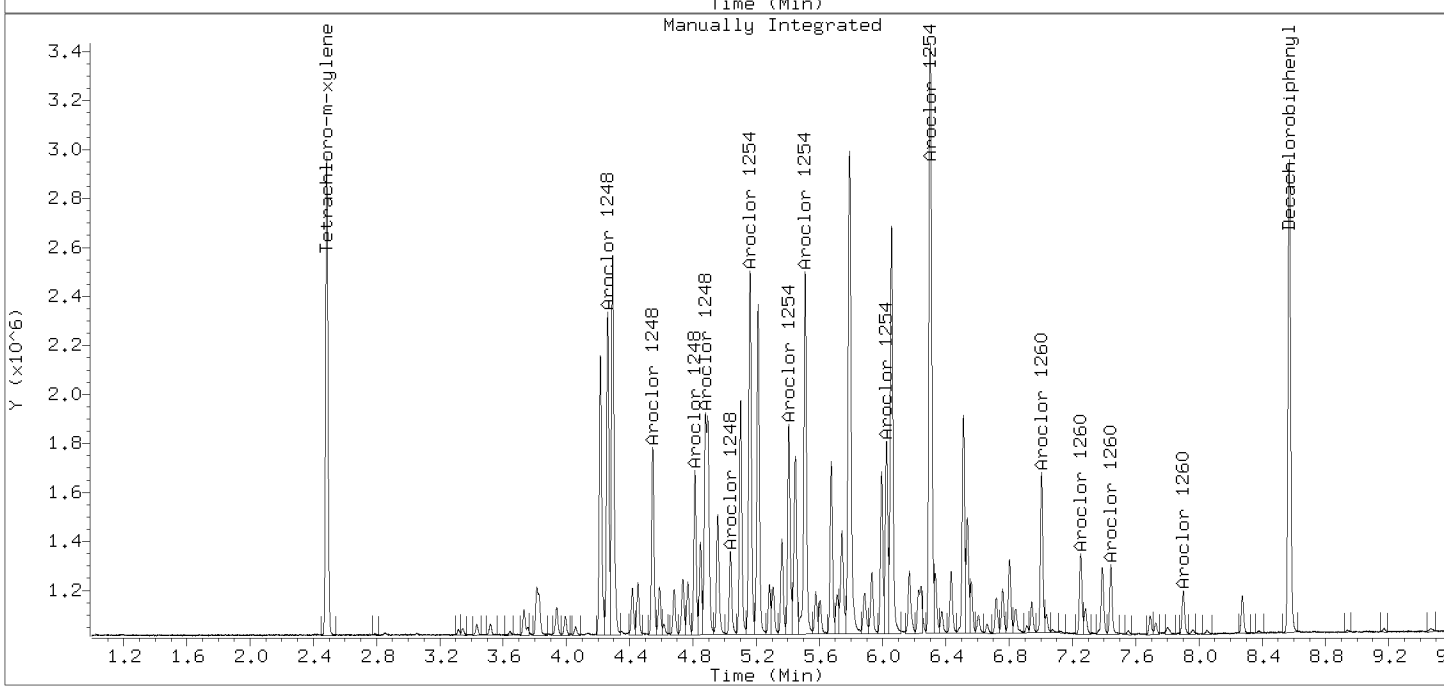
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 17:35 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487013





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	23702	0	
Aroclor 1016	23702	0	
Aroclor 1016	23702	0	
Aroclor 1016	23702	0	
Aroclor 1016	23702	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	23702	0	
Aroclor 1242	23702	0	
Aroclor 1242	23702	0	
Aroclor 1242	23702	0	
Aroclor 1242	23702	0	
Aroclor 1248	1382001	1398159	BA
Aroclor 1248	1382001	1398159	BA
Aroclor 1248	1382001	1398159	BA
Aroclor 1248	1382001	1398159	BA
Aroclor 1248	1382001	1398159	BA
Aroclor 1254	1747690	1764045	BA
Aroclor 1254	1747690	1764045	BA
Aroclor 1254	1747690	1764045	BA
Aroclor 1254	1747690	1764045	BA
Aroclor 1254	1747690	1764045	BA
Aroclor 1260	3010689	0	BA
Aroclor 1260	3010689	0	BA
Aroclor 1260	3010689	0	BA
Aroclor 1260	3010689	0	BA
Aroclor 1260	3010689	0	BA
Tetrachloro-m-xylene	2081287	2081287	
Decachlorobiphenyl	2300868	2300868	

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SAMPLE NO.

SW3-170614-01-LMB-07

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 03/30/2018 07:22
Lab Sample ID: 40157487014
Date Analyzed: 04/02/2018 17:51
Lab File ID: 040218.B\040218014.D
Initial wt/vol: 9.9774 g Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<57.1	U
11104-28-2	PCB-1221 (Aroclor 1221)	<57.1	U
11141-16-5	PCB-1232 (Aroclor 1232)	<57.1	U
53469-21-9	PCB-1242 (Aroclor 1242)	<57.1	U
12672-29-6	PCB-1248 (Aroclor 1248)	904	
11097-69-1	PCB-1254 (Aroclor 1254)	803	
11096-82-5	PCB-1260 (Aroclor 1260)	303	
1336-36-3	PCB, Total	2010	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218014.D
Lab Smp Id: 40157487014 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 17:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487014 x5,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.485	2139095	2024758	0.947	4.36	$ 2 Tetrachloro-m-xylene	
2.849	16630	12277	0.738	0.03		
2.977	10774	8090	0.751	0.02		
3.054	22948	20014	0.872	0.04		
3.318	38459	40576	1.055	0.07		
3.344	61819	54197	0.877	0.12		
3.434	99295	88982	0.896	0.20		
3.519	102419	89237	0.871	0.20		
3.643	20785	19735	0.949	0.04		
3.731	189817	137776	0.726	0.38		
3.814	276100	309906	1.122	0.56		
3.827	340088	322862	0.949	0.69		
3.939	144902	111294	0.768	0.29		
3.994	128093	113685	0.888	0.26		
4.058	58017	52528	0.905	0.11		
4.215	1319901	1195114	0.905	2.69		
4.261	1391909	1304988	0.938	2.84	6 Aroclor 1248	BA
4.292	1653603	1392218	0.842	3.37		
4.348	22540	19534	0.867	0.04		
4.417	355194	332217	0.935	0.72		
4.452	371145	328141	0.884	0.75		
4.546	985758	927211	0.941	2.01	6 Aroclor 1248	BA
4.589	162151	150790	0.930	0.33		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.618	76025	62380	0.821	0.15	
4.680	171385	157963	0.922	0.34	
4.736	204411	164127	0.803	0.41	
4.768	299778	278907	0.930	0.61	
4.812	778739	738867	0.949	1.58	6 Aroclor 1248
4.847	641312	626248	0.977	1.30	
4.879	2097967	1126438	0.537	4.28	6 Aroclor 1248
4.957	557886	484629	0.869	1.13	
5.037	618792	572669	0.925	1.26	6 Aroclor 1248
5.102	1033935	910229	0.880	2.11	
5.161	1852449	1567549	0.846	3.78	7 Aroclor 1254
5.212	1474314	1309184	0.888	3.00	
5.283	191170	181445	0.949	0.39	
5.306	300921	243069	0.808	0.61	
5.363	492046	446638	0.908	1.00	
5.406	1139651	1022952	0.898	2.32	7 Aroclor 1254
5.447	958215	799820	0.835	1.95	
5.478	94954	98089	1.033	0.19	
5.509	2022010	1691882	0.837	4.12	7 Aroclor 1254
5.578	152456	139287	0.914	0.31	
5.604	225324	190534	0.846	0.46	
5.674	719103	667149	0.928	1.46	
5.711	290167	227642	0.785	0.59	
5.742	530772	397851	0.750	1.08	
5.790	2889247	2109414	0.730	5.89	
5.886	238879	178495	0.747	0.48	
5.930	315271	251637	0.798	0.64	
5.993	721777	659348	0.914	1.47	
6.024	1117329	999603	0.895	2.28	7 Aroclor 1254
6.056	2161262	1805970	0.836	4.41	
6.169	420302	318932	0.759	0.85	
6.227	196608	199680	1.016	0.40	
6.242	263009	224305	0.853	0.53	
6.300	3219013	2615614	0.813	7.01	7 Aroclor 1254
6.332	287818	257084	0.893	0.58	
6.373	135933	109212	0.803	0.27	
6.432	384845	320583	0.833	0.78	
6.510	1185071	1072054	0.905	2.41	
6.535	545069	497736	0.913	1.11	
6.560	266641	239899	0.900	0.54	
6.606	110534	90319	0.817	0.22	
6.660	62363	56838	0.911	0.12	
6.718	279549	243028	0.869	0.57	
6.759	283379	248244	0.876	0.57	
6.801	389449	348179	0.894	0.79	
6.839	198343	159228	0.803	0.40	
6.912	48258	44220	0.916	0.09	
6.942	182531	166944	0.915	0.37	
7.004	945552	871262	0.921	1.93	8 Aroclor 1260
7.034	118323	101250	0.856	0.24	
7.073	19942	16937	0.849	0.04	
7.121	29757	20559	0.691	0.06	
7.252	456056	400886	0.879	0.93	8 Aroclor 1260
7.282	155687	128357	0.824	0.31	
7.389	508073	431213	0.849	1.03	
7.442	491633	431439	0.878	1.00	8 Aroclor 1260
7.551	29838	24283	0.814	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.689	123036	109222	0.888	0.25	
7.727	122988	95923	0.780	0.25	
7.801	66661	41396	0.621	0.13	
7.862	10896	9459	0.868	0.02	
7.900	332248	285310	0.859	0.67	8 Aroclor 1260
7.962	40786	29357	0.720	0.08	
8.053	36998	28170	0.761	0.07	
8.274	323942	286458	0.884	0.66	
8.383	15425	10657	0.691	0.03	
8.570	2357385	1995781	0.847	4.81	$ 12 Decachlorobiphenyl
9.170	48025	39255	0.817	0.09	
9.464	9714	7568	0.779	0.01	
	48980669	41742986		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218014.D
Lab Smp Id: 40157487014 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 17:51
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487014 x5,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 14
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.977	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.484	2.484	0.000	2139094	0.01735	43			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1391909	0.59408	1500	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	985757	0.23751	600	0.00- 20.00	70.82	BA
4.812	4.812	0.000	778739	0.38360	960	0.00- 20.00	55.95	BA
4.879	4.879	0.000	2097966	0.41647	1000	0.00- 20.00	150.73	BA
5.037	5.038	-0.001	618791	0.17244	430	0.00- 20.00	44.46	BA
Average of Peak Concentrations =					900			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1852449	0.35384	890	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1139651	0.26497	660	0.00- 20.00	61.52	BA
5.509	5.510	-0.001	2022010	0.26036	650	0.00- 20.00	109.15	BA
6.024	6.027	-0.003	1117328	0.22945	570	0.00- 20.00	60.32	BA
6.300	6.299	0.001	3219013	0.49469	1200	0.00- 20.00	173.77	BA
Average of Peak Concentrations =					800			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	945552	0.09442	240	0.00- 20.00	29.37	BA
7.251	7.251	0.000	456056	0.09541	240	0.00- 20.00	14.17	BA
7.441	7.443	-0.002	491633	0.16865	420	0.00- 20.00	15.27	BA
7.900	7.901	-0.001	332247	0.12591	320	0.00- 20.00	10.32	BA
Average of Peak Concentrations =					300			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2357384	0.02152	54			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218014.D

Date : 02-APR-2018 17:51

Client ID: SW3-170614-01-LMB-0

Instrument: 40GCSJ.i

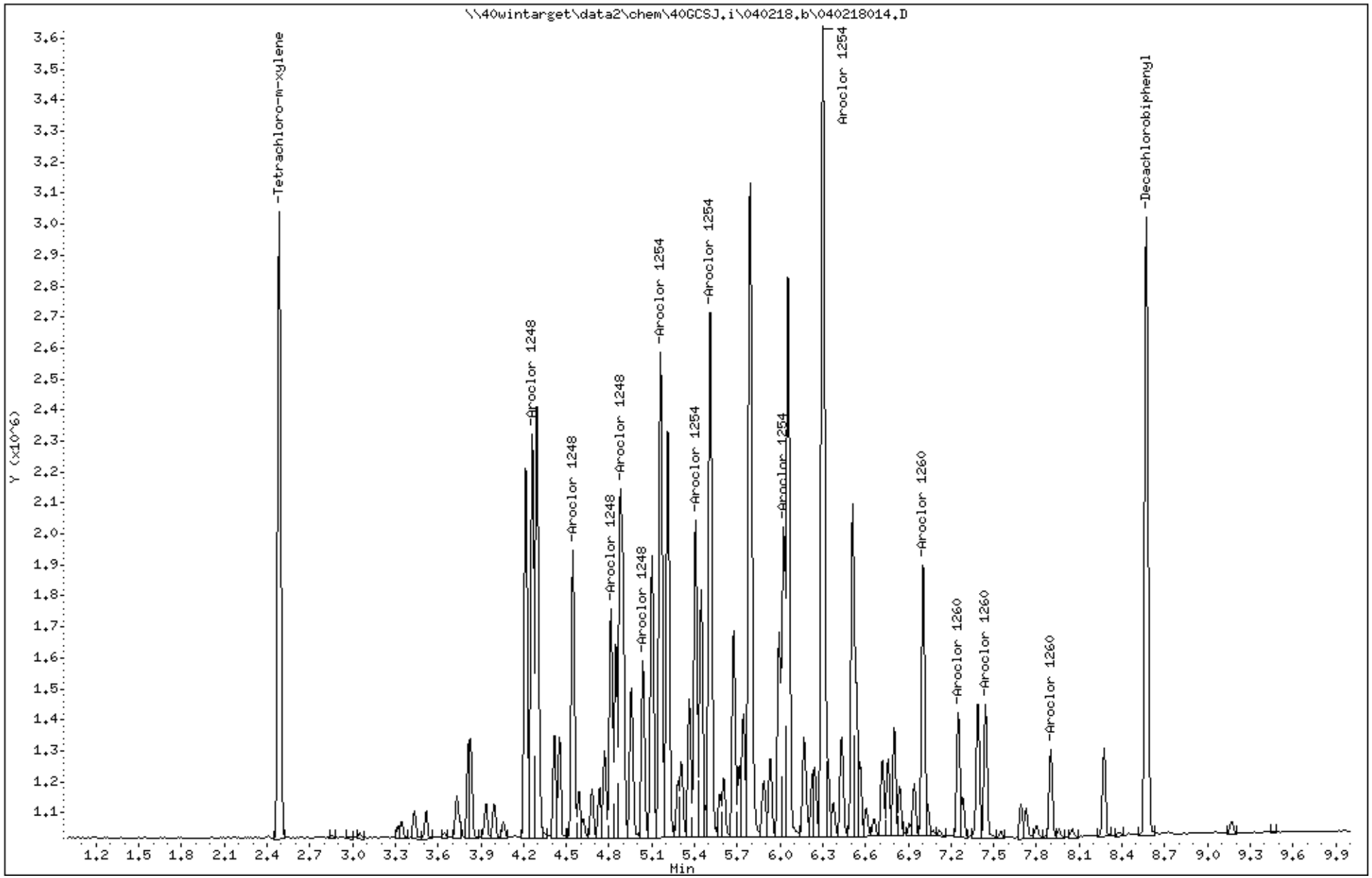
Sample Info: 40157487014 x5,

Volume Injected (uL): 1.0

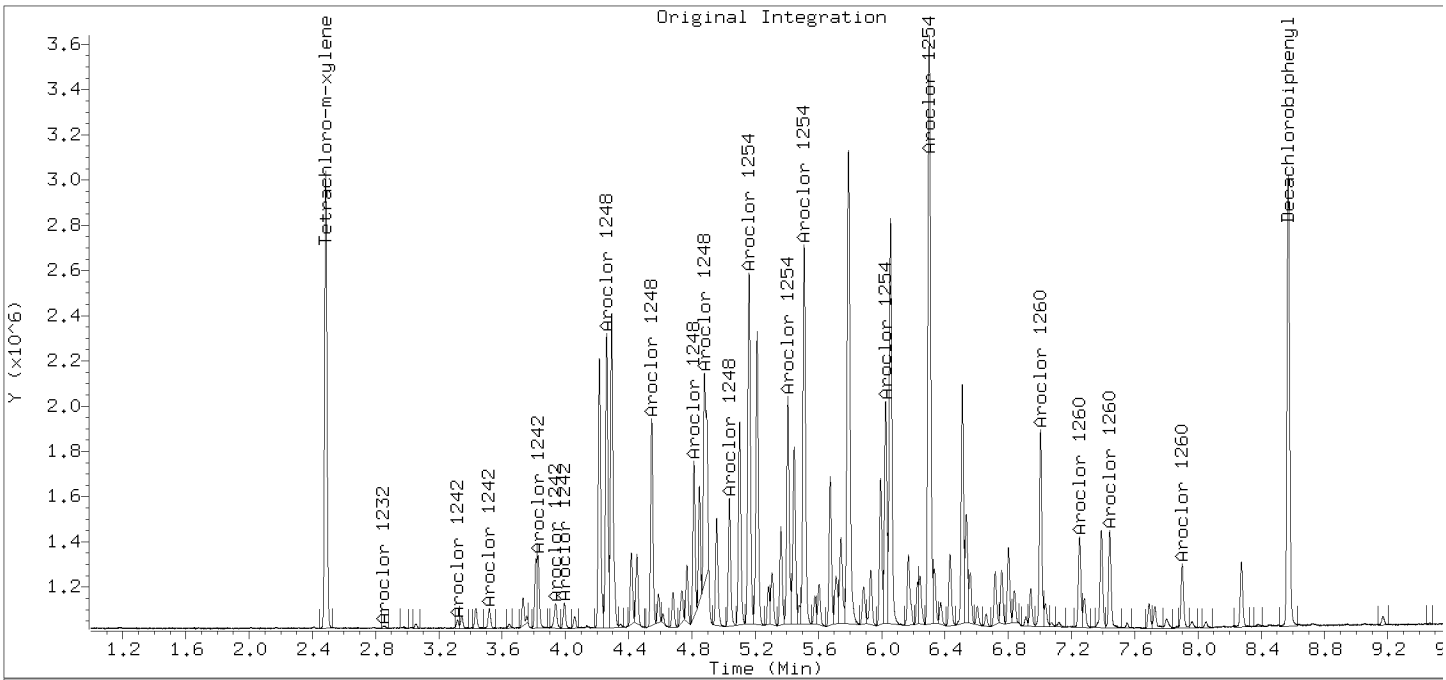
Operator: BLM

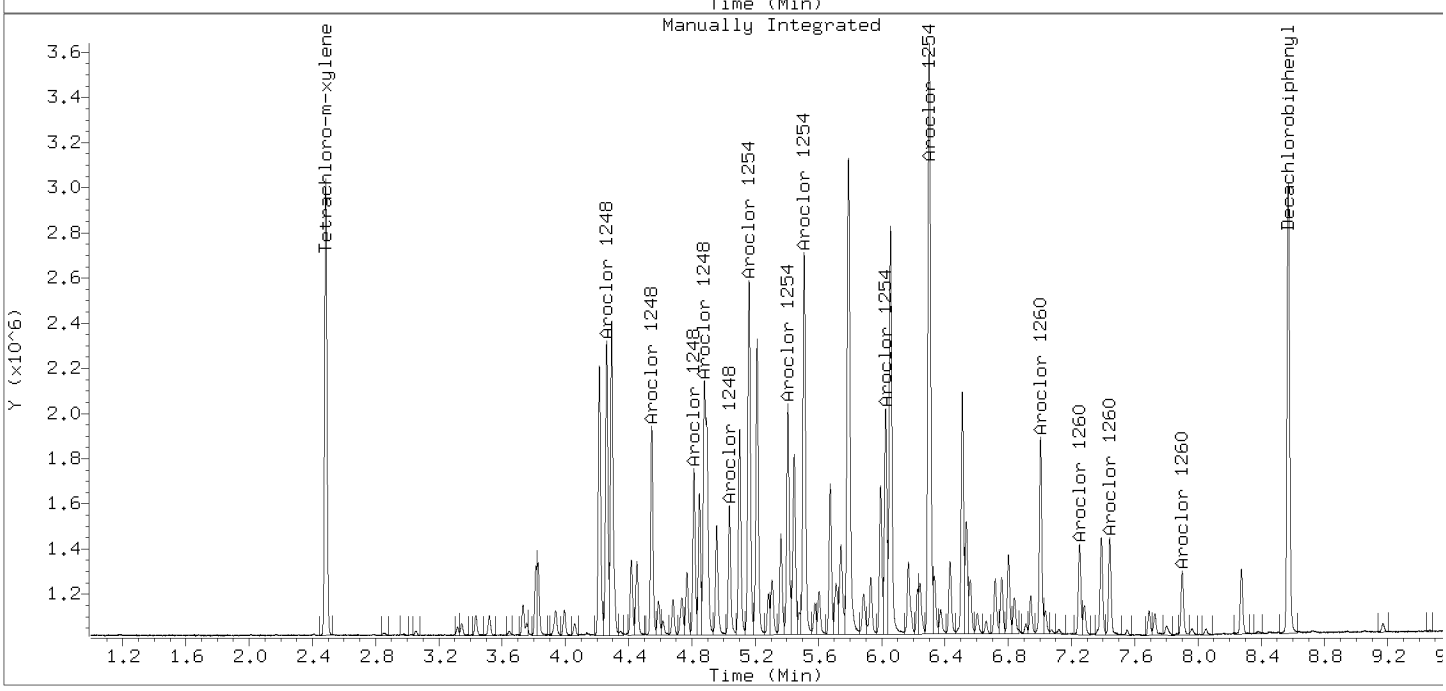
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218014.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 17:51 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487014





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	38458	0	
Aroclor 1016	38458	0	
Aroclor 1016	38458	0	
Aroclor 1016	38458	0	
Aroclor 1016	38458	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	16630	0	
Aroclor 1232	16630	0	
Aroclor 1232	16630	0	
Aroclor 1232	16630	0	

Aroclor 1232	16630	0	
Aroclor 1242	38458	0	
Aroclor 1242	38458	0	
Aroclor 1242	38458	0	
Aroclor 1242	38458	0	
Aroclor 1242	38458	0	
Aroclor 1248	1384402	1391909	BA
Aroclor 1248	1384402	1391909	BA
Aroclor 1248	1384402	1391909	BA
Aroclor 1248	1384402	1391909	BA
Aroclor 1248	1384402	1391909	BA
Aroclor 1254	1804437	1852449	BA
Aroclor 1254	1804437	1852449	BA
Aroclor 1254	1804437	1852449	BA
Aroclor 1254	1804437	1852449	BA
Aroclor 1254	1804437	1852449	BA
Aroclor 1260	3175214	0	BA
Aroclor 1260	3175214	0	BA
Aroclor 1260	3175214	0	BA
Aroclor 1260	3175214	0	BA
Aroclor 1260	3175214	0	BA
Tetrachloro-m-xylene	2139094	2139094	
Decachlorobiphenyl	2357384	2357384	

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SAMPLE NO.

SW3-170614-01-LMB-06

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 09/27/2017 10:20

Matrix: Tissue SDG No.: 40157487

Date Extracted: 03/30/2018 07:22

Lab Sample ID: 40157487015

Date Analyzed: 04/02/2018 18:07

Lab File ID: 040218.B\040218015.D

Initial wt/vol: 9.9649 g Final wt/vol: 5 mL Dilution: 10

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	<114	U
11141-16-5	PCB-1232 (Aroclor 1232)	<114	U
53469-21-9	PCB-1242 (Aroclor 1242)	<114	U
12672-29-6	PCB-1248 (Aroclor 1248)	1500	
11097-69-1	PCB-1254 (Aroclor 1254)	1130	
11096-82-5	PCB-1260 (Aroclor 1260)	340	J
1336-36-3	PCB, Total	2980	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218015.D
Lab Smp Id: 40157487015 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 18:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487015 x10,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.965	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
2.410	19349	17013	0.879	0.05		1 Aroclor 1221	
2.484	1054916	1013367	0.961	2.94	$	2 Tetrachloro-m-xylene	
2.790	10788	10191	0.945	0.03		1 Aroclor 1221	
2.849	24920	23174	0.930	0.06		1 Aroclor 1221	
2.972	11346	9990	0.880	0.03			
3.053	57577	53655	0.932	0.16			
3.318	66998	66319	0.990	0.18			
3.344	99787	92968	0.932	0.27			
3.433	167034	156487	0.937	0.46			
3.519	154290	139853	0.906	0.43			
3.646	30038	24748	0.824	0.08			
3.732	188110	186269	0.990	0.52			
3.757	74581	69501	0.932	0.20			
3.814	421057	422372	1.003	1.17			
3.826	369587	414195	1.121	1.03			
3.938	201301	165151	0.820	0.56			
3.994	157971	144678	0.916	0.44			
4.059	71426	62519	0.875	0.19			
4.135	21236	13950	0.657	0.05			
4.214	1222794	1119024	0.915	3.41			
4.261	1304178	1243042	0.953	3.64		6 Aroclor 1248	BA
4.292	1554219	1313732	0.845	4.34			
4.417	318523	291438	0.915	0.88			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.452	322831	283811	0.879	0.90	
4.546	866543	812967	0.938	2.42	6 Aroclor 1248
4.589	153854	142406	0.926	0.42	
4.617	74960	60849	0.812	0.20	
4.681	147958	135794	0.918	0.41	
4.736	178714	150411	0.842	0.49	
4.769	225072	209833	0.932	0.62	
4.812	603031	558663	0.926	1.68	6 Aroclor 1248
4.847	438497	427102	0.974	1.22	
4.879	1581841	809564	0.512	4.41	6 Aroclor 1248
4.956	445640	386772	0.868	1.24	
5.037	436653	387586	0.888	1.21	6 Aroclor 1248
5.101	853916	752737	0.882	2.38	
5.161	1370662	1174635	0.857	3.82	7 Aroclor 1254
5.212	1101805	935795	0.849	3.07	
5.283	151246	144795	0.957	0.42	
5.307	217490	179476	0.825	0.60	
5.362	329846	305581	0.926	0.92	
5.406	794012	704874	0.888	2.21	7 Aroclor 1254
5.448	678192	558380	0.823	1.89	
5.480	75238	82155	1.092	0.21	
5.510	1403576	1233040	0.878	3.92	7 Aroclor 1254
5.577	132517	115846	0.874	0.37	
5.604	143270	123958	0.865	0.40	
5.675	553618	528191	0.954	1.54	
5.709	203478	156185	0.768	0.56	
5.741	392462	305528	0.778	1.09	
5.790	2038333	1496838	0.734	5.69	
5.886	182543	137252	0.752	0.50	
5.930	232098	190527	0.821	0.64	
5.993	536508	489634	0.913	1.49	
6.025	718094	627424	0.874	2.00	7 Aroclor 1254
6.055	1518666	1264358	0.833	4.24	
6.169	277294	203921	0.735	0.77	
6.227	122749	132002	1.075	0.34	
6.240	189867	153500	0.808	0.53	
6.300	2314994	1868644	0.807	6.93	7 Aroclor 1254
6.332	204216	183812	0.900	0.57	
6.374	92697	68838	0.743	0.25	
6.431	242623	199001	0.820	0.67	
6.510	740890	688397	0.929	2.06	
6.535	384223	342625	0.892	1.07	
6.560	162264	151191	0.932	0.45	
6.604	74497	59441	0.798	0.20	
6.659	33552	29514	0.880	0.09	
6.717	150637	133308	0.885	0.42	
6.757	173756	149157	0.858	0.48	
6.801	257297	225695	0.877	0.71	
6.838	118420	83728	0.707	0.33	
6.912	24392	25715	1.054	0.06	
6.942	122056	112758	0.924	0.34	
7.004	564276	521981	0.925	1.57	8 Aroclor 1260
7.034	64340	59490	0.925	0.17	
7.074	15398	12887	0.837	0.04	
7.250	295380	260605	0.882	0.82	8 Aroclor 1260
7.282	97166	83364	0.858	0.27	
7.388	252444	223170	0.884	0.70	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.441	247286	224361	0.907	0.69	8 Aroclor 1260
7.552	24086	15848	0.658	0.06	
7.690	63009	57571	0.914	0.17	
7.727	49379	42930	0.869	0.13	
7.802	38026	21405	0.563	0.10	
7.900	179655	150154	0.836	0.50	8 Aroclor 1260
7.958	22803	16691	0.732	0.06	
8.047	28641	18026	0.629	0.07	
8.274	147166	126825	0.862	0.41	
8.373	9255	9126	0.986	0.02	
8.570	1235747	1046347	0.847	3.45	$ 12 Decachlorobiphenyl
8.936	16479	12846	0.780	0.04	
9.170	17975	16459	0.916	0.05	
9.468	26910	14853	0.552	0.07	
9.959	16930	13121	0.775	0.04	
	35803962	30685910		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218015.D
Lab Smp Id: 40157487015 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 18:07
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487015 x10,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 15
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.965	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Compound Not Detected.

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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.483	2.484	-0.001	1054915	0.00856		43		

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.261	4.261	0.000	1304177	0.55663	2800	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	866542	0.20879	1000	0.00- 20.00	66.44	BA
4.811	4.812	-0.001	603031	0.29705	1500	0.00- 20.00	46.24	BA
4.879	4.879	0.000	1581841	0.31402	1600	0.00- 20.00	121.29	BA
5.036	5.038	-0.002	436653	0.12168	610	0.00- 20.00	33.48	BA
Average of Peak Concentrations =					1500			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1370661	0.26181	1300	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	794011	0.18461	930	0.00- 20.00	57.93	BA
5.509	5.510	-0.001	1403576	0.18073	910	0.00- 20.00	102.40	BA
6.025	6.027	-0.002	718094	0.14746	740	0.00- 20.00	52.39	BA
6.300	6.299	0.001	2314993	0.35576	1800	0.00- 20.00	168.90	BA
Average of Peak Concentrations =					1100			
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	564276	0.05635	280	0.00- 20.00	24.37	BA
7.249	7.251	-0.002	295380	0.06180	310	0.00- 20.00	12.76	BA
7.441	7.443	-0.002	247286	0.08483	420	0.00- 20.00	10.68	BA
7.899	7.901	-0.002	179654	0.06808	340	0.00- 20.00	7.76	BA
Average of Peak Concentrations =					340			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	1235747	0.01128	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.

Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218015.D

Date : 02-APR-2018 18:07

Client ID: SW3-170614-01-LMB-0

Instrument: 40GCSJ.i

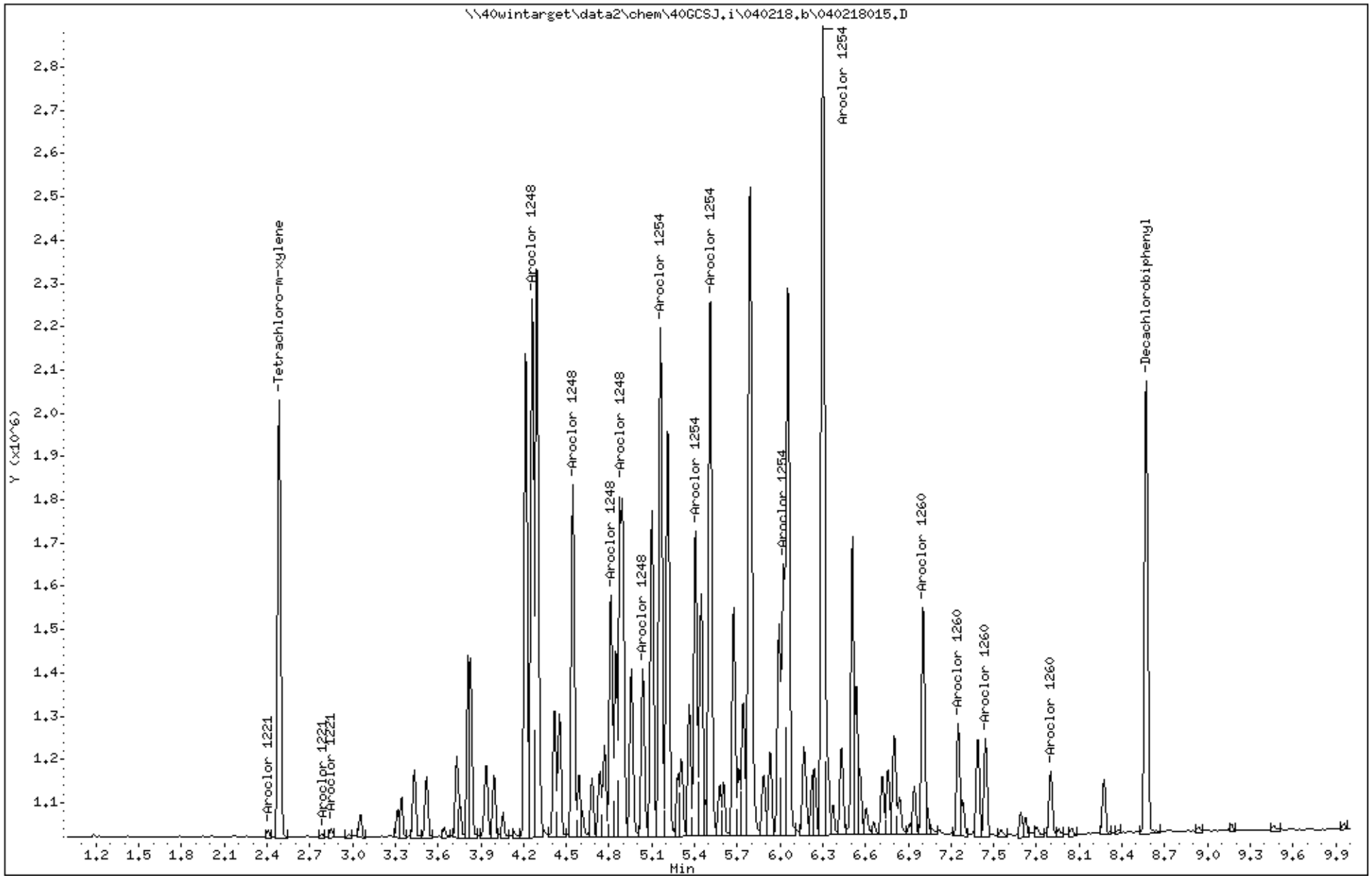
Sample Info: 40157487015 x10,

Volume Injected (uL): 1.0

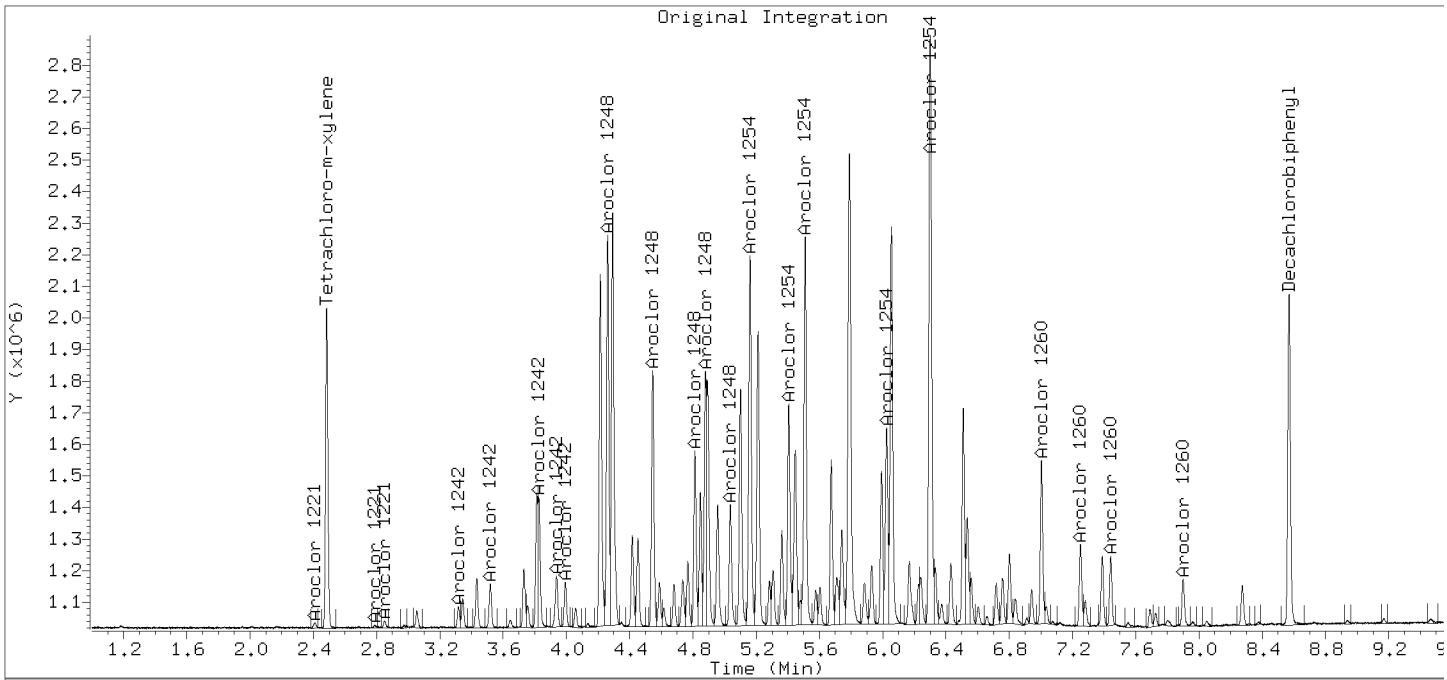
Operator: BLM

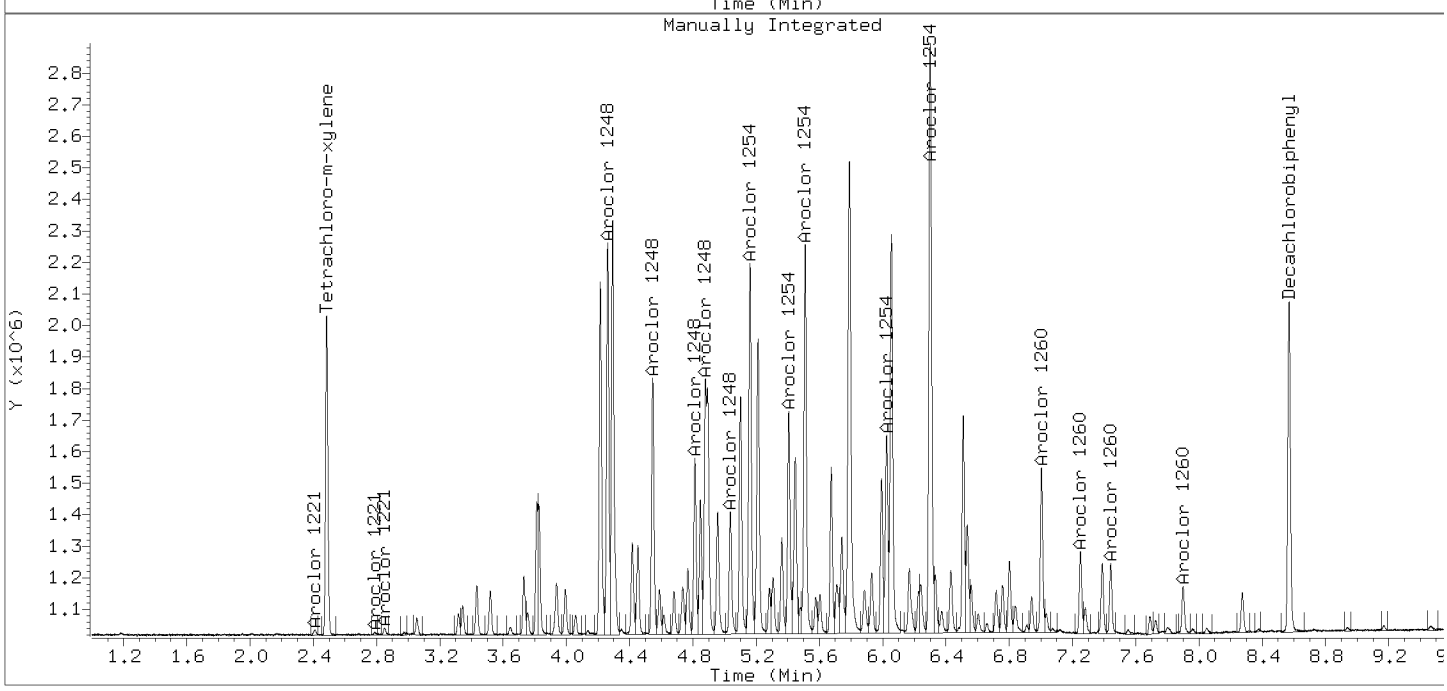
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 18:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487015





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	66997	0	
Aroclor 1016	66997	0	
Aroclor 1016	66997	0	
Aroclor 1016	66997	0	
Aroclor 1016	66997	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	24919	0	
Aroclor 1232	24919	0	
Aroclor 1232	24919	0	
Aroclor 1232	24919	0	

Aroclor 1232	24919	0	
Aroclor 1242	66997	0	
Aroclor 1242	66997	0	
Aroclor 1242	66997	0	
Aroclor 1242	66997	0	
Aroclor 1242	66997	0	
Aroclor 1248	1285831	1304177	BA
Aroclor 1248	1285831	1304177	BA
Aroclor 1248	1285831	1304177	BA
Aroclor 1248	1285831	1304177	BA
Aroclor 1248	1285831	1304177	BA
Aroclor 1254	1357729	1370661	BA
Aroclor 1254	1357729	1370661	BA
Aroclor 1254	1357729	1370661	BA
Aroclor 1254	1357729	1370661	BA
Aroclor 1254	1357729	1370661	BA
Aroclor 1260	2298896	0	BA
Aroclor 1260	2298896	0	BA
Aroclor 1260	2298896	0	BA
Aroclor 1260	2298896	0	BA
Aroclor 1260	2298896	0	BA
Tetrachloro-m-xylene	1054915	1054915	
Decachlorobiphenyl	1235747	1235747	

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SAMPLE NO.

SW3-170614-01-LMB-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 03/30/2018 07:22
Lab Sample ID: 40157487016
Date Analyzed: 04/02/2018 18:54
Lab File ID: 040218.B\040218018.D
Initial wt/vol: 10.0255 Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.5	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.5	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.5	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.5	U
12672-29-6	PCB-1248 (Aroclor 1248)	536	
11097-69-1	PCB-1254 (Aroclor 1254)	547	
11096-82-5	PCB-1260 (Aroclor 1260)	202	
1336-36-3	PCB, Total	1290	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218018.D
Lab Smp Id: 40157487016 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 18:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487016 x4,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.025	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.408	18838	16953	0.900	0.04		
2.483	2680129	2569822	0.959	6.51	$ 2 Tetrachloro-m-xylene	
2.853	18008	15948	0.886	0.04		
3.053	35462	29944	0.844	0.08		
3.318	35768	33783	0.944	0.08		
3.344	51599	42046	0.815	0.12		
3.433	69733	62139	0.891	0.16		
3.519	70275	62414	0.888	0.17		
3.644	18825	13019	0.692	0.04		
3.731	91530	77697	0.849	0.22		
3.826	381286	228121	0.598	0.92		
3.936	99299	79651	0.802	0.24		
3.994	83380	74484	0.893	0.20		
4.058	39964	33686	0.843	0.09		
4.214	826712	756907	0.916	2.00		
4.260	937671	912013	0.973	2.27	6 Aroclor 1248	BA
4.292	1290032	1082804	0.839	3.13		
4.416	232869	218069	0.936	0.56		
4.451	234784	205362	0.875	0.57		
4.545	668003	616553	0.923	1.62	6 Aroclor 1248	BA
4.588	117331	107953	0.920	0.28		
4.615	51681	43652	0.845	0.12		
4.680	126603	112684	0.890	0.30		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.736	163809	135759	0.829	0.39	
4.767	215252	199928	0.929	0.52	
4.812	700517	669751	0.956	1.70	6 Aroclor 1248
4.847	347283	326068	0.939	0.84	
4.878	1548138	956319	0.618	3.76	6 Aroclor 1248
4.956	373905	312741	0.836	0.90	
5.037	465269	416670	0.896	1.13	6 Aroclor 1248
5.101	749264	690569	0.922	1.82	
5.161	1601933	1351742	0.844	3.89	7 Aroclor 1254
5.212	1415305	1226576	0.867	3.43	
5.282	172523	162889	0.944	0.41	
5.306	201530	164774	0.818	0.48	
5.362	443208	403721	0.911	1.07	
5.406	903208	792685	0.878	2.19	7 Aroclor 1254
5.447	898092	737080	0.821	2.18	
5.509	1586597	1389418	0.876	3.85	7 Aroclor 1254
5.577	135964	124010	0.912	0.33	
5.603	160260	138047	0.861	0.38	
5.674	434816	407446	0.937	1.05	
5.717	130895	112958	0.863	0.31	
5.742	477138	342966	0.719	1.15	
5.790	2638082	2020465	0.766	6.40	
5.886	188423	134880	0.716	0.45	
5.930	224305	181411	0.809	0.54	
5.993	628689	579379	0.922	1.52	
6.023	973975	861054	0.884	2.36	7 Aroclor 1254
6.055	2009571	1698915	0.845	4.88	
6.167	333230	281161	0.844	0.80	
6.226	346080	202465	0.585	0.84	
6.299	2931334	2326610	0.794	7.12	7 Aroclor 1254
6.333	298705	274036	0.917	0.72	
6.373	125617	100802	0.802	0.30	
6.432	200443	153306	0.765	0.48	
6.509	977986	893634	0.914	2.37	
6.534	541280	486684	0.899	1.31	
6.559	240001	230038	0.958	0.58	
6.603	107858	91288	0.846	0.26	
6.659	42683	36954	0.866	0.10	
6.717	145044	122136	0.842	0.35	
6.758	128312	114339	0.891	0.31	
6.801	388118	339562	0.875	0.94	
6.840	128495	92061	0.716	0.31	
6.911	25548	24917	0.975	0.06	
6.940	140910	128865	0.915	0.34	
7.004	866720	782318	0.903	2.10	8 Aroclor 1260
7.035	94135	84725	0.900	0.22	
7.073	19332	16684	0.863	0.04	
7.250	419996	368182	0.877	1.02	8 Aroclor 1260
7.281	142807	115695	0.810	0.34	
7.387	342099	289366	0.846	0.83	
7.441	385470	325260	0.844	0.93	8 Aroclor 1260
7.553	23180	20525	0.885	0.05	
7.690	94659	83696	0.884	0.22	
7.727	57623	49837	0.865	0.14	
7.800	55377	34568	0.624	0.13	
7.899	260860	213579	0.819	0.63	8 Aroclor 1260
7.962	33044	22928	0.694	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.047	27823	20735	0.745	0.06	
8.273	213213	194932	0.914	0.51	
8.379	11752	9601	0.817	0.02	
8.569	2988036	2502567	0.838	7.69	$ 12 Decachlorobiphenyl
8.940	13033	8560	0.657	0.03	
9.170	23646	20807	0.880	0.05	
9.463	14140	7706	0.545	0.03	
	41156320	35005054		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218018.D
Lab Smp Id: 40157487016 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 18:54
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487016 x4,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 18
Dil Factor: 4.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.025	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.483	2.484	-0.001	2680129	0.02174	43			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	937671	0.40021	800	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	668003	0.16095	320	0.00- 20.00	71.24	BA
4.812	4.812	0.000	700516	0.34507	690	0.00- 20.00	74.71	BA
4.877	4.879	-0.002	1548138	0.30733	610	0.00- 20.00	165.10	BA
5.036	5.038	-0.002	465268	0.12965	260	0.00- 20.00	49.62	BA
			Average of Peak Concentrations =		540			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1601933	0.30599	610	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	903207	0.21000	420	0.00- 20.00	56.38	BA
5.508	5.510	-0.002	1586596	0.20430	410	0.00- 20.00	99.04	BA
6.023	6.027	-0.004	973975	0.20001	400	0.00- 20.00	60.80	BA
6.299	6.299	0.000	2931334	0.45048	900	0.00- 20.00	182.99	BA
			Average of Peak Concentrations =		550			
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	866719	0.08655	170	0.00- 20.00	29.57	BA
7.250	7.251	-0.001	419996	0.08787	180	0.00- 20.00	14.33	BA
7.441	7.443	-0.002	385469	0.13223	260	0.00- 20.00	13.15	BA
7.898	7.901	-0.003	260860	0.09886	200	0.00- 20.00	8.90	BA
			Average of Peak Concentrations =		200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.568	8.571	-0.003	2988035	0.02727	54			

QC Flag Legend

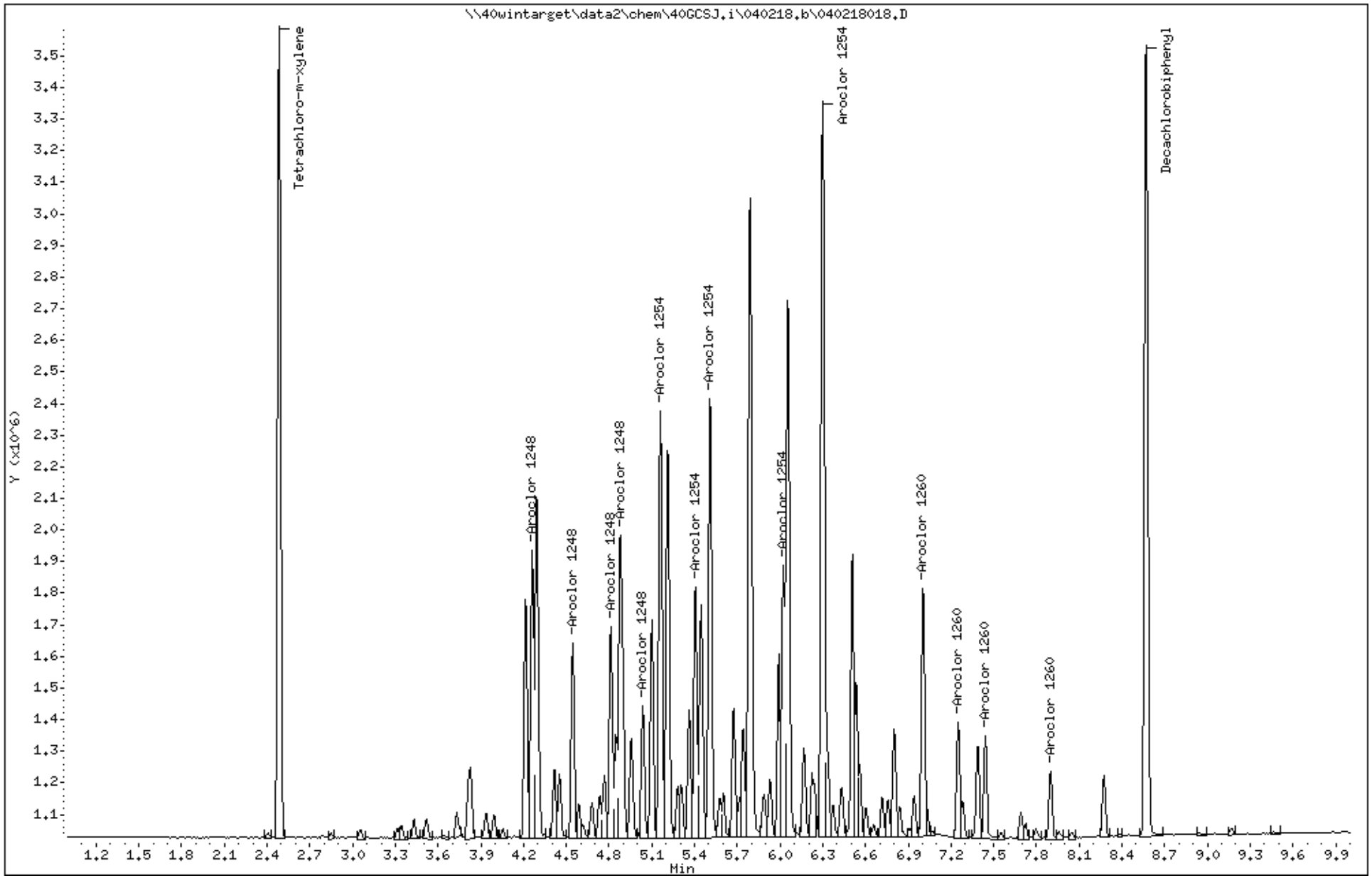
M - Compound response manually integrated.

Review Codes Legend

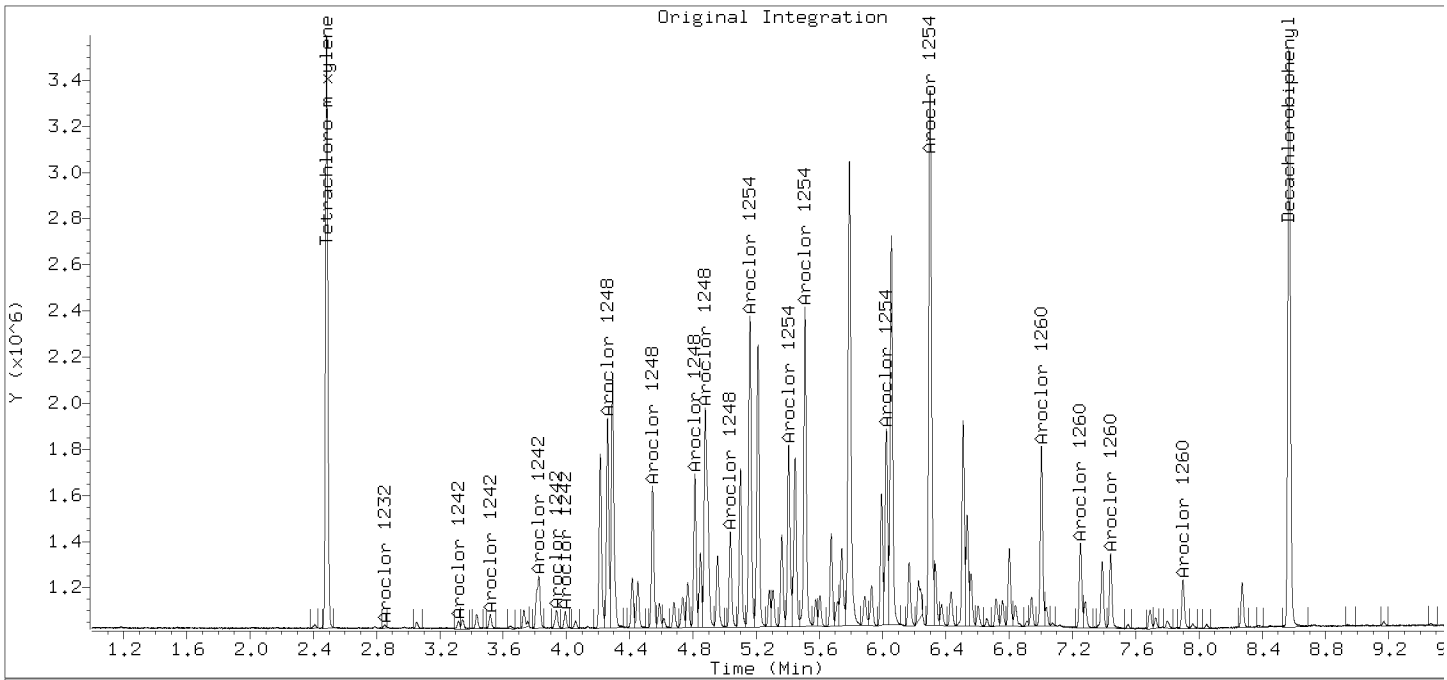
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

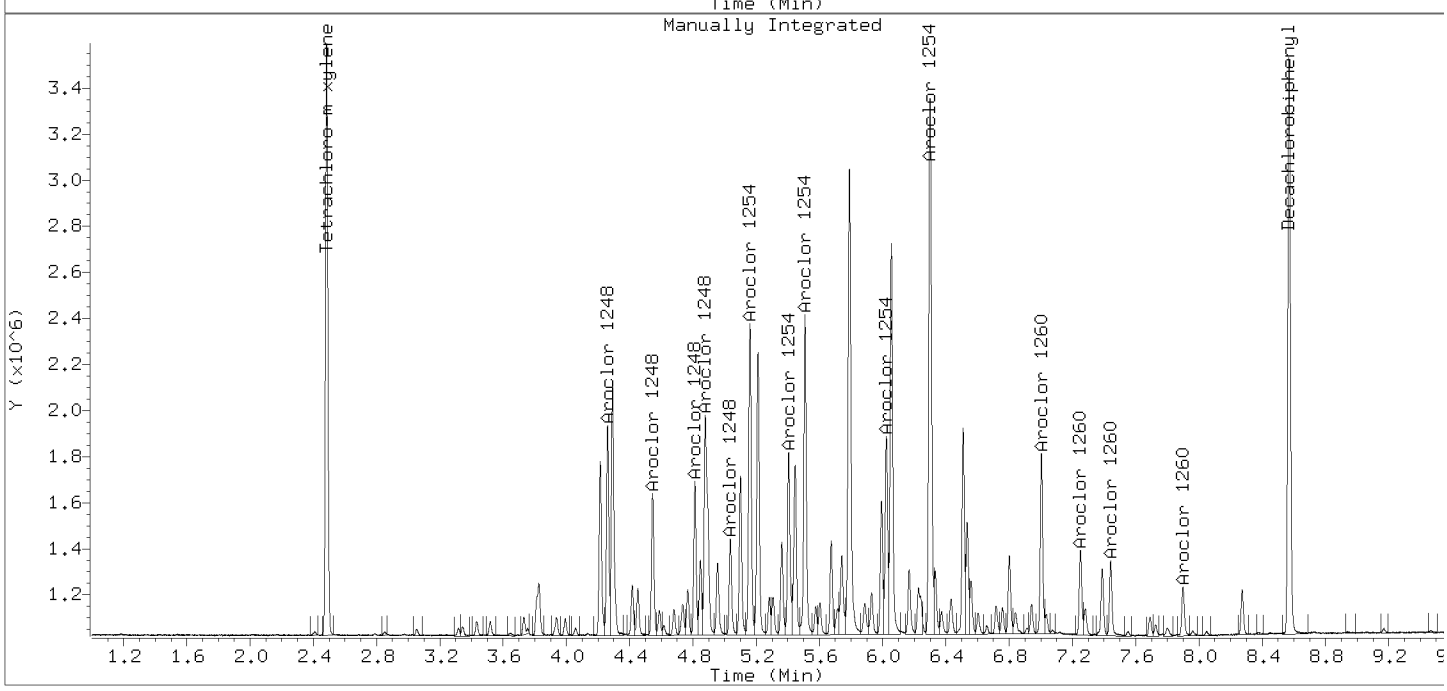
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218018.D
Date : 02-APR-2018 18:54
Client ID: SW3-170614-01-LMB-0
Sample Info: 40157487016 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218018.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 18:54 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487016





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	35768	0	
Aroclor 1016	35768	0	
Aroclor 1016	35768	0	
Aroclor 1016	35768	0	
Aroclor 1016	35768	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	18008	0	
Aroclor 1232	18008	0	
Aroclor 1232	18008	0	
Aroclor 1232	18008	0	

Aroclor 1232	18008	0	
Aroclor 1242	35768	0	
Aroclor 1242	35768	0	
Aroclor 1242	35768	0	
Aroclor 1242	35768	0	
Aroclor 1242	35768	0	
Aroclor 1248	929586	937671	BA
Aroclor 1248	929586	937671	BA
Aroclor 1248	929586	937671	BA
Aroclor 1248	929586	937671	BA
Aroclor 1248	929586	937671	BA
Aroclor 1254	1590819	1601933	BA
Aroclor 1254	1590819	1601933	BA
Aroclor 1254	1590819	1601933	BA
Aroclor 1254	1590819	1601933	BA
Aroclor 1254	1590819	1601933	BA
Aroclor 1260	2908533	0	BA
Aroclor 1260	2908533	0	BA
Aroclor 1260	2908533	0	BA
Aroclor 1260	2908533	0	BA
Aroclor 1260	2908533	0	BA
Tetrachloro-m-xylene	2680129	2680129	
Decachlorobiphenyl	2988035	2988035	

==========

SAMPLE NO.

SW3-170614-01-LMB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 03/30/2018 07:22
Lab Sample ID: 40157487017
Date Analyzed: 04/02/2018 19:10
Lab File ID: 040218.B\040218019.D
Initial wt/vol: 10.0169 Final wt/vol: 5 mL Dilution: 10
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	<114	U
11141-16-5	PCB-1232 (Aroclor 1232)	<114	U
53469-21-9	PCB-1242 (Aroclor 1242)	<114	U
12672-29-6	PCB-1248 (Aroclor 1248)	878	
11097-69-1	PCB-1254 (Aroclor 1254)	1100	
11096-82-5	PCB-1260 (Aroclor 1260)	384	J
1336-36-3	PCB, Total	2370	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218019.D
Lab Smp Id: 40157487017 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 19:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487017 x10,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.017	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.414	14722	11188	0.760	0.05		
2.484	996496	971301	0.975	3.41	$ 2 Tetrachloro-m-xylene	
2.849	14729	9660	0.656	0.05		
3.054	19817	15600	0.787	0.06		
3.314	12202	13124	1.076	0.04	3 Aroclor 1242	BA
3.344	20293	18124	0.893	0.06		
3.434	32682	30723	0.940	0.11		
3.519	33244	28137	0.846	0.11	3 Aroclor 1242	BA
3.731	42050	40398	0.961	0.14		
3.757	16942	15592	0.920	0.05		
3.826	171398	98342	0.574	0.58	3 Aroclor 1242	BA
3.939	49583	35774	0.722	0.16	3 Aroclor 1242	BA
3.992	38552	33858	0.878	0.13	3 Aroclor 1242	BA
4.059	17508	17477	0.998	0.06		
4.214	520474	489422	0.940	1.78		
4.261	552497	533098	0.965	1.89	6 Aroclor 1248	BA
4.293	823075	691872	0.841	2.82		
4.346	13967	11563	0.828	0.04		
4.418	113863	105882	0.930	0.39		
4.452	122111	112711	0.923	0.41		
4.546	367058	337737	0.920	1.25	6 Aroclor 1248	BA
4.588	100404	76669	0.764	0.34		
4.680	92171	81348	0.883	0.31		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.735	113403	93003	0.820	0.38	
4.767	159771	155935	0.976	0.54	
4.813	506687	477765	0.943	1.73	6 Aroclor 1248
4.848	263223	246864	0.938	0.90	
4.879	1106418	708935	0.641	3.79	6 Aroclor 1248
4.957	253268	221568	0.875	0.86	
5.037	306857	265234	0.864	1.05	6 Aroclor 1248
5.101	547145	488536	0.893	1.87	
5.160	1273719	1093907	0.859	4.36	7 Aroclor 1254
5.211	1200168	1047591	0.873	4.11	
5.284	129063	125297	0.971	0.44	
5.307	144024	122242	0.849	0.49	
5.362	331371	300584	0.907	1.13	
5.406	710884	630422	0.887	2.43	7 Aroclor 1254
5.446	693224	575565	0.830	2.37	
5.509	1118805	958296	0.857	3.83	7 Aroclor 1254
5.576	90908	85752	0.943	0.31	
5.604	117125	93113	0.795	0.40	
5.675	359141	335882	0.935	1.23	
5.718	119329	94489	0.792	0.40	
5.741	371666	270409	0.728	1.27	
5.790	2257325	1680549	0.744	7.73	
5.888	156851	116921	0.745	0.53	
5.930	168415	132748	0.788	0.57	
5.992	484831	452922	0.934	1.66	
6.024	836330	739889	0.885	2.86	7 Aroclor 1254
6.055	1704193	1467689	0.861	5.84	
6.169	270747	231336	0.854	0.92	
6.228	289397	160993	0.556	0.99	
6.300	2478751	1946190	0.785	8.94	7 Aroclor 1254
6.334	247889	224955	0.907	0.84	
6.374	106469	81364	0.764	0.36	
6.432	154421	125137	0.810	0.52	
6.509	798903	713515	0.893	2.73	
6.535	443036	398677	0.900	1.51	
6.560	181261	171520	0.946	0.62	
6.602	90926	73842	0.812	0.31	
6.659	38021	31624	0.832	0.13	
6.717	119101	99138	0.832	0.40	
6.758	109548	96387	0.880	0.37	
6.801	318079	275763	0.867	1.09	
6.839	102613	73812	0.719	0.35	
6.911	22759	19553	0.859	0.07	
6.943	103951	100340	0.965	0.35	
7.005	645199	592132	0.918	2.21	8 Aroclor 1260
7.035	69475	71615	1.031	0.23	
7.071	15554	12933	0.831	0.05	
7.251	338607	305558	0.902	1.16	8 Aroclor 1260
7.281	118488	89686	0.757	0.40	
7.389	278127	236298	0.850	0.95	
7.442	285200	241917	0.848	0.97	8 Aroclor 1260
7.552	19789	17059	0.862	0.06	
7.690	77021	67887	0.881	0.26	
7.724	41945	36276	0.865	0.14	
7.801	38070	24212	0.636	0.13	
7.900	197247	166615	0.845	0.67	8 Aroclor 1260
7.962	27848	16549	0.594	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.050	14557	14873	1.022	0.04	
8.274	169037	156545	0.926	0.57	
8.380	16104	9938	0.617	0.05	
8.570	1168073	994977	0.852	4.00	$ 12 Decachlorobiphenyl
8.940	18022	10869	0.603	0.06	
9.168	23994	16751	0.698	0.08	
9.958	19135	10911	0.570	0.06	
	29167350	24679454		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218019.D
Lab Smp Id: 40157487017 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 19:10
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487017 x10,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 19
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.017	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	996496	0.00808	40			
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	552496	0.23581	1200	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	367058	0.08844	440	0.00- 20.00	66.44	BA
4.813	4.812	0.001	506687	0.24959	1200	0.00- 20.00	91.71	BA
4.878	4.879	-0.001	1106418	0.21964	1100	0.00- 20.00	200.26	BA
5.036	5.038	-0.002	306857	0.08551	430	0.00- 20.00	55.54	BA
Average of Peak Concentrations =					880			
7 Aroclor 1254					CAS #: 11097-69-1			
5.159	5.162	-0.003	1273719	0.24330	1200	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	710884	0.16528	820	0.00- 20.00	55.81	BA
5.509	5.510	-0.001	1118804	0.14406	720	0.00- 20.00	87.84	BA
6.023	6.027	-0.004	836329	0.17174	860	0.00- 20.00	65.66	BA
6.299	6.299	0.000	2478750	0.38093	1900	0.00- 20.00	194.61	BA
Average of Peak Concentrations =					1100			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.004	7.006	-0.002	645199	0.06443	320	0.00- 20.00	26.03	BA
7.250	7.251	-0.001	338607	0.07084	350	0.00- 20.00	13.66	BA
7.441	7.443	-0.002	285200	0.09784	490	0.00- 20.00	11.51	BA
7.900	7.901	-0.001	197247	0.07475	370	0.00- 20.00	7.96	BA
Average of Peak Concentrations =					380			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	1168072	0.01066	53			

QC Flag Legend

M - Compound response manually integrated.

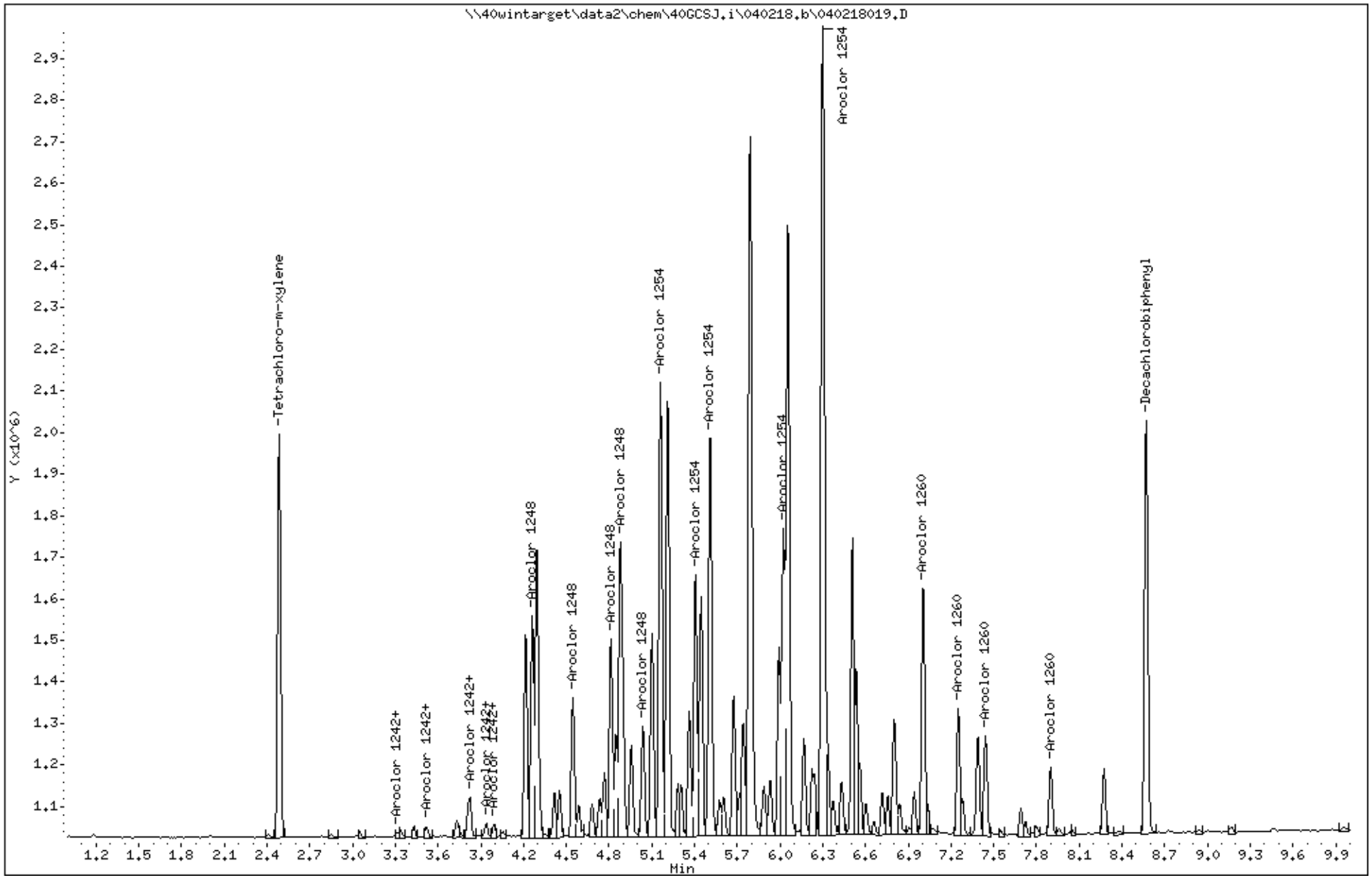
Review Codes Legend

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

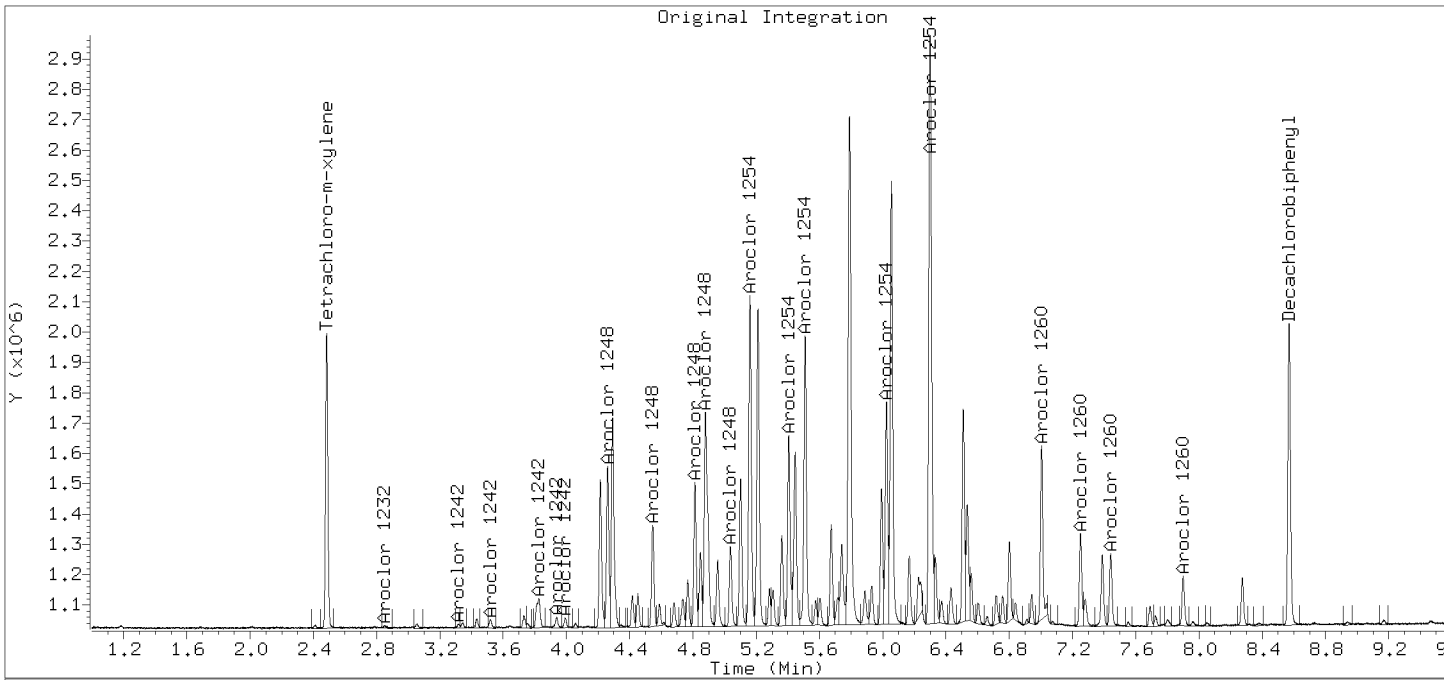
:

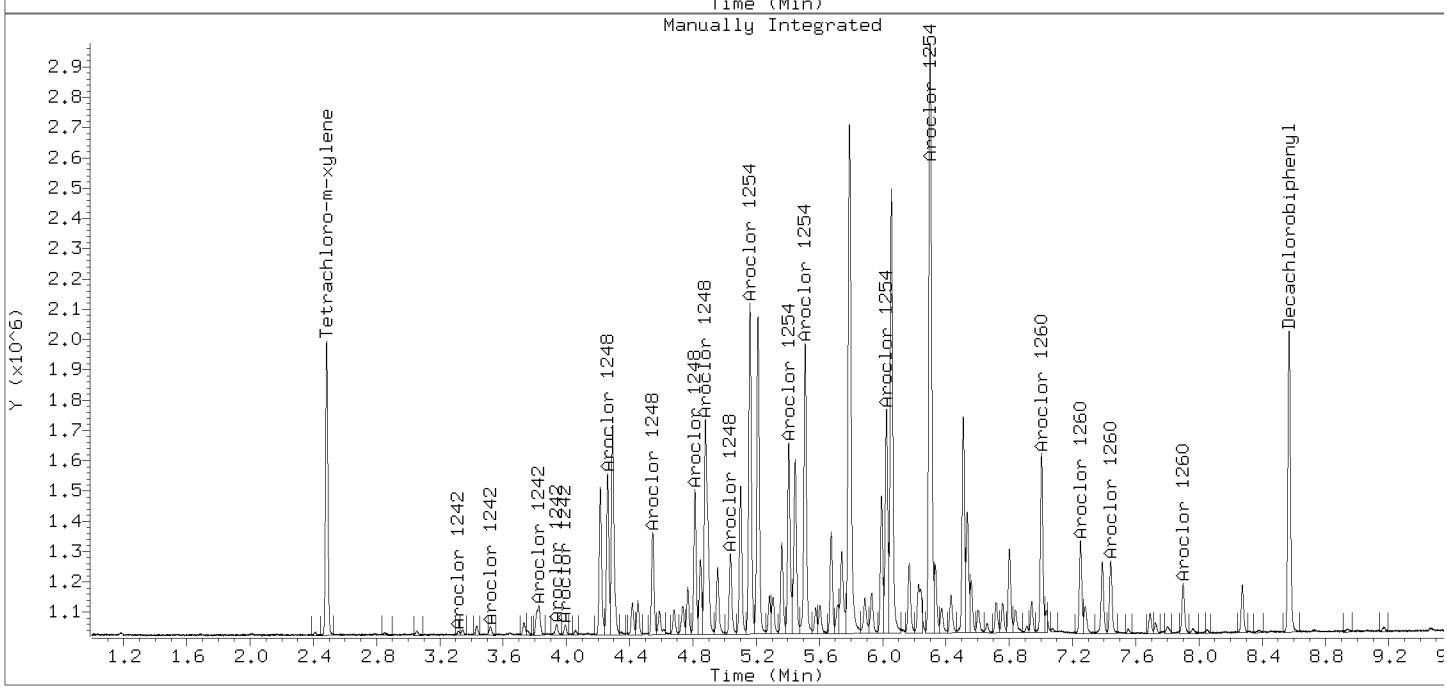
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218019.D
Date : 02-APR-2018 19:10
Client ID: SW3-170614-01-LMB-0
Sample Info: 40157487017 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 19:10 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487017





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	14729	0	
Aroclor 1232	14729	0	
Aroclor 1232	14729	0	
Aroclor 1232	14729	0	

Aroclor 1232	14729	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	550201	552496	BA
Aroclor 1248	550201	552496	BA
Aroclor 1248	550201	552496	BA
Aroclor 1248	550201	552496	BA
Aroclor 1248	550201	552496	BA
Aroclor 1254	1262506	1273719	BA
Aroclor 1254	1262506	1273719	BA
Aroclor 1254	1262506	1273719	BA
Aroclor 1254	1262506	1273719	BA
Aroclor 1254	1262506	1273719	BA
Aroclor 1260	2452324	0	BA
Aroclor 1260	2452324	0	BA
Aroclor 1260	2452324	0	BA
Aroclor 1260	2452324	0	BA
Aroclor 1260	2452324	0	BA
Tetrachloro-m-xylene	996496	996496	
Decachlorobiphenyl	1168072	1168072	

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SAMPLE NO.

SW3-170614-01-LMB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 03/30/2018 07:22
Lab Sample ID: 40157487018
Date Analyzed: 04/02/2018 19:58
Lab File ID: 040218.B\040218022.D
Initial wt/vol: 9.9778 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)	238	
11097-69-1	PCB-1254 (Aroclor 1254)	218	
11096-82-5	PCB-1260 (Aroclor 1260)	85.0	
1336-36-3	PCB, Total	542	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218022.D
Lab Smp Id: 40157487018 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 19:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487018,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 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	9.978	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.034	10297	7547	0.733	0.01		
1.065	12803	7607	0.594	0.01		
1.107	16611	7751	0.467	0.02		
1.153	12716	9601	0.755	0.01		
1.185	15796	12142	0.769	0.01		
1.535	10050	7360	0.732	0.01		
2.014	10990	7514	0.684	0.01		
2.196	43381	26847	0.619	0.05		
2.412	17603	14275	0.811	0.02		
2.485	9324588	9096559	0.976	11.77	$ 2 Tetrachloro-m-xylene	
2.785	26634	18757	0.704	0.03		
2.852	42327	28268	0.668	0.05		
2.971	17275	12457	0.721	0.02		
3.022	9215	7863	0.853	0.01		
3.054	25050	21128	0.843	0.03		
3.317	70046	64860	0.926	0.08		
3.346	80571	72128	0.895	0.10		
3.434	105824	100130	0.946	0.13		
3.519	98115	85638	0.873	0.12		
3.646	22744	19696	0.866	0.02		
3.732	167184	167180	1.000	0.21		
3.755	74893	72977	0.974	0.09		
3.827	967041	647623	0.670	1.22		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.937	160360	111226	0.694	0.20	
3.994	142140	131254	0.923	0.17	
4.059	60347	52674	0.873	0.07	
4.132	15024	11850	0.789	0.01	
4.214	1434659	1301778	0.907	1.81	
4.261	1559366	1517716	0.973	1.96	6 Aroclor 1248
4.292	2052933	1682441	0.820	2.59	
4.416	421000	392096	0.931	0.53	
4.452	417773	376293	0.901	0.52	
4.506	21876	18015	0.824	0.02	
4.546	1117572	1043973	0.934	1.41	6 Aroclor 1248
4.588	201206	191188	0.950	0.25	
4.618	95002	77232	0.813	0.12	
4.681	183340	163130	0.890	0.23	
4.737	246200	200217	0.813	0.31	
4.768	367703	348049	0.947	0.46	
4.813	1405302	1324247	0.942	1.77	6 Aroclor 1248
4.847	710514	680097	0.957	0.89	
4.879	2757155	1859413	0.674	3.48	6 Aroclor 1248
4.957	501250	423211	0.844	0.63	
5.037	726944	657496	0.904	0.91	6 Aroclor 1248
5.101	1188737	1066303	0.897	1.50	
5.161	2604471	2207793	0.848	3.29	7 Aroclor 1254
5.212	2428363	2108228	0.868	3.06	
5.283	280213	258290	0.922	0.35	
5.307	264497	224320	0.848	0.33	
5.362	654179	586179	0.896	0.82	
5.406	1275665	1155661	0.906	1.61	7 Aroclor 1254
5.447	1608477	1302274	0.810	2.03	
5.509	2304223	1902829	0.826	2.91	7 Aroclor 1254
5.577	226826	207238	0.914	0.28	
5.604	201309	172939	0.859	0.25	
5.675	830090	765624	0.922	1.04	
5.713	237731	185750	0.781	0.30	
5.742	824566	620658	0.753	1.04	
5.790	4394294	3459469	0.787	5.55	
5.887	315976	228675	0.724	0.39	
5.931	369802	306187	0.828	0.46	
5.993	1108210	1016793	0.918	1.39	
6.023	1549501	1410900	0.911	1.95	7 Aroclor 1254
6.055	3690744	3097895	0.839	4.66	
6.168	533229	441028	0.827	0.67	
6.225	571561	312897	0.547	0.72	
6.300	5009266	4041123	0.807	6.32	7 Aroclor 1254
6.332	498552	426615	0.856	0.62	
6.373	166839	139273	0.835	0.21	
6.431	390368	325378	0.834	0.49	
6.509	1625206	1440698	0.886	2.05	
6.535	944376	855328	0.906	1.19	
6.560	432337	394857	0.913	0.54	
6.604	180421	157749	0.874	0.22	
6.661	67468	63409	0.940	0.08	
6.718	224316	190096	0.847	0.28	
6.758	258763	234566	0.906	0.32	
6.801	666384	598867	0.899	0.84	
6.840	229522	172752	0.753	0.28	
6.911	49033	46747	0.953	0.06	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.941	248196	229301	0.924	0.31	
7.003	1475265	1319361	0.894	1.86	8 Aroclor 1260
7.035	158938	137782	0.867	0.20	
7.074	23625	25715	1.088	0.02	
7.120	25257	17433	0.690	0.03	
7.251	733767	666634	0.909	0.92	8 Aroclor 1260
7.280	235784	197779	0.839	0.29	
7.389	560358	504168	0.900	0.70	
7.441	623898	544541	0.873	0.78	8 Aroclor 1260
7.551	35146	28876	0.822	0.04	
7.652	7292	5928	0.813	0.00	
7.689	164835	147496	0.895	0.20	
7.726	120701	96795	0.802	0.15	
7.802	93870	61379	0.654	0.11	
7.899	430941	368149	0.854	0.54	8 Aroclor 1260
7.962	55728	38166	0.685	0.07	
8.050	41036	34011	0.829	0.05	
8.274	392884	330624	0.842	0.49	
8.380	18980	16070	0.847	0.02	
8.456	10003	8505	0.850	0.01	
8.489	9457	5463	0.578	0.01	
8.569	9633142	8368877	0.869	12.65	$ 12 Decachlorobiphenyl
8.726	10753	10748	1.000	0.01	
8.941	11091	8595	0.775	0.01	
9.052	10780	8981	0.833	0.01	
9.167	45445	36744	0.809	0.05	
	79162104	68423013		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218022.D
Lab Smp Id: 40157487018 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 19:58
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487018,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 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	9.978	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.484	2.484	0.000	9324588	0.07563		38		

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1559366	0.66555	330	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	1117571	0.26927	130	0.00- 20.00	71.67	BA
4.812	4.812	0.000	1405301	0.69224	350	0.00- 20.00	90.12	BA
4.878	4.879	-0.001	2757154	0.54733	270	0.00- 20.00	176.81	BA
5.037	5.038	-0.001	726944	0.20257	100	0.00- 20.00	46.62	BA
Average of Peak Concentrations =					240			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	2604470	0.49749	250	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	1275665	0.29659	150	0.00- 20.00	48.98	BA
5.509	5.510	-0.001	2304223	0.29670	150	0.00- 20.00	88.47	BA
6.022	6.027	-0.005	1549501	0.31819	160	0.00- 20.00	59.49	BA
6.299	6.299	0.000	5009266	0.76981	380	0.00- 20.00	192.33	BA
Average of Peak Concentrations =					220			
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	1475265	0.14731	74	0.00- 20.00	29.45	BA
7.251	7.251	0.000	733766	0.15351	77	0.00- 20.00	14.65	BA
7.441	7.443	-0.002	623897	0.21402	110	0.00- 20.00	12.45	BA
7.899	7.901	-0.002	430940	0.16331	82	0.00- 20.00	8.60	BA
Average of Peak Concentrations =					85			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	9633141	0.08793	44			

QC Flag Legend

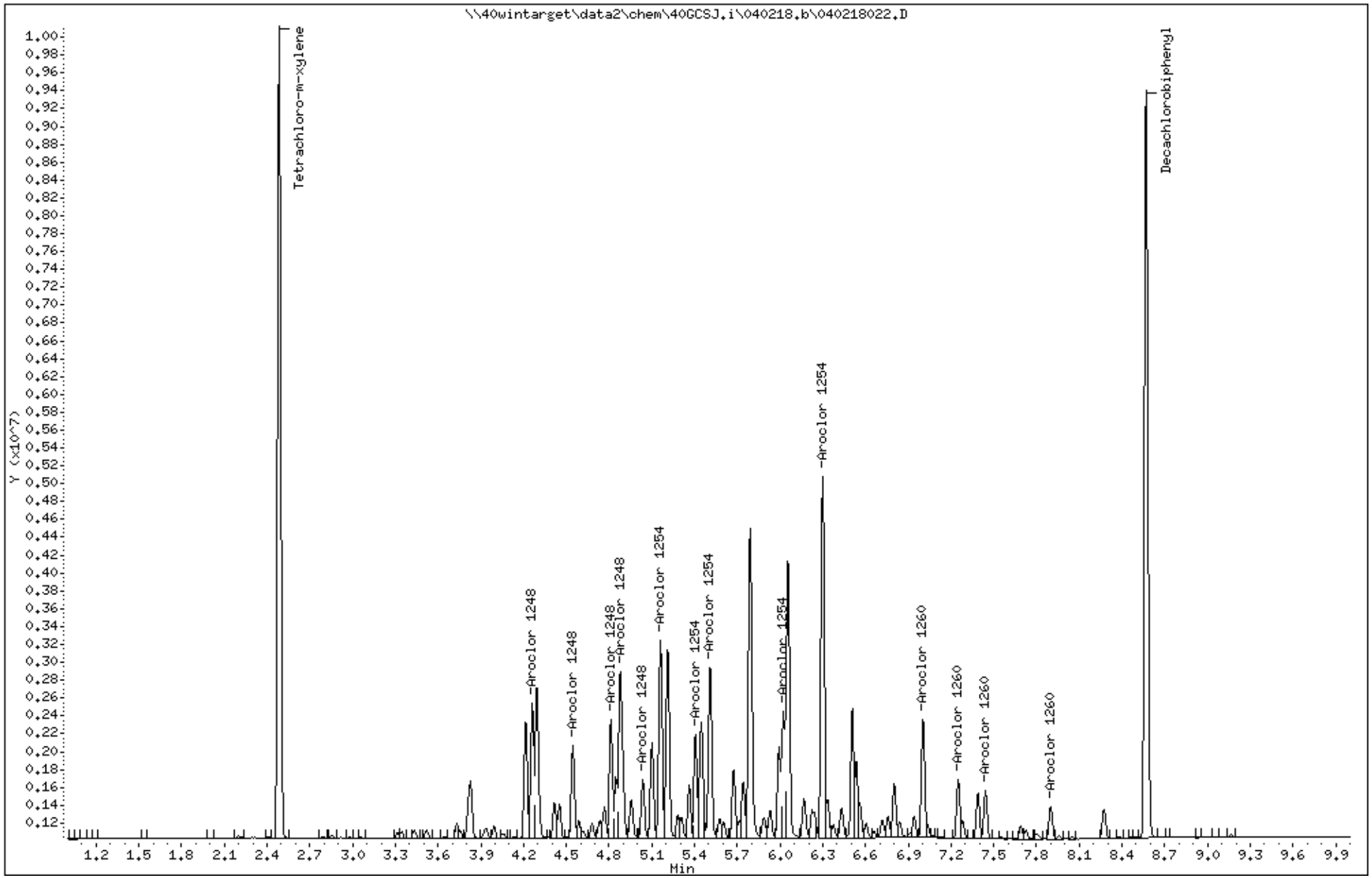
M - Compound response manually integrated.

Review Codes Legend

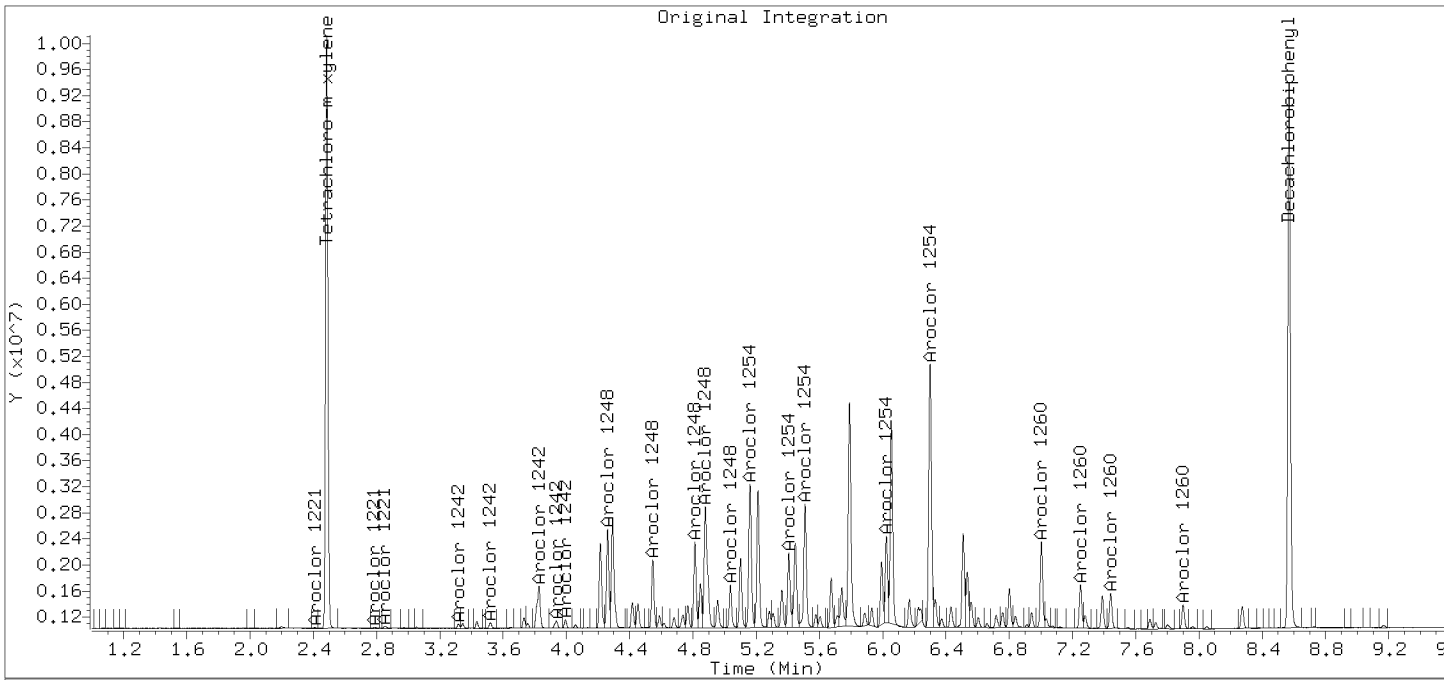
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

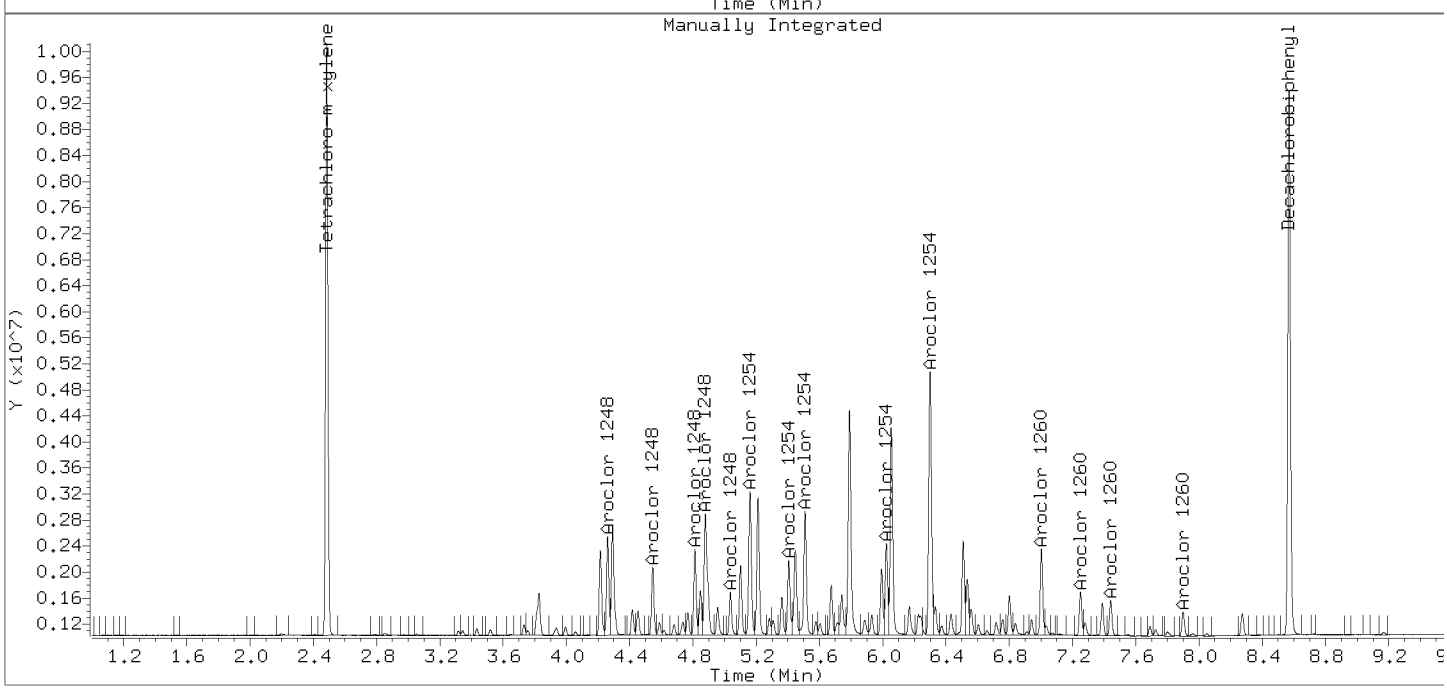
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218022.D
Date : 02-APR-2018 19:58
Client ID: SW3-170614-01-LMB-0
Sample Info: 40157487018,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 19:58 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487018





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	70045	0	
Aroclor 1016	70045	0	
Aroclor 1016	70045	0	
Aroclor 1016	70045	0	
Aroclor 1016	70045	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	42326	0	
Aroclor 1232	42326	0	
Aroclor 1232	42326	0	
Aroclor 1232	42326	0	

Aroclor 1232	42326	0	
Aroclor 1242	70045	0	
Aroclor 1242	70045	0	
Aroclor 1242	70045	0	
Aroclor 1242	70045	0	
Aroclor 1242	70045	0	
Aroclor 1248	1551651	1559366	BA
Aroclor 1248	1551651	1559366	BA
Aroclor 1248	1551651	1559366	BA
Aroclor 1248	1551651	1559366	BA
Aroclor 1248	1551651	1559366	BA
Aroclor 1254	2581366	2604470	BA
Aroclor 1254	2581366	2604470	BA
Aroclor 1254	2581366	2604470	BA
Aroclor 1254	2581366	2604470	BA
Aroclor 1254	2581366	2604470	BA
Aroclor 1260	4975046	0	BA
Aroclor 1260	4975046	0	BA
Aroclor 1260	4975046	0	BA
Aroclor 1260	4975046	0	BA
Aroclor 1260	4975046	0	BA
Tetrachloro-m-xylene	9324588	9324588	
Decachlorobiphenyl	9633141	9633141	

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SAMPLE NO.

SW3-170614-01-LMB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 03/30/2018 07:22
Lab Sample ID: 40157487019
Date Analyzed: 04/02/2018 20:14
Lab File ID: 040218.B\040218023.D
Initial wt/vol: 10.0222 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<56.9	U
11104-28-2	PCB-1221 (Aroclor 1221)	<56.9	U
11141-16-5	PCB-1232 (Aroclor 1232)	<56.9	U
53469-21-9	PCB-1242 (Aroclor 1242)	<56.9	U
12672-29-6	PCB-1248 (Aroclor 1248)	254	
11097-69-1	PCB-1254 (Aroclor 1254)	236	J
11096-82-5	PCB-1260 (Aroclor 1260)	95.8	J
1336-36-3	PCB, Total	585	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218023.D
Lab Smp Id: 40157487019 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 20:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487019 x5,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.022	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.484	1895584	1836251	0.969	10.98	$ 2 Tetrachloro-m-xylene	
3.320	15913	15395	0.967	0.09	3 Aroclor 1242	BA
3.345	20692	17210	0.832	0.11		
3.434	23923	22529	0.942	0.13		
3.518	22052	20030	0.908	0.12	3 Aroclor 1242	BA
3.732	54676	37915	0.693	0.31		
3.827	211566	133516	0.631	1.22	3 Aroclor 1242	BA
3.938	41362	25509	0.617	0.23	3 Aroclor 1242	BA
3.994	33215	28783	0.867	0.19	3 Aroclor 1242	BA
4.057	17105	13745	0.804	0.09		
4.215	313576	290807	0.927	1.81		
4.261	340831	328159	0.963	1.97	6 Aroclor 1248	BA
4.292	446365	365826	0.820	2.58		
4.417	92299	88912	0.963	0.53		
4.452	92938	80300	0.864	0.53		
4.546	235569	221623	0.941	1.36	6 Aroclor 1248	BA
4.586	47897	40328	0.842	0.27		
4.616	24352	19216	0.789	0.14		
4.680	43674	36179	0.828	0.25		
4.737	54666	44772	0.819	0.31		
4.768	80881	76072	0.941	0.46		
4.813	296547	280433	0.946	1.71	6 Aroclor 1248	BA
4.848	155259	143885	0.927	0.89		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.879	588264	393074	0.668	3.40	6 Aroclor 1248
4.956	116737	92348	0.791	0.67	
5.036	157715	135297	0.858	0.91	6 Aroclor 1248
5.102	261780	230849	0.882	1.51	
5.162	581327	502062	0.864	3.36	7 Aroclor 1254
5.213	539359	479531	0.889	3.12	
5.284	57475	58913	1.025	0.33	
5.308	63489	50005	0.788	0.36	
5.363	142912	128744	0.901	0.82	
5.406	274906	243700	0.886	1.59	7 Aroclor 1254
5.447	334815	260612	0.778	1.94	
5.510	496792	416555	0.838	2.87	7 Aroclor 1254
5.578	50320	48135	0.957	0.29	
5.603	49570	38006	0.767	0.28	
5.676	181238	170154	0.939	1.05	
5.712	52175	42628	0.817	0.30	
5.742	174440	131915	0.756	1.01	
5.790	978376	749708	0.766	5.66	
5.887	74240	49552	0.667	0.43	
5.931	84099	68732	0.817	0.48	
5.993	240711	222628	0.925	1.39	
6.025	316086	270245	0.855	1.83	7 Aroclor 1254
6.056	843917	723050	0.857	4.89	
6.168	123768	94064	0.760	0.71	
6.227	127639	69855	0.547	0.73	
6.299	1094771	898673	0.821	6.34	7 Aroclor 1254
6.333	118937	99983	0.841	0.68	
6.373	39245	35171	0.896	0.22	
6.433	93475	71406	0.764	0.54	
6.510	356226	315193	0.885	2.06	
6.535	197294	178217	0.903	1.14	
6.559	99259	91194	0.919	0.57	
6.605	42207	34050	0.807	0.24	
6.657	19739	15933	0.807	0.11	
6.717	49618	41192	0.830	0.28	
6.759	60597	50743	0.837	0.35	
6.802	141086	123523	0.876	0.81	
6.840	54840	39354	0.718	0.31	
6.911	14306	13105	0.916	0.08	
6.942	56918	49461	0.869	0.32	
7.003	319501	274590	0.859	1.85	8 Aroclor 1260
7.035	35431	33569	0.947	0.20	
7.250	165962	138339	0.834	0.96	8 Aroclor 1260
7.281	60335	44439	0.737	0.34	
7.389	129669	111131	0.857	0.75	
7.442	140936	122044	0.866	0.81	8 Aroclor 1260
7.554	12155	9219	0.758	0.07	
7.691	40764	34232	0.840	0.23	
7.726	33849	25615	0.757	0.19	
7.771	10553	8235	0.780	0.06	
7.802	32217	18815	0.584	0.18	
7.901	102020	81319	0.797	0.59	8 Aroclor 1260
8.046	13545	10561	0.780	0.07	
8.275	85458	75652	0.885	0.49	
8.571	2162349	1853965	0.857	12.95	$ 12 Decachlorobiphenyl
	17256353	14736680		100.000	

Total unknown % area = 45

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218023.D
Lab Smp Id: 40157487019 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 20:14
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487019 x5,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 23
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.022	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	1895584	0.01537	38			
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			
4.260	4.261	-0.001	340830	0.14547	360	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	235568	0.05676	140	0.00- 20.00	69.12	BA
4.812	4.812	0.000	296546	0.14608	360	0.00- 20.00	87.01	BA
4.878	4.879	-0.001	588263	0.11678	290	0.00- 20.00	172.60	BA
5.036	5.038	-0.002	157715	0.04395	110	0.00- 20.00	46.27	BA
Average of Peak Concentrations =					250			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	581326	0.11104	280	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	274906	0.06392	160	0.00- 20.00	47.29	BA
5.510	5.510	0.000	496792	0.06397	160	0.00- 20.00	85.46	BA
6.024	6.027	-0.003	316085	0.06491	160	0.00- 20.00	54.37	BA
6.299	6.299	0.000	1094771	0.16824	420	0.00- 20.00	188.32	BA
Average of Peak Concentrations =					240			
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	319501	0.03190	80	0.00- 20.00	32.37	CO
7.250	7.251	-0.001	165961	0.03472	87	0.00- 20.00	15.16	CO
7.441	7.443	-0.002	140936	0.04835	120	0.00- 20.00	12.87	CO
7.900	7.901	-0.001	102020	0.03866	96	0.00- 20.00	9.32	CO
Average of Peak Concentrations =					96			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	2162349	0.01974	49			

QC Flag Legend

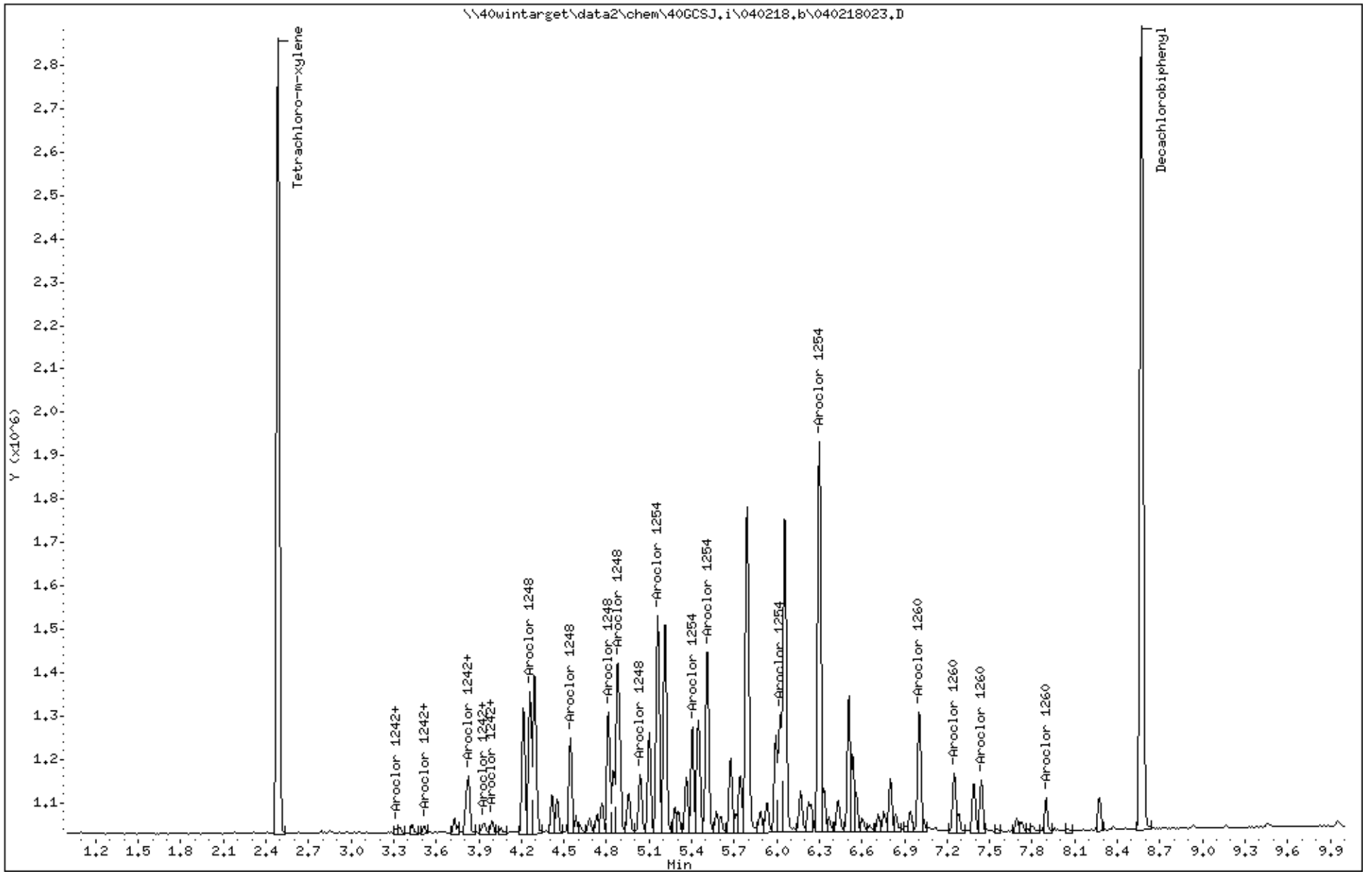
M - Compound response manually integrated.

Review Codes Legend

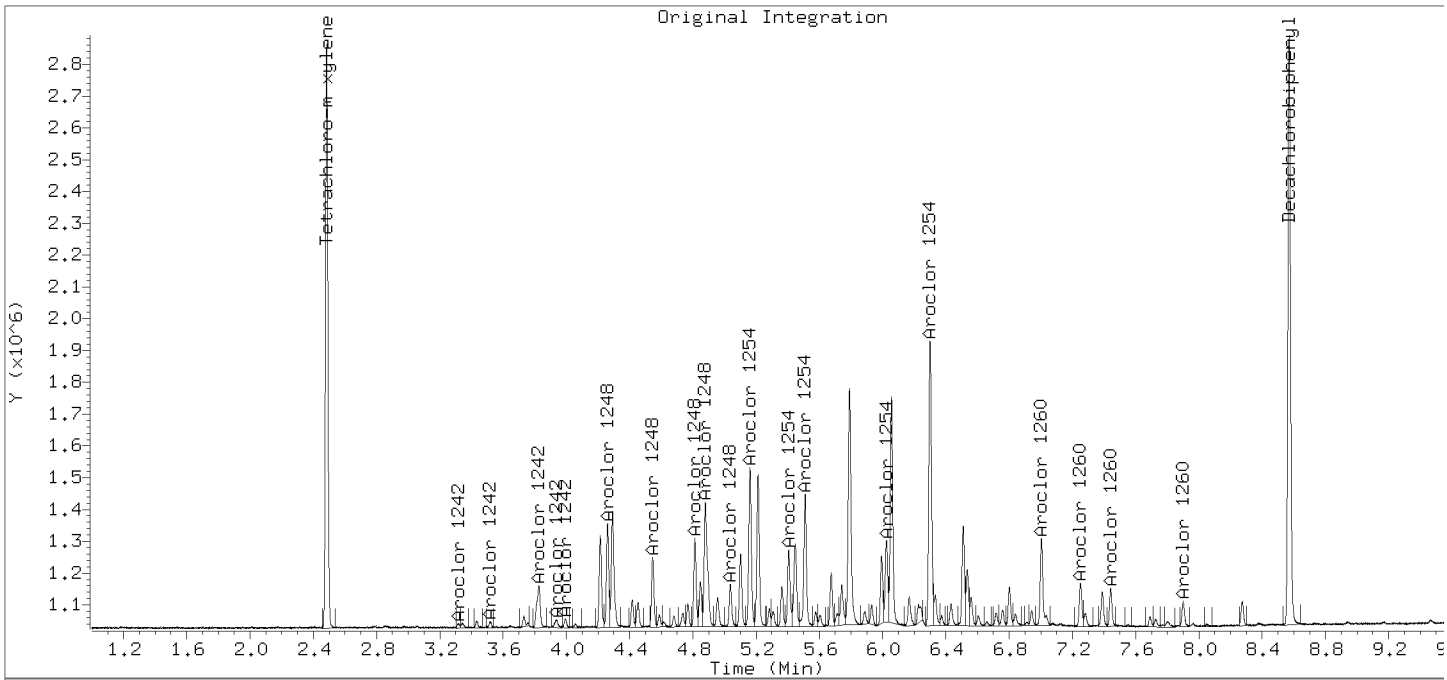
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

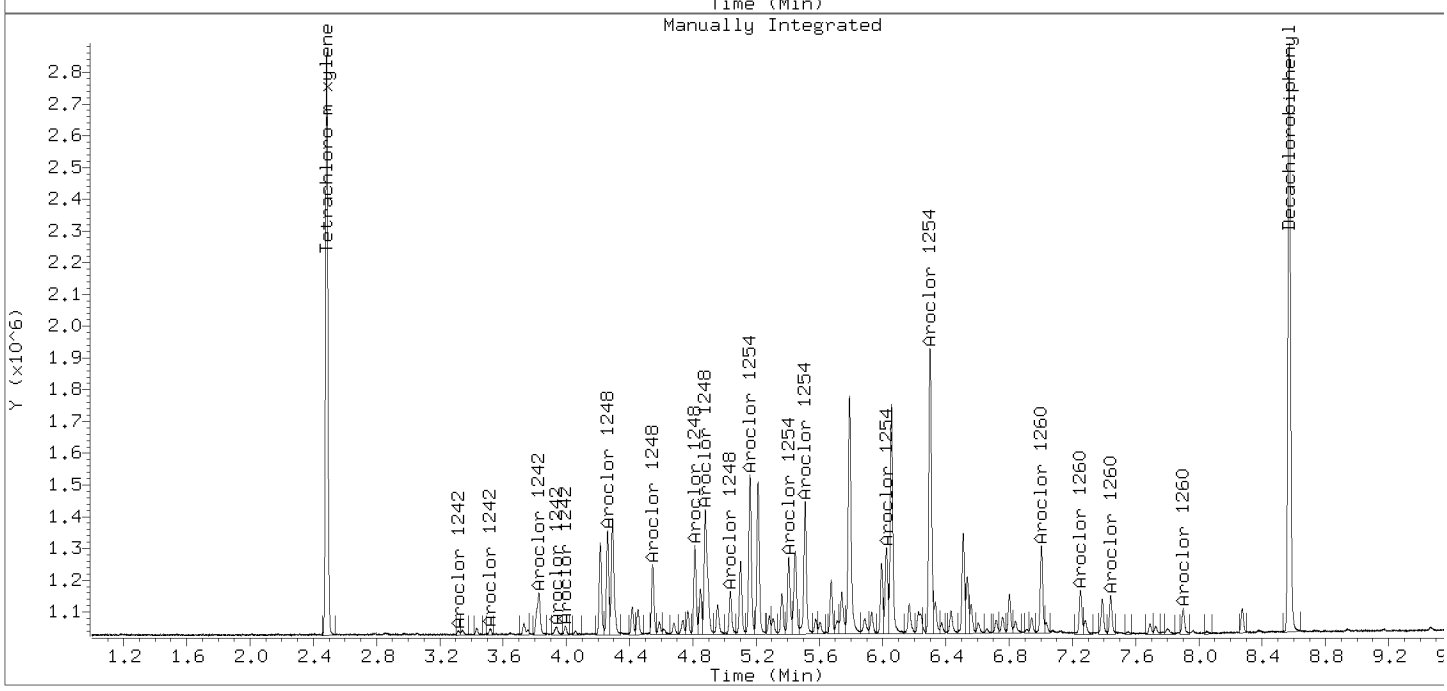
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218023.D
Date : 02-APR-2018 20:14
Client ID: SW3-170614-01-LMB-0
Sample Info: 40157487019 x5,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 20:14 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487019





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	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	338693	340830	BA
Aroclor 1248	338693	340830	BA
Aroclor 1248	338693	340830	BA
Aroclor 1248	338693	340830	BA
Aroclor 1248	338693	340830	BA
Aroclor 1254	576035	581326	BA
Aroclor 1254	576035	581326	BA
Aroclor 1254	576035	581326	BA
Aroclor 1254	576035	581326	BA
Aroclor 1254	576035	581326	BA
Aroclor 1260	1086048	0	CO
Aroclor 1260	1086048	0	CO
Aroclor 1260	1086048	0	CO
Aroclor 1260	1086048	0	CO
Aroclor 1260	1086048	0	CO
Tetrachloro-m-xylene	1895584	1895584	
Decachlorobiphenyl	2162349	2162349	

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SAMPLE NO.

SW3-170614-01-LMB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 09/27/2017 10:20
Matrix: Tissue SDG No.: 40157487
Date Extracted: 03/30/2018 07:22
Lab Sample ID: 40157487020
Date Analyzed: 04/02/2018 20:29
Lab File ID: 040218.B\040218024.D
Initial wt/vol: 10.0168 Final wt/vol: 5 mL Dilution: 10
Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	<114	U
11141-16-5	PCB-1232 (Aroclor 1232)	<114	U
53469-21-9	PCB-1242 (Aroclor 1242)	<114	U
12672-29-6	PCB-1248 (Aroclor 1248)	808	
11097-69-1	PCB-1254 (Aroclor 1254)	787	
11096-82-5	PCB-1260 (Aroclor 1260)	258	J
1336-36-3	PCB, Total	1850	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218024.D
Lab Smp Id: 40157487020 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 20:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487020 x10,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.017	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.484	904821	849844	0.939	3.96	$ 2 Tetrachloro-m-xylene	
3.316	14191	13952	0.983	0.06	3 Aroclor 1242	BA
3.343	22270	18528	0.832	0.09		
3.431	31862	27089	0.850	0.13		
3.519	35850	28532	0.796	0.15	3 Aroclor 1242	BA
3.731	74850	54585	0.729	0.32		
3.814	106434	108328	1.018	0.46		
3.826	110324	114076	1.034	0.48	3 Aroclor 1242	BA
3.937	56728	41521	0.732	0.24	3 Aroclor 1242	BA
3.994	41107	37753	0.918	0.18	3 Aroclor 1242	BA
4.056	19878	18589	0.935	0.08		
4.214	600844	544208	0.906	2.63		
4.261	631224	607818	0.963	2.76	6 Aroclor 1248	BA
4.291	885409	749679	0.847	3.88		
4.417	120472	114135	0.947	0.52		
4.451	137515	125713	0.914	0.60		
4.546	407732	378581	0.929	1.78	6 Aroclor 1248	BA
4.588	116043	87413	0.753	0.50		
4.681	95742	87135	0.910	0.41		
4.735	114175	95101	0.833	0.50		
4.767	161569	147998	0.916	0.70		
4.812	377104	349942	0.928	1.65	6 Aroclor 1248	BA
4.848	226255	215884	0.954	0.99		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.880	920187	510957	0.555	4.03	6 Aroclor 1248
4.957	251336	215556	0.858	1.10	
5.037	262029	226039	0.863	1.14	6 Aroclor 1248
5.101	503511	461046	0.916	2.20	
5.160	943513	809700	0.858	4.13	7 Aroclor 1254
5.212	789867	703657	0.891	3.46	
5.283	110495	100823	0.912	0.48	
5.305	142440	122547	0.860	0.62	
5.362	235854	207849	0.881	1.03	
5.406	536824	469572	0.875	2.35	7 Aroclor 1254
5.447	483435	386825	0.800	2.11	
5.510	932681	785741	0.842	4.08	7 Aroclor 1254
5.577	78375	70181	0.895	0.34	
5.604	87064	74421	0.855	0.38	
5.674	330435	304707	0.922	1.44	
5.715	110944	78726	0.710	0.48	
5.742	270362	209496	0.775	1.18	
5.791	1515574	1124098	0.742	6.64	
5.885	117128	87755	0.749	0.51	
5.930	155438	124226	0.799	0.68	
5.993	362978	321734	0.886	1.59	
6.024	534349	467242	0.874	2.34	7 Aroclor 1254
6.055	1100829	924812	0.840	4.82	
6.168	181925	149722	0.823	0.79	
6.226	185108	101293	0.547	0.81	
6.300	1651441	1319726	0.799	7.67	7 Aroclor 1254
6.331	148468	135441	0.912	0.65	
6.373	69806	54676	0.783	0.30	
6.431	146953	122311	0.832	0.64	
6.509	527024	484638	0.920	2.31	
6.535	280200	248111	0.885	1.22	
6.560	119574	111524	0.933	0.52	
6.604	56384	43873	0.778	0.24	
6.660	25823	22192	0.859	0.11	
6.718	100932	82473	0.817	0.44	
6.758	94528	86930	0.920	0.41	
6.801	195235	173522	0.889	0.85	
6.840	81655	57854	0.709	0.35	
6.913	15029	16484	1.097	0.06	
6.944	83122	74181	0.892	0.36	
7.004	421404	384274	0.912	1.84	8 Aroclor 1260
7.033	42071	46876	1.114	0.18	
7.251	213990	189378	0.885	0.93	8 Aroclor 1260
7.280	79397	59585	0.750	0.34	
7.389	198351	168084	0.847	0.86	
7.441	196532	170190	0.866	0.86	8 Aroclor 1260
7.548	13432	11189	0.833	0.05	
7.690	53892	44429	0.824	0.23	
7.724	37715	28226	0.748	0.16	
7.803	35129	19009	0.541	0.15	
7.900	138368	113542	0.821	0.60	8 Aroclor 1260
7.963	21530	15161	0.704	0.09	
8.051	19915	14179	0.712	0.08	
8.274	115005	99602	0.866	0.50	
8.570	1177371	1009214	0.857	5.16	$ 12 Decachlorobiphenyl
9.164	10906	8979	0.823	0.04	
	22806265	19270982		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218024.D
Lab Smp Id: 40157487020 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 20:29
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 40157487020 x10,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 24
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	10.017	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	904821	0.00734	37			
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			
4.260	4.261	-0.001	631223	0.26941	1300	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	407732	0.09824	490	0.00- 20.00	64.59	BA
4.812	4.812	0.000	377104	0.18576	930	0.00- 20.00	59.74	BA
4.879	4.879	0.000	920187	0.18267	910	0.00- 20.00	145.78	BA
5.036	5.038	-0.002	262029	0.07302	360	0.00- 20.00	41.51	BA
Average of Peak Concentrations =					810			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	943513	0.18022	900	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	536823	0.12481	620	0.00- 20.00	56.90	BA
5.509	5.510	-0.001	932680	0.12010	600	0.00- 20.00	98.85	BA
6.023	6.027	-0.004	534348	0.10973	550	0.00- 20.00	56.63	BA
6.300	6.299	0.001	1651440	0.25379	1300	0.00- 20.00	175.03	BA
Average of Peak Concentrations =					790			
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	421404	0.04208	210	0.00- 20.00	28.02	CO
7.251	7.251	0.000	213989	0.04477	220	0.00- 20.00	12.96	CO
7.440	7.443	-0.003	196532	0.06742	340	0.00- 20.00	11.90	CO
7.900	7.901	-0.001	138368	0.05244	260	0.00- 20.00	8.38	CO
Average of Peak Concentrations =					260			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	1177371	0.01075	54			

QC Flag Legend

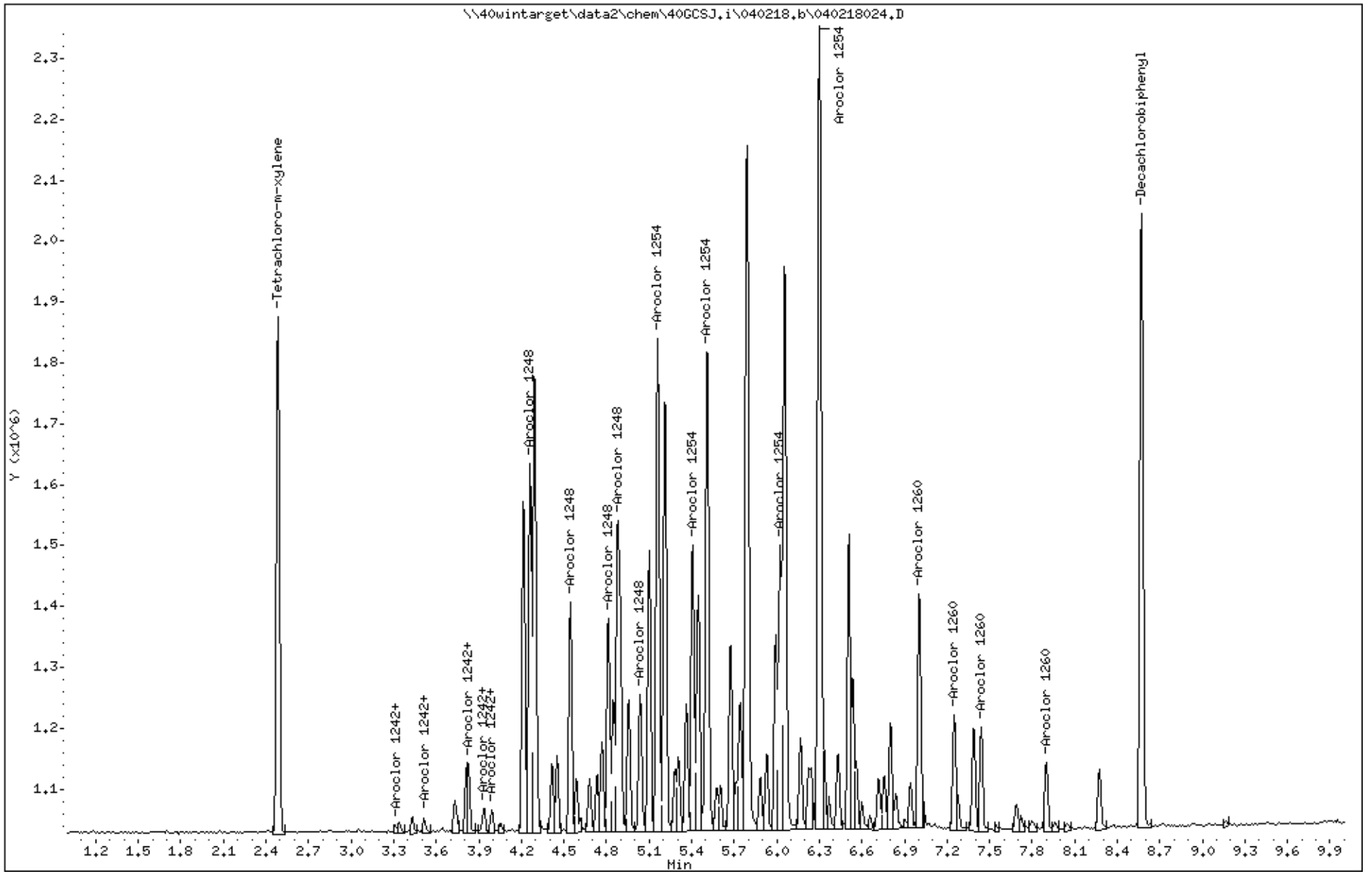
M - Compound response manually integrated.

Review Codes Legend

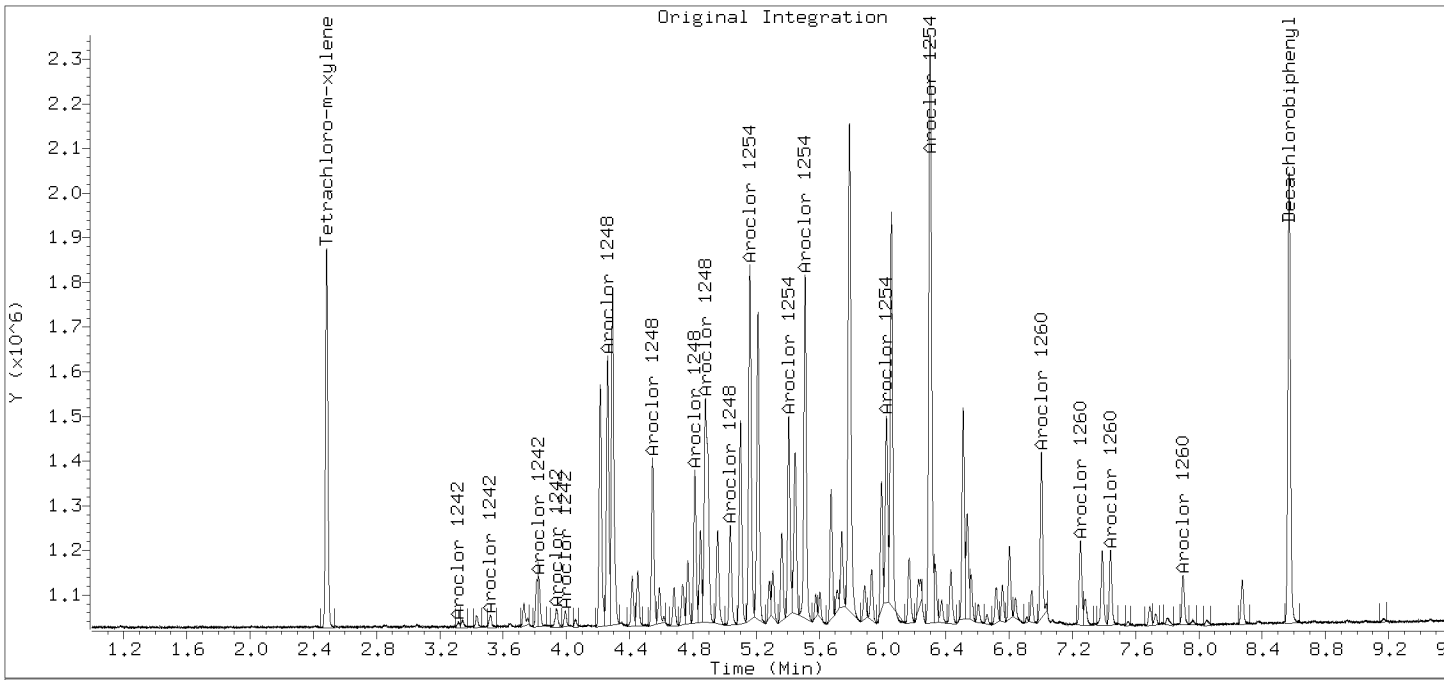
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

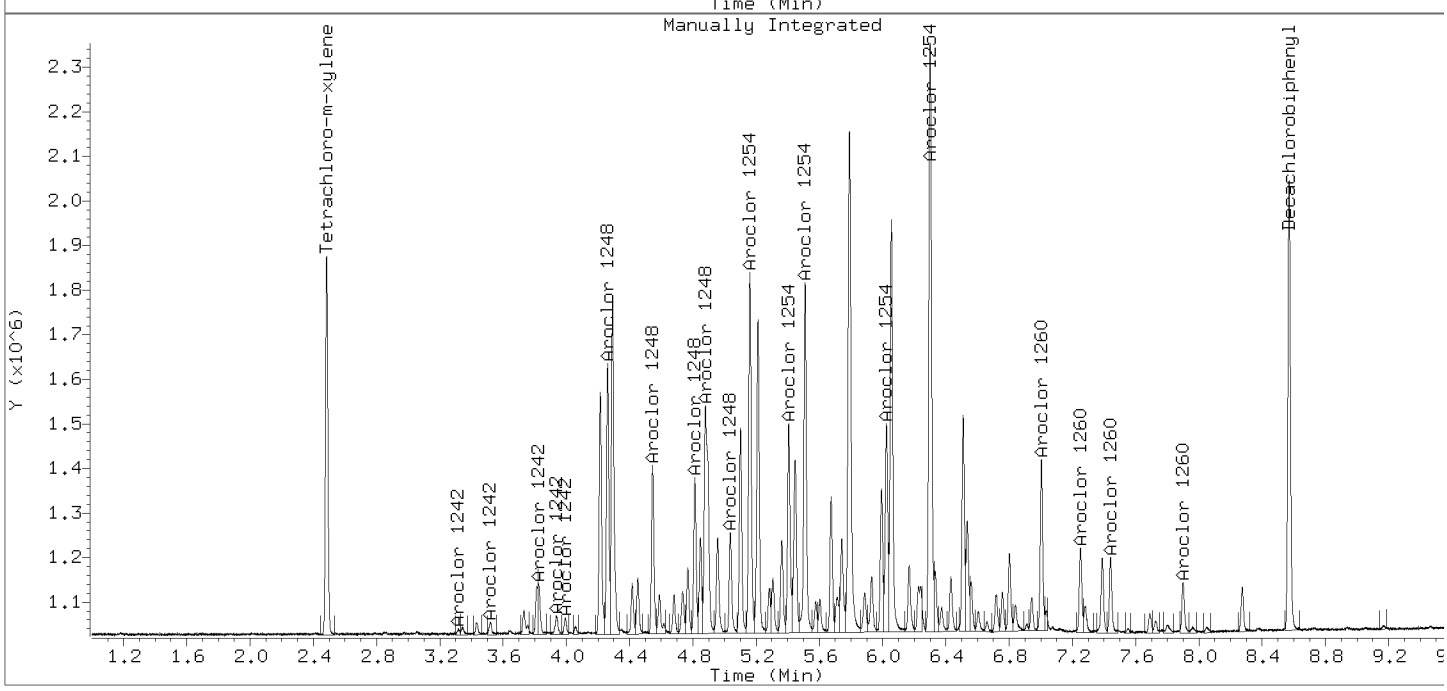
Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218024.D
Date : 02-APR-2018 20:29
Client ID: SW3-170614-01-LMB-0
Sample Info: 40157487020 x10,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 20:29 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 40157487020





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	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	622098	631223	BA
Aroclor 1248	622098	631223	BA
Aroclor 1248	622098	631223	BA
Aroclor 1248	622098	631223	BA
Aroclor 1248	622098	631223	BA
Aroclor 1254	897627	943513	BA
Aroclor 1254	897627	943513	BA
Aroclor 1254	897627	943513	BA
Aroclor 1254	897627	943513	BA
Aroclor 1254	897627	943513	BA
Aroclor 1260	1639842	0	CO
Aroclor 1260	1639842	0	CO
Aroclor 1260	1639842	0	CO
Aroclor 1260	1639842	0	CO
Aroclor 1260	1639842	0	CO
Tetrachloro-m-xylene	904821	904821	
Decachlorobiphenyl	1177371	1177371	

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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.: 40157487

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.: 40157487

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.: 40157487

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

LAB FILE ID

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

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

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

PCB - FORM VI SVOA-4

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSJ GC Column: Col 1 SDG No.: 40157487

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.: 40157487

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.: 40157487

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.: 40157487

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

LAB FILE ID

CAL3S = 030618.B\030618008.D

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

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

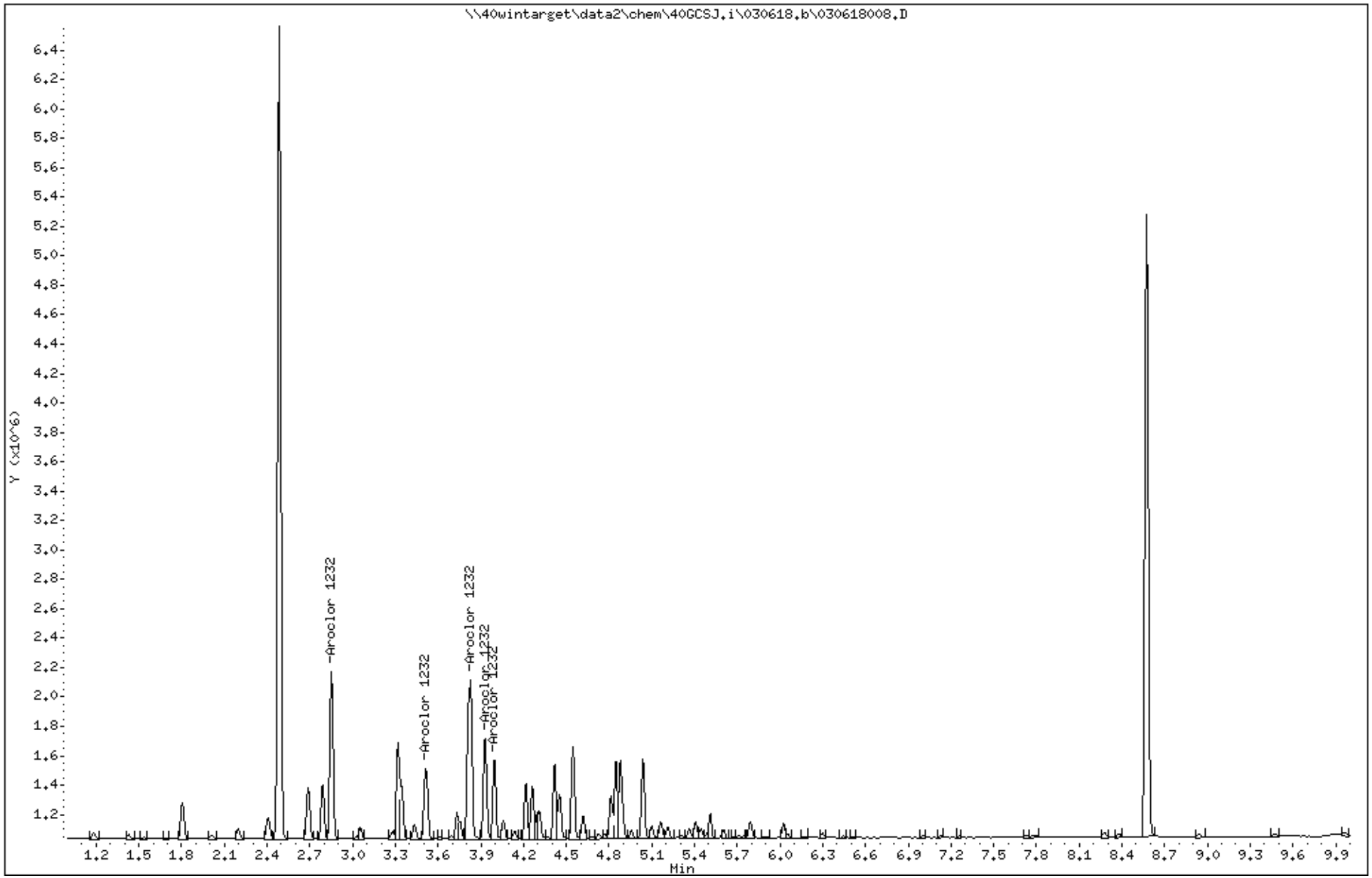
M - Compound response manually integrated.

Review Codes Legend

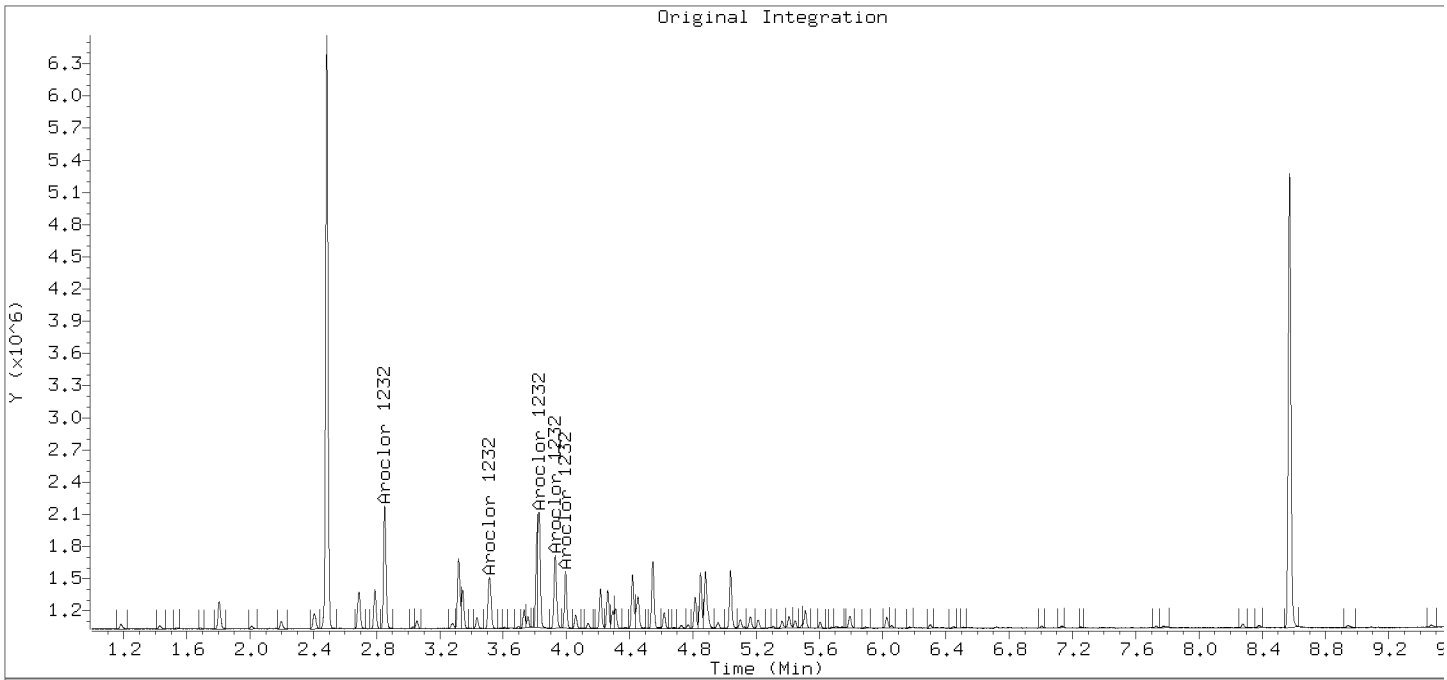
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

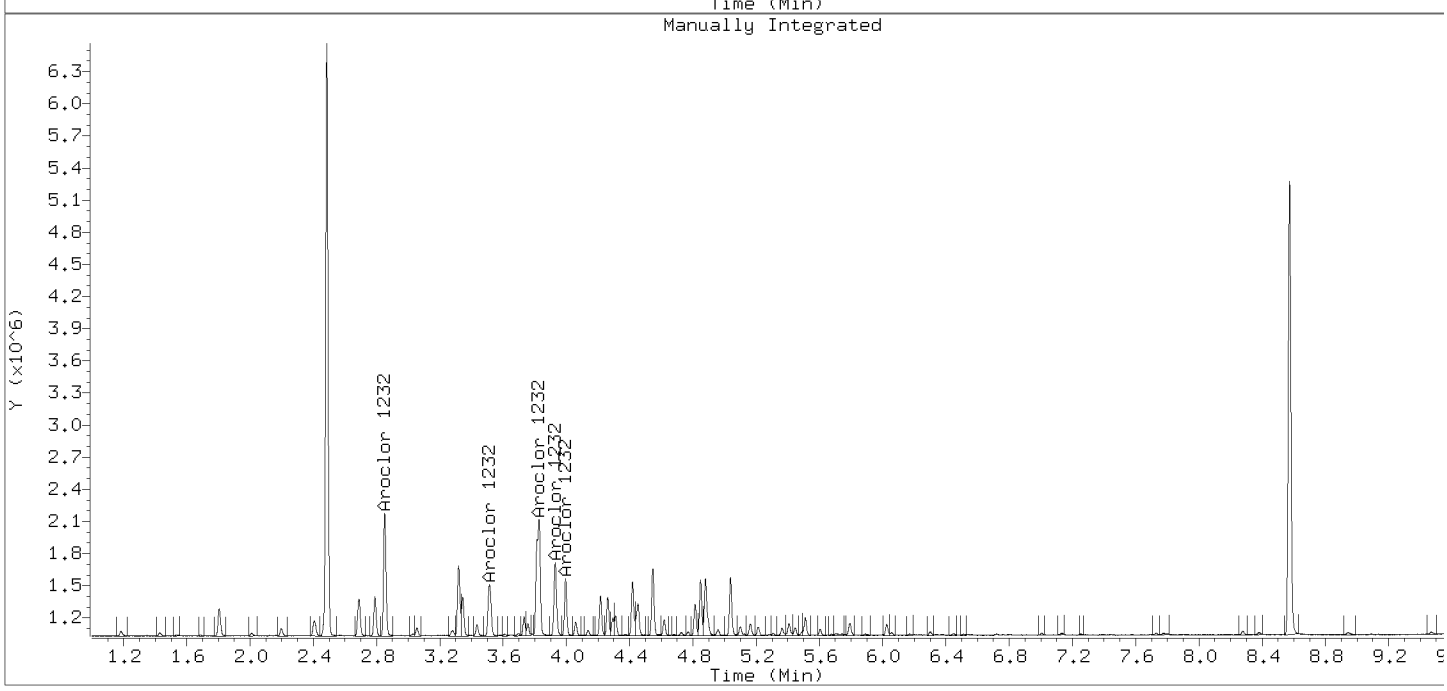
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618008.D
Date : 06-MAR-2018 11:50
Client ID: 1232-CAL3S
Sample Info: 1232-CAL3S, 185539:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

Total unknown % area = 77

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

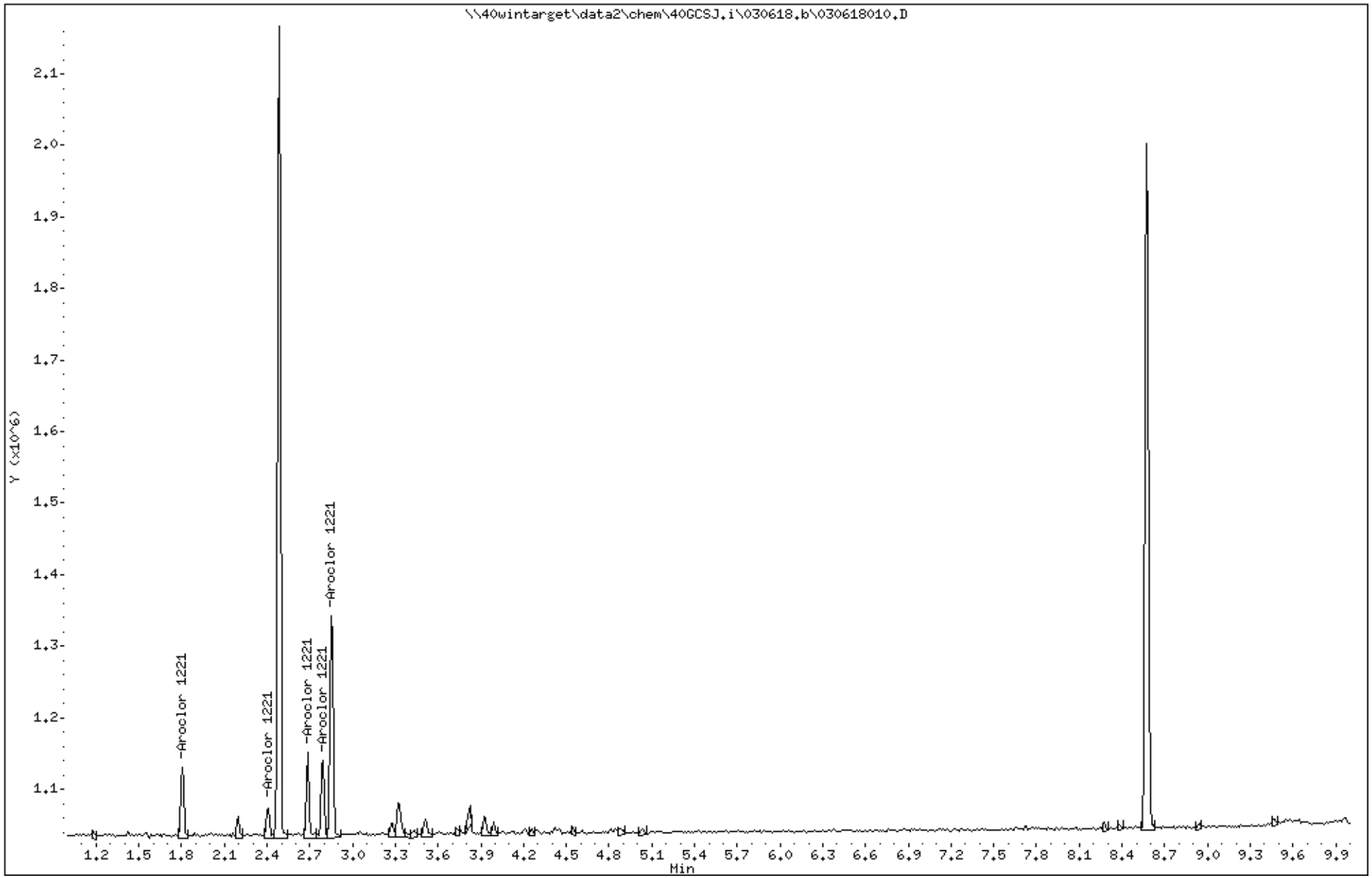
M - Compound response manually integrated.

Review Codes Legend

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

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

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



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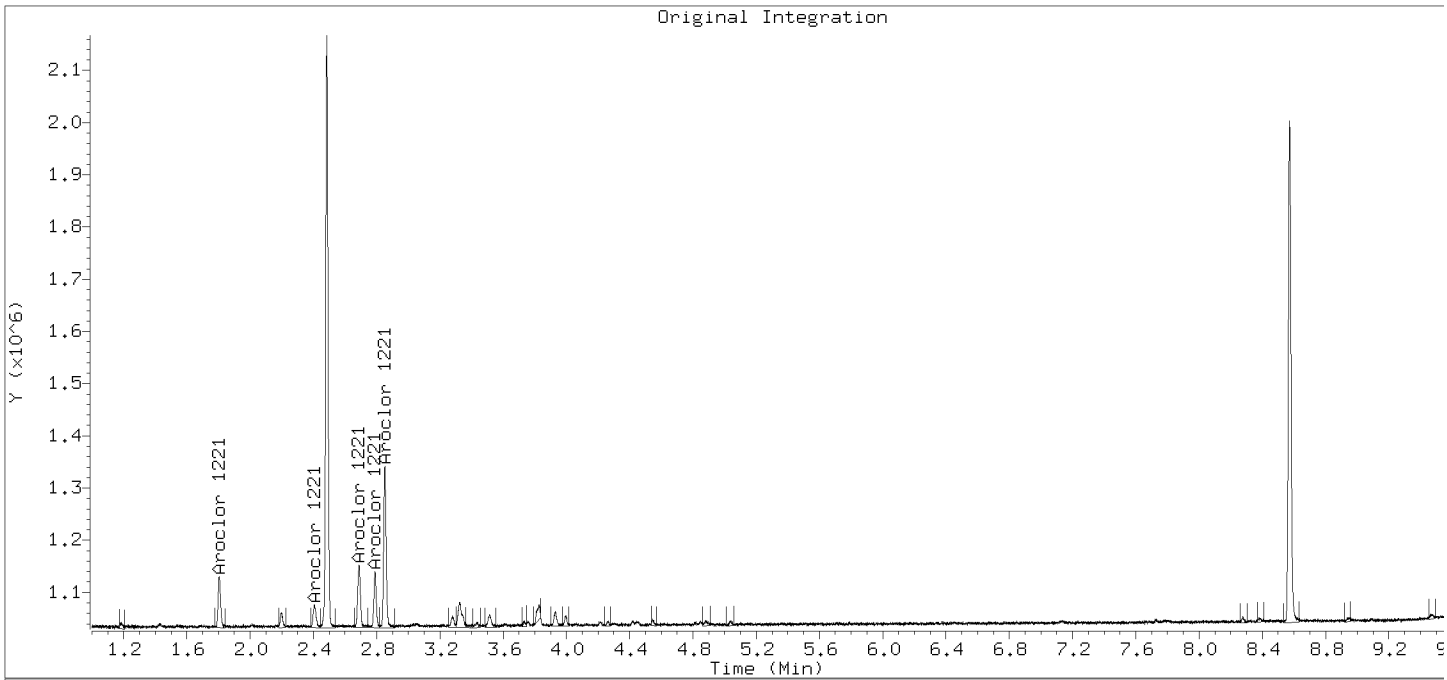
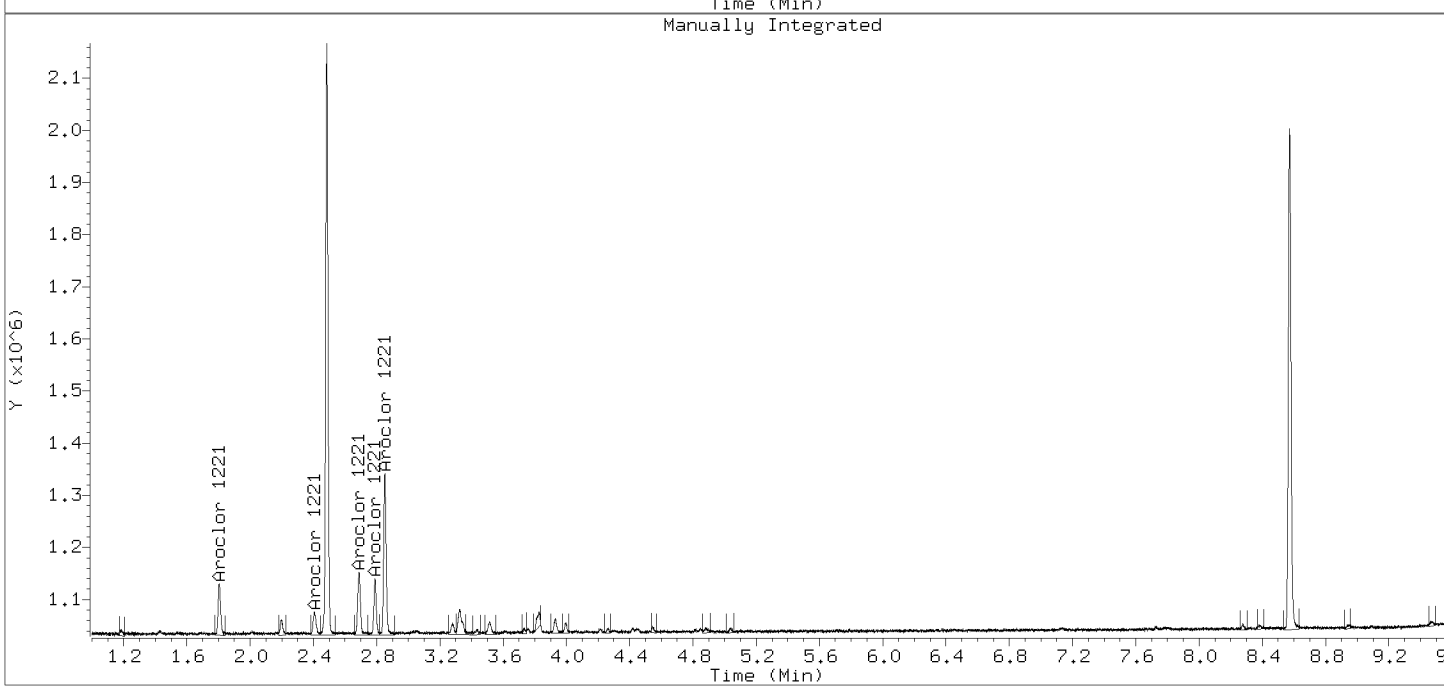
Injection Date: 06-MAR-2018 12:07 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1221-CAL1F





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

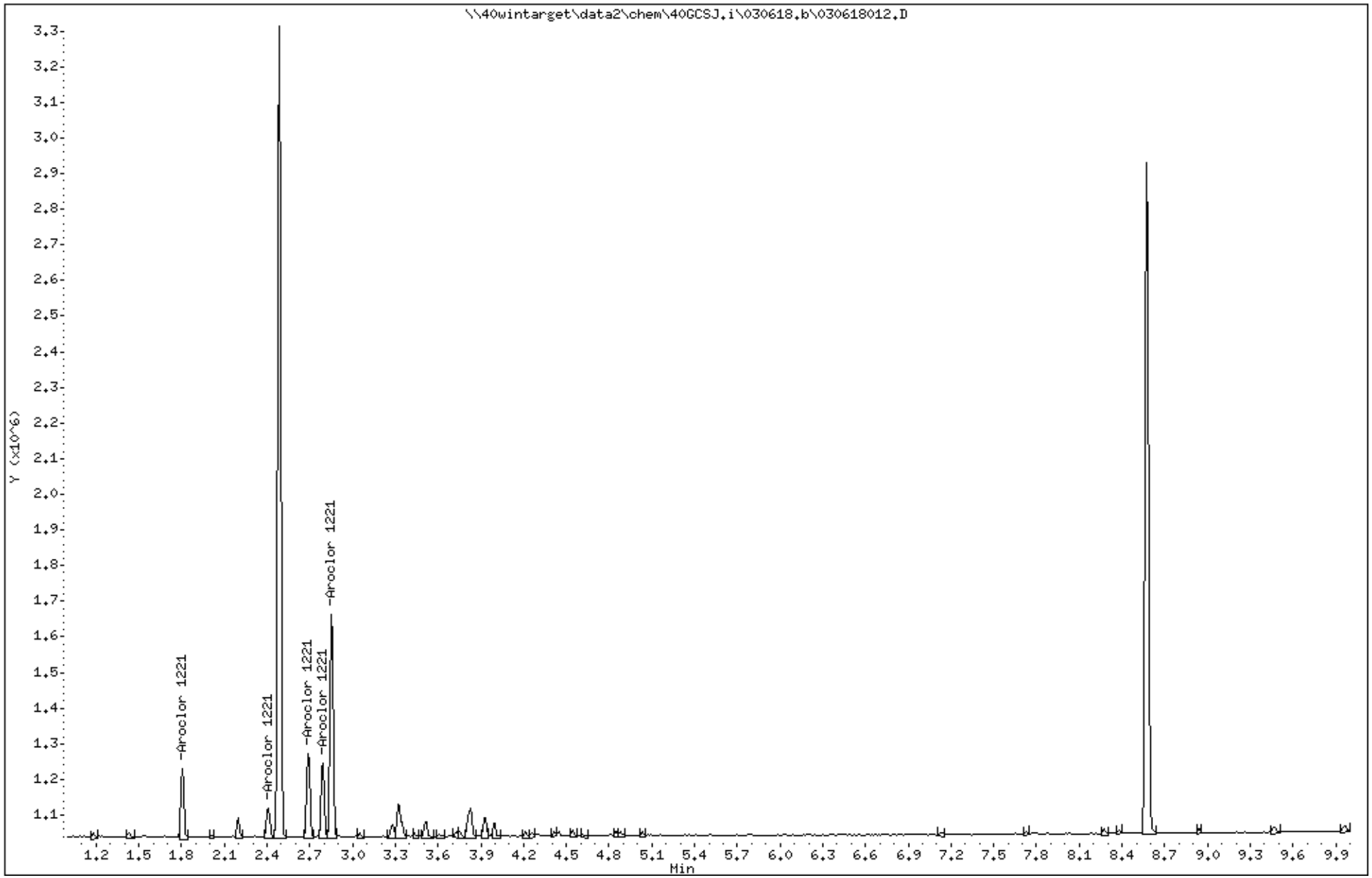
M - Compound response manually integrated.

Review Codes Legend

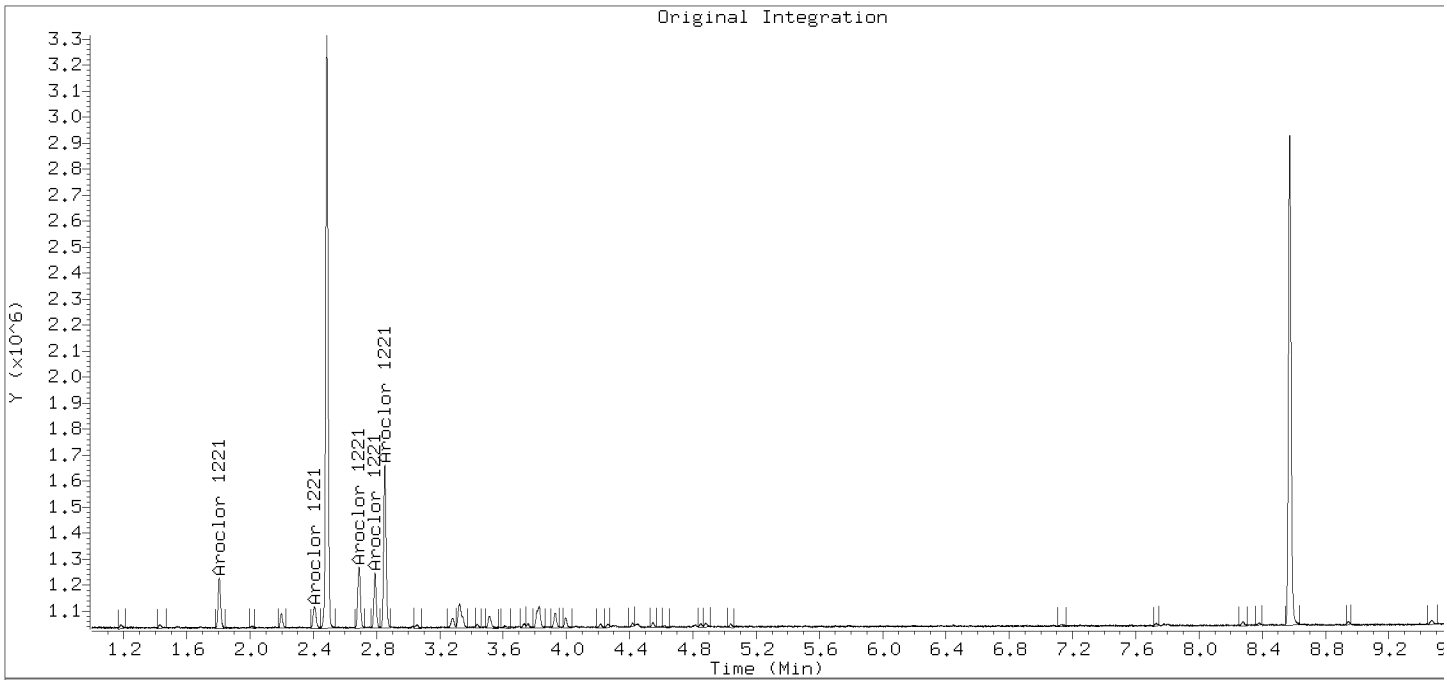
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

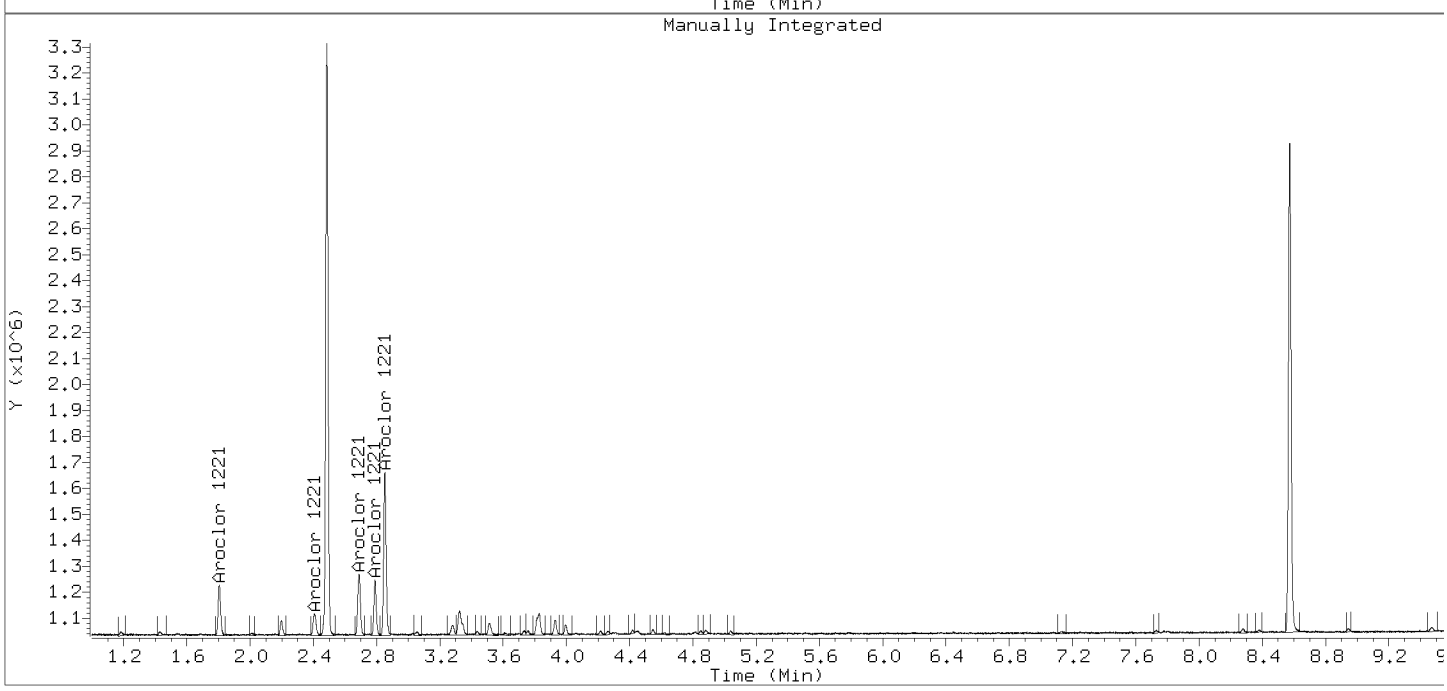
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618012.D
Date : 06-MAR-2018 12:23
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:39

Client ID: 1221-CAL3F

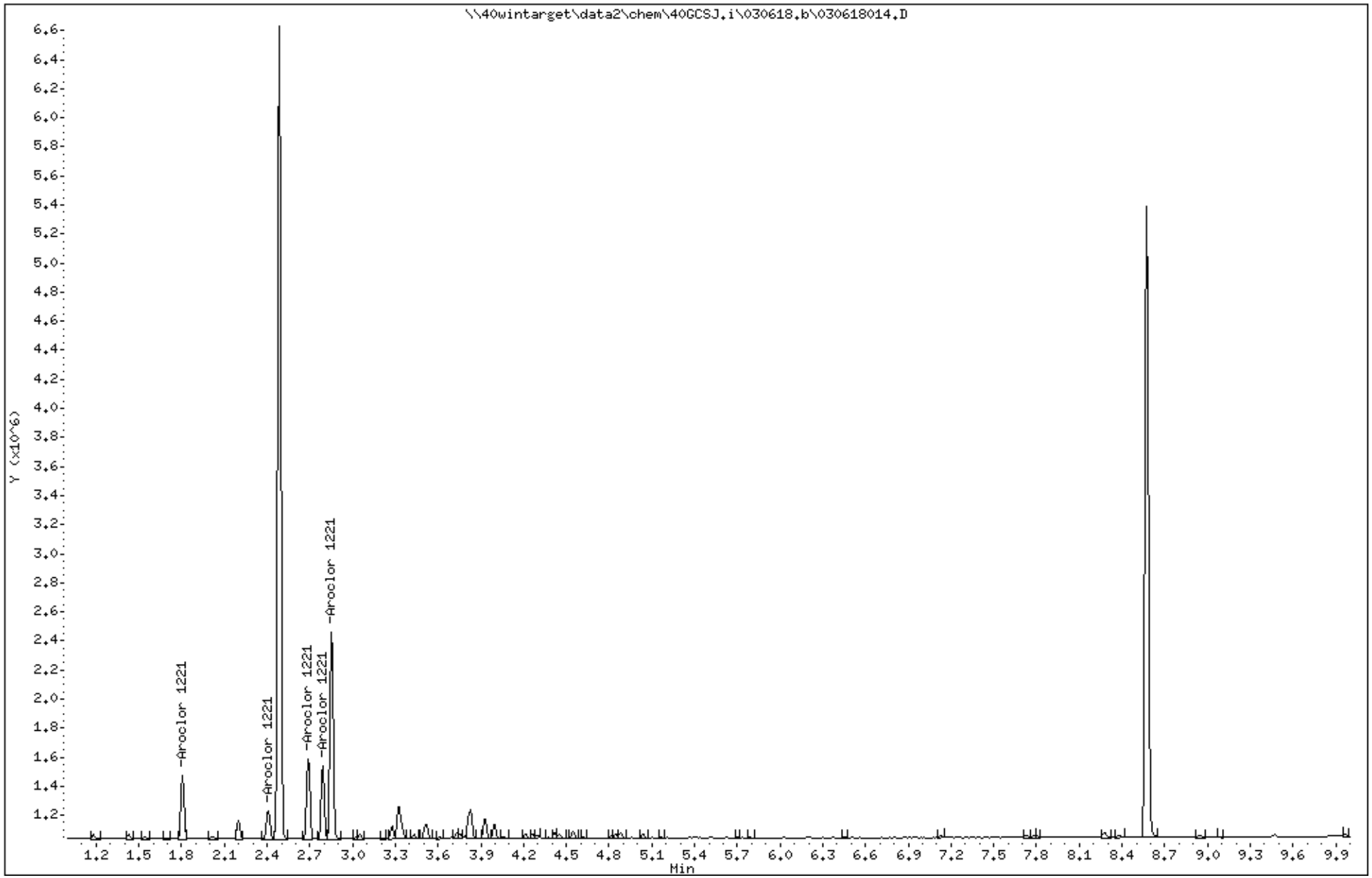
Instrument: 40GCSJ.i

Sample Info: 1221-CAL3F, 185538:1

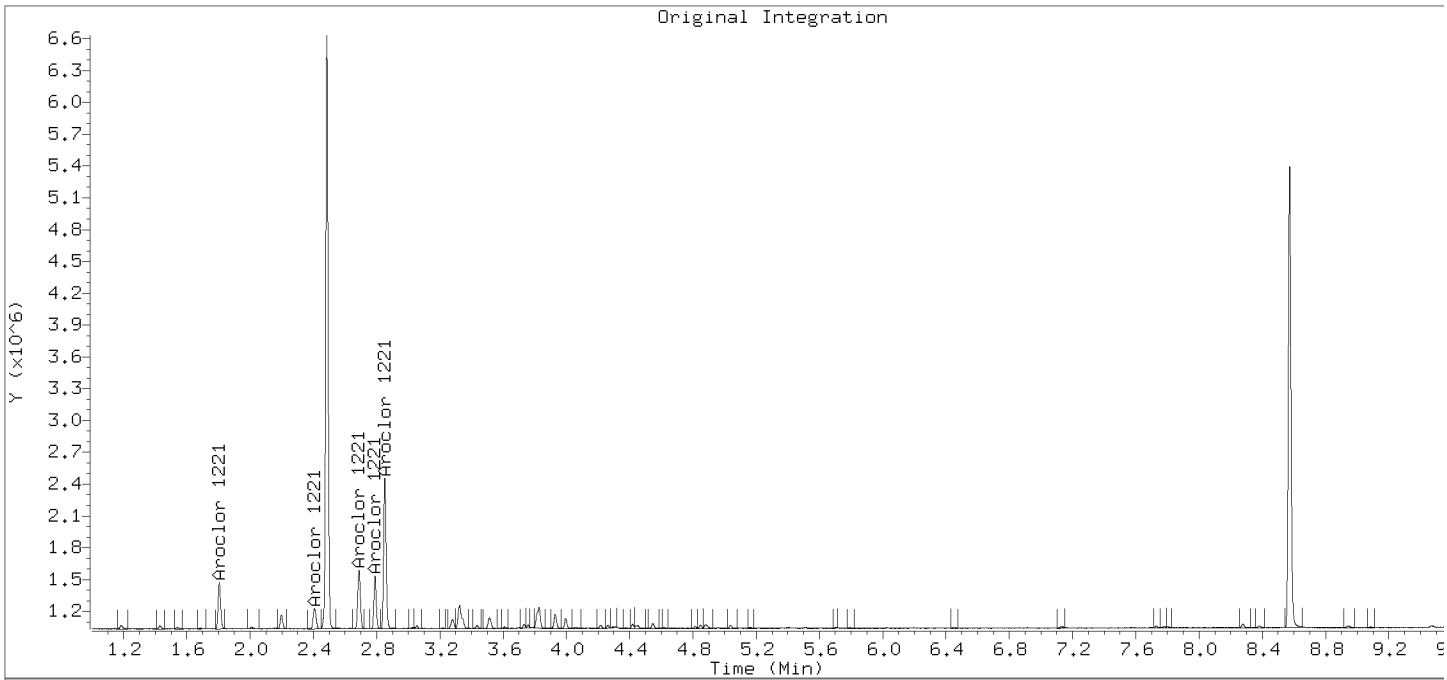
Operator: BLM

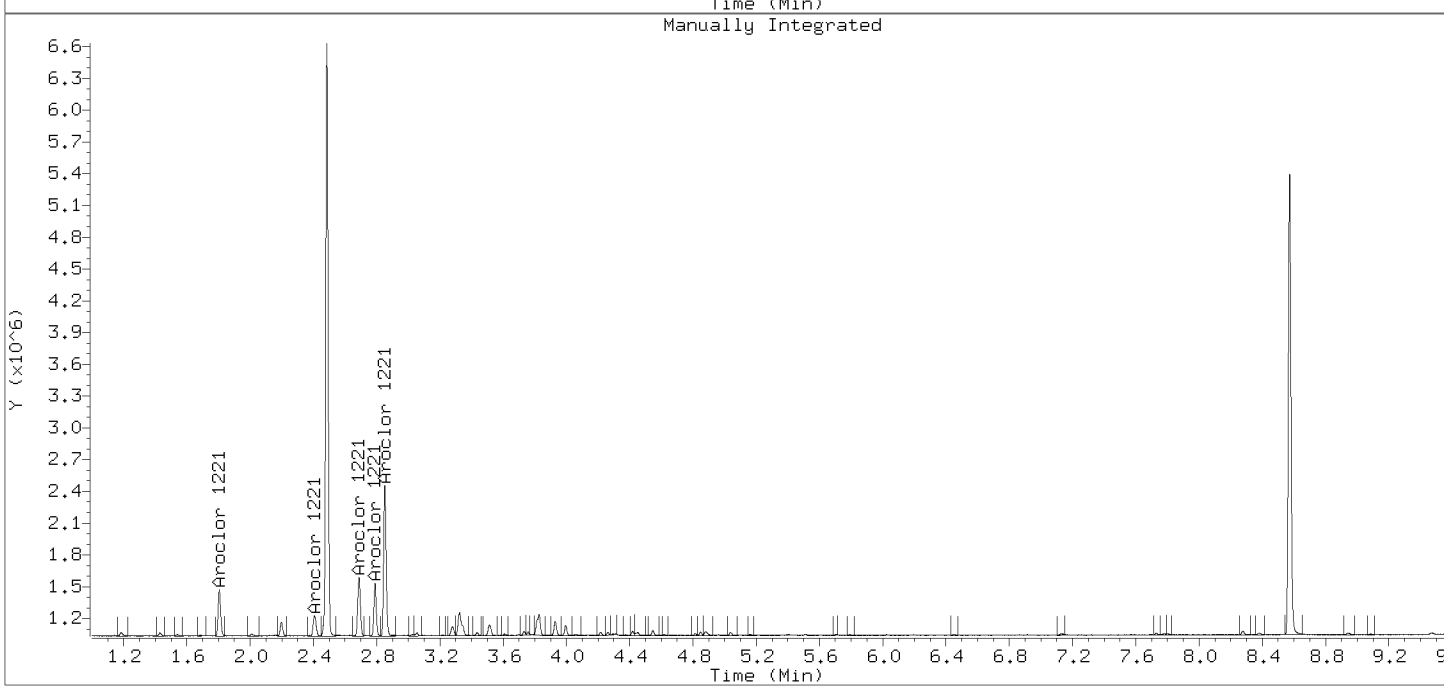
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 12:55

Client ID: 1221-CAL4F

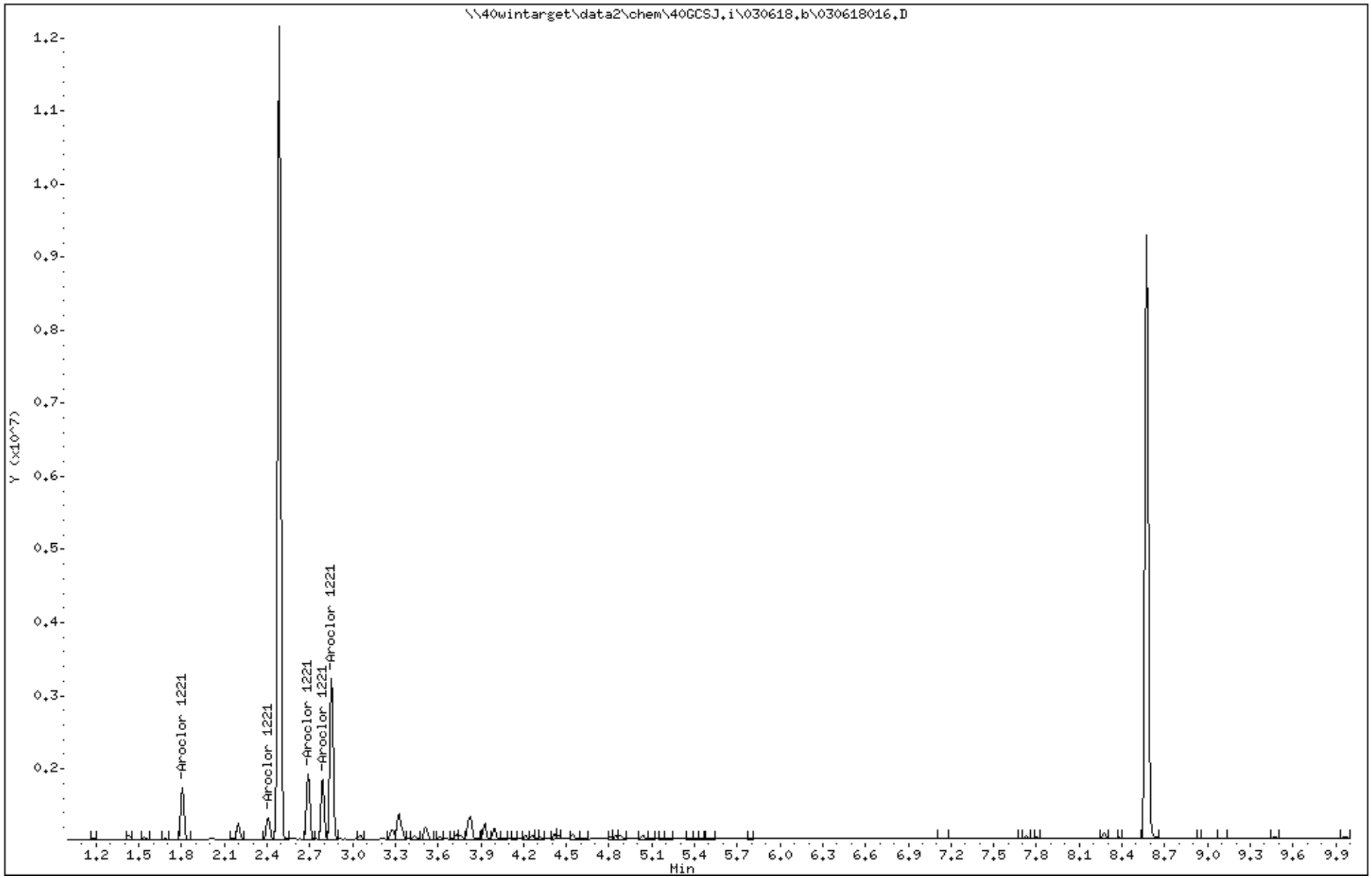
Instrument: 40GCSJ.i

Sample Info: 1221-CAL4F, 188140:1

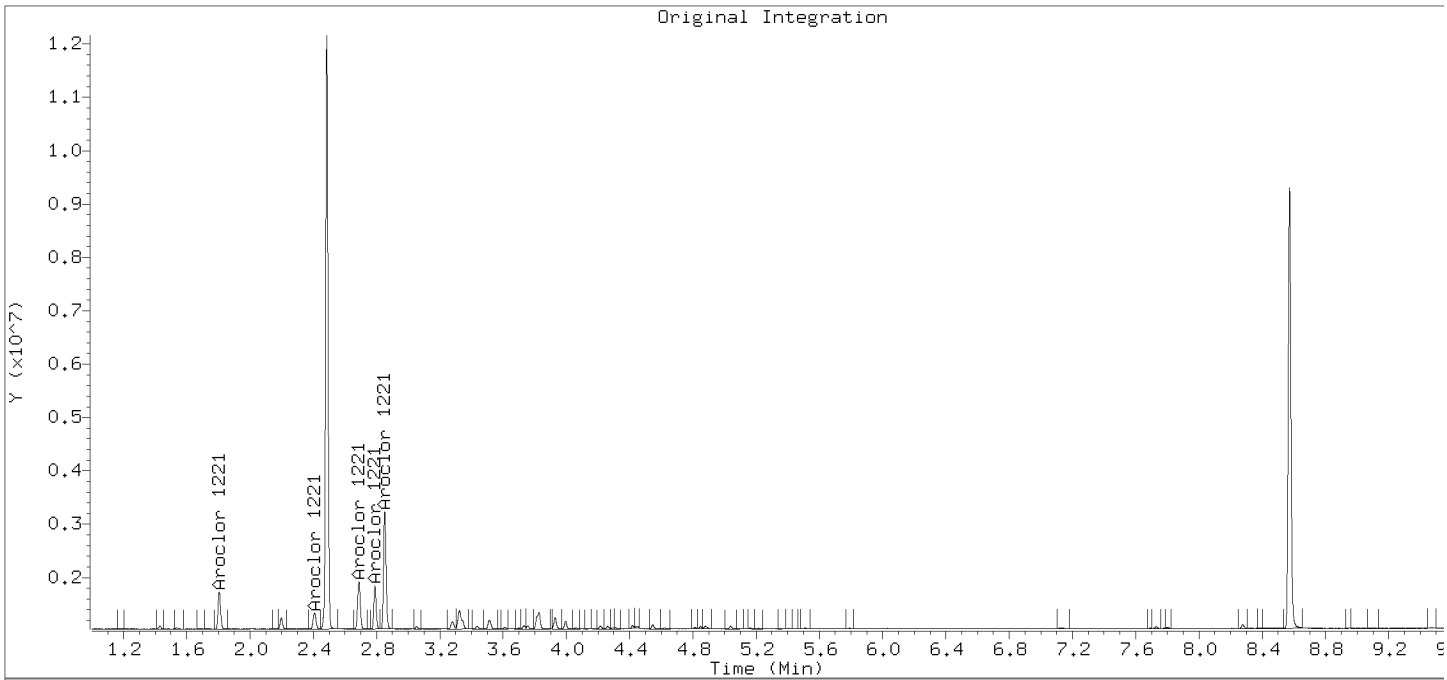
Operator: BLM

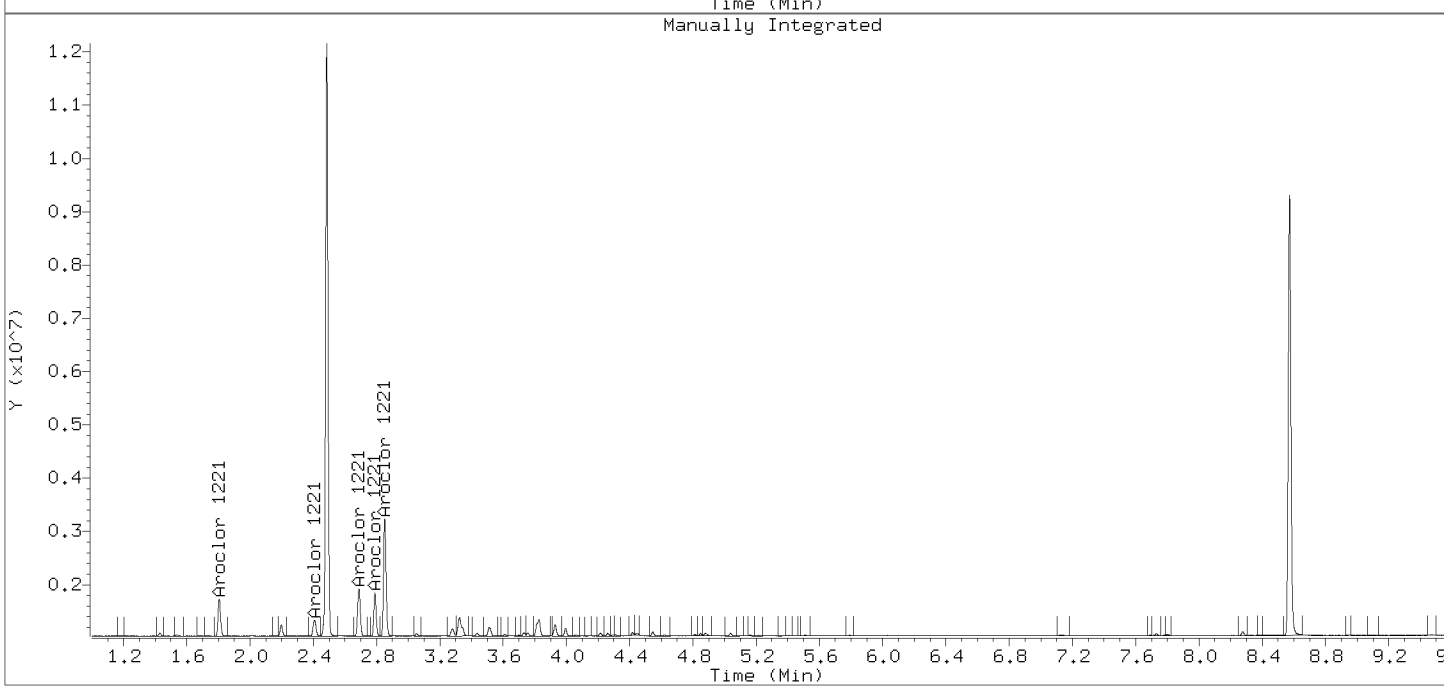
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 84

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

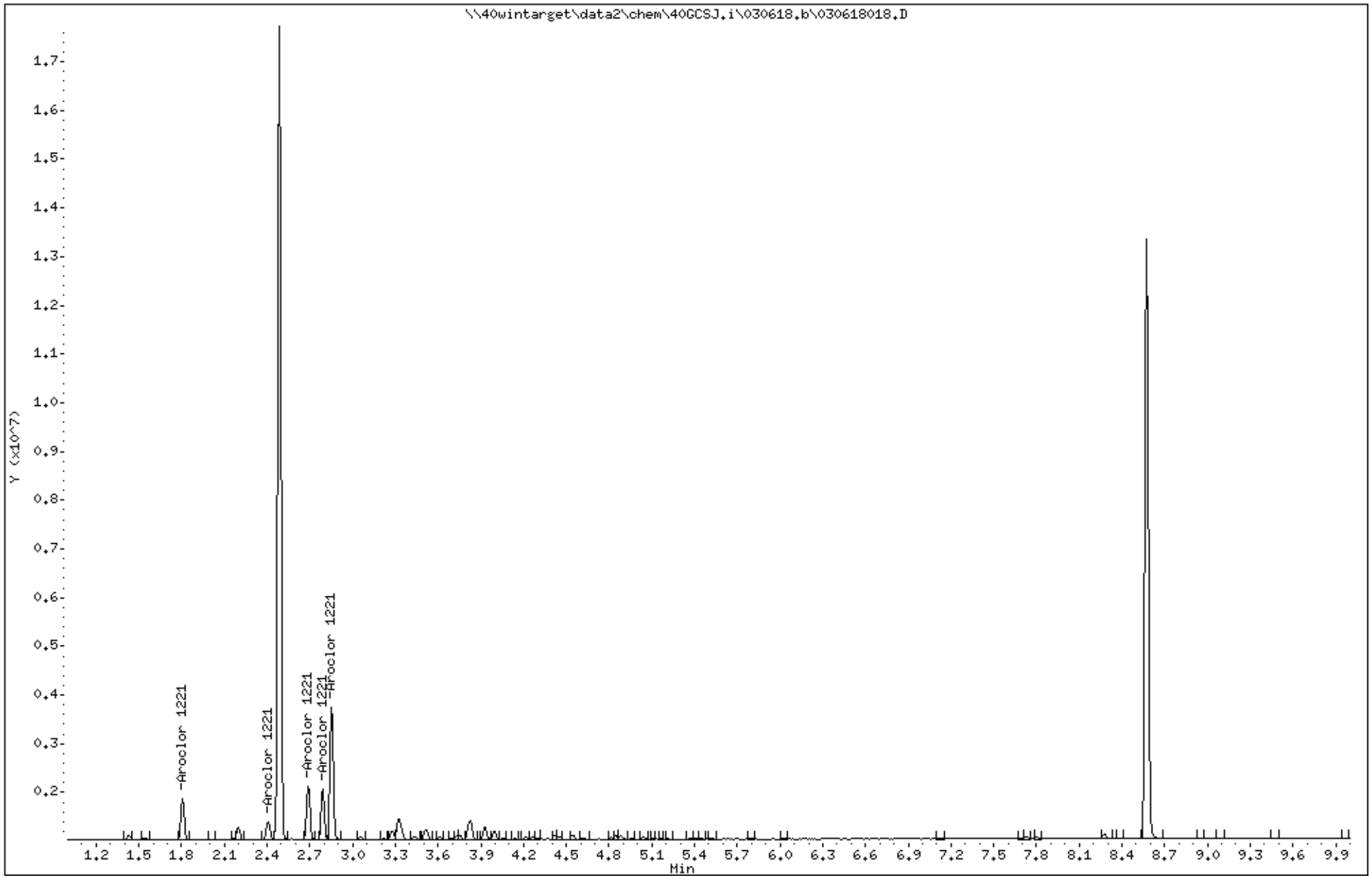
M - Compound response manually integrated.

Review Codes Legend

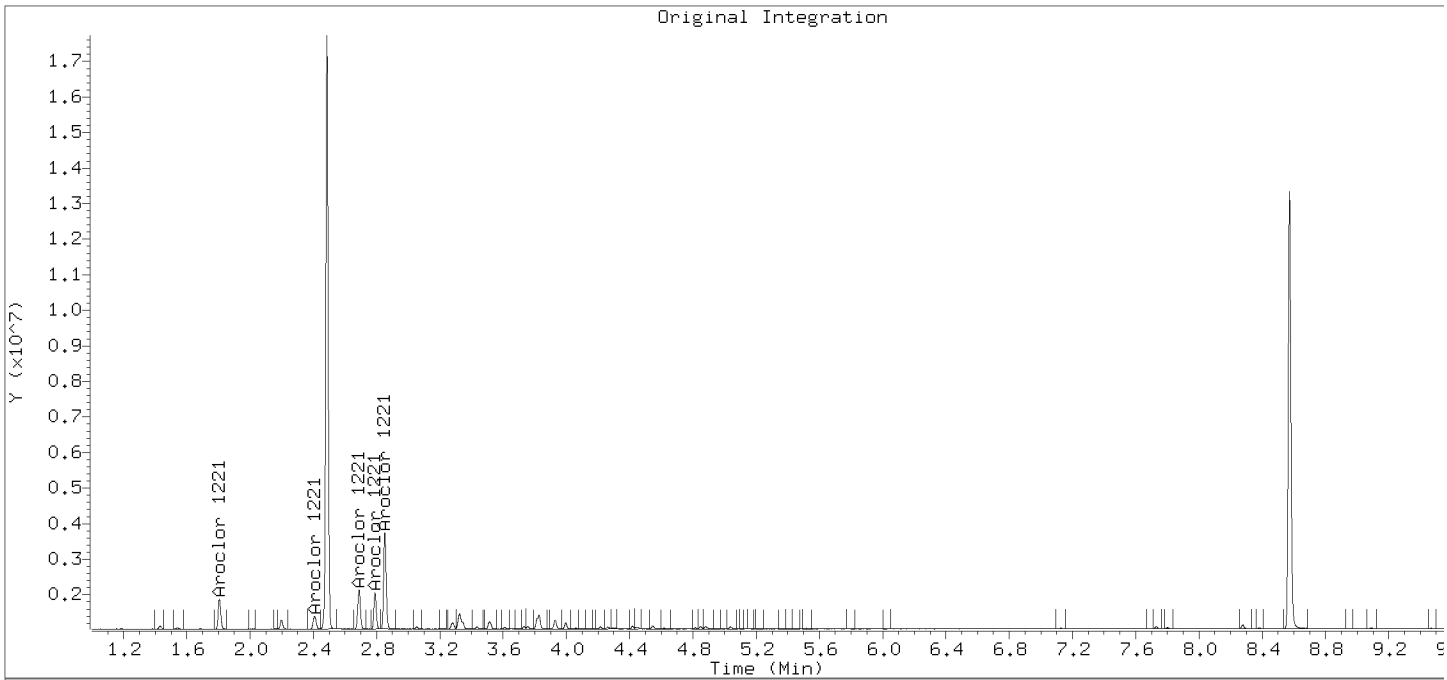
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

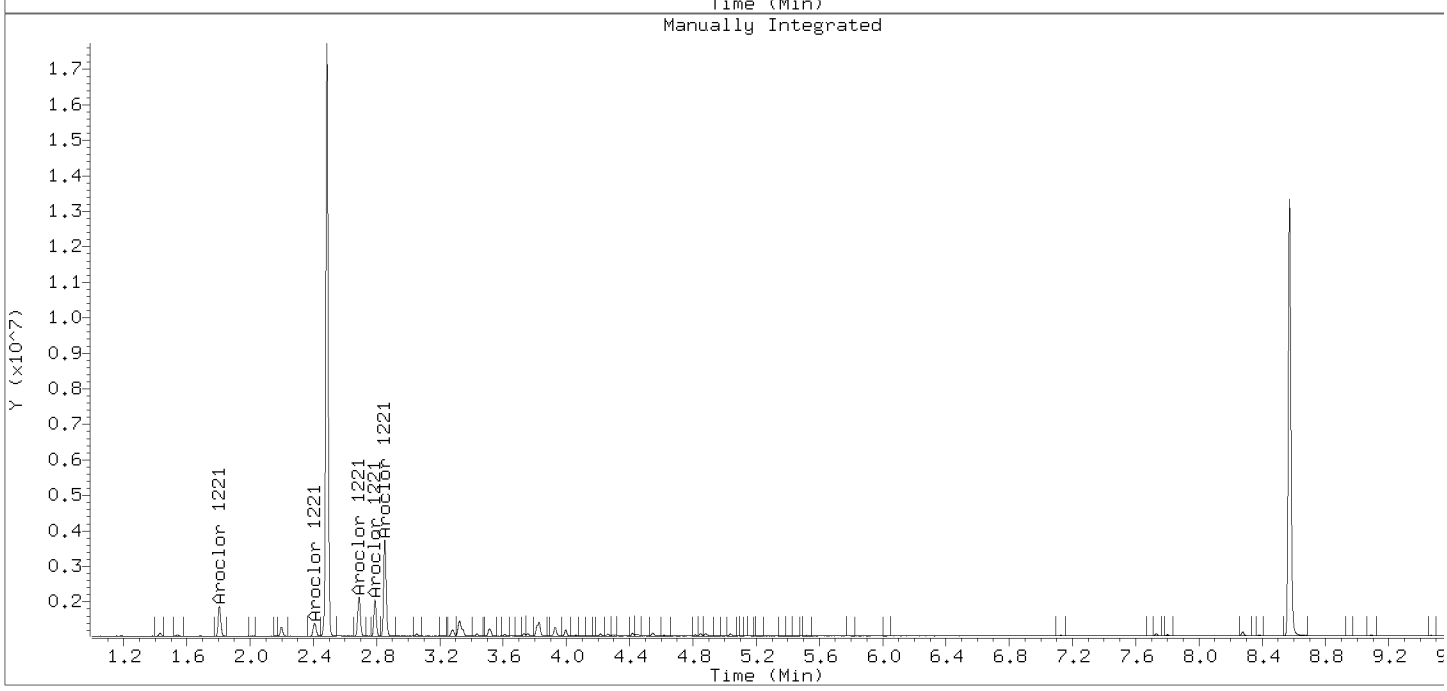
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618018.D
Date : 06-MAR-2018 13:11
Client ID: 1221-CAL5F
Sample Info: 1221-CAL5F, 188141:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

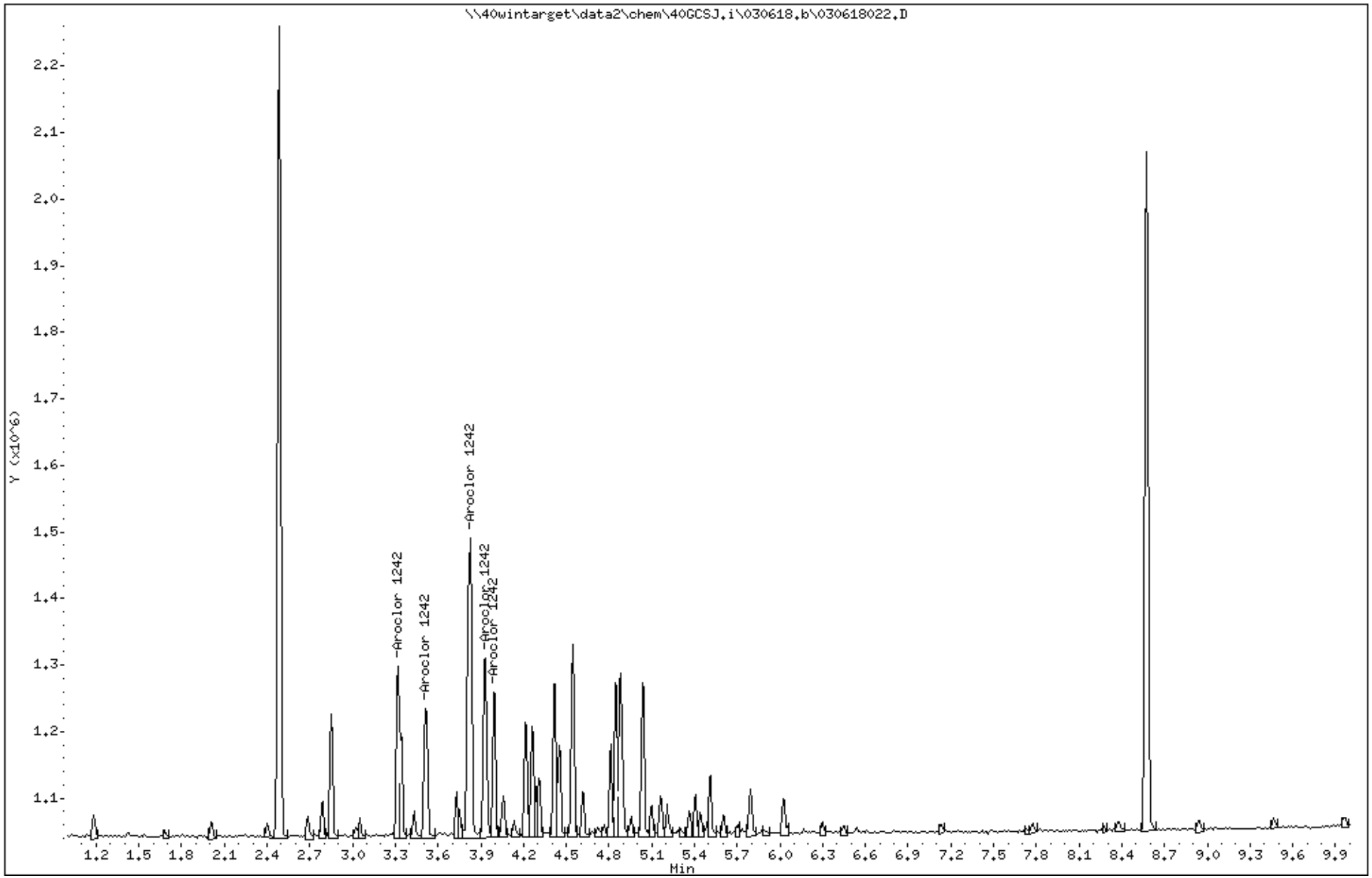
M - Compound response manually integrated.

Review Codes Legend

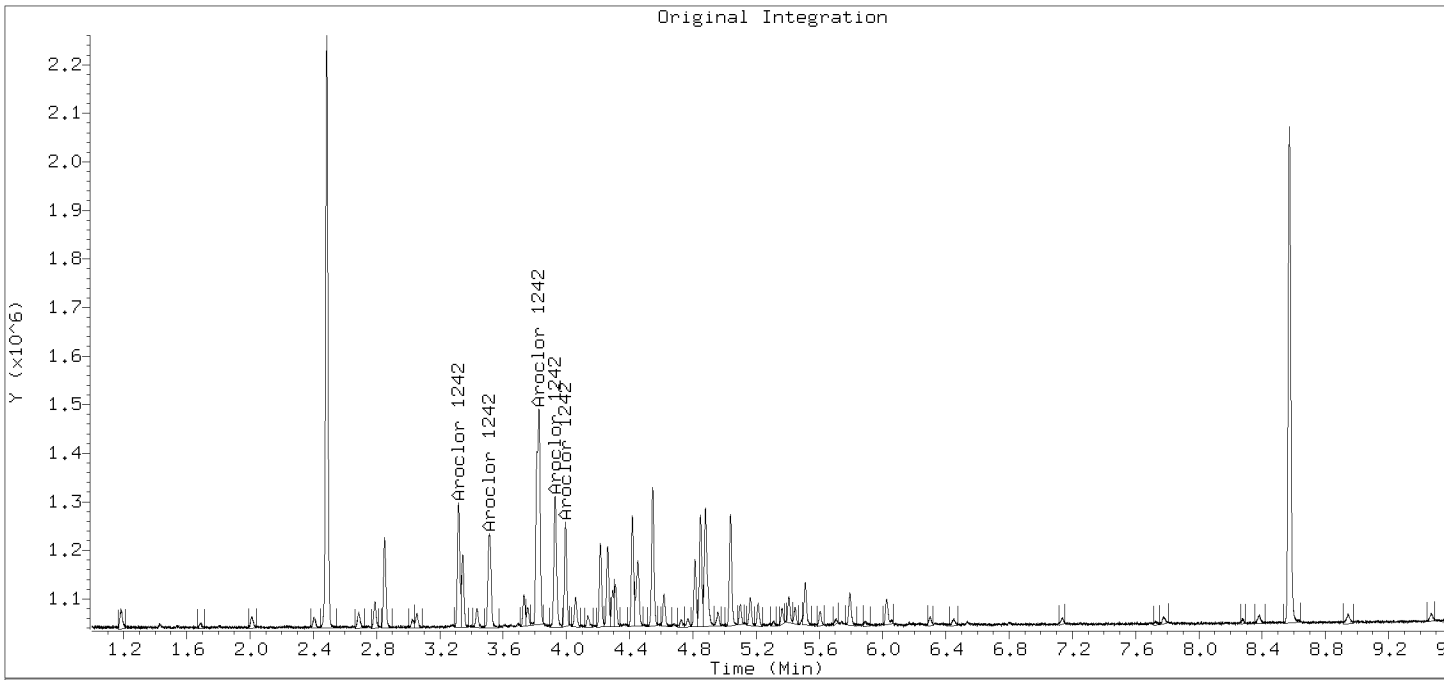
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

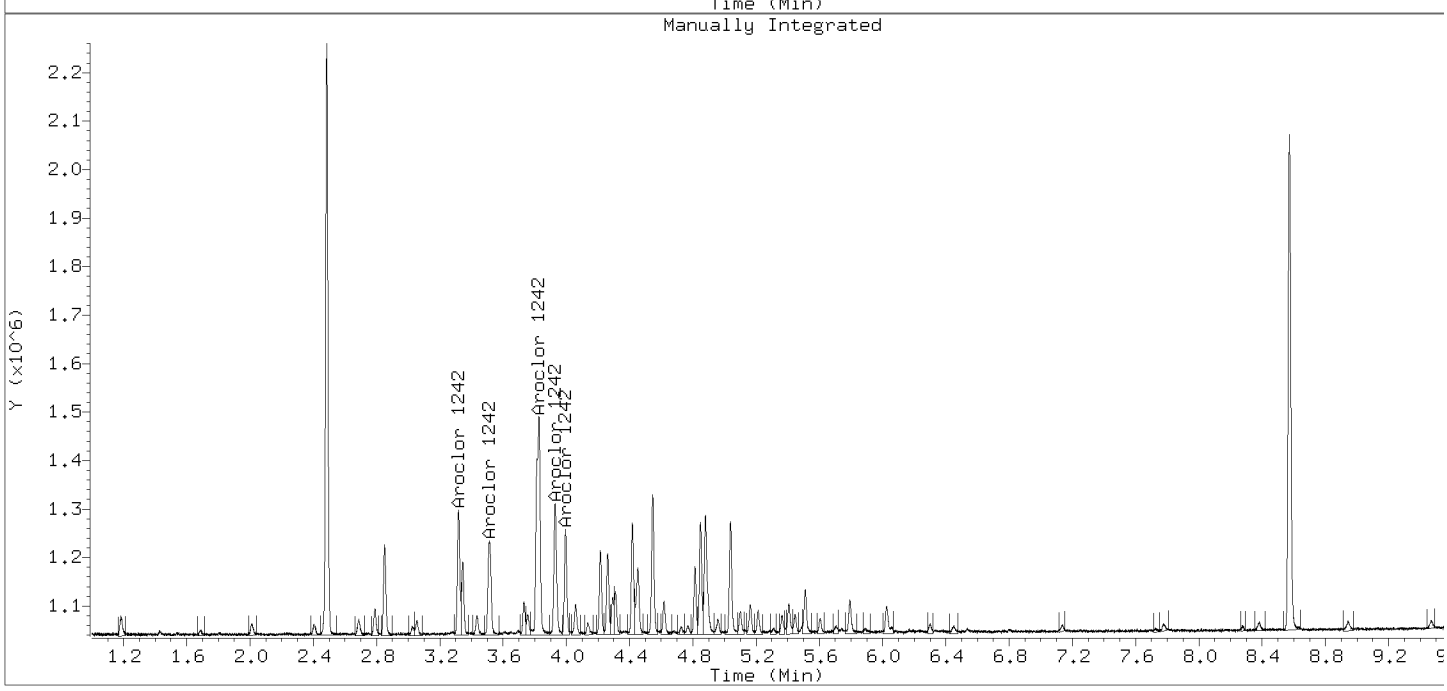
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618022.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

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

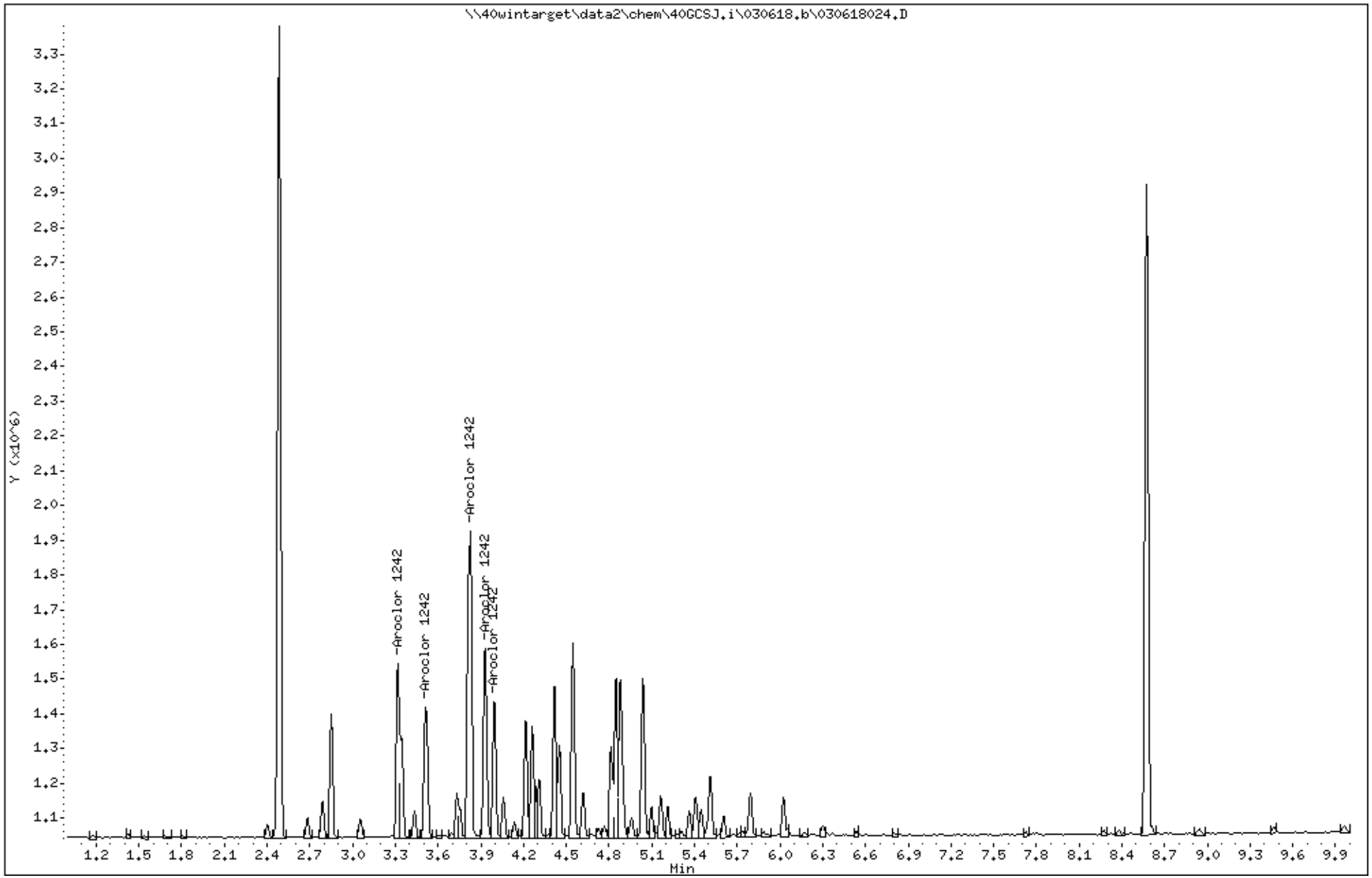
Instrument: 40GCSJ.i

Sample Info: 1242-CAL2B, 185543:1

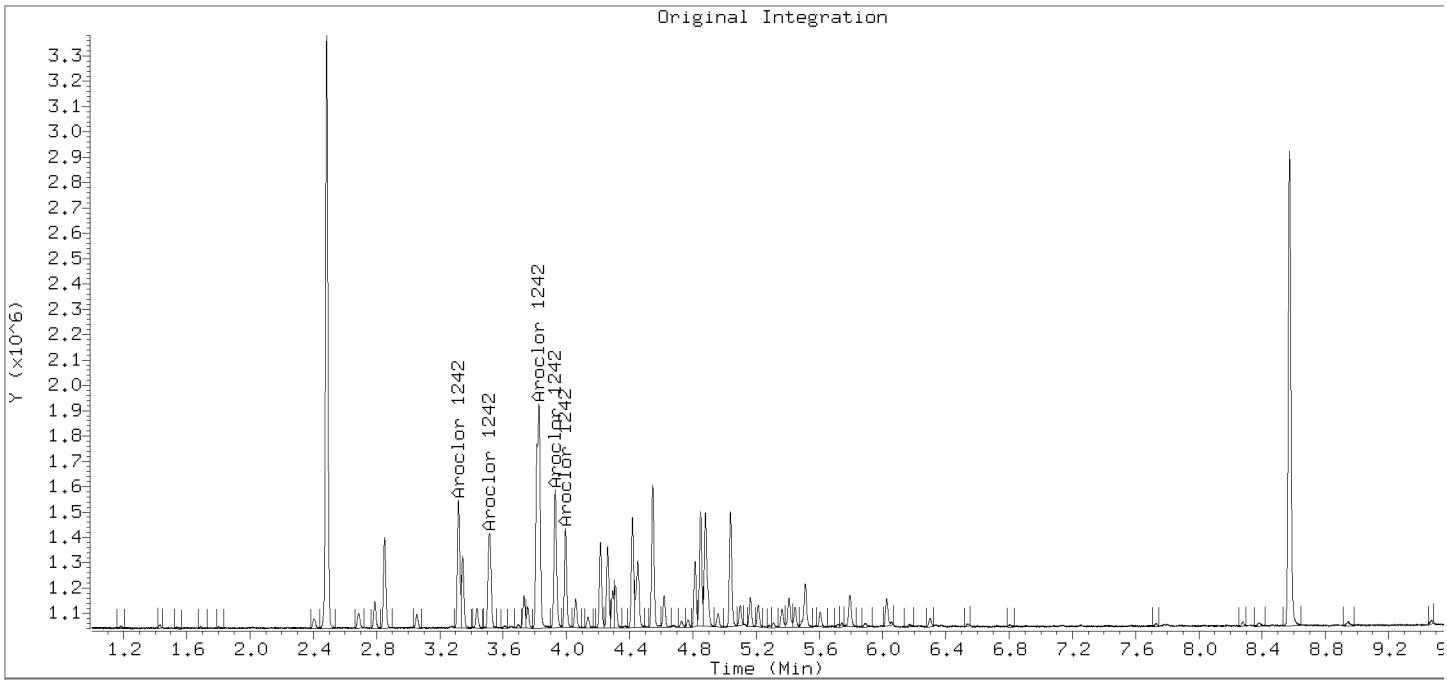
Operator: BLM

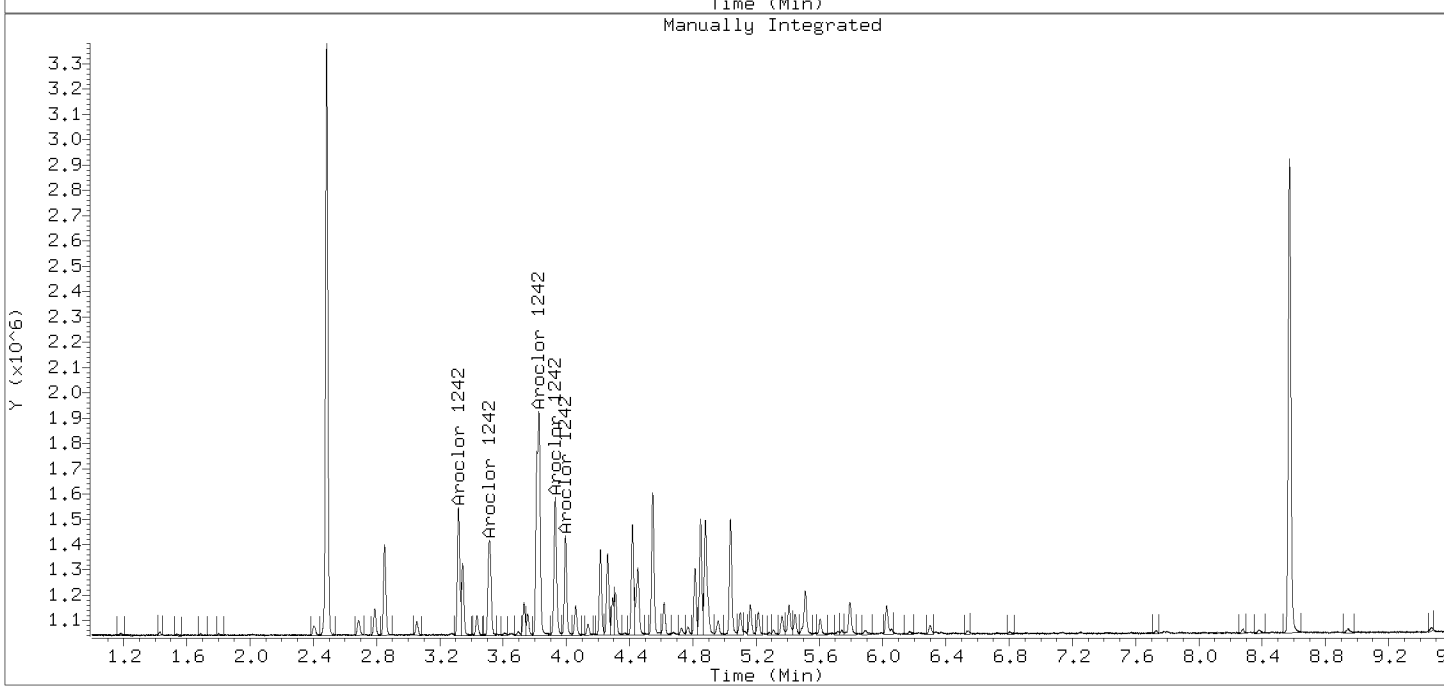
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

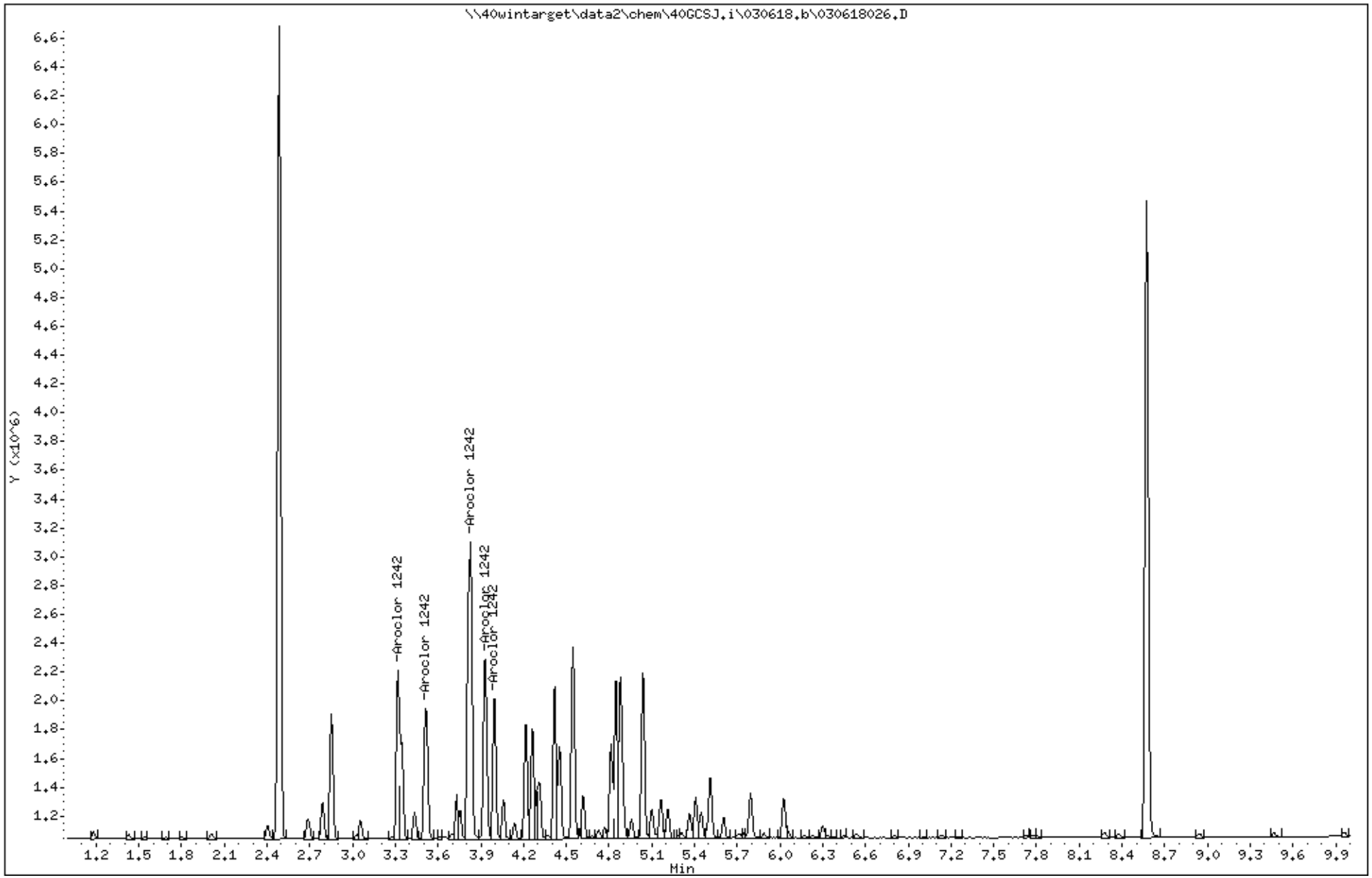
M - Compound response manually integrated.

Review Codes Legend

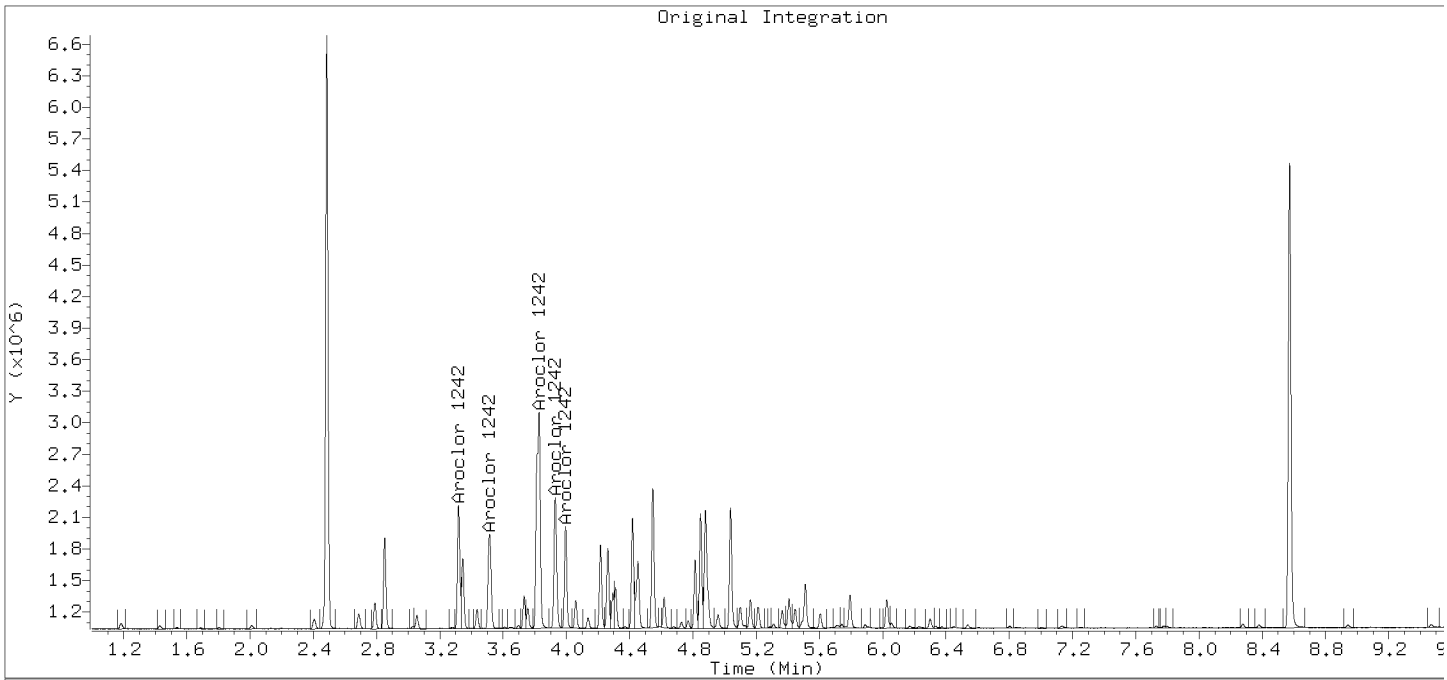
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

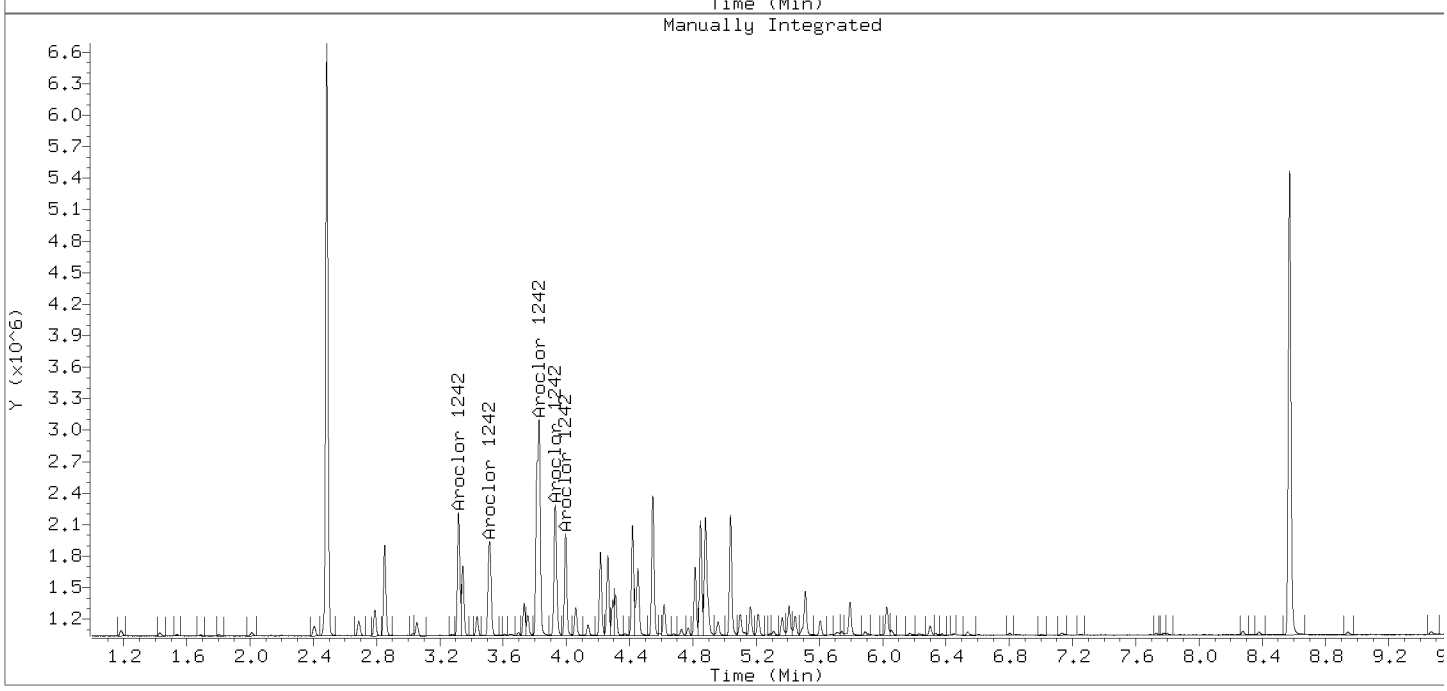
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618026.D
Date : 06-MAR-2018 14:16
Client ID: 1242-CAL3B
Sample Info: 1242-CAL3B, 185544:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 14:32

Client ID: 1242-CAL4B

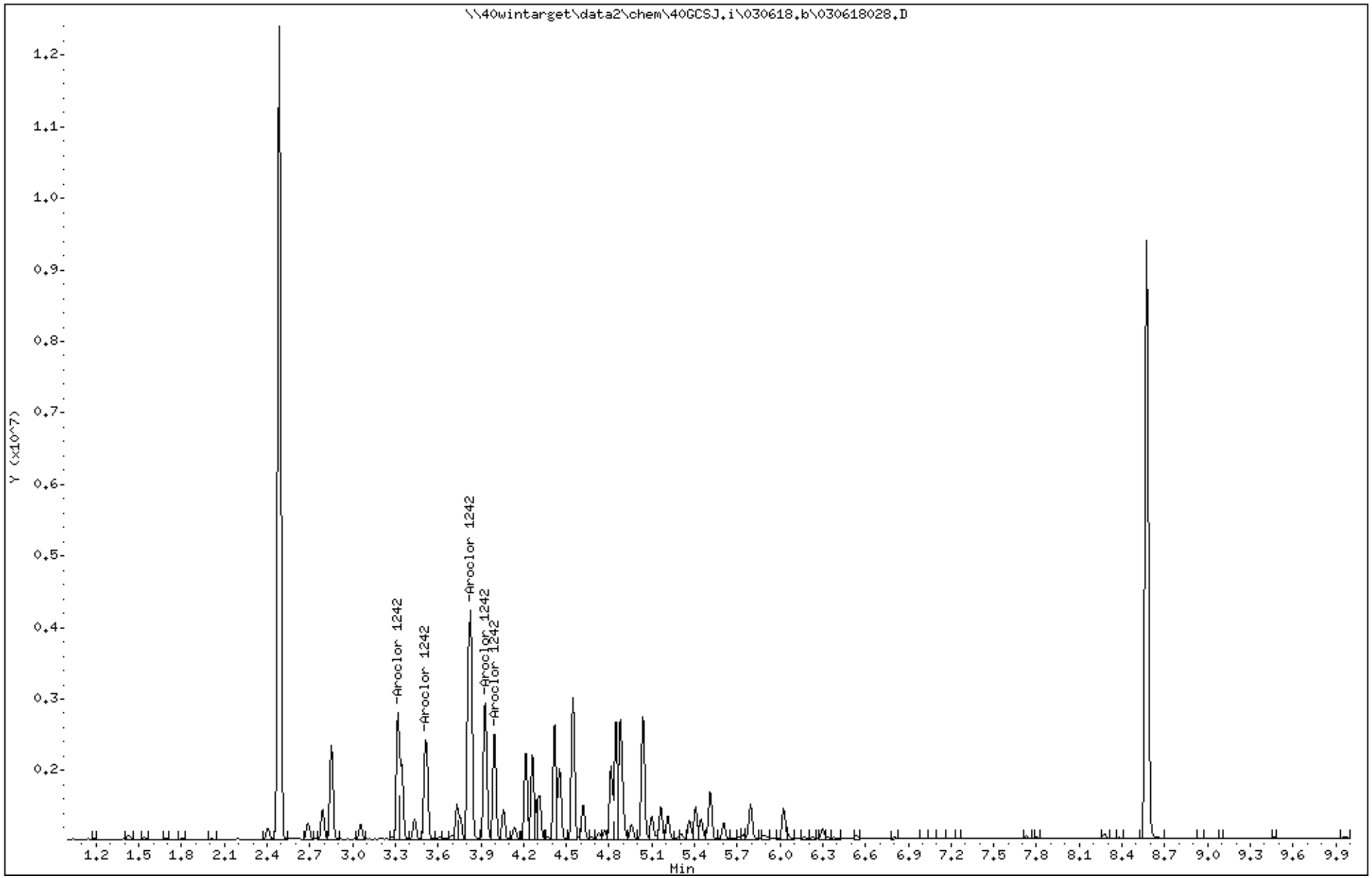
Instrument: 40GCSJ.i

Sample Info: 1242-CAL4B, 185545:1

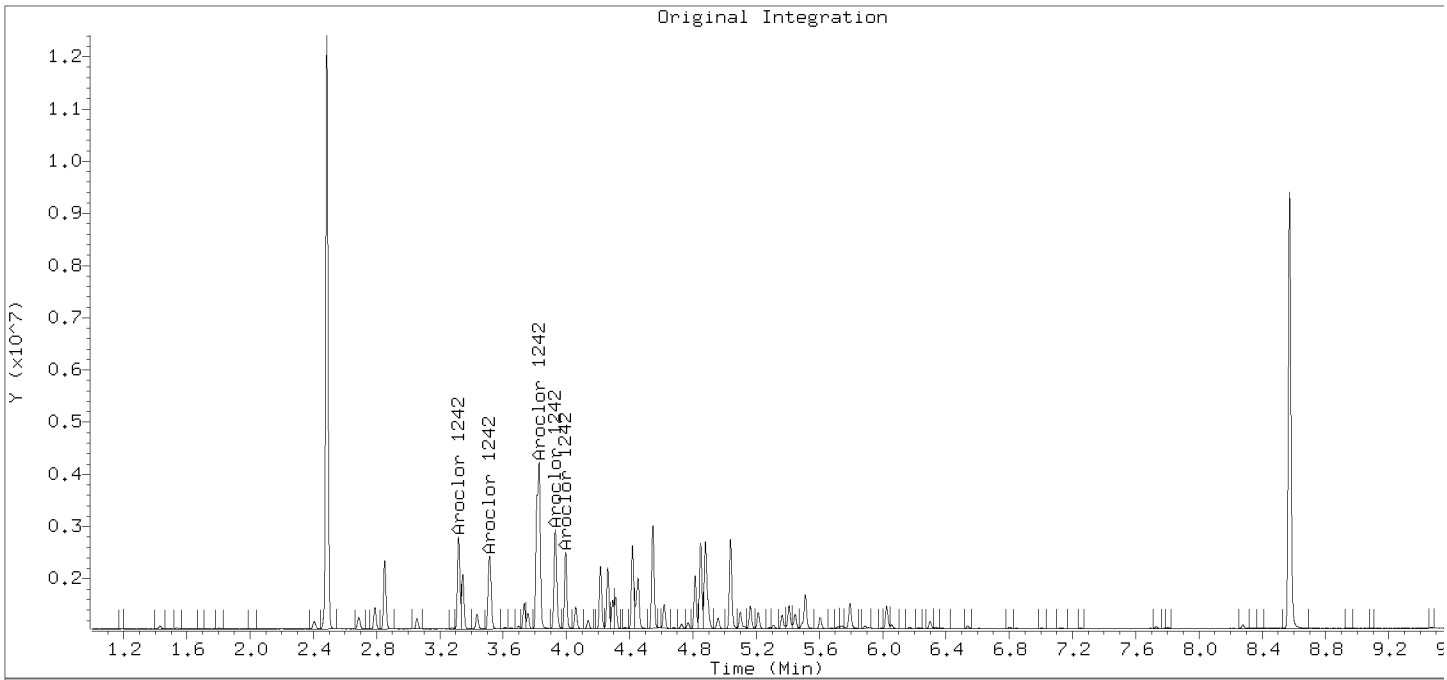
Operator: BLM

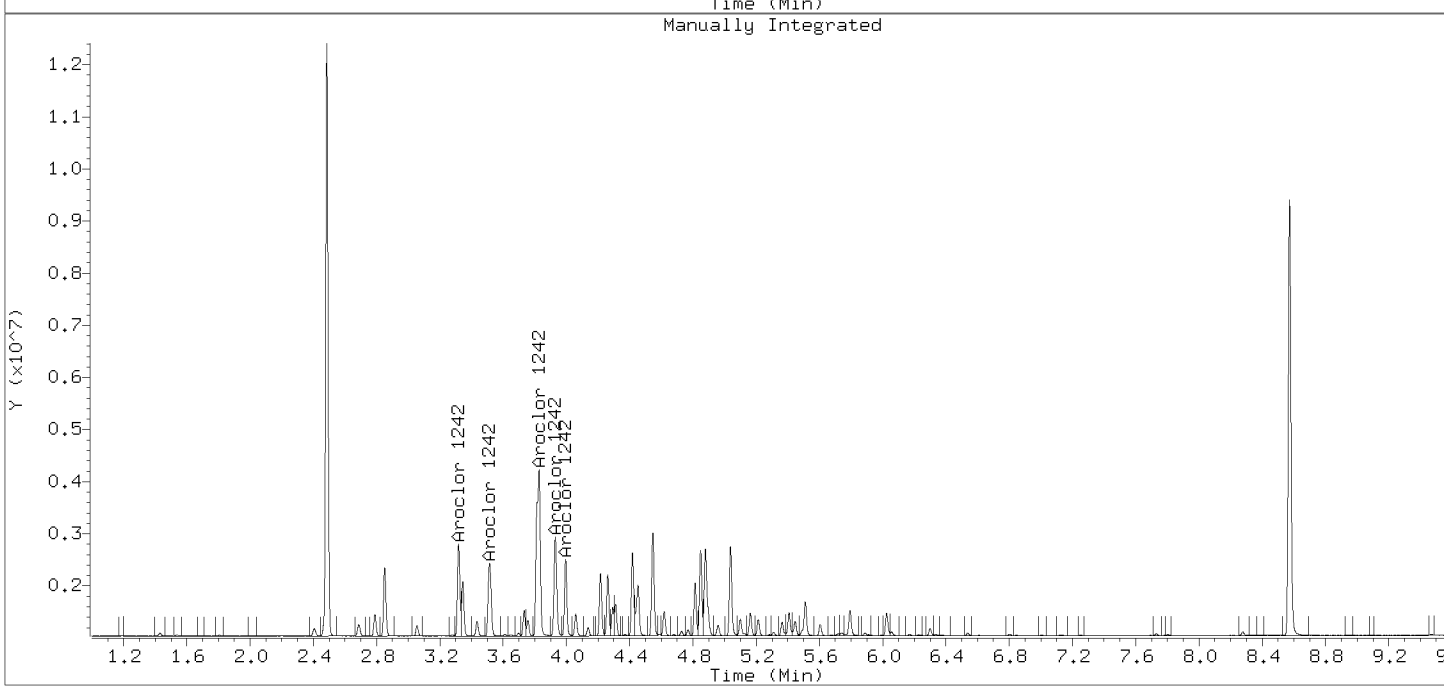
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

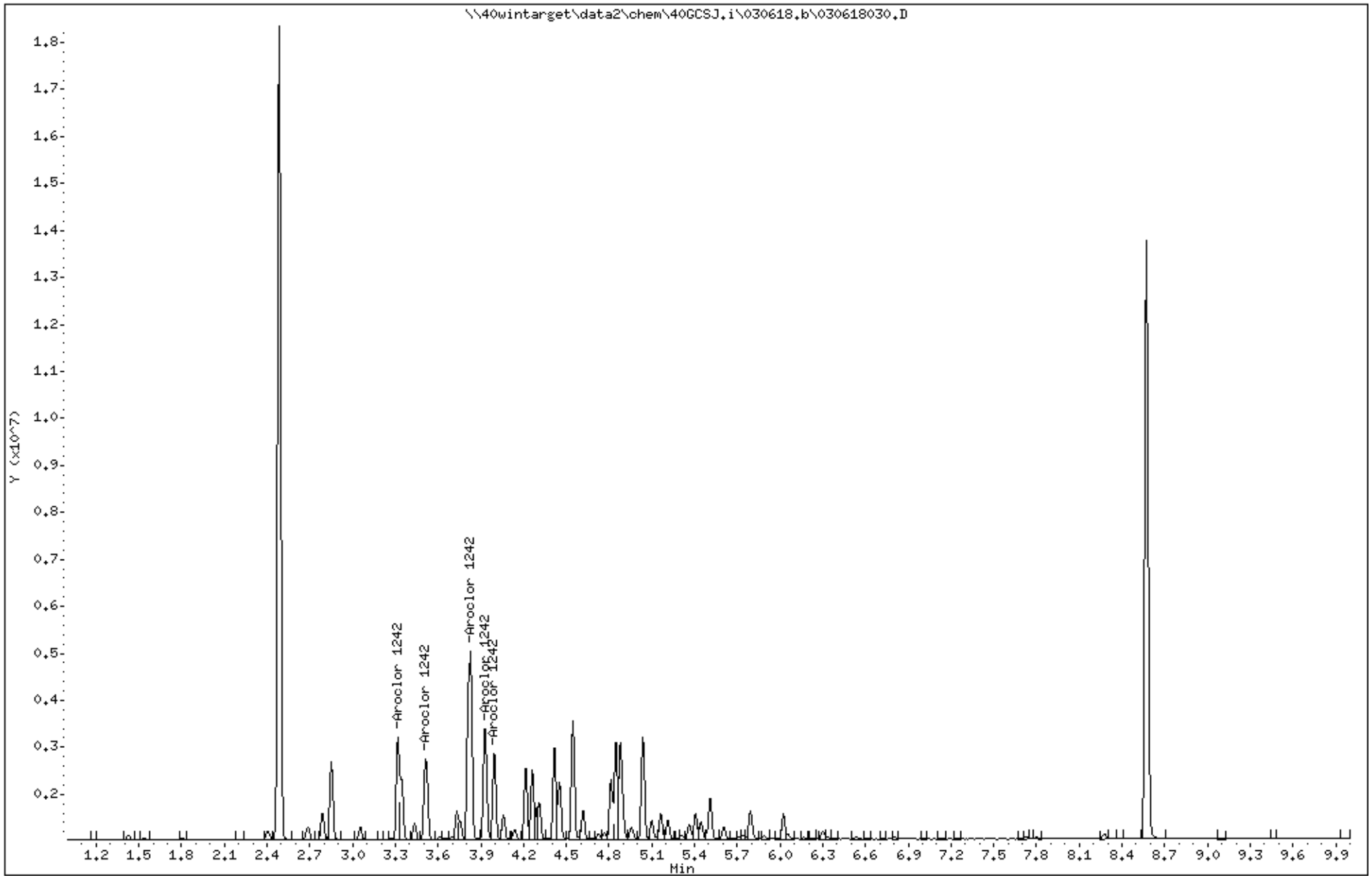
M - Compound response manually integrated.

Review Codes Legend

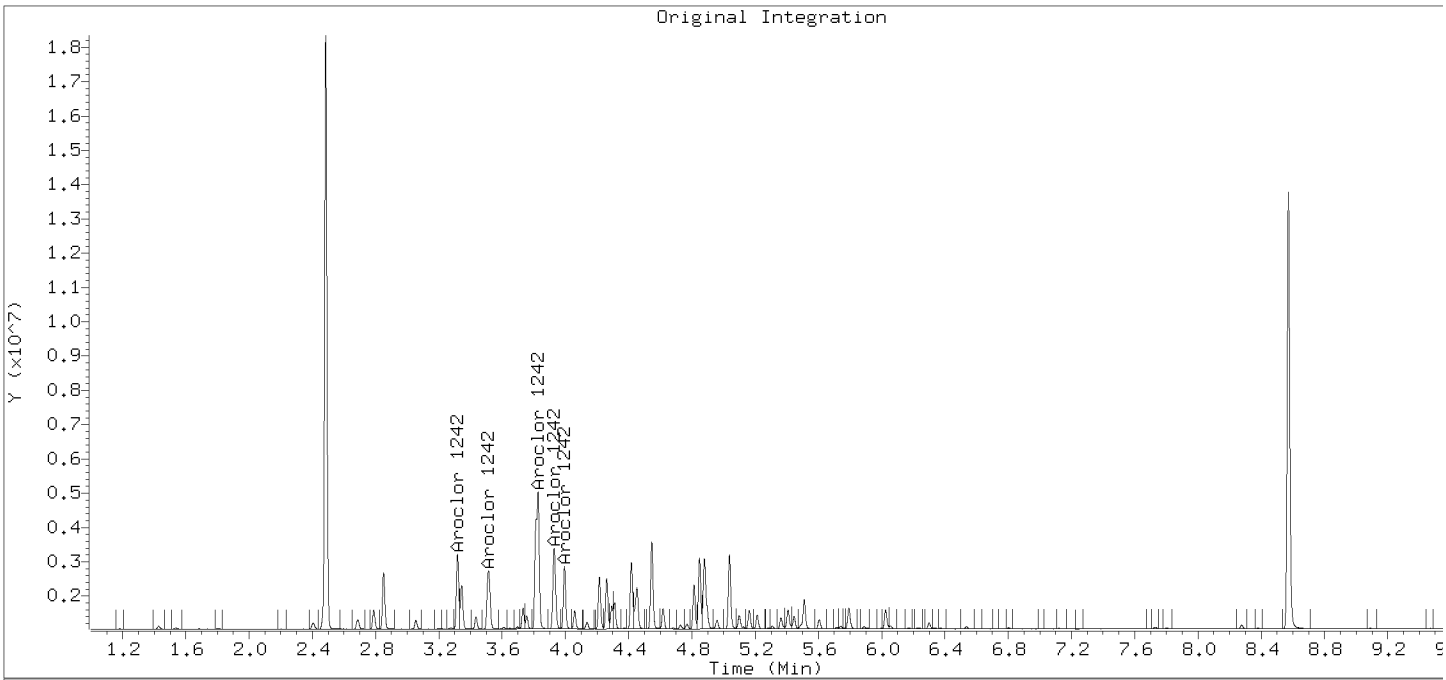
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

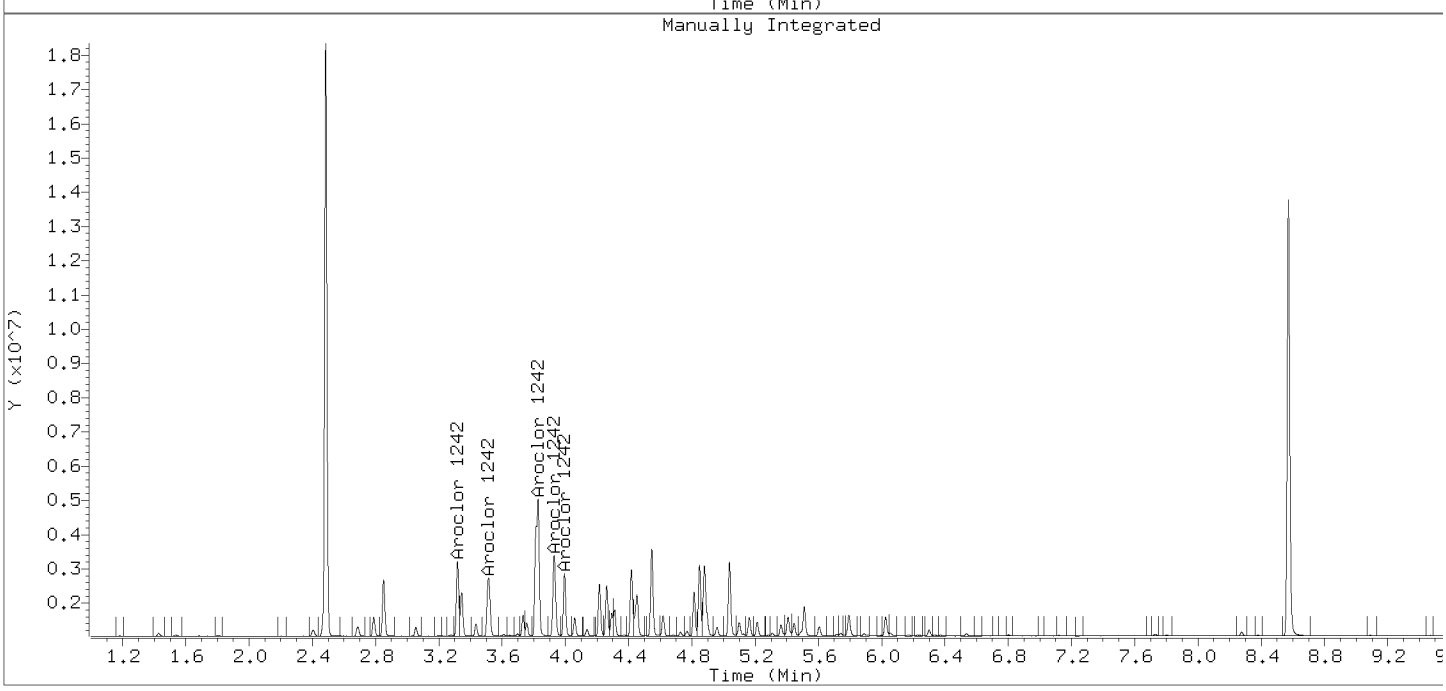
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618030.D
Date : 06-MAR-2018 14:48
Client ID: 1242-CAL5B
Sample Info: 1242-CAL5B, 185546:1

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

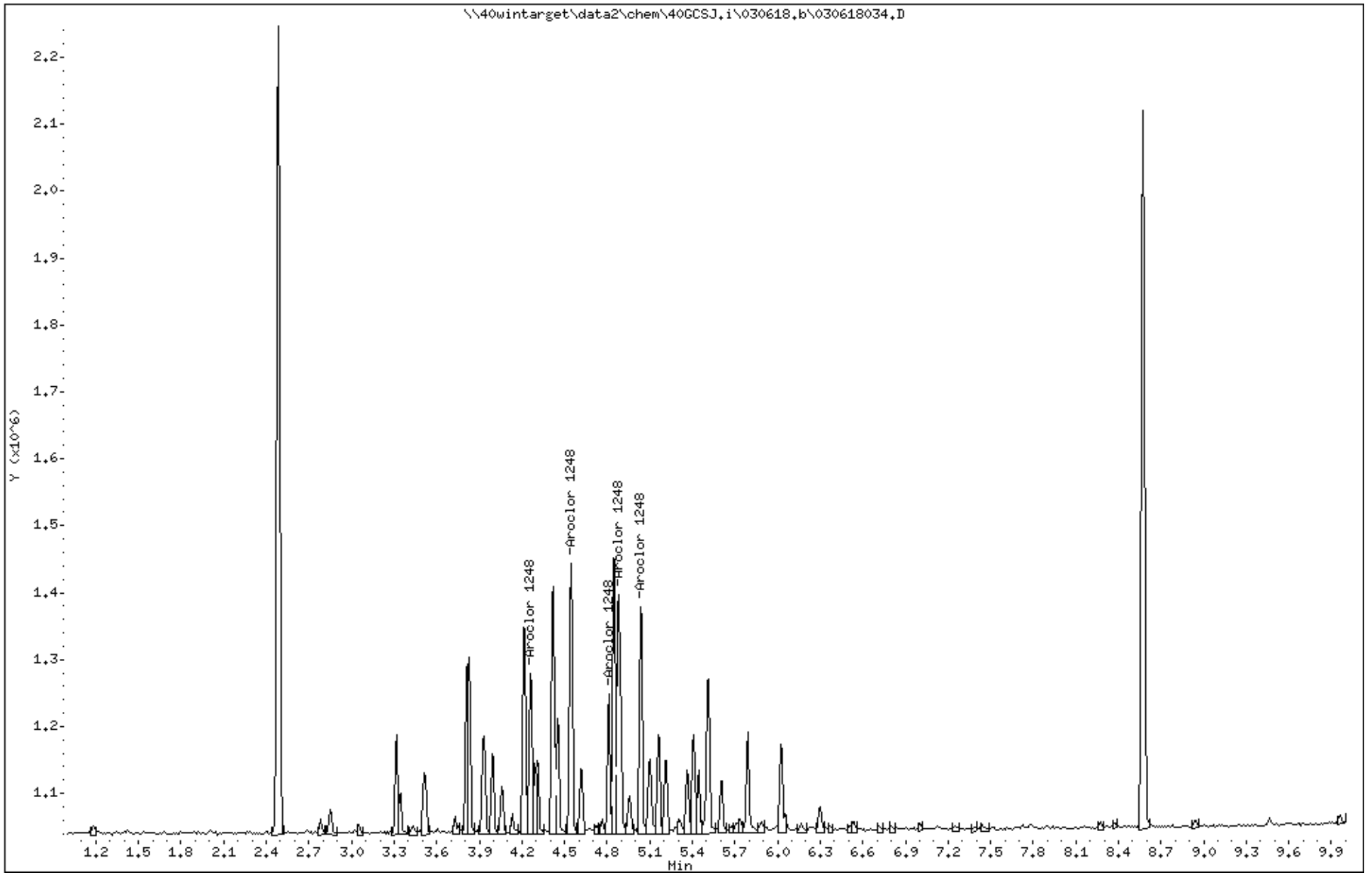
M - Compound response manually integrated.

Review Codes Legend

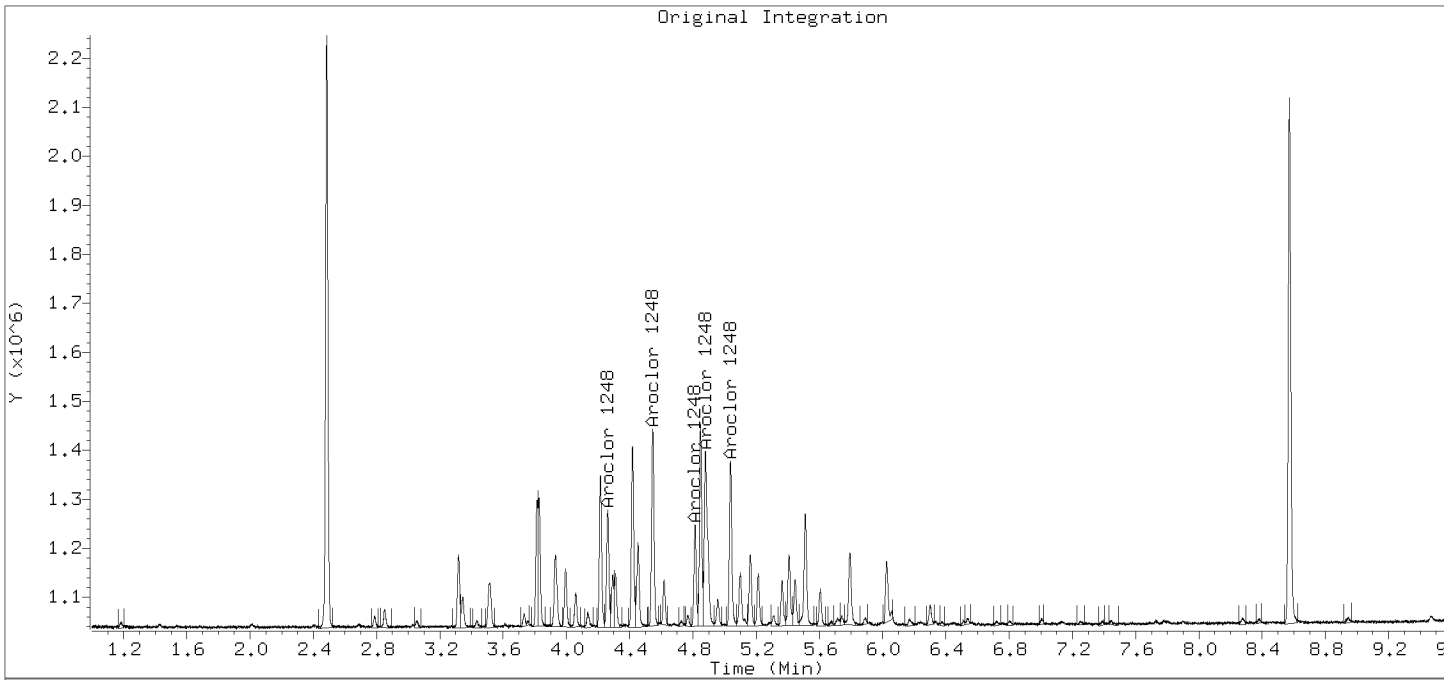
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

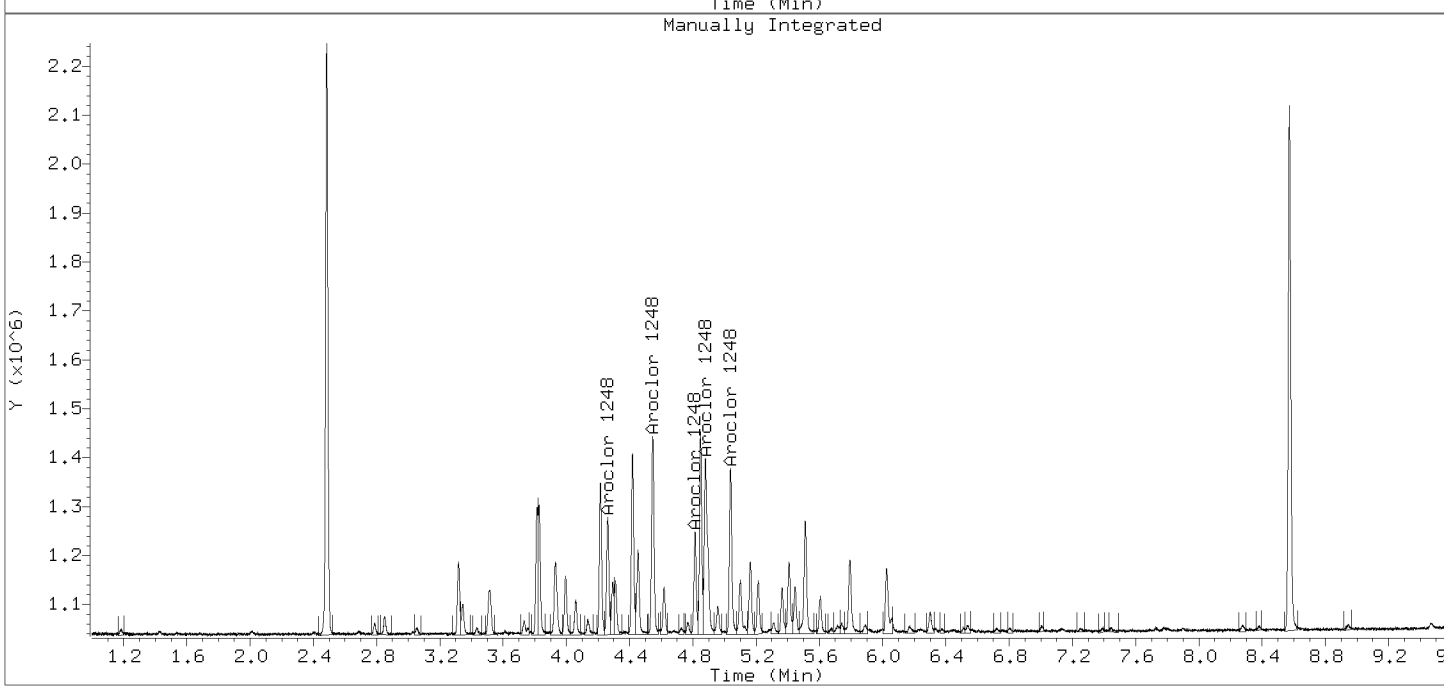
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618034.D
Date : 06-MAR-2018 15:21
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

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

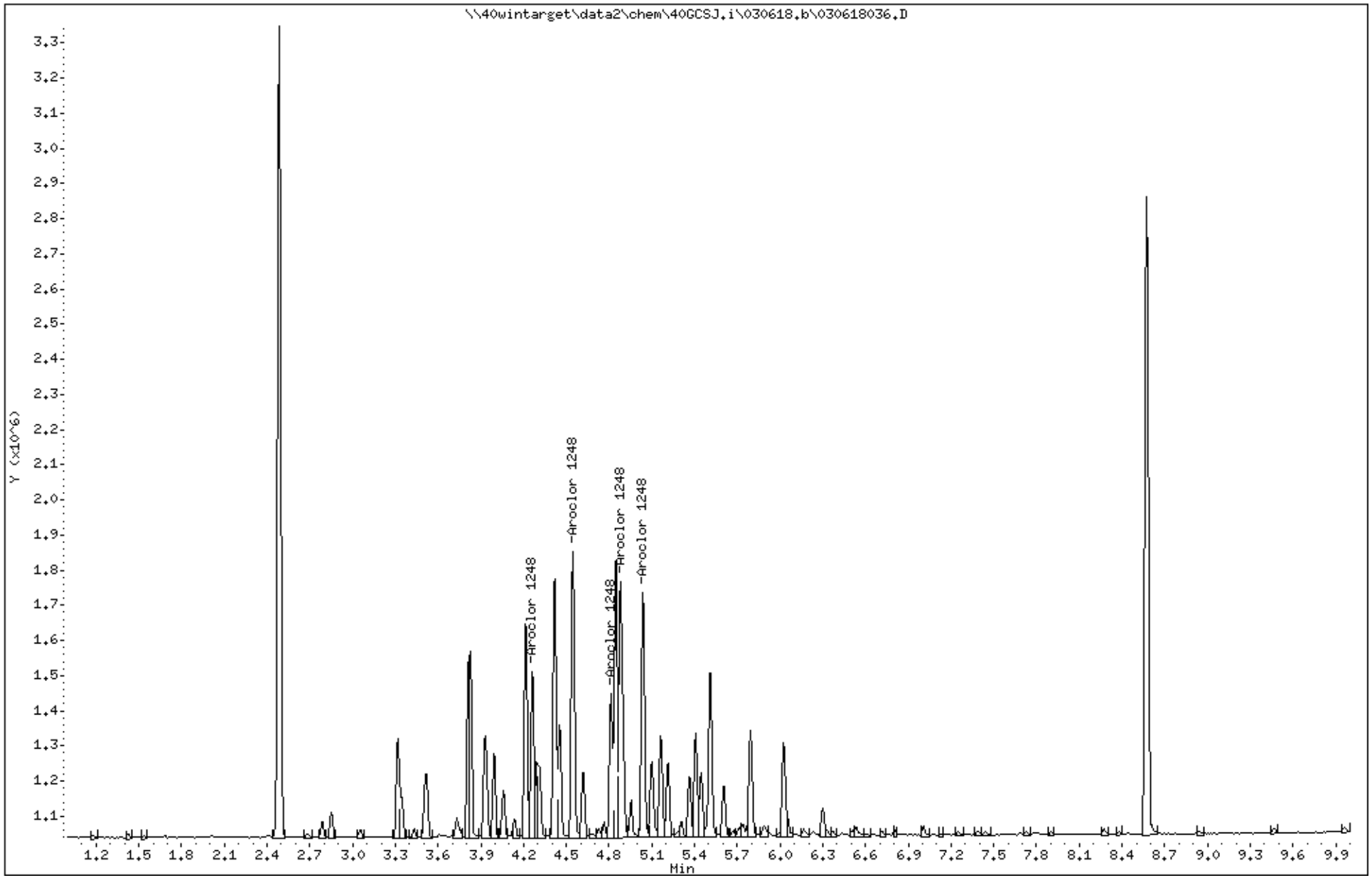
Instrument: 40GCSJ.i

Sample Info: 1248-CAL2D, 185548:1

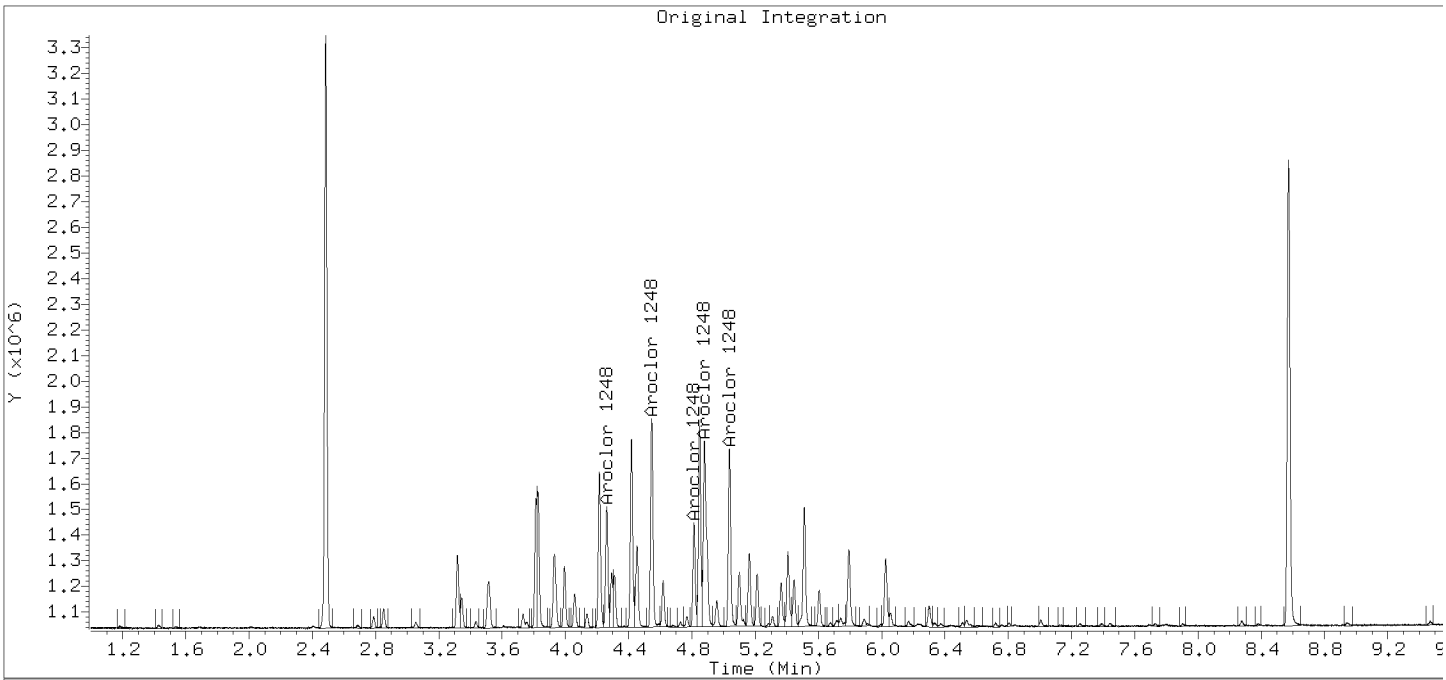
Operator: BLM

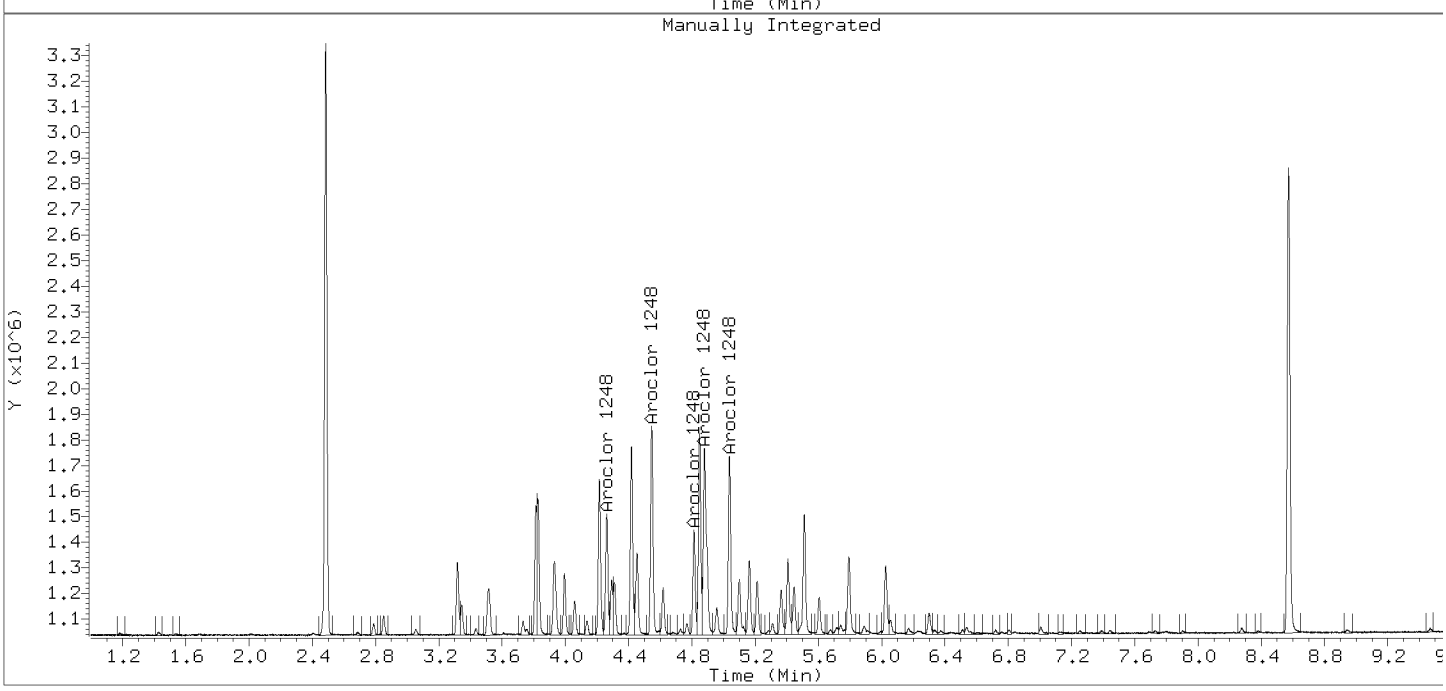
Column phase: ZB-1ms

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

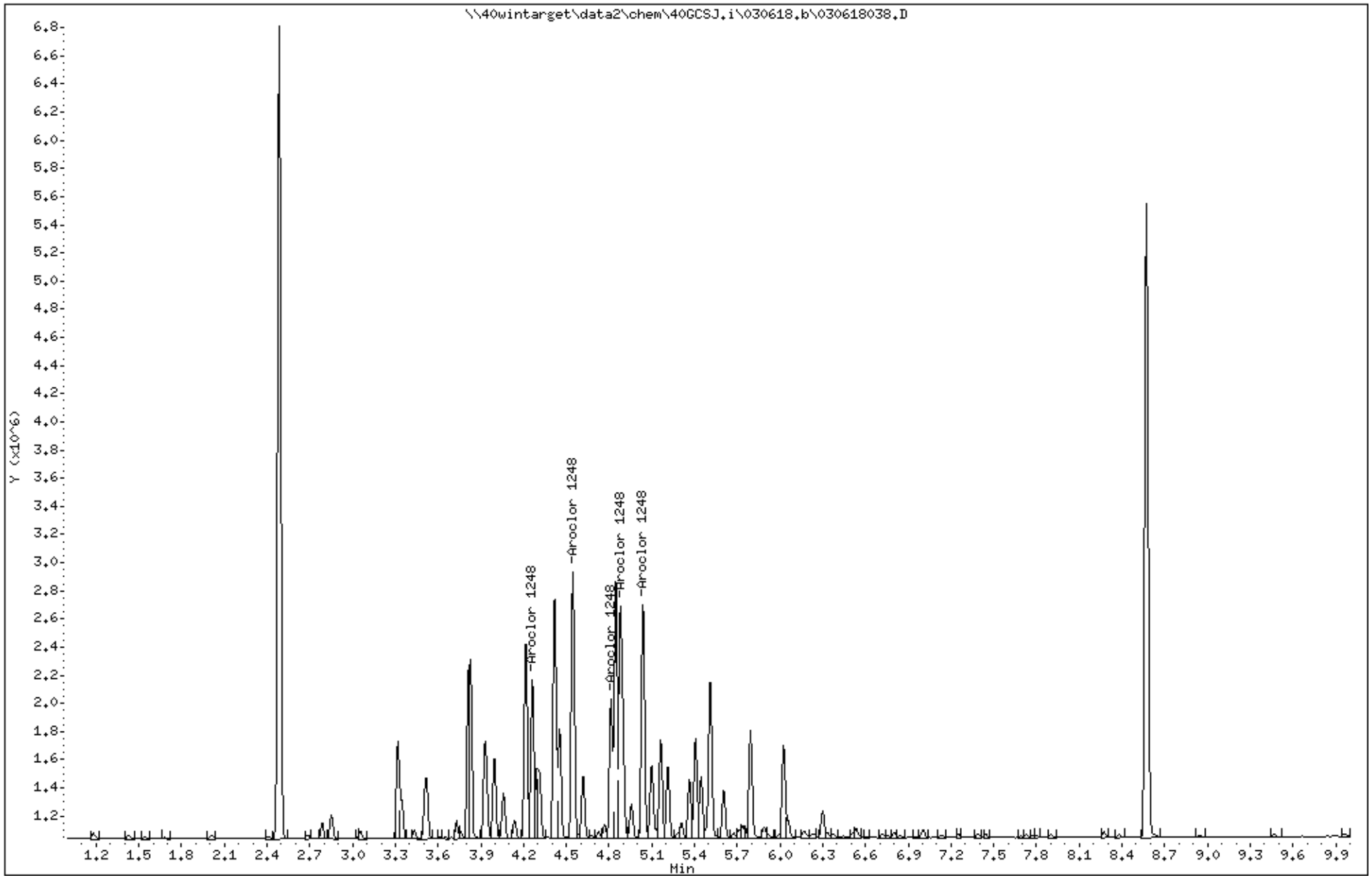
Instrument: 40GCSJ.i

Sample Info: 1248-CAL3D, 185549:1

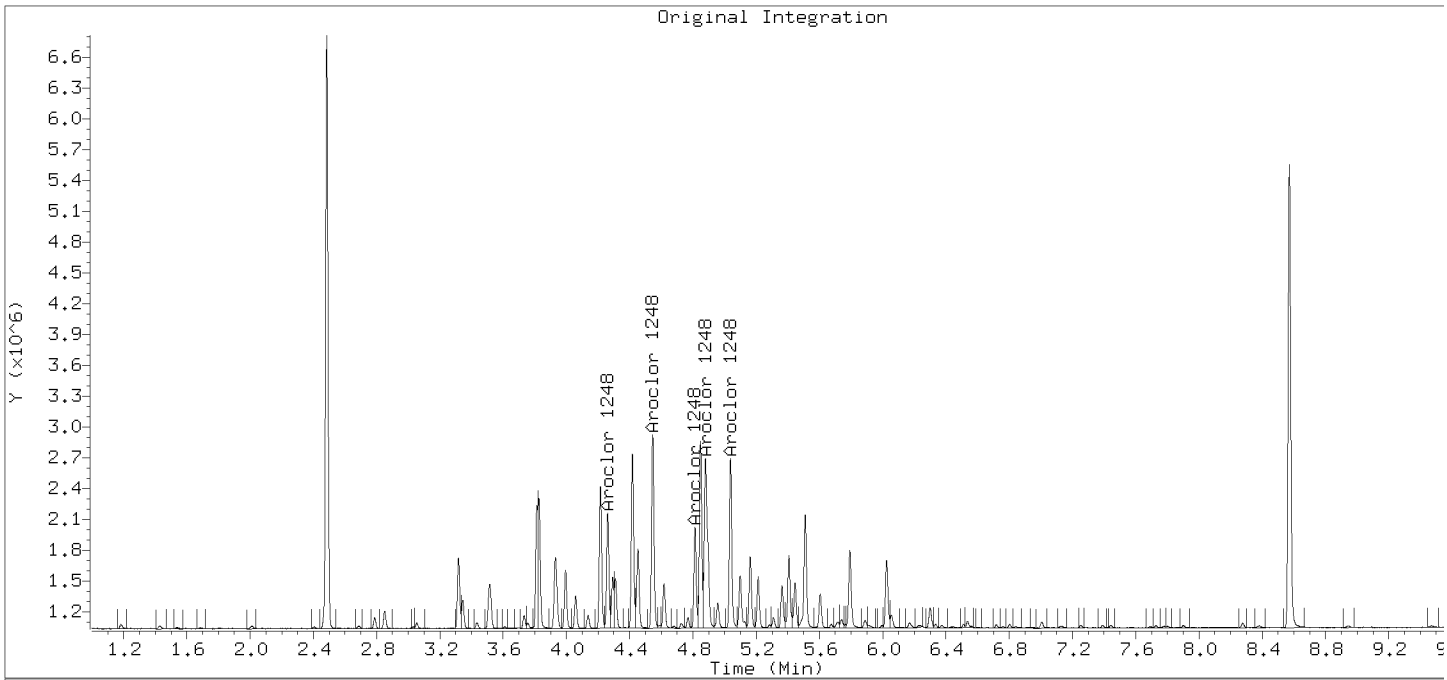
Operator: BLM

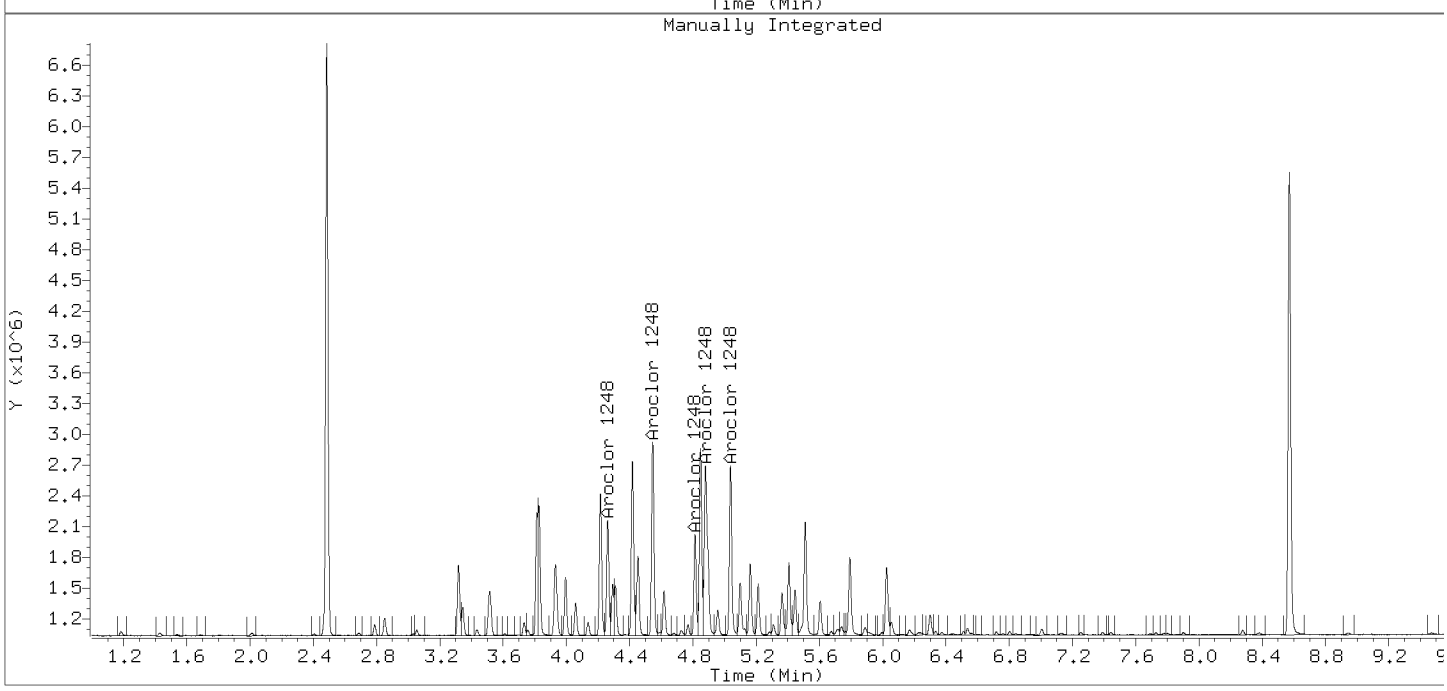
Column phase: ZB-1ms

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

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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

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:09

Client ID: 1248-CAL4D

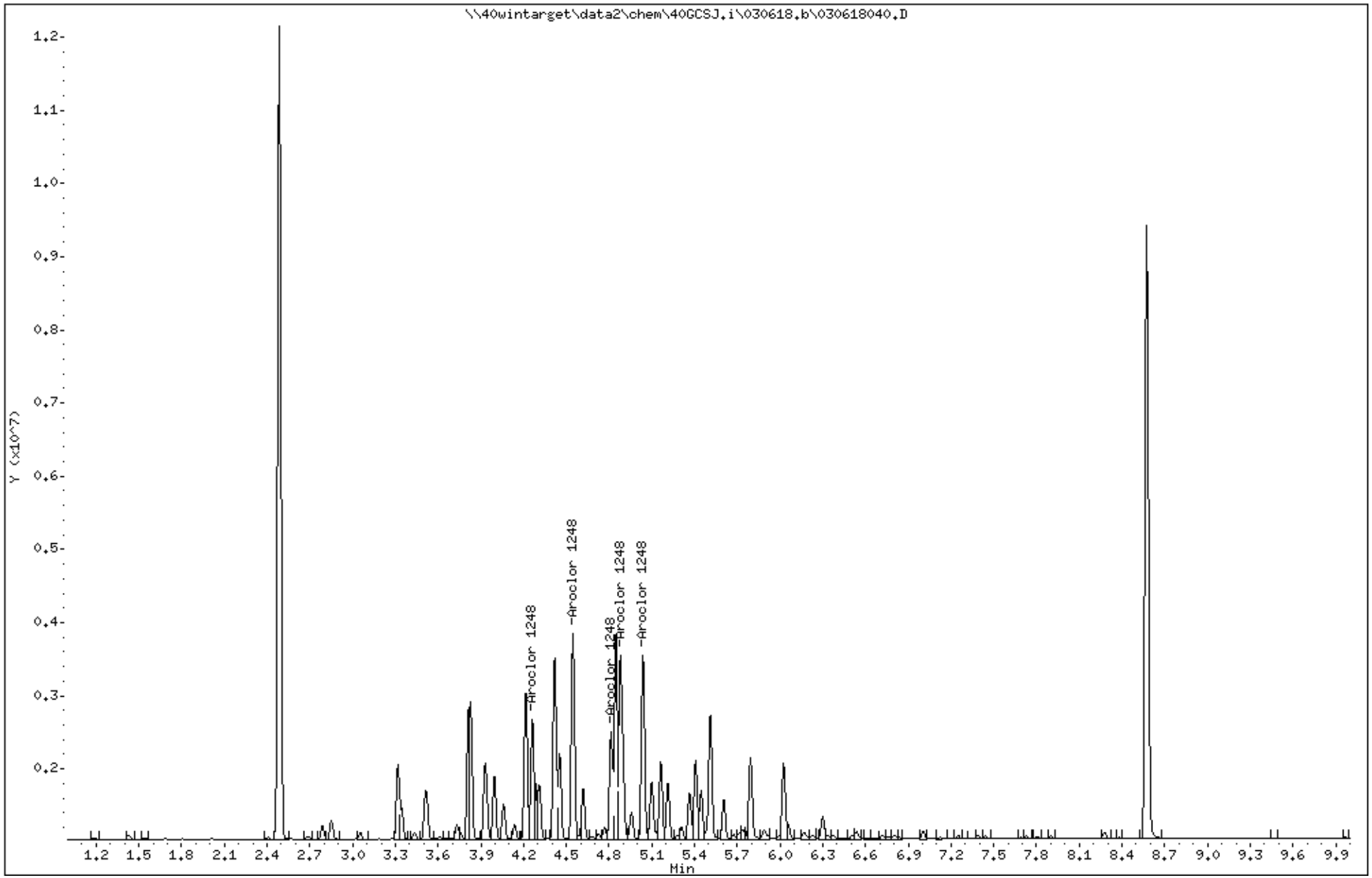
Instrument: 40GCSJ.i

Sample Info: 1248-CAL4D, 185550:1

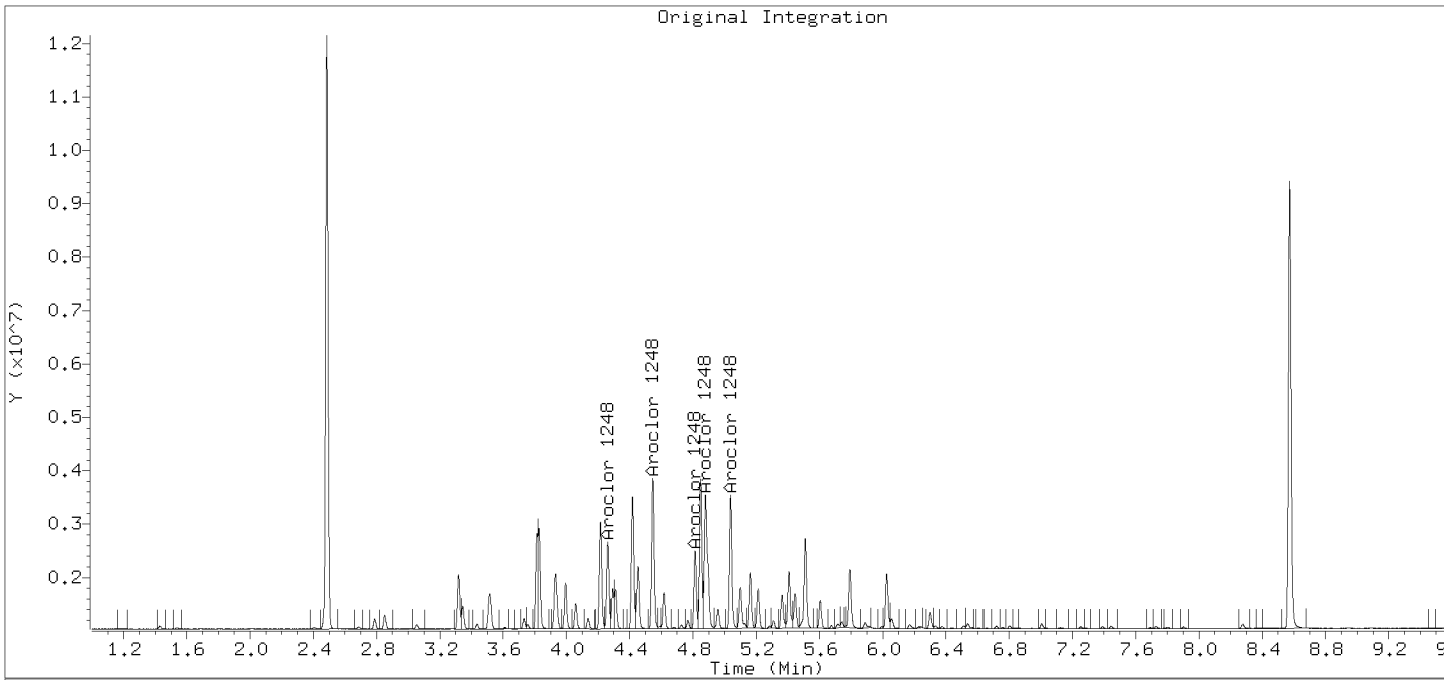
Operator: BLM

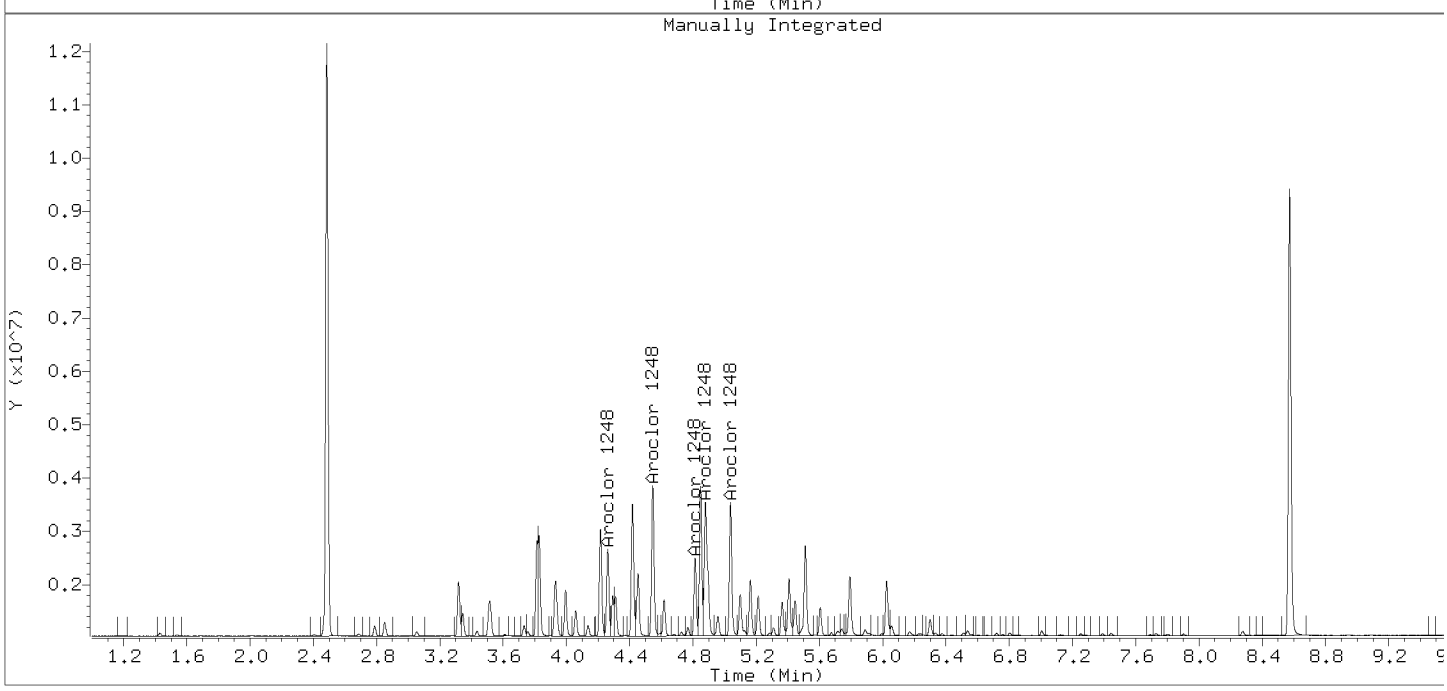
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:25

Client ID: 1248-CAL5D

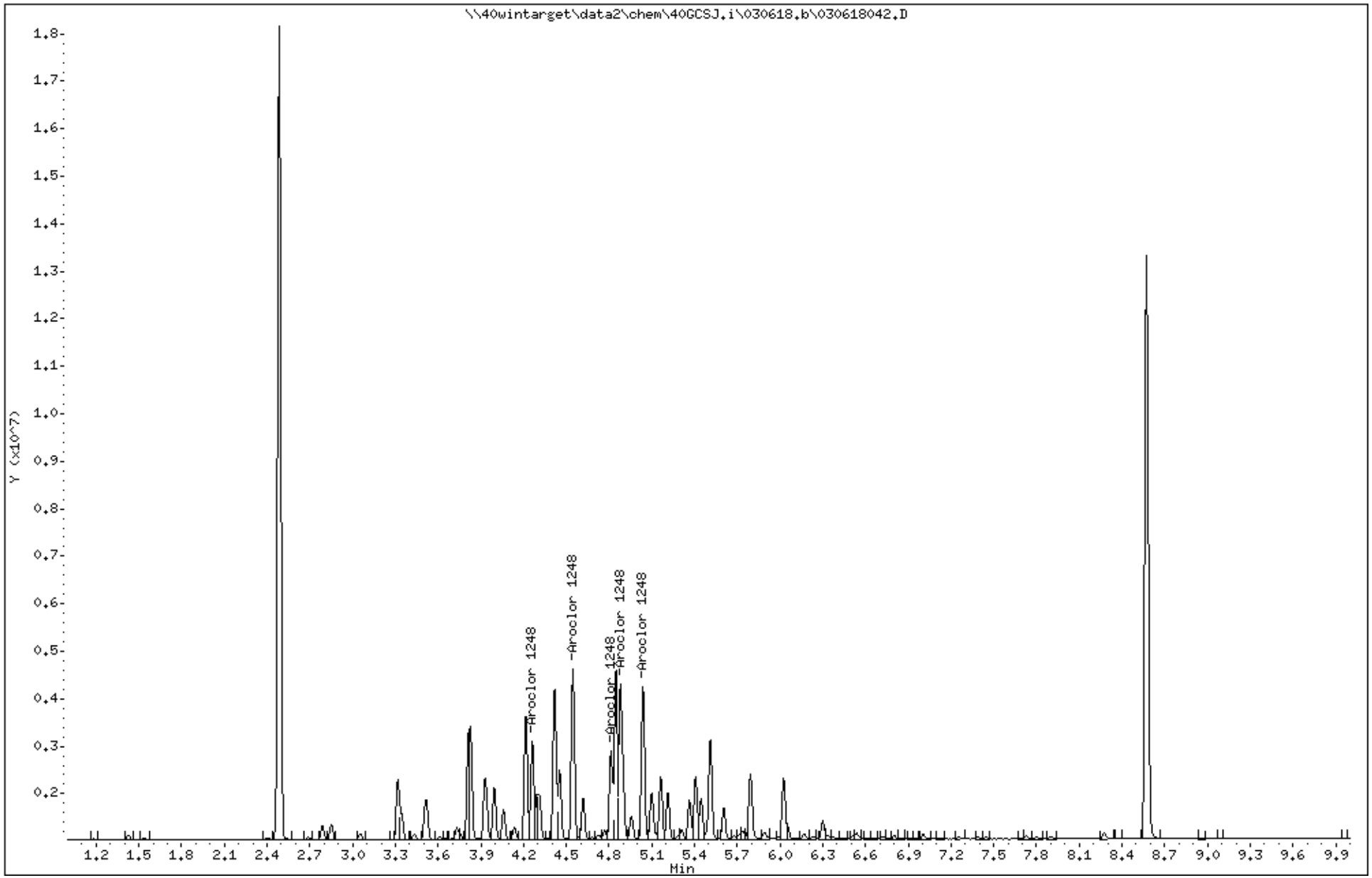
Instrument: 40GCSJ.i

Sample Info: 1248-CAL5D, 185551:1

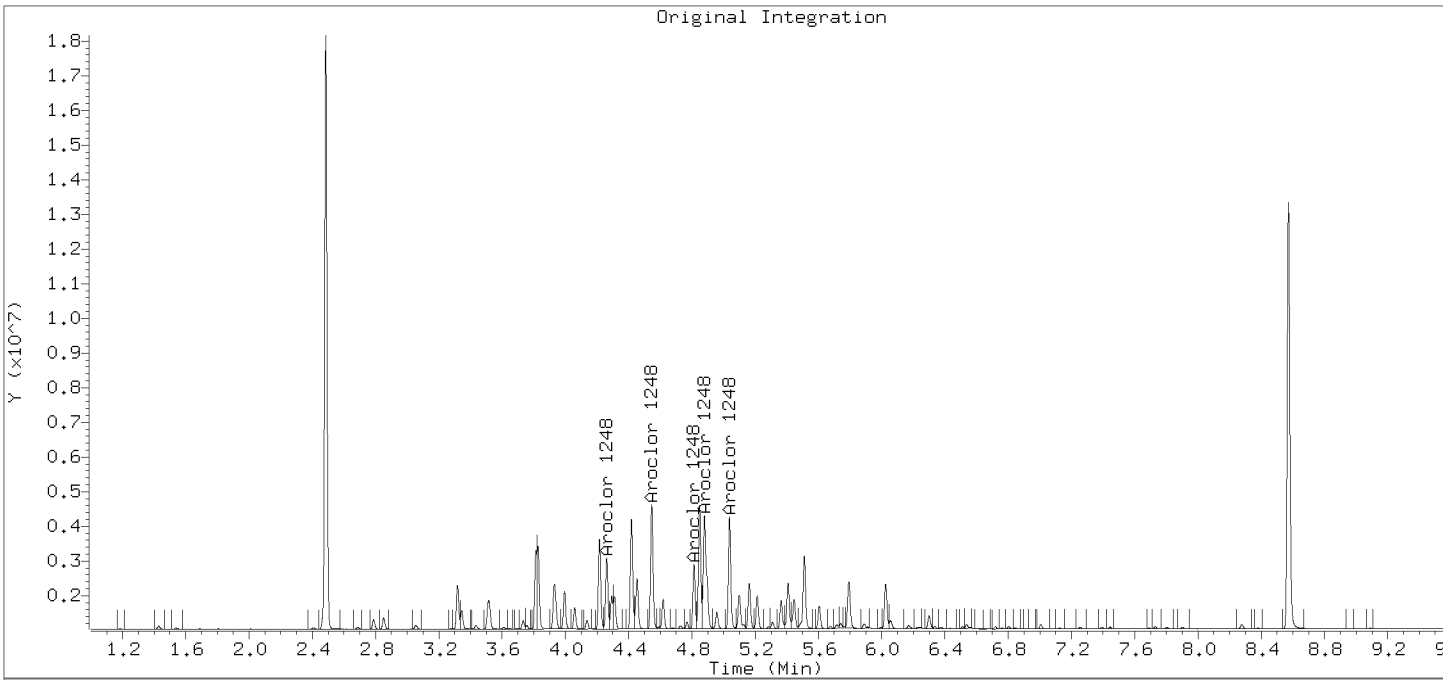
Operator: BLM

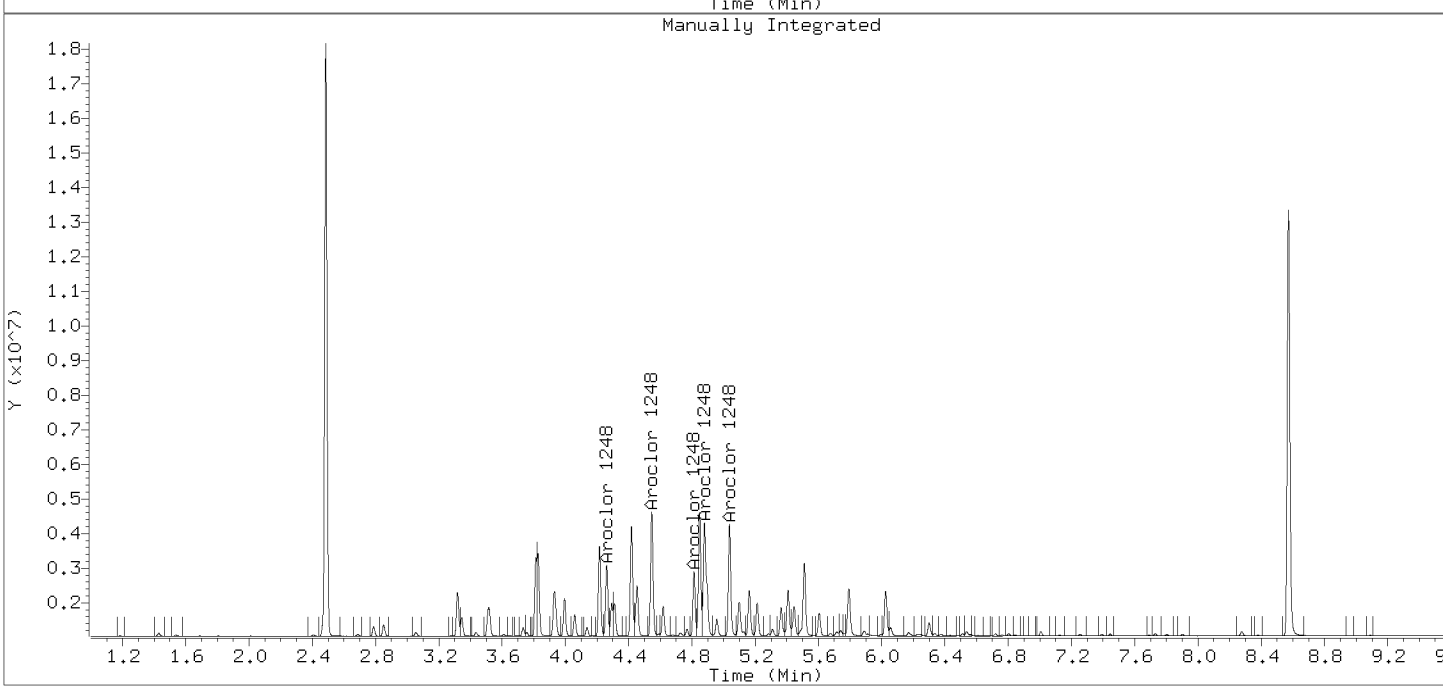
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 16:57

Client ID: 1254-CAL1C

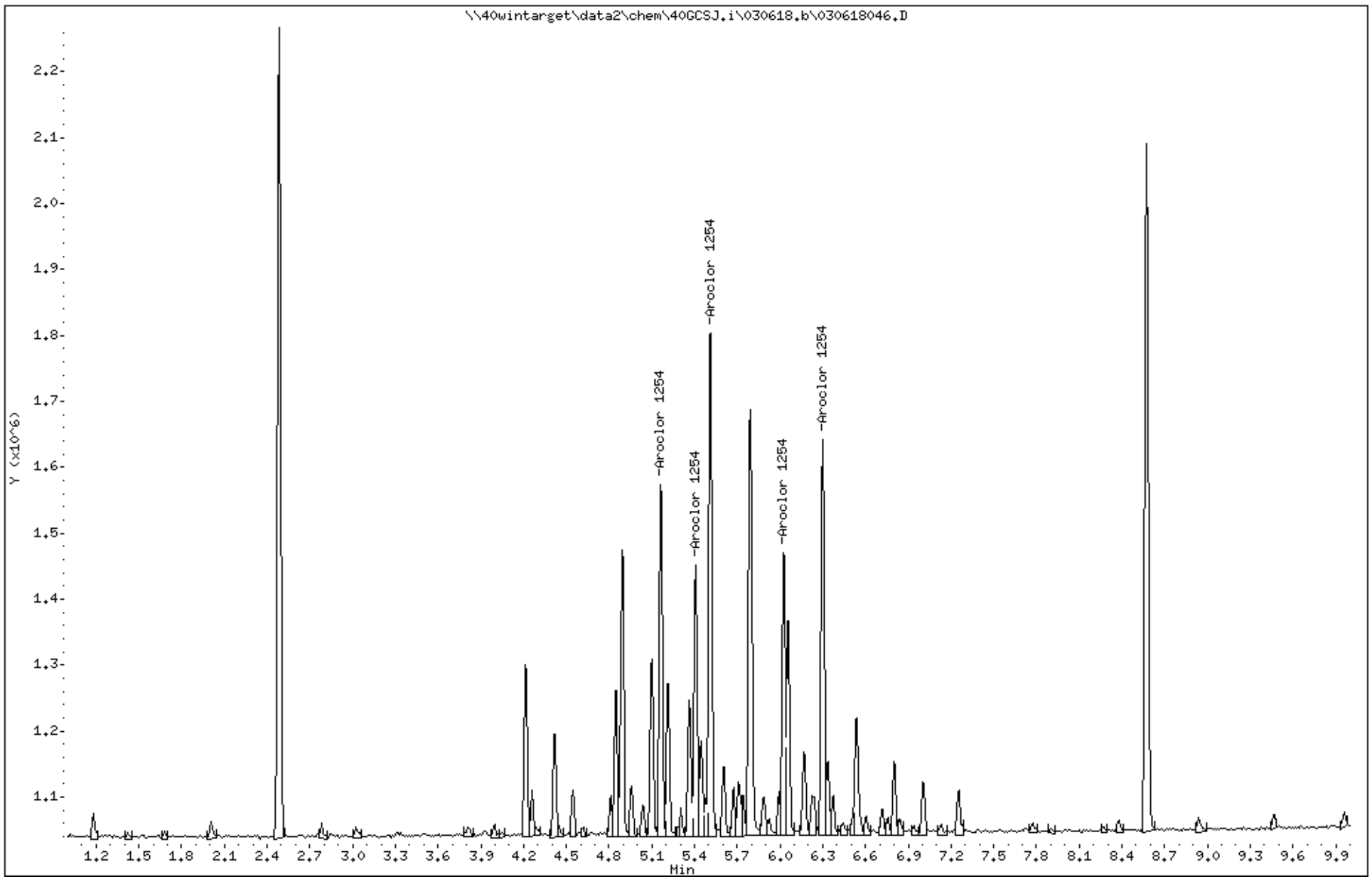
Instrument: 40GCSJ.i

Sample Info: 1254-CAL1C, 188135:1

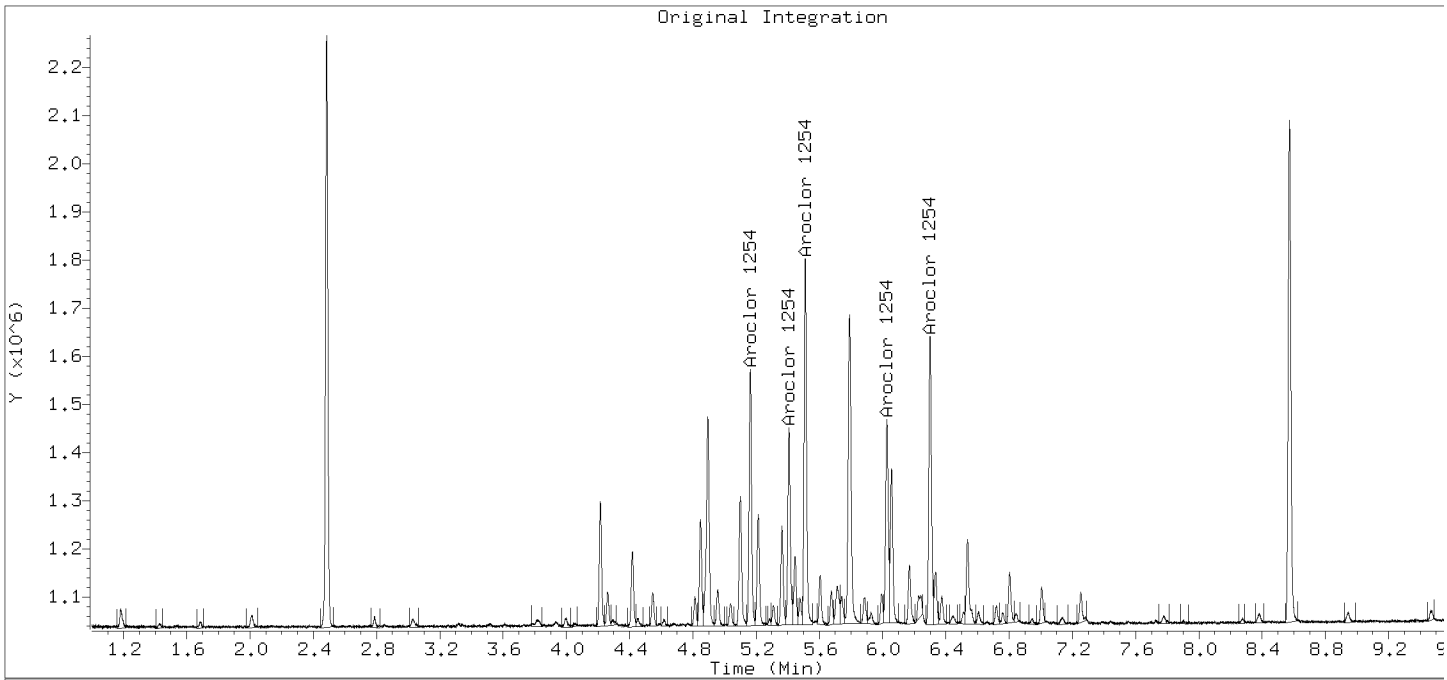
Operator: BLM

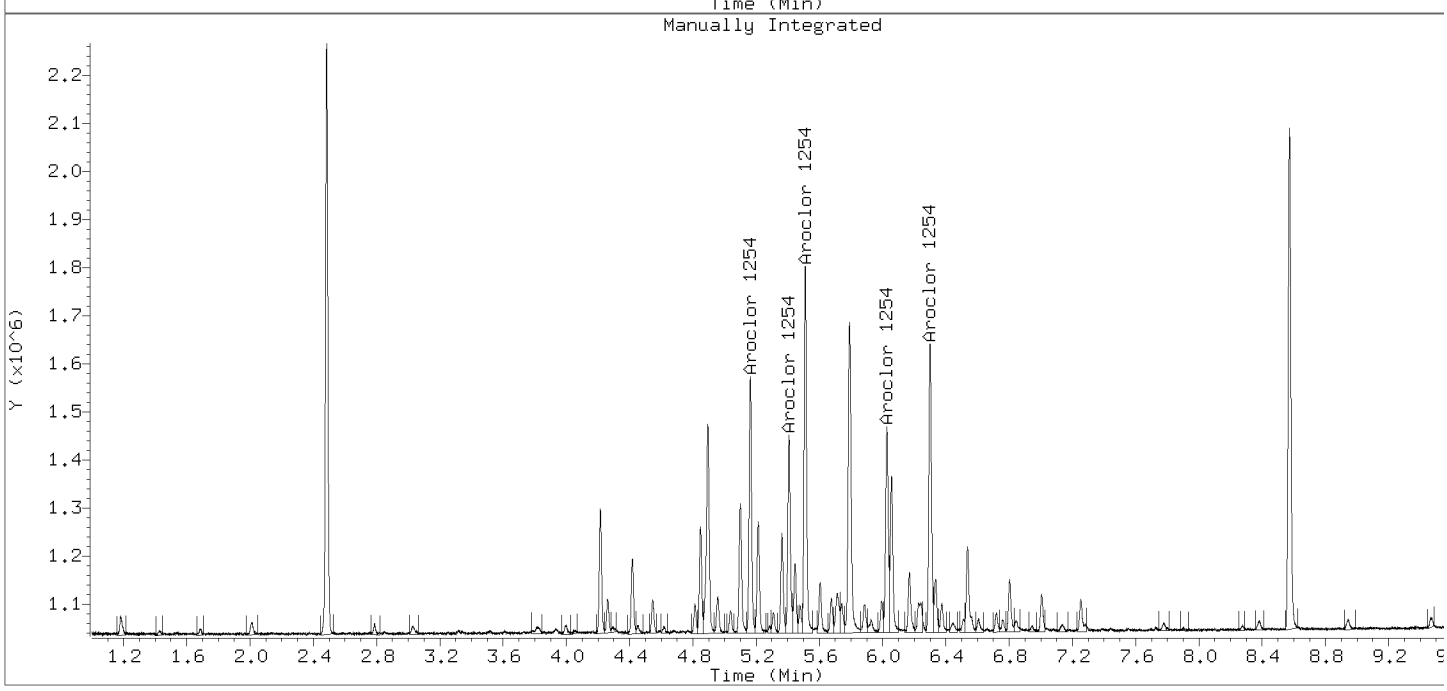
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:13

Client ID: 1254-CAL2C

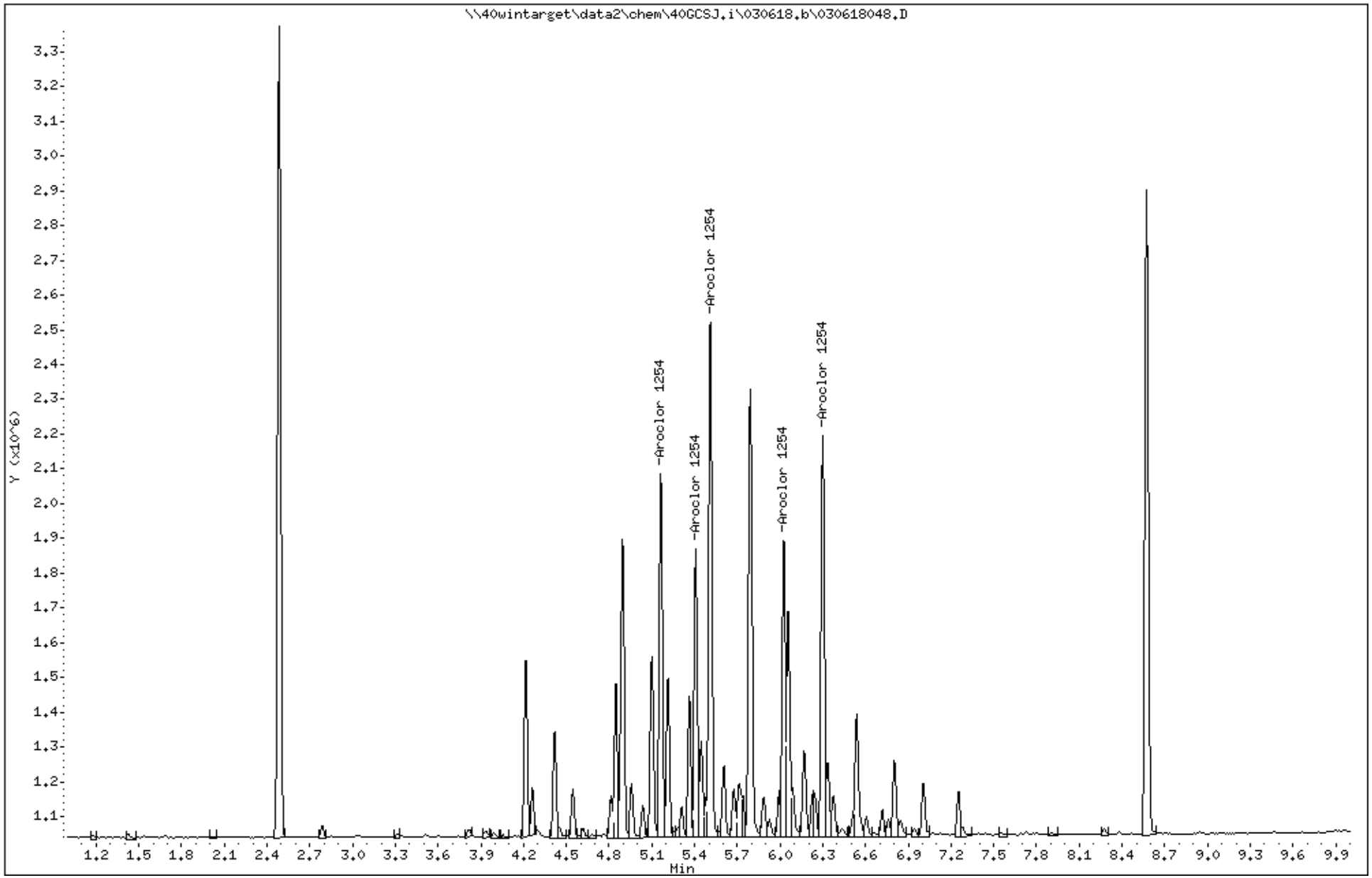
Instrument: 40GCSJ.i

Sample Info: 1254-CAL2C, 185553:1

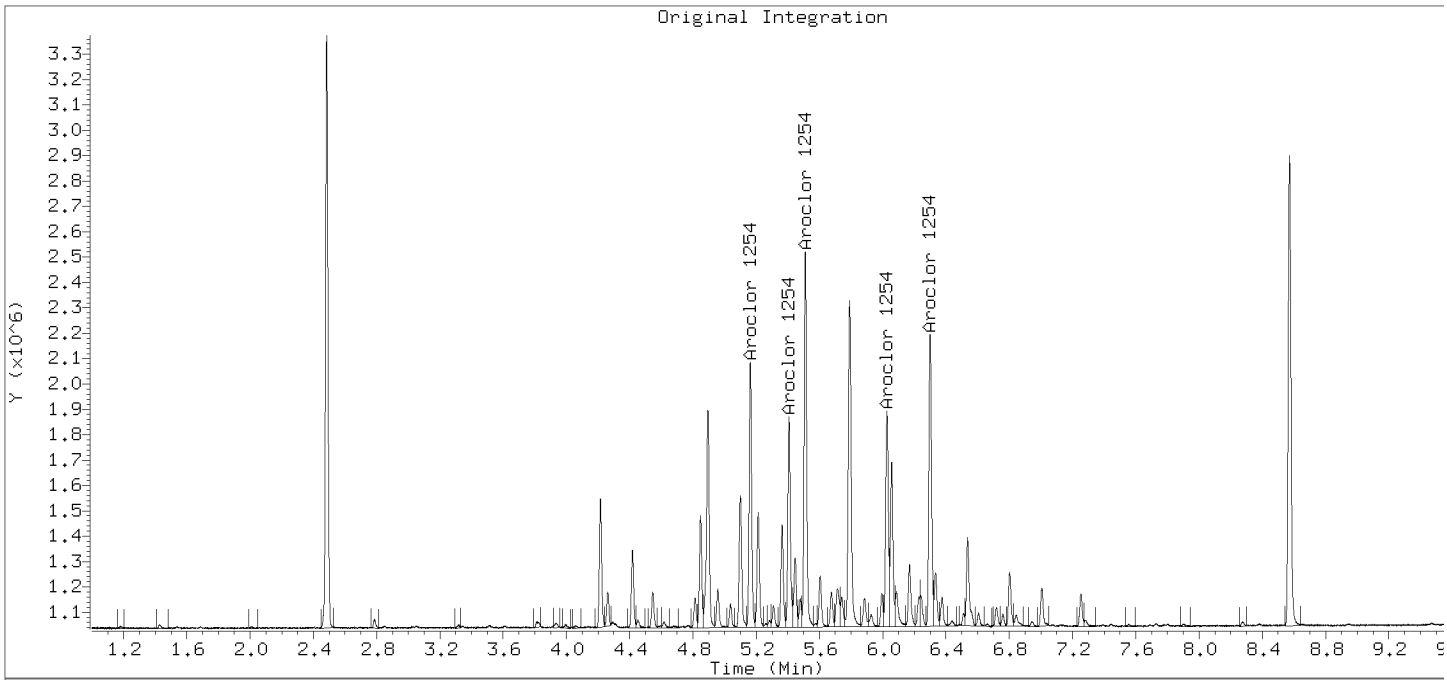
Operator: BLM

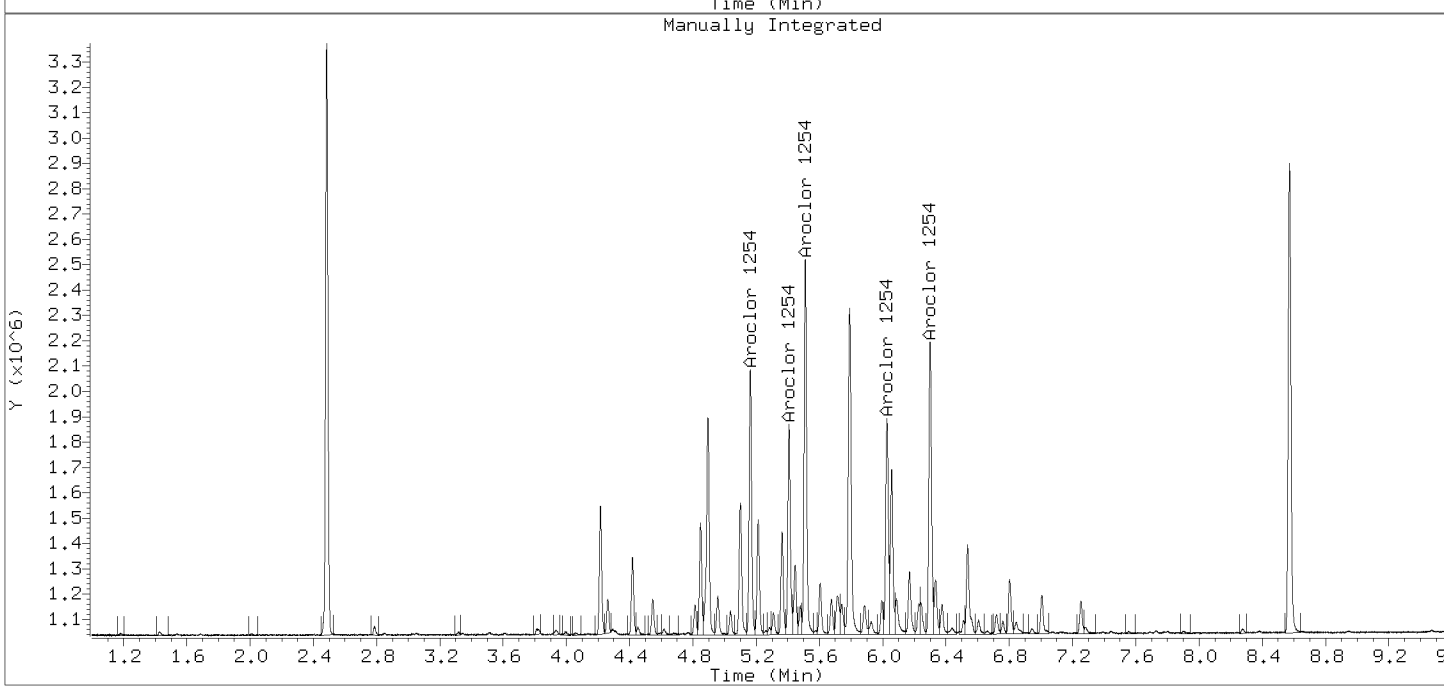
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:30

Client ID: 1254-CAL3C

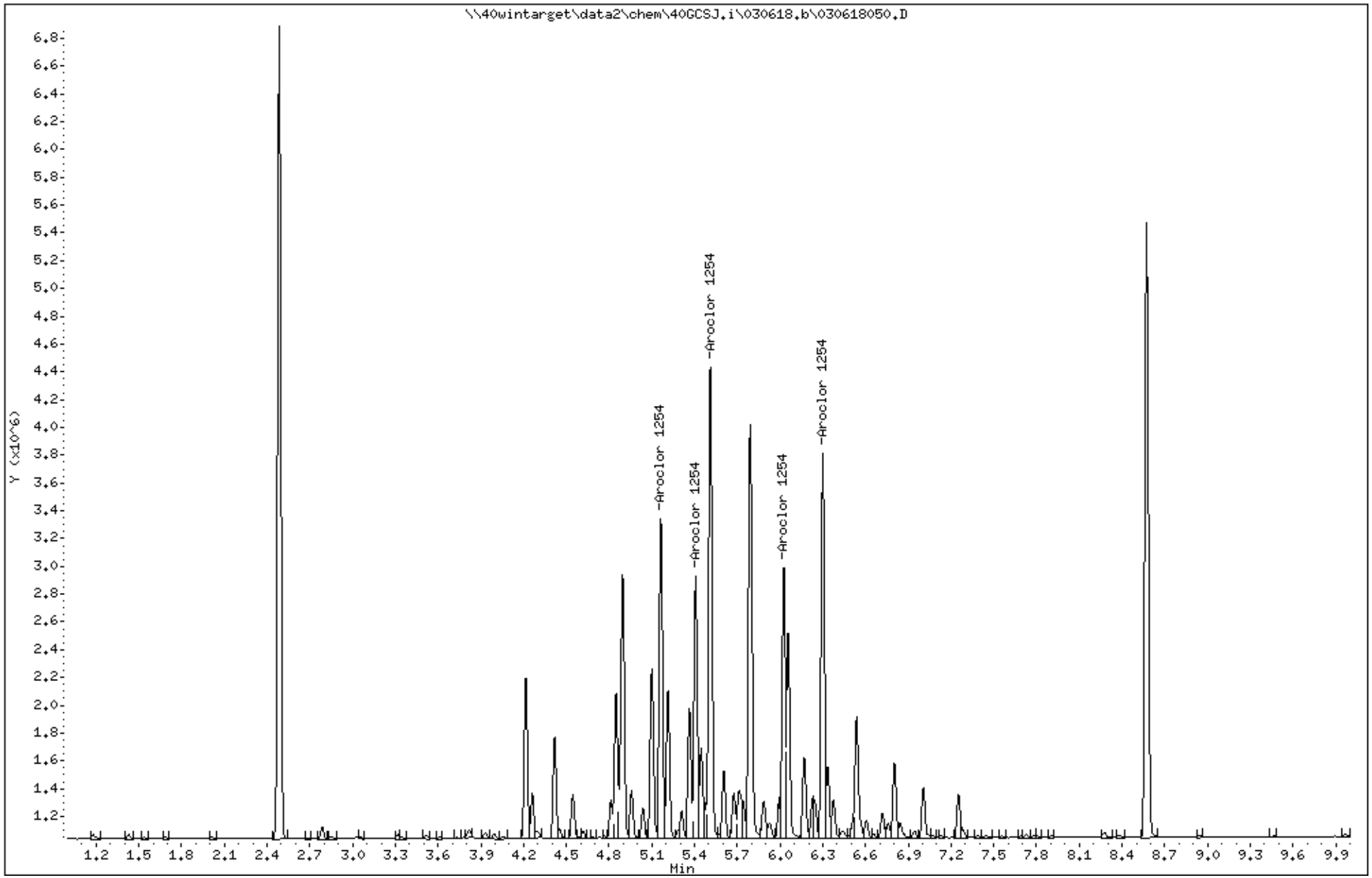
Instrument: 40GCSJ.i

Sample Info: 1254-CAL3C, 185554:1

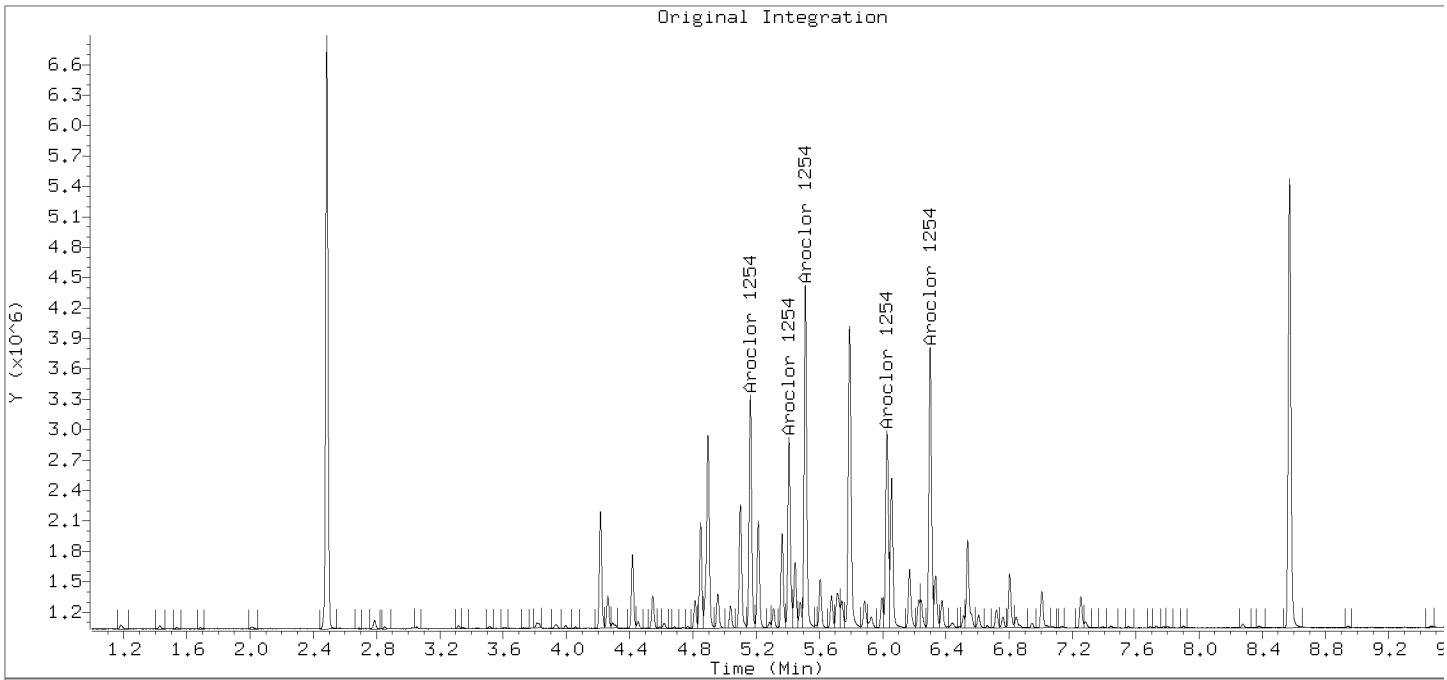
Operator: BLM

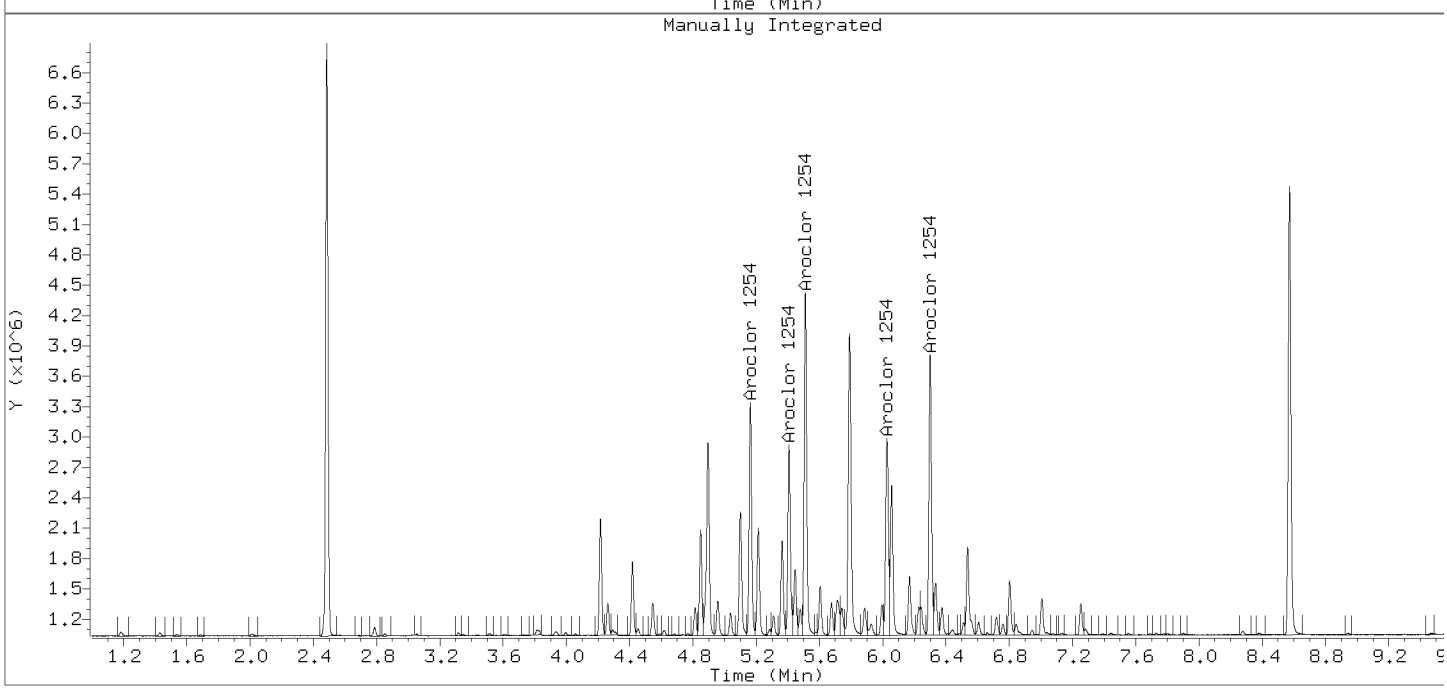
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 17:46

Client ID: 1254-CAL4C

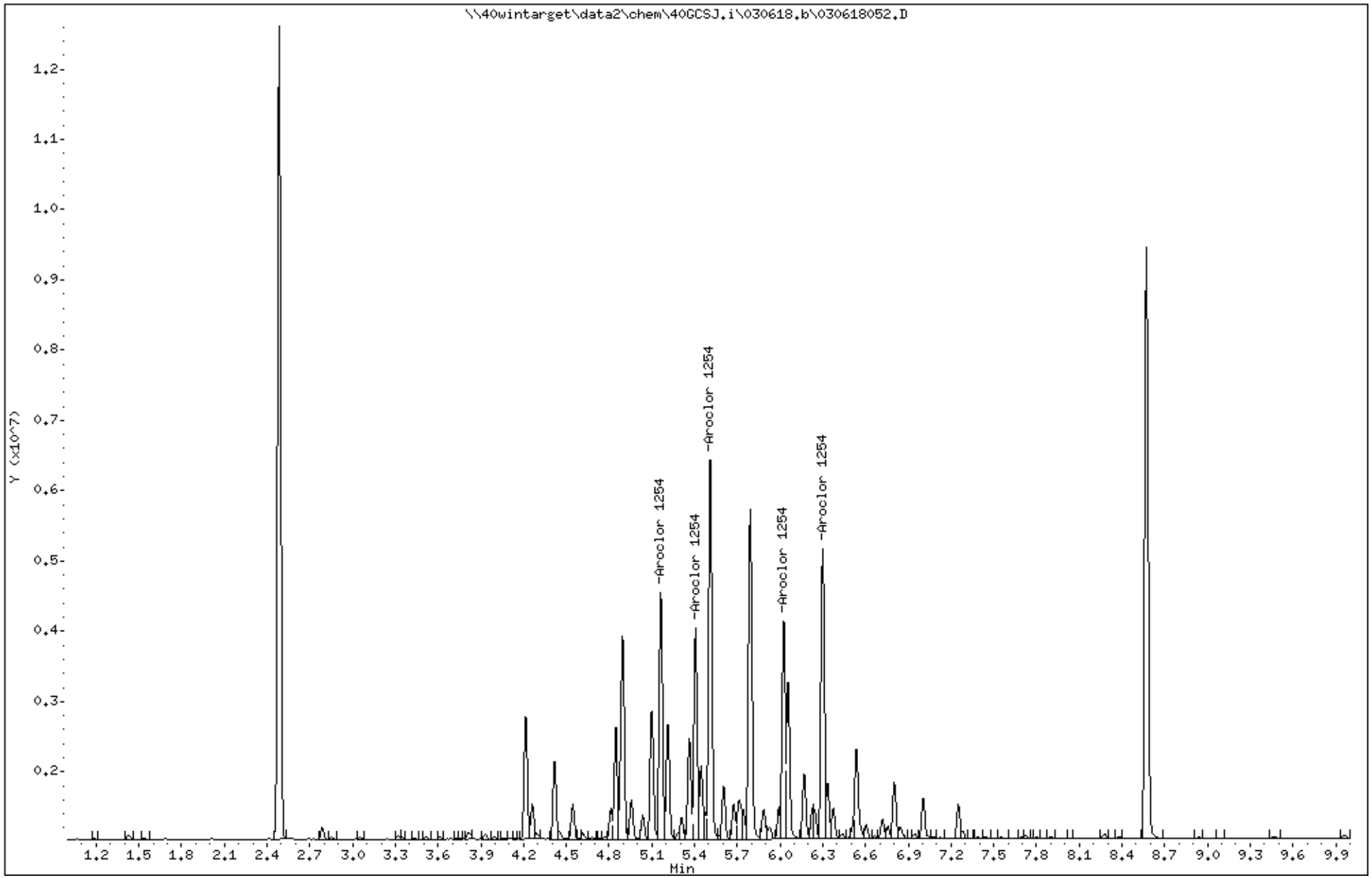
Instrument: 40GCSJ.i

Sample Info: 1254-CAL4C, 185555:1

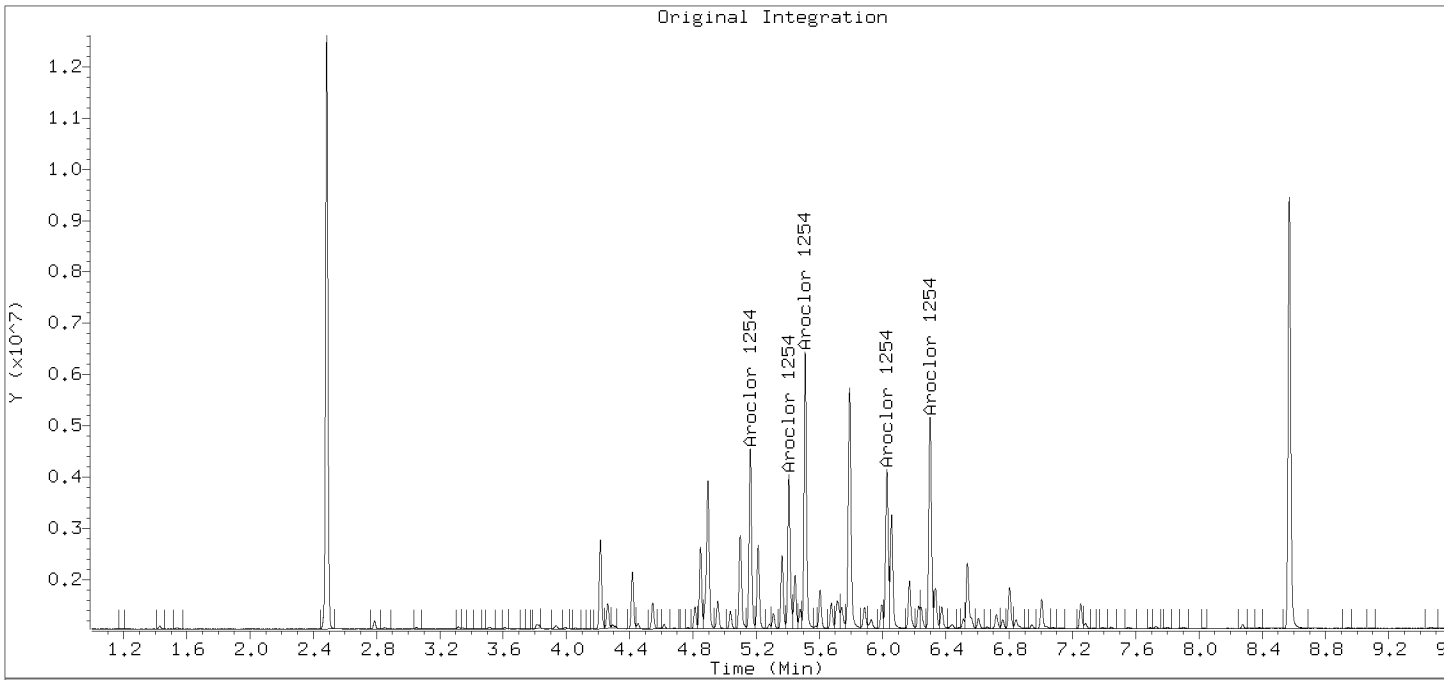
Operator: BLM

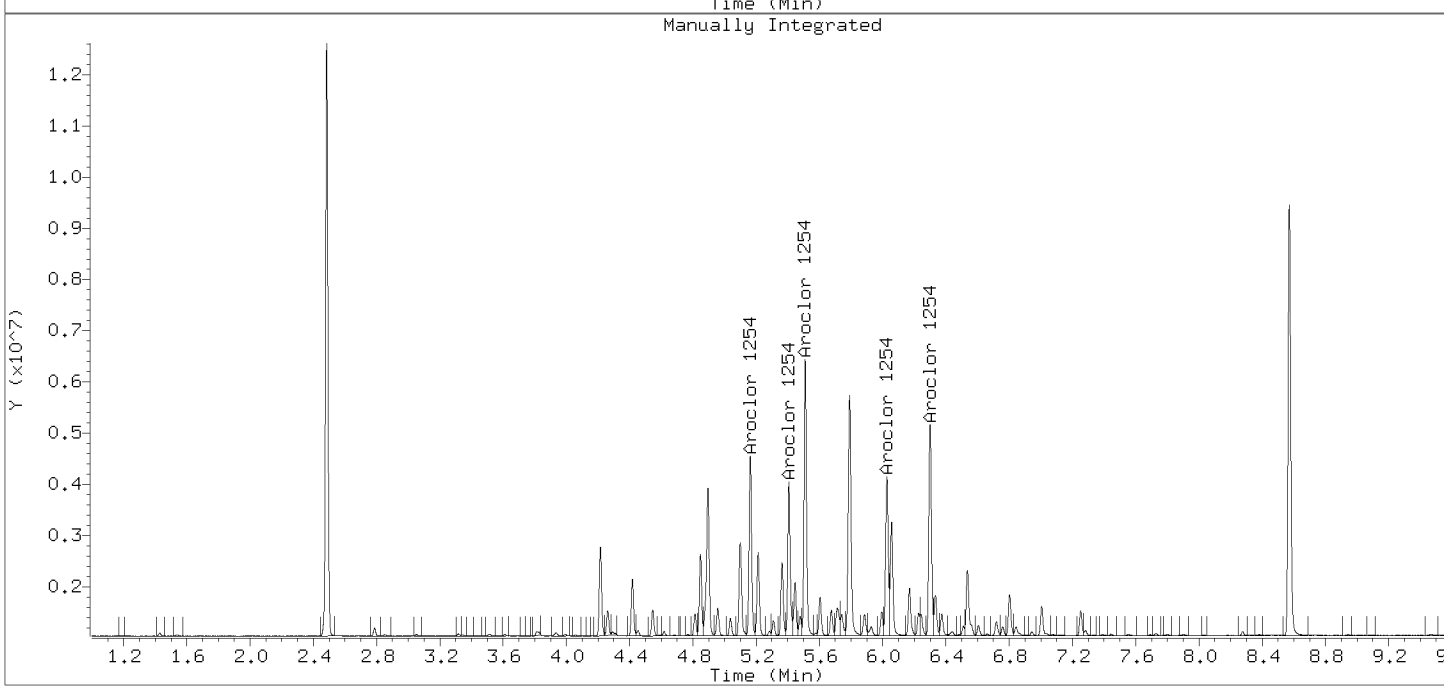
Column phase: ZB-1ms

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.

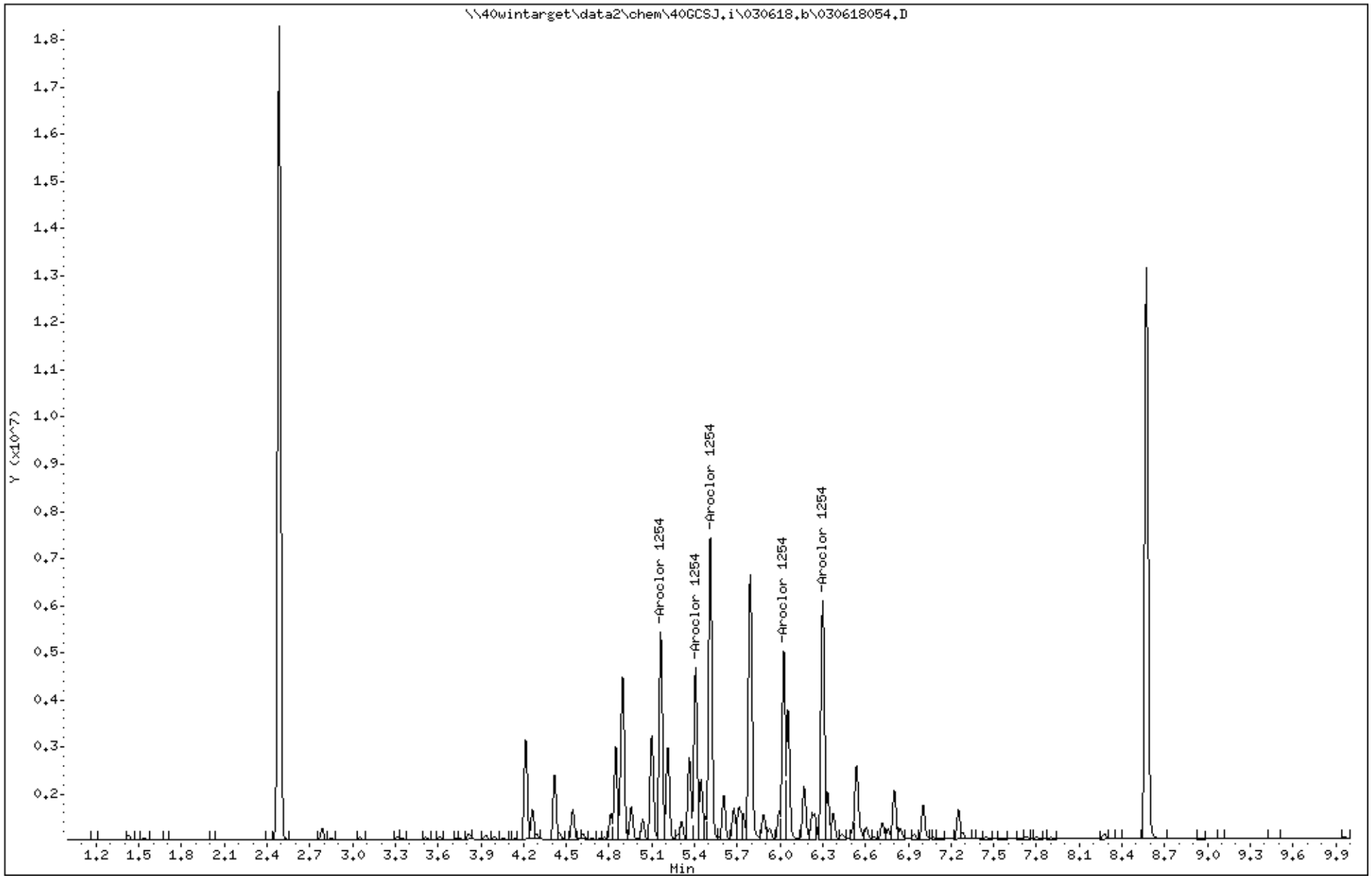
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618054.D
Date : 06-MAR-2018 18:02
Client ID: 1254-CAL5C
Sample Info: 1254-CAL5C, 185556:1

Column phase: ZB-1ms

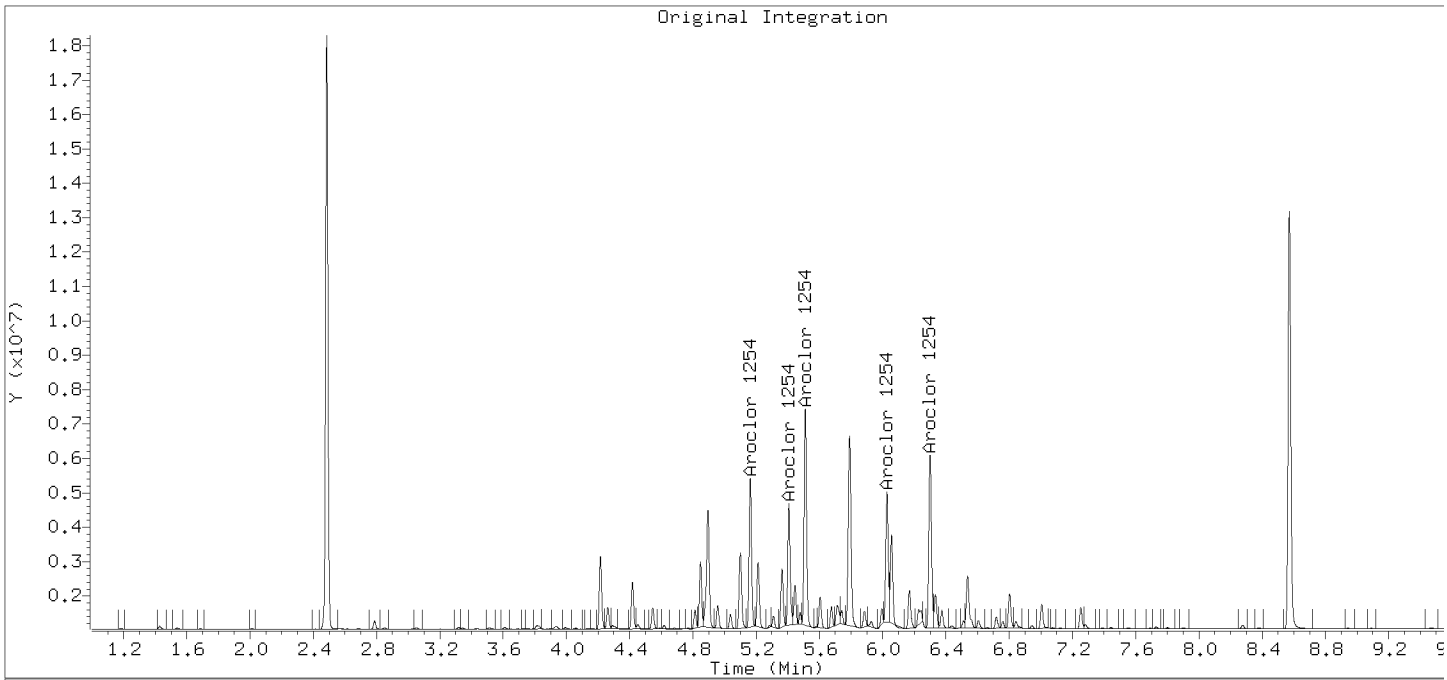
Instrument: 40GCSJ.i

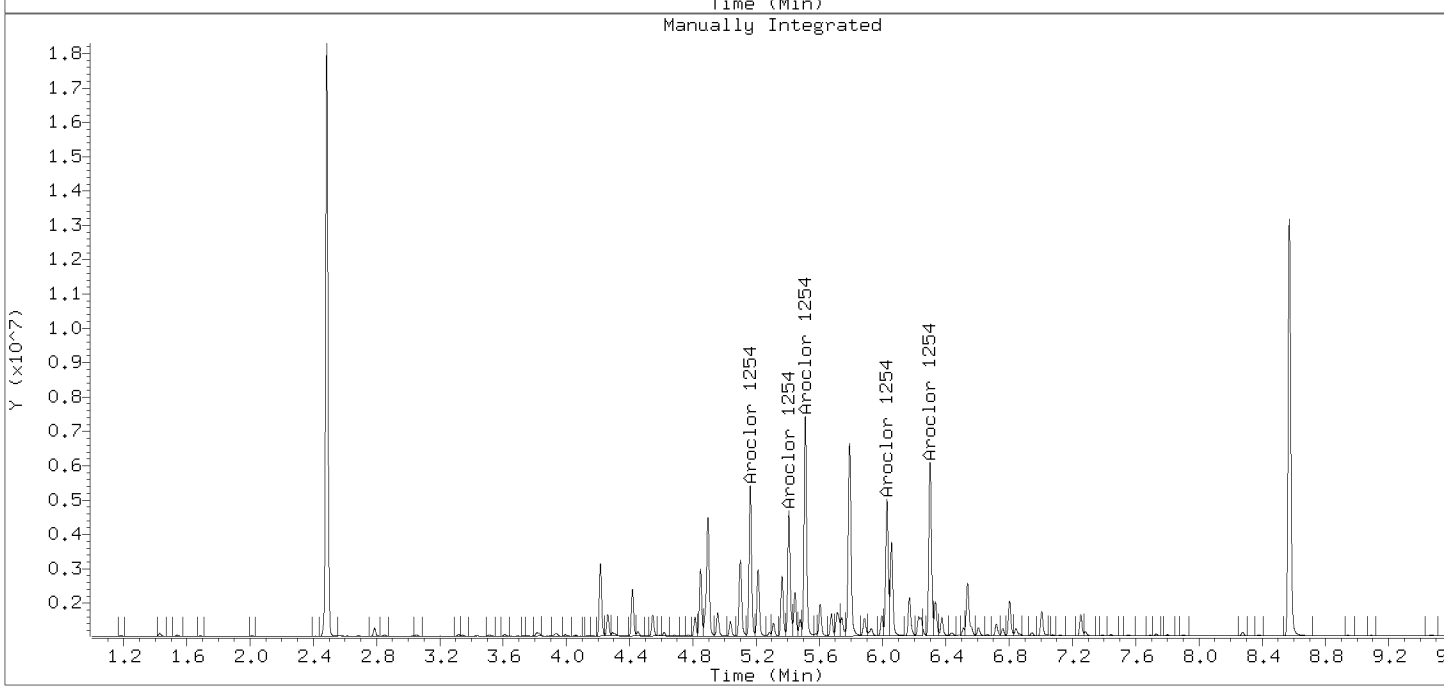
Operator: BLM

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 18:34

Client ID: 1660-CAL1A

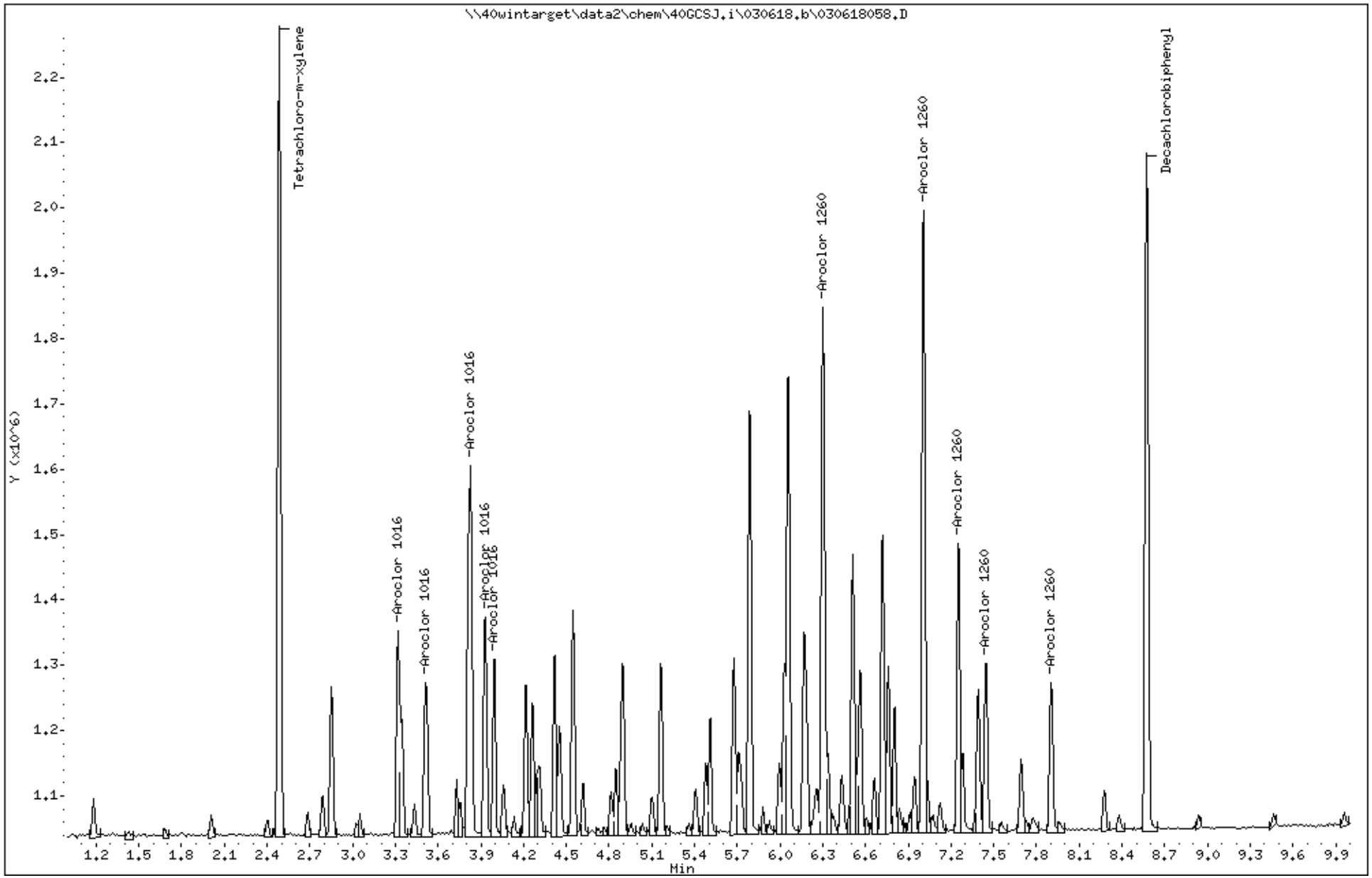
Instrument: 40GCSJ.i

Sample Info: 1660-CAL1A, 188136:1

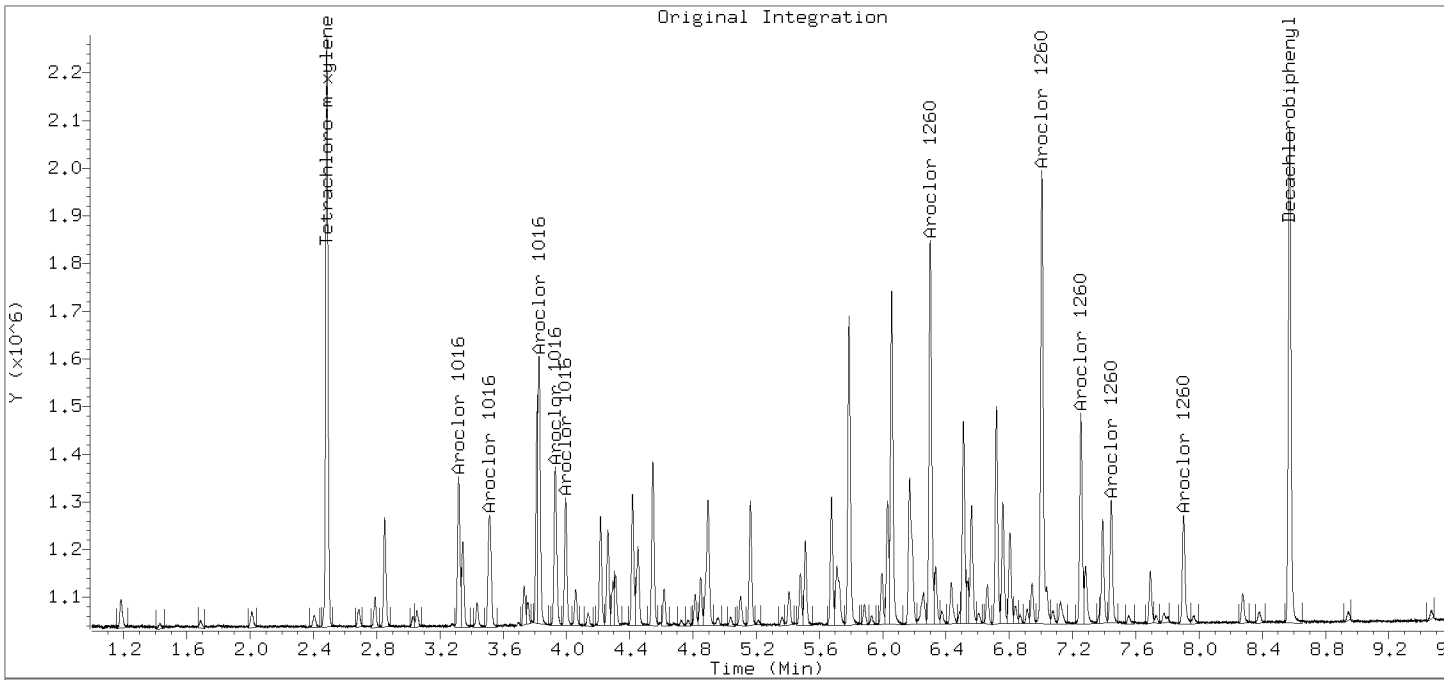
Operator: BLM

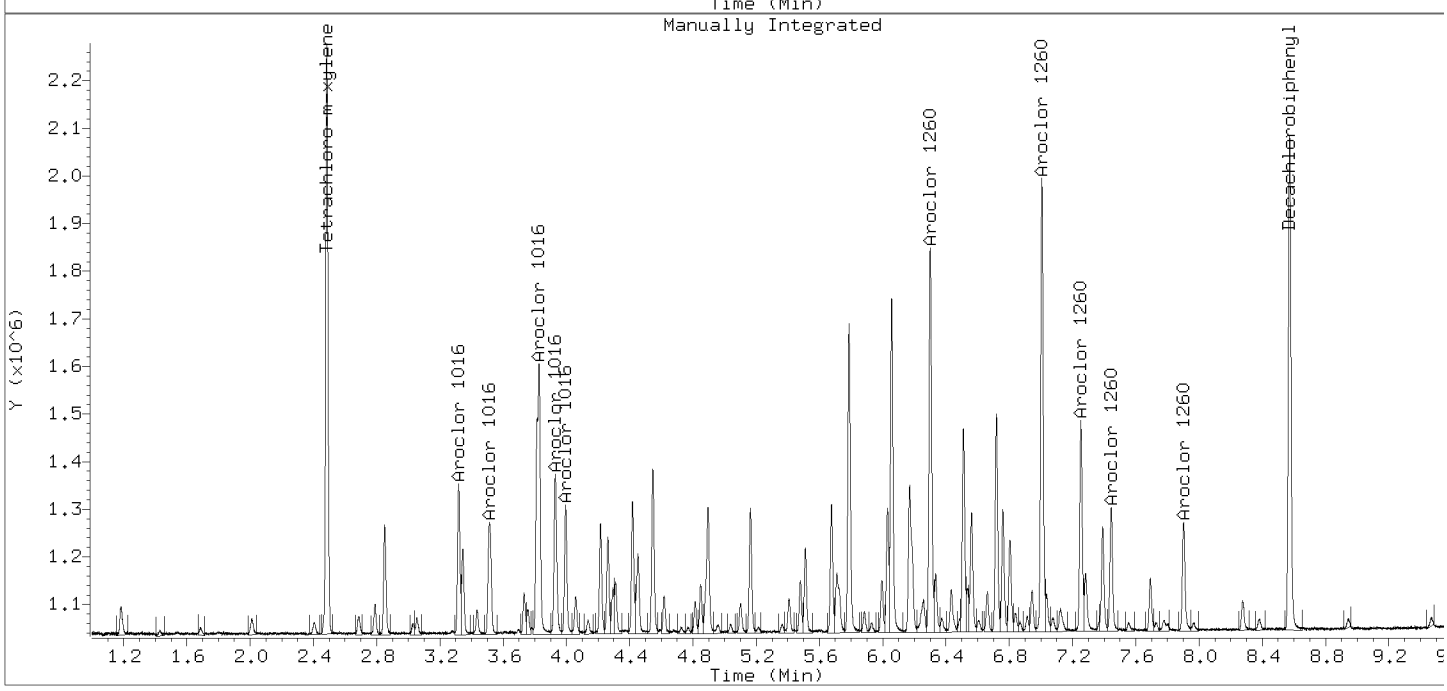
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

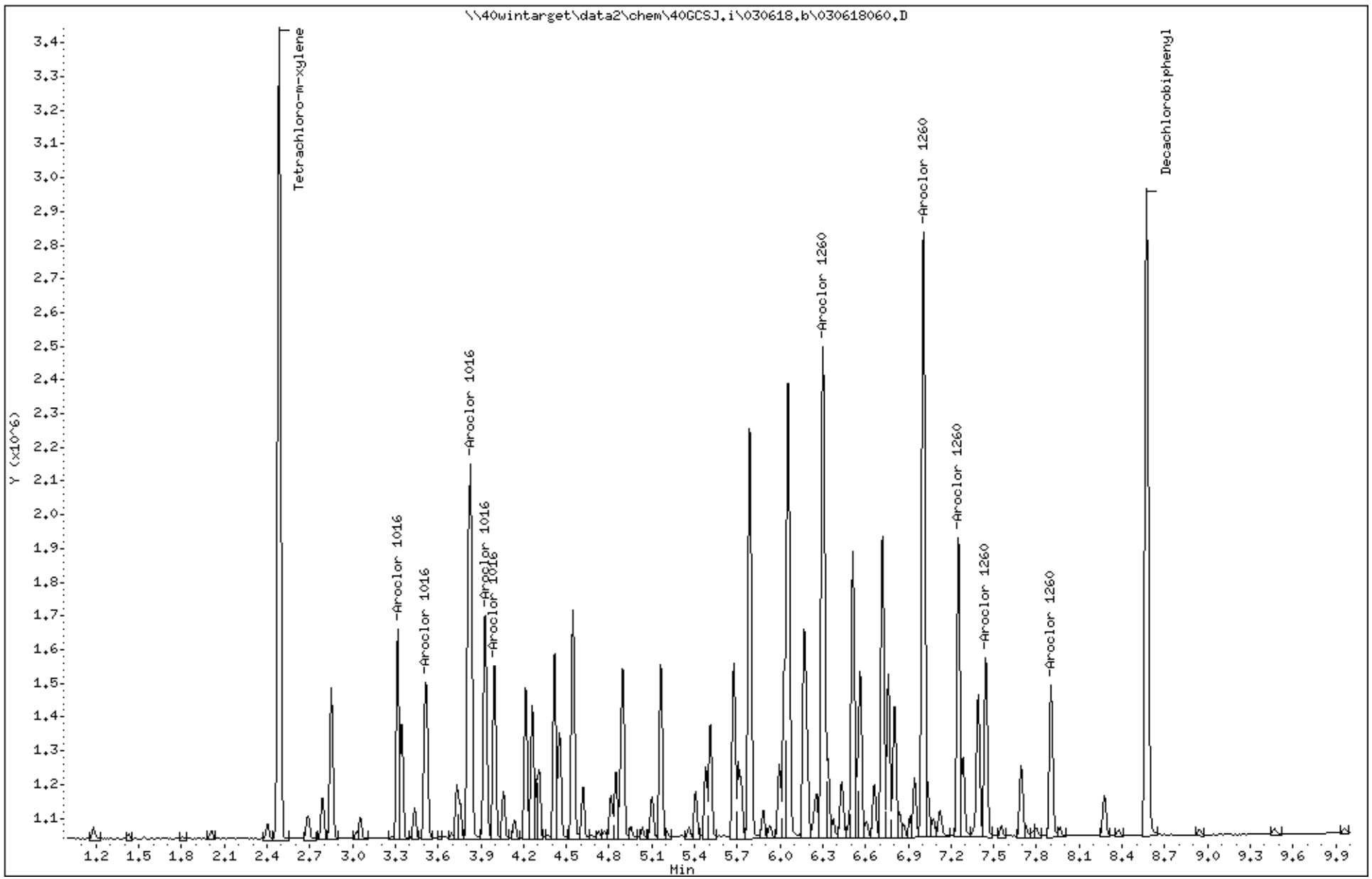
QC Flag Legend

Review Codes Legend

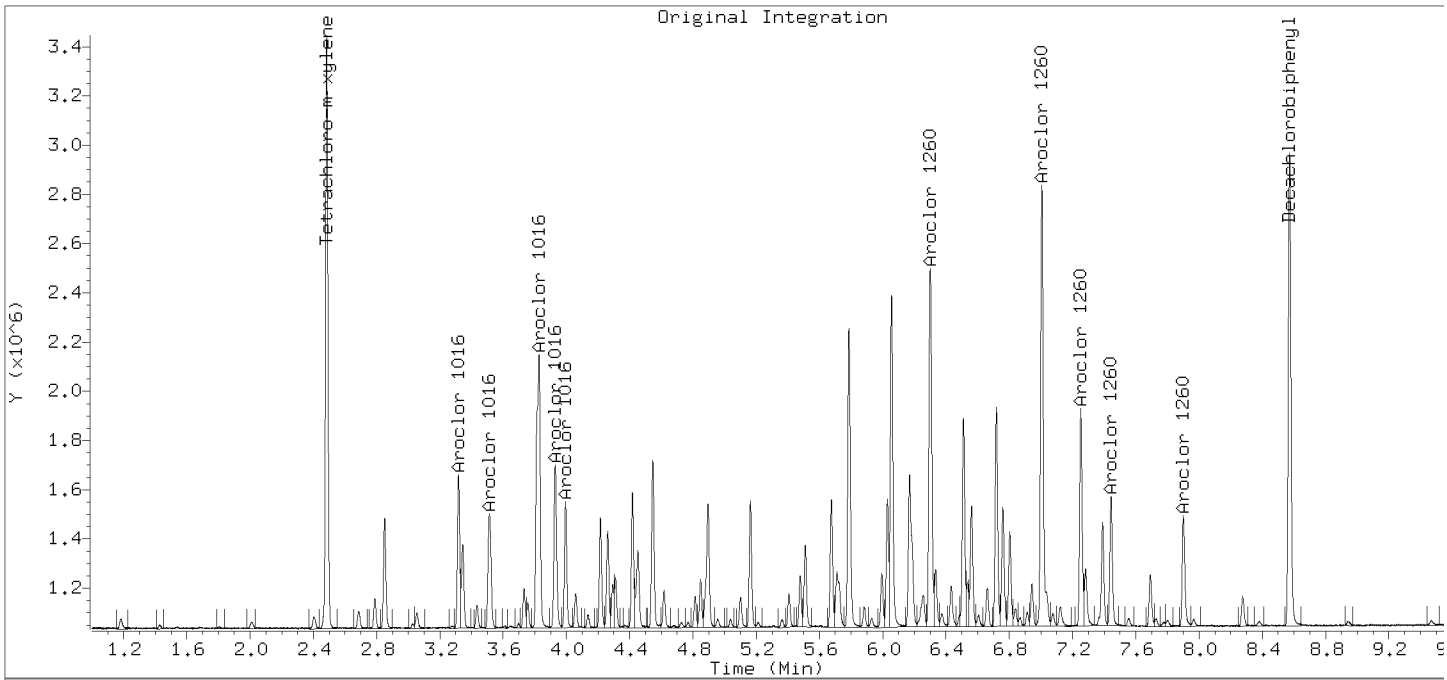
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

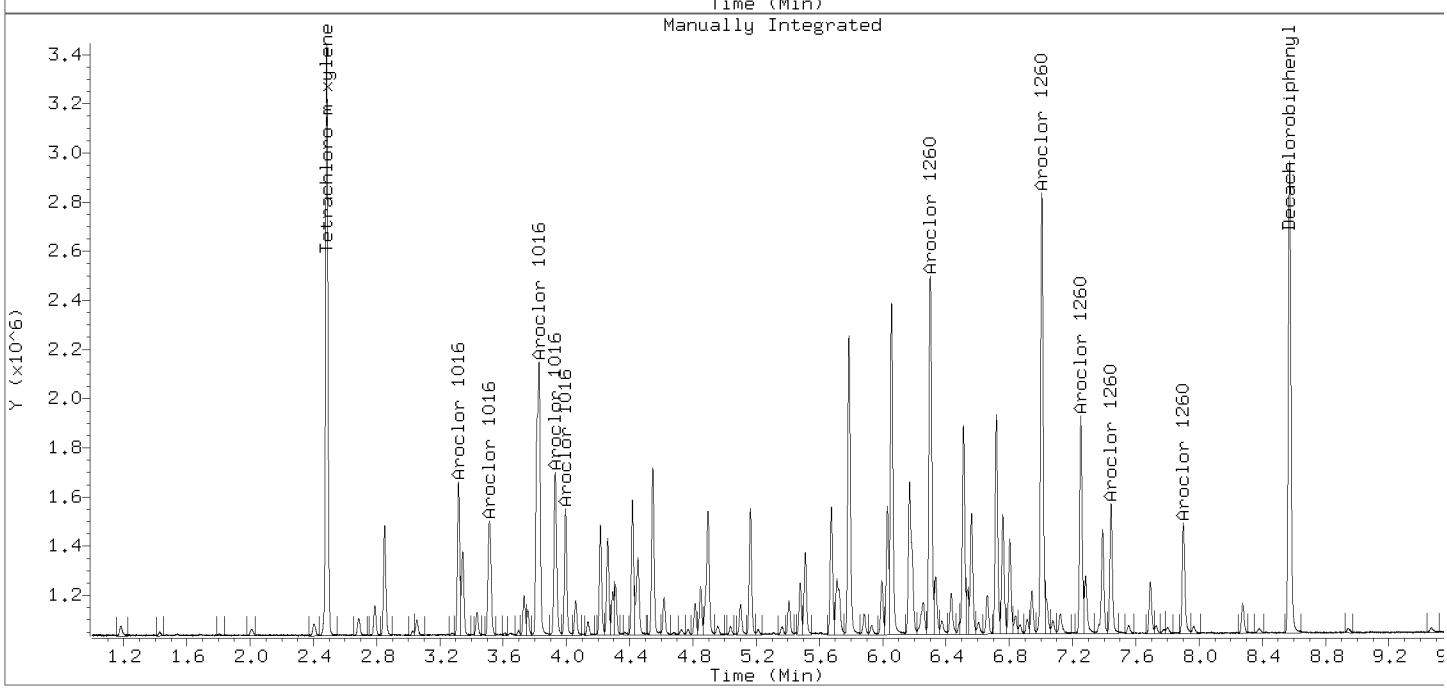
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618060.D
Date : 06-MAR-2018 18:51
Client ID: 1660-CAL2A
Sample Info: 1660-CAL2A, 185558:1

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



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





Manually Integrated Compounds

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

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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.

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

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

QC Flag Legend

M - Compound response manually integrated.

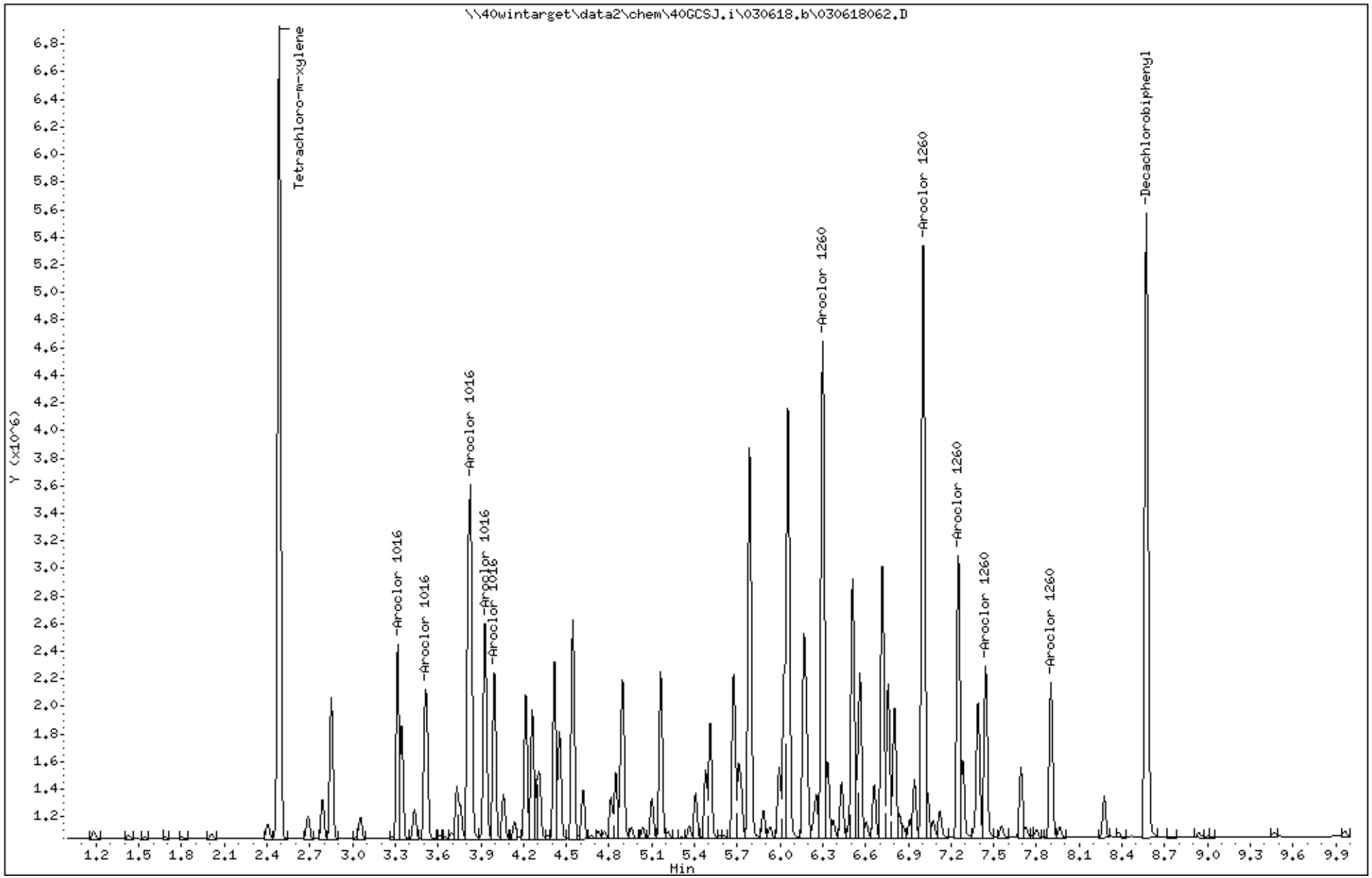
QC Flag Legend

Review Codes Legend

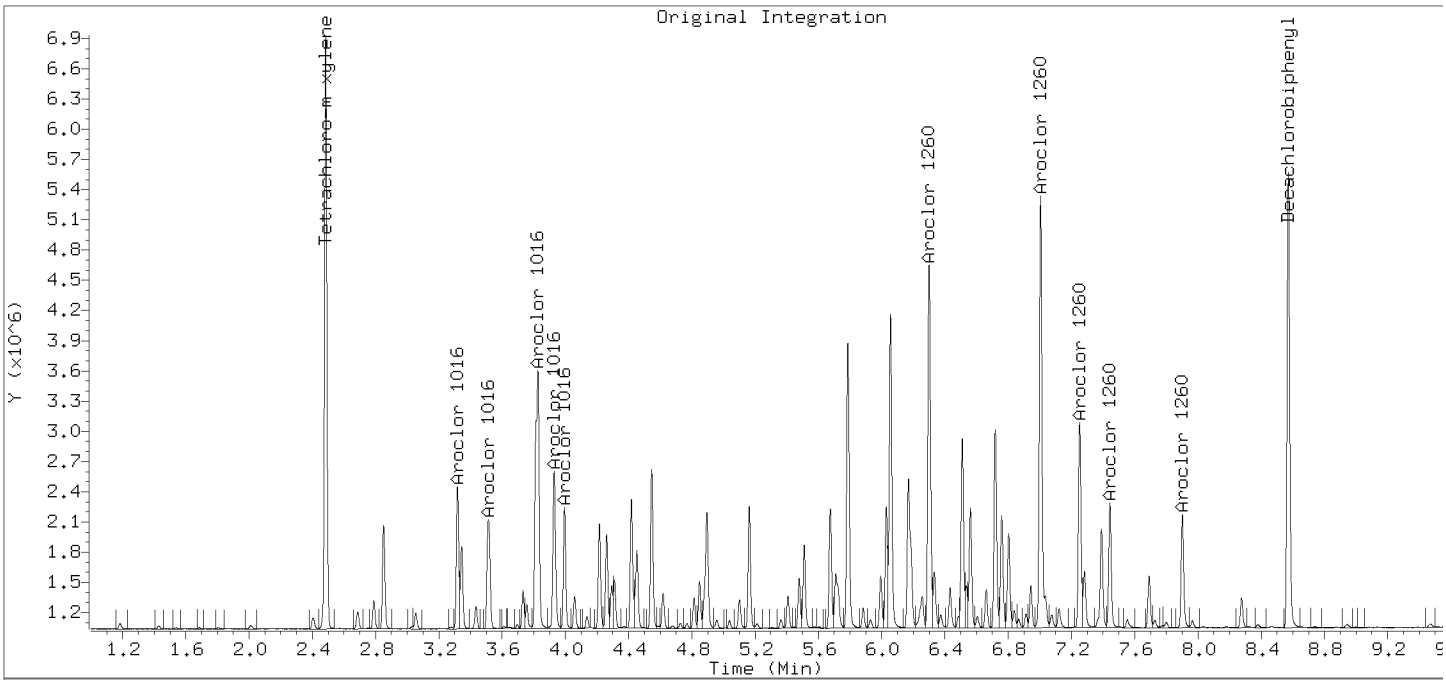
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

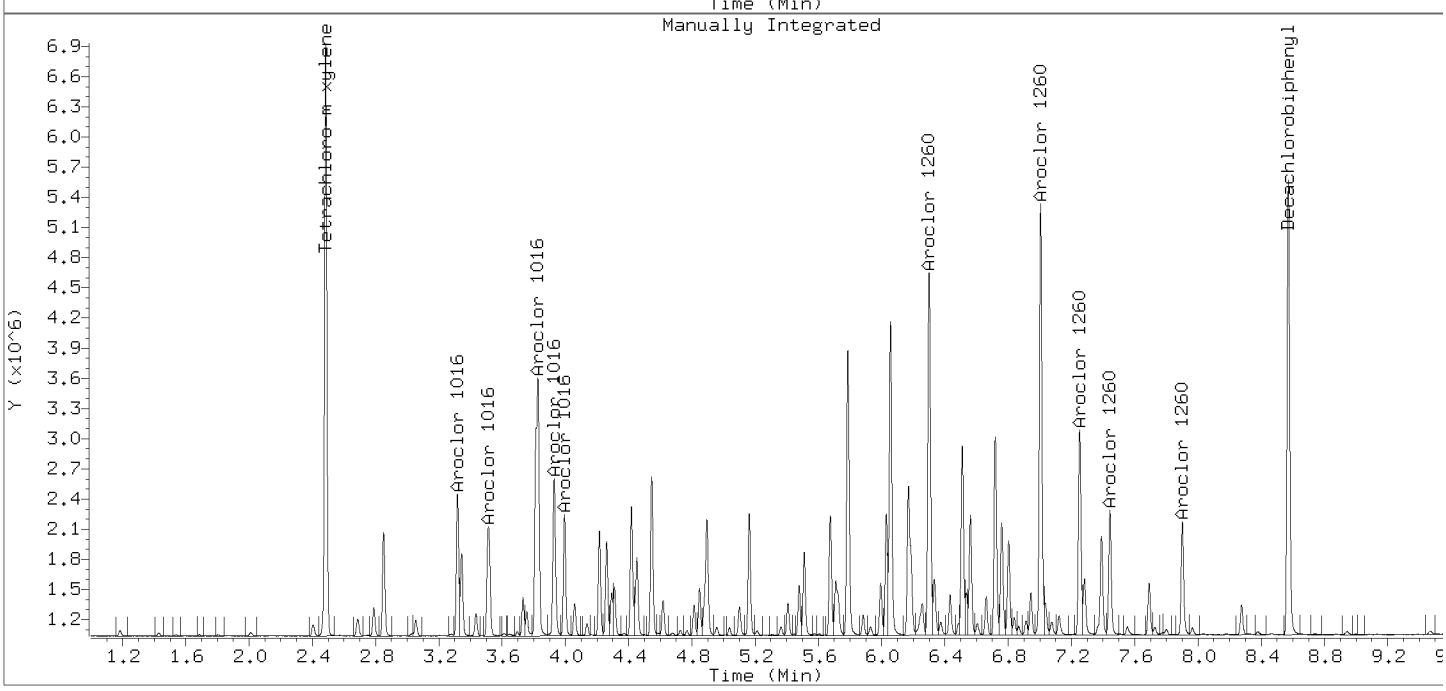
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618062.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

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

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

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

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

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 06-MAR-2018 19:23

Client ID: 1660-CAL4A

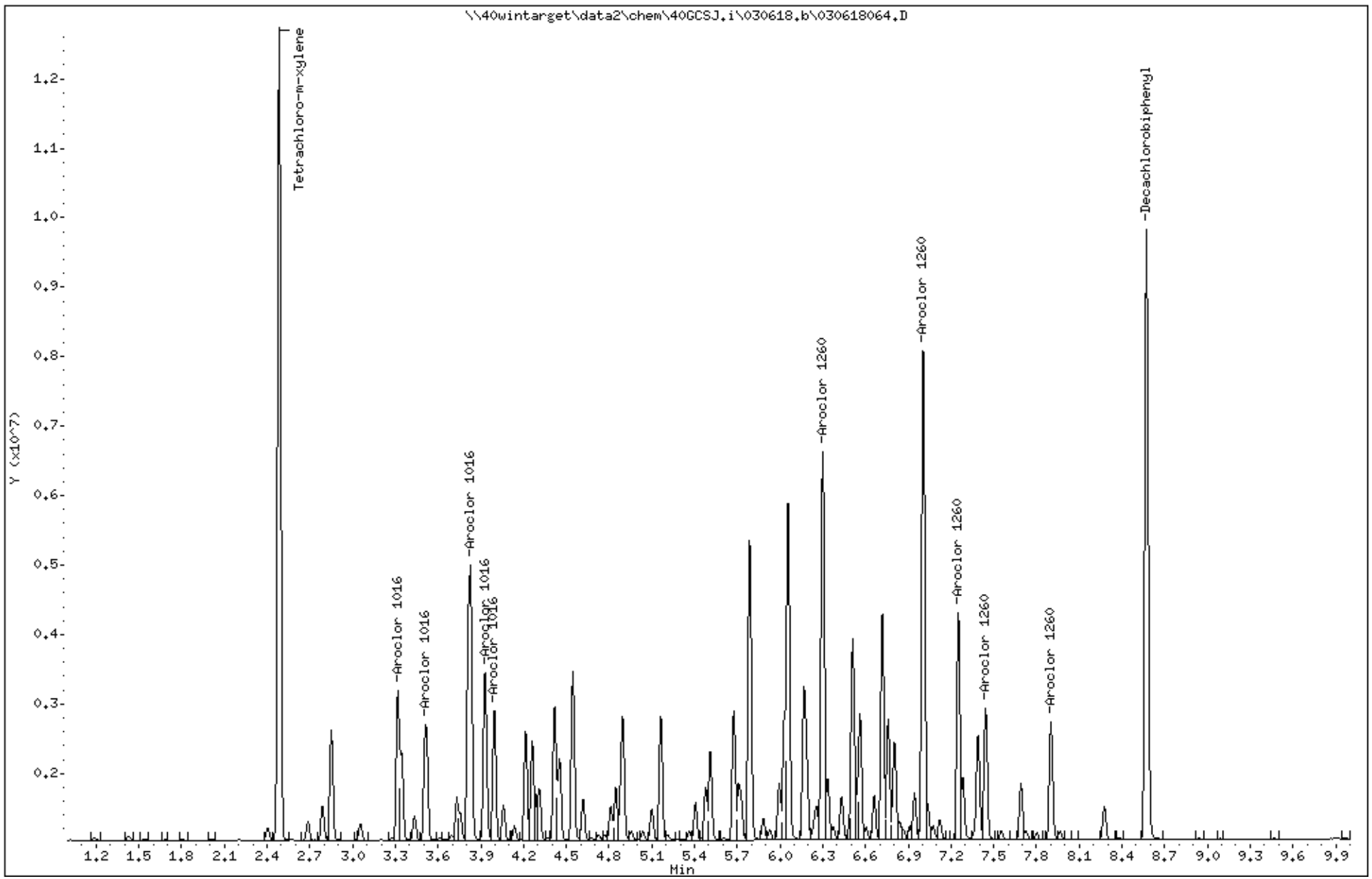
Instrument: 40GCSJ.i

Sample Info: 1660-CAL4A, 185560:1

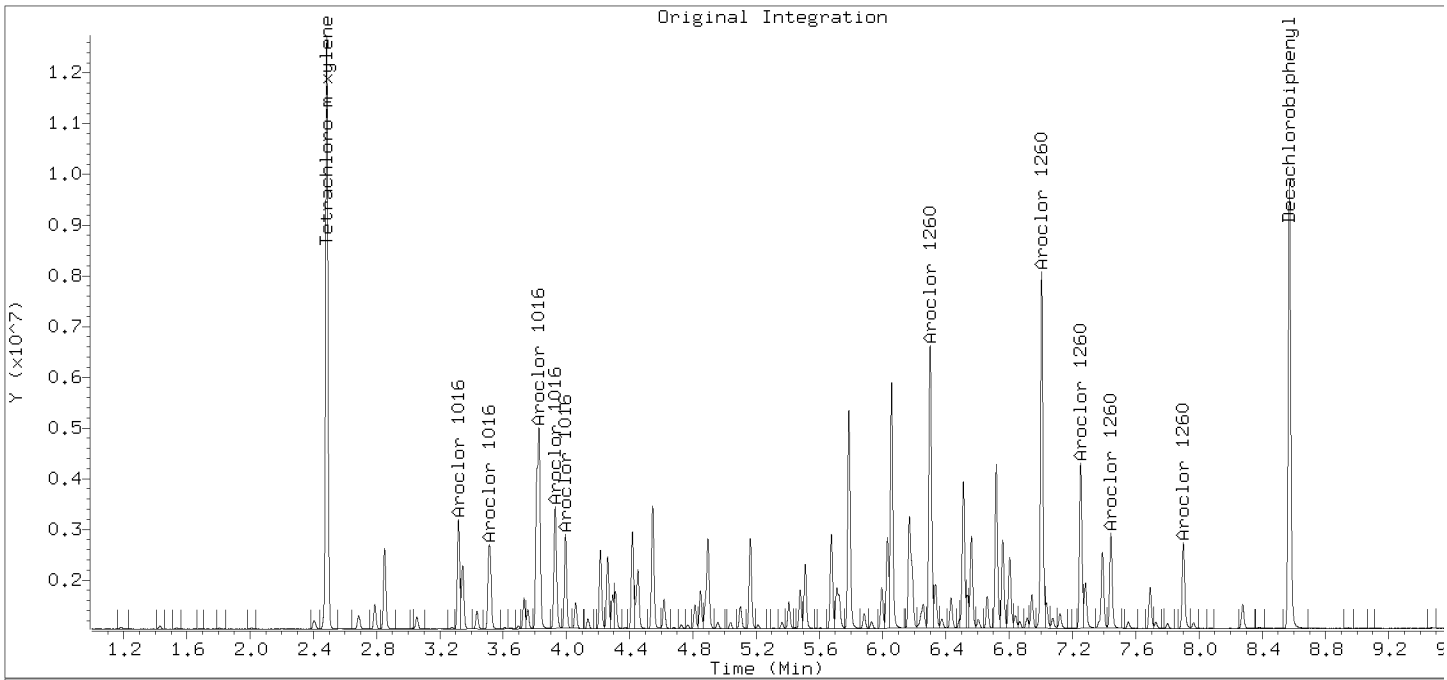
Operator: BLM

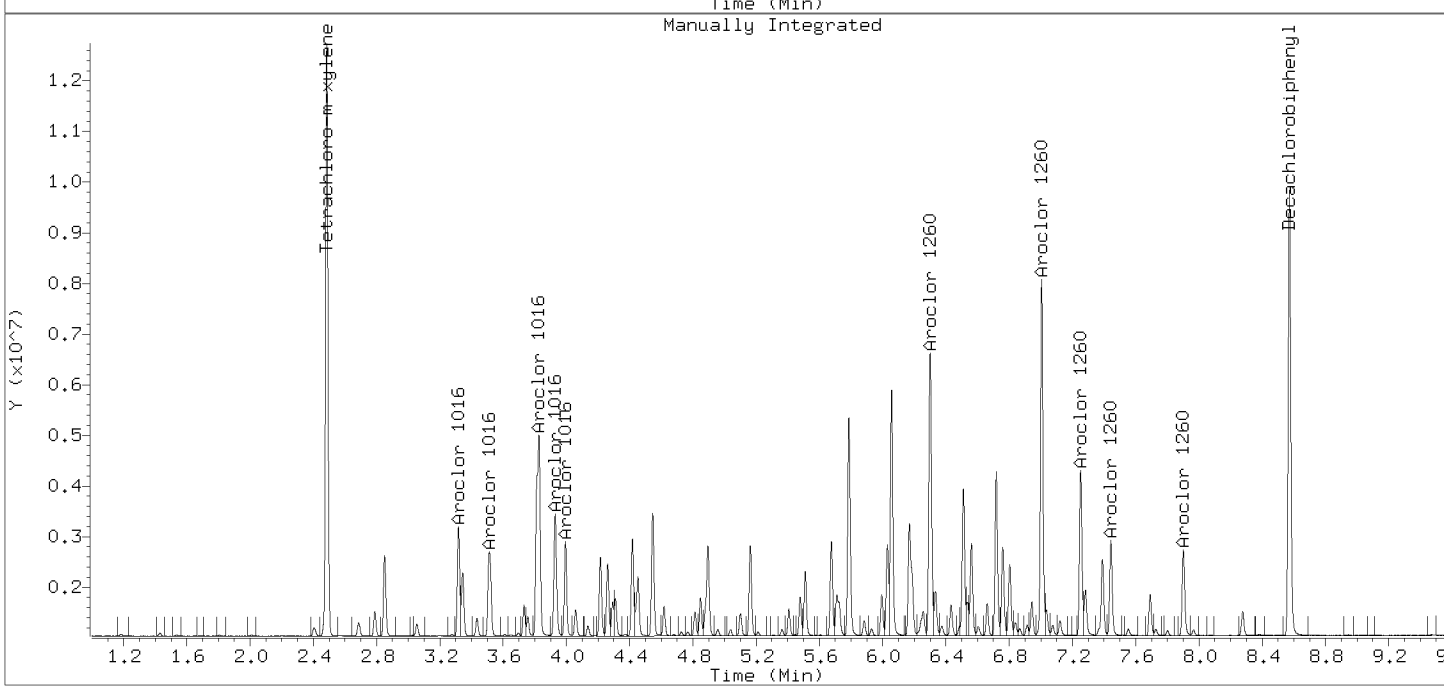
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

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

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618066.D

Date : 06-MAR-2018 19:39

Client ID: 1660-CAL5A

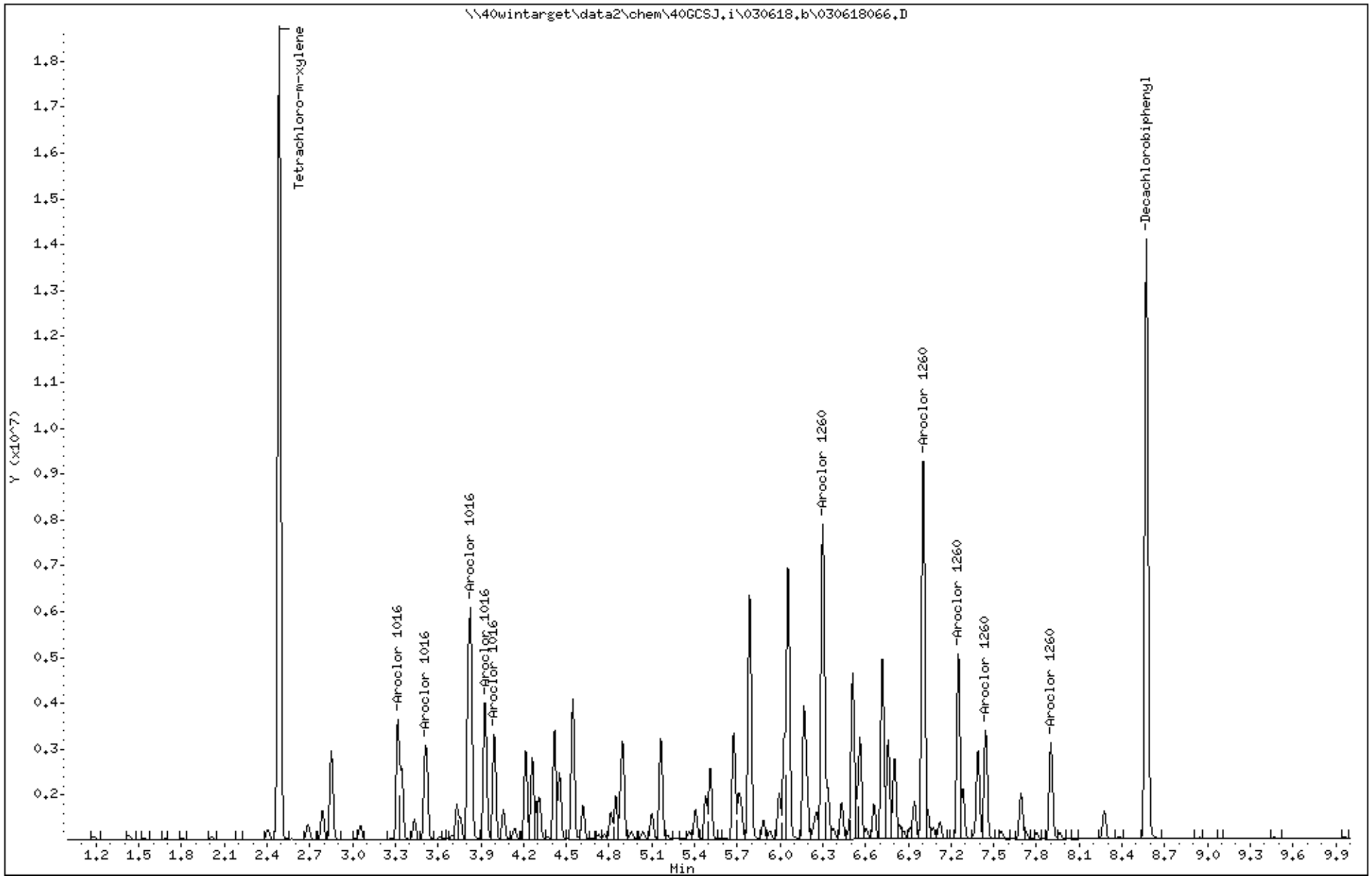
Instrument: 40GCSJ.i

Sample Info: 1660-CAL5A, 185561:1

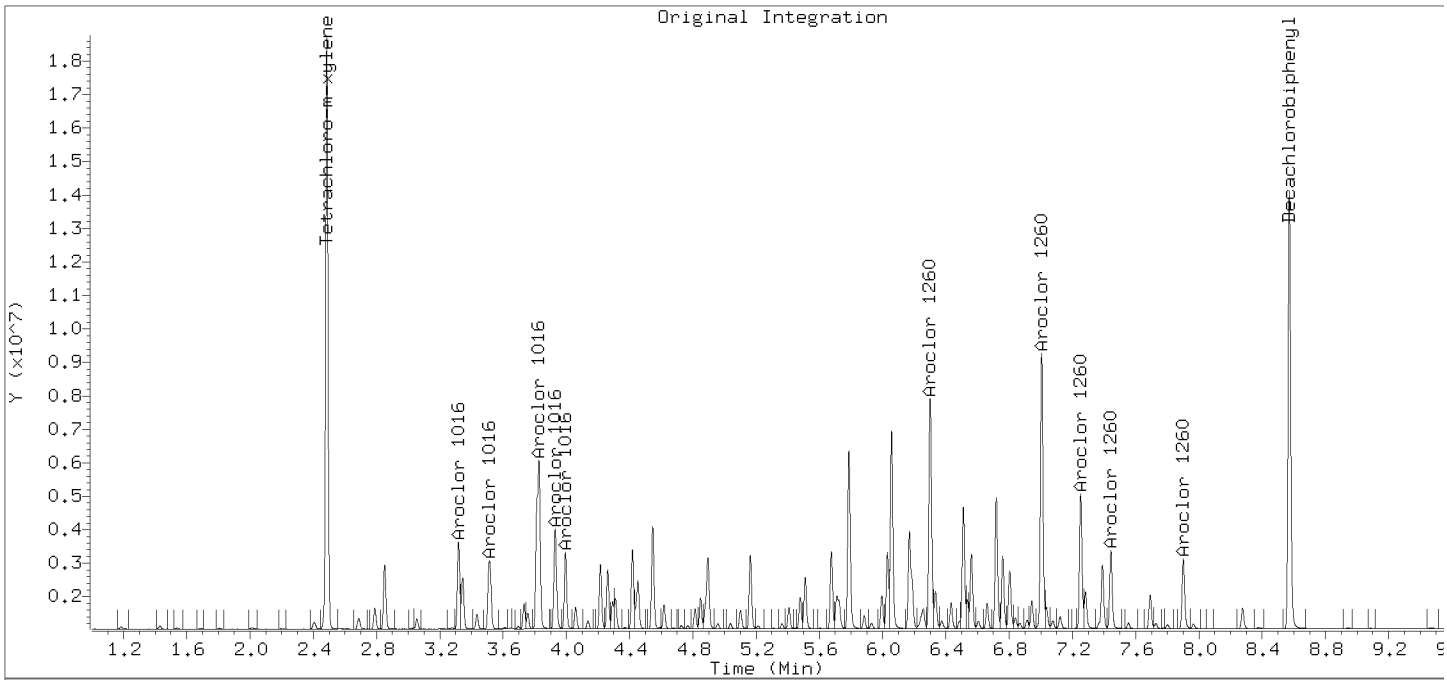
Operator: BLM

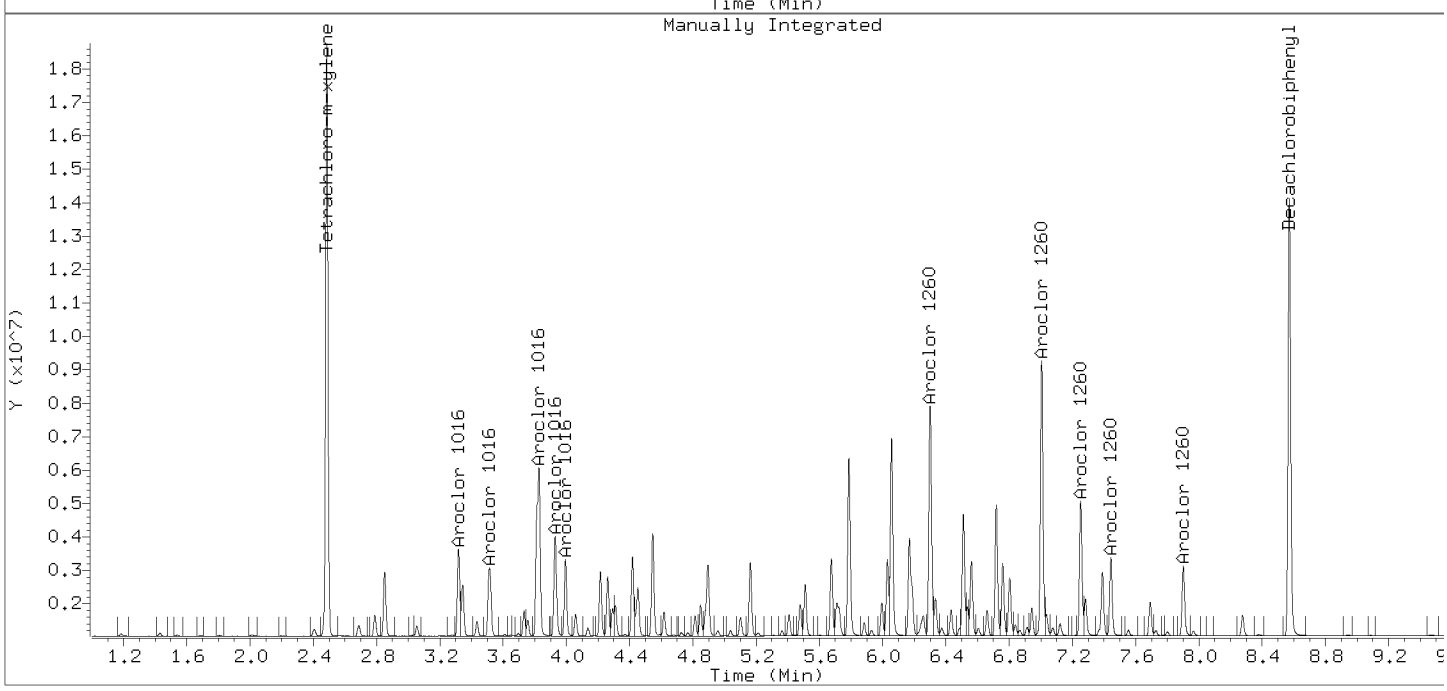
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

PCB Low Level Calibration % Difference Check

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

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

SAMPLE NO.

10757904ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40157487

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.: 40157487

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.: 40157487

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.: 40157487

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.: 40157487

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.

10868270CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/02/2018 Time: 15:12

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

Lab File ID: 040218.B\040218004.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157487

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.851	2.817	2.885	2500024.00	2651620.00	6.0638
Aroclor 1232	2	Averaged	3.514	3.479	3.547	1339782.00	1416674.00	5.7391
Aroclor 1232	3	Averaged	3.826	3.793	3.861	3749726.00	3905832.00	4.1631
Aroclor 1232	4	Averaged	3.929	3.895	3.963	1606492.00	1681896.00	4.6937
Aroclor 1232	5	Averaged	3.994	3.961	4.029	1091876.00	1098048.00	0.5653
Decachlorobiphenyl (S)		Averaged	8.571	8.537	8.605	109559990.	106713780.	-2.5979
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	121875740.	-1.1512

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

SAMPLE NO.

10868271CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/02/2018 Time: 18:23

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

Lab File ID: 040218.B\040218016.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157487

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	2693620.00	6.3328
Aroclor 1242	2	Averaged	3.513	3.479	3.547	2520033.45	2664902.00	5.7487
Aroclor 1242	3	Averaged	3.825	3.793	3.861	7116457.95	7623904.00	7.1306
Aroclor 1242	4	Averaged	3.928	3.895	3.963	3041534.65	3270266.00	7.5203
Aroclor 1242	5	Averaged	3.993	3.961	4.029	2047746.90	2165354.00	5.7432
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	113468160.	3.5672
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	126030000.	2.2182

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

SAMPLE NO.

10868272CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/02/2018 Time: 21:33

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

Lab File ID: 040218.B\040218028.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157487

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	2396194.00	2.2715
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4183040.00	0.7887
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2062324.00	1.5883
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5219028.00	3.6047
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3682400.00	2.6154
Decachlorobiphenyl (S)		Averaged	8.57	8.537	8.605	109559990.	109549140.	-0.0099
Tetrachloro-m-xylene		Averaged	2.485	2.45	2.518	123295106.	119183460.	-3.3348

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

SAMPLE NO.

10883265CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40157487

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

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

SAMPLE NO.

10883264CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

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

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

SDG No.: 40157487

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

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

SAMPLE NO.

10893626CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 04/11/2018 Time: 01:59

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

Lab File ID: 041018.B\041018052.D
Init. Calib. Time(s): 11:02 19:39

SDG No.: 40157487

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	2471400.00	5.4813
Aroclor 1248	2	Averaged	4.545	4.512	4.58	4150305.95	4330402.00	4.3393
Aroclor 1248	3	Averaged	4.812	4.778	4.846	2030080.20	2169900.00	6.8874
Aroclor 1248	4	Averaged	4.878	4.845	4.913	5037445.65	5359698.00	6.3971
Aroclor 1248	5	Averaged	5.036	5.004	5.072	3588546.15	3846072.00	7.1763
Decachlorobiphenyl (S)		Averaged	8.569	8.537	8.605	109559990.	113293120.	3.4074
Tetrachloro-m-xylene		Averaged	2.484	2.45	2.518	123295106.	124476080.	0.9578

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

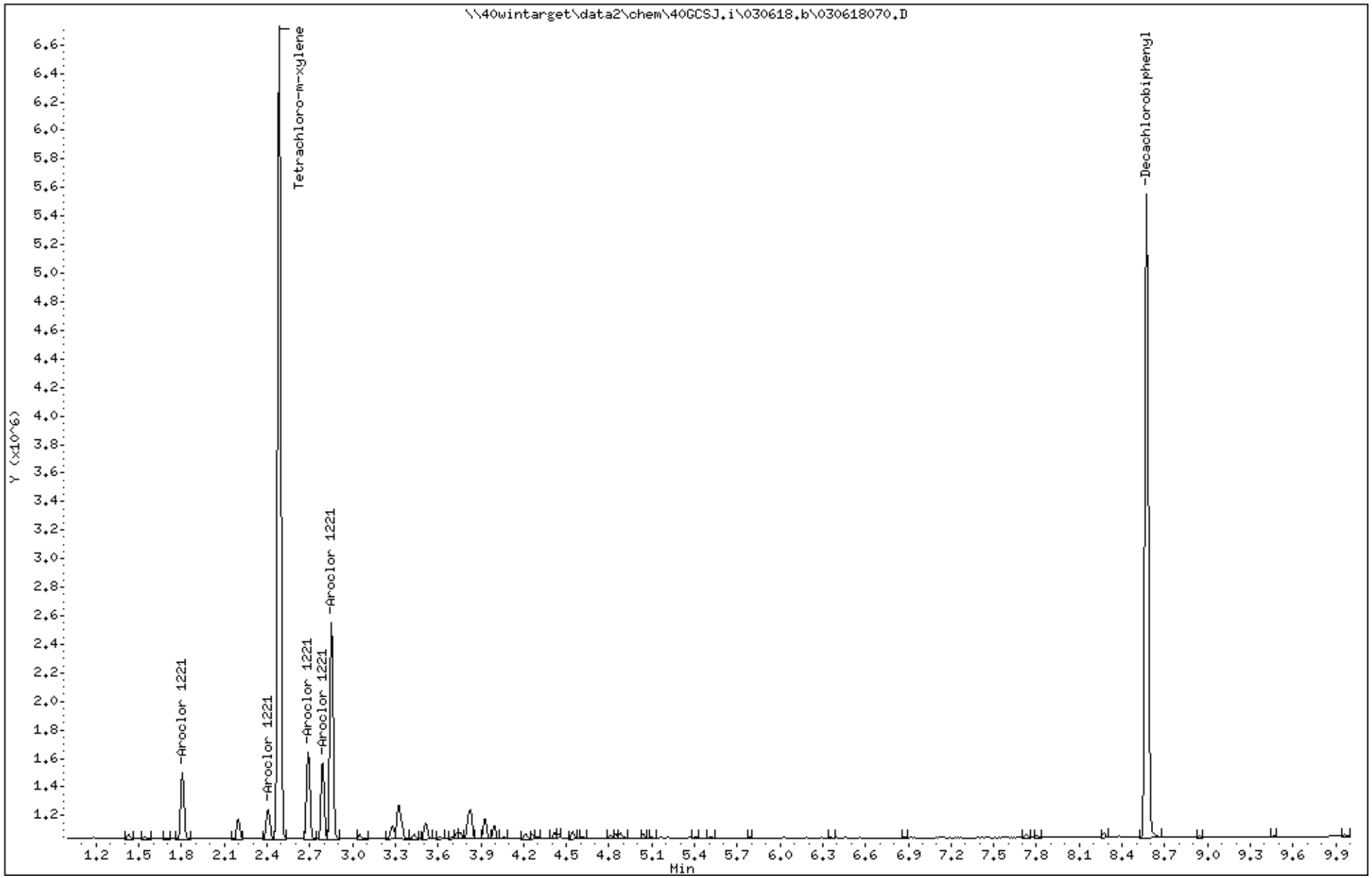
M - Compound response manually integrated.

Review Codes Legend

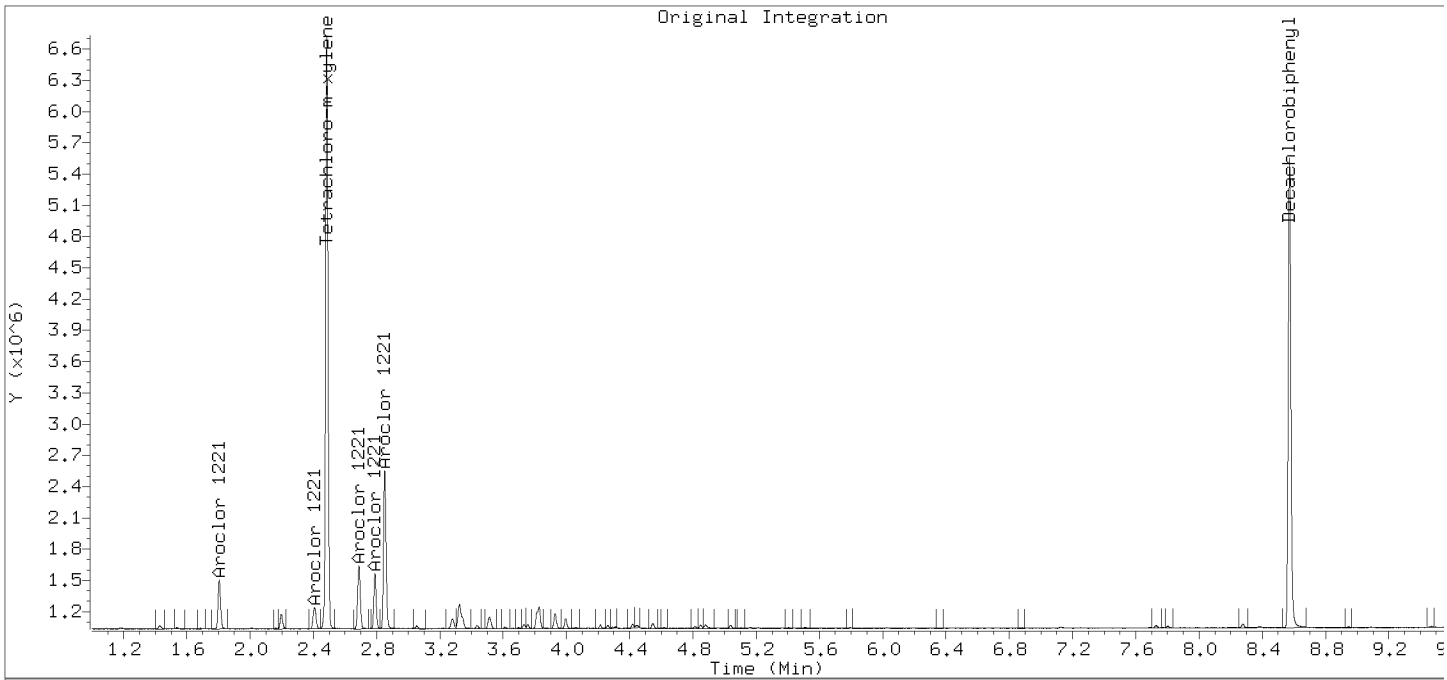
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

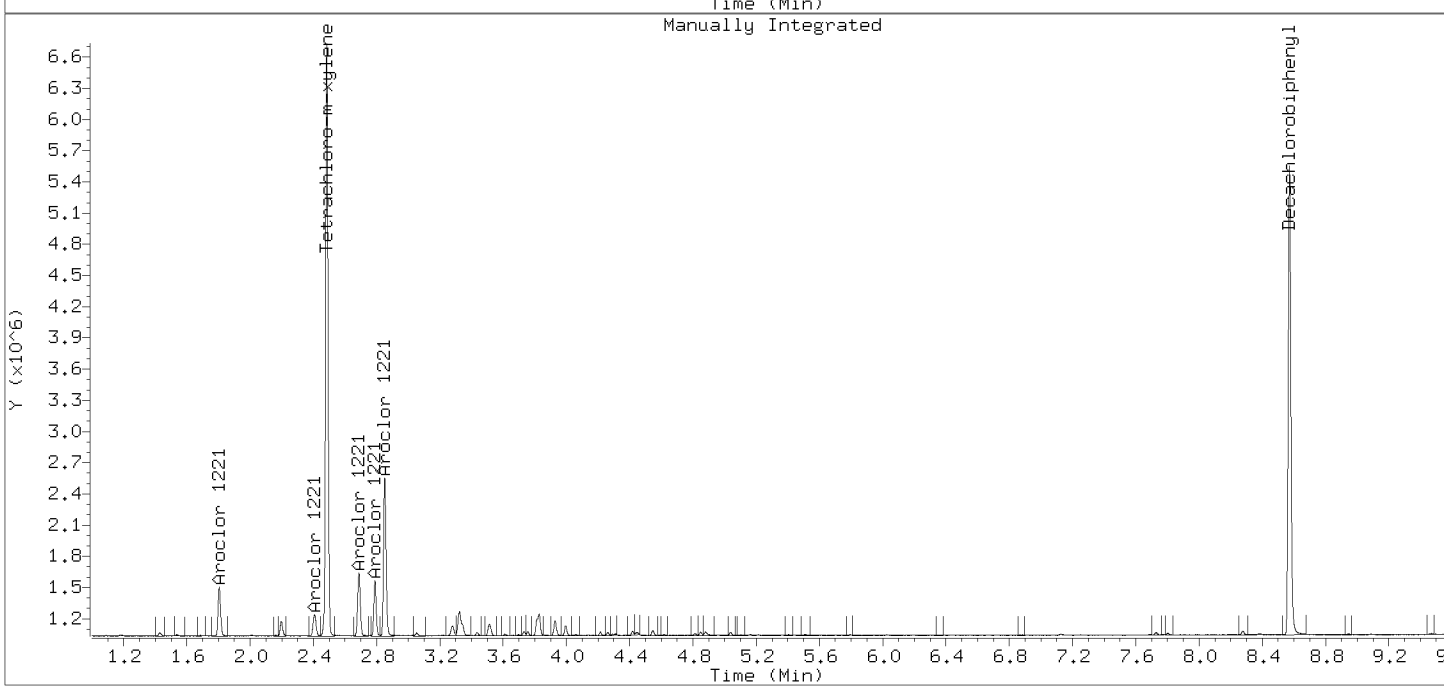
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618070.D
Date : 06-MAR-2018 20:11
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

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



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

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

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

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

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

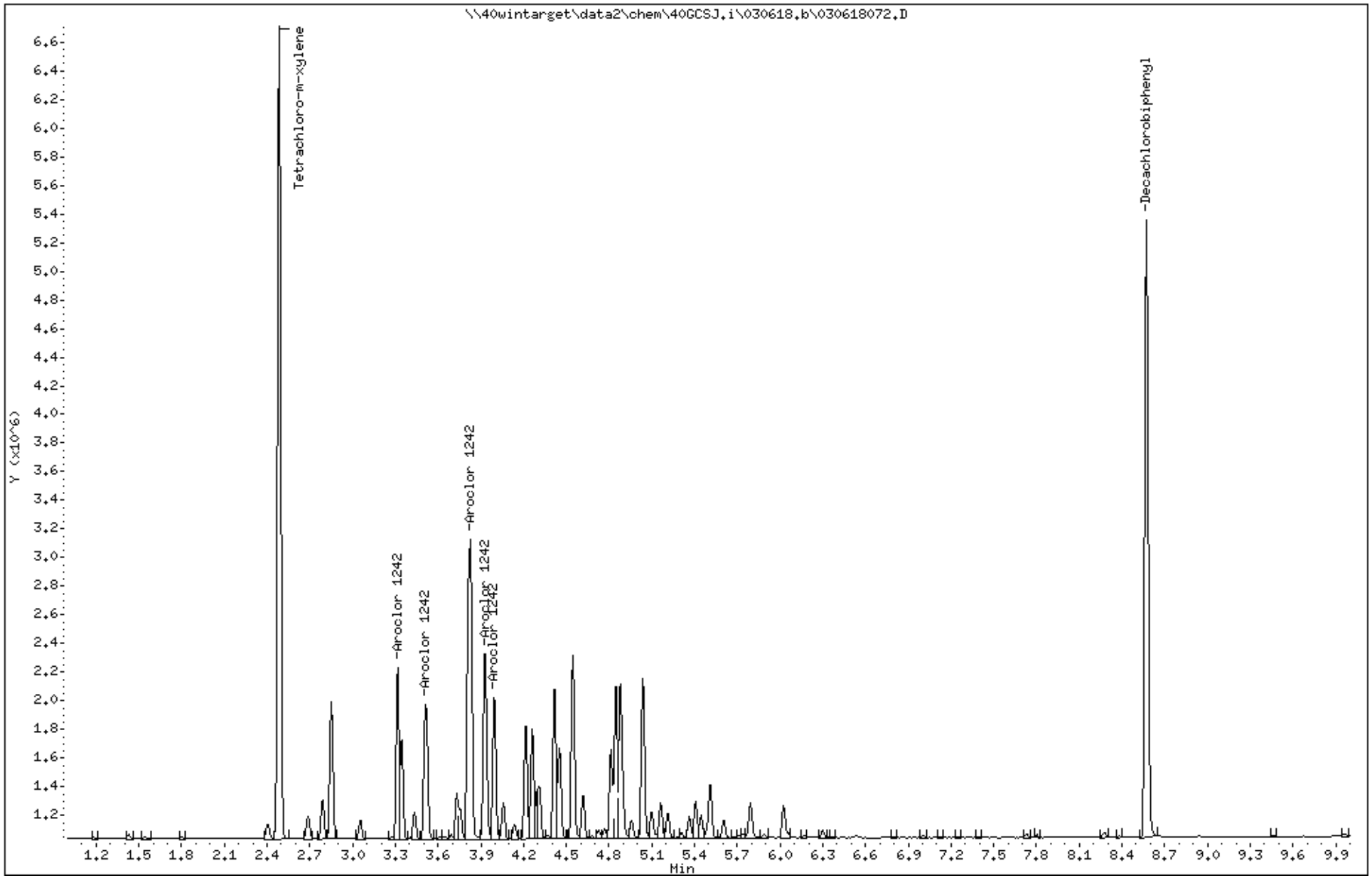
M - Compound response manually integrated.

Review Codes Legend

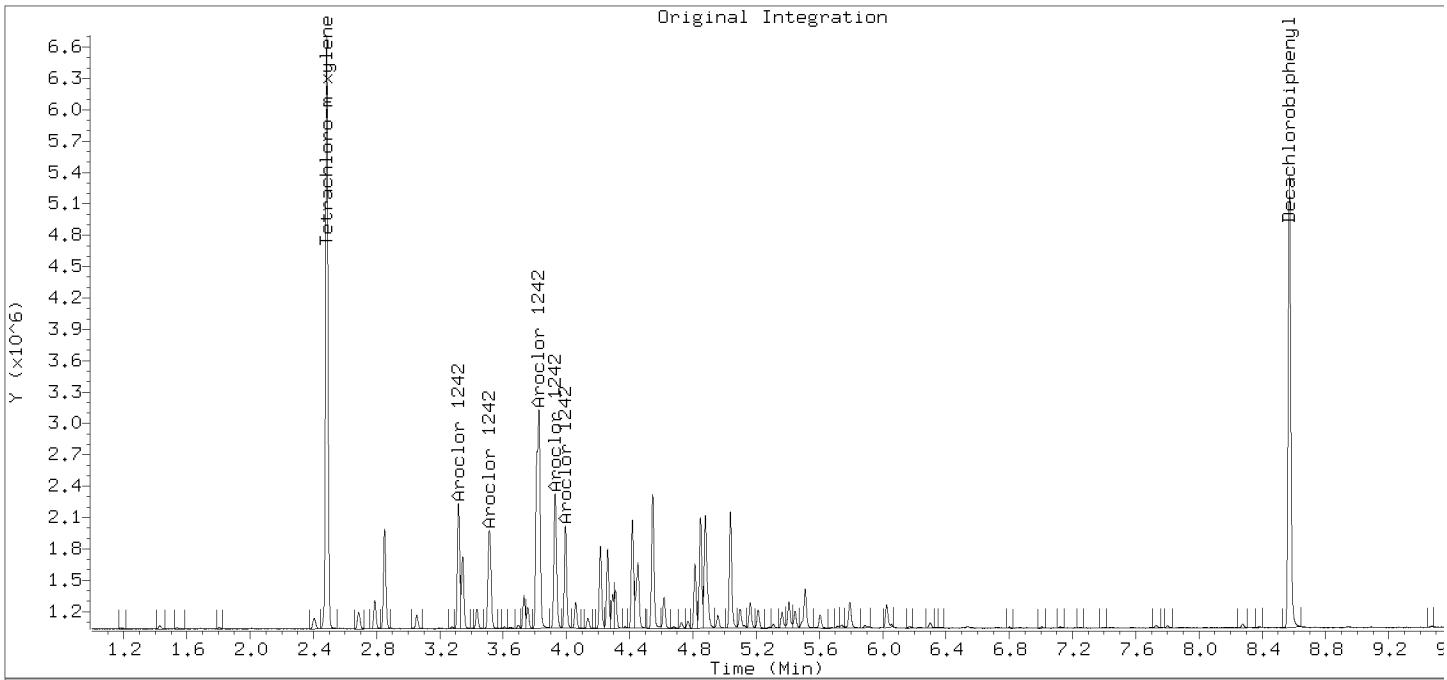
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

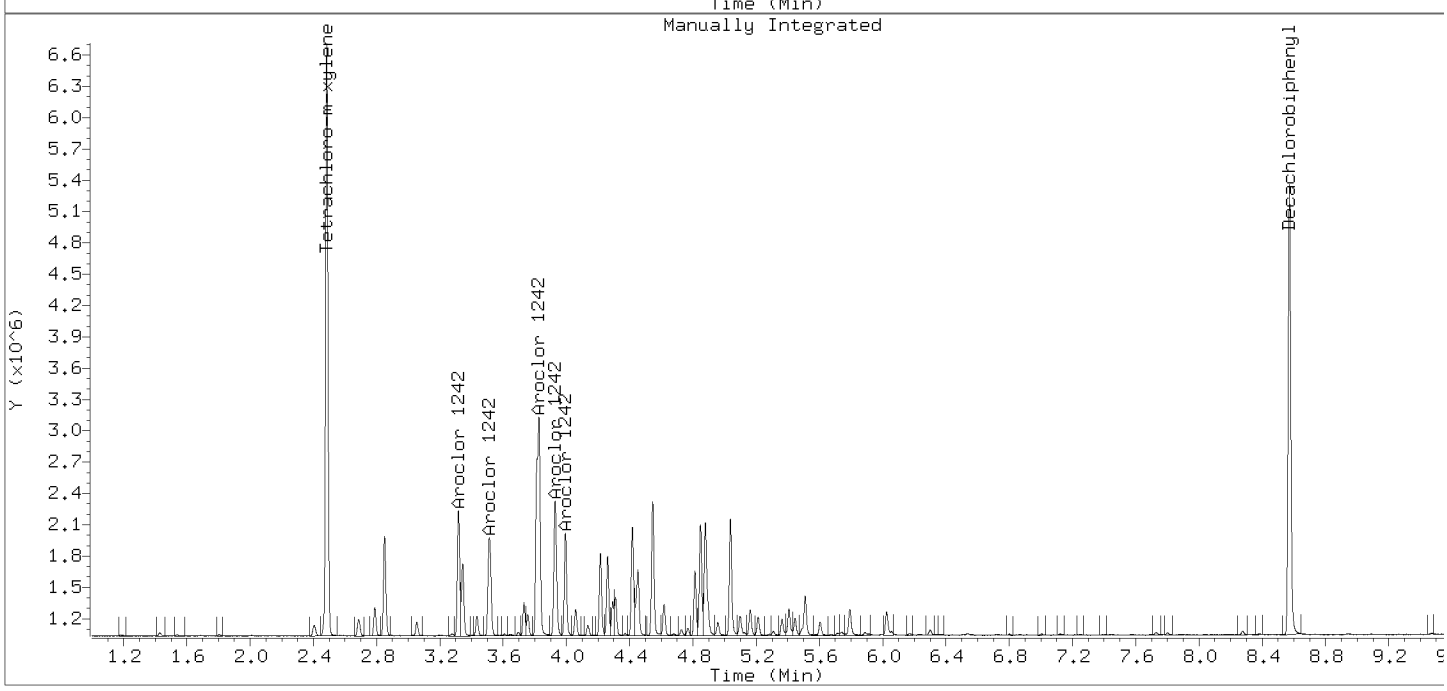
Data File: \\40wintarget\data2\chem\40GCSJ.i\030618.b\030618072.D
Date : 06-MAR-2018 20:27
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

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

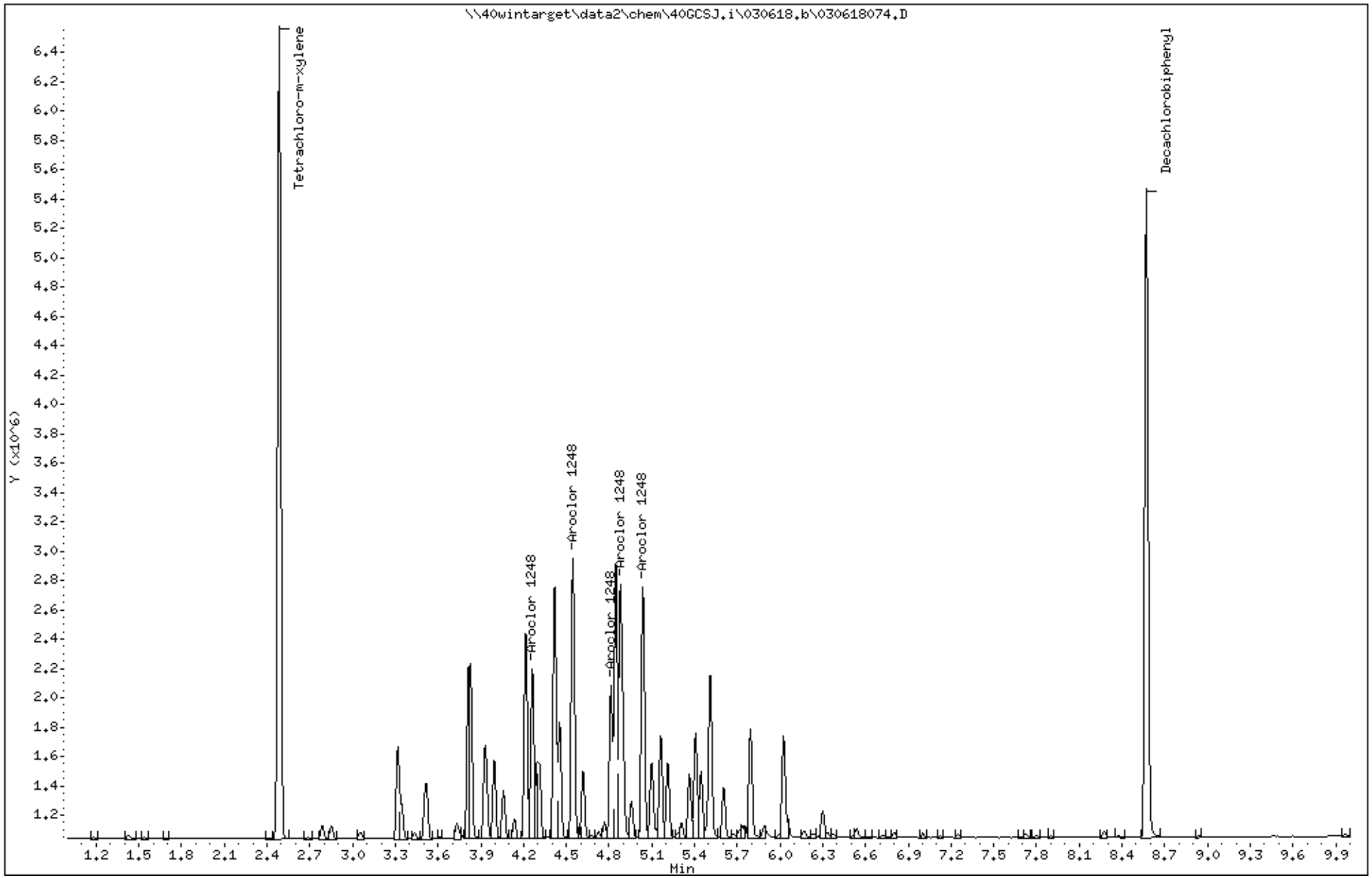
Instrument: 40GCSJ.i

Sample Info: 1248-ICV, 185563:1

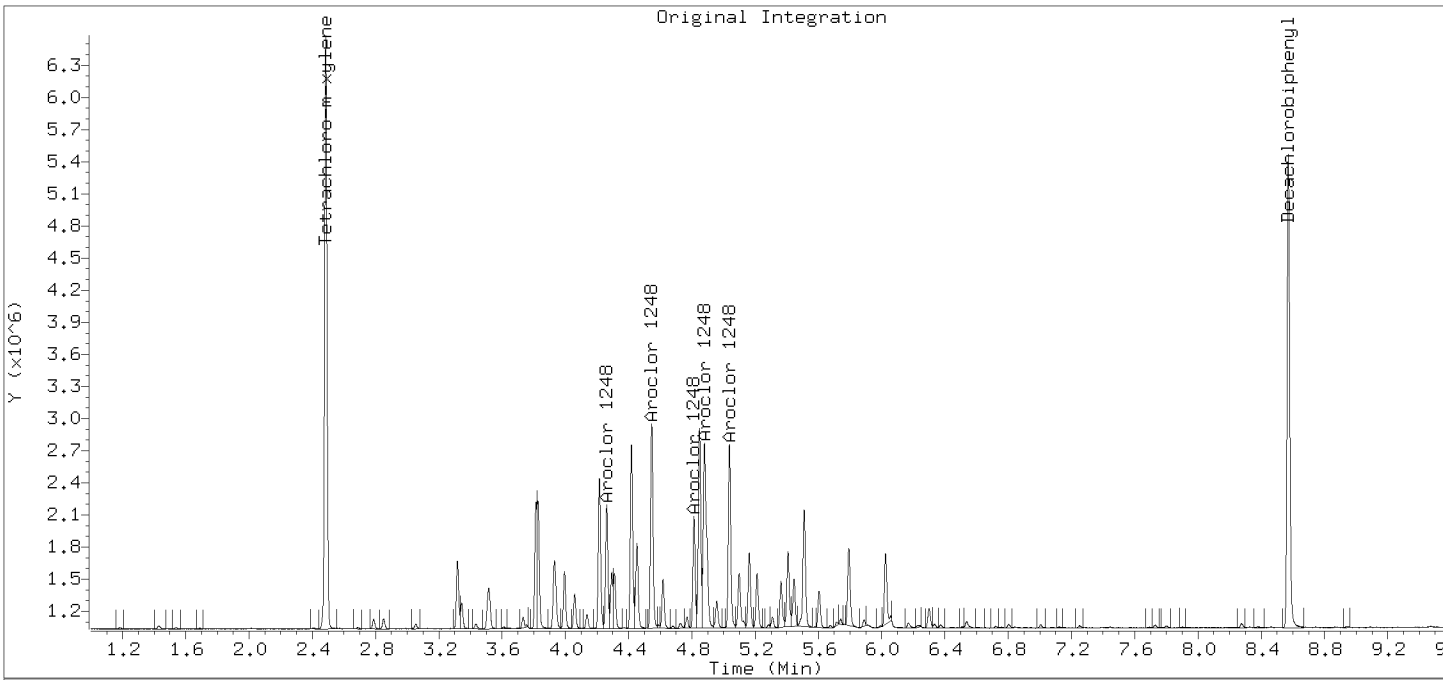
Operator: BLM

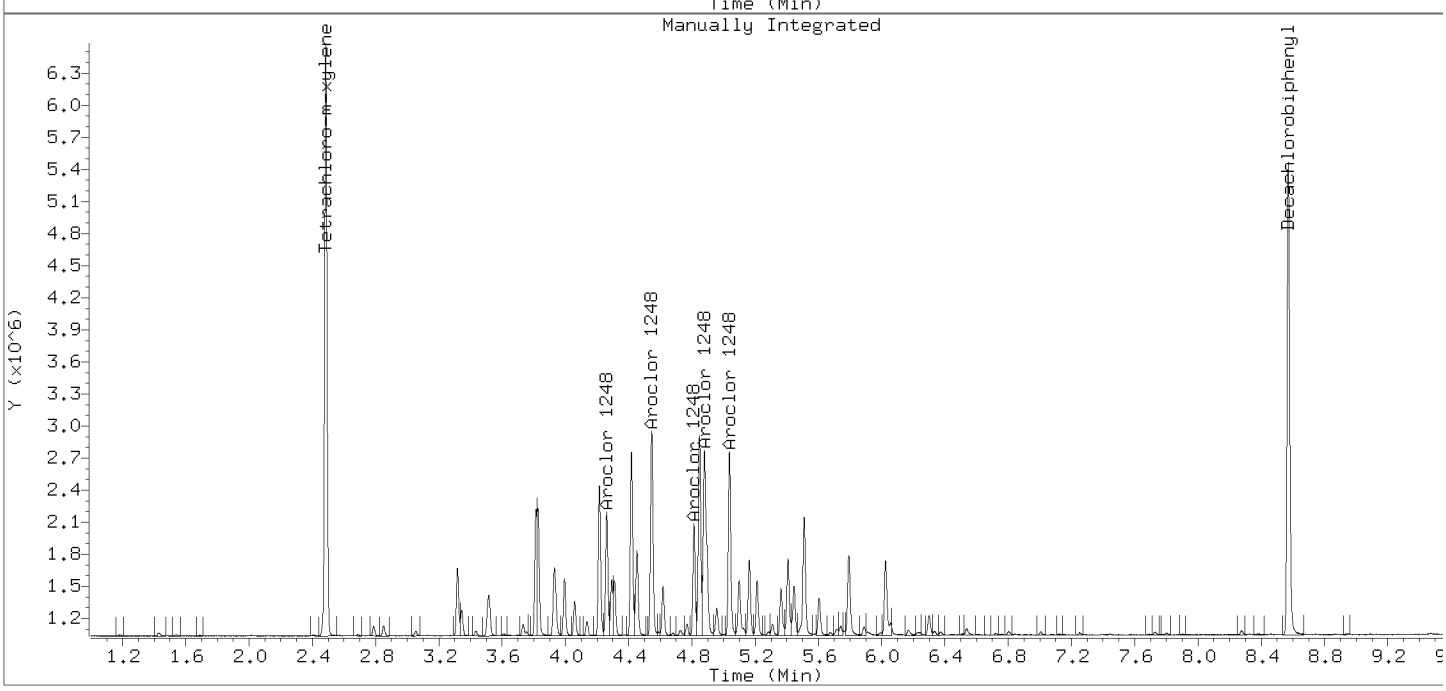
Column phase: ZB-1ms

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

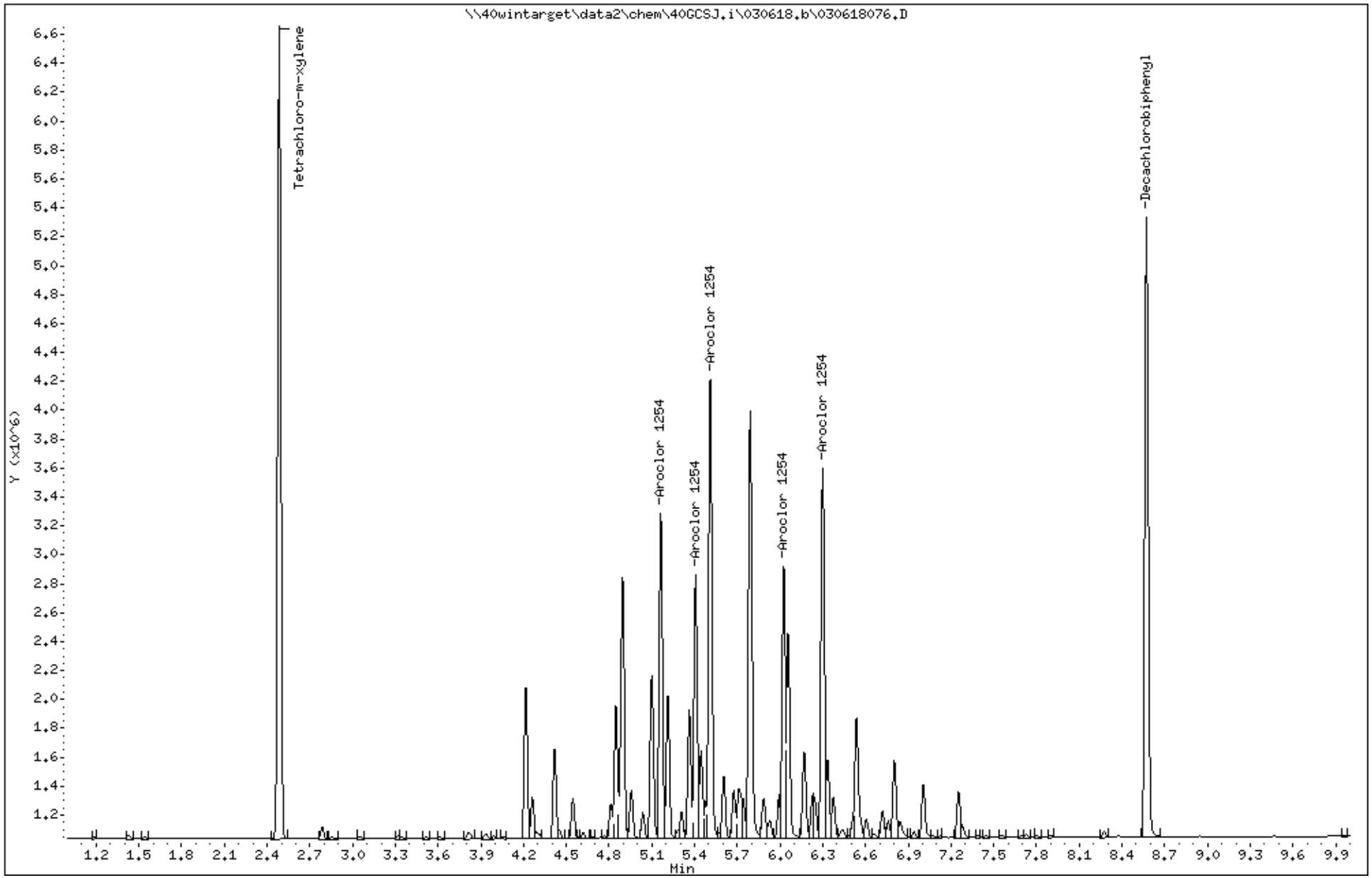
Instrument: 40GCSJ.i

Sample Info: 1254-ICV, 185564:1

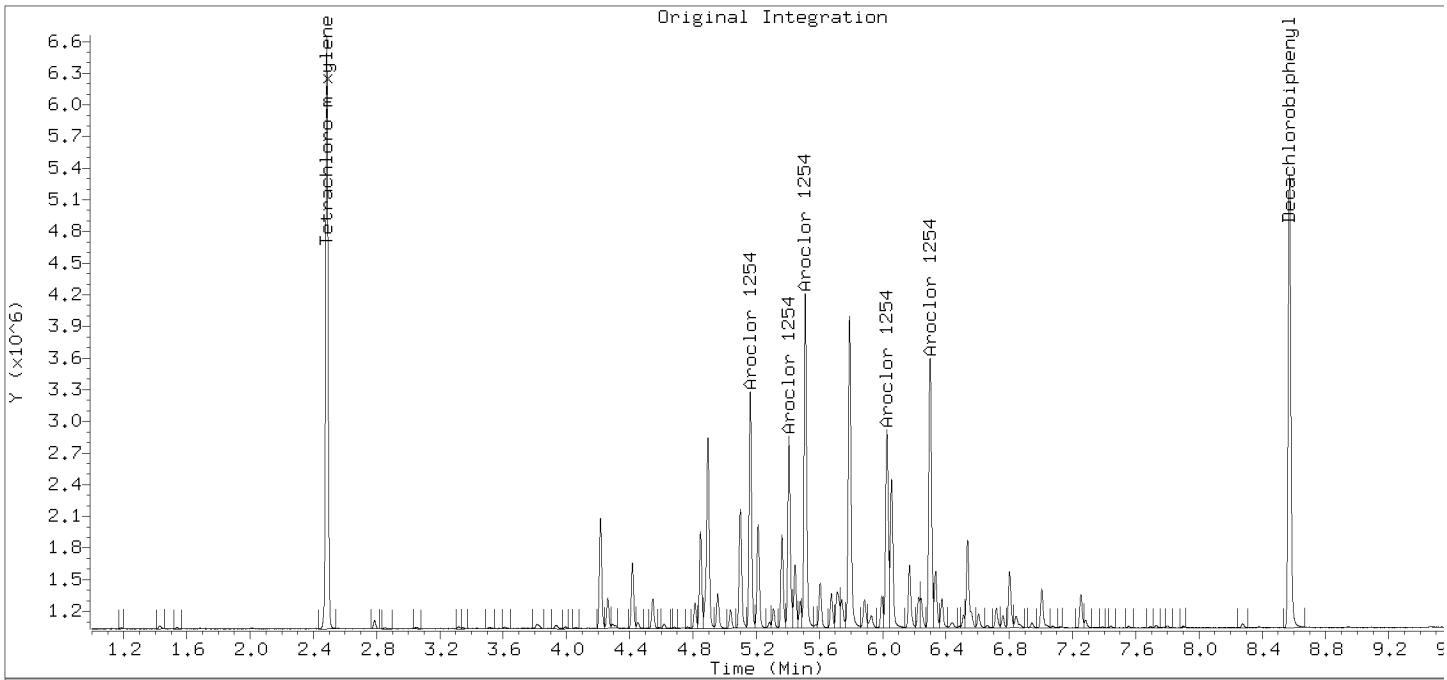
Operator: BLM

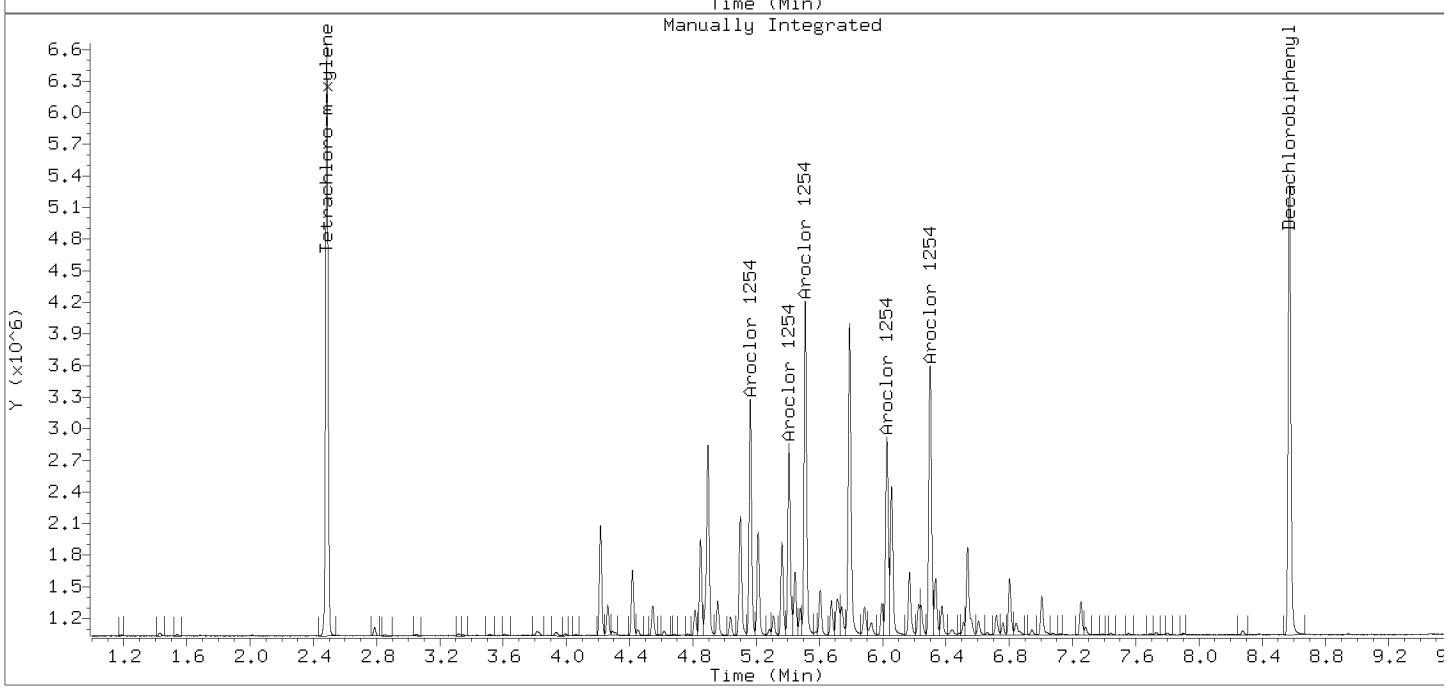
Column phase: ZB-1ms

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	

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

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

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

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

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

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

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

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

Date : 06-MAR-2018 21:16

Client ID: 1660-ICV

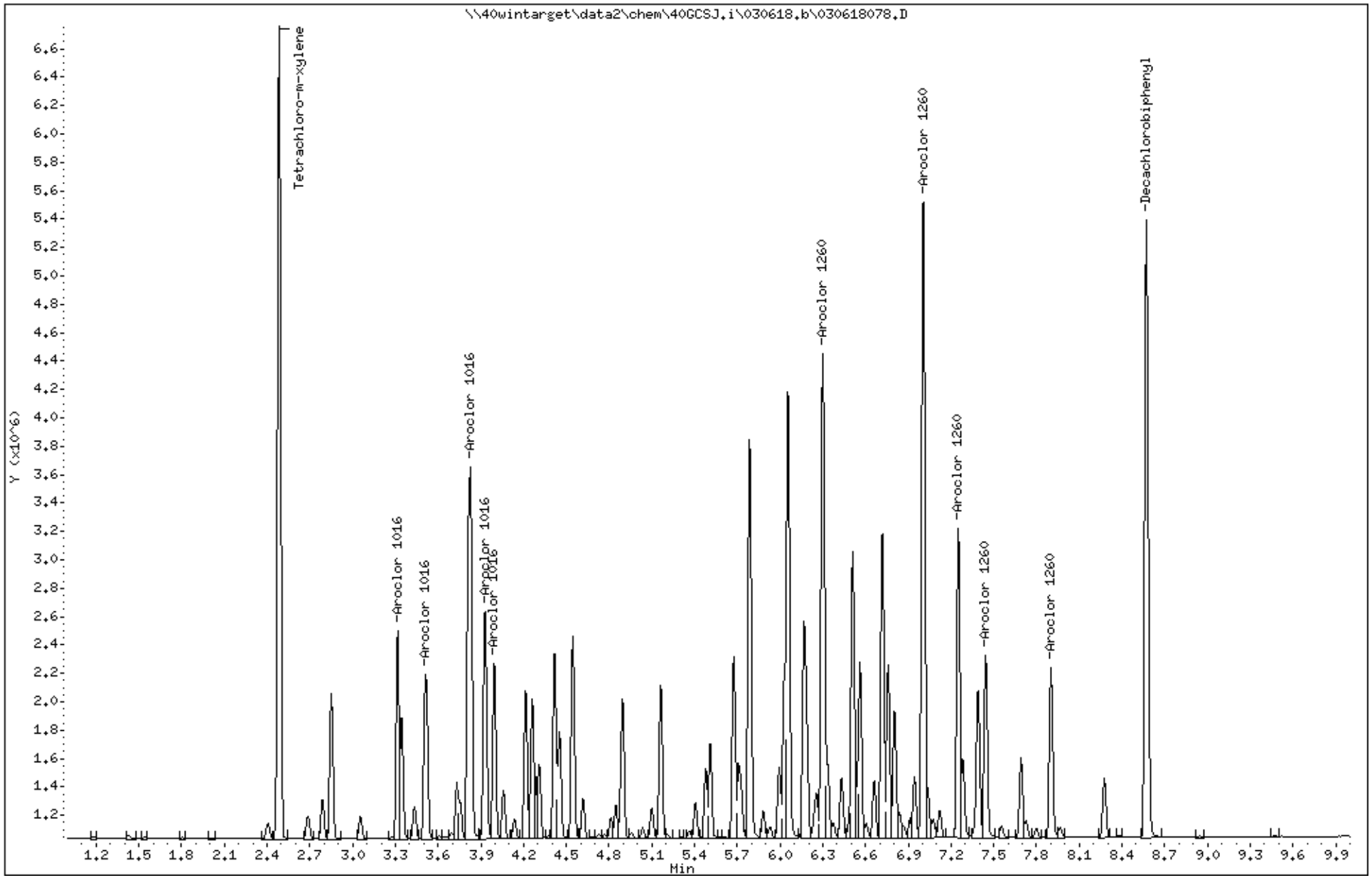
Instrument: 40GCSJ.i

Sample Info: 1660-ICV, 185565:1

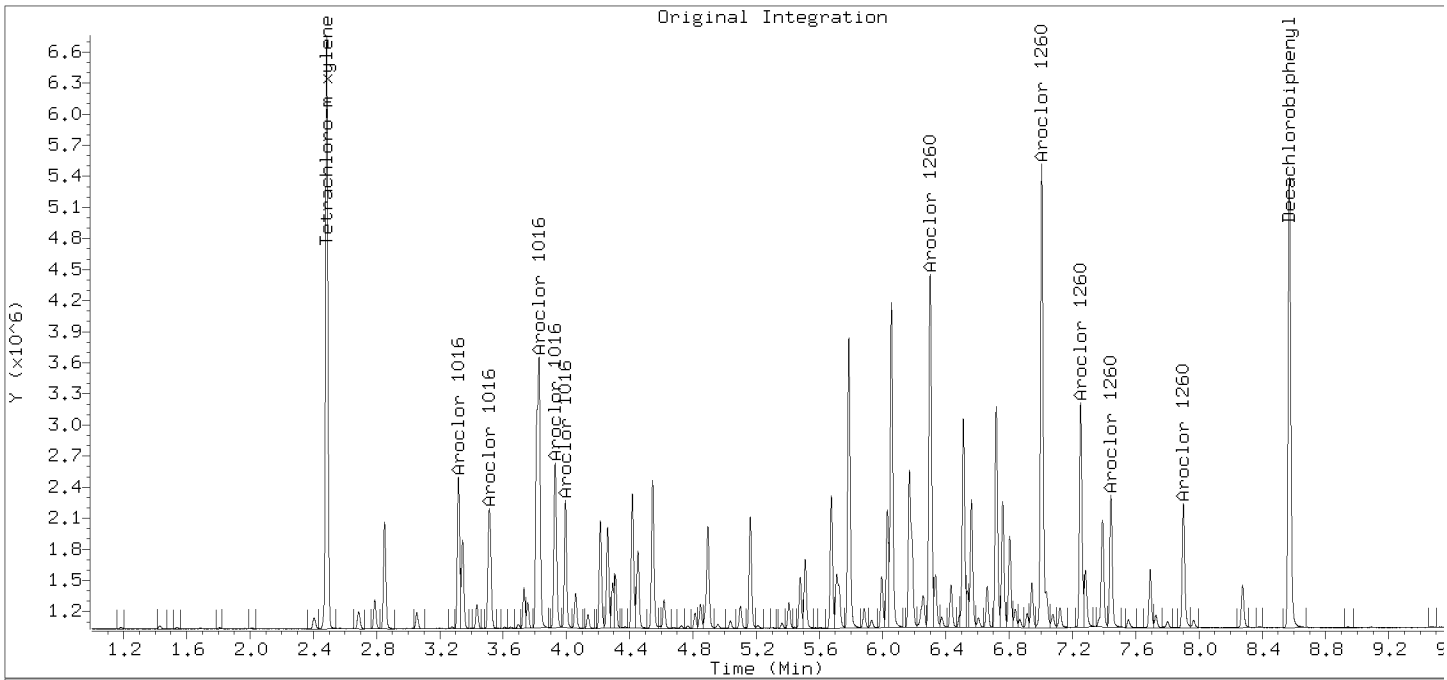
Operator: BLM

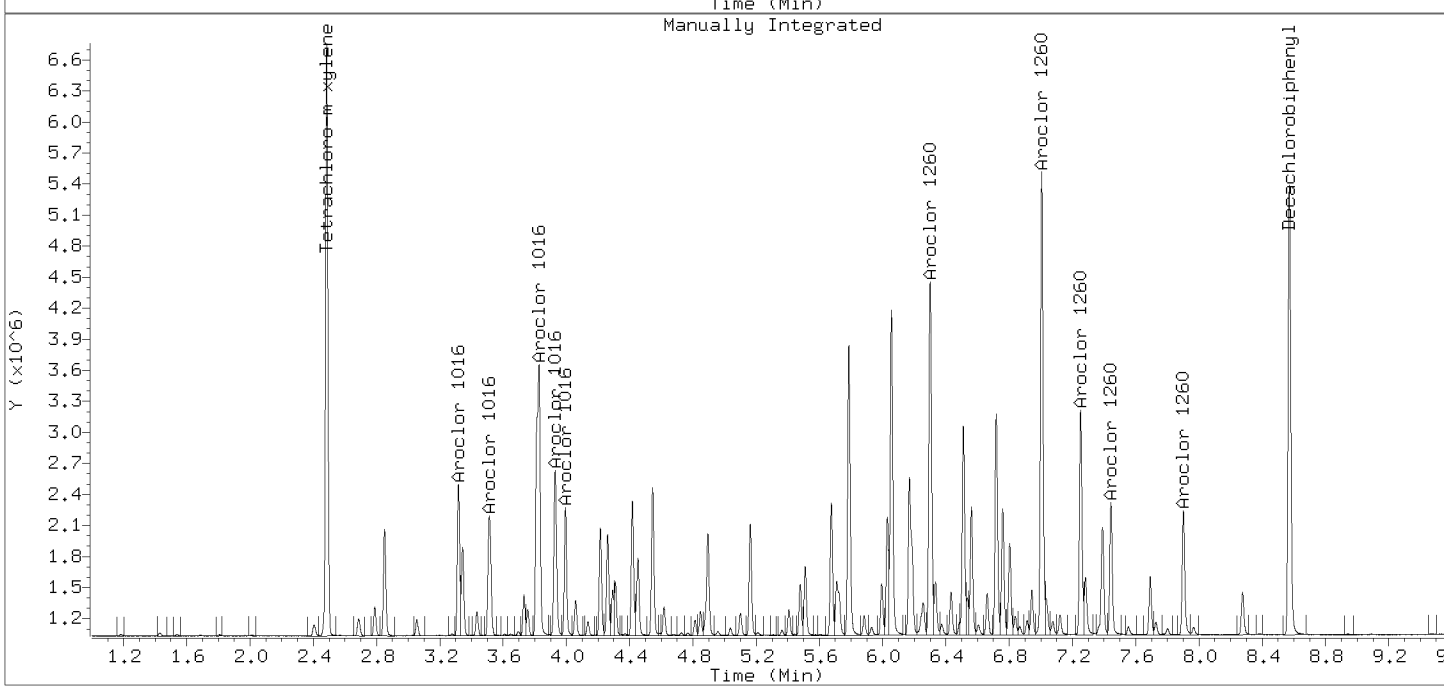
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 02-APR-2018 15:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	16154	15722	0.973	0.05		
1.431	40789	33284	0.816	0.14		
1.539	21156	14382	0.680	0.07		
1.687	29481	23631	0.802	0.10		
1.805	313530	258991	0.826	1.13		
2.011	15864	10447	0.659	0.05		
2.198	86180	74148	0.860	0.31		
2.407	204753	152073	0.743	0.74		
2.485	6093788	5679637	0.932	22.42	$ 2 Tetrachloro-m-xylene	
2.688	448465	357329	0.797	1.62		
2.790	416134	380561	0.915	1.50		
2.851	1325810	1179596	0.890	4.79	4 Aroclor 1232	BA
3.054	92002	78604	0.854	0.33		
3.281	70037	51241	0.732	0.25		
3.318	778705	690578	0.887	2.81		
3.344	416625	384715	0.923	1.50		
3.434	121213	108900	0.898	0.43		
3.514	708338	501805	0.708	2.56	4 Aroclor 1232	BA
3.610	20966	17023	0.812	0.07		
3.696	22209	22046	0.993	0.08		
3.732	182695	184008	1.007	0.66		
3.756	128421	121765	0.948	0.46		
3.826	1952917	1160572	0.594	7.06	4 Aroclor 1232	BA
3.929	840949	706211	0.840	3.04	4 Aroclor 1232	BA
3.995	549024	518977	0.945	1.98	4 Aroclor 1232	BA
4.058	152417	139074	0.912	0.55		
4.136	62388	53070	0.851	0.22		
4.215	416966	389785	0.935	1.50		
4.261	400489	384404	0.960	1.44		
4.293	167377	170501	1.019	0.60		
4.311	207602	191849	0.924	0.75		
4.417	559143	522860	0.935	2.02		
4.451	445880	322841	0.724	1.61		
4.546	719415	656715	0.913	2.60		
4.617	172475	154881	0.898	0.62		
4.678	15028	10600	0.705	0.05		
4.728	37505	31580	0.842	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	39002	37600	0.964	0.14	
4.813	314740	298205	0.947	1.13	
4.848	550098	524328	0.953	1.99	
4.878	709754	527067	0.743	2.56	
4.960	79189	58785	0.742	0.28	
5.038	584443	528462	0.904	2.11	
5.098	120209	90036	0.749	0.43	
5.162	136101	119348	0.877	0.49	
5.213	98153	81384	0.829	0.35	
5.310	25396	22169	0.873	0.09	
5.362	83546	72458	0.867	0.30	
5.408	140180	118790	0.847	0.50	
5.446	88956	75053	0.844	0.32	
5.490	23944	30508	1.274	0.08	
5.511	204188	170637	0.836	0.73	
5.604	74900	60034	0.802	0.27	
5.675	12398	12921	1.042	0.04	
5.711	21399	13524	0.632	0.07	
5.742	17806	16371	0.919	0.06	
5.791	156241	118058	0.756	0.56	
5.889	16023	14870	0.928	0.05	
6.025	117831	100532	0.853	0.42	
6.057	35627	28507	0.800	0.12	
6.302	39938	33901	0.849	0.14	
6.508	11284	12044	1.067	0.04	
6.719	15956	14710	0.922	0.05	
6.760	12552	10006	0.797	0.04	
7.004	24797	21335	0.860	0.08	
7.124	28025	16782	0.599	0.10	
7.252	11398	10994	0.965	0.04	
7.394	10791	8003	0.742	0.03	
7.688	11458	10119	0.883	0.04	
7.726	29226	26651	0.912	0.10	
7.800	24113	22454	0.931	0.08	
8.276	65158	49314	0.757	0.23	
8.376	16293	12330	0.757	0.05	
8.571	5335689	4569067	0.856	19.30	$ 12 Decachlorobiphenyl
8.937	11731	9456	0.806	0.04	
9.412	9731	10131	1.041	0.03	
9.447	23570	13568	0.576	0.08	
9.464	36859	20070	0.545	0.13	
9.837	19446	13728	0.706	0.07	
	27641030	23758716		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218004.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 02-APR-2018 15:12
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	6093787	0.05000	0.049			
4 Aroclor 1232						CAS #: 1114-16-5		
2.851	2.851	0.000	1325810	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	708337	0.50000	0.53	0.00- 20.00	53.43	BA
3.826	3.827	-0.001	1952916	0.50000	0.52	0.00- 20.00	147.30	BA
3.929	3.929	0.000	840948	0.50000	0.52	0.00- 20.00	63.43	BA
3.994	3.995	-0.001	549024	0.50000	0.50	0.00- 20.00	41.41	BA
Average of Peak Amounts =					0.52000			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.571	8.571	0.000	5335689	0.05000	0.049			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218004.D

Date : 02-APR-2018 15:12

Client ID: 1232-CCV

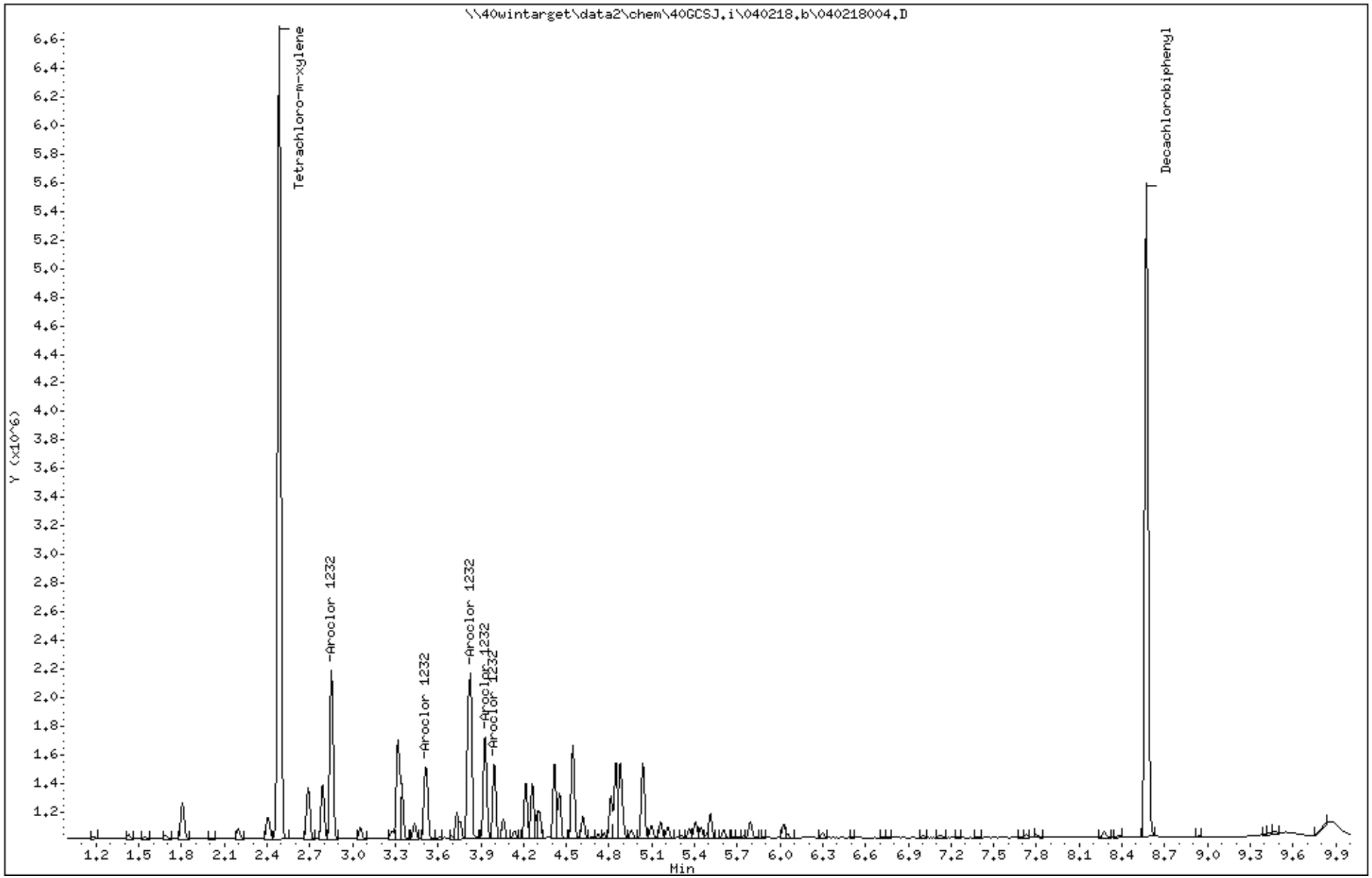
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

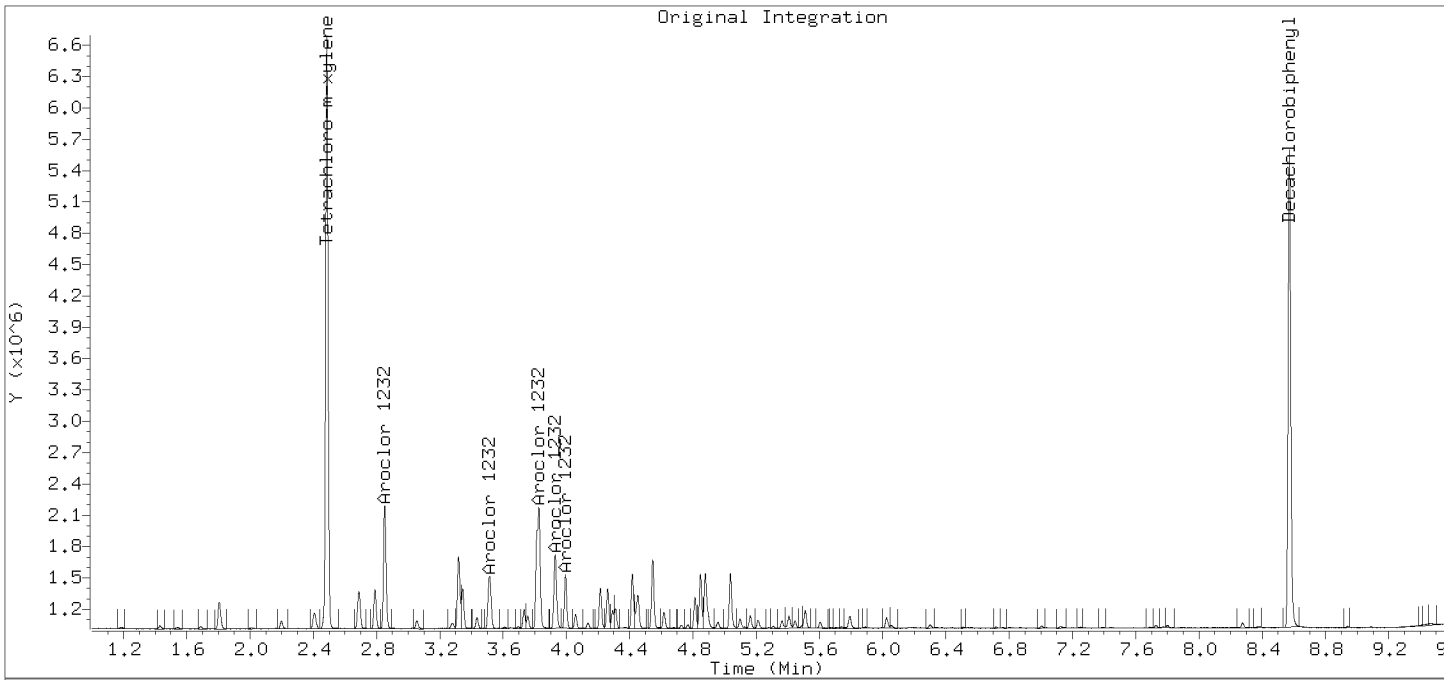
Operator: BLM

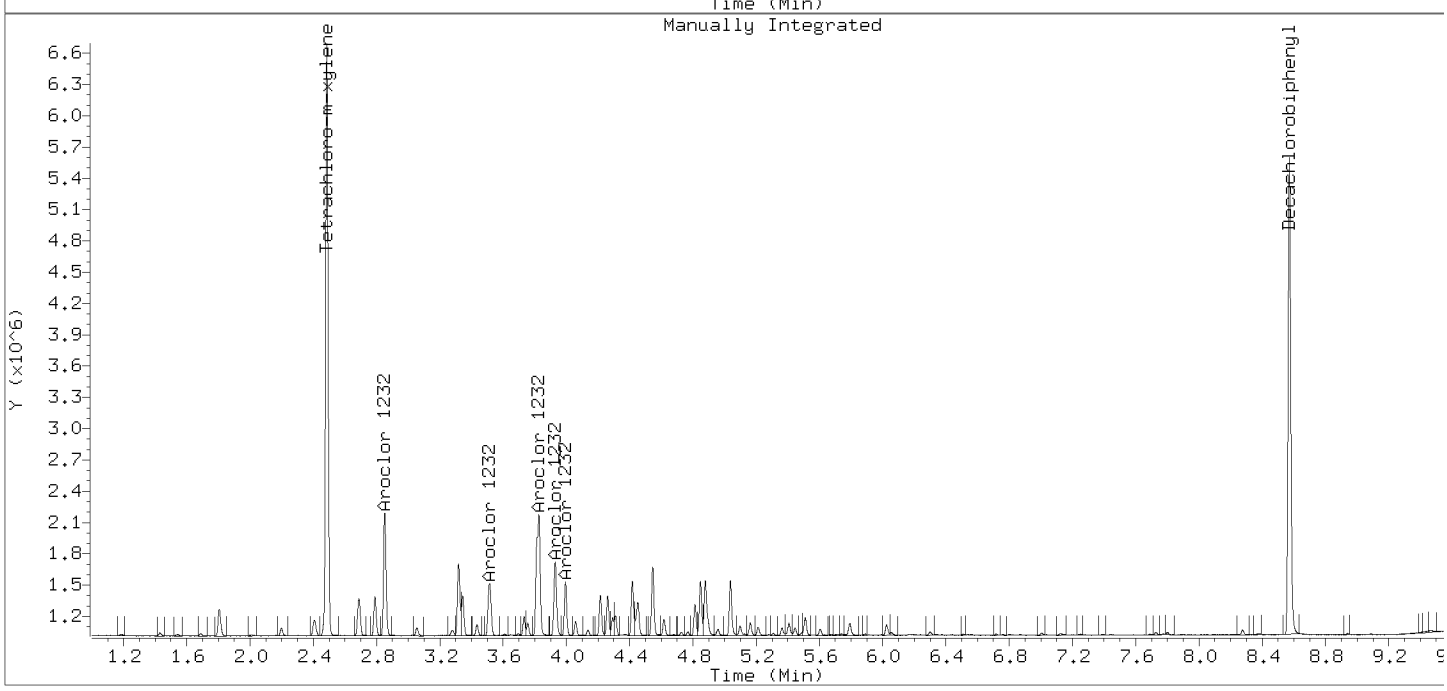
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218004.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 02-APR-2018 15:12 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1314938	1325810	BA
Aroclor 1232	1314938	1325810	BA
Aroclor 1232	1314938	1325810	BA
Aroclor 1232	1314938	1325810	BA
Aroclor 1232	1314938	1325810	BA
Tetrachloro-m-xylene	6093787	6093787	
Decachlorobiphenyl	5335689	5335689	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 02-APR-2018 18:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	17821	15886	0.891	0.04		
1.432	45222	31242	0.691	0.11		
1.538	21572	13138	0.609	0.05		
1.684	19649	17728	0.902	0.04		
1.804	18570	13729	0.739	0.04		
2.008	17473	12300	0.704	0.04		
2.404	128596	93183	0.725	0.31		
2.485	6301500	5675047	0.901	15.74	$ 2 Tetrachloro-m-xylene	
2.686	181290	144628	0.798	0.44		
2.789	282866	255828	0.904	0.68		
2.851	998279	890440	0.892	2.42		
3.055	149201	132896	0.891	0.36		
3.279	23523	17758	0.755	0.05		
3.317	1346810	1245391	0.925	3.27	3 Aroclor 1242	BA
3.344	775959	708984	0.914	1.88		
3.433	214832	191809	0.893	0.52		
3.513	1332451	967164	0.726	3.24	3 Aroclor 1242	BA
3.610	20288	19701	0.971	0.04		
3.649	23030	15142	0.657	0.05		
3.696	37200	36579	0.983	0.09		
3.732	338729	330491	0.976	0.82		
3.756	227994	207114	0.908	0.55		
3.826	3811952	2226457	0.584	9.27	3 Aroclor 1242	BA
3.929	1635133	1328965	0.813	3.97	3 Aroclor 1242	BA
3.994	1082677	1011360	0.934	2.63	3 Aroclor 1242	BA
4.058	333649	291707	0.874	0.81		
4.136	127140	111419	0.876	0.30		
4.215	904321	837913	0.927	2.20		
4.261	870883	815866	0.937	2.11		
4.292	361286	365946	1.013	0.87		
4.310	456122	418421	0.917	1.11		
4.370	27706	22265	0.804	0.06		
4.416	1202805	1108026	0.921	2.92		
4.452	930625	682578	0.733	2.26		
4.545	1548148	1424049	0.920	3.76		
4.617	367660	320062	0.871	0.89		
4.681	29217	18746	0.642	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.727	76721	65147	0.849	0.18	
4.768	84491	82056	0.971	0.20	
4.813	720013	694730	0.965	1.75	
4.848	1238309	1160034	0.937	3.01	
4.879	1602520	1167458	0.729	3.90	
4.957	185477	140673	0.758	0.45	
5.037	1318958	1208381	0.916	3.21	
5.099	287262	219903	0.766	0.69	
5.161	332752	291805	0.877	0.80	
5.212	256334	228726	0.892	0.62	
5.285	23628	19200	0.813	0.05	
5.308	58032	47311	0.815	0.14	
5.361	216457	180162	0.832	0.52	
5.406	355180	298885	0.842	0.86	
5.445	232749	197910	0.850	0.56	
5.509	585766	445073	0.760	1.42	
5.604	174324	151343	0.868	0.42	
5.674	15874	12576	0.792	0.03	
5.717	37345	27942	0.748	0.09	
5.740	63412	42518	0.671	0.15	
5.792	404999	322540	0.796	0.98	
5.889	57301	38244	0.667	0.13	
5.992	11168	13936	1.248	0.02	
6.024	330253	282671	0.856	0.80	
6.055	67785	55247	0.815	0.16	
6.170	24499	20261	0.827	0.05	
6.226	28055	16848	0.601	0.06	
6.297	108624	91984	0.847	0.26	
6.334	22129	20539	0.928	0.05	
6.370	13430	14238	1.060	0.03	
6.536	42599	34034	0.799	0.10	
6.603	10119	6941	0.686	0.02	
6.801	22917	21257	0.928	0.05	
7.005	12330	10630	0.862	0.03	
7.122	9292	7693	0.828	0.02	
7.250	9404	8703	0.926	0.02	
7.727	33023	25894	0.784	0.08	
7.800	28192	22383	0.794	0.06	
8.275	53024	46006	0.868	0.12	
8.377	20659	13455	0.651	0.05	
8.570	5673409	4742501	0.836	13.80	$ 12 Decachlorobiphenyl
8.942	14966	9868	0.659	0.03	
9.464	11345	8871	0.782	0.02	
	41087307	34536535		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218016.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 02-APR-2018 18:23
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6301500	0.05000	0.051			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1346810	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.513	3.513	0.000	1332451	0.50000	0.53	0.00- 20.00	98.93	BA
3.825	3.827	-0.002	3811952	0.50000	0.54	0.00- 20.00	283.04	BA
3.928	3.929	-0.001	1635133	0.50000	0.54	0.00- 20.00	121.41	BA
3.993	3.995	-0.002	1082677	0.50000	0.53	0.00- 20.00	80.39	BA
Average of Peak Amounts =					0.53400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5673408	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\040218.b\040218016.D

Date : 02-APR-2018 18:23

Client ID: 1242-CCV

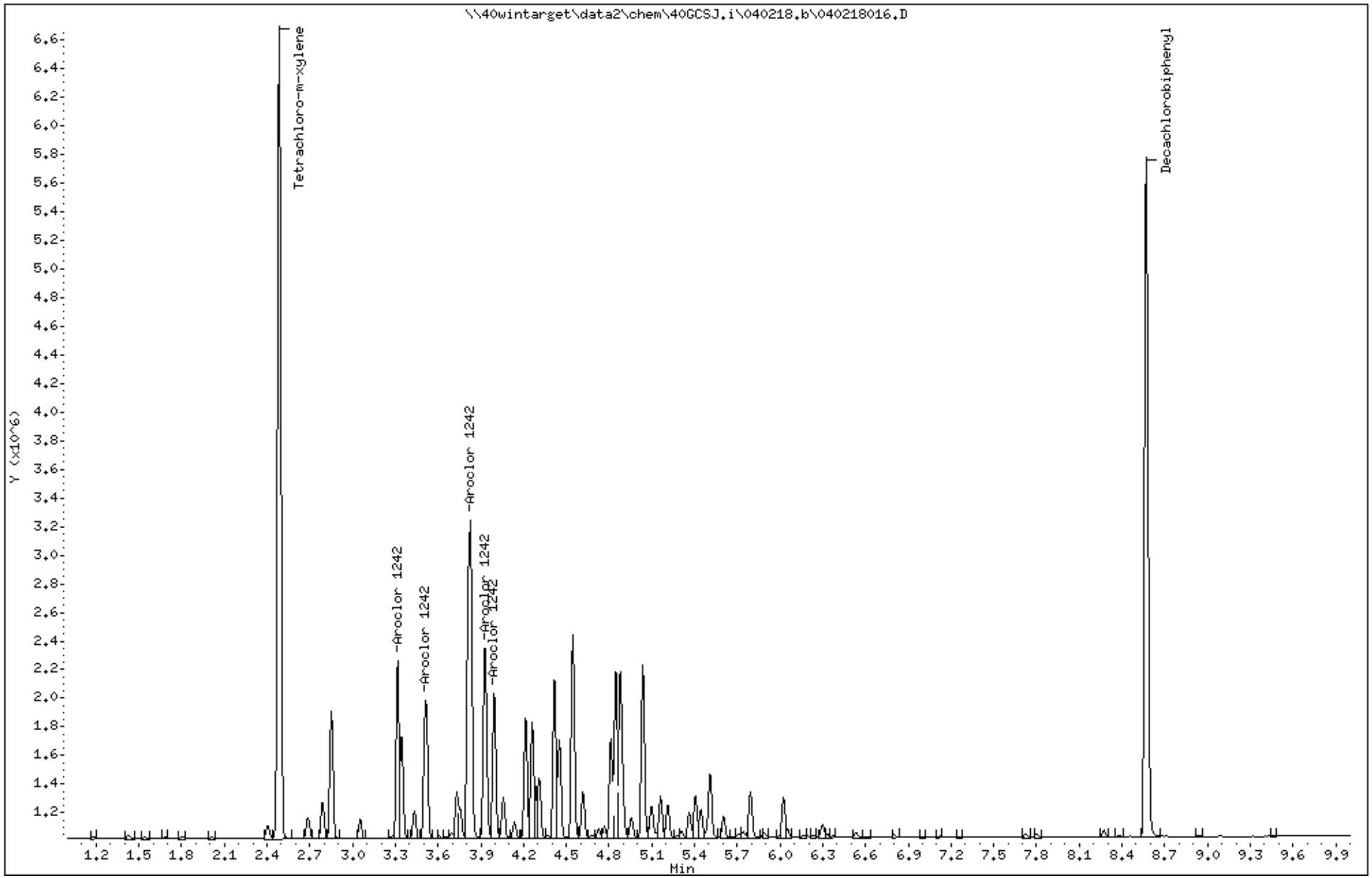
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

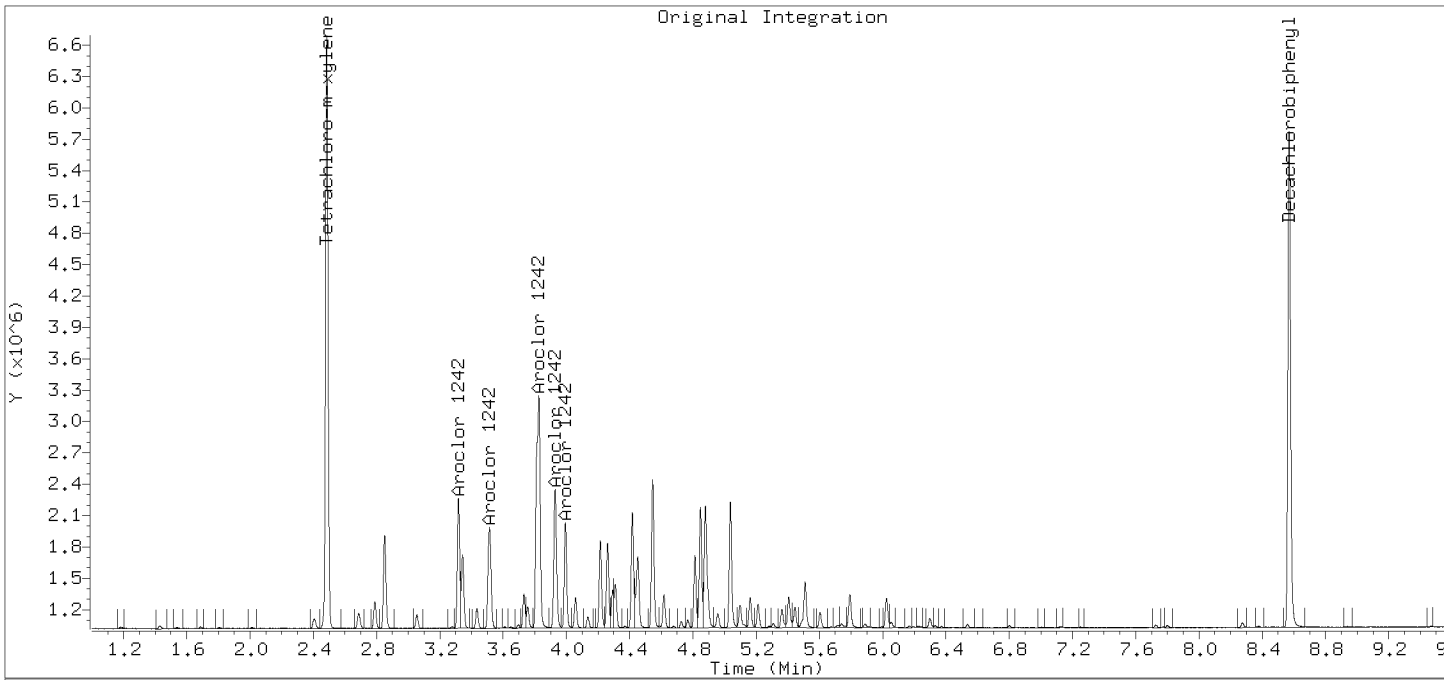
Operator: BLM

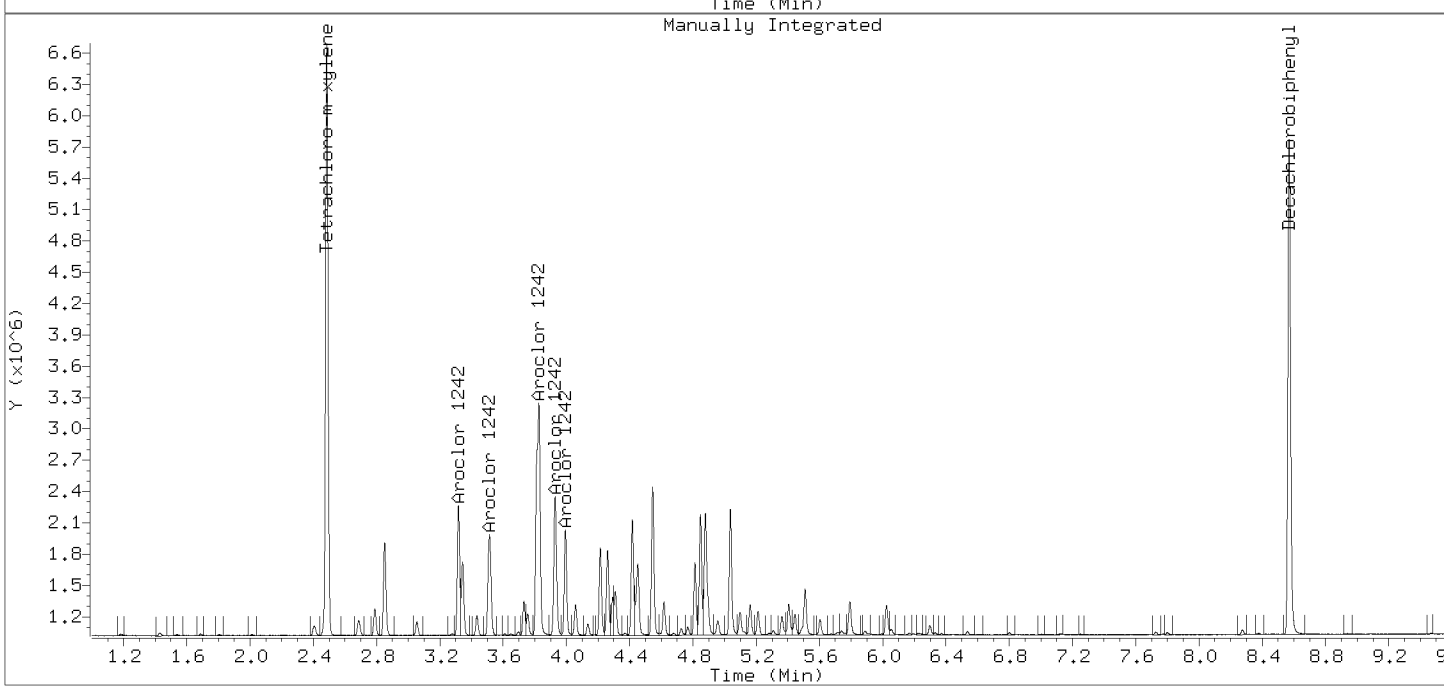
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218016.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 02-APR-2018 18:23 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1242-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1337070	1346810	BA
Aroclor 1242	1337070	1346810	BA
Aroclor 1242	1337070	1346810	BA
Aroclor 1242	1337070	1346810	BA
Aroclor 1242	1337070	1346810	BA
Tetrachloro-m-xylene	6301500	6301500	
Decachlorobiphenyl	5673408	5673408	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 02-APR-2018 21:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.183	22052	17128	0.777	0.04		
1.429	39603	29947	0.756	0.08		
1.537	20828	14399	0.691	0.04		
1.688	29510	25175	0.853	0.06		
2.012	13828	11937	0.863	0.03		
2.405	27850	19790	0.711	0.06		
2.485	5959173	5437475	0.912	13.82	$ 2 Tetrachloro-m-xylene	
2.685	32091	25649	0.799	0.07		
2.788	116135	106783	0.919	0.25		
2.851	195537	170907	0.874	0.43		
3.028	12233	11292	0.923	0.02		
3.054	63477	55440	0.873	0.14		
3.317	707001	684223	0.968	1.58		
3.344	308017	284395	0.923	0.68		
3.435	63608	58335	0.917	0.14		
3.515	594372	428466	0.721	1.32		
3.608	17162	16798	0.979	0.03		
3.697	11002	9406	0.855	0.02		
3.732	134444	129052	0.960	0.30		
3.755	65617	56401	0.860	0.14		
3.814	956858	1216290	1.271	2.13		
3.826	1443794	1280141	0.887	3.22		
3.930	914861	689739	0.754	2.04		
3.994	599034	553426	0.924	1.33		
4.058	353266	314298	0.890	0.78		
4.136	150436	132681	0.882	0.33		
4.215	1503073	1366230	0.909	3.36		
4.261	1198097	1113215	0.929	2.67	6 Aroclor 1248	BA
4.292	495989	504325	1.017	1.10		
4.309	539133	495525	0.919	1.20		
4.417	1817922	1664956	0.916	4.06		
4.452	920397	795514	0.864	2.05		
4.546	2091521	1885035	0.901	4.67	6 Aroclor 1248	BA
4.617	484697	452646	0.934	1.08		
4.679	32386	21683	0.670	0.07		
4.727	64332	50168	0.780	0.14		
4.768	114614	101997	0.890	0.25		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.813	1031162	1002840	0.973	2.30	6 Aroclor 1248
4.848	1994394	1831863	0.919	4.45	
4.879	2609515	1695646	0.650	5.83	6 Aroclor 1248
4.956	308550	254285	0.824	0.68	
5.037	1841200	1674646	0.910	4.11	6 Aroclor 1248
5.098	604752	526563	0.871	1.35	
5.162	782463	706380	0.903	1.74	
5.212	564314	511343	0.906	1.26	
5.284	40024	40519	1.012	0.08	
5.309	125896	102680	0.816	0.28	
5.363	494049	422677	0.856	1.10	
5.407	833030	707170	0.849	1.86	
5.447	508914	428696	0.842	1.13	
5.509	1386736	1111460	0.801	3.10	
5.604	401905	344467	0.857	0.89	
5.674	47715	41488	0.869	0.10	
5.717	80792	62624	0.775	0.18	
5.739	105085	88022	0.838	0.23	
5.762	27795	40140	1.444	0.06	
5.792	941551	744147	0.790	2.10	
5.887	105731	77922	0.737	0.23	
5.995	28114	29047	1.033	0.06	
6.023	774625	654180	0.845	1.73	
6.055	181866	135689	0.746	0.40	
6.168	96189	54260	0.564	0.21	
6.224	54322	30561	0.563	0.12	
6.299	240606	203616	0.846	0.53	
6.331	51367	39747	0.774	0.11	
6.371	43109	30617	0.710	0.09	
6.439	24976	12412	0.497	0.05	
6.509	41626	38647	0.928	0.09	
6.534	97221	64713	0.666	0.21	
6.662	13391	9369	0.700	0.02	
6.717	39487	35474	0.898	0.08	
6.760	21598	17867	0.827	0.04	
6.802	41001	37494	0.914	0.09	
6.840	15937	12007	0.753	0.03	
6.943	10076	8518	0.845	0.02	
7.004	76608	64897	0.847	0.17	
7.125	24748	15456	0.625	0.05	
7.251	32024	24580	0.768	0.07	
7.389	31070	26637	0.857	0.06	
7.441	35001	28078	0.802	0.07	
7.690	16305	15264	0.936	0.03	
7.730	29131	24851	0.853	0.06	
7.798	16373	18270	1.116	0.03	
7.902	28080	23903	0.851	0.06	
8.273	64174	52352	0.816	0.14	
8.378	29030	16365	0.564	0.06	
8.571	5477457	4446899	0.812	12.24	$ 12 Decachlorobiphenyl
8.723	9325	7327	0.786	0.02	
8.941	29913	20056	0.670	0.06	
9.463	46199	25908	0.561	0.10	
9.961	51582	32940	0.639	0.11	
	44722056	38904446		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218028.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 02-APR-2018 21:33
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	5959173	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1198097	0.50000	0.51	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2091520	0.50000	0.50	0.00- 20.00	174.57	BA
4.812	4.812	0.000	1031162	0.50000	0.51	0.00- 20.00	86.07	BA
4.878	4.879	-0.001	2609514	0.50000	0.52	0.00- 20.00	217.80	BA
5.036	5.038	-0.002	1841200	0.50000	0.51	0.00- 20.00	153.68	BA
Average of Peak Amounts =					0.51000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5477457	0.05000	0.050			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218028.D

Date : 02-APR-2018 21:33

Client ID: 1248-CCV

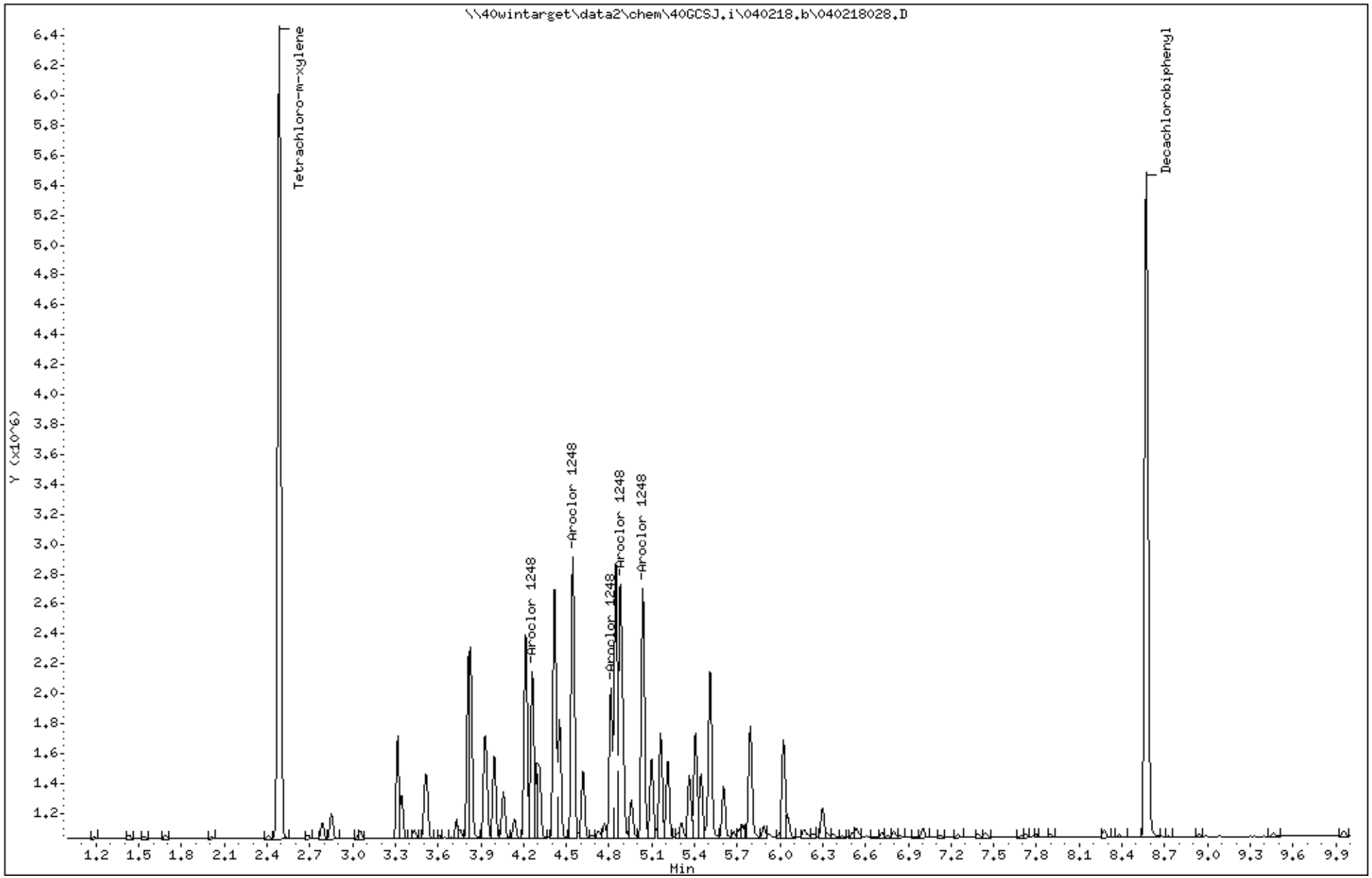
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

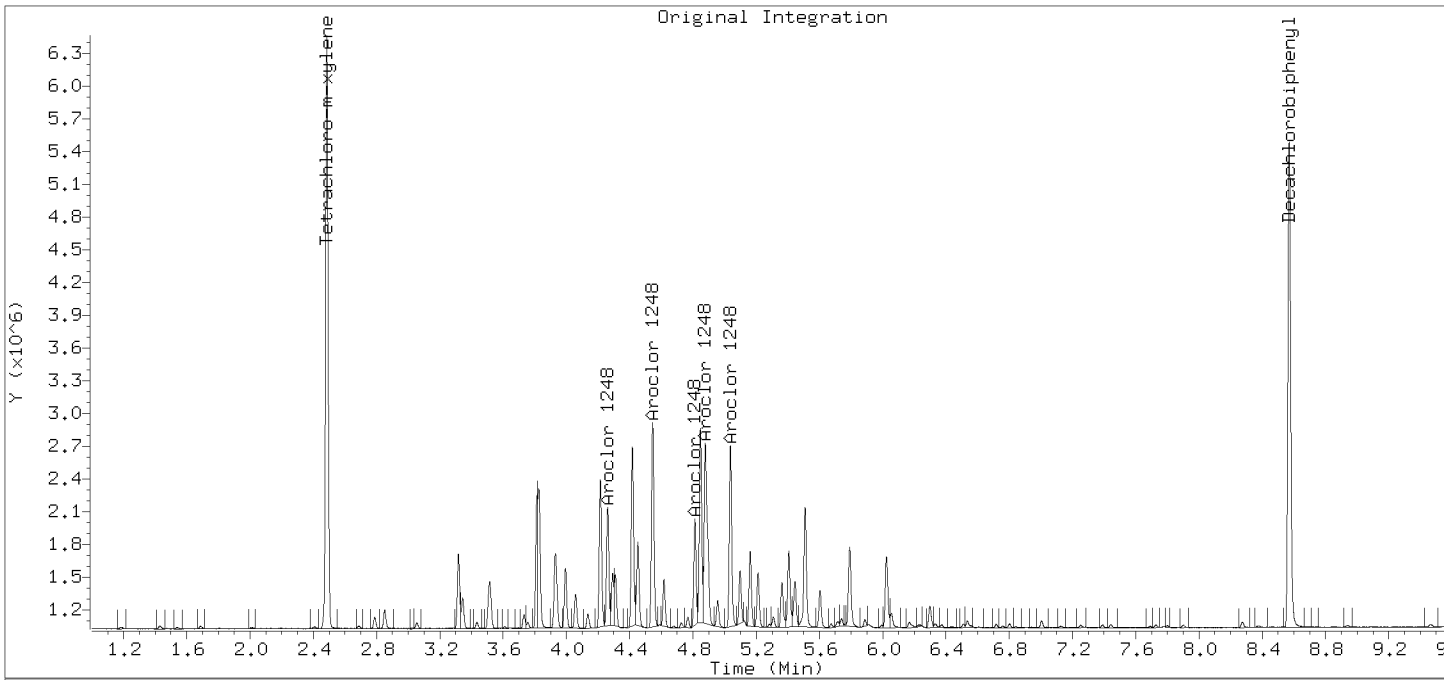
Operator: BLM

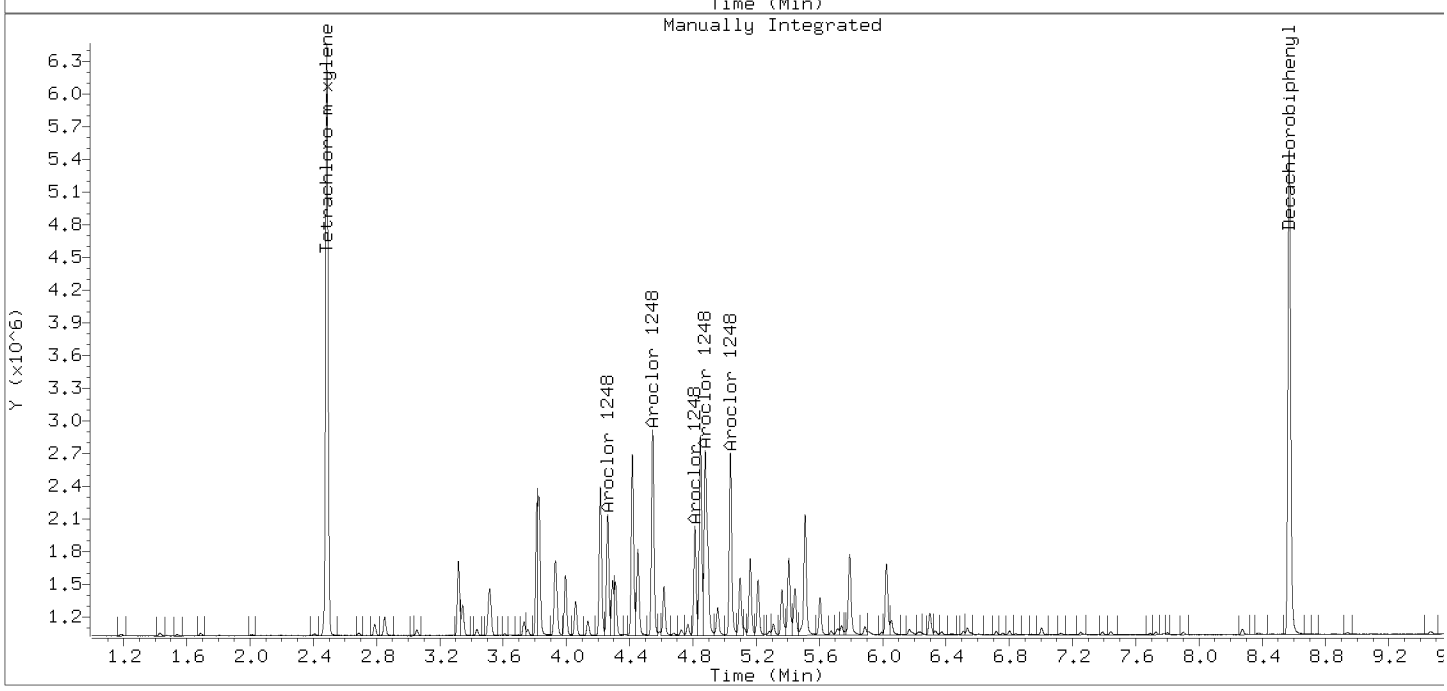
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218028.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 02-APR-2018 21:33 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1136740	1198097	BA
Aroclor 1248	1136740	1198097	BA
Aroclor 1248	1136740	1198097	BA
Aroclor 1248	1136740	1198097	BA
Aroclor 1248	1136740	1198097	BA
Tetrachloro-m-xylene	5959173	5959173	
Decachlorobiphenyl	5477457	5477457	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 10-APR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	37854	26493	0.700	0.13		
1.428	36502	31369	0.859	0.13		
1.541	18337	13278	0.724	0.06		
1.682	14585	11900	0.816	0.05		
1.804	306633	259866	0.847	1.12		
2.007	24279	14296	0.589	0.08		
2.197	83832	74872	0.893	0.30		
2.407	198784	146730	0.738	0.72		
2.484	5940254	5589667	0.941	22.07	$ 2 Tetrachloro-m-xylene	
2.688	446112	361477	0.810	1.63		
2.788	407371	375077	0.921	1.48		
2.850	1333721	1167621	0.875	4.87	4 Aroclor 1232	BA
3.053	87858	76901	0.875	0.32		
3.280	75026	54386	0.725	0.27		
3.317	761993	674789	0.886	2.78		
3.342	422534	382353	0.905	1.54		
3.434	121439	106547	0.877	0.44		
3.514	691523	493485	0.714	2.52	4 Aroclor 1232	BA
3.608	23499	18858	0.803	0.08		
3.646	15741	10842	0.689	0.05		
3.696	23707	22739	0.959	0.08		
3.731	176775	174987	0.990	0.64		
3.756	137994	120152	0.871	0.50		
3.826	1984568	1140998	0.575	7.25	4 Aroclor 1232	BA
3.928	852402	700721	0.822	3.11	4 Aroclor 1232	BA
3.993	556499	513643	0.923	2.03	4 Aroclor 1232	BA
4.058	153800	133829	0.870	0.56		
4.135	61965	53029	0.856	0.22		
4.214	408726	373634	0.914	1.49		
4.261	394493	355104	0.900	1.44		
4.293	156288	170271	1.089	0.57		
4.309	226655	191517	0.845	0.82		
4.369	17679	13729	0.777	0.06		
4.416	554417	516318	0.931	2.02		
4.450	448510	316663	0.706	1.63		
4.545	714586	640980	0.897	2.61		
4.616	171993	155745	0.906	0.62		

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

Total unknown % area = 39

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018028.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 10-APR-2018 19:39
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17498,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	5940253	0.05000	0.048			
4 Aroclor 1232					CAS #: 1114-16-5			
2.850	2.851	-0.001	1333721	0.50000	0.53	0.00- 20.00	100.00(M)	BA
3.514	3.513	0.001	691523	0.50000	0.52	0.00- 20.00	51.85	BA
3.825	3.827	-0.002	1984568	0.50000	0.53	0.00- 20.00	148.80	BA
3.928	3.929	-0.001	852402	0.50000	0.53	0.00- 20.00	63.91	BA
3.993	3.995	-0.002	556499	0.50000	0.51	0.00- 20.00	41.73	BA
Average of Peak Amounts =					0.52400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	5254551	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018028.D

Date : 10-APR-2018 19:39

Client ID: 1232-CCV

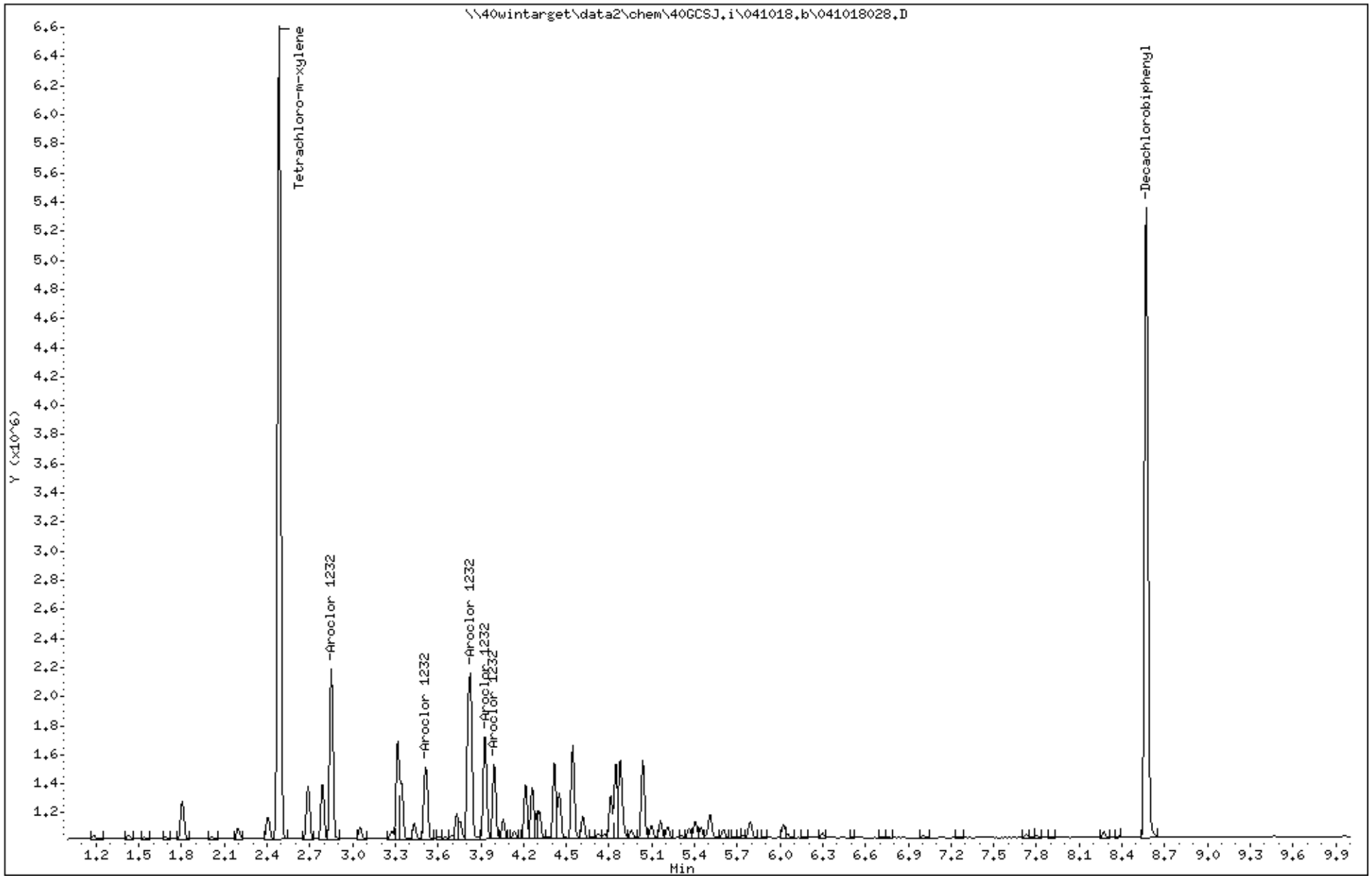
Instrument: 40GCSJ.i

Sample Info: 1232-CCV, 185539:1

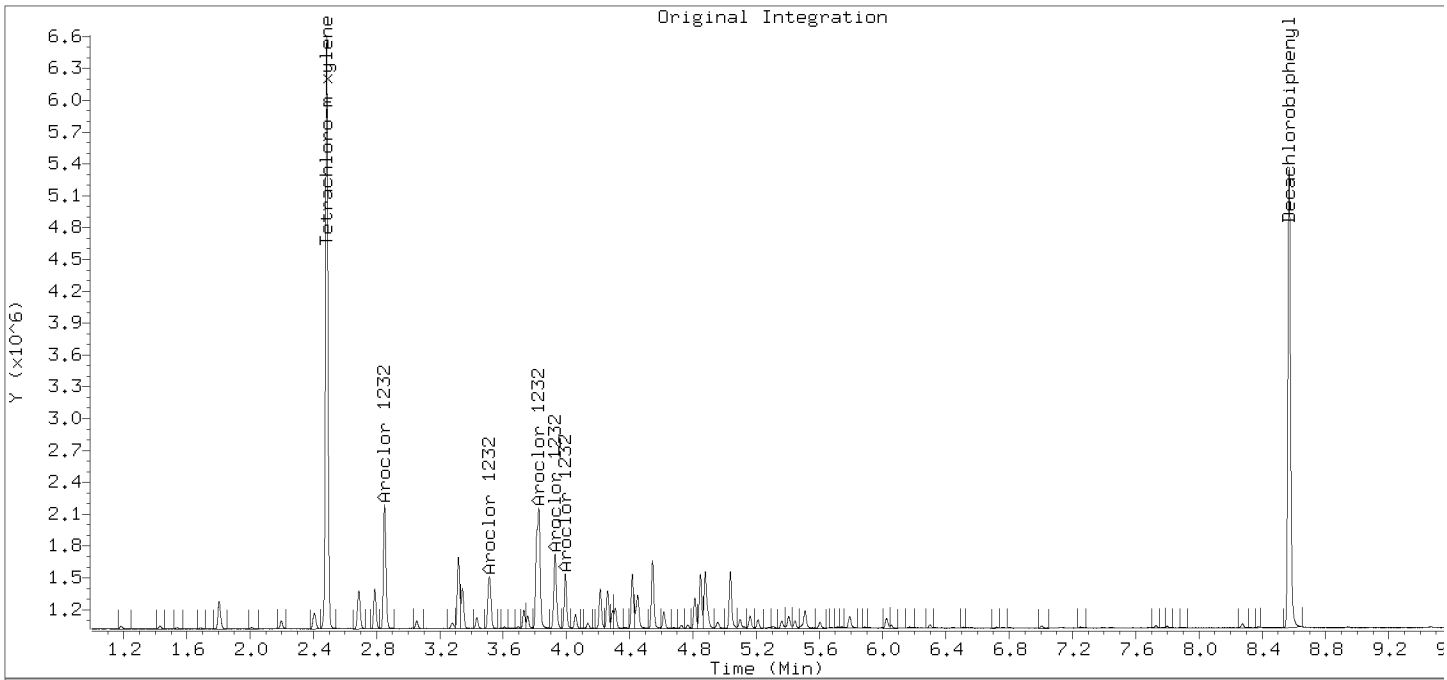
Operator: BLM

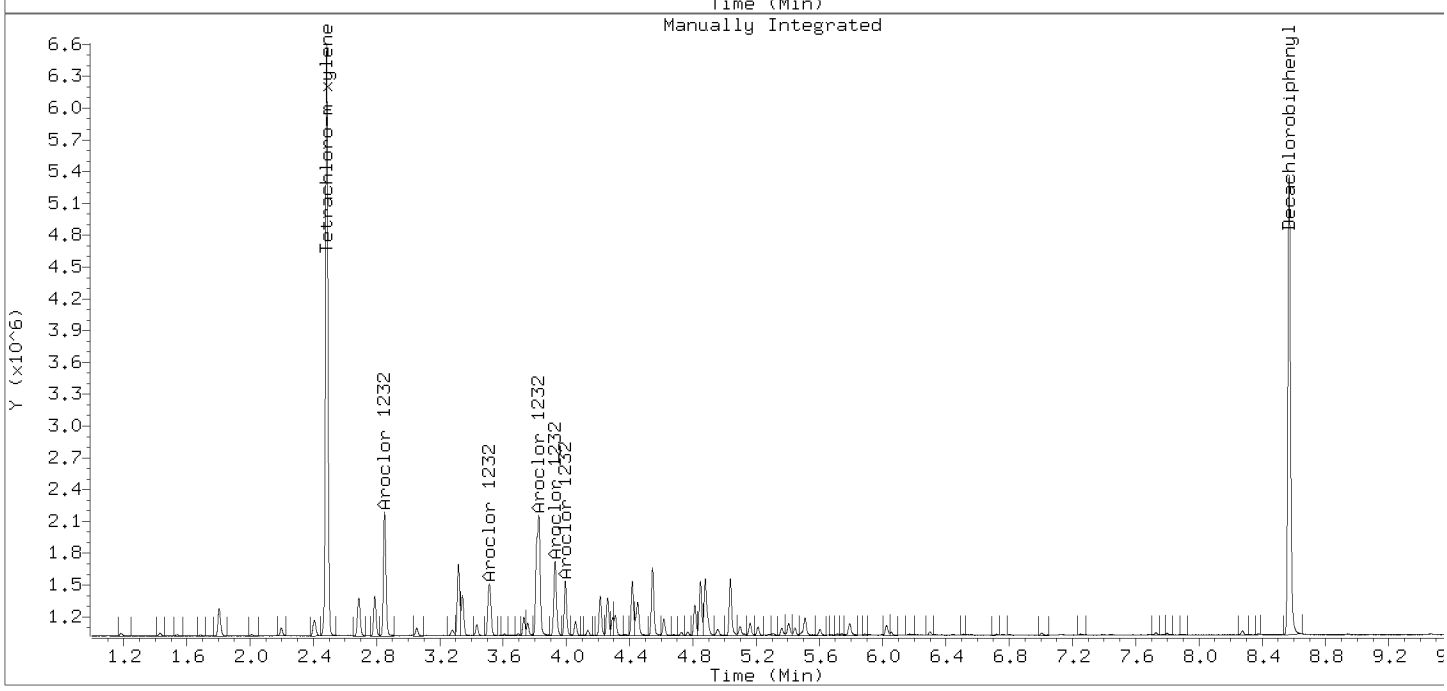
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018040.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 10-APR-2018 22:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

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

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

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018040.D
Lab Smp Id: 1242-CCV Client Smp ID: 1242-CCV
Inj Date : 10-APR-2018 22:49
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1242-ccv, 185544:1
Misc Info : 17498,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 13-Apr-2018 11:26 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	6221107	0.05000	0.050			
3 Aroclor 1242						CAS #: 53469-21-9		
3.316	3.318	-0.002	1328877	0.50000	0.52	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1313172	0.50000	0.52	0.00- 20.00	98.82	BA
3.825	3.827	-0.002	3775081	0.50000	0.53	0.00- 20.00	284.08	BA
3.928	3.929	-0.001	1612591	0.50000	0.53	0.00- 20.00	121.35	BA
3.993	3.995	-0.002	1081178	0.50000	0.53	0.00- 20.00	81.36	BA
Average of Peak Amounts =					0.52600			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.569	8.571	-0.002	5539564	0.05000	0.050			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

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

Date : 10-APR-2018 22:49

Client ID: 1242-CCV

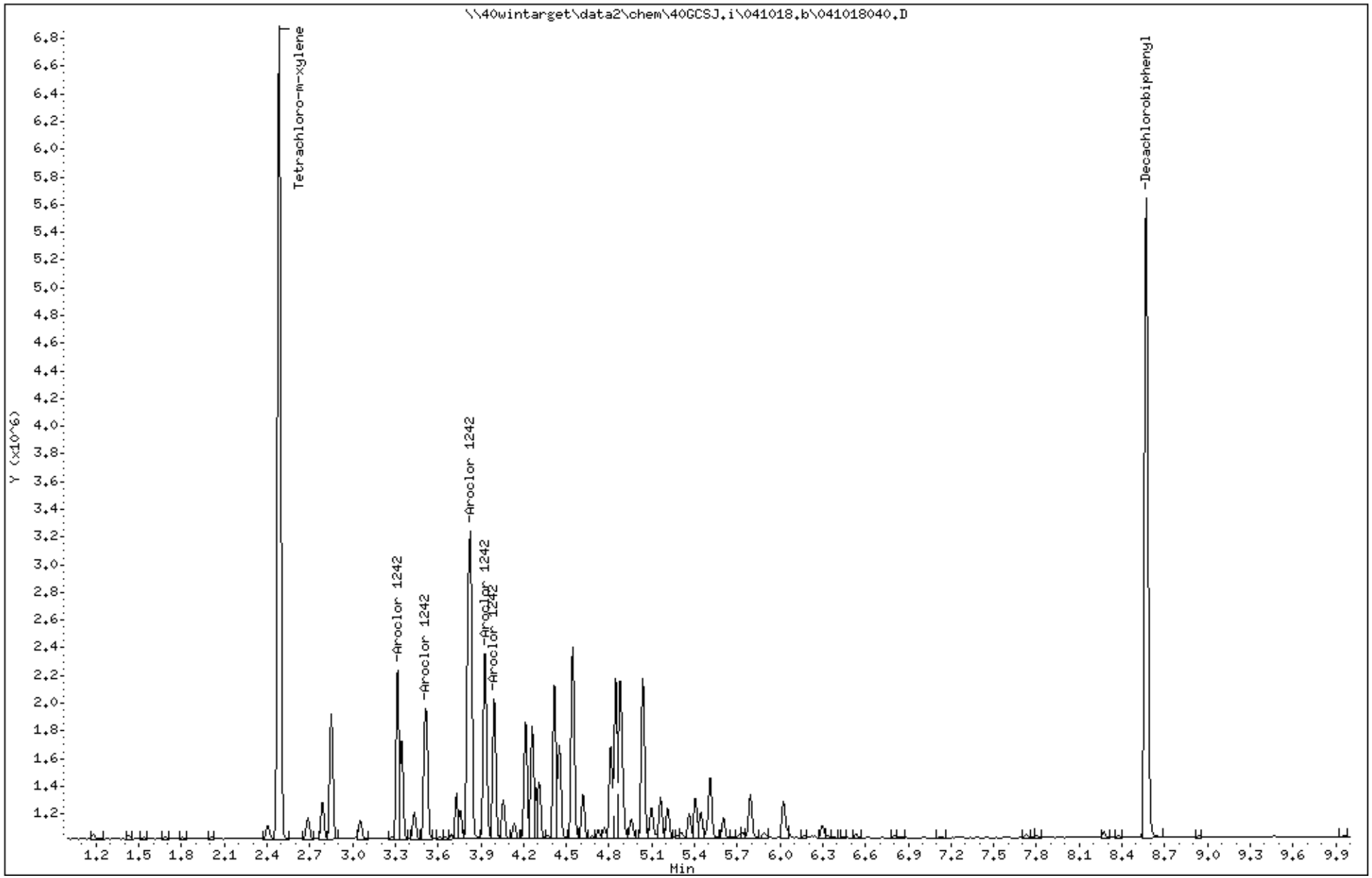
Instrument: 40GCSJ.i

Sample Info: 1242-CCV, 185544:1

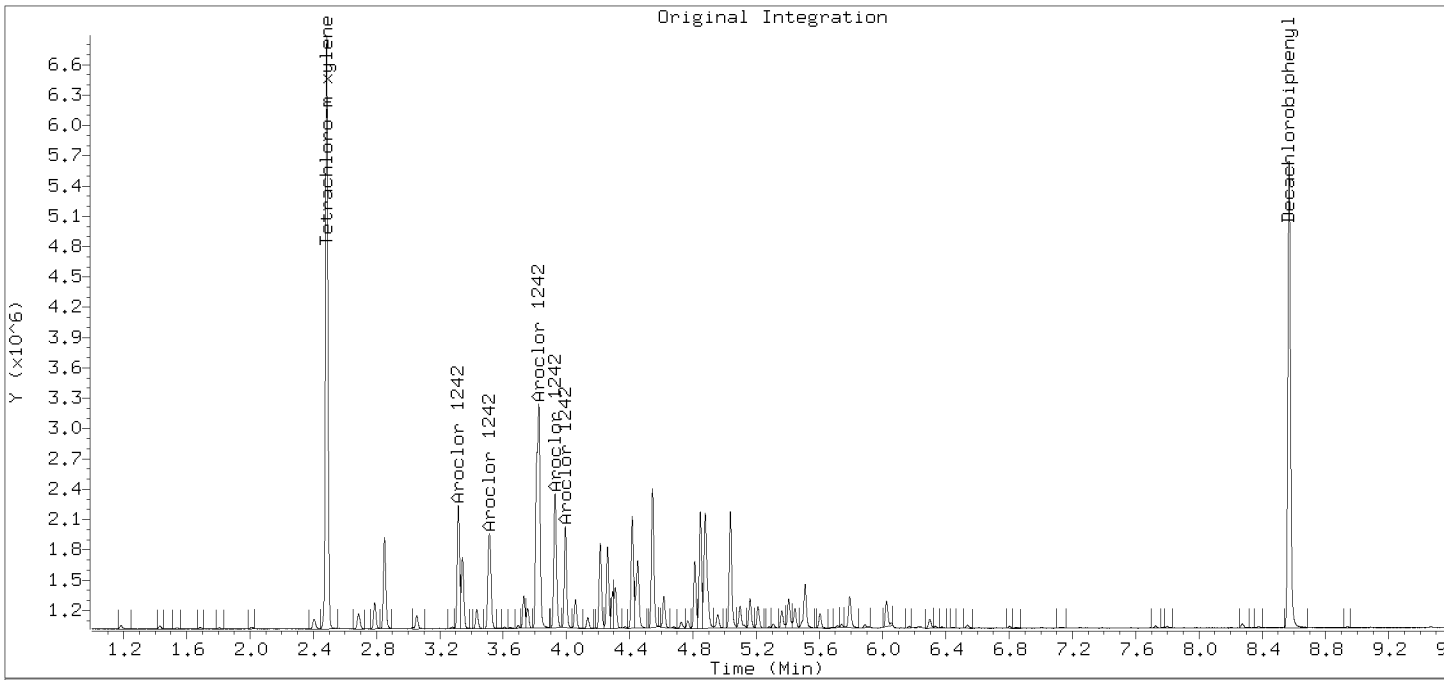
Operator: BLM

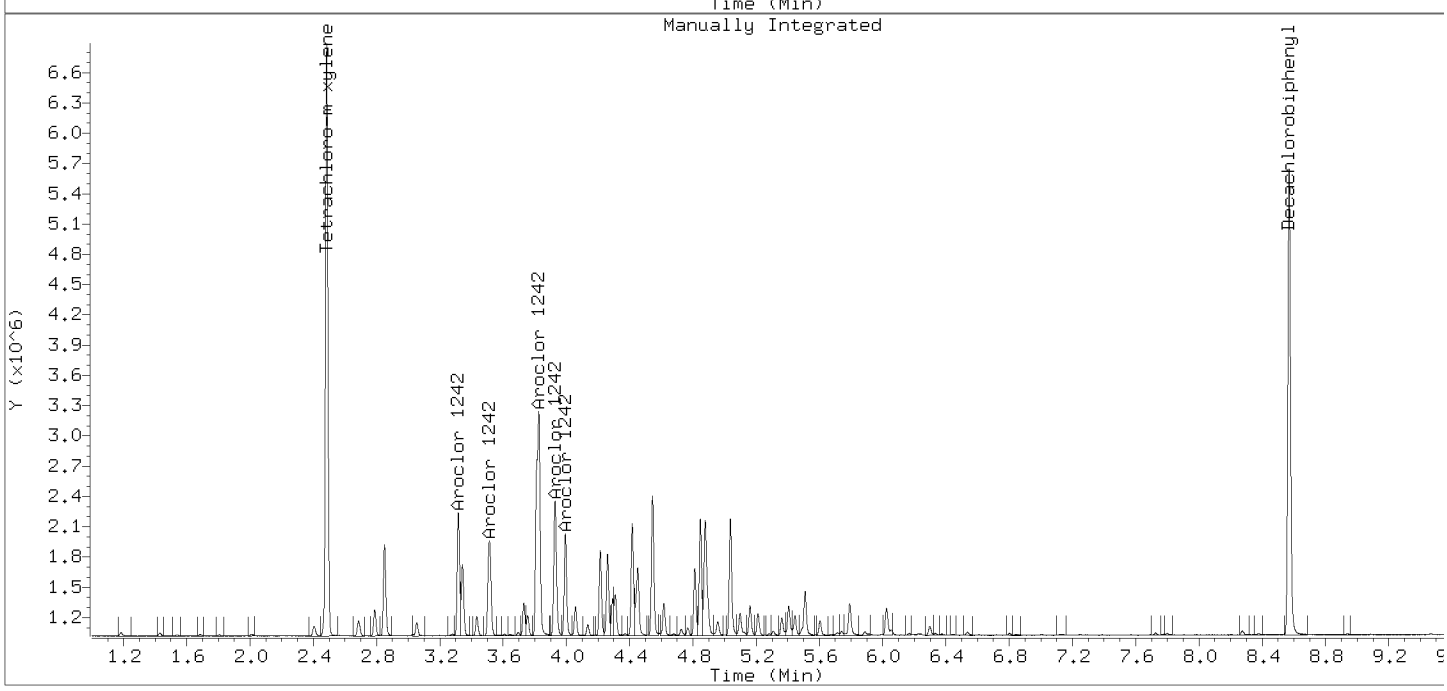
Column phase: ZB-1ms

Column diameter: 0.18



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





Manually Integrated Compounds

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018052.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 11-APR-2018 01:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 52 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
1.188	43394	26381	0.608	0.09		
1.430	40737	29455	0.723	0.08		
1.540	20080	14232	0.709	0.04		
1.689	17555	15549	0.886	0.03		
2.012	26308	15081	0.573	0.05		
2.404	28090	18628	0.663	0.06		
2.485	6223805	5677398	0.912	13.92	$ 2 Tetrachloro-m-xylene	
2.687	31654	24773	0.783	0.06		
2.787	115505	104057	0.901	0.24		
2.851	196430	174841	0.890	0.42		
3.053	69151	54243	0.784	0.14		
3.318	736712	687272	0.933	1.59		
3.344	311445	288291	0.926	0.67		
3.433	73867	61753	0.836	0.15		
3.515	622500	443580	0.713	1.34		
3.609	20756	18873	0.909	0.04		
3.731	137696	134620	0.978	0.29		
3.756	61926	57817	0.934	0.13		
3.814	1114207	1283527	1.152	2.40		
3.825	1383341	1322360	0.956	2.99		
3.929	936574	724421	0.773	2.02		
3.994	622056	588458	0.946	1.34		
4.059	357325	326191	0.913	0.77		
4.135	144706	135555	0.937	0.31		
4.215	1549067	1443378	0.932	3.35		
4.261	1235700	1179538	0.955	2.67	6 Aroclor 1248	BA
4.292	504038	516005	1.024	1.09		
4.309	554807	517325	0.932	1.19		
4.416	1893266	1713718	0.905	4.09		
4.452	933109	809187	0.867	2.01		
4.545	2165202	1961697	0.906	4.68	6 Aroclor 1248	BA
4.590	30976	32390	1.046	0.06		
4.617	495270	465915	0.941	1.07		
4.679	27808	20707	0.745	0.06		
4.726	60809	52674	0.866	0.13		
4.767	115348	107049	0.928	0.24		
4.813	1084950	1027655	0.947	2.34	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.847	2082047	1918327	0.921	4.50	
4.878	2679850	1738570	0.649	5.79	6 Aroclor 1248
4.957	316991	255356	0.806	0.68	
5.037	1923037	1741899	0.906	4.15	6 Aroclor 1248
5.099	670154	529395	0.790	1.44	
5.162	806034	728090	0.903	1.74	
5.211	585915	520949	0.889	1.26	
5.282	39361	37009	0.940	0.08	
5.309	125510	105675	0.842	0.27	
5.363	506921	434975	0.858	1.09	
5.406	863388	760642	0.881	1.86	
5.444	526585	467436	0.888	1.13	
5.509	1423875	1186897	0.834	3.07	
5.604	402149	354700	0.882	0.86	
5.676	50204	39238	0.782	0.10	
5.716	90746	66381	0.732	0.19	
5.740	97243	90540	0.931	0.21	
5.761	35177	40461	1.150	0.07	
5.791	969860	809411	0.835	2.09	
5.887	129333	80187	0.620	0.27	
5.994	28619	28038	0.980	0.06	
6.024	819955	714171	0.871	1.77	
6.053	169692	138194	0.814	0.36	
6.167	90586	58065	0.641	0.19	
6.228	55723	30427	0.546	0.12	
6.298	249689	205304	0.822	0.54	
6.333	49919	41254	0.826	0.10	
6.373	38119	30575	0.802	0.08	
6.433	27594	13755	0.498	0.05	
6.511	44032	40684	0.924	0.09	
6.536	97197	72009	0.741	0.21	
6.660	10614	10362	0.976	0.02	
6.717	40325	35817	0.888	0.08	
6.760	21141	18763	0.888	0.04	
6.802	43742	38072	0.870	0.09	
6.840	14171	12883	0.909	0.03	
7.003	81034	67462	0.833	0.17	
7.121	25902	15847	0.612	0.05	
7.249	31669	26343	0.832	0.06	
7.280	11251	10520	0.935	0.02	
7.389	35495	29953	0.844	0.07	
7.445	34372	31280	0.910	0.07	
7.692	16387	14371	0.877	0.03	
7.728	31121	24885	0.800	0.06	
7.800	34022	19228	0.565	0.07	
7.899	26867	24257	0.903	0.05	
8.276	65775	52934	0.805	0.14	
8.379	20468	13943	0.681	0.04	
8.570	5664657	4700058	0.830	12.25	$ 12 Decachlorobiphenyl
8.941	10242	9567	0.934	0.02	
9.464	19040	12222	0.642	0.04	
9.962	15944	10904	0.684	0.03	
	46235913	40532879		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018052.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 11-APR-2018 01:59
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17498,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	6223804	0.05000	0.050			
6 Aroclor 1248					CAS #: 12672-29-6			
4.260	4.261	-0.001	1235700	0.50000	0.53	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	2165201	0.50000	0.52	0.00- 20.00	175.22	BA
4.812	4.812	0.000	1084950	0.50000	0.53	0.00- 20.00	87.80	BA
4.878	4.879	-0.001	2679849	0.50000	0.53	0.00- 20.00	216.87	BA
5.036	5.038	-0.002	1923036	0.50000	0.54	0.00- 20.00	155.62	BA
Average of Peak Amounts =					0.53000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	5664656	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\041018.b\041018052.D

Date : 11-APR-2018 01:59

Client ID: 1248-CCV

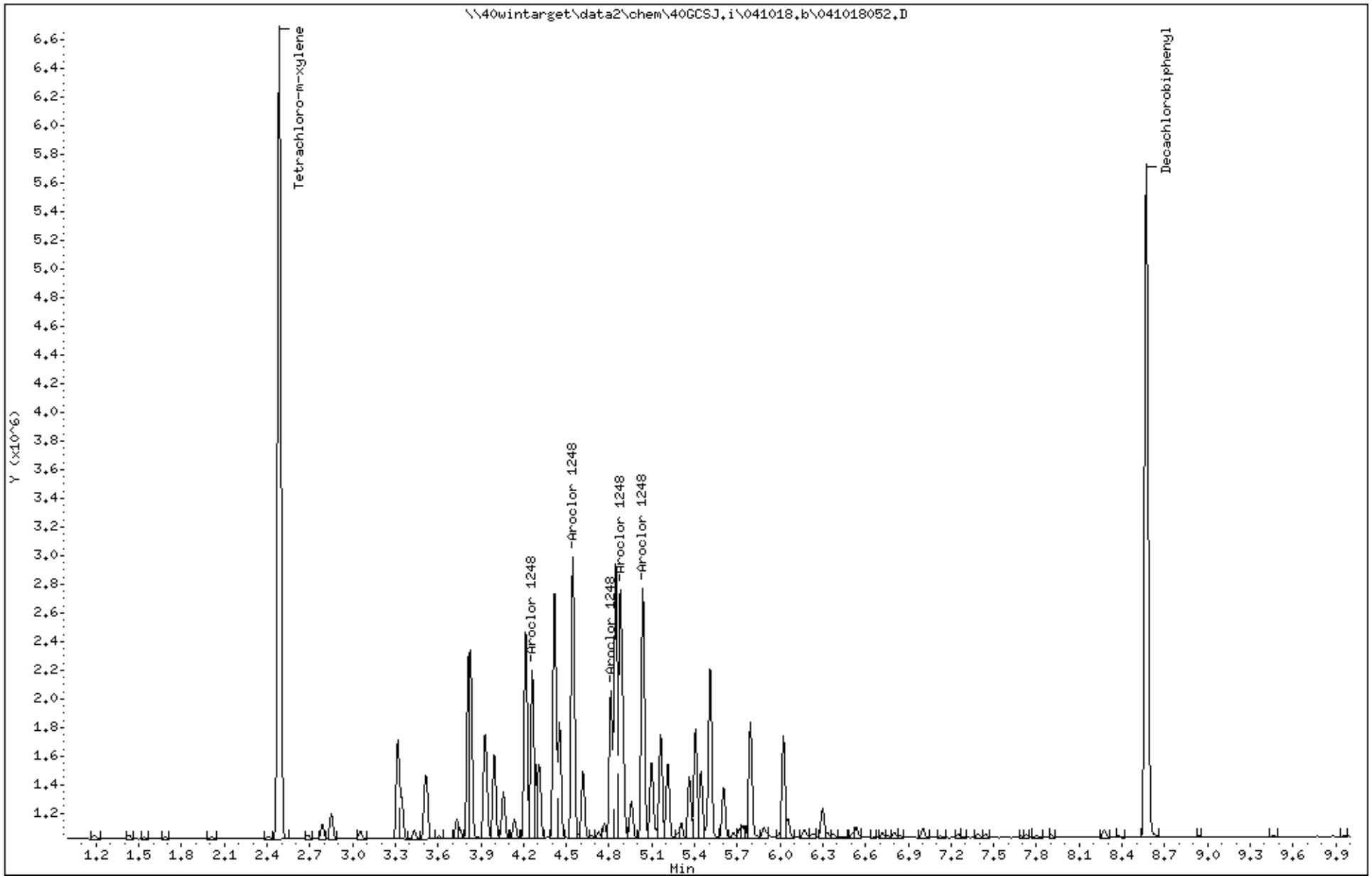
Instrument: 40GCSJ.i

Sample Info: 1248-CCV, 185549:1

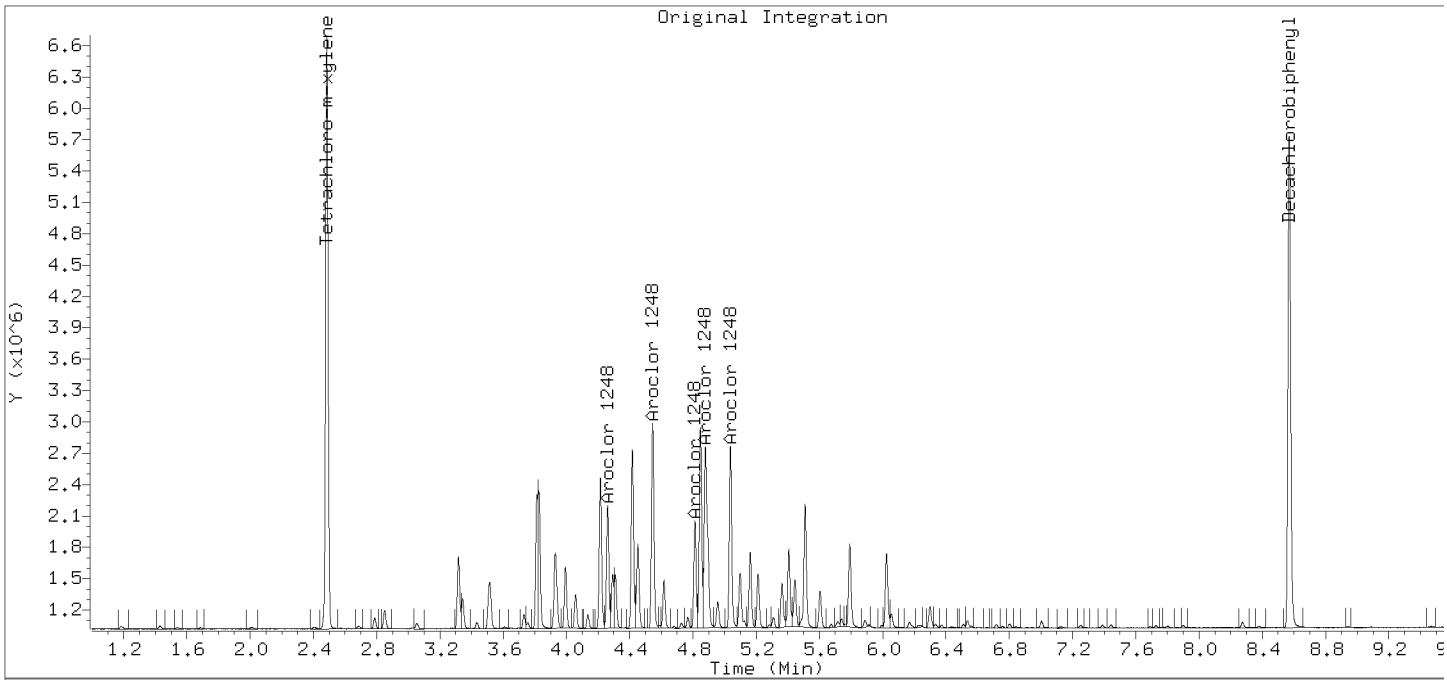
Operator: BLM

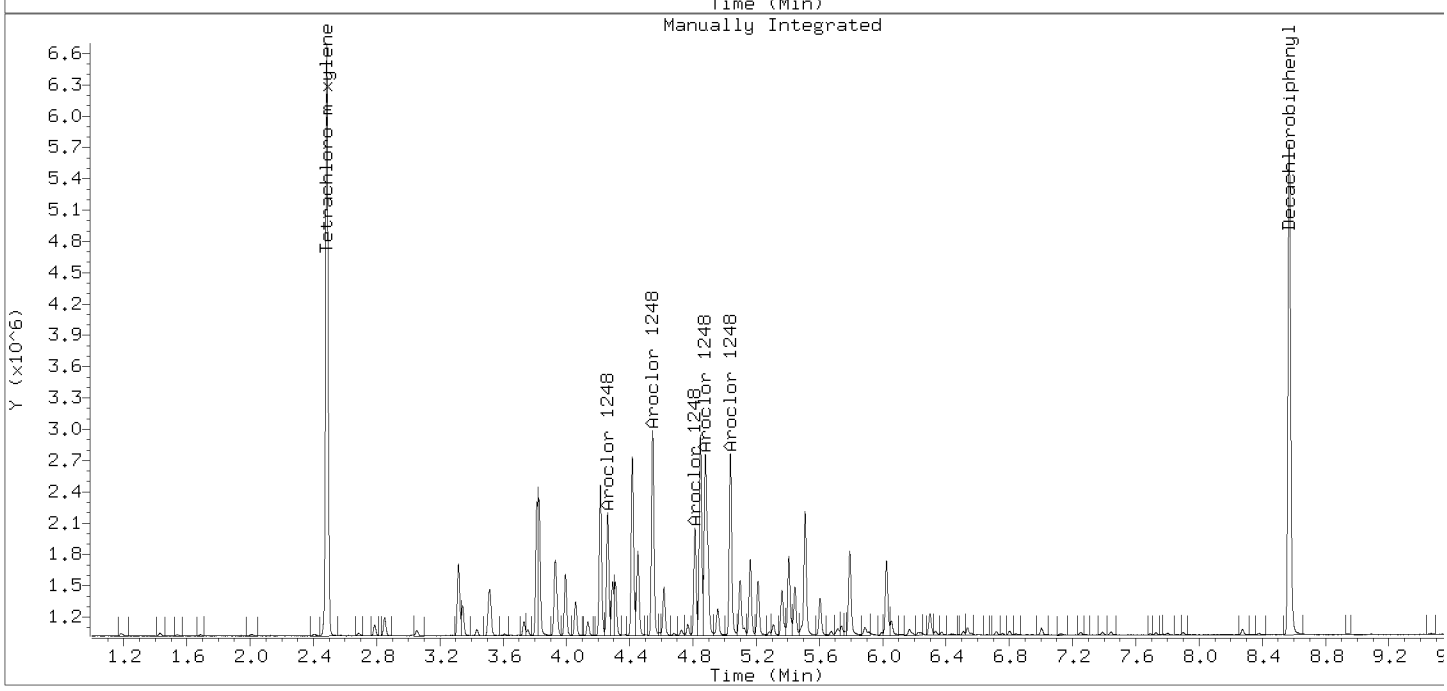
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018052.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 11-APR-2018 01:59 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1227629	1235700	BA
Aroclor 1248	1227629	1235700	BA
Aroclor 1248	1227629	1235700	BA
Aroclor 1248	1227629	1235700	BA
Aroclor 1248	1227629	1235700	BA
Tetrachloro-m-xylene	6223804	6223804	
Decachlorobiphenyl	5664656	5664656	

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.: 40157487

Date Extracted: 03/30/2018 07:22

Lab Sample ID: 1666454

Date Analyzed: 04/02/2018 16:16

Lab File ID: 040218.B\040218008.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\040218.b\040218008.D
Lab Smp Id: 1666454 Client Smp ID: MB
Inj Date : 02-APR-2018 16:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666454,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.184	15310	13331	0.871	0.07		
1.434	11951	8959	0.750	0.05		
1.689	15927	13647	0.857	0.07		
2.198	52066	31112	0.598	0.25		
2.485	9319026	8770618	0.941	46.14	$ 2 Tetrachloro-m-xylene	
2.787	18507	14704	0.795	0.09		
2.858	10787	10022	0.929	0.05		
4.574	9520	3927	0.413	0.04		
7.119	31760	17355	0.546	0.15		
7.681	9865	6624	0.671	0.04		
7.729	58565	47722	0.815	0.29		
7.799	51427	38037	0.740	0.25		
8.274	93839	83960	0.895	0.46		
8.376	30174	18402	0.610	0.14		
8.571	10424009	8615870	0.827	51.73	$ 12 Decachlorobiphenyl	
8.940	13007	10518	0.809	0.06		
9.462	18123	11743	0.648	0.08		
9.960	9936	10420	1.049	0.04		
	20193798	17726971		100.000		

Total unknown % area = 2.1

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218008.D
Lab Smp Id: 1666454 Client Smp ID: MB
Inj Date : 02-APR-2018 16:16
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666454,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.485	2.484	0.001	9319026	0.07558	38			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

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

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7 Aroclor 1254 CAS #: 11097-69-1

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

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8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.571	8.571	0.000	10424008	0.09514		48		

Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218008.D

Date : 02-APR-2018 16:16

Client ID: MB

Instrument: 40GCSJ.i

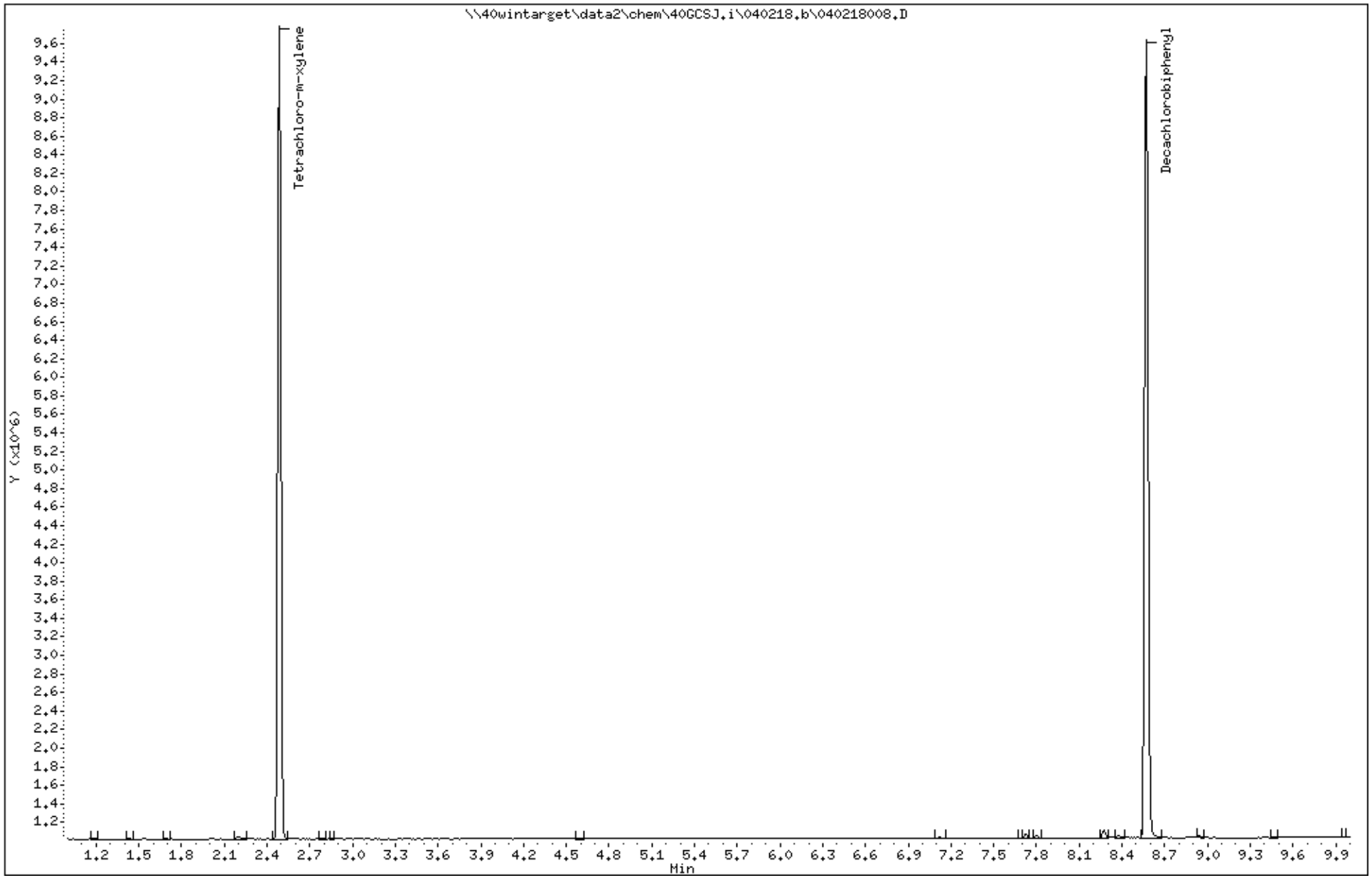
Sample Info: 1666454,

Volume Injected (uL): 1.0

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218008.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 16:16 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1666454

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	9319026	9319026	
Decachlorobiphenyl	10424008	10424008	

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.: 40157487

Date Extracted: 03/30/2018 07:22

Lab Sample ID: 1666455

Date Analyzed: 04/02/2018 16:32

Lab File ID: 040218.B\040218009.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)	239	
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\040218.b\040218009.D
Lab Smp Id: 1666455 Client Smp ID: MBLCS
Inj Date : 02-APR-2018 16:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666455,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.182	11970	7896	0.660	0.02		
1.429	11672	9667	0.828	0.02		
1.539	9958	8718	0.875	0.02		
1.804	16664	12611	0.757	0.03		
2.199	35742	23475	0.657	0.07		
2.406	113350	86784	0.766	0.24		
2.486	10551345	9921646	0.940	22.55	$ 2 Tetrachloro-m-xylene	
2.689	175447	137054	0.781	0.37		
2.790	213232	192132	0.901	0.45		
2.852	936213	837530	0.895	2.00		
3.055	122302	109989	0.899	0.26		
3.277	21273	17937	0.843	0.04		
3.318	1208889	1118049	0.925	2.58	3 Aroclor 1242	BA
3.345	679265	621260	0.915	1.45		
3.436	192069	172828	0.900	0.41		
3.513	1185841	860229	0.725	2.53	3 Aroclor 1242	BA
3.650	21015	14426	0.686	0.04		
3.695	33144	32002	0.966	0.07		
3.733	306516	303000	0.989	0.65		
3.755	206067	194508	0.944	0.44		
3.827	3432045	1988224	0.579	7.33	3 Aroclor 1242	BA
3.930	1480101	1216567	0.822	3.16	3 Aroclor 1242	BA
3.995	967862	915833	0.946	2.06	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.059	265065	236443	0.892	0.56	
4.136	109975	96485	0.877	0.23	
4.215	807119	766155	0.949	1.72	
4.261	764739	728240	0.952	1.63	
4.293	306549	321266	1.048	0.65	
4.310	391123	349553	0.894	0.83	
4.369	26440	20062	0.759	0.05	
4.418	1065424	999519	0.938	2.27	
4.453	823645	595451	0.723	1.76	
4.546	1343601	1237030	0.921	2.87	
4.591	19802	21902	1.106	0.04	
4.618	310631	277625	0.894	0.66	
4.676	23423	17831	0.761	0.05	
4.727	67956	57059	0.840	0.14	
4.769	72026	66770	0.927	0.15	
4.813	615954	593595	0.964	1.31	
4.848	1105748	1010615	0.914	2.36	
4.879	1395389	1063835	0.762	2.98	
4.958	148617	118625	0.798	0.31	
5.037	1151352	1038534	0.902	2.46	
5.100	236764	184716	0.780	0.50	
5.162	274401	250674	0.914	0.58	
5.212	197060	174416	0.885	0.42	
5.283	15130	16326	1.079	0.03	
5.307	48658	39928	0.821	0.10	
5.362	176954	146828	0.830	0.37	
5.408	287889	244276	0.849	0.61	
5.446	180428	155304	0.861	0.38	
5.509	470978	355501	0.755	1.00	
5.605	138437	122035	0.882	0.29	
5.674	13613	12172	0.894	0.02	
5.717	27335	22072	0.807	0.05	
5.741	36706	31753	0.865	0.07	
5.792	318771	241925	0.759	0.68	
5.890	48677	27974	0.575	0.10	
6.025	292551	209438	0.716	0.62	
6.087	80898	58438	0.722	0.17	
6.168	23390	18055	0.772	0.05	
6.299	62313	54407	0.873	0.13	
6.508	10112	10288	1.017	0.02	
6.538	28447	19449	0.684	0.06	
6.717	12300	11296	0.918	0.02	
6.801	13957	13045	0.935	0.02	
7.008	25742	17561	0.682	0.05	
7.121	25230	16505	0.654	0.05	
7.253	11542	7362	0.638	0.02	
7.690	11768	13012	1.106	0.02	
7.728	59891	51749	0.864	0.12	
7.800	43066	39933	0.927	0.09	
8.275	96826	87861	0.907	0.20	
8.376	18748	16082	0.858	0.04	
8.571	10669573	9236557	0.866	23.16	$ 12 Decachlorobiphenyl
9.274	9763	6428	0.658	0.02	
9.470	26561	17280	0.651	0.05	
9.963	33905	20208	0.596	0.07	
	46774943	40369814		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218009.D
Lab Smp Id: 1666455 Client Smp ID: MBLCS
Inj Date : 02-APR-2018 16:32
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666455,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.485	2.484	0.001	10551344	0.08558	43			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1208888	0.47722	240	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1185841	0.47057	240	0.00- 20.00	98.09	BA
3.826	3.827	-0.001	3432045	0.48227	240	0.00- 20.00	283.90	BA
3.929	3.929	0.000	1480100	0.48663	240	0.00- 20.00	122.43	BA
3.994	3.995	-0.001	967862	0.47265	240	0.00- 20.00	80.06	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

8.571	8.571	0.000	10669573	0.09739	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\040218.b\040218009.D

Date : 02-APR-2018 16:32

Client ID: MBLCS

Instrument: 40GCSJ.i

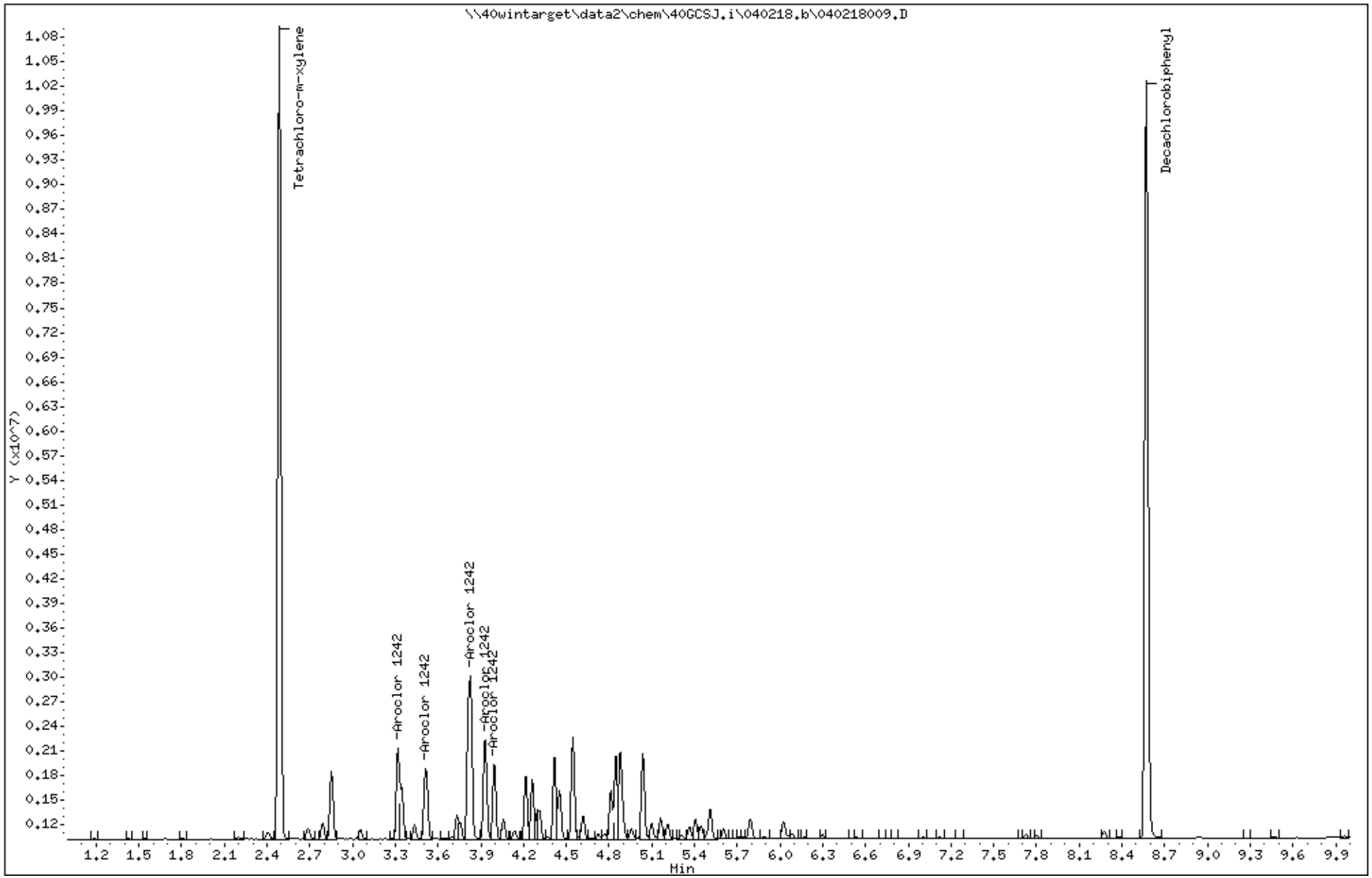
Sample Info: 1666455,

Volume Injected (uL): 1.0

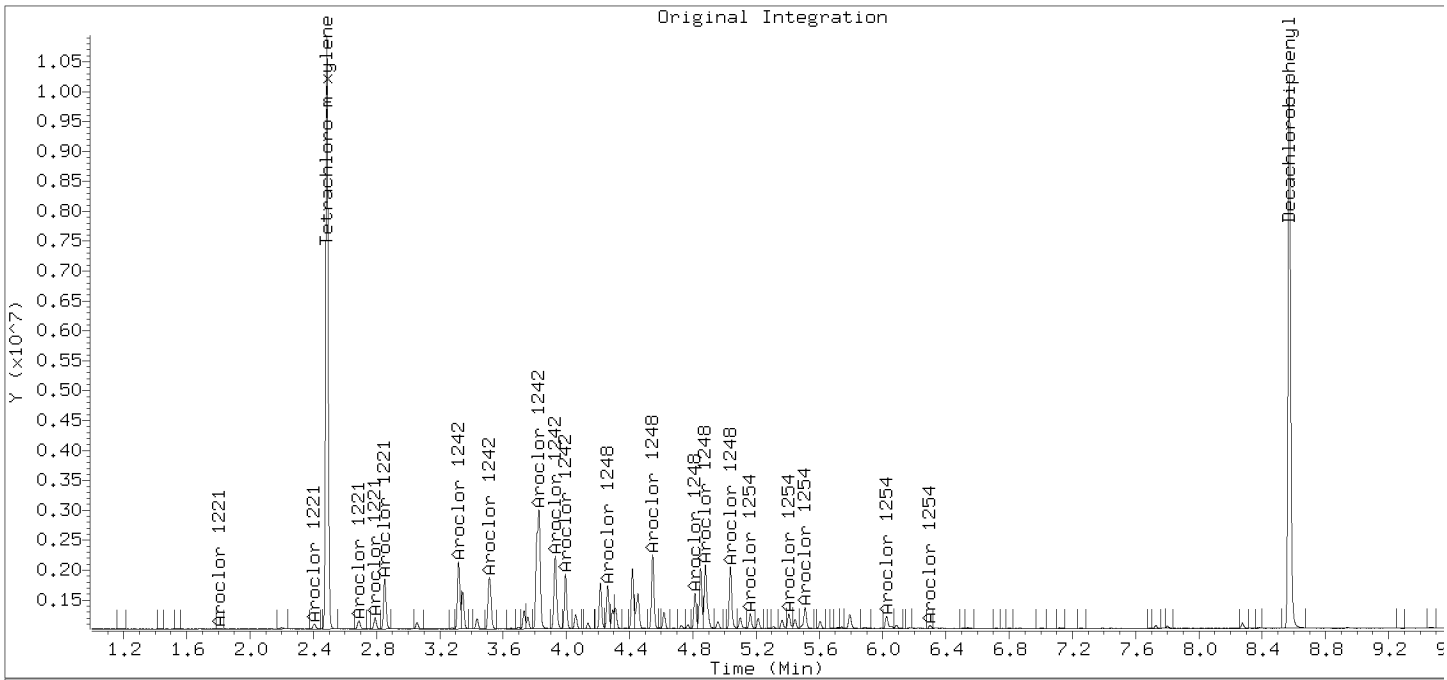
Operator: BLM

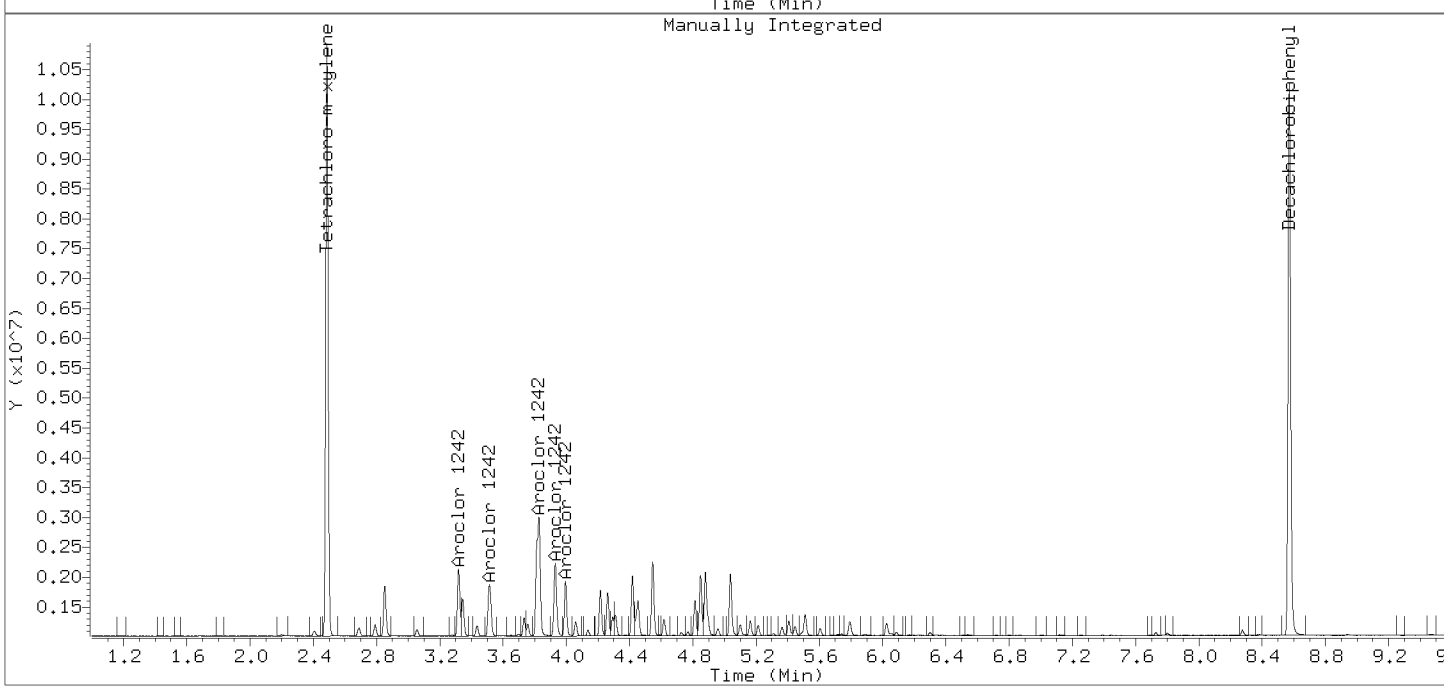
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 16:32 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1666455





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1201825	0	
Aroclor 1016	1201825	0	
Aroclor 1016	1201825	0	
Aroclor 1016	1201825	0	
Aroclor 1016	1201825	0	
Aroclor 1221	16664	0	
Aroclor 1221	16664	0	
Aroclor 1221	16664	0	
Aroclor 1221	16664	0	
Aroclor 1221	16664	0	
Aroclor 1232	927588	0	
Aroclor 1232	927588	0	
Aroclor 1232	927588	0	
Aroclor 1232	927588	0	

Aroclor 1232	927588	0	
Aroclor 1242	1201825	1208888	BA
Aroclor 1242	1201825	1208888	BA
Aroclor 1242	1201825	1208888	BA
Aroclor 1242	1201825	1208888	BA
Aroclor 1242	1201825	1208888	BA
Aroclor 1248	757725	0	
Aroclor 1248	757725	0	
Aroclor 1248	757725	0	
Aroclor 1248	757725	0	
Aroclor 1248	757725	0	
Aroclor 1254	264267	0	
Aroclor 1254	264267	0	
Aroclor 1254	264267	0	
Aroclor 1254	264267	0	
Aroclor 1254	264267	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10551344	10551344	
Decachlorobiphenyl	10669573	10669573	

==========

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: 09/27/2017 10:20

Matrix: Tissue SDG No.: 40157487

Date Extracted: 03/30/2018 07:22

Lab Sample ID: 1666456

Date Analyzed: 04/02/2018 19:26

Lab File ID: 040218.B\040218020.D

Initial wt/vol: 9.9998 g Final wt/vol: 5 mL Dilution: 10

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	<114	U
11141-16-5	PCB-1232 (Aroclor 1232)	<114	U
53469-21-9	PCB-1242 (Aroclor 1242)	313	J
12672-29-6	PCB-1248 (Aroclor 1248)	907	
11097-69-1	PCB-1254 (Aroclor 1254)	971	
11096-82-5	PCB-1260 (Aroclor 1260)	322	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218020.D
Lab Smp Id: 1666456 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 19:26
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666456 x10,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20 QC Sample: MS
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.178	10312	8620	0.836	0.03		
2.409	26319	17299	0.657	0.09		
2.484	956000	923700	0.966	3.44	$ 2 Tetrachloro-m-xylene	
2.686	21548	17276	0.802	0.07		
2.787	28219	23206	0.822	0.10		
2.851	110917	95749	0.863	0.39		
3.055	30764	22824	0.742	0.11		
3.317	138728	133091	0.959	0.50	3 Aroclor 1242	BA
3.344	91949	81085	0.882	0.33		
3.435	54558	44755	0.820	0.19		
3.516	159693	111618	0.699	0.57	3 Aroclor 1242	BA
3.732	100316	70445	0.702	0.36		
3.826	491464	285679	0.581	1.77	3 Aroclor 1242	BA
3.929	191565	140448	0.733	0.69	3 Aroclor 1242	BA
3.993	129044	120031	0.930	0.46	3 Aroclor 1242	BA
4.058	46262	39003	0.843	0.16		
4.136	16257	14430	0.888	0.05		
4.215	526053	488352	0.928	1.89		
4.261	549873	528835	0.962	1.98	6 Aroclor 1248	BA
4.292	780793	638116	0.817	2.81		
4.418	207737	191431	0.922	0.74		
4.452	186369	153600	0.824	0.67		
4.545	447696	409732	0.915	1.61	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.589	74815	69773	0.933	0.26	
4.615	56960	45363	0.796	0.20	
4.682	84270	73520	0.872	0.30	
4.735	103602	84090	0.812	0.37	
4.768	146370	138218	0.944	0.52	
4.812	494805	468274	0.946	1.78	6 Aroclor 1248
4.848	334088	313273	0.938	1.20	
4.878	1085655	704623	0.649	3.91	6 Aroclor 1248
4.957	241086	198178	0.822	0.86	
5.037	377947	332654	0.880	1.36	6 Aroclor 1248
5.101	491436	443413	0.902	1.77	
5.161	1122101	1007336	0.898	4.04	7 Aroclor 1254
5.212	1049188	924471	0.881	3.78	
5.283	115194	101733	0.883	0.41	
5.306	128723	108662	0.844	0.46	
5.361	303363	271097	0.894	1.09	
5.406	633116	552384	0.872	2.28	7 Aroclor 1254
5.446	614786	495991	0.807	2.21	
5.509	1017247	860831	0.846	3.66	7 Aroclor 1254
5.576	80460	73848	0.918	0.29	
5.603	111040	93692	0.844	0.40	
5.675	315434	292935	0.929	1.13	
5.717	100143	85208	0.851	0.36	
5.743	323605	234463	0.725	1.16	
5.790	1971710	1485660	0.753	7.10	
5.887	141354	99921	0.707	0.50	
5.930	146782	115165	0.785	0.52	
5.993	407339	373158	0.916	1.46	
6.024	738813	666364	0.902	2.66	7 Aroclor 1254
6.054	1459058	1238645	0.849	5.26	
6.168	236831	199278	0.841	0.85	
6.226	249510	139910	0.561	0.89	
6.299	2126668	1678668	0.789	8.10	7 Aroclor 1254
6.333	210368	193466	0.920	0.75	
6.372	92076	73651	0.800	0.33	
6.432	134230	102278	0.762	0.48	
6.509	655176	601790	0.919	2.36	
6.535	382532	332580	0.869	1.37	
6.560	156841	146959	0.937	0.56	
6.605	78954	63831	0.808	0.28	
6.660	30710	28798	0.938	0.11	
6.717	100927	83611	0.828	0.36	
6.760	91916	82723	0.900	0.33	
6.800	272524	238457	0.875	0.98	
6.841	87275	60301	0.691	0.31	
6.910	15397	14498	0.942	0.05	
6.943	87440	78388	0.896	0.31	
7.003	538939	480865	0.892	1.94	8 Aroclor 1260
7.034	52046	60922	1.171	0.18	
7.074	12536	11247	0.897	0.04	
7.251	281520	243052	0.863	1.01	8 Aroclor 1260
7.281	97142	79351	0.817	0.35	
7.390	225752	195876	0.868	0.81	
7.443	243742	205090	0.841	0.87	8 Aroclor 1260
7.554	17932	13989	0.780	0.06	
7.689	69663	57776	0.829	0.25	
7.726	35282	30351	0.860	0.12	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.802	34697	21435	0.618	0.12	
7.899	162261	135805	0.837	0.58	8 Aroclor 1260
7.964	24246	14398	0.594	0.08	
8.049	19191	13433	0.700	0.06	
8.275	147632	122422	0.829	0.53	
8.570	1160324	1003430	0.865	4.18	$ 12 Decachlorobiphenyl
9.165	10161	10788	1.062	0.03	
9.467	10391	8087	0.778	0.03	
9.960	10175	8831	0.868	0.03	
	27735933	23348603		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218020.D
Lab Smp Id: 1666456 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 19:26
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666456 x10,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 20 QC Sample: MS
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	955999	0.00775	39			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	138728	0.05476	270	0.00- 20.00	100.00(M)	BA
3.515	3.513	0.002	159692	0.06337	320	0.00- 20.00	115.11	BA
3.826	3.827	-0.001	491463	0.06906	340	0.00- 20.00	354.26	BA
3.929	3.929	0.000	191565	0.06298	310	0.00- 20.00	138.09	BA
3.993	3.995	-0.002	129044	0.06302	320	0.00- 20.00	93.02	BA
Average of Peak Concentrations =					310			

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	549872	0.23469	1200	0.00- 20.00	100.00(M)	BA
4.545	4.546	-0.001	447696	0.10787	540	0.00- 20.00	81.42	BA
4.812	4.812	0.000	494805	0.24374	1200	0.00- 20.00	89.99	BA
4.878	4.879	-0.001	1085655	0.21552	1100	0.00- 20.00	197.44	BA
5.037	5.038	-0.001	377946	0.10532	530	0.00- 20.00	68.73	BA
Average of Peak Concentrations =					910			
7 Aroclor 1254					CAS #: 11097-69-1			
5.160	5.162	-0.002	1122100	0.21434	1100	0.00- 20.00	100.00(M)	BA
5.406	5.408	-0.002	633116	0.14720	740	0.00- 20.00	56.42	BA
5.509	5.510	-0.001	1017247	0.13099	650	0.00- 20.00	90.66	BA
6.024	6.027	-0.003	738813	0.15172	760	0.00- 20.00	65.84	BA
6.299	6.299	0.000	2126667	0.32682	1600	0.00- 20.00	189.53	BA
Average of Peak Concentrations =					970			
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	538938	0.05382	270	0.00- 20.00	0.00	BA
7.250	7.251	-0.001	281519	0.05890	290	0.00- 20.00	0.00	BA
7.442	7.443	-0.001	243741	0.08361	420	0.00- 20.00	0.00	BA
7.899	7.901	-0.002	162260	0.06149	310	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					320			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.570	8.571	-0.001	1160323	0.01059	53			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218020.D

Date : 02-APR-2018 19:26

Client ID: SW3-170614-01-LMB-0

Instrument: 40GCSJ.i

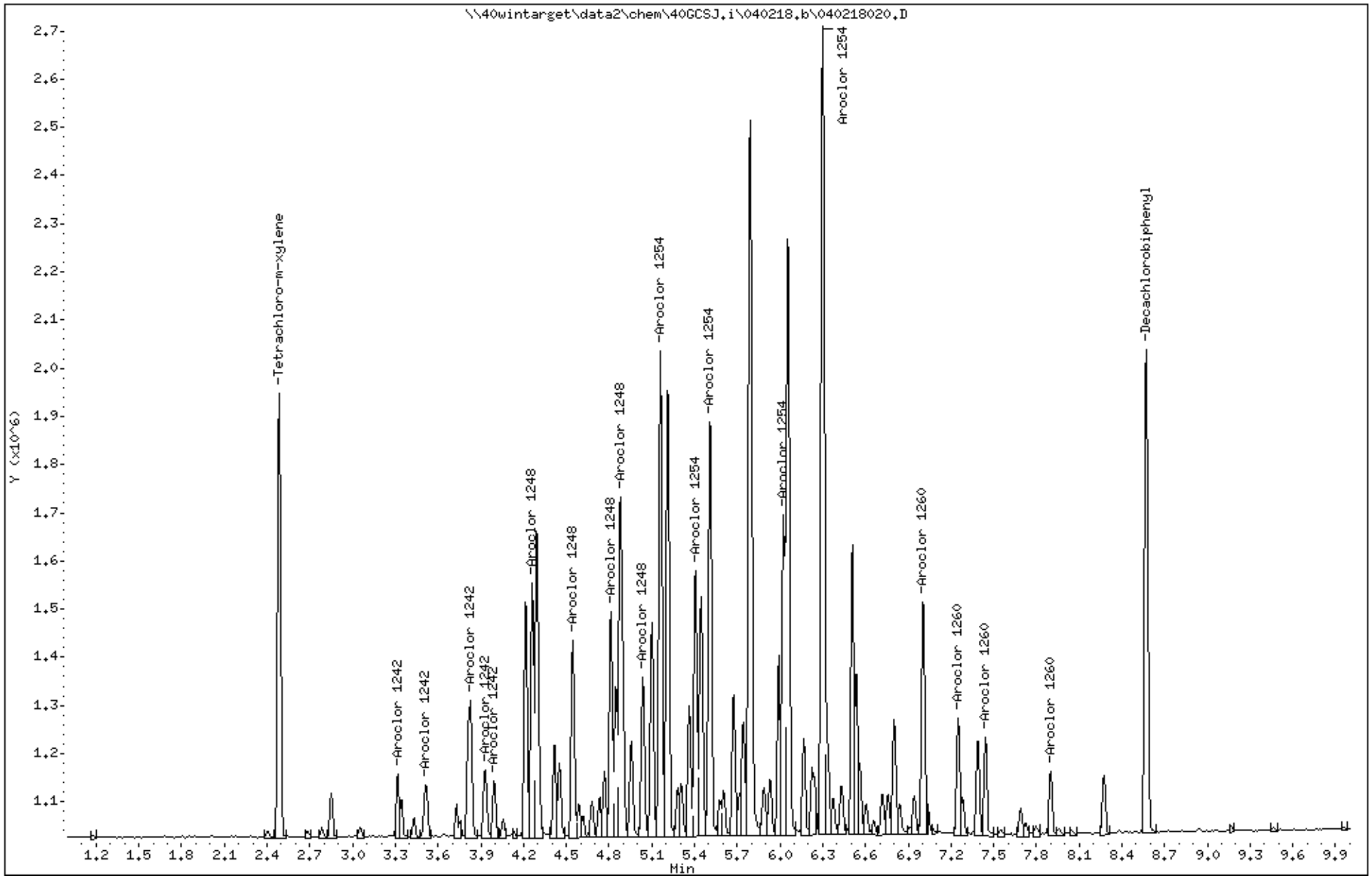
Sample Info: 1666456 x10,

Volume Injected (uL): 1.0

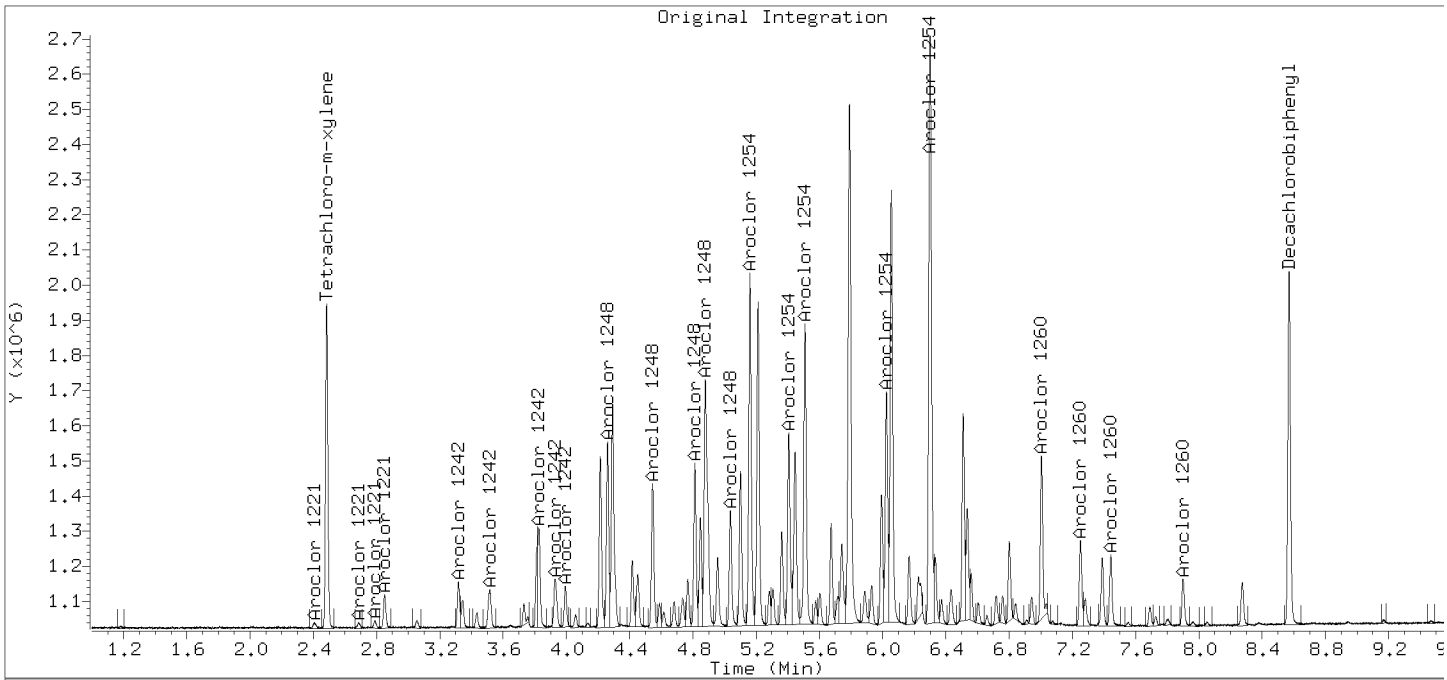
Operator: BLM

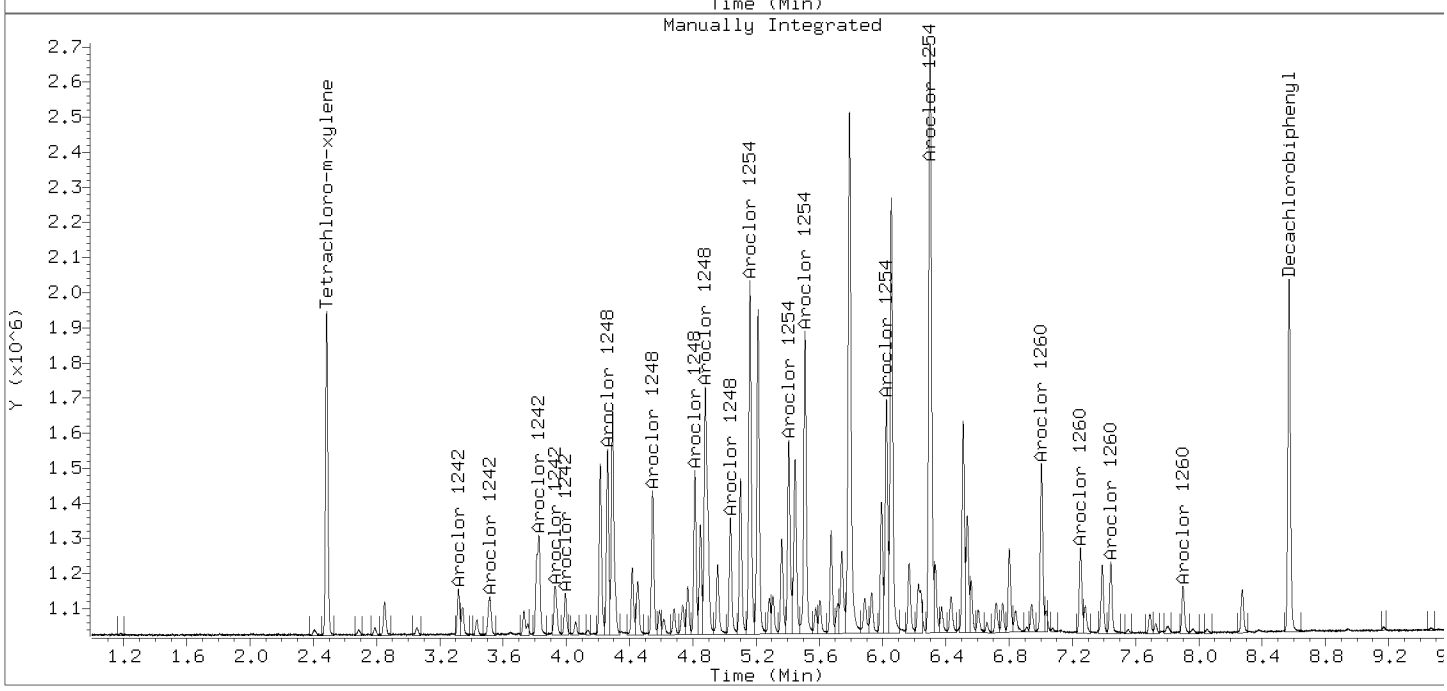
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 19:26 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1666456





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	136364	0	
Aroclor 1016	136364	0	
Aroclor 1016	136364	0	
Aroclor 1016	136364	0	
Aroclor 1016	136364	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	107709	0	
Aroclor 1232	107709	0	
Aroclor 1232	107709	0	
Aroclor 1232	107709	0	

Aroclor 1232	107709	0	
Aroclor 1242	136364	138728	BA
Aroclor 1242	136364	138728	BA
Aroclor 1242	136364	138728	BA
Aroclor 1242	136364	138728	BA
Aroclor 1242	136364	138728	BA
Aroclor 1248	543650	549872	BA
Aroclor 1248	543650	549872	BA
Aroclor 1248	543650	549872	BA
Aroclor 1248	543650	549872	BA
Aroclor 1248	543650	549872	BA
Aroclor 1254	1107155	1122100	BA
Aroclor 1254	1107155	1122100	BA
Aroclor 1254	1107155	1122100	BA
Aroclor 1254	1107155	1122100	BA
Aroclor 1254	1107155	1122100	BA
Aroclor 1260	2104422	0	BA
Aroclor 1260	2104422	0	BA
Aroclor 1260	2104422	0	BA
Aroclor 1260	2104422	0	BA
Aroclor 1260	2104422	0	BA
Tetrachloro-m-xylene	955999	955999	
Decachlorobiphenyl	1160323	1160323	

==========

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: 09/27/2017 10:20

Matrix: Tissue SDG No.: 40157487

Date Extracted: 03/30/2018 07:22

Lab Sample ID: 1666457

Date Analyzed: 04/02/2018 19:42

Lab File ID: 040218.B\040218021.D

Initial wt/vol: 9.9976 g Final wt/vol: 5 mL Dilution: 10

Instrument: 40GCSJ Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<114	U
11104-28-2	PCB-1221 (Aroclor 1221)	<114	U
11141-16-5	PCB-1232 (Aroclor 1232)	<114	U
53469-21-9	PCB-1242 (Aroclor 1242)	<114	U
12672-29-6	PCB-1248 (Aroclor 1248)	789	
11097-69-1	PCB-1254 (Aroclor 1254)	990	
11096-82-5	PCB-1260 (Aroclor 1260)	360	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218021.D
Lab Smp Id: 1666457 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 19:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666457 x10,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21 QC Sample: FIELDDUP
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.998	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.014	11425	9183	0.804	0.04		
2.485	853894	800860	0.938	3.26	$ 2 Tetrachloro-m-xylene	
3.054	16917	11832	0.699	0.06		
3.318	12313	12164	0.988	0.04	3 Aroclor 1242	BA
3.344	19873	16226	0.816	0.07		
3.432	34624	29374	0.848	0.13		
3.518	31749	26282	0.828	0.12	3 Aroclor 1242	BA
3.732	58229	38694	0.665	0.22		
3.814	46141	74362	1.612	0.17		
3.826	111082	88312	0.795	0.42	3 Aroclor 1242	BA
3.938	45789	31751	0.693	0.17	3 Aroclor 1242	BA
3.994	38717	31998	0.826	0.14	3 Aroclor 1242	BA
4.056	17248	16143	0.936	0.06		
4.215	463450	432338	0.933	1.76		
4.261	500526	475400	0.950	1.91	6 Aroclor 1248	BA
4.292	739120	627264	0.849	2.82		
4.417	101910	94529	0.928	0.38		
4.452	111108	97490	0.877	0.42		
4.547	326847	301720	0.923	1.24	6 Aroclor 1248	BA
4.589	78046	69111	0.886	0.29		
4.615	24406	18586	0.762	0.09		
4.681	84823	72987	0.860	0.32		
4.736	101779	82923	0.815	0.38		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.769	145762	130988	0.899	0.55	
4.814	454133	419358	0.923	1.73	6 Aroclor 1248
4.848	236826	223994	0.946	0.90	
4.879	988787	629344	0.636	3.77	6 Aroclor 1248
4.956	231095	193237	0.836	0.88	
5.037	276096	239068	0.866	1.05	6 Aroclor 1248
5.102	490314	449122	0.916	1.87	
5.162	1143230	982233	0.859	4.36	7 Aroclor 1254
5.212	1075893	948278	0.881	4.10	
5.284	115118	112415	0.977	0.43	
5.307	129281	107590	0.832	0.49	
5.362	296698	263409	0.888	1.13	
5.406	637408	552646	0.867	2.43	7 Aroclor 1254
5.447	623184	523369	0.840	2.37	
5.510	997873	861364	0.863	3.81	7 Aroclor 1254
5.578	83798	75694	0.903	0.32	
5.604	102073	87081	0.853	0.38	
5.674	326762	303354	0.928	1.24	
5.717	103106	82929	0.804	0.39	
5.741	325967	244949	0.751	1.24	
5.790	2036298	1507285	0.740	7.77	
5.889	138166	99254	0.718	0.52	
5.931	152664	121590	0.796	0.58	
5.993	436208	396806	0.910	1.66	
6.024	742026	676430	0.912	2.83	7 Aroclor 1254
6.054	1557906	1323927	0.850	5.94	
6.168	243145	206879	0.851	0.92	
6.227	146130	143771	0.984	0.55	
6.300	2228174	1768063	0.794	8.95	7 Aroclor 1254
6.333	229905	201248	0.875	0.87	
6.373	92914	73540	0.791	0.35	
6.433	140168	110947	0.792	0.53	
6.509	713044	662644	0.929	2.72	
6.535	396945	353456	0.890	1.51	
6.558	174548	153464	0.879	0.66	
6.604	83439	72549	0.869	0.31	
6.659	32748	27819	0.849	0.12	
6.717	107835	92998	0.862	0.41	
6.757	97301	89555	0.920	0.37	
6.801	285563	250826	0.878	1.09	
6.841	95087	65807	0.692	0.36	
6.911	17558	17791	1.013	0.06	
6.943	93583	88066	0.941	0.35	
7.004	585367	526553	0.900	2.23	8 Aroclor 1260
7.036	62389	66077	1.059	0.23	
7.077	20037	12281	0.613	0.07	
7.251	307525	272660	0.887	1.17	8 Aroclor 1260
7.281	108062	83386	0.772	0.41	
7.389	257095	213333	0.830	0.98	
7.441	274197	225052	0.821	1.04	8 Aroclor 1260
7.554	23999	15790	0.658	0.09	
7.691	73378	63294	0.863	0.28	
7.726	38052	33946	0.892	0.14	
7.802	38649	23541	0.609	0.14	
7.901	187500	152816	0.815	0.71	8 Aroclor 1260
7.958	24175	14946	0.618	0.09	
8.274	160547	149780	0.933	0.61	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.377	12583	11276	0.896	0.04	
8.569	1081094	933133	0.863	4.12	$ 12 Decachlorobiphenyl
8.728	11135	9020	0.810	0.04	
8.935	14307	9985	0.698	0.05	
9.170	20650	15352	0.743	0.07	
9.465	10712	8941	0.835	0.04	
9.955	20522	12662	0.617	0.07	
	26186751	22248490		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218021.D
Lab Smp Id: 1666457 Client Smp ID: SW3-170614-01-LMB-0
Inj Date : 02-APR-2018 19:42
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1666457 x10,
Misc Info : 17607,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\040218.b\pcba030618.m
Meth Date : 10-Apr-2018 09:36 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 21 QC Sample: FIELDDUP
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	9.998	Weight of sample extracted
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	853893	0.00693	35			
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			
4.260	4.261	-0.001	500525	0.21363	1100	0.00- 20.00	100.00(M)	BA
4.546	4.546	0.000	326846	0.07875	390	0.00- 20.00	65.30	BA
4.813	4.812	0.001	454132	0.22370	1100	0.00- 20.00	90.73	BA
4.878	4.879	-0.001	988787	0.19629	980	0.00- 20.00	197.55	BA
5.036	5.038	-0.002	276096	0.07694	380	0.00- 20.00	55.16	BA
Average of Peak Concentrations =					790			
7 Aroclor 1254					CAS #: 11097-69-1			
5.161	5.162	-0.001	1143229	0.21837	1100	0.00- 20.00	100.00(M)	BA
5.405	5.408	-0.003	637408	0.14820	740	0.00- 20.00	55.76	BA
5.509	5.510	-0.001	997873	0.12849	640	0.00- 20.00	87.29	BA
6.023	6.027	-0.004	742026	0.15238	760	0.00- 20.00	64.91	BA
6.299	6.299	0.000	2228174	0.34242	1700	0.00- 20.00	194.90	BA
Average of Peak Concentrations =					990			
8 Aroclor 1260					CAS #: 11096-82-5			
6.300	6.300	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.003	7.006	-0.003	585367	0.05845	290	0.00- 20.00	29.03	CO
7.250	7.251	-0.001	307524	0.06434	320	0.00- 20.00	13.80	CO
7.440	7.443	-0.003	274196	0.09406	470	0.00- 20.00	12.31	CO
7.901	7.901	0.000	187500	0.07106	360	0.00- 20.00	8.41	CO
Average of Peak Concentrations =					360			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.569	8.571	-0.002	1081094	0.00987	49			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b\040218021.D

Date : 02-APR-2018 19:42

Client ID: SW3-170614-01-LMB-0

Instrument: 40GCSJ.i

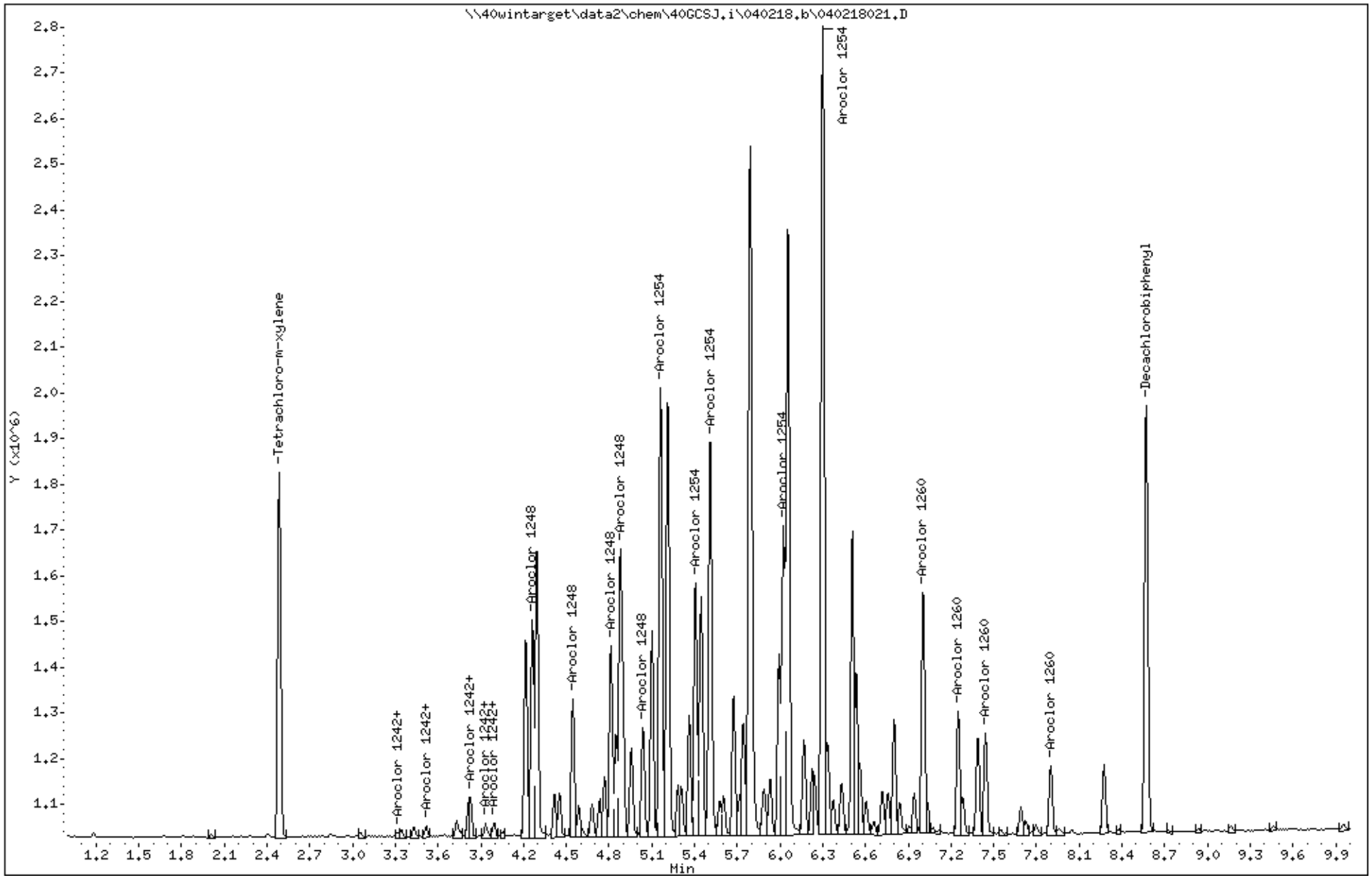
Sample Info: 1666457 x10,

Volume Injected (uL): 1.0

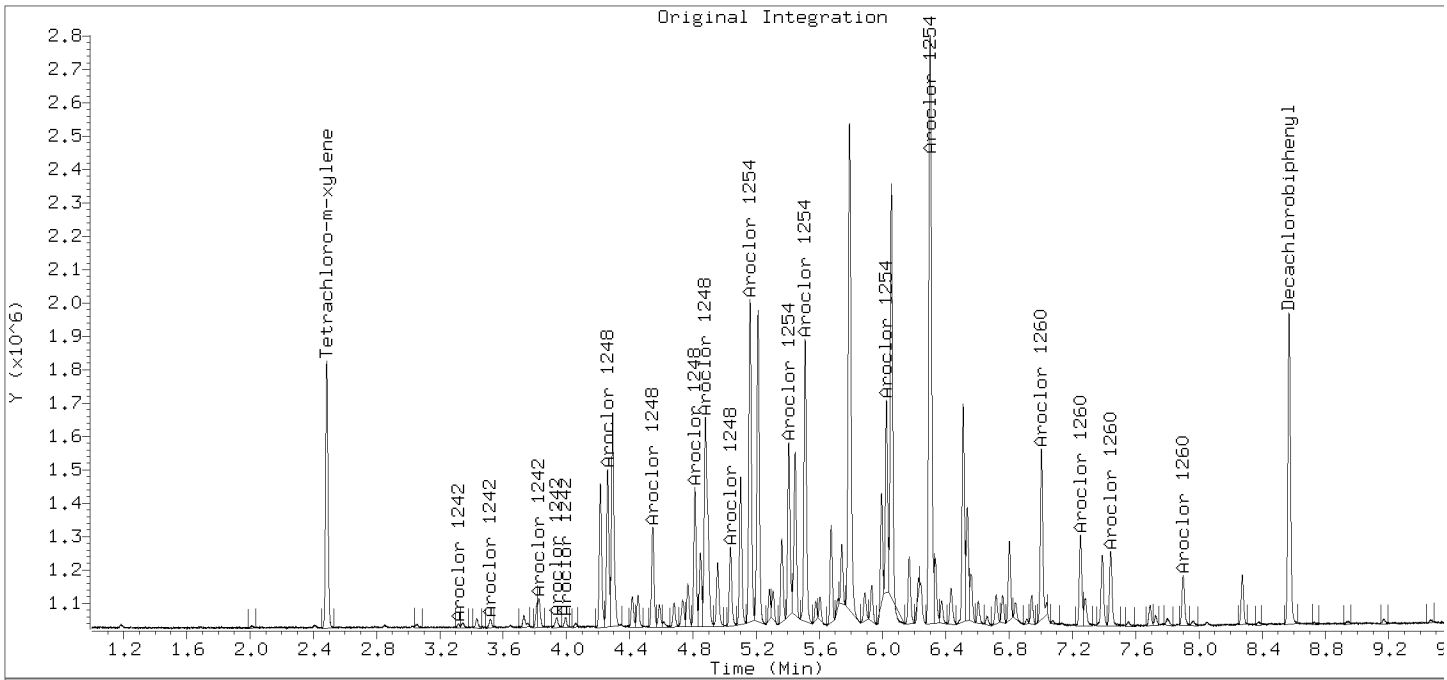
Operator: BLM

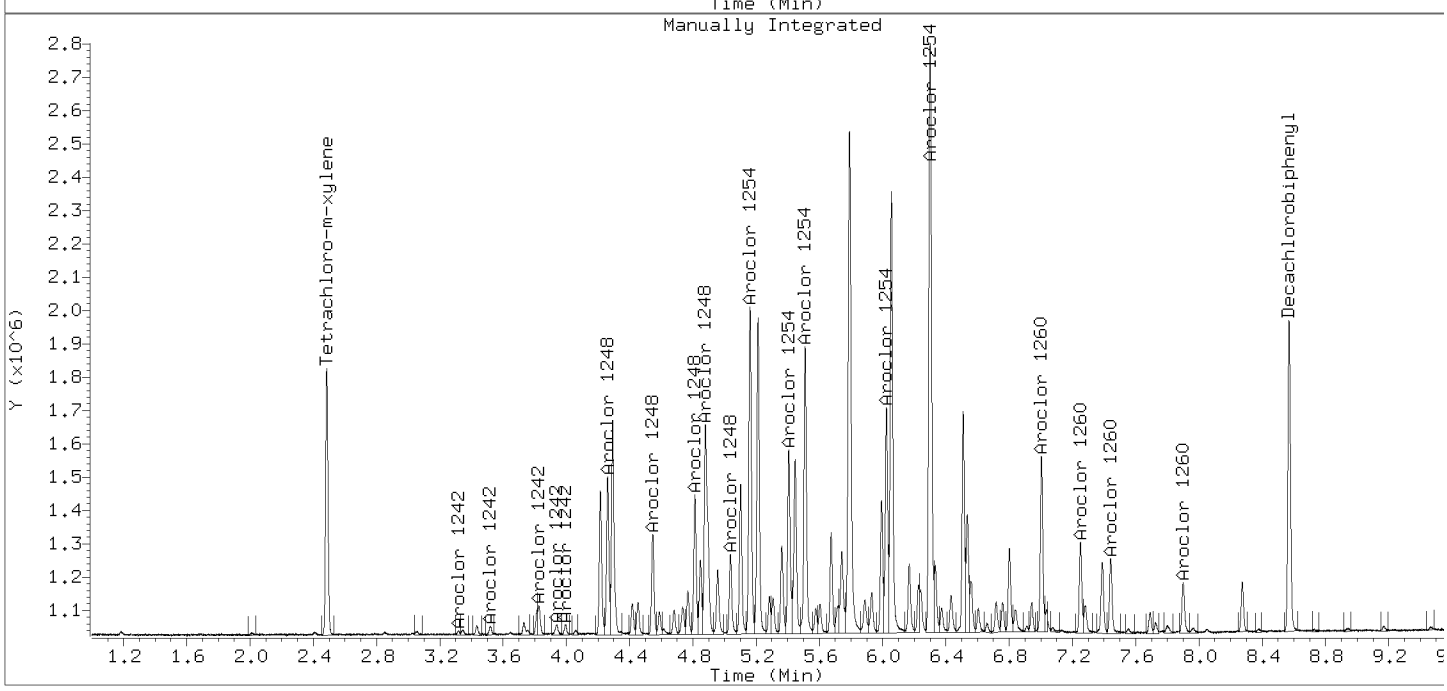
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\040218.b/040218021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 02-APR-2018 19:42 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1666457





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	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1242	0	0	BA
Aroclor 1248	493030	500525	BA
Aroclor 1248	493030	500525	BA
Aroclor 1248	493030	500525	BA
Aroclor 1248	493030	500525	BA
Aroclor 1248	493030	500525	BA
Aroclor 1254	1095577	1143229	BA
Aroclor 1254	1095577	1143229	BA
Aroclor 1254	1095577	1143229	BA
Aroclor 1254	1095577	1143229	BA
Aroclor 1254	1095577	1143229	BA
Aroclor 1260	2208393	0	CO
Aroclor 1260	2208393	0	CO
Aroclor 1260	2208393	0	CO
Aroclor 1260	2208393	0	CO
Aroclor 1260	2208393	0	CO
Tetrachloro-m-xylene	853893	853893	
Decachlorobiphenyl	1081094	1081094	

==========

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.: 40157487

Date Extracted: 04/09/2018 07:13

Lab Sample ID: 1670714

Date Analyzed: 04/10/2018 21:46

Lab File ID: 041018.B\041018036.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSJ Percent Moisture:

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

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018036.D
Lab Smp Id: 1670714 Client Smp ID: MB
Inj Date : 10-APR-2018 21:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1670714,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 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
1.540	9974	8191	0.821	0.04		
1.689	10881	10450	0.960	0.05		
2.485	9386710	8818354	0.939	46.66	$ 2 Tetrachloro-m-xylene	
2.787	19695	15768	0.801	0.09		
4.293	15375	11998	0.780	0.07		
4.415	10609	8345	0.787	0.05		
4.544	19864	15251	0.768	0.09		
4.809	13117	11378	0.867	0.06		
5.036	10902	9201	0.844	0.05		
5.096	12324	8498	0.690	0.06		
5.159	12685	11631	0.917	0.06	7 Aroclor 1254	
5.211	14211	11037	0.777	0.07		
5.405	11750	9878	0.841	0.05	7 Aroclor 1254	
5.509	21430	18662	0.871	0.10	7 Aroclor 1254	
5.788	23356	17282	0.740	0.11		
6.057	10277	8674	0.844	0.05	7 Aroclor 1254	
6.196	9760	9778	1.002	0.04		
6.299	19564	16159	0.826	0.09	7 Aroclor 1254	
7.123	14352	13548	0.944	0.07		
7.689	10211	9079	0.889	0.05		
7.727	48287	41945	0.869	0.24		
7.798	40458	30693	0.759	0.20		
8.051	11418	7225	0.633	0.05		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.275	96829	75355	0.778	0.48	
8.376	19286	12516	0.649	0.09	
8.569	10189829	8595077	0.843	50.79	$ 12 Decachlorobiphenyl
8.938	13433	10279	0.765	0.06	
9.464	16920	10230	0.605	0.08	
9.960	21619	14234	0.658	0.10	
	20115130	17840716		100.000	

Total unknown % area = 2.2

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018036.D
Lab Smp Id: 1670714 Client Smp ID: MB
Inj Date : 10-APR-2018 21:46
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1670714,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 36 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.484	2.484	0.000	9386710	0.07613	38			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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

---

7 Aroclor 1254 CAS #: 11097-69-1

Qualifier signal(s) failed ratio test.

---

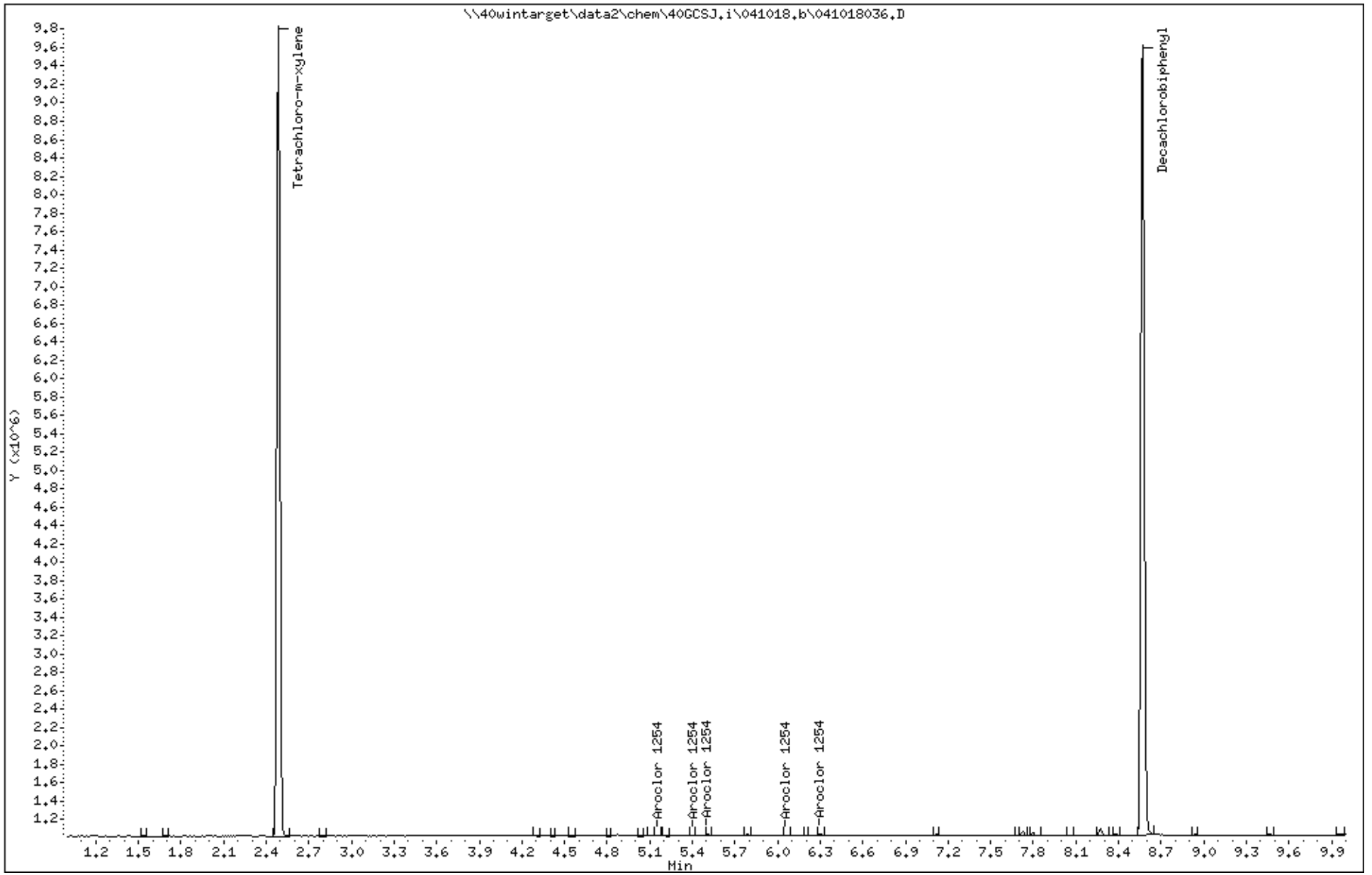
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.569	8.571	-0.002	10189828	0.09301	46			

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018036.D
Date : 10-APR-2018 21:46
Client ID: MB
Instrument: 40GCSJ.i
Sample Info: 1670714,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018036.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 21:46 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1670714

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	9386710	9386710	
Decachlorobiphenyl	10189828	10189828	

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.: 40157487

Date Extracted: 04/09/2018 07:13

Lab Sample ID: 1670715

Date Analyzed: 04/10/2018 22:02

Lab File ID: 041018.B\041018037.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)	220	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018037.D
Lab Smp Id: 1670715 Client Smp ID: MBLCS
Inj Date : 10-APR-2018 22:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1670715,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 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
1.187	11146	9052	0.812	0.02		
1.255	9906	6984	0.705	0.02		
1.807	16608	12646	0.761	0.03		
2.197	44263	23138	0.523	0.10		
2.405	110482	80577	0.729	0.25		
2.484	9324414	8781561	0.942	21.82	$ 2 Tetrachloro-m-xylene	
2.686	161559	127226	0.787	0.37		
2.789	198833	179835	0.904	0.46		
2.850	865207	782788	0.905	2.02		
3.055	110967	98904	0.891	0.25		
3.276	20220	17037	0.843	0.04		
3.317	1105478	1013036	0.916	2.58	3 Aroclor 1242	BA
3.343	638001	583208	0.914	1.49		
3.434	183912	157368	0.856	0.43		
3.513	1094863	787310	0.719	2.56	3 Aroclor 1242	BA
3.641	23868	14982	0.628	0.05		
3.697	34599	32024	0.926	0.08		
3.732	283812	280776	0.989	0.66		
3.755	194012	180051	0.928	0.45		
3.826	3183562	1803633	0.567	7.45	3 Aroclor 1242	BA
3.929	1358330	1101347	0.811	3.17	3 Aroclor 1242	BA
3.994	895587	826736	0.923	2.09	3 Aroclor 1242	BA
4.058	242258	220700	0.911	0.56		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.136	100975	89579	0.887	0.23	
4.215	737623	693622	0.940	1.72	
4.260	700429	652814	0.932	1.63	
4.292	277158	292837	1.057	0.64	
4.310	374363	320539	0.856	0.87	
4.369	28642	18805	0.657	0.06	
4.417	974606	916552	0.940	2.28	
4.451	754945	548825	0.727	1.76	
4.545	1257756	1117825	0.889	2.94	
4.618	291776	260315	0.892	0.68	
4.677	22716	17171	0.756	0.05	
4.727	65248	53410	0.819	0.15	
4.767	70370	65477	0.930	0.16	
4.812	567549	545566	0.961	1.32	
4.847	1011159	947790	0.937	2.36	
4.879	1293910	943365	0.729	3.02	
4.959	145297	108591	0.747	0.34	
5.037	1067927	942332	0.882	2.50	
5.099	222992	166158	0.745	0.52	
5.162	256510	223421	0.871	0.60	
5.212	188250	163372	0.868	0.44	
5.279	19108	16389	0.858	0.04	
5.306	42170	38323	0.909	0.09	
5.362	162457	136306	0.839	0.38	
5.405	269294	221232	0.822	0.63	
5.444	168149	142550	0.848	0.39	
5.508	449504	327588	0.729	1.05	
5.604	141281	110473	0.782	0.33	
5.676	19389	15491	0.799	0.04	
5.717	25750	20038	0.778	0.06	
5.741	34688	29967	0.864	0.08	
5.792	308549	222139	0.720	0.72	
5.887	35451	27169	0.766	0.08	
6.024	273380	194887	0.713	0.63	
6.168	24254	17566	0.724	0.05	
6.298	56956	49858	0.875	0.13	
6.506	10423	10387	0.997	0.02	
6.538	11688	13976	1.196	0.02	
6.717	15147	11323	0.748	0.03	
6.758	9244	7851	0.849	0.02	
6.804	15054	11683	0.776	0.03	
7.008	24217	16285	0.672	0.05	
7.118	14883	12456	0.837	0.03	
7.384	10307	8991	0.872	0.02	
7.687	12279	10170	0.828	0.02	
7.727	48047	42089	0.876	0.11	
7.801	35091	30379	0.866	0.08	
8.274	91356	75948	0.831	0.21	
8.569	9866724	8470556	0.858	23.44	$ 12 Decachlorobiphenyl
	42716927	36501355		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018037.D
Lab Smp Id: 1670715 Client Smp ID: MBLCS
Inj Date : 10-APR-2018 22:02
Operator : BLM Inst ID: 40GCSJ.i
Smp Info : 1670715,
Misc Info : 17645,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSJ.i\041018.b\pcba030618.m
Meth Date : 17-Apr-2018 14:35 40GCSJ.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:39 Cal File: 030618066.D
Als bottle: 37 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.484	2.484	0.000	9324414	0.07563	38			
3 Aroclor 1242					CAS #: 53469-21-9			
3.317	3.318	-0.001	1105478	0.43640	220	0.00- 20.00	100.00(M)	BA
3.512	3.513	-0.001	1094863	0.43446	220	0.00- 20.00	99.04	BA
3.825	3.827	-0.002	3183561	0.44735	220	0.00- 20.00	287.98	BA
3.929	3.929	0.000	1358329	0.44659	220	0.00- 20.00	122.87	BA
3.993	3.995	-0.002	895587	0.43735	220	0.00- 20.00	81.01	BA
Average of Peak Concentrations =					220			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

---

5 Aroclor 1016 CAS #: 12674-11-2

Operator disabled compound identification.

---

6 Aroclor 1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

7 Aroclor 1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.568	8.571	-0.003	9866723	0.09006	45	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b\041018037.D

Date : 10-APR-2018 22:02

Client ID: MBLCS

Instrument: 40GCSJ.i

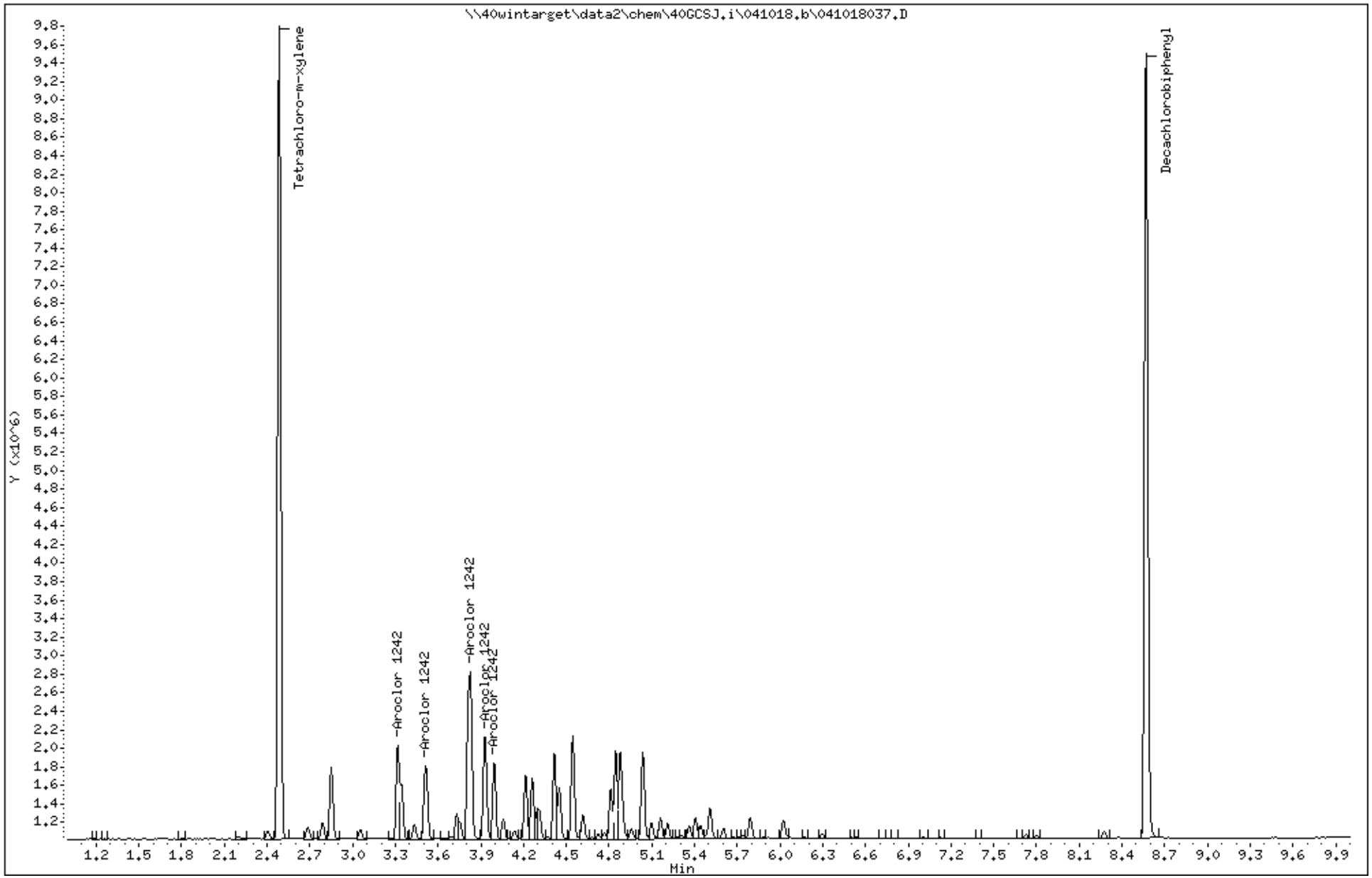
Sample Info: 1670715,

Volume Injected (uL): 1.0

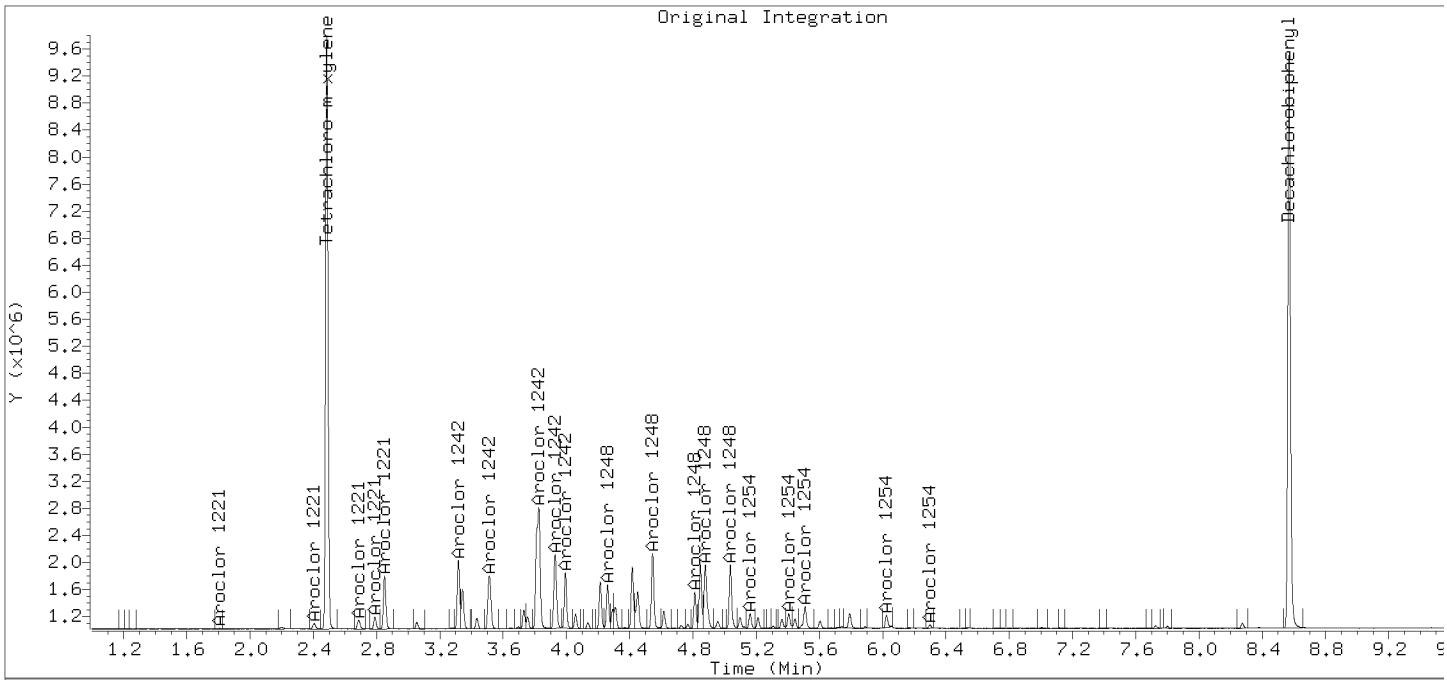
Operator: BLM

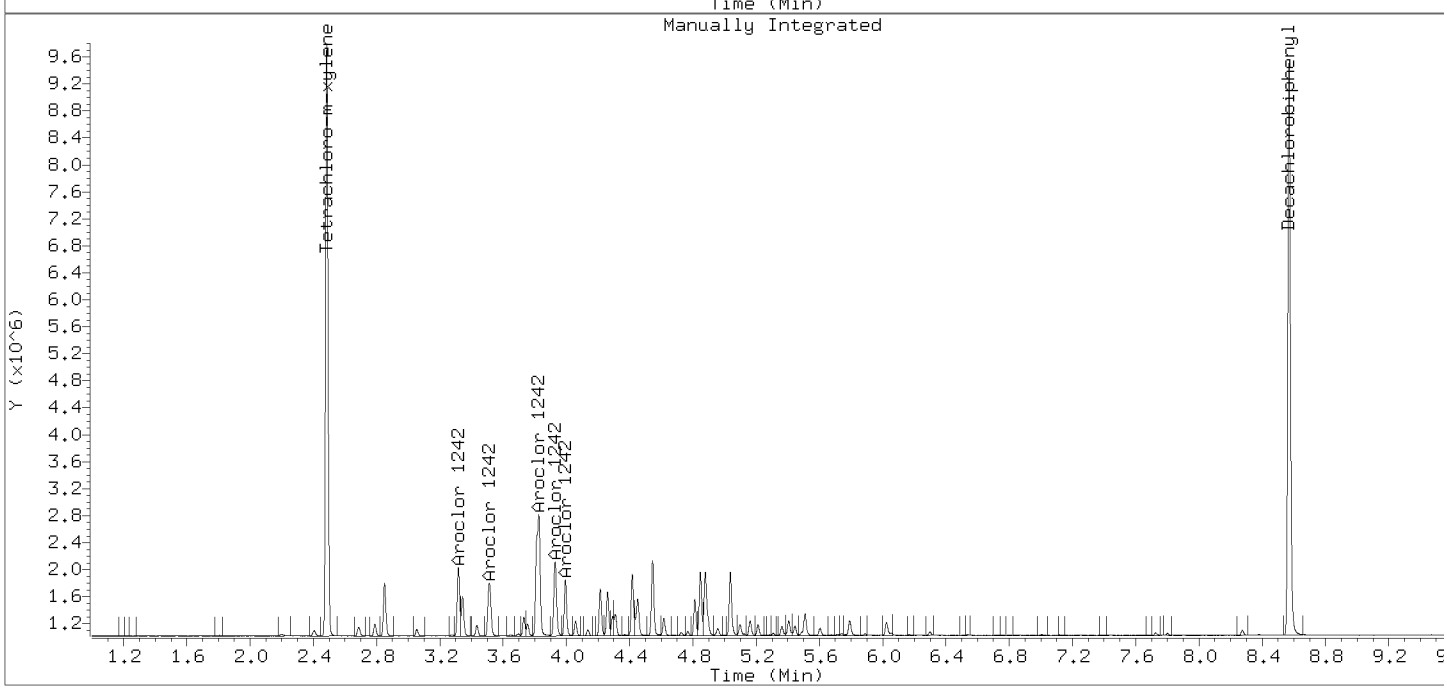
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSJ.i\041018.b/041018037.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-APR-2018 22:02 Operator: BLM
Instrument: 40GCSJ.i
Lab Sample ID: 1670715





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1099252	0	
Aroclor 1016	1099252	0	
Aroclor 1016	1099252	0	
Aroclor 1016	1099252	0	
Aroclor 1016	1099252	0	
Aroclor 1221	16607	0	
Aroclor 1221	16607	0	
Aroclor 1221	16607	0	
Aroclor 1221	16607	0	
Aroclor 1221	16607	0	
Aroclor 1232	857981	0	
Aroclor 1232	857981	0	
Aroclor 1232	857981	0	
Aroclor 1232	857981	0	

Aroclor 1232	857981	0	
Aroclor 1242	1099252	1105478	BA
Aroclor 1242	1099252	1105478	BA
Aroclor 1242	1099252	1105478	BA
Aroclor 1242	1099252	1105478	BA
Aroclor 1242	1099252	1105478	BA
Aroclor 1248	690472	0	
Aroclor 1248	690472	0	
Aroclor 1248	690472	0	
Aroclor 1248	690472	0	
Aroclor 1248	690472	0	
Aroclor 1254	247081	0	
Aroclor 1254	247081	0	
Aroclor 1254	247081	0	
Aroclor 1254	247081	0	
Aroclor 1254	247081	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9324414	9324414	
Decachlorobiphenyl	9866723	9866723	

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Prep Log Report

Batch Information: OEXT 284719 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/30/2018 07:22:14:067
Spiked By	AMC	Spiked By Date/Time	03/30/2018 07:22:14:866	Witnessed By	ETB	Witnessed By Date/Time	03/30/2018 07:22:15:682
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	192488	Hexane	192551	Sodium Sulfate	190953	Florisil	186910
3620B Date/Initials	04/02/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	04/02/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/10/2018 09:32	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	**1666454**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1666455**	10	5	3		189973 (.25)	192096 (.125)
8082A TNYP	PS	**40151614005**	10.0269	5	3		189973 (.25)	
8082A TNYP	PS	**40157487011**	10.0051	5	3		189973 (.25)	
8082A TNYP	PS	**40157487012**	9.9785	5	3		189973 (.25)	
8082A TNYP	PS	**40157487013**	10.0107	5	3		189973 (.25)	
8082A TNYP	PS	**40157487014**	9.9774	5	3		189973 (.25)	
8082A TNYP	PS	**40157487015**	9.9649	5	3		189973 (.25)	
8082A TNYP	PS	**40157487016**	10.0255	5	3		189973 (.25)	
8082A TNYP	RQS	**40157487017**	10.0169	5	3		189973 (.25)	
8082A TNYP	MS	**1666456**	9.9998	5	3		189973 (.25)	192096 (.125)
8082A TNYP	DUP	**1666457**	9.9976	5	3		189973 (.25)	
8082A TNYP	PS	**40157487018**	9.9778	5	3		189973 (.25)	
8082A TNYP	PS	**40157487019**	10.0222	5	3		189973 (.25)	
8082A TNYP	PS	**40157487020**	10.0168	5	3		189973 (.25)	
8082A TNYP	PS	**40157488007**	10.0031	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40157488008**	10.0372	5	3		189973 (.25)	
8082A TNYP	PS	**40157488009**	10.034	5	3		189973 (.25)	
8082A TNYP	PS	**40157488010**	9.9936	5	3		189973 (.25)	
8082A TNYP	PS	**40157489008**	10.0179	5	3		189973 (.25)	
8082A TNYP	PS	**40157489009**	9.98	5	3		189973 (.25)	
8082A TNYP	PS	**40157489010**	10.039	5	3		189973 (.25)	

Standard Notes:

189973: Pest/PCB Surrogate Spike 40GCSC. **192096: Ar1242 Spike @20ug/mL 40GCS9.**

Prep Log Report

Batch Information: OEXT 285467 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	04/09/2018 07:13:41:515
Spiked By	AMC	Spiked By Date/Time	04/09/2018 07:13:44:035	Witnessed By	ETB	Witnessed By Date/Time	04/09/2018 07:13:50:643
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	193046	Hexane	192551	Sodium Sulfate	192814	Florisil	186910
3620B Date/Initials	04/10/18 AMC	H2SO4 - Conc.	179363	Acid 3665A Date/Initials	04/10/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	04/17/2018 14:35	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	**1670714**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1670715**	10	5	3		189973 (.25)	192096 (.125)
8082A TNYP	PS	**40157487001**	10.0248	5	3		189973 (.25)	
8082A TNYP	PS	**40157487002**	9.9771	5	3		189973 (.25)	
8082A TNYP	PS	**40157487003**	9.9838	5	3		189973 (.25)	
8082A TNYP	PS	**40157487004**	10.0118	5	3		189973 (.25)	
8082A TNYP	PS	**40157487005**	10.0301	5	3		189973 (.25)	
8082A TNYP	PS	**40157487006**	9.9981	5	3		189973 (.25)	
8082A TNYP	PS	**40157487007**	10.0132	5	3		189973 (.25)	
8082A TNYP	PS	**40157487008**	9.9774	5	3		189973 (.25)	
8082A TNYP	PS	**40157487009**	10.0287	5	3		189973 (.25)	
8082A TNYP	PS	**40157487010**	10.0176	5	3		189973 (.25)	
8082A TNYP	PS	**40157492001**	10.0003	5	3		189973 (.25)	
8082A TNYP	PS	**40157492002**	10.0071	5	3		189973 (.25)	
8082A TNYP	PS	**40157492003**	10.0221	5	3		189973 (.25)	
8082A TNYP	PS	**40157492004**	9.9887	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40157825011**	10.0369	5	3		189973 (.25)	
8082A TNYP	PS	**40157832001**	9.9883	5	3		189973 (.25)	
8082A TNYP	PS	**40157832002**	9.9987	5	3		189973 (.25)	
8082A TNYP	RQS	**40157832003**	9.9981	5	3		189973 (.25)	
8082A TNYP	MS	**1670716**	9.9831	5	3		189973 (.25)	192096 (.125)
8082A TNYP	DUP	**1670717**	9.9901	5	3		189973 (.25)	
8082A TNYP	PS	**40157832004**	10.0274	5	3		189973 (.25)	
8082A TNYP	PS	**40157832005**	10.0372	5	3		189973 (.25)	

Standard Notes:

189973: Pest/PCB Surrogate Spike 40GCSC. **192096: Ar1242 Spike @20ug/mL 40GCS9.**

```
   Sequence Name: C:\msdchem\1\sequence\040218.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\040218\
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  40166630-024 X100
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  40166659-001 X100
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  40166659-009 X100
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  HEXANE
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40166548-010 OG
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40166548-013 OG
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40166548-010 CU
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40166548-013 CU
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40166548-010 CU
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40166548-013 CU
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  1666454MB
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  1666455LCS
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40151614-005 —
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40157487-011 x5
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40157487-012 —
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40157487-013 x5
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40157487-014 x5
     Datafile          --------

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```

GE BIOTA

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Read and Understood By

Signed: [signature] Date: 4/3/18

Signed: Dawn Haag Date: 4-3-18

```
      Method                SCREEN2014
20)   Sample        20      40157487-015 X10 BLM 4/2/18
      Datafile              --------
      Method                SCREEN2014
21)   RearSamp       21      40157487-016 ~~x3~~ x4
      Datafile              --------
      Method                SCREEN2014
22)   Sample        22      40157487-017P x10
      Datafile              --------
      Method                SCREEN2014
23)   RearSamp       23      1666456MS x10
      Datafile              --------
      Method                SCREEN2014
24)   Sample        24      1666457DUP x10
      Datafile              --------
      Method                SCREEN2014
25)   RearSamp       25      40157487-018 —
      Datafile              --------
      Method                SCREEN2014
26)   Sample        26      40157487-019 x5
      Datafile              --------
      Method                SCREEN2014
27)   RearSamp       27      40157487-020 x10
      Datafile              --------
      Method                SCREEN2014
28)   Sample        28      40157488-007 x5
      Datafile              --------
      Method                SCREEN2014
29)   RearSamp       29      40157488-008 —
      Datafile              --------
      Method                SCREEN2014
30)   Sample        30      40157488-009 x3
      Datafile              --------
      Method                SCREEN2014
31)   RearSamp       31      40157488-010 x3
      Datafile              --------
      Method                SCREEN2014
32)   Sample        32      40157489-008 x3
      Datafile              --------
      Method                SCREEN2014
33)   RearSamp       33      40157489-009 —
      Datafile              --------
      Method                SCREEN2014
34)   Sample        34      40157489-010 —
      Datafile              --------
      Method                SCREEN2014
```

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BLM 4/3/18

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Read and Understood By

Bryan Meyl — Signed — 4/3/18 — Date

Dawn Haag — Signed — 4-3-18 — Date

PROJECT 40GCSI Screener 04/10/18

Notebook No. 4418

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```
   Sequence Name: C:\msdchem\1\sequence\041018.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\041018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile          --------
     Method            SCREEN2014
 2) Sample          2  HEXANE
     Datafile          --------
     Method            SCREEN2014
 3) RearSamp        3  1670714MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1670715LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  40157487-001 x2
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  40157487-002 x2
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40157487-003 x2
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40157487-004 —
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40157487-005 x2
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40157487-006 —
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40157487-007 x2
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40157487-008 x4
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40157487-009 x4
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40157487-010 x2
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40157492-001 x3
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  40157492-002 x2
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40157492-003 —
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40157492-004 x2
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40157825-011 —
     Datafile          --------

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```

GE BIOTA

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Bryan Megill — Signed — 4/11/18 — Date

Fini O'Conn — Signed — 4/11/18 — Date

```
      Method                SCREEN2014
20)   Sample        20      40157832-001 x2
      Datafile              --------
      Method                SCREEN2014
21)   RearSamp      21      40157832-002 —
      Datafile              --------
      Method                SCREEN2014
22)   Sample        22      40157832-003 x2
      Datafile              --------
      Method                SCREEN2014
23)   RearSamp      23      1670716MS    x2
      Datafile              --------
      Method                SCREEN2014
24)   Sample        24      1670717DUP   x2
      Datafile              --------
      Method                SCREEN2014
25)   RearSamp      25      40157832-004 —
      Datafile              --------
      Method                SCREEN2014
26)   Sample        26      40157832-005 —
      Datafile              --------
      Method                SCREEN2014
```

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Read and Understood By

Beg Meyl 4/11/18 Signed Date

Jim O'Connor 4-11-18 Signed 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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```
      Datafile          030618019
      Method            GEBIOTA2017
21) Sample        11    HEXANE
      Datafile          030618020
      Method            GEBIOTA2017
22) RearSamp      13    1242-CAL2B,185543:1,17499,NSA
      Datafile          030618021
      Method            GEBIOTA2017
23) Sample        12    1242-CAL1B,188132:1,17498,NSA
      Datafile          030618022
      Method            GEBIOTA2017
24) RearSamp      14    1242-CAL3B,185544:1,17499,NSA
      Datafile          030618023
      Method            GEBIOTA2017
25) Sample        13    1242-CAL2B,185543:1,17498,NSA
      Datafile          030618024
      Method            GEBIOTA2017
26) RearSamp      15    1242-CAL4B,185545:1,17499,NSA
      Datafile          030618025
      Method            GEBIOTA2017
27) Sample        14    1242-CAL3B,185544:1,17498,NSA
      Datafile          030618026
      Method            GEBIOTA2017
28) RearSamp      16    1242-CAL5B,185546:1,17499,NSA
      Datafile          030618027
      Method            GEBIOTA2017
29) Sample        15    1242-CAL4B,185545:1,17498,NSA
      Datafile          030618028
      Method            GEBIOTA2017
30) RearSamp      17    HEXANE
      Datafile          030618029
      Method            GEBIOTA2017
31) Sample        16    1242-CAL5B,185546:1,17498,NSA
      Datafile          030618030
      Method            GEBIOTA2017
32) RearSamp      18    1248-CAL1D,188134:1,17499,NSA
      Datafile          030618031
      Method            GEBIOTA2017
33) Sample        17    HEXANE
      Datafile          030618032
      Method            GEBIOTA2017
34) RearSamp      19    1248-CAL2D,185548:1,17499,NSA
      Datafile          030618033
      Method            GEBIOTA2017
35) Sample        18    1248-CAL1D,188134:1,17498,NSA
      Datafile          030618034
      Method            GEBIOTA2017
36) RearSamp      20    1248-CAL3D,185549:1,17499,NSA
      Datafile          030618035
      Method            GEBIOTA2017
37) Sample        19    1248-CAL2D,185548:1,17498,NSA
      Datafile          030618036
      Method            GEBIOTA2017
38) RearSamp      21    1248-CAL4D,185550:1,17499,NSA
      Datafile          030618037
      Method            GEBIOTA2017
39) Sample        20    1248-CAL3D,185549:1,17498,NSA
      Datafile          030618038
      Method            GEBIOTA2017
40) RearSamp      22    1248-CAL5D,185551:1,17499,NSA
      Datafile          030618039
      Method            GEBIOTA2017
41) Sample        21    1248-CAL4D,185550:1,17498,NSA
      Datafile          030618040
      Method            GEBIOTA2017
42) RearSamp      23    HEXANE
      Datafile          030618041
      Method            GEBIOTA2017
43) Sample        22    1248-CAL5D,185551:1,17498,NSA
      Datafile          030618042
      Method            GEBIOTA2017

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```

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Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/5/18 Date

Sequence Name: C:\msdchem\1\sequence\030618.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	24	1254-CAL1C,188135:1,17499,NSA		
	Datafile		030618043		
	Method			GEBIOTA2017	
45)	Sample	23	HEXANE		
	Datafile		030618044		
	Method			GEBIOTA2017	
46)	RearSamp	25	1254-CAL2C,185553:1,17499,NSA		
	Datafile		030618045		
	Method			GEBIOTA2017	
47)	Sample	24	1254-CAL1C,188135:1,17498,NSA		
	Datafile		030618046		
	Method			GEBIOTA2017	
48)	RearSamp	26	1254-CAL3C,185554:1,17499,NSA		
	Datafile		030618047		
	Method			GEBIOTA2017	
49)	Sample	25	1254-CAL2C,185553:1,17498,NSA		
	Datafile		030618048		
	Method			GEBIOTA2017	
50)	RearSamp	27	1254-CAL4C,185555:1,17499,NSA		
	Datafile		030618049		
	Method			GEBIOTA2017	
51)	Sample	26	1254-CAL3C,185554:1,17498,NSA		
	Datafile		030618050		
	Method			GEBIOTA2017	
52)	RearSamp	28	1254-CAL5C,185556:1,17499,NSA		
	Datafile		030618051		
	Method			GEBIOTA2017	
53)	Sample	27	1254-CAL4C,185555:1,17498,NSA		
	Datafile		030618052		
	Method			GEBIOTA2017	
54)	RearSamp	29	HEXANE		
	Datafile		030618053		
	Method			GEBIOTA2017	
55)	Sample	28	1254-CAL5C,185556:1,17498,NSA		
	Datafile		030618054		
	Method			GEBIOTA2017	
56)	RearSamp	30	1660-CAL1A,188136:1,17499,AR1		
	Datafile		030618055		
	Method			GEBIOTA2017	
57)	Sample	29	HEXANE		
	Datafile		030618056		
	Method			GEBIOTA2017	
58)	RearSamp	31	1660-CAL2A,185558:1,17499,AR1		
	Datafile		030618057		
	Method			GEBIOTA2017	
59)	Sample	30	1660-CAL1A,188136:1,17498,AR1		
	Datafile		030618058		
	Method			GEBIOTA2017	
60)	RearSamp	32	1660-CAL3A,185559:1,17499,AR1		
	Datafile		030618059		
	Method			GEBIOTA2017	
61)	Sample	31	1660-CAL2A,185558:1,17498,AR1		
	Datafile		030618060		
	Method			GEBIOTA2017	
62)	RearSamp	33	1660-CAL4A,185560:1,17499,AR1		
	Datafile		030618061		
	Method			GEBIOTA2017	
63)	Sample	32	1660-CAL3A,185559:1,17498,AR1		
	Datafile		030618062		
	Method			GEBIOTA2017	
64)	RearSamp	34	1660-CAL5A,185561:1,17499,AR1		
	Datafile		030618063		
	Method			GEBIOTA2017	
65)	Sample	33	1660-CAL4A,185560:1,17498,AR1		
	Datafile		030618064		
	Method			GEBIOTA2017	
66)	RearSamp	35	HEXANE		
	Datafile		030618065		

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Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

Signed — 3/7/18 Date

```
      Method                GEBIOTA2017
67) Sample          34  1660-CAL5A,185561:1,17498,AR1
      Datafile            030618066
      Method              GEBIOTA2017
68) RearSamp        36  1221-ICV,188142:1,17499,AR122
      Datafile            030618067
      Method              GEBIOTA2017
69) Sample          35  HEXANE
      Datafile            030618068
      Method              GEBIOTA2017
70) RearSamp        37  1242-ICV,185562:1,17499,AR124 OK
      Datafile            030618069
      Method              GEBIOTA2017
71) Sample          36  1221-ICV,188142:1,17498,AR122 OK
      Datafile            030618070
      Method              GEBIOTA2017
72) RearSamp        38  1248-ICV,185563:1,17499,AR124 OK
      Datafile            030618071
      Method              GEBIOTA2017
73) Sample          37  1242-ICV,185562:1,17498,AR124 OK
      Datafile            030618072
      Method              GEBIOTA2017
74) RearSamp        39  1254-ICV,185564:1,17499,AR125 OK
      Datafile            030618073
      Method              GEBIOTA2017
75) Sample          38  1248-ICV,185563:1,17498,AR124 OK
      Datafile            030618074
      Method              GEBIOTA2017
76) RearSamp        40  1660-ICV,185565:1,17499,AR166 OK
      Datafile            030618075
      Method              GEBIOTA2017
77) Sample          39  1254-ICV,185564:1,17498,AR125 OK
      Datafile            030618076
      Method              GEBIOTA2017
78) RearSamp        41  1221-CRDL,188138:1,17499,RL12 OK
      Datafile            030618077
      Method              GEBIOTA2017
79) Sample          40  1660-ICV,185565:1,17498,AR166 OK
      Datafile            030618078
      Method              GEBIOTA2017
80) RearSamp        42  1242-CRDL,188132:1,17499,RL12 OK
      Datafile            030618079
      Method              GEBIOTA2017
81) Sample          41  1221-CRDL,188138:1,17498,RL12 OK
      Datafile            030618080
      Method              GEBIOTA2017
82) RearSamp        43  1248-CRDL,188134:1,17499,RL12 OK
      Datafile            030618081
      Method              GEBIOTA2017
83) Sample          42  1242-CRDL,188132:1,17498,RL12 OK
      Datafile            030618082
      Method              GEBIOTA2017
84) RearSamp        44  1254-CRDL,188135:1,17499,RL12 OK
      Datafile            030618083
      Method              GEBIOTA2017
85) Sample          43  1248-CRDL,188134:1,17498,RL12 OK
      Datafile            030618084
      Method              GEBIOTA2017
86) RearSamp        45  1660-CRDL,188136:1,17499,RL16 OK
      Datafile            030618085
      Method              GEBIOTA2017
87) Sample          44  1254-CRDL,188135:1,17498,RL12 OK
      Datafile            030618086
      Method              GEBIOTA2017
88) RearSamp        46  HEXANE
      Datafile            030618087
      Method              GEBIOTA2017
89) Sample          45  1660-CRDL,188136:1,17498,RL16 OK
      Datafile            030618088
      Method              GEBIOTA2017

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Continued on Page —

Read and Understood By

Beryl Meyl — Signed — 3/7/18 — Date

Signed — 3/7/18 — Date

```
     Sequence Name: C:\msdchem\1\sequence\040218.s
           Comment:
          Operator: BLM
         Data Path: C:\MSDCHEM\1\DATA\040218\
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          040218001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          040218002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          040218003
     Method            GEBIOTA2017
 4) Sample          4  1232-CCV,185539:1,17498,AR123 OK
     Datafile          040218004
     Method            GEBIOTA2017
 5) Sample          5  1232-CCV,185539:1,17498,AR123 OK
     Datafile          040218005
     Method            GEBIOTA2017
 6) Sample          6  40157825005 x2,,17602,BIOTA RS
     Datafile          040218006
     Method            GEBIOTA2017
 7) Sample          7  40157825010 x2,,17602,BIOTA RS
     Datafile          040218007
     Method            GEBIOTA2017
 8) Sample          8  1666454,,17607,BIOTA
     Datafile          040218008
     Method            GEBIOTA2017
 9) Sample          9  1666455,,17607,BIOTA
     Datafile          040218009
     Method            GEBIOTA2017
10) Sample         10  40151614005,,17607,BIOTA
     Datafile          040218010
     Method            GEBIOTA2017
11) Sample         11  40157487011 x5,,17607,BIOTA
     Datafile          040218011
     Method            GEBIOTA2017
12) Sample         12  40157487012,,17607,BIOTA
     Datafile          040218012
     Method            GEBIOTA2017
13) Sample         13  40157487013 x5,,17607,BIOTA
     Datafile          040218013
     Method            GEBIOTA2017
14) Sample         14  40157487014 x5,,17607,BIOTA
     Datafile          040218014
     Method            GEBIOTA2017
15) Sample         15  40157487015 x10,,17607,BIOTA
     Datafile          040218015
     Method            GEBIOTA2017
16) Sample         16  1242-CCV,185544:1,17498,AR124 OK
     Datafile          040218016
     Method            GEBIOTA2017
17) Sample         17  1242-CCV,185544:1,17498,AR124 OK
     Datafile          040218017
     Method            GEBIOTA2017
18) Sample         18  40157487016 x4,,17607,BIOTA
     Datafile          040218018
     Method            GEBIOTA2017
19) Sample         19  40157487017 x10,,17607,BIOTA
     Datafile          040218019

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```

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Read and Understood By

Signed: [signature] Date: 4/3/18

Signed: [signature] Date: 4-3-18

```
      Method                GEBIOTA2017
20) Sample          20  1666456 x10,,17607,BIOTA
      Datafile            040218020
      Method              GEBIOTA2017
21) Sample          21  1666457 x10,,17607,BIOTA
      Datafile            040218021
      Method              GEBIOTA2017
22) Sample          22  40157487018,,17607,BIOTA
      Datafile            040218022
      Method              GEBIOTA2017
23) Sample          23  40157487019 x5,,17607,BIOTA
      Datafile            040218023
      Method              GEBIOTA2017
24) Sample          24  40157487020 x10,,17607,BIOTA
      Datafile            040218024
      Method              GEBIOTA2017
25) Sample          25  40157488007 x5,,17607,BIOTA
      Datafile            040218025
      Method              GEBIOTA2017
26) Sample          26  40157488008,,17607,BIOTA
      Datafile            040218026
      Method              GEBIOTA2017
27) Sample          27  40157488009 x3,,17607,BIOTA
      Datafile            040218027
      Method              GEBIOTA2017
28) Sample          28  1248-CCV,185549:1,17498,AR124 ok
      Datafile            040218028
      Method              GEBIOTA2017
29) Sample          29  1248-CCV,185549:1,17498,AR124 ok
      Datafile            040218029
      Method              GEBIOTA2017
30) Sample          30  40157488010 x3,,17607,BIOTA
      Datafile            040218030
      Method              GEBIOTA2017
31) Sample          31  40157489008 x3,,17607,BIOTA
      Datafile            040218031
      Method              GEBIOTA2017
32) Sample          32  40157489009,,17607,BIOTA
      Datafile            040218032
      Method              GEBIOTA2017
33) Sample          33  40157489010,,17607,BIOTA
      Datafile            040218033
      Method              GEBIOTA2017
34) Sample          34  1254-CCV,185554:1,17498,AR125 ok
      Datafile            040218034
      Method              GEBIOTA2017
35) Sample          35  1254-CCV,185554:1,17498,AR125 ok
      Datafile            040218035
      Method              GEBIOTA2017
```

GCJV Batch 17607 HBN: 284860 Screened:
40GCSI 04/02/18

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Read and Understood By

Signed: [signature] Date: 4/3/18

Signed: [signature] Date: 4-3-18

```
    Sequence Name: C:\msdchem\1\sequence\041018.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\041018\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

    Method Sections To Run       Sequence Barcode Options
    (X) Full Method              (X) On Mismatch, Inject Anyway
    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) Sample          1  prime
     Datafile          041018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          041018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          041018003
     Method            GEBIOTA2017
 4) Sample          4  1660-CCV,185559:1,17498,AR166 F
     Datafile          041018004
     Method            GEBIOTA2017
 5) Sample          5  1660-CCV,185559:1,17498,AR166 OK
     Datafile          041018005
     Method            GEBIOTA2017
 6) Sample          6  40157935001 x2,,17636,BIOTA
     Datafile          041018006
     Method            GEBIOTA2017
 7) Sample          7  40157935006 x2,,17636,BIOTA
     Datafile          041018007
     Method            GEBIOTA2017
 8) Sample          8  1669842,,17642,BIOTA
     Datafile          041018008
     Method            GEBIOTA2017
 9) Sample          9  1669843,,17642,BIOTA
     Datafile          041018009
     Method            GEBIOTA2017
10) Sample         10  40157703002,,17642,BIOTA
     Datafile          041018010
     Method            GEBIOTA2017
11) Sample         11  40157703003 x10,,17642,BIOTA
     Datafile          041018011
     Method            GEBIOTA2017
12) Sample         12  40157703004 x3,,17642,BIOTA
     Datafile          041018012
     Method            GEBIOTA2017
13) Sample         13  40157703006,,17642,BIOTA
     Datafile          041018013
     Method            GEBIOTA2017
14) Sample         14  40157703007,,17642,BIOTA
     Datafile          041018014
     Method            GEBIOTA2017
15) Sample         15  40157703008 x2,,17642,BIOTA
     Datafile          041018015
     Method            GEBIOTA2017
16) Sample         16  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041018016
     Method            GEBIOTA2017
17) Sample         17  1221-CCV,185538:1,17498,AR122 OK
     Datafile          041018017
     Method            GEBIOTA2017
18) Sample         18  40157703009 x5,,17642,BIOTA
     Datafile          041018018
     Method            GEBIOTA2017
19) Sample         19  40157703010 x5,,17642,BIOTA
     Datafile          041018019

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Read and Understood By

Signed: [signature] Date: 4/11/18

Signed: [signature] Date: 4-11-18

```
      Method                GEBIOTA2017
20)   Sample        20      40157703011 x2,,17642,BIOTA
      Datafile              041018020
      Method                GEBIOTA2017
21)   Sample        21      40157703012 x3,,17642,BIOTA RS
      Datafile              041018021
      Method                GEBIOTA2017
22)   Sample        22      40157703013 x3,,17642,BIOTA
      Datafile              041018022
      Method                GEBIOTA2017
23)   Sample        23      40157703014 x2,,17642,BIOTA
      Datafile              041018023
      Method                GEBIOTA2017
24)   Sample        24      40157703015 x15,,17642,BIOTA
      Datafile              041018024
      Method                GEBIOTA2017
25)   Sample        25      40157703016 x5,,17642,BIOTA
      Datafile              041018025
      Method                GEBIOTA2017
26)   Sample        26      40157703017,,17642,BIOTA
      Datafile              041018026
      Method                GEBIOTA2017
27)   Sample        27      40157703018 x10,,17642,BIOTA
      Datafile              041018027
      Method                GEBIOTA2017
28)   Sample        28      1232-CCV,185539:1,17498,AR123 ok
      Datafile              041018028
      Method                GEBIOTA2017
29)   Sample        29      1232-CCV,185539:1,17498,AR123 ok
      Datafile              041018029
      Method                GEBIOTA2017
30)   Sample        30      1669844 x10,,17642,BIOTA
      Datafile              041018030
      Method                GEBIOTA2017
31)   Sample        31      1669845 x10,,17642,BIOTA
      Datafile              041018031
      Method                GEBIOTA2017
32)   Sample        32      40157703019 x5,,17642,BIOTA
      Datafile              041018032
      Method                GEBIOTA2017
33)   Sample        33      40157830001 x2,,17642,BIOTA
      Datafile              041018033
      Method                GEBIOTA2017
34)   Sample        34      40157830002,,17642,BIOTA
      Datafile              041018034
      Method                GEBIOTA2017
35)   Sample        35      40157830004 x4,,17642,BIOTA
      Datafile              041018035
      Method                GEBIOTA2017
36)   Sample        36      1670714,,17645,BIOTA
      Datafile              041018036
      Method                GEBIOTA2017
37)   Sample        37      1670715,,17645,BIOTA
      Datafile              041018037
      Method                GEBIOTA2017
38)   Sample        38      40157487001 x2,,17645,BIOTA
      Datafile              041018038
      Method                GEBIOTA2017
39)   Sample        39      40157487002 x2,,17645,BIOTA
      Datafile              041018039
      Method                GEBIOTA2017
40)   Sample        40      1242-CCV,185544:1,17498,AR124 ok
      Datafile              041018040
      Method                GEBIOTA2017
41)   Sample        41      1242-CCV,185544:1,17498,AR124 ok
      Datafile              041018041
      Method                GEBIOTA2017
42)   Sample        42      40157487003 x2,,17645,BIOTA
      Datafile              041018042
      Method                GEBIOTA2017
43)   Sample        43      40157487004,,17645,BIOTA
      Datafile              041018043

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```

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Read and Understood By

Bryan Meyer — Signed — 4/11/18 — Date

Jim O'Conn — Signed — 4-11-18 — Date

Sequence Name: C:\msdchem\1\sequence\041018.s

	Line Type	Vial	DataFile Method Sample Name
44)	Sample	44	40157487005 x2,,17645,BIOTA
	Datafile		041018044
	Method		GEBIOTA2017
45)	Sample	45	40157487006,,17645,BIOTA
	Datafile		041018045
	Method		GEBIOTA2017
46)	Sample	46	40157487007 x2,,17645,BIOTA
	Datafile		041018046
	Method		GEBIOTA2017
47)	Sample	47	40157487008 x4,,17645,BIOTA
	Datafile		041018047
	Method		GEBIOTA2017
48)	Sample	48	40157487009 x4,,17645,BIOTA
	Datafile		041018048
	Method		GEBIOTA2017
49)	Sample	49	40157487010 x2,,17645,BIOTA
	Datafile		041018049
	Method		GEBIOTA2017
50)	Sample	50	40157492001 x3,,17645,BIOTA
	Datafile		041018050
	Method		GEBIOTA2017
51)	Sample	51	40157492002 x2,,17645,BIOTA
	Datafile		041018051
	Method		GEBIOTA2017
52)	Sample	52	1248-CCV,185549:1,17498,AR124 ok
	Datafile		041018052
	Method		GEBIOTA2017
53)	Sample	53	1248-CCV,185549:1,17498,AR124 ok
	Datafile		041018053
	Method		GEBIOTA2017
54)	Sample	54	40157492003,,17645,BIOTA
	Datafile		041018054
	Method		GEBIOTA2017
55)	Sample	55	40157492004 x2,,17645,BIOTA
	Datafile		041018055
	Method		GEBIOTA2017
56)	Sample	56	40157825011,,17645,BIOTA
	Datafile		041018056
	Method		GEBIOTA2017
57)	Sample	57	40157832001 x2,,17645,BIOTA
	Datafile		041018057
	Method		GEBIOTA2017
58)	Sample	58	40157832002,,17645,BIOTA
	Datafile		041018058
	Method		GEBIOTA2017
59)	Sample	59	40157832003 x2,,17645,BIOTA
	Datafile		041018059
	Method		GEBIOTA2017
60)	Sample	60	1670716 x2,,17645,BIOTA
	Datafile		041018060
	Method		GEBIOTA2017
61)	Sample	61	1670717 x2,,17645,BIOTA
	Datafile		041018061
	Method		GEBIOTA2017
62)	Sample	62	40157832004,,17645,BIOTA
	Datafile		041018062
	Method		GEBIOTA2017
63)	Sample	63	40157832005,,17645,BIOTA
	Datafile		041018063
	Method		GEBIOTA2017
64)	Sample	64	1254-CCV,185554:1,17498,AR125 ok
	Datafile		041018064
	Method		GEBIOTA2017
65)	Sample	65	1254-CCV,185554:1,17498,AR125 ok
	Datafile		041018065
	Method		GEBIOTA2017

GCSV Batch 17642 HBN: 285493 Screened: 40GCSI 04/09/18

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BLM 4/11/18

GCSV Batch 17645 HBN: 285591 Screened: 40GCSI 4/10/18

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Read and Understood By

Signed 4/11/18 Date

Signed 4-11-18 Date

Standard Log Report

Standards Log Information for Standard #193046

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/03/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #193046

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #193046

Composed of Standard Seq	Volume	Units
192551	2000	mL
190941	2000	mL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #192814

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/02/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	10/02/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/2/18

Compound Name and Concentration for Standard #192814

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #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 #192488

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/28/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/28/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #192488

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #192488

Composed of Standard Seq	Volume	Units
189481	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #192096

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	03/22/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/22/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	AR1242-SPK

Notes:

Ar1242 Spike @20ug/mL 40GCS9.i\032318spk.b\A323018 100% Recovery

Compound Name and Concentration for Standard #192096

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	PCB-1242 (Aroclor 1242)	20 ug/mL

Composed of Information for Standard #192096

Composed of Standard Seq	Volume	Units
179368	196	mL
81343	1	mL
81342	1	mL
81341	1	mL
81340	1	mL

Standard Log Report

Standards Log Information for Standard #190953

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	03/08/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #190953

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #190941

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	03/08/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190941

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #189973

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	1000 mL	**Lot ID:**	GCSV
Create Date:	02/26/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	08/26/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	8081-SS

Notes:

Pest/PCB Surrogate Spike 40GCSC.i\022618SurrVal.b\A226037 TCMX-116.01% DCB-98.69%

Compound Name and Concentration for Standard #189973

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Decachlorobiphenyl (S)	2 ug/mL
Tetrachloro-m-xylene (S)	2 ug/mL		

Composed of Information for Standard #189973

Composed of Standard Seq	Volume	Units
179366	999	mL
172034	1	mL

Standard Log Report

Standards Log Information for Standard #189481

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	02/19/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #189481

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #188917

STOCK STANDARD

Created By:	ETB	**Volume of Standard:**	215 L	**Lot ID:**	405750
Create Date:	02/12/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	01/15/2019	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed ETB 02/12/18

Compound Name and Concentration for Standard #188917

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #188142

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-ICV

Notes:

1221 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #188142

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #188142

Composed of Standard Seq	Volume	Units
188137	500	uL
188129	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #188141

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL5

Notes:

1221 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #188141

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	1 ug/mL	PCB-1221 (Aroclor 1221)-1	1 ug/mL
PCB-1221 (Aroclor 1221)-2	1 ug/mL	PCB-1221 (Aroclor 1221)-3	1 ug/mL
PCB-1221 (Aroclor 1221)-4	1 ug/mL	PCB-1232 (Aroclor 1232)-5	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #188141

Composed of Standard Seq	Volume	Units
188129	1500	uL
185526	1000	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #188140

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL4

Notes:

1221 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #188140

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.8 ug/mL	PCB-1221 (Aroclor 1221)-1	.8 ug/mL
PCB-1221 (Aroclor 1221)-2	.8 ug/mL	PCB-1221 (Aroclor 1221)-3	.8 ug/mL
PCB-1221 (Aroclor 1221)-4	.8 ug/mL	PCB-1232 (Aroclor 1232)-5	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #188140

Composed of Standard Seq	Volume	Units
188129	1000	uL
185526	800	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #188139

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL2

Notes:

1221 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #188139

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.2 ug/mL	PCB-1221 (Aroclor 1221)-1	.2 ug/mL
PCB-1221 (Aroclor 1221)-2	.2 ug/mL	PCB-1221 (Aroclor 1221)-3	.2 ug/mL
PCB-1221 (Aroclor 1221)-4	.2 ug/mL	PCB-1232 (Aroclor 1232)-5	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #188139

Composed of Standard Seq	Volume	Units
188129	200	uL
185526	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #188138

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL1

Notes:

NY 1221 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188138

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.1 ug/mL	PCB-1221 (Aroclor 1221)-1	.1 ug/mL
PCB-1221 (Aroclor 1221)-2	.1 ug/mL	PCB-1221 (Aroclor 1221)-3	.1 ug/mL
PCB-1221 (Aroclor 1221)-4	.1 ug/mL	PCB-1232 (Aroclor 1232)-5	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188138

Composed of Standard Seq	Volume	Units
188129	100	uL
185526	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188137

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #188137

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL

Composed of Information for Standard #188137

Composed of Standard Seq	Volume	Units
184640	9	mL
179816	1000	uL

Standard Log Report

Standards Log Information for Standard #188136

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL1

Notes:

NY 1660 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188136

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.1 ug/mL	PCB-1260 (Aroclor 1260)	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188136

Composed of Standard Seq	Volume	Units
188129	100	uL
185533	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL1

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188135

Composed of Standard Seq	Volume	Units
188129	100	uL
185530	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL1

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188134

Composed of Standard Seq	Volume	Units
188129	100	uL
185529	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL1

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.1 ug/mL	PCB-1242 (Aroclor 1242)	.1 ug/mL
PCB-1242 (Aroclor 1242)-6	.1 ug/mL	PCB-1242 (Aroclor 1242)-7	.1 ug/mL
PCB-1242 (Aroclor 1242)-8	.1 ug/mL	PCB-1242 (Aroclor 1242)-9	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188132

Composed of Standard Seq	Volume	Units
188129	100	uL
185528	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #188129

Composed of Standard Seq	Volume	Units
185958	1	mL
184640	19	mL

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405706
Create Date:	01/12/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	01/11/2020	**Manufacturer Lot ID:**	174228	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

Created By:	BLM	**Volume of Standard:**	1 mL	**Lot ID:**	405693
Create Date:	01/02/2018	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	11/30/2023	**Manufacturer Lot ID:**	A0130424	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-ICV

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185565

Composed of Standard Seq	Volume	Units
185537	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-ICV

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185564

Composed of Standard Seq	Volume	Units
185536	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-ICV

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185563

Composed of Standard Seq	Volume	Units
185535	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-ICV

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185562

Composed of Standard Seq	Volume	Units
185534	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL5

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	1 ug/mL	PCB-1260 (Aroclor 1260)	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185561

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL4

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.8 ug/mL	PCB-1260 (Aroclor 1260)	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185560

Composed of Standard Seq	Volume	Units
185533	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL3

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185554

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL2

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185553

Composed of Standard Seq	Volume	Units
185530	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL5

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185551

Composed of Standard Seq	Volume	Units
185529	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL4

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185550

Composed of Standard Seq	Volume	Units
185529	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL3

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185549

Composed of Standard Seq	Volume	Units
185529	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL2

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185548

Composed of Standard Seq	Volume	Units
185529	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL5

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	1 ug/mL	PCB-1242 (Aroclor 1242)	1 ug/mL
PCB-1242 (Aroclor 1242)-6	1 ug/mL	PCB-1242 (Aroclor 1242)-7	1 ug/mL
PCB-1242 (Aroclor 1242)-8	1 ug/mL	PCB-1242 (Aroclor 1242)-9	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185546

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL4

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.8 ug/mL	PCB-1242 (Aroclor 1242)	.8 ug/mL
PCB-1242 (Aroclor 1242)-6	.8 ug/mL	PCB-1242 (Aroclor 1242)-7	.8 ug/mL
PCB-1242 (Aroclor 1242)-8	.8 ug/mL	PCB-1242 (Aroclor 1242)-9	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185545

Composed of Standard Seq	Volume	Units
185528	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL3

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	PCB-1242 (Aroclor 1242)	.5 ug/mL
PCB-1242 (Aroclor 1242)-6	.5 ug/mL	PCB-1242 (Aroclor 1242)-7	.5 ug/mL
PCB-1242 (Aroclor 1242)-8	.5 ug/mL	PCB-1242 (Aroclor 1242)-9	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185544

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL2

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.2 ug/mL	PCB-1242 (Aroclor 1242)	.2 ug/mL
PCB-1242 (Aroclor 1242)-6	.2 ug/mL	PCB-1242 (Aroclor 1242)-7	.2 ug/mL
PCB-1242 (Aroclor 1242)-8	.2 ug/mL	PCB-1242 (Aroclor 1242)-9	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185543

Composed of Standard Seq	Volume	Units
185528	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-CAL3

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1232 (Aroclor 1232)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185539

Composed of Standard Seq	Volume	Units
185527	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL3

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	PCB-1221 (Aroclor 1221)-1	.5 ug/mL
PCB-1221 (Aroclor 1221)-2	.5 ug/mL	PCB-1221 (Aroclor 1221)-3	.5 ug/mL
PCB-1221 (Aroclor 1221)-4	.5 ug/mL	PCB-1232 (Aroclor 1232)-5	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185538

Composed of Standard Seq	Volume	Units
185526	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185537

Composed of Standard Seq	Volume	Units
184640	9	mL
175600	1	mL

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185530

Composed of Standard Seq	Volume	Units
184640	9	mL
173182	1000	uL

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185529

Composed of Standard Seq	Volume	Units
184640	9	mL
173180	1000	uL

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL
PCB-1242 (Aroclor 1242)	100 ug/mL	PCB-1242 (Aroclor 1242)-6	100 ug/mL
PCB-1242 (Aroclor 1242)-7	100 ug/mL	PCB-1242 (Aroclor 1242)-8	100 ug/mL
PCB-1242 (Aroclor 1242)-9	100 ug/mL		

Composed of Information for Standard #185528

Composed of Standard Seq	Volume	Units
184640	9	mL
173178	1000	uL

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		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #179368

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179368

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #179366

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179366

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #178398

INDIVIDUAL STANDARD

Created By:	DMH	**Volume of Standard:**	1 mL	**Lot ID:**	405520
Create Date:	09/18/2017	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0125833	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405431
Create Date:	08/09/2017	**Manufacturer:**	O2SI	**Part ID:**	130011-03
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	311587	**Standard ID:**	1660-STK

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405386
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030277-06
Expire Date:	03/21/2020	**Manufacturer Lot ID:**	302980	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405385
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030276-15
Expire Date:	01/14/2020	**Manufacturer Lot ID:**	296389	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405384
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030275-03
Expire Date:	03/20/2027	**Manufacturer Lot ID:**	302979	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405375
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32039
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124547	**Standard ID:**	1660-STK

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405372
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32011
Expire Date:	05/31/2023	**Manufacturer Lot ID:**	A0125350	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405371
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32010
Expire Date:	12/31/2022	**Manufacturer Lot ID:**	A0121842	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405370
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32009
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124535	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL	PCB-1242 (Aroclor 1242)	1000 ug/mL
PCB-1242 (Aroclor 1242)-6	1000 ug/mL	PCB-1242 (Aroclor 1242)-7	1000 ug/mL
PCB-1242 (Aroclor 1242)-8	1000 ug/mL	PCB-1242 (Aroclor 1242)-9	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405369
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32008
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124534	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

Compound Name	Concentration	Compound Name	Concentration
PCB-1232 (Aroclor 1232)	1000 ug/mL		

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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Certificate of Analysis

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	226760	Ambient or Less	Hexane	15-Apr-2024	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.3P	1003 +/- 10.66	mg/L

403271
REC.04/22/14 BY CA
Exp. __/__/__ By -
Open __/__/__ By

Certified By: Amanda Ross

Amanda Ross

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

405341
REC. 06/23/17 BY MRN
Exp. --/--/-- By --

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130023-15	311236	≤ 6 °C	Tol.:Hex. 1:1	8-Jun-2019	Pesticide Surrogate Solution, 2,000 mg/L, 10 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
decachlorobiphenyl (BZ# 209)	2051-24-3	99.1	301.115.5P	2022 +/- 4.56	mg/L
2,4,5,6-tetrachloro-m-xylene	877-09-8	98.6	300.115.3P	1996 +/- 14.54	mg/L

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 2781200)		+/- 31.9602	µg/mL	Unstressed
	Purity ----%			+/- 41.7506	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

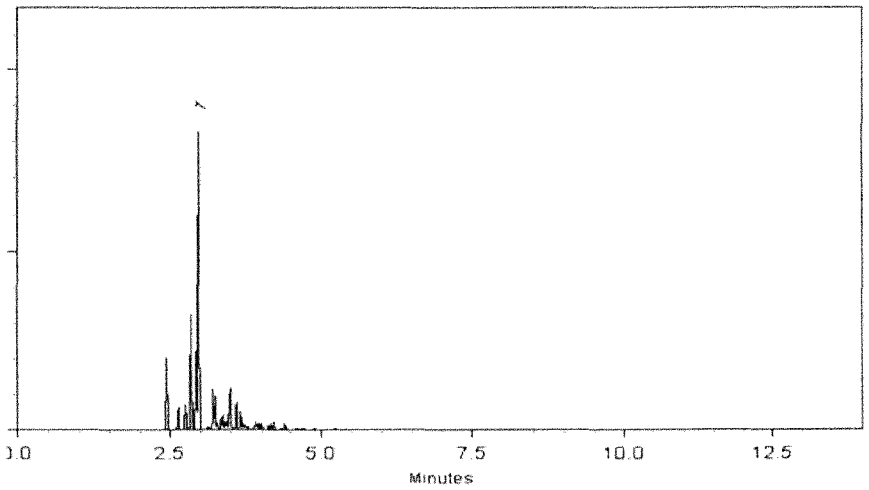
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

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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)

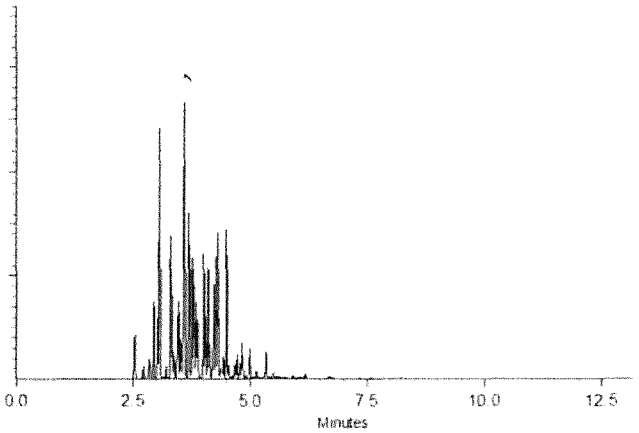
Carrier Gas:
helium-constant pressure 20 psi.

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

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32009 **Lot No.:** A0124535

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1242	1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 53469-21-9 (Lot 01141-A)		+/- 31.7706 µg/mL	Unstressed
	Purity ----%		+/- 41.4958 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405370
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

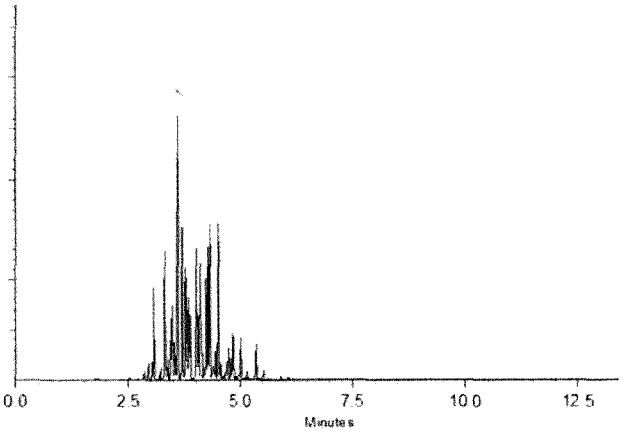
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 **Lot No.:** A0121842

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	996.8 µg/mL	+/- 5.8498 µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 07)		+/- 31.5925 µg/mL	Unstressed
	Purity ----%		+/- 41.2704 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405371
REC. 07/06/17 BY BDS
Exp. __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

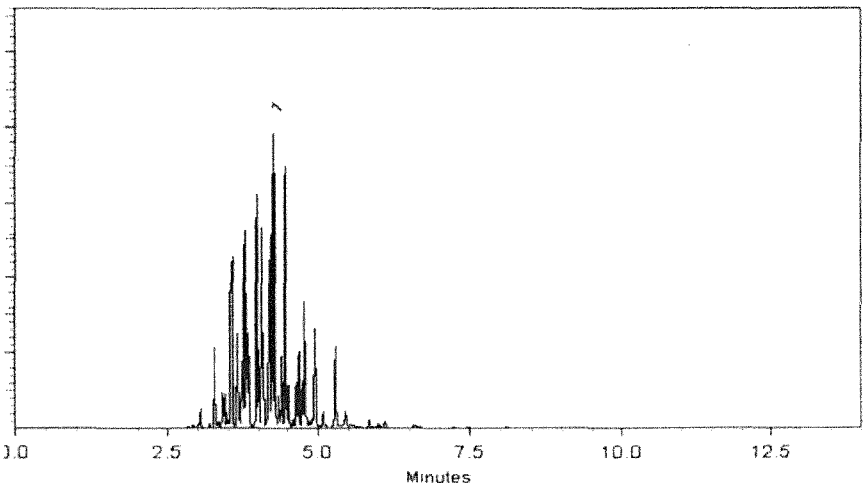
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician

Date Mixed: 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254		1,005.6 µg/mL	+/- 5.9014	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8715	µg/mL	Unstressed
	Purity ----%			+/- 41.6347	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

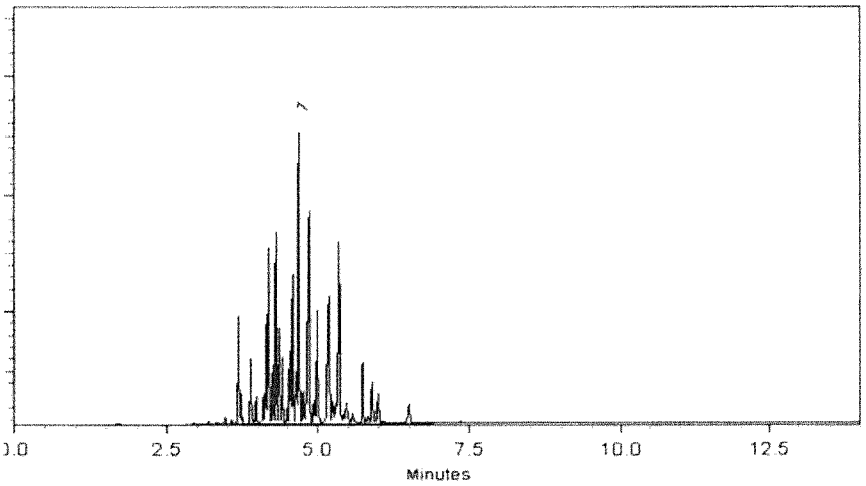
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,002.0 µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot W-125-04)		+/- 31.7498	µg/mL	Unstressed
	Purity ----%			+/- 41.4799	µg/mL	Stressed
2	Aroclor 1260		1,002.2 µg/mL	+/- 5.8403	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot W-129-06)		+/- 31.7561	µg/mL	Unstressed
	Purity ----%			+/- 41.4881	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

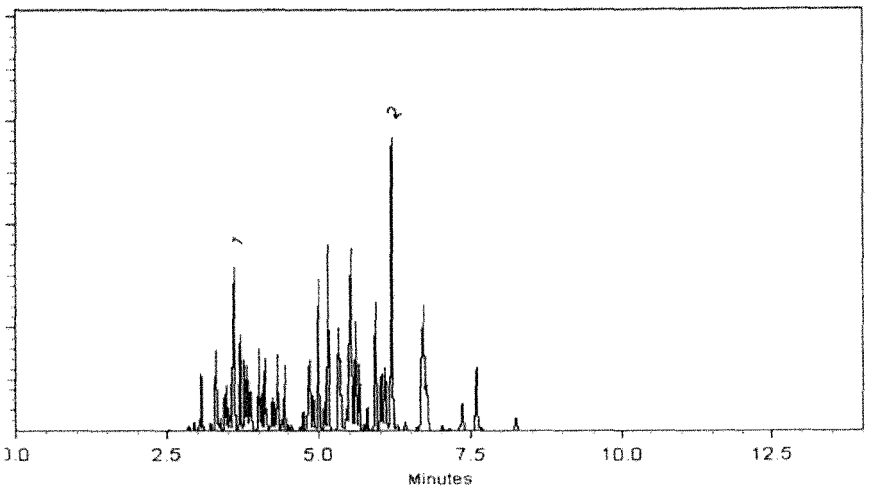
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis

Cathleen Soltis - Mix Technician

Date Mixed: 30-Jan-2017 **Balance:** B442140311

Jennifer J Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	302979	Ambient or Less	Hexane	20-Mar-2027	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1010 +/- 7.38	mg/L

405384
REC.07/13/17 BY BDS
Exp. __/__/__ By --
Open / / By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030276-15	296389	≤ Ambient	Hexane	14-Jan-2020	Aroclor 1248 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1248	12672-29-6	100	276.3.1P	1008 +/- 4.47	mg/L

405385
REC. 07/13/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Katrina Emelianoff

Manufacture Date 9-Jan-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030277-06	302980	≤ Ambient	Hexane	21-Mar-2020	Aroclor 1254 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1254	11097-69-1	100	277.6.4P	1004 +/- 4.32	mg/L

405386
REC. 07/13/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Date Received: _____

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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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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0125833

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

dmh 9-18-17

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	2,4,5,6-Tetrachloro-m-xylene		201.5	µg/mL	+/-	1.1742	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)			+/-	6.3844	µg/mL	Unstressed
	Purity 98%				+/-	8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.9	µg/mL	+/-	1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)			+/-	6.3975	µg/mL	Unstressed
	Purity 99%				+/-	8.3581	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

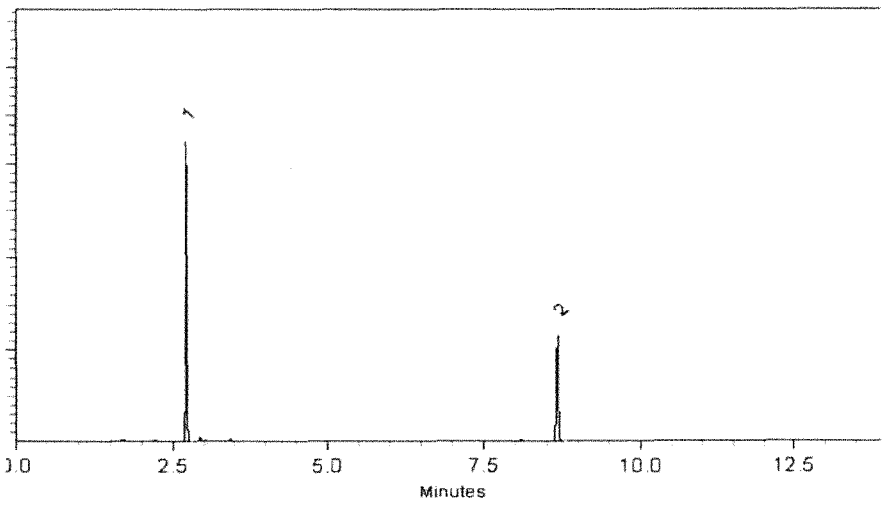
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Mar-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

405532
REC. 09/29/17 BY MRN
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Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

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Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.31	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.97	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0481	AU
UV Absorbance @ 350 nm		0.010	0.0014	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

2030 Savage Road
Charleston, South Carolina 29407
Phone: 866.272.0932
Fax: 866.509.5146
www.o2si.com

o2si smart solutions®

Quality System Audited & Registered by NSF-ISR to ISO 9001:2008

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030273-11	316120	≤ Ambient	Hexane	1-Sep-2021	Aroclor 1221 Solution, 1,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1221	11104-28-2	100	273.3.2P	1018 +/- 3.01	mg/L

Certified By: _____
Kara Catron

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Sodium Sulfate, Anhydrous, Granular (12-60 Mesh)
ULTRA RESI-ANALYZED®, ACS Reagent
Tested for Hexane Extractable Impurities
Suitable for Use in Pesticide Residue Analysis

405550
REC. 10/16/17 BY MRN
Exp. --/--/-- By --
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

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Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

RESTEK® CERTIFIED REFERENCE MATERIAL

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Bellefonte, PA 16823-8812
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Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0130424

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

405693
REC.01/02/18 BY BLM
Exp: --/--/-- By --
Open / / By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.2 µg/mL	+/- 1.1725	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3751	µg/mL	Unstressed
	Purity 98%			+/- 8.3288	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3848	µg/mL	Unstressed
	Purity 99%			+/- 8.3415	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

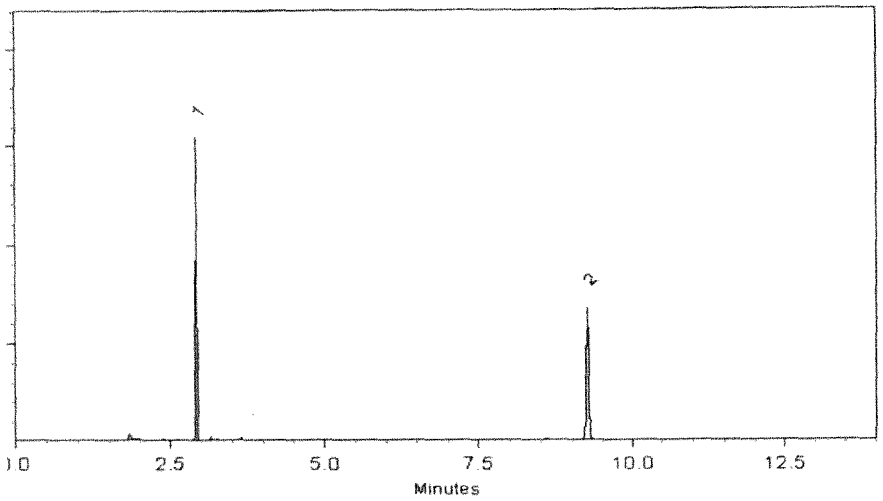
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 31-Aug-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Sep-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

405750
REC. 02/12/18 BY ETB
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000187681
Manufactured Date: 2017/10/16
Expiration Date: 2019/01/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	5
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.9
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

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3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

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Fax: 866.509.5146
www.o2si.com

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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

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Avantor Performance Materials, LLC.
3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

SAMPLE NO.

SW3-170614-01-YP-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.5		%	1	04/10/2018 06:28

SAMPLE NO.

SW3-170614-01-YP-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.5		%	1	04/10/2018 06:28

SAMPLE NO.

SW3-170614-01-YP-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	04/10/2018 06:28

SAMPLE NO.

SW3-170614-01-YP-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.61		%	1	04/10/2018 06:28

SAMPLE NO.

SW3-170614-01-YP-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	04/10/2018 06:28

SAMPLE NO.

SW3-170614-01-YP-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	04/10/2018 06:28

SAMPLE NO.

SW3-170614-01-YP-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	04/10/2018 06:28

SAMPLE NO.

SW3-170614-01-YP-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.3		%	1	04/10/2018 06:28

SAMPLE NO.

SW3-170614-01-YP-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.39		%	1	04/10/2018 06:28

SAMPLE NO.

SW3-170614-01-YP-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.0		%	1	04/10/2018 06:28

SAMPLE NO.

SW3-170614-01-LMB-10

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.23		%	1	04/02/2018 06:18

SAMPLE NO.

SW3-170614-01-LMB-09

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.27		%	1	04/02/2018 06:18

SAMPLE NO.

SW3-170614-01-LMB-08

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.17		%	1	04/02/2018 06:18

SAMPLE NO.

SW3-170614-01-LMB-07

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.47		%	1	04/02/2018 06:18

SAMPLE NO.

SW3-170614-01-LMB-06

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.2		%	1	04/02/2018 06:18

SAMPLE NO.

SW3-170614-01-LMB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.27		%	1	04/02/2018 06:18

SAMPLE NO.

SW3-170614-01-LMB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487017 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.28		%	1	04/02/2018 06:18

SAMPLE NO.

SW3-170614-01-LMB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487018 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.22		%	1	04/02/2018 06:18

SAMPLE NO.

SW3-170614-01-LMB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487019 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.26		%	1	04/02/2018 06:18

SAMPLE NO.

SW3-170614-01-LMB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40157487020 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.60		%	1	04/02/2018 06:18

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 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	1667515	C
Lipid									<0.030	U

FORM III INORGANIC-1
BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 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	1671073	C
Lipid									<0.030	U

SAMPLE NO.

1667518DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.28	0.23	22

SAMPLE NO.

1671076DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40157487 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	0.71	0.86	19

Prep Log Report

Batch Information: OEXT 284832 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:42				

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	**1667515**	Y	-0.005000	04/02/2018 06:18:18		10	5	1	0.9252	0.9251	M	1666454
LIPID	BLANK	**1667516**	Y	0.005000	04/02/2018 06:18:18		10	5	1	0.9292	0.9293	M	1666455
LIPID	PS	**40151614005**	Y	0.2493	04/02/2018 06:18:18		10.0269	5	1	0.9255	0.9305	M	
LIPID	PS	**40157487011**	Y	0.2349	04/02/2018 06:18:18		10.0051	5	1	0.9287	0.9334	M	
LIPID	PS	**40157487012**	Y	0.2706	04/02/2018 06:18:18		9.9785	5	1	0.9284	0.9338	M	
LIPID	PS	**40157487013**	Y	0.1698	04/02/2018 06:18:18		10.0107	5	1	0.9254	0.9288	M	
LIPID	PS	**40157487014**	Y	0.4661	04/02/2018 06:18:18		9.9774	5	1	0.9248	0.9341	M	
LIPID	PS	**40157487015**	Y	1.179	04/02/2018 06:18:18		9.9649	5	1	0.9271	0.9506	M	
LIPID	PS	**40157487016**	Y	0.2693	04/02/2018 06:18:18		10.0255	5	1	0.9268	0.9322	M	
LIPID	RQS	**40157487017**	Y	0.2795	04/02/2018 06:18:18		10.0169	5	1	0.9249	0.9305	M	
LIPID	DUP	**1667518**	Y	0.2251	04/02/2018 06:18:18		9.9976	5	1	0.9207	0.9252	M	1666457
LIPID	PS	**40157487018**	Y	0.2155	04/02/2018 06:18:18		9.9778	5	1	0.9252	0.9295	M	
LIPID	PS	**40157487019**	Y	0.2594	04/02/2018 06:18:18		10.0222	5	1	0.9262	0.9314	M	
LIPID	PS	**40157487020**	Y	0.6040	04/02/2018 06:18:18		10.0168	5	1	0.9291	0.9412	M	
LIPID	PS	**40157488007**	Y	0.4998	04/02/2018 06:18:18		10.0031	5	1	0.9248	0.9348	M	
LIPID	PS	**40157488008**	Y	0.2491	04/02/2018 06:18:18		10.0372	5	1	0.9244	0.9294	M	
LIPID	PS	**40157488009**	Y	0.4136	04/02/2018 06:18:18		10.034	5	1	0.9261	0.9344	M	
LIPID	PS	**40157488010**	Y	0.6304	04/02/2018 06:18:18		9.9936	5	1	0.9254	0.938	M	
LIPID	PS	**40157489008**	Y	0.3294	04/02/2018 06:18:18		10.0179	5	1	0.9251	0.9317	M	

Prep Log Report

40157487

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	**40157489009**	Y	0.3106	04/02/2018 06:18:18		9.98	5	1	0.9271	0.9333	M	
LIPID	PS	**40157489010**	Y	0.2889	04/02/2018 06:18:18		10.039	5	1	0.9296	0.9354	M	
LIPID	MS	**1682573**	Y	0.2550	04/02/2018 06:18:18		9.9998	5	1	.9262	0.9313	M	

Prep Log Report

Batch Information: OEXT 285570 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/02/2018 14:40				

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	**1671073**	Y	-0.005000	04/10/2018 06:28:37		10	5	1	0.9267	0.9266	M	1670714
LIPID	BLANK	**1671074**	Y	0.005000	04/10/2018 06:28:37		10	5	1	0.9295	0.9296	M	1670715
LIPID	PS	**40157487001**	Y	1.506	04/10/2018 06:28:37		10.0248	5	1	0.9267	0.9569	M	
LIPID	PS	**40157487002**	Y	1.498	04/10/2018 06:28:37		9.9771	5	1	0.93	0.9599	M	
LIPID	PS	**40157487003**	Y	1.177	04/10/2018 06:28:37		9.9838	5	1	0.9298	0.9533	M	
LIPID	PS	**40157487004**	Y	0.6143	04/10/2018 06:28:37		10.0118	5	1	0.9261	0.9384	M	
LIPID	PS	**40157487005**	Y	1.246	04/10/2018 06:28:37		10.0301	5	1	0.9281	0.9531	M	
LIPID	PS	**40157487006**	Y	1.240	04/10/2018 06:28:37		9.9981	5	1	0.9277	0.9525	M	
LIPID	PS	**40157487007**	Y	1.019	04/10/2018 06:28:37		10.0132	5	1	0.9268	0.9472	M	
LIPID	PS	**40157487008**	Y	1.323	04/10/2018 06:28:37		9.9774	5	1	0.9291	0.9555	M	
LIPID	PS	**40157487009**	Y	0.3939	04/10/2018 06:28:37		10.0287	5	1	0.9285	0.9364	M	
LIPID	PS	**40157487010**	Y	1.038	04/10/2018 06:28:37		10.0176	5	1	0.9254	0.9462	M	
LIPID	PS	**40157492001**	Y	2.125	04/10/2018 06:28:37		10.0003	5	1	0.9247	0.9672	M	
LIPID	PS	**40157492002**	Y	0.9593	04/10/2018 06:28:37		10.0071	5	1	0.9235	0.9427	M	
LIPID	PS	**40157492003**	Y	0.7483	04/10/2018 06:28:37		10.0221	5	1	0.9246	0.9396	M	
LIPID	PS	**40157492004**	Y	0.9311	04/10/2018 06:28:37		9.9887	5	1	0.9251	0.9437	M	
LIPID	PS	**40157825011**	Y	0.3338	04/10/2018 06:28:37		10.0369	5	1	0.9268	0.9335	M	
LIPID	PS	**40157832001**	Y	0.7709	04/10/2018 06:28:37		9.9883	5	1	0.9246	0.94	M	
LIPID	PS	**40157832002**	Y	0.3400	04/10/2018 06:28:37		9.9987	5	1	0.9207	0.9275	M	

Prep Log Report

40157487

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	RQS	**40157832003**	Y	0.7101	04/10/2018 06:28:37		9.9981	5	1	0.9259	0.9401	M	
LIPID	DUP	**1671076**	Y	0.8609	04/10/2018 06:28:37		9.9901	5	1	0.9243	0.9415	M	1670717
LIPID	PS	**40157832004**	Y	0.2942	04/10/2018 06:28:37		10.0274	5	1	0.9266	0.9325	M	
LIPID	PS	**40157832005**	Y	0.4932	04/10/2018 06:28:37		10.0372	5	1	0.9268	0.9367	M	
LIPID	MS	**1682835**	Y	0.6611	04/10/2018 06:28:37		9.9831	5	1	.9262	0.9394	M	1670716

Client Name: GE
Project #: 40157487
Sample Type: Fish
Date/Time Removed to Thaw: 03-28-18
Date/Time Prepped: 03-29-18
Prepped by: CWN + JL + RM
Location Thawed: 40FRG21 Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
1	A	F	Y	192.1	Y	M	42.0	Left / Both	Y	9AG	1	Y	40.2	C	
2	A	F	Y	61.5	Y	M	24.5	Left / Both	Y	9AG	1	Y	24.3	C	
3	A	F	Y	141.9	Y	M	59.2	Left / Both	Y	9AG	1	Y	58.2	C	
4	A	F	Y	140.8	Y	M	53.2	Left / Both	Y	9AG	1	Y	51.4	C	
5	A	F	Y	244.0	Y	M	50.0	Left / Both	Y	9AG	1	Y	48.8	C	
6	A	F	Y	75.4	Y	M	29.2	Left / Both	Y	9AG	1	Y	28.9	C	
7	A	F	Y	224.3	Y	F	53.7	Left / Both	Y	9AG	1	Y	53.1	C	
8	A	F	Y	331.6	Y	F	70.6	Left / Both	Y	9AG	1	Y	69.0	C	
9	A	F	Y	200.0	Y	M	43.1	Left / Both	Y	9AG	1	Y	40.8	C	
10	A	F	Y	312.3	Y	M	61.6	Left / Both	Y	9AG	1	Y	61.1	C	
11	A	F	Y	661.8	Y	M	140.6	Left / Both	Y	9AG	1 CWN 03-29	Y ~~140.5~~	140.5	C	
12	A	F	Y	545.0	Y	F	122.0	Left / Both	Y	9AG	1	Y	119.9	C	
13	A	F	Y	594.1	Y	M	118.9	Left / Both	Y	9AG	1	Y	115.5	C	
14	A	F	Y	622.1	Y	M	142.0	Left / Both	Y	9AG	1	Y	138.1	C	
15	A	F	Y	790.5	Y	M	179.1	Left / Both	Y	9AG	1	Y	176.2	C	
16	A	F	Y	579.0	Y	M	125.9	Left / Both	Y	9AG	1	Y	120.4	C	
17	A	F	Y	1291.3	Y	M	261.6	Left / Both	Y	9AG	2	Y	260.3	C	
18	A	F	Y	1187.0	Y	M	266.9	Left / Both	Y	9AG	2	Y	262.7	C	
19	A	F	Y	861.6	Y	M	177.6	Left / Both	Y	9AG	1	Y	173.8	C	
20	A	F	Y	753.7	Y	M	164.2	Left / Both	Y	9AG	1	Y	159.0	C	

(1) M = Male, F = Female, U = Undetermined
(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.

CWN 03-29-18

(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	F-7-345-D5AB
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

40157487
0441 01 0441