Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40158017

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

May 18, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Tod Noltemeyer

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

Enclosures

cc: Jared Acker, Environmental Standards
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.: 40158017

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.: 40158017

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40158017001	**SW3-170829-01-GOSH-02**	Tissue	08/29/17 15:42	10/05/17 09:40
40158017002	**SW3-170829-01-GOSH-01**	Tissue	08/29/17 15:40	10/05/17 09:40
40158017003	**SW2-170829-01-SPSH-02**	Tissue	08/29/17 16:08	10/05/17 09:40
40158017004	**SW2-170829-01-SPSH-01**	Tissue	08/29/17 16:04	10/05/17 09:40
40158017005	**SW1-170829-01-SPSH-01**	Tissue	08/29/17 14:02	10/05/17 09:40
40158017006	**SW1-170829-01-FALLF-01**	Tissue	08/29/17 14:04	10/05/17 09:40
40158017007	**ND5-170829-01-SPSH-04**	Tissue	08/29/17 13:28	10/05/17 09:40
40158017008	**ND5-170829-01-SPSH-03**	Tissue	08/29/17 13:26	10/05/17 09:40
40158017009	**ND5-170829-01-SPSH-02**	Tissue	08/29/17 13:24	10/05/17 09:40
40158017010	**ND5-170829-01-SPSH-01**	Tissue	08/29/17 13:21	10/05/17 09:40
40158017011	**FD1-170829-01-MMSH-05**	Tissue	08/29/17 09:52	10/05/17 09:40
40158017012	**FD1-170829-01-MMSH-04**	Tissue	08/29/17 09:46	10/05/17 09:40
40158017013	**FD1-170829-01-MMSH-03**	Tissue	08/29/17 09:41	10/05/17 09:40
40158017014	**FD1-170829-01-MMSH-02**	Tissue	08/29/17 09:36	10/05/17 09:40
40158017015	**FD1-170829-01-MMSH-01**	Tissue	08/29/17 09:27	10/05/17 09:40
40158017016	**FD1-170829-01-GOSH-05**	Tissue	08/29/17 09:25	10/05/17 09:40
40158017017	**FD1-170829-01-GOSH-04**	Tissue	08/29/17 09:24	10/05/17 09:40
40158017018	**FD1-170829-01-GOSH-03**	Tissue	08/29/17 09:22	10/05/17 09:40
40158017019	**FD1-170829-01-GOSH-02**	Tissue	08/29/17 09:18	10/05/17 09:40
40158017020	**FD1-170829-01-GOSH-01**	Tissue	08/29/17 09:16	10/05/17 09:40

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40158017001	SW3-170829-01-GOSH-02	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017002	SW3-170829-01-GOSH-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017003	SW2-170829-01-SPSH-02	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017004	SW2-170829-01-SPSH-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017005	SW1-170829-01-SPSH-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017006	SW1-170829-01-FALLF-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017007	ND5-170829-01-SPSH-04	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017008	ND5-170829-01-SPSH-03	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017009	ND5-170829-01-SPSH-02	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017010	ND5-170829-01-SPSH-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017011	FD1-170829-01-MMSH-05	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017012	FD1-170829-01-MMSH-04	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017013	FD1-170829-01-MMSH-03	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017014	FD1-170829-01-MMSH-02	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017015	FD1-170829-01-MMSH-01	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017016	FD1-170829-01-GOSH-05	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017017	FD1-170829-01-GOSH-04	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017018	FD1-170829-01-GOSH-03	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1
40158017019	FD1-170829-01-GOSH-02	EPA 8082A Mod	BLM	10

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		Pace Lipid	ETB	1
40158017020	**FD1-170829-01-GOSH-01**	EPA 8082A Mod	BLM	10
		Pace Lipid	ETB	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 18, 2018

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

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

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

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

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

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

QC Batch: 287324

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

- DUP (Lab ID: 1681911)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 1681430)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

QC Batch: 287454

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

- DUP (Lab ID: 1681910)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- ND5-170829-01-SPSH-01 (Lab ID: 40158017010)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- ND5-170829-01-SPSH-02 (Lab ID: 40158017009)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- ND5-170829-01-SPSH-03 (Lab ID: 40158017008)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- ND5-170829-01-SPSH-04 (Lab ID: 40158017007)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 18, 2018

QC Batch: 287454

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

- SW1-170829-01-FALLF-01 (Lab ID: 40158017006)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- SW1-170829-01-SPSH-01 (Lab ID: 40158017005)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

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

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

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

QC Batch: 287454

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157948007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1681908)
  - PCB-1242 (Aroclor 1242)

QC Batch: 287324

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40157940015

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

- MS (Lab ID: 1681430)
  - PCB-1242 (Aroclor 1242)

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

Additional Comments:

Analyte Comments:

QC Batch: 287324

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

- SW3-170829-01-GOSH-02 (Lab ID: 40158017001)
  - PCB-1016 (Aroclor 1016)

QC Batch: 287737

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

- DUP (Lab ID: 1683454)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 18, 2018

Analyte Comments:

QC Batch: 287737

2q: Sample was re-analyzed due to instrument error.

- FD1-170829-01-MMSH-01 (Lab ID: 40158017015)
  - PCB-1016 (Aroclor 1016)

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 18, 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.: 40158017

Sample: SW3-170829-01-GOSH-02 **Lab ID: 40158017001** Collected: 08/29/17 15:42 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<45.7**	ug/kg	201	45.7	4	04/30/18 10:28	05/10/18 08:26	12674-11-2	1q
PCB-1221 (Aroclor 1221)	**339**	ug/kg	201	45.7	4	04/30/18 10:28	05/10/18 08:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.7**	ug/kg	201	45.7	4	04/30/18 10:28	05/10/18 08:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.7**	ug/kg	201	45.7	4	04/30/18 10:28	05/10/18 08:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**880**	ug/kg	201	45.7	4	04/30/18 10:28	05/10/18 08:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**347**	ug/kg	201	45.7	4	04/30/18 10:28	05/10/18 08:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**93.9J**	ug/kg	201	45.7	4	04/30/18 10:28	05/10/18 08:26	11096-82-5	
PCB, Total	**1660**	ug/kg	201	45.7	4	04/30/18 10:28	05/10/18 08:26	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	102	%	60-140		4	04/30/18 10:28	05/10/18 08:26	877-09-8	
Decachlorobiphenyl (S)	103	%	60-140		4	04/30/18 10:28	05/10/18 08:26	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.7**	%	0.030	0.030	1		04/30/18 14:42		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: SW3-170829-01-GOSH-01 **Lab ID: 40158017002** Collected: 08/29/17 15:40 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<34.2**	ug/kg	150	34.2	3	04/30/18 10:28	05/07/18 18:04	12674-11-2	
PCB-1221 (Aroclor 1221)	**176**	ug/kg	150	34.2	3	04/30/18 10:28	05/07/18 18:04	11104-28-2	
PCB-1232 (Aroclor 1232)	**<34.2**	ug/kg	150	34.2	3	04/30/18 10:28	05/07/18 18:04	11141-16-5	
PCB-1242 (Aroclor 1242)	**<34.2**	ug/kg	150	34.2	3	04/30/18 10:28	05/07/18 18:04	53469-21-9	
PCB-1248 (Aroclor 1248)	**557**	ug/kg	150	34.2	3	04/30/18 10:28	05/07/18 18:04	12672-29-6	
PCB-1254 (Aroclor 1254)	**302**	ug/kg	150	34.2	3	04/30/18 10:28	05/07/18 18:04	11097-69-1	
PCB-1260 (Aroclor 1260)	**78.5J**	ug/kg	150	34.2	3	04/30/18 10:28	05/07/18 18:04	11096-82-5	
PCB, Total	**1110**	ug/kg	150	34.2	3	04/30/18 10:28	05/07/18 18:04	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	60-140		3	04/30/18 10:28	05/07/18 18:04	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		3	04/30/18 10:28	05/07/18 18:04	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.8**	%	0.030	0.030	1		04/30/18 14:42		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: SW2-170829-01-SPSH-02 **Lab ID: 40158017003** Collected: 08/29/17 16:08 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod			Preparation Method: EPA 3541					
PCB-1016 (Aroclor 1016)	**<56.9**	ug/kg	249	56.9	5	05/01/18 07:23	05/08/18 00:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<56.9**	ug/kg	249	56.9	5	05/01/18 07:23	05/08/18 00:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<56.9**	ug/kg	249	56.9	5	05/01/18 07:23	05/08/18 00:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<56.9**	ug/kg	249	56.9	5	05/01/18 07:23	05/08/18 00:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**730**	ug/kg	249	56.9	5	05/01/18 07:23	05/08/18 00:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**523**	ug/kg	249	56.9	5	05/01/18 07:23	05/08/18 00:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**186J**	ug/kg	249	56.9	5	05/01/18 07:23	05/08/18 00:24	11096-82-5	
PCB, Total	**1440**	ug/kg	249	56.9	5	05/01/18 07:23	05/08/18 00:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	60-140		5	05/01/18 07:23	05/08/18 00:24	877-09-8	
Decachlorobiphenyl (S)	92	%	60-140		5	05/01/18 07:23	05/08/18 00:24	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.6**	%	0.030	0.030	1		05/01/18 14:22		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: SW2-170829-01-SPSH-01 **Lab ID: 40158017004** Collected: 08/29/17 16:04 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<45.6**	ug/kg	200	45.6	4	05/01/18 07:23	05/08/18 00:40	12674-11-2	
PCB-1221 (Aroclor 1221)	**<45.6**	ug/kg	200	45.6	4	05/01/18 07:23	05/08/18 00:40	11104-28-2	
PCB-1232 (Aroclor 1232)	**<45.6**	ug/kg	200	45.6	4	05/01/18 07:23	05/08/18 00:40	11141-16-5	
PCB-1242 (Aroclor 1242)	**<45.6**	ug/kg	200	45.6	4	05/01/18 07:23	05/08/18 00:40	53469-21-9	
PCB-1248 (Aroclor 1248)	**665**	ug/kg	200	45.6	4	05/01/18 07:23	05/08/18 00:40	12672-29-6	
PCB-1254 (Aroclor 1254)	**453**	ug/kg	200	45.6	4	05/01/18 07:23	05/08/18 00:40	11097-69-1	
PCB-1260 (Aroclor 1260)	**155J**	ug/kg	200	45.6	4	05/01/18 07:23	05/08/18 00:40	11096-82-5	
PCB, Total	**1270**	ug/kg	200	45.6	4	05/01/18 07:23	05/08/18 00:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	60-140		4	05/01/18 07:23	05/08/18 00:40	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		4	05/01/18 07:23	05/08/18 00:40	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.4**	%	0.030	0.030	1		05/01/18 14:23		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: SW1-170829-01-SPSH-01 **Lab ID: 40158017005** Collected: 08/29/17 14:02 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<342**	ug/kg	1500	342	30	05/01/18 07:23	05/08/18 00:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<342**	ug/kg	1500	342	30	05/01/18 07:23	05/08/18 00:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<342**	ug/kg	1500	342	30	05/01/18 07:23	05/08/18 00:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<342**	ug/kg	1500	342	30	05/01/18 07:23	05/08/18 00:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**5340**	ug/kg	1500	342	30	05/01/18 07:23	05/08/18 00:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**2340**	ug/kg	1500	342	30	05/01/18 07:23	05/08/18 00:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**349J**	ug/kg	1500	342	30	05/01/18 07:23	05/08/18 00:56	11096-82-5	
PCB, Total	**8030**	ug/kg	1500	342	30	05/01/18 07:23	05/08/18 00:56	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		30	05/01/18 07:23	05/08/18 00:56	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		30	05/01/18 07:23	05/08/18 00:56	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.0**	%	0.030	0.030	1		05/01/18 14:23		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: SW1-170829-01-FALLF-01 **Lab ID: 40158017006** Collected: 08/29/17 14:04 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<228**	ug/kg	1000	228	20	05/01/18 07:23	05/08/18 01:12	12674-11-2	
PCB-1221 (Aroclor 1221)	**<228**	ug/kg	1000	228	20	05/01/18 07:23	05/08/18 01:12	11104-28-2	
PCB-1232 (Aroclor 1232)	**<228**	ug/kg	1000	228	20	05/01/18 07:23	05/08/18 01:12	11141-16-5	
PCB-1242 (Aroclor 1242)	**<228**	ug/kg	1000	228	20	05/01/18 07:23	05/08/18 01:12	53469-21-9	
PCB-1248 (Aroclor 1248)	**3690**	ug/kg	1000	228	20	05/01/18 07:23	05/08/18 01:12	12672-29-6	
PCB-1254 (Aroclor 1254)	**2100**	ug/kg	1000	228	20	05/01/18 07:23	05/08/18 01:12	11097-69-1	
PCB-1260 (Aroclor 1260)	**320J**	ug/kg	1000	228	20	05/01/18 07:23	05/08/18 01:12	11096-82-5	
PCB, Total	**6110**	ug/kg	1000	228	20	05/01/18 07:23	05/08/18 01:12	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		20	05/01/18 07:23	05/08/18 01:12	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		20	05/01/18 07:23	05/08/18 01:12	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.7**	%	0.030	0.030	1		05/01/18 14:23		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: ND5-170829-01-SPSH-04 **Lab ID: 40158017007** Collected: 08/29/17 13:28 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<171**	ug/kg	749	171	15	05/01/18 07:23	05/08/18 01:44	12674-11-2	
PCB-1221 (Aroclor 1221)	**<171**	ug/kg	749	171	15	05/01/18 07:23	05/08/18 01:44	11104-28-2	
PCB-1232 (Aroclor 1232)	**<171**	ug/kg	749	171	15	05/01/18 07:23	05/08/18 01:44	11141-16-5	
PCB-1242 (Aroclor 1242)	**<171**	ug/kg	749	171	15	05/01/18 07:23	05/08/18 01:44	53469-21-9	
PCB-1248 (Aroclor 1248)	**2150**	ug/kg	749	171	15	05/01/18 07:23	05/08/18 01:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**900**	ug/kg	749	171	15	05/01/18 07:23	05/08/18 01:44	11097-69-1	
PCB-1260 (Aroclor 1260)	**236J**	ug/kg	749	171	15	05/01/18 07:23	05/08/18 01:44	11096-82-5	
PCB, Total	**3280**	ug/kg	749	171	15	05/01/18 07:23	05/08/18 01:44	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		15	05/01/18 07:23	05/08/18 01:44	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		15	05/01/18 07:23	05/08/18 01:44	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.5**	%	0.030	0.030	1		05/01/18 14:23		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: ND5-170829-01-SPSH-03 **Lab ID: 40158017008** Collected: 08/29/17 13:26 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 01:59	12674-11-2	
PCB-1221 (Aroclor 1221)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 01:59	11104-28-2	
PCB-1232 (Aroclor 1232)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 01:59	11141-16-5	
PCB-1242 (Aroclor 1242)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 01:59	53469-21-9	
PCB-1248 (Aroclor 1248)	**2640**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 01:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**1110**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 01:59	11097-69-1	
PCB-1260 (Aroclor 1260)	**322J**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 01:59	11096-82-5	
PCB, Total	**4070**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 01:59	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		20	05/01/18 07:23	05/08/18 01:59	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		20	05/01/18 07:23	05/08/18 01:59	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.6**	%	0.030	0.030	1		05/01/18 14:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: ND5-170829-01-SPSH-02 **Lab ID: 40158017009** Collected: 08/29/17 13:24 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 02:15	12674-11-2	
PCB-1221 (Aroclor 1221)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 02:15	11104-28-2	
PCB-1232 (Aroclor 1232)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 02:15	11141-16-5	
PCB-1242 (Aroclor 1242)	**<227**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 02:15	53469-21-9	
PCB-1248 (Aroclor 1248)	**3150**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 02:15	12672-29-6	
PCB-1254 (Aroclor 1254)	**1200**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 02:15	11097-69-1	
PCB-1260 (Aroclor 1260)	**290J**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 02:15	11096-82-5	
PCB, Total	**4640**	ug/kg	997	227	20	05/01/18 07:23	05/08/18 02:15	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		20	05/01/18 07:23	05/08/18 02:15	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		20	05/01/18 07:23	05/08/18 02:15	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**5.0**	%	0.030	0.030	1		05/01/18 14:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: ND5-170829-01-SPSH-01 **Lab ID: 40158017010** Collected: 08/29/17 13:21 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<229**	ug/kg	1000	229	20	05/01/18 07:23	05/08/18 02:31	12674-11-2	
PCB-1221 (Aroclor 1221)	**<229**	ug/kg	1000	229	20	05/01/18 07:23	05/08/18 02:31	11104-28-2	
PCB-1232 (Aroclor 1232)	**<229**	ug/kg	1000	229	20	05/01/18 07:23	05/08/18 02:31	11141-16-5	
PCB-1242 (Aroclor 1242)	**<229**	ug/kg	1000	229	20	05/01/18 07:23	05/08/18 02:31	53469-21-9	
PCB-1248 (Aroclor 1248)	**2410**	ug/kg	1000	229	20	05/01/18 07:23	05/08/18 02:31	12672-29-6	
PCB-1254 (Aroclor 1254)	**1030**	ug/kg	1000	229	20	05/01/18 07:23	05/08/18 02:31	11097-69-1	
PCB-1260 (Aroclor 1260)	**268J**	ug/kg	1000	229	20	05/01/18 07:23	05/08/18 02:31	11096-82-5	
PCB, Total	**3710**	ug/kg	1000	229	20	05/01/18 07:23	05/08/18 02:31	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	60-140		20	05/01/18 07:23	05/08/18 02:31	877-09-8	S4
Decachlorobiphenyl (S)	0	%	60-140		20	05/01/18 07:23	05/08/18 02:31	2051-24-3	S4
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.8**	%	0.030	0.030	1		05/01/18 14:24		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: FD1-170829-01-MMSH-05 **Lab ID: 40158017011** Collected: 08/29/17 09:52 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod		Preparation Method: EPA 3541						
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 16:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 16:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 16:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 16:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**50.0J**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 16:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**35.9J**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 16:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**29.2J**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 16:11	11096-82-5	
PCB, Total	**115**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 16:11	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	104	%	60-140		1	05/04/18 07:32	05/08/18 16:11	877-09-8	
Decachlorobiphenyl (S)	87	%	60-140		1	05/04/18 07:32	05/08/18 16:11	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.7**	%	0.030	0.030	1		05/03/18 09:45		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: FD1-170829-01-MMSH-04 **Lab ID: 40158017012** Collected: 08/29/17 09:46 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod		Preparation Method: EPA 3541						
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.8	11.4	1	05/04/18 07:32	05/08/18 16:58	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	05/04/18 07:32	05/08/18 16:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	05/04/18 07:32	05/08/18 16:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	05/04/18 07:32	05/08/18 16:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**36.1J**	ug/kg	49.8	11.4	1	05/04/18 07:32	05/08/18 16:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**27.9J**	ug/kg	49.8	11.4	1	05/04/18 07:32	05/08/18 16:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**26.8J**	ug/kg	49.8	11.4	1	05/04/18 07:32	05/08/18 16:58	11096-82-5	
PCB, Total	**90.9**	ug/kg	49.8	11.4	1	05/04/18 07:32	05/08/18 16:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	108	%	60-140		1	05/04/18 07:32	05/08/18 16:58	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	05/04/18 07:32	05/08/18 16:58	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.4**	%	0.030	0.030	1		05/03/18 09:45		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: FD1-170829-01-MMSH-03 **Lab ID: 40158017013** Collected: 08/29/17 09:41 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 17:46	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 17:46	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 17:46	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 17:46	53469-21-9	
PCB-1248 (Aroclor 1248)	**36.1J**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 17:46	12672-29-6	
PCB-1254 (Aroclor 1254)	**28.8J**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 17:46	11097-69-1	
PCB-1260 (Aroclor 1260)	**27.4J**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 17:46	11096-82-5	
PCB, Total	**92.3**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/08/18 17:46	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	108	%	60-140		1	05/04/18 07:32	05/08/18 17:46	877-09-8	
Decachlorobiphenyl (S)	90	%	60-140		1	05/04/18 07:32	05/08/18 17:46	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.7**	%	0.030	0.030	1		05/03/18 09:45		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: FD1-170829-01-MMSH-02 **Lab ID: 40158017014** Collected: 08/29/17 09:36 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	05/04/18 07:32	05/08/18 18:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	05/04/18 07:32	05/08/18 18:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	05/04/18 07:32	05/08/18 18:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	05/04/18 07:32	05/08/18 18:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**27.6J**	ug/kg	49.9	11.4	1	05/04/18 07:32	05/08/18 18:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**24.3J**	ug/kg	49.9	11.4	1	05/04/18 07:32	05/08/18 18:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**27.7J**	ug/kg	49.9	11.4	1	05/04/18 07:32	05/08/18 18:02	11096-82-5	
PCB, Total	**79.6**	ug/kg	49.9	11.4	1	05/04/18 07:32	05/08/18 18:02	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	103	%	60-140		1	05/04/18 07:32	05/08/18 18:02	877-09-8	
Decachlorobiphenyl (S)	85	%	60-140		1	05/04/18 07:32	05/08/18 18:02	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.3**	%	0.030	0.030	1		05/03/18 09:45		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: FD1-170829-01-MMSH-01 **Lab ID: 40158017015** Collected: 08/29/17 09:27 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/10/18 09:30	12674-11-2	2q
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/10/18 09:30	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/10/18 09:30	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/10/18 09:30	53469-21-9	
PCB-1248 (Aroclor 1248)	**24.2J**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/10/18 09:30	12672-29-6	
PCB-1254 (Aroclor 1254)	**21.3J**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/10/18 09:30	11097-69-1	
PCB-1260 (Aroclor 1260)	**24.9J**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/10/18 09:30	11096-82-5	
PCB, Total	**70.5**	ug/kg	50.0	11.4	1	05/04/18 07:32	05/10/18 09:30	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	60-140		1	05/04/18 07:32	05/10/18 09:30	877-09-8	
Decachlorobiphenyl (S)	84	%	60-140		1	05/04/18 07:32	05/10/18 09:30	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.5**	%	0.030	0.030	1		05/03/18 09:45		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: FD1-170829-01-GOSH-05 **Lab ID: 40158017016** Collected: 08/29/17 09:25 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.1	11.4	1	04/30/18 10:28	05/07/18 18:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.1	11.4	1	04/30/18 10:28	05/07/18 18:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.1	11.4	1	04/30/18 10:28	05/07/18 18:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.1	11.4	1	04/30/18 10:28	05/07/18 18:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**15.9J**	ug/kg	50.1	11.4	1	04/30/18 10:28	05/07/18 18:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**19.4J**	ug/kg	50.1	11.4	1	04/30/18 10:28	05/07/18 18:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**16.4J**	ug/kg	50.1	11.4	1	04/30/18 10:28	05/07/18 18:20	11096-82-5	
PCB, Total	**51.6**	ug/kg	50.1	11.4	1	04/30/18 10:28	05/07/18 18:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	60-140		1	04/30/18 10:28	05/07/18 18:20	877-09-8	
Decachlorobiphenyl (S)	85	%	60-140		1	04/30/18 10:28	05/07/18 18:20	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.9**	%	0.030	0.030	1		04/30/18 14:42		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: FD1-170829-01-GOSH-04 **Lab ID: 40158017017** Collected: 08/29/17 09:24 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**16.8J**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**17.9J**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**19.3J**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:36	11096-82-5	
PCB, Total	**54.0**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:36	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	60-140		1	04/30/18 10:28	05/07/18 18:36	877-09-8	
Decachlorobiphenyl (S)	80	%	60-140		1	04/30/18 10:28	05/07/18 18:36	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.6**	%	0.030	0.030	1		04/30/18 14:42		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: FD1-170829-01-GOSH-03 **Lab ID: 40158017018** Collected: 08/29/17 09:22 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod		Preparation Method: EPA 3541						
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**18.8J**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**18.8J**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**19.1J**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:52	11096-82-5	
PCB, Total	**56.7**	ug/kg	49.9	11.4	1	04/30/18 10:28	05/07/18 18:52	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	60-140		1	04/30/18 10:28	05/07/18 18:52	877-09-8	
Decachlorobiphenyl (S)	84	%	60-140		1	04/30/18 10:28	05/07/18 18:52	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.9**	%	0.030	0.030	1		04/30/18 14:43		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: FD1-170829-01-GOSH-02 **Lab ID: 40158017019** Collected: 08/29/17 09:18 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod			Preparation Method: EPA 3541					
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:08	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:08	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:08	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:08	53469-21-9	
PCB-1248 (Aroclor 1248)	**29.0J**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:08	12672-29-6	
PCB-1254 (Aroclor 1254)	**21.9J**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:08	11097-69-1	
PCB-1260 (Aroclor 1260)	**18.9J**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:08	11096-82-5	
PCB, Total	**69.8**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:08	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	99	%	60-140		1	04/30/18 10:28	05/07/18 19:08	877-09-8	
Decachlorobiphenyl (S)	88	%	60-140		1	04/30/18 10:28	05/07/18 19:08	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**3.1**	%	0.030	0.030	1		04/30/18 14:43		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

Sample: FD1-170829-01-GOSH-01 **Lab ID: 40158017020** Collected: 08/29/17 09:16 Received: 10/05/17 09:40 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**23.5J**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**22.2J**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**25.7J**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:23	11096-82-5	
PCB, Total	**71.4**	ug/kg	50.0	11.4	1	04/30/18 10:28	05/07/18 19:23	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	103	%	60-140		1	04/30/18 10:28	05/07/18 19:23	877-09-8	
Decachlorobiphenyl (S)	93	%	60-140		1	04/30/18 10:28	05/07/18 19:23	2051-24-3	
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.9**	%	0.030	0.030	1		04/30/18 14:43		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

QC Batch: 287324 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40158017001, 40158017002, 40158017016, 40158017017, 40158017018, 40158017019, 40158017020

METHOD BLANK: 1681428 | Matrix: Tissue
Associated Lab Samples: 40158017001, 40158017002, 40158017016, 40158017017, 40158017018, 40158017019, 40158017020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	05/07/18 14:38	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	05/07/18 14:38	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	05/07/18 14:38	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	05/07/18 14:38	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	05/07/18 14:38	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	05/07/18 14:38	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	05/07/18 14:38	
Decachlorobiphenyl (S)	%	80	60-140		05/07/18 14:38	
Tetrachloro-m-xylene (S)	%	70	60-140		05/07/18 14:38	

LABORATORY CONTROL SAMPLE: 1681429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<11.4			
PCB-1221 (Aroclor 1221)	ug/kg		<11.4			
PCB-1232 (Aroclor 1232)	ug/kg		<11.4			
PCB-1242 (Aroclor 1242)	ug/kg	250	236	94	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)	%			86	60-140	
Tetrachloro-m-xylene (S)	%			77	60-140	

MATRIX SPIKE SAMPLE: 1681430

Parameter	Units	40157940015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<228		<228			
PCB-1221 (Aroclor 1221)	ug/kg	996J		1220			
PCB-1232 (Aroclor 1232)	ug/kg	<228		<228			
PCB-1242 (Aroclor 1242)	ug/kg	<228	250	1220	487	70-130	M6
PCB-1248 (Aroclor 1248)	ug/kg	2930		2890			
PCB-1254 (Aroclor 1254)	ug/kg	1260		1200			
PCB-1260 (Aroclor 1260)	ug/kg	288J		268J			
Decachlorobiphenyl (S)	%				0	60-140	S4
Tetrachloro-m-xylene (S)	%				0	60-140	S4

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

SAMPLE DUPLICATE: 1681432

Parameter	Units	40157948011 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<114	<114		40	
PCB-1221 (Aroclor 1221)	ug/kg	614	631	3	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	1830	1870	2	40	
PCB-1254 (Aroclor 1254)	ug/kg	785	805	3	40	
PCB-1260 (Aroclor 1260)	ug/kg	187J	196J		40	
Decachlorobiphenyl (S)	%	103	102	1		
Tetrachloro-m-xylene (S)	%	97	96	1		

SAMPLE DUPLICATE: 1681433

Parameter	Units	40158017020 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<11.4		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<11.4		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<11.4		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<11.4		40	
PCB-1248 (Aroclor 1248)	ug/kg	23.5J	21.8J		40	
PCB-1254 (Aroclor 1254)	ug/kg	22.2J	20.0J		40	
PCB-1260 (Aroclor 1260)	ug/kg	25.7J	24.0J		40	
Decachlorobiphenyl (S)	%	93	85	9		
Tetrachloro-m-xylene (S)	%	103	95	8		

SAMPLE DUPLICATE: 1681434

Parameter	Units	40158029004 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<56.8	<56.9		40	
PCB-1221 (Aroclor 1221)	ug/kg	277	291	5	40	
PCB-1232 (Aroclor 1232)	ug/kg	<56.8	<56.9		40	
PCB-1242 (Aroclor 1242)	ug/kg	<56.8	<56.9		40	
PCB-1248 (Aroclor 1248)	ug/kg	890	922	4	40	
PCB-1254 (Aroclor 1254)	ug/kg	334	347	4	40	
PCB-1260 (Aroclor 1260)	ug/kg	97.0J	102J		40	
Decachlorobiphenyl (S)	%	99	102	4		
Tetrachloro-m-xylene (S)	%	94	99	5		

SAMPLE DUPLICATE: 1681911

Parameter	Units	40157940015 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<228	<228		40	
PCB-1221 (Aroclor 1221)	ug/kg	996J	1040		40	
PCB-1232 (Aroclor 1232)	ug/kg	<228	<228		40	

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

SAMPLE DUPLICATE: 1681911

Parameter	Units	40157940015 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1242 (Aroclor 1242)	ug/kg	<228	<228		40	
PCB-1248 (Aroclor 1248)	ug/kg	2930	2680	9	40	
PCB-1254 (Aroclor 1254)	ug/kg	1260	1150	9	40	
PCB-1260 (Aroclor 1260)	ug/kg	288J	280J		40	
Decachlorobiphenyl (S)	%	0	0			S4
Tetrachloro-m-xylene (S)	%	0	0			S4

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

QC Batch: 287454 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40158017003, 40158017004, 40158017005, 40158017006, 40158017007, 40158017008, 40158017009, 40158017010

METHOD BLANK: 1681906 | Matrix: Tissue
Associated Lab Samples: 40158017003, 40158017004, 40158017005, 40158017006, 40158017007, 40158017008, 40158017009, 40158017010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	05/07/18 21:14	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	05/07/18 21:14	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	05/07/18 21:14	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	05/07/18 21:14	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	05/07/18 21:14	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	05/07/18 21:14	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	05/07/18 21:14	
Decachlorobiphenyl (S)	%	90	60-140		05/07/18 21:14	
Tetrachloro-m-xylene (S)	%	77	60-140		05/07/18 21:14	

LABORATORY CONTROL SAMPLE: 1681907

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	240	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)	%			92	60-140	
Tetrachloro-m-xylene (S)	%			80	60-140	

MATRIX SPIKE SAMPLE: 1681908

Parameter	Units	40157948007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<57.1		<105			
PCB-1221 (Aroclor 1221)	ug/kg	<57.1		<105			
PCB-1232 (Aroclor 1232)	ug/kg	<57.1		<105			
PCB-1242 (Aroclor 1242)	ug/kg	<57.1	460	649	141	70-130	M1
PCB-1248 (Aroclor 1248)	ug/kg	1190		1410			
PCB-1254 (Aroclor 1254)	ug/kg	685		676			
PCB-1260 (Aroclor 1260)	ug/kg	120J		119J			
Decachlorobiphenyl (S)	%				98	60-140	
Tetrachloro-m-xylene (S)	%				88	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.: 40158017

SAMPLE DUPLICATE: 1681909

Parameter	Units	40157948007 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<57.1	<65.5		40	
PCB-1221 (Aroclor 1221)	ug/kg	<57.1	<65.5		40	
PCB-1232 (Aroclor 1232)	ug/kg	<57.1	<65.5		40	
PCB-1242 (Aroclor 1242)	ug/kg	<57.1	<65.5		40	
PCB-1248 (Aroclor 1248)	ug/kg	1190	1200	1	40	
PCB-1254 (Aroclor 1254)	ug/kg	685	694	1	40	
PCB-1260 (Aroclor 1260)	ug/kg	120J	123J		40	
Decachlorobiphenyl (S)	%	106	103	11		
Tetrachloro-m-xylene (S)	%	103	99	9		

SAMPLE DUPLICATE: 1681910

Parameter	Units	40158017006 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<228	<228		40	
PCB-1221 (Aroclor 1221)	ug/kg	<228	<228		40	
PCB-1232 (Aroclor 1232)	ug/kg	<228	<228		40	
PCB-1242 (Aroclor 1242)	ug/kg	<228	<228		40	
PCB-1248 (Aroclor 1248)	ug/kg	3690	3260	13	40	
PCB-1254 (Aroclor 1254)	ug/kg	2100	1840	13	40	
PCB-1260 (Aroclor 1260)	ug/kg	320J	292J		40	
Decachlorobiphenyl (S)	%	0	0			S4
Tetrachloro-m-xylene (S)	%	0	0			S4

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

QC Batch: 287737 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40158017011, 40158017012, 40158017013, 40158017014, 40158017015

METHOD BLANK: 1683452 | Matrix: Tissue
Associated Lab Samples: 40158017011, 40158017012, 40158017013, 40158017014, 40158017015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	05/08/18 15:07	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	05/08/18 15:07	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	05/08/18 15:07	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	05/08/18 15:07	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	05/08/18 15:07	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	05/08/18 15:07	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	05/08/18 15:07	
Decachlorobiphenyl (S)	%	85	60-140		05/08/18 15:07	
Tetrachloro-m-xylene (S)	%	77	60-140		05/08/18 15:07	

LABORATORY CONTROL SAMPLE: 1683453

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	256	103	70-130	
PCB-1248 (Aroclor 1248)	ug/kg		<11.4			
PCB-1254 (Aroclor 1254)	ug/kg		<11.4			
PCB-1260 (Aroclor 1260)	ug/kg		<11.4			
Decachlorobiphenyl (S)	%			96	60-140	
Tetrachloro-m-xylene (S)	%			90	60-140	

MATRIX SPIKE SAMPLE: 1683455

Parameter	Units	40158017011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4		<32.2			
PCB-1221 (Aroclor 1221)	ug/kg	<11.4		<32.2			
PCB-1232 (Aroclor 1232)	ug/kg	<11.4		<32.2			
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	705	709	101	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	50.0J		495			
PCB-1254 (Aroclor 1254)	ug/kg	35.9J		111J			
PCB-1260 (Aroclor 1260)	ug/kg	29.2J		41.4J			
Decachlorobiphenyl (S)	%				81	60-140	
Tetrachloro-m-xylene (S)	%				87	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.: 40158017

SAMPLE DUPLICATE: 1683454

Parameter	Units	40157948006 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<101	<83.9		40	1q
PCB-1221 (Aroclor 1221)	ug/kg	<101	<83.9		40	
PCB-1232 (Aroclor 1232)	ug/kg	<101	<83.9		40	
PCB-1242 (Aroclor 1242)	ug/kg	<101	<83.9		40	
PCB-1248 (Aroclor 1248)	ug/kg	2540	2510	1	40	
PCB-1254 (Aroclor 1254)	ug/kg	1490	1470	1	40	
PCB-1260 (Aroclor 1260)	ug/kg	216J	215J		40	
Decachlorobiphenyl (S)	%	94	94	36		
Tetrachloro-m-xylene (S)	%	90	88	39		

SAMPLE DUPLICATE: 1683456

Parameter	Units	40158017011 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	<26.3		40	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	<26.3		40	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	<26.3		40	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	<26.3		40	
PCB-1248 (Aroclor 1248)	ug/kg	50.0J	53.1J		40	
PCB-1254 (Aroclor 1254)	ug/kg	35.9J	38.1J		40	
PCB-1260 (Aroclor 1260)	ug/kg	29.2J	37.2J		40	
Decachlorobiphenyl (S)	%	87	93	85		
Tetrachloro-m-xylene (S)	%	104	103	78		

SAMPLE DUPLICATE: 1683457

Parameter	Units	40158029012 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.8	<32.5		40	
PCB-1221 (Aroclor 1221)	ug/kg	113	122J		40	
PCB-1232 (Aroclor 1232)	ug/kg	<22.8	<32.5		40	
PCB-1242 (Aroclor 1242)	ug/kg	<22.8	<32.5		40	
PCB-1248 (Aroclor 1248)	ug/kg	232	236	2	40	
PCB-1254 (Aroclor 1254)	ug/kg	177	176	0	40	
PCB-1260 (Aroclor 1260)	ug/kg	78.6J	82.9J		40	
Decachlorobiphenyl (S)	%	88	86	33		
Tetrachloro-m-xylene (S)	%	91	89	33		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

QC Batch: 287437 | Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid | Analysis Description: LIPID
Associated Lab Samples: 40158017001, 40158017002, 40158017016, 40158017017, 40158017018, 40158017019, 40158017020

METHOD BLANK: 1681739 | Matrix: Tissue
Associated Lab Samples: 40158017001, 40158017002, 40158017016, 40158017017, 40158017018, 40158017019, 40158017020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	04/30/18 14:40	

MATRIX SPIKE SAMPLE: 1688378

Parameter	Units	40157940015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	3.7		3.8			

SAMPLE DUPLICATE: 1681741

Parameter	Units	40157940015 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	3.7	3.7	1	40	

SAMPLE DUPLICATE: 1681743

Parameter	Units	40157948011 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	2.7	2.8	6	40	

SAMPLE DUPLICATE: 1681744

Parameter	Units	40158017020 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	2.9	2.6	9	40	

SAMPLE DUPLICATE: 1681745

Parameter	Units	40158029004 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	3.5	3.7	4	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

QC Batch: 287559 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40158017003, 40158017004, 40158017005, 40158017006, 40158017007, 40158017008, 40158017009, 40158017010

METHOD BLANK: 1682357 Matrix: Tissue
Associated Lab Samples: 40158017003, 40158017004, 40158017005, 40158017006, 40158017007, 40158017008, 40158017009, 40158017010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	05/01/18 14:21	

MATRIX SPIKE SAMPLE: 1683590

Parameter	Units	40157948007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	4.7		4.6			

SAMPLE DUPLICATE: 1682360

Parameter	Units	40157948007 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	4.7	4.7	1	40	

SAMPLE DUPLICATE: 1682361

Parameter	Units	40158017006 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.7	1.5	11	40	

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

QC Batch: 287776 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40158017011, 40158017012, 40158017013, 40158017014, 40158017015

METHOD BLANK: 1683598 Matrix: Tissue
Associated Lab Samples: 40158017011, 40158017012, 40158017013, 40158017014, 40158017015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	05/03/18 09:44	

MATRIX SPIKE SAMPLE: 1683601

Parameter	Units	40158017011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	4.7		4.6			

SAMPLE DUPLICATE: 1683600

Parameter	Units	40157948006 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	5.1	5.2	2	40	

SAMPLE DUPLICATE: 1683602

Parameter	Units	40158017011 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	4.7	4.6	2	40	

SAMPLE DUPLICATE: 1683603

Parameter	Units	40158029012 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	2.8	2.7	2	40	

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QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40158017

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q	Sample was re-analyzed due to incorrect dilution.
2q	Sample was re-analyzed due to instrument error.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
S4	Surrogate 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.: 40158017

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40158017001	**SW3-170829-01-GOSH-02**	EPA 3541	287324	EPA 8082A Mod	287513
40158017002	**SW3-170829-01-GOSH-01**	EPA 3541	287324	EPA 8082A Mod	287513
40158017003	**SW2-170829-01-SPSH-02**	EPA 3541	287454	EPA 8082A Mod	287632
40158017004	**SW2-170829-01-SPSH-01**	EPA 3541	287454	EPA 8082A Mod	287632
40158017005	**SW1-170829-01-SPSH-01**	EPA 3541	287454	EPA 8082A Mod	287632
40158017006	**SW1-170829-01-FALLF-01**	EPA 3541	287454	EPA 8082A Mod	287632
40158017007	**ND5-170829-01-SPSH-04**	EPA 3541	287454	EPA 8082A Mod	287632
40158017008	**ND5-170829-01-SPSH-03**	EPA 3541	287454	EPA 8082A Mod	287632
40158017009	**ND5-170829-01-SPSH-02**	EPA 3541	287454	EPA 8082A Mod	287632
40158017010	**ND5-170829-01-SPSH-01**	EPA 3541	287454	EPA 8082A Mod	287632
40158017011	**FD1-170829-01-MMSH-05**	EPA 3541	287737	EPA 8082A Mod	287881
40158017012	**FD1-170829-01-MMSH-04**	EPA 3541	287737	EPA 8082A Mod	287881
40158017013	**FD1-170829-01-MMSH-03**	EPA 3541	287737	EPA 8082A Mod	287881
40158017014	**FD1-170829-01-MMSH-02**	EPA 3541	287737	EPA 8082A Mod	287881
40158017015	**FD1-170829-01-MMSH-01**	EPA 3541	287737	EPA 8082A Mod	287881
40158017016	**FD1-170829-01-GOSH-05**	EPA 3541	287324	EPA 8082A Mod	287513
40158017017	**FD1-170829-01-GOSH-04**	EPA 3541	287324	EPA 8082A Mod	287513
40158017018	**FD1-170829-01-GOSH-03**	EPA 3541	287324	EPA 8082A Mod	287513
40158017019	**FD1-170829-01-GOSH-02**	EPA 3541	287324	EPA 8082A Mod	287513
40158017020	**FD1-170829-01-GOSH-01**	EPA 3541	287324	EPA 8082A Mod	287513
40158017001	**SW3-170829-01-GOSH-02**	Pace Lipid	287437		
40158017002	**SW3-170829-01-GOSH-01**	Pace Lipid	287437		
40158017003	**SW2-170829-01-SPSH-02**	Pace Lipid	287559		
40158017004	**SW2-170829-01-SPSH-01**	Pace Lipid	287559		
40158017005	**SW1-170829-01-SPSH-01**	Pace Lipid	287559		
40158017006	**SW1-170829-01-FALLF-01**	Pace Lipid	287559		
40158017007	**ND5-170829-01-SPSH-04**	Pace Lipid	287559		
40158017008	**ND5-170829-01-SPSH-03**	Pace Lipid	287559		
40158017009	**ND5-170829-01-SPSH-02**	Pace Lipid	287559		
40158017010	**ND5-170829-01-SPSH-01**	Pace Lipid	287559		
40158017011	**FD1-170829-01-MMSH-05**	Pace Lipid	287776		
40158017012	**FD1-170829-01-MMSH-04**	Pace Lipid	287776		
40158017013	**FD1-170829-01-MMSH-03**	Pace Lipid	287776		
40158017014	**FD1-170829-01-MMSH-02**	Pace Lipid	287776		
40158017015	**FD1-170829-01-MMSH-01**	Pace Lipid	287776		
40158017016	**FD1-170829-01-GOSH-05**	Pace Lipid	287437		
40158017017	**FD1-170829-01-GOSH-04**	Pace Lipid	287437		
40158017018	**FD1-170829-01-GOSH-03**	Pace Lipid	287437		
40158017019	**FD1-170829-01-GOSH-02**	Pace Lipid	287437		
40158017020	**FD1-170829-01-GOSH-01**	Pace Lipid	287437		

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without the written consent of Pace Analytical Services, LLC.

40158017

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170829-T11-03
Sample Custodian: SA
Lab: Pace - Green Bay

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

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	SW3-170829-01	SW3-170829-01-GOSH-02	8/29/2017	15:42	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
002	SW3-170829-01	SW3-170829-01-GOSH-01	8/29/2017	15:40	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
003	SW2-170829-01	SW2-170829-01-SPSH-02	8/29/2017	16:08	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
004	SW2-170829-01	SW2-170829-01-SPSH-01	8/29/2017	16:04	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
005	SW1-170829-01	SW1-170829-01-SPSH-01	8/29/2017	14:02	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
006	SW1-170829-01	SW1-170829-01-FALLF-01	8/29/2017	14:04	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
007	ND5-170829-01	ND5-170829-01-SPSH-04	8/29/2017	13:28	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
008	ND5-170829-01	ND5-170829-01-SPSH-03	8/29/2017	13:26	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
009	ND5-170829-01	ND5-170829-01-SPSH-02	8/29/2017	13:24	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
010	ND5-170829-01	ND5-170829-01-SPSH-01	8/29/2017	13:21	☐	1	F	WH	☑	☐	☐	☑	☑	☐	

OK 10/5/17

1-Ziploc A

Comments:

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

Clemson
Alaska
Pace
10/5/17 0940

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

40158017

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170829-T11-03
Sample Custodian: SA
Lab: Pace - Green Bay

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program

COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
011	FD1-170829-01	FD1-170829-01-MMSH-05	8/29/2017	9:52	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
012	FD1-170829-01	FD1-170829-01-MMSH-04	8/29/2017	9:46	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
013	FD1-170829-01	FD1-170829-01-MMSH-03	8/29/2017	9:41	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
014	FD1-170829-01	FD1-170829-01-MMSH-02	8/29/2017	9:36	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
015	FD1-170829-01	FD1-170829-01-MMSH-01	8/29/2017	9:27	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
016	FD1-170829-01	FD1-170829-01-GOSH-05	8/29/2017	9:25	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
017	FD1-170829-01	FD1-170829-01-GOSH-04	8/29/2017	9:24	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
018	FD1-170829-01	FD1-170829-01-GOSH-03	8/29/2017	9:22	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
019	FD1-170829-01	FD1-170829-01-GOSH-02	8/29/2017	9:18	☐	1	F	WH	☑	☐	☐	☑	☑	☐	
020	FD1-170829-01	FD1-170829-01-GOSH-01	8/29/2017	9:16	☑	1	F	WH	☑	☐	☐	☑	☑	☐	

OK not with

1-ziplock

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature VIA FEDEX →	Signature
Print Name Jim Ryan	Print Name M Brokes	Print Name M Broker	Print Name	Print Name	Print Name
Company Anchor QEA	Company PACE	Company PACE	Company PACE	Company PACE	Company Fedex
Date/Time 8/30/17	Date/Time 8/30/17 9:50	Date/Time 8/30/17 10:35	Date/Time 8/30/17 10:35	Date/Time 10/9/17 16:00	Date/Time 10/9/17 0940

Allison Mletha Pace 10/9/17 0940

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

40158017

Pace Analytical

Sample Condition Upon Receipt

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

Project # **WO#: 40158017**

40158017

Client Name: GE

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

Tracking #: 409994704799

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

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

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

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

Cooler Temperature Uncorr: 1 /Corr: 1 **Biological Tissue is Frozen:** ☑ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

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

Person examining contents:
Date: 10/5/17
Initials: [illegible]

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40158017
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

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

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

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

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

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

D. Spikes:
1. **Lab Control Spike (LCS):** The control spike was fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
2. **Matrix Spike (MS):** Sample FD1-170829-01-MMSH-05 was designated as the parent sample for the MS for this SDG and one portion of the sample was fortified with Aroclor 1242. The QAPP specified accuracy criteria were met.
3. **Matrix Spike (MS):** Batch QC was analyzed with extraction batches 287324 and 287454 and one portion of each parent sample was fortified with Aroclor 1242. MS 1681430 required a 1:20 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 MS 1681430 on the final report. MS 1681908 required a 1:5 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were not met; the “M1” data qualifier was applied to MS 1681908 on the final report.

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

F. Sample Duplicate: Samples SW1-170829-01-FALLF-01, FD1-170829-01-MMSH-05, and FD1-170829-01-GOSH-01 were designated as the duplicates for this SDG. The QAPP specified precision criteria were met. Batch duplicates were also analyzed with this SDG. Duplicate results are not evaluated below the reporting limit.

G. Dilutions:

Sample ID	Reason for dilution
SW3-170829-01-GOSH-02	To bring Aroclors within instrument calibration range
SW3-170829-01-GOSH-01	To bring Aroclors within instrument calibration range
SW2-170829-01-SPSH-02	To bring Aroclors within instrument calibration range
SW2-170829-01-SPSH-01	To bring Aroclors within instrument calibration range
SW1-170829-01-SPSH-01	To bring Aroclors within instrument calibration range
SW1-170829-01-FALLF-01	To bring Aroclors within instrument calibration range
ND5-170829-01-SPSH-04	To bring Aroclors within instrument calibration range
ND5-170829-01-SPSH-03	To bring Aroclors within instrument calibration range
ND5-170829-01-SPSH-02	To bring Aroclors within instrument calibration range
ND5-170829-01-SPSH-01	To bring Aroclors within instrument calibration range

H. Reanalysis: Sample SW3-170829-01-GOSH-02 was initially analyzed diluted based on screener data. Upon analysis, the sample was found to require reanalysis at a greater dilution to bring individual Aroclor peaks within instrument calibration range. The sample was reported with the "1q" data qualifier on the final report to note the occurrence. Sample FD-170829-01-MMSH-01 required reanalysis due to a bad injection. The sample was reported with the "2q" data qualifier on the final report to note the occurrence.

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

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

Signed: Leigh A Begalske Date: 05/21/18

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.: 40158017 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1681428	1681428BLANK	80	70
1681429	1681429LCS	86	77
1681433	1681433DUP	85	95
40158017001	SW3-170829-01-GOSH-02	103	102
40158017002	SW3-170829-01-GOSH-01	90	91
40158017016	FD1-170829-01-GOSH-05	85	96
40158017017	FD1-170829-01-GOSH-04	80	93
40158017018	FD1-170829-01-GOSH-03	84	92
40158017019	FD1-170829-01-GOSH-02	88	99
40158017020	FD1-170829-01-GOSH-01	93	103

	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.: 40158017 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1681906	1681906BLANK	90	77
1681907	1681907LCS	92	80
1681910	1681910DUP	0*	0*
40158017003	SW2-170829-01-SPSH-02	92	87
40158017004	SW2-170829-01-SPSH-01	90	83
40158017005	SW1-170829-01-SPSH-01	0*	0*
40158017006	SW1-170829-01-FALLF-01	0*	0*
40158017007	ND5-170829-01-SPSH-04	0*	0*
40158017008	ND5-170829-01-SPSH-03	0*	0*
40158017009	ND5-170829-01-SPSH-02	0*	0*
40158017010	ND5-170829-01-SPSH-01	0*	0*

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

* Values outside of QC Limits

PCB - FORM II SVOA-3
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40158017 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1683452	1683452BLANK	85	77
1683453	1683453LCS	96	90
1683455	1683455MS	81	87
1683456	1683456DUP	93	103
40158017011	FD1-170829-01-MMSH-05	87	104
40158017012	FD1-170829-01-MMSH-04	90	108
40158017013	FD1-170829-01-MMSH-03	90	108
40158017014	FD1-170829-01-MMSH-02	85	103
40158017015	FD1-170829-01-MMSH-01	84	97

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

* Values outside of QC Limits

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/30/2018

Instrument: 40GCSK

Lab File ID: 050718.B\050718007.D

Lab Sample ID: 1681429LCS

Date Analyzed (1): 05/07/2018

LCS Lot No: 192096

SDG No.: 40158017

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	236	94	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/01/2018

Instrument: 40GCSK

Lab File ID: 050718.B\050718032.D

Lab Sample ID: 1681907LCS

Date Analyzed (1): 05/07/2018

LCS Lot No: 192096

SDG No.: 40158017

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	240	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

Date Extracted: 05/04/2018

Instrument: 40GCSK

Lab File ID: 050718.B\050718081.D

Lab Sample ID: 1683453LCS

Date Analyzed (1): 05/08/2018

LCS Lot No: 192096

SDG No.: 40158017

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	256	103	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: 04/30/2018

Instrument: 40GCSK

Parent Sample ID: 40157940015

Matrix Spike - Sample No: 1681430MS

Date Analyzed (1): 05/07/2018

Lab File ID: 050718.B\050718009.D

SDG No.: 40158017

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<228	1220	487	70-130

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/01/2018

Instrument: 40GCSK

Parent Sample ID: 40157948007

Matrix Spike - Sample No: 1681908MS

Date Analyzed (1): 05/07/2018

Lab File ID: 050718.B\050718036.D

SDG No.: 40158017

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	460	<57.1	649	141	70-130

Spike Recovery: 1 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/04/2018

Instrument: 40GCSK

Parent Sample ID: FD1-170829-01-MMSH-05

Matrix Spike - Sample No: 1683455MS

Date Analyzed (1): 05/08/2018

Lab File ID: 050718.B\050718085.D

SDG No.: 40158017

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	705	<11.4	709	101	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: 04/30/2018

Instrument 40GCSK

Lab Sample ID: 40157940015

Duplicate Sample No: 40157940015DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718010.D

SDG No.: 40158017

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<228	<228		0-40
PCB-1221 (Aroclor 1221)	996J	1040		0-40
PCB-1232 (Aroclor 1232)	<228	<228		0-40
PCB-1242 (Aroclor 1242)	<228	<228		0-40
PCB-1248 (Aroclor 1248)	2930	2680	9	0-40
PCB-1254 (Aroclor 1254)	1260	1150	9	0-40
PCB-1260 (Aroclor 1260)	288J	280J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/30/2018

Instrument 40GCSK

Lab Sample ID: 40157948011

Duplicate Sample No: 40157948011DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718014.D

SDG No.: 40158017

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<114	<114		0-40
PCB-1221 (Aroclor 1221)	614	631	3	0-40
PCB-1232 (Aroclor 1232)	<114	<114		0-40
PCB-1242 (Aroclor 1242)	<114	<114		0-40
PCB-1248 (Aroclor 1248)	1830	1870	2	0-40
PCB-1254 (Aroclor 1254)	785	805	3	0-40
PCB-1260 (Aroclor 1260)	187J	196J		0-40

RPD: 0 out of 3 outside limits.

PCB - FORM III SVOA-3

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/30/2018

Instrument 40GCSK

Lab Sample ID: 40158029004

Duplicate Sample No: 40158029004DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718030.D

SDG No.: 40158017

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<56.8	<56.9		0-40
PCB-1221 (Aroclor 1221)	277	291	5	0-40
PCB-1232 (Aroclor 1232)	<56.8	<56.9		0-40
PCB-1242 (Aroclor 1242)	<56.8	<56.9		0-40
PCB-1248 (Aroclor 1248)	890	922	4	0-40
PCB-1254 (Aroclor 1254)	334	347	4	0-40
PCB-1260 (Aroclor 1260)	97.0J	102J		0-40

RPD: 0 out of 3 outside limits.

PCB - FORM III SVOA-4

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 04/30/2018

Instrument 40GCSK

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

Duplicate Sample No: 40158017020DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718025.D

SDG No.: 40158017

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<11.4		0-40
PCB-1221 (Aroclor 1221)	<11.4	<11.4		0-40
PCB-1232 (Aroclor 1232)	<11.4	<11.4		0-40
PCB-1242 (Aroclor 1242)	<11.4	<11.4		0-40
PCB-1248 (Aroclor 1248)	23.5J	21.8J		0-40
PCB-1254 (Aroclor 1254)	22.2J	20.0J		0-40
PCB-1260 (Aroclor 1260)	25.7J	24.0J		0-40

RPD: ____ out of __0__ outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/01/2018

Instrument 40GCSK

Lab Sample ID: 40157948007

Duplicate Sample No: 40157948007DUP

Date Analyzed: 05/07/2018

Lab File ID: 050718.B\050718037.D

SDG No.: 40158017

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<57.1	<65.5		0-40
PCB-1221 (Aroclor 1221)	<57.1	<65.5		0-40
PCB-1232 (Aroclor 1232)	<57.1	<65.5		0-40
PCB-1242 (Aroclor 1242)	<57.1	<65.5		0-40
PCB-1248 (Aroclor 1248)	1190	1200	1	0-40
PCB-1254 (Aroclor 1254)	685	694	1	0-40
PCB-1260 (Aroclor 1260)	120J	123J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/01/2018

Instrument 40GCSK

Lab Sample ID: SW1-170829-01-FALLF-01

Duplicate Sample No: 40158017006DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718047.D

SDG No.: 40158017

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<228	<228		0-40
PCB-1221 (Aroclor 1221)	<228	<228		0-40
PCB-1232 (Aroclor 1232)	<228	<228		0-40
PCB-1242 (Aroclor 1242)	<228	<228		0-40
PCB-1248 (Aroclor 1248)	3690	3260	13	0-40
PCB-1254 (Aroclor 1254)	2100	1840	13	0-40
PCB-1260 (Aroclor 1260)	320J	292J		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: 05/04/2018

Instrument 40GCSK

Lab Sample ID: 40157948006

Duplicate Sample No: 40157948006DUP

Date Analyzed: 05/10/2018

Lab File ID: 051018.B\051018008.D

SDG No.: 40158017

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<101	<83.9		0-40
PCB-1221 (Aroclor 1221)	<101	<83.9		0-40
PCB-1232 (Aroclor 1232)	<101	<83.9		0-40
PCB-1242 (Aroclor 1242)	<101	<83.9		0-40
PCB-1248 (Aroclor 1248)	2540	2510	1	0-40
PCB-1254 (Aroclor 1254)	1490	1470	1	0-40
PCB-1260 (Aroclor 1260)	216J	215J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/04/2018

Instrument 40GCSK

Lab Sample ID: 40158029012

Duplicate Sample No: 40158029012DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718095.D

SDG No.: 40158017

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<22.8	<32.5		0-40
PCB-1221 (Aroclor 1221)	113	122J		0-40
PCB-1232 (Aroclor 1232)	<22.8	<32.5		0-40
PCB-1242 (Aroclor 1242)	<22.8	<32.5		0-40
PCB-1248 (Aroclor 1248)	232	236	2	0-40
PCB-1254 (Aroclor 1254)	177	176	0	0-40
PCB-1260 (Aroclor 1260)	78.6J	82.9J		0-40

RPD: 0 out of 2 outside limits.

PCB - FORM III SVOA-3

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 05/04/2018

Instrument 40GCSK

Lab Sample ID: FD1-170829-01-MMSH-05

Duplicate Sample No: 40158017011DUP

Date Analyzed: 05/08/2018

Lab File ID: 050718.B\050718086.D

SDG No.: 40158017

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<11.4	<26.3		0-40
PCB-1221 (Aroclor 1221)	<11.4	<26.3		0-40
PCB-1232 (Aroclor 1232)	<11.4	<26.3		0-40
PCB-1242 (Aroclor 1242)	<11.4	<26.3		0-40
PCB-1248 (Aroclor 1248)	50.0J	53.1J		0-40
PCB-1254 (Aroclor 1254)	35.9J	38.1J		0-40
PCB-1260 (Aroclor 1260)	29.2J	37.2J		0-40

RPD: ____ out of __0__ outside limits.

SAMPLE NO.

1681428BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158017 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK Matrix: Tissue Lab Sample ID: 1681428

Lab File ID: 050718.B\050718006.D Date Analyzed: 05/07/2018 Time:14:38

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1681429LCS	1681429	050718.B\050718007.D	05/07/2018 14:54
1681911DUP	1681911	050718.B\050718010.D	05/07/2018 15:42
1681432DUP	1681432	050718.B\050718014.D	05/07/2018 16:45
SW3-170829-01-GOSH-01	40158017002	050718.B\050718019.D	05/07/2018 18:04
FD1-170829-01-GOSH-05	40158017016	050718.B\050718020.D	05/07/2018 18:20
FD1-170829-01-GOSH-04	40158017017	050718.B\050718021.D	05/07/2018 18:36
FD1-170829-01-GOSH-03	40158017018	050718.B\050718022.D	05/07/2018 18:52
FD1-170829-01-GOSH-02	40158017019	050718.B\050718023.D	05/07/2018 19:08
FD1-170829-01-GOSH-01	40158017020	050718.B\050718024.D	05/07/2018 19:23
1681433DUP	1681433	050718.B\050718025.D	05/07/2018 19:39
1681434DUP	1681434	050718.B\050718030.D	05/07/2018 20:58
SW3-170829-01-GOSH-02	40158017001	051018.B\051018005.D	05/10/2018 08:26

SAMPLE NO.

1681906BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158017 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK Matrix: Tissue Lab Sample ID: 1681906

Lab File ID: 050718.B\050718031.D Date Analyzed: 05/07/2018 Time:21:14

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1681907LCS	1681907	050718.B\050718032.D	05/07/2018 21:30
1681909DUP	1681909	050718.B\050718037.D	05/07/2018 22:49
SW2-170829-01-SPSH-02	40158017003	050718.B\050718043.D	05/08/2018 00:24
SW2-170829-01-SPSH-01	40158017004	050718.B\050718044.D	05/08/2018 00:40
SW1-170829-01-SPSH-01	40158017005	050718.B\050718045.D	05/08/2018 00:56
SW1-170829-01-FALLF-01	40158017006	050718.B\050718046.D	05/08/2018 01:12
1681910DUP	1681910	050718.B\050718047.D	05/08/2018 01:28
ND5-170829-01-SPSH-04	40158017007	050718.B\050718048.D	05/08/2018 01:44
ND5-170829-01-SPSH-03	40158017008	050718.B\050718049.D	05/08/2018 01:59
ND5-170829-01-SPSH-02	40158017009	050718.B\050718050.D	05/08/2018 02:15
ND5-170829-01-SPSH-01	40158017010	050718.B\050718051.D	05/08/2018 02:31

SAMPLE NO.

1683452BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40158017 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK Matrix: Tissue Lab Sample ID: 1683452

Lab File ID: 050718.B\050718080.D Date Analyzed: 05/08/2018 Time:15:07

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1683453LCS	1683453	050718.B\050718081.D	05/08/2018 15:23
FD1-170829-01-MMSH-05	40158017011	050718.B\050718084.D	05/08/2018 16:11
1683455MS	1683455	050718.B\050718085.D	05/08/2018 16:27
1683456DUP	1683456	050718.B\050718086.D	05/08/2018 16:42
FD1-170829-01-MMSH-04	40158017012	050718.B\050718087.D	05/08/2018 16:58
FD1-170829-01-MMSH-03	40158017013	050718.B\050718090.D	05/08/2018 17:46
FD1-170829-01-MMSH-02	40158017014	050718.B\050718091.D	05/08/2018 18:02
1683457DUP	1683457	050718.B\050718095.D	05/08/2018 19:06
1683454DUP	1683454	051018.B\051018008.D	05/10/2018 09:14
FD1-170829-01-MMSH-01	40158017015	051018.B\051018009.D	05/10/2018 09:30

SAMPLE NO.

SW3-170829-01-GOSH-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 40158017001
Date Analyzed: 05/10/2018 08:26
Lab File ID: 051018.B\051018005.D
Initial wt/vol: 9.9702 g Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSK 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)	339	
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)	880	
11097-69-1	PCB-1254 (Aroclor 1254)	347	
11096-82-5	PCB-1260 (Aroclor 1260)	93.9	J
1336-36-3	PCB, Total	1660	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018005.D
Lab Smp Id: 40158017001 Client Smp ID: SW3-170829-01-GOSH-
Inj Date : 10-MAY-2018 08:26
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017001 x4,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 5
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) * CpndVar

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.970	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.202	32964	28741	0.872	0.07		
1.817	41233	40685	0.987	0.09		
1.850	29942	24206	0.808	0.06	1 Aroclor 1221	BA
2.058	25282	19324	0.764	0.05		
2.472	369105	294997	0.799	0.83	1 Aroclor 1221	BA
2.547	3069760	3094172	1.008	6.92	$ 2 Tetrachloro-m-xylene	BA
2.748	25447	22684	0.891	0.05	1 Aroclor 1221	BA
2.857	54126	44325	0.819	0.12	1 Aroclor 1221	BA
2.920	153886	140813	0.915	0.34	1 Aroclor 1221	BA
3.061	26953	28146	1.044	0.06		
3.091	71669	72690	1.014	0.16		
3.127	392288	372786	0.950	0.88		
3.393	258588	250351	0.968	0.58		
3.420	276269	259347	0.939	0.62		
3.511	490492	479114	0.977	1.10		
3.597	391882	358358	0.914	0.88		
3.723	70087	57806	0.825	0.15		
3.810	436553	434222	0.995	0.98		
3.835	178160	161647	0.907	0.40		
3.893	878564	967352	1.101	1.98		
3.906	875256	858936	0.981	1.97		
4.020	441529	362898	0.822	0.99		
4.075	320044	276482	0.864	0.72		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.141	179600	160186	0.892	0.40	
4.219	36774	32528	0.885	0.08	
4.296	1903143	1715945	0.902	4.29	
4.343	1948285	1850961	0.950	4.39	6 Aroclor 1248
4.375	1959414	1626301	0.830	4.42	
4.430	38616	28111	0.728	0.08	
4.501	745127	714105	0.958	1.68	
4.536	608171	536862	0.883	1.37	
4.598	47667	48862	1.025	0.10	
4.630	1267472	1210029	0.955	2.86	6 Aroclor 1248
4.672	149801	133536	0.891	0.33	
4.702	170725	157042	0.920	0.38	
4.764	107778	94675	0.878	0.24	
4.820	138699	96066	0.693	0.31	
4.852	249463	234766	0.941	0.56	
4.897	941416	908411	0.965	2.12	6 Aroclor 1248
4.932	864965	833218	0.963	1.95	
4.964	2143363	1295119	0.604	4.83	6 Aroclor 1248
5.042	401630	351013	0.874	0.90	
5.123	854095	775412	0.908	1.92	6 Aroclor 1248
5.186	701503	634451	0.904	1.58	
5.246	1179721	1028119	0.871	2.66	7 Aroclor 1254
5.297	976166	867475	0.889	2.20	
5.368	88499	86460	0.977	0.19	
5.394	204813	167514	0.818	0.46	
5.449	272284	249133	0.915	0.61	
5.493	800212	727899	0.910	1.80	7 Aroclor 1254
5.534	655567	586992	0.895	1.47	
5.571	78227	99125	1.267	0.17	
5.596	1387153	1217808	0.878	3.13	7 Aroclor 1254
5.664	56127	46721	0.832	0.12	
5.691	190590	172347	0.904	0.43	
5.762	282470	256006	0.906	0.63	
5.798	186501	145191	0.778	0.42	
5.828	271234	198684	0.733	0.61	
5.876	1719385	1399230	0.814	3.88	
5.973	162460	123013	0.757	0.36	
6.017	132947	94994	0.715	0.30	
6.080	257265	236752	0.920	0.58	
6.113	723874	637818	0.881	1.63	7 Aroclor 1254
6.142	1046801	934640	0.893	2.36	
6.255	216479	155596	0.719	0.48	
6.315	89676	93554	1.043	0.20	
6.329	122587	110669	0.903	0.27	
6.388	1368740	1153558	0.843	3.08	7 Aroclor 1254
6.420	128254	115364	0.899	0.28	
6.461	63724	55897	0.877	0.14	
6.518	147006	107143	0.729	0.33	
6.598	261388	250968	0.960	0.58	
6.624	297403	266964	0.898	0.67	
6.649	87953	88054	1.001	0.19	
6.692	48942	46438	0.949	0.11	
6.746	22126	19771	0.894	0.04	
6.806	113206	94605	0.836	0.25	
6.848	126685	110344	0.871	0.28	
6.890	188628	166208	0.881	0.42	
6.927	87026	61887	0.711	0.19	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.996	21954	17972	0.819	0.04	
7.032	115601	95155	0.823	0.26	
7.092	399519	351483	0.880	0.90	8 Aroclor 1260
7.123	46101	35907	0.779	0.10	
7.197	109373	46541	0.426	0.24	
7.267	31818	15517	0.488	0.07	
7.339	221623	194995	0.880	0.50	8 Aroclor 1260
7.370	106787	72709	0.681	0.24	
7.426	64721	32707	0.505	0.14	
7.478	126098	115660	0.917	0.28	
7.530	209663	152457	0.727	0.47	8 Aroclor 1260
7.632	24812	20267	0.817	0.05	
7.671	24429	16105	0.659	0.05	
7.745	18454	16202	0.878	0.04	
7.783	62811	50441	0.803	0.14	
7.816	56529	48408	0.856	0.12	
7.840	93733	51432	0.549	0.21	
7.889	44218	24723	0.559	0.09	
7.987	166949	137335	0.823	0.37	8 Aroclor 1260
8.049	20224	13680	0.676	0.04	
8.363	128240	116501	0.908	0.28	
8.440	80174	47184	0.589	0.18	
8.504	22073	17836	0.808	0.04	
8.660	3437661	2995721	0.871	8.27	$ 12 Decachlorobiphenyl
9.001	114886	68621	0.597	0.25	
9.260	20950	17742	0.847	0.04	
9.527	126933	77275	0.609	0.28	
	44306241	39111198		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018005.D
Lab Smp Id: 40158017001 Client Smp ID: SW3-170829-01-GOSH-
Inj Date : 10-MAY-2018 08:26
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017001 x4,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 5
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) * CpndVar

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.970	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.850	1.853	-0.003	29941	0.03023	61	0.00- 20.00	100.00(M)	BA
2.472	2.471	0.001	369104	0.70014	1400	0.00- 20.00	1232.77	BA
2.747	2.758	-0.011	25446	0.01835	37	0.00- 20.00	84.99	BA
2.857	2.860	-0.003	54126	0.04905	98	0.00- 20.00	180.78	BA
2.919	2.923	-0.004	153886	0.04603	92	0.00- 20.00	513.96	BA
Average of Peak Concentrations =					340			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.546	2.549	-0.003	3069759	0.02549	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			
4.343	4.343	0.000	1948284	0.81677	1600	0.00- 20.00	100.00(M)	BA
4.629	4.630	-0.001	1267471	0.29841	600	0.00- 20.00	65.06	BA
4.897	4.898	-0.001	941415	0.46215	930	0.00- 20.00	48.32	BA
4.963	4.963	0.000	2143363	0.39131	780	0.00- 20.00	110.01	BA
5.123	5.123	0.000	854095	0.22576	450	0.00- 20.00	43.84	BA
Average of Peak Concentrations =					880			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1179720	0.20918	420	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	800211	0.17158	340	0.00- 20.00	67.83	BA
5.596	5.596	0.000	1387152	0.16201	320	0.00- 20.00	117.58	BA
6.113	6.113	0.000	723873	0.13625	270	0.00- 20.00	61.36	BA
6.388	6.387	0.001	1368740	0.18696	380	0.00- 20.00	116.02	BA
Average of Peak Concentrations =					350			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.091	7.090	0.001	399518	0.03395	68	0.00- 20.00	29.19	BA
7.339	7.338	0.001	221623	0.03918	78	0.00- 20.00	16.19	BA
7.529	7.529	0.000	209662	0.06133	120	0.00- 20.00	15.32	BA
7.987	7.987	0.000	166948	0.05271	100	0.00- 20.00	12.20	BA
Average of Peak Concentrations =					94			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.659	8.657	0.002	3437661	0.02581	52			

QC Flag Legend

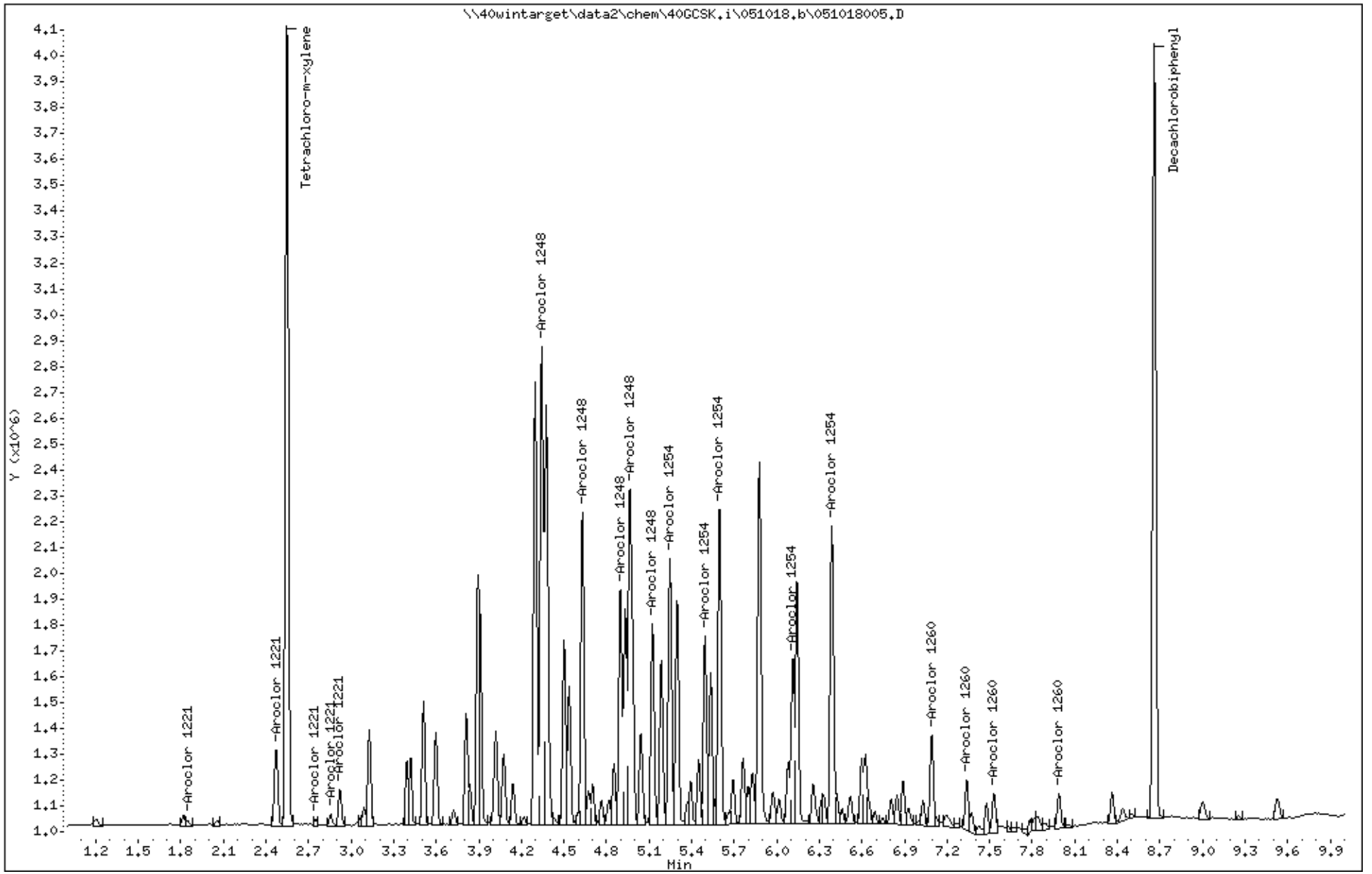
M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b\051018005.D
Date : 10-MAY-2018 08:26
Client ID: SW3-170829-01-GOSH-
Sample Info: 40158017001 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



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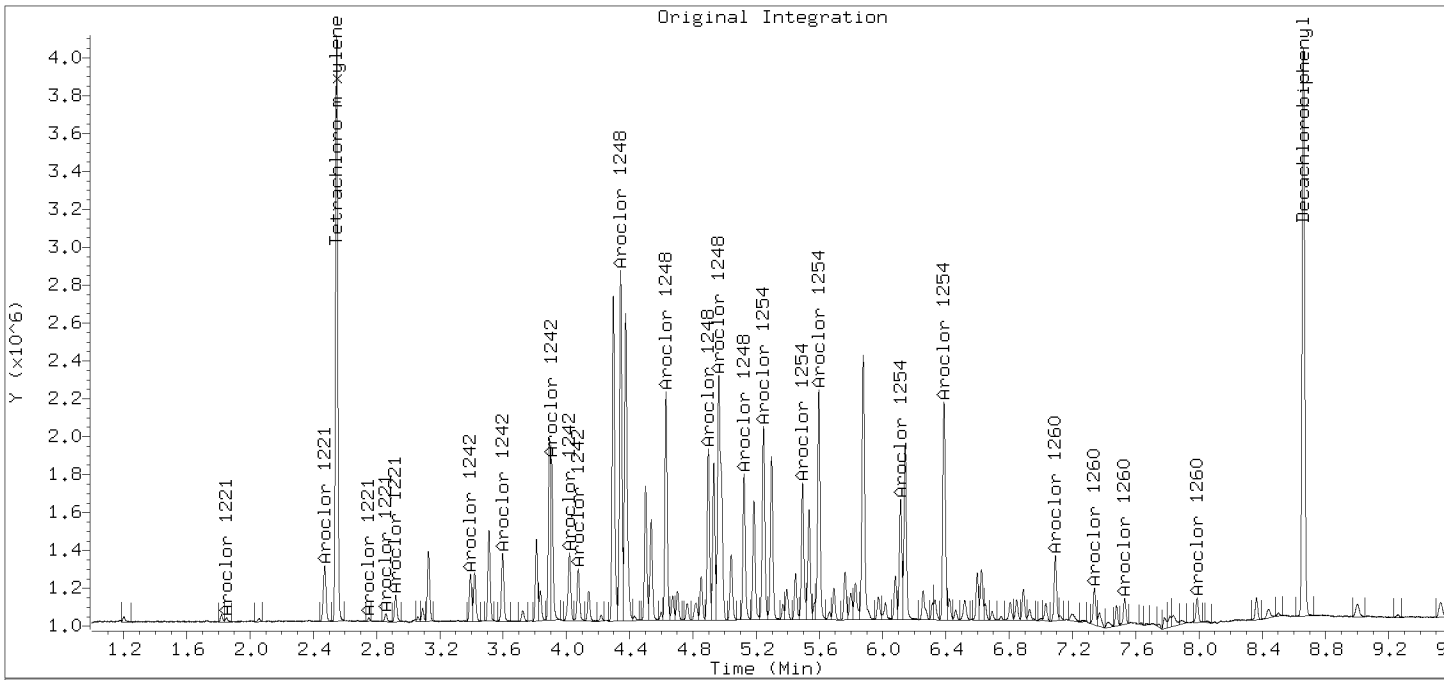
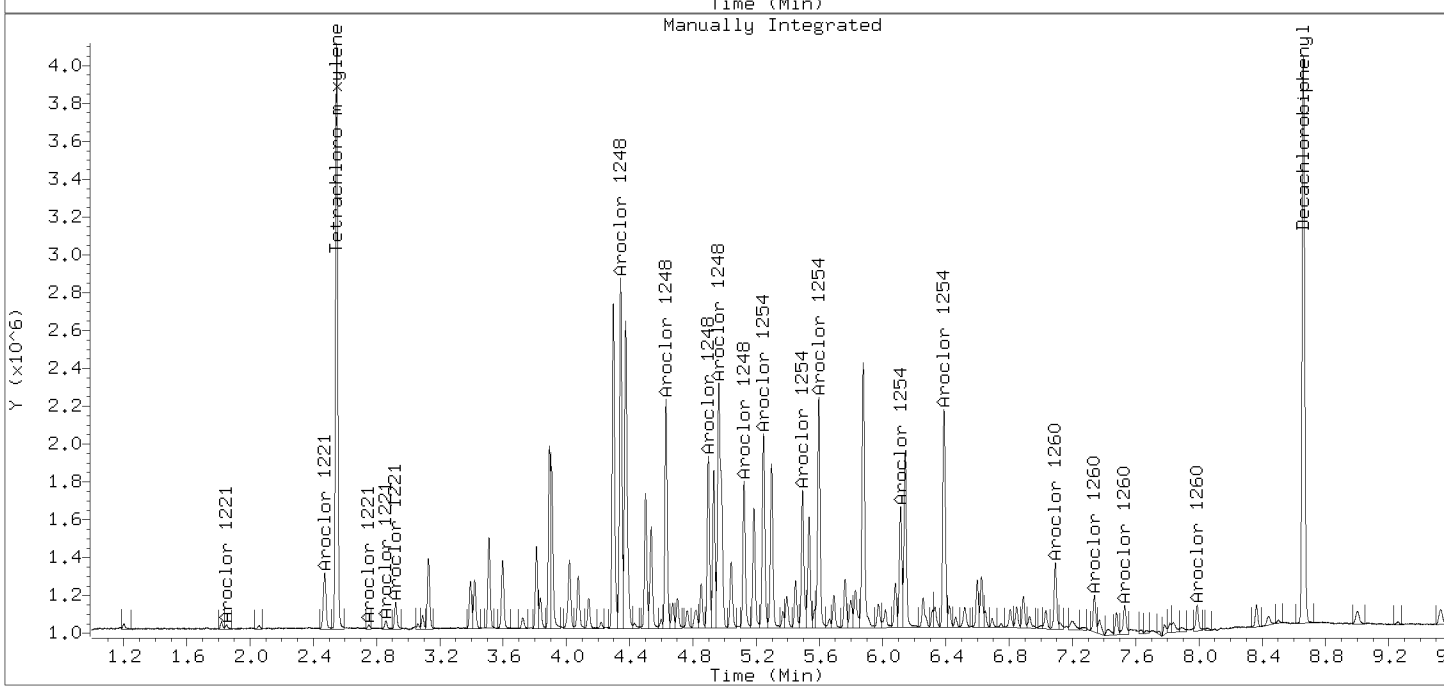
Injection Date: 10-MAY-2018 08:26 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	258587	0	
Aroclor 1016	258587	0	
Aroclor 1016	258587	0	
Aroclor 1016	258587	0	
Aroclor 1016	258587	0	
Aroclor 1221	25865	29941	BA
Aroclor 1221	25865	29941	BA
Aroclor 1221	25865	29941	BA
Aroclor 1221	25865	29941	BA
Aroclor 1221	25865	29941	BA
Aroclor 1232	146719	0	
Aroclor 1232	146719	0	
Aroclor 1232	146719	0	
Aroclor 1232	146719	0	

Aroclor 1232	146719	0	
Aroclor 1242	258587	0	
Aroclor 1242	258587	0	
Aroclor 1242	258587	0	
Aroclor 1242	258587	0	
Aroclor 1242	258587	0	
Aroclor 1248	1935933	1948284	BA
Aroclor 1248	1935933	1948284	BA
Aroclor 1248	1935933	1948284	BA
Aroclor 1248	1935933	1948284	BA
Aroclor 1248	1935933	1948284	BA
Aroclor 1254	1160542	1179720	BA
Aroclor 1254	1160542	1179720	BA
Aroclor 1254	1160542	1179720	BA
Aroclor 1254	1160542	1179720	BA
Aroclor 1254	1160542	1179720	BA
Aroclor 1260	1361690	0	BA
Aroclor 1260	1361690	0	BA
Aroclor 1260	1361690	0	BA
Aroclor 1260	1361690	0	BA
Aroclor 1260	1361690	0	BA
Tetrachloro-m-xylene	3044684	3069759	BA
Decachlorobiphenyl	3437661	3437661	

==========

SAMPLE NO.

SW3-170829-01-GOSH-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 40158017002
Date Analyzed: 05/07/2018 18:04
Lab File ID: 050718.B\050718019.D
Initial wt/vol: 9.9957 g Final wt/vol: 5 mL Dilution: 3
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<34.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	176	
11141-16-5	PCB-1232 (Aroclor 1232)	<34.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	<34.2	U
12672-29-6	PCB-1248 (Aroclor 1248)	557	
11097-69-1	PCB-1254 (Aroclor 1254)	302	
11096-82-5	PCB-1260 (Aroclor 1260)	78.5	J
1336-36-3	PCB, Total	1110	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718019.D
Lab Smp Id: 40158017002 Client Smp ID: SW3-170829-01-GOSH-
Inj Date : 07-MAY-2018 18:04
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017002 x3,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 19
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.996	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.204	63899	54596	0.854	0.14		
1.822	118556	120767	1.019	0.26		
1.854	22984	21342	0.929	0.05	1 Aroclor 1221	BA
2.061	48659	34051	0.700	0.11		
2.190	14572	10843	0.744	0.03		
2.476	254190	196298	0.772	0.57	1 Aroclor 1221	BA
2.550	3656196	3668110	1.003	8.31	$ 2 Tetrachloro-m-xylene	BA
2.753	22036	16785	0.762	0.05	1 Aroclor 1221	BA
2.863	38120	31015	0.814	0.08	1 Aroclor 1221	BA
2.925	101335	87483	0.863	0.23	1 Aroclor 1221	BA
3.093	54271	51592	0.951	0.12		
3.130	260421	248986	0.956	0.59		
3.396	172384	166189	0.964	0.39		
3.423	164087	146678	0.894	0.37		
3.513	351782	336110	0.955	0.80		
3.600	253461	232904	0.919	0.57		
3.726	45834	39603	0.864	0.10		
3.812	293640	277122	0.944	0.66		
3.838	113868	102805	0.903	0.25		
3.896	466987	539792	1.156	1.06		
3.909	613374	550233	0.897	1.39		
4.021	339824	282007	0.830	0.77		
4.078	214816	177939	0.828	0.48		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.142	131645	122980	0.934	0.29	
4.221	29078	24538	0.844	0.06	
4.298	1546129	1396244	0.903	3.51	
4.345	1601131	1512643	0.945	3.64	6 Aroclor 1248
4.376	1556004	1298989	0.835	3.53	
4.431	32152	21644	0.673	0.07	
4.501	588182	557874	0.948	1.33	
4.537	507266	442101	0.872	1.15	
4.599	250551	261897	1.045	0.56	
4.631	1048347	972434	0.928	2.38	6 Aroclor 1248
4.673	135310	114536	0.846	0.30	
4.703	147905	131700	0.890	0.33	
4.764	97925	82409	0.842	0.22	
4.820	107906	81287	0.753	0.24	
4.854	218356	198733	0.910	0.49	
4.898	802929	770977	0.960	1.82	6 Aroclor 1248
4.933	596175	553475	0.928	1.35	
4.965	1968575	1109547	0.564	4.47	6 Aroclor 1248
5.043	412526	354309	0.859	0.93	
5.124	701666	640536	0.913	1.59	6 Aroclor 1248
5.186	744267	672844	0.904	1.69	
5.246	1318842	1164451	0.883	2.99	7 Aroclor 1254
5.297	1021863	891530	0.872	2.32	
5.369	89995	86188	0.958	0.20	
5.394	205051	168641	0.822	0.46	
5.449	320013	287298	0.898	0.72	
5.493	845233	765589	0.906	1.92	7 Aroclor 1254
5.533	827576	714383	0.863	1.88	
5.567	113776	116181	1.021	0.25	
5.596	1627759	1426114	0.876	3.70	7 Aroclor 1254
5.662	62248	56944	0.915	0.14	
5.690	214346	184254	0.860	0.48	
5.761	327298	293763	0.898	0.74	
5.797	216445	168357	0.778	0.49	
5.827	313585	234065	0.746	0.71	
5.876	2025692	1571802	0.776	4.60	
5.973	199482	138963	0.697	0.45	
6.016	140214	104583	0.746	0.31	
6.078	327102	305723	0.935	0.74	
6.112	858965	751744	0.875	1.95	7 Aroclor 1254
6.141	1270115	1099245	0.865	2.88	
6.254	275764	188521	0.684	0.62	
6.313	98792	113282	1.147	0.22	
6.327	182977	146314	0.800	0.41	
6.386	1761732	1482051	0.841	4.00	7 Aroclor 1254
6.420	183673	159401	0.868	0.41	
6.460	89464	69571	0.778	0.20	
6.518	168353	128542	0.764	0.38	
6.596	368194	333911	0.907	0.83	
6.623	366662	328776	0.897	0.83	
6.646	112056	110495	0.986	0.25	
6.691	65332	58449	0.895	0.14	
6.747	25859	24864	0.962	0.05	
6.805	148728	126033	0.847	0.33	
6.845	171036	150115	0.878	0.38	
6.887	244845	211069	0.862	0.55	
6.927	114596	78827	0.688	0.26	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.998	34467	24088	0.699	0.07	
7.029	139765	116896	0.836	0.31	
7.090	488997	434845	0.889	1.11	8 Aroclor 1260
7.122	70342	49018	0.697	0.16	
7.269	25279	15586	0.617	0.05	
7.337	267178	235816	0.883	0.60	8 Aroclor 1260
7.368	122926	87556	0.712	0.27	
7.421	50983	30544	0.599	0.11	
7.447	16270	19942	1.226	0.03	
7.475	178903	162544	0.909	0.40	
7.528	249824	175085	0.701	0.56	8 Aroclor 1260
7.664	18714	15129	0.808	0.04	
7.699	25576	15366	0.601	0.05	
7.776	62735	58942	0.940	0.14	
7.813	70366	52383	0.744	0.16	
7.834	44852	29609	0.660	0.10	
7.985	149727	130124	0.869	0.34	8 Aroclor 1260
8.050	16660	12238	0.735	0.03	
8.133	10590	8023	0.758	0.02	
8.359	146156	135511	0.927	0.33	
8.439	39439	23561	0.597	0.08	
8.656	4011542	3450923	0.860	9.69	$ 12 Decachlorobiphenyl
8.999	44588	28227	0.633	0.10	
9.254	24228	19612	0.809	0.05	
9.525	38356	28835	0.752	0.08	
	43961446	38315389		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718019.D
Lab Smp Id: 40158017002 Client Smp ID: SW3-170829-01-GOSH-
Inj Date : 07-MAY-2018 18:04
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017002 x3,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 19
Dil Factor: 3.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.996	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			
1.853	1.853	0.000	22983	0.02321	35	0.00- 20.00	100.00(M)	BA
2.475	2.471	0.004	254189	0.48216	720	0.00- 20.00	1105.99	BA
2.752	2.758	-0.006	22036	0.01589	24	0.00- 20.00	95.88	BA
2.863	2.860	0.003	38119	0.03454	52	0.00- 20.00	165.86	BA
2.924	2.923	0.001	101335	0.03031	45	0.00- 20.00	440.91	BA
Average of Peak Concentrations =					180			
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	3656196	0.03036	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			
4.344	4.343	0.001	1601131	0.67124	1000	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1048346	0.24682	370	0.00- 20.00	65.48	BA
4.897	4.898	-0.001	802929	0.39416	590	0.00- 20.00	50.15	BA
4.965	4.963	0.002	1968575	0.35940	540	0.00- 20.00	122.95	BA
5.123	5.123	0.000	701665	0.18547	280	0.00- 20.00	43.82	BA
Average of Peak Concentrations =					560			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1318842	0.23385	350	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	845233	0.18123	270	0.00- 20.00	64.09	BA
5.596	5.596	0.000	1627758	0.19011	280	0.00- 20.00	123.42	BA
6.112	6.113	-0.001	858965	0.16168	240	0.00- 20.00	65.13	BA
6.386	6.387	-0.001	1761731	0.24064	360	0.00- 20.00	133.58	BA
Average of Peak Concentrations =					300			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.089	7.090	-0.001	488997	0.04155	62	0.00- 20.00	27.76	BA
7.337	7.338	-0.001	267178	0.04724	71	0.00- 20.00	15.17	BA
7.527	7.529	-0.002	249823	0.07307	110	0.00- 20.00	14.18	BA
7.984	7.987	-0.003	149726	0.04728	71	0.00- 20.00	8.50	BA
Average of Peak Concentrations =					78			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	4011541	0.03012	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\40GCSK.i\050718.b\050718019.D

Date : 07-MAY-2018 18:04

Client ID: SW3-170829-01-GOSH-

Instrument: 40GCSK.i

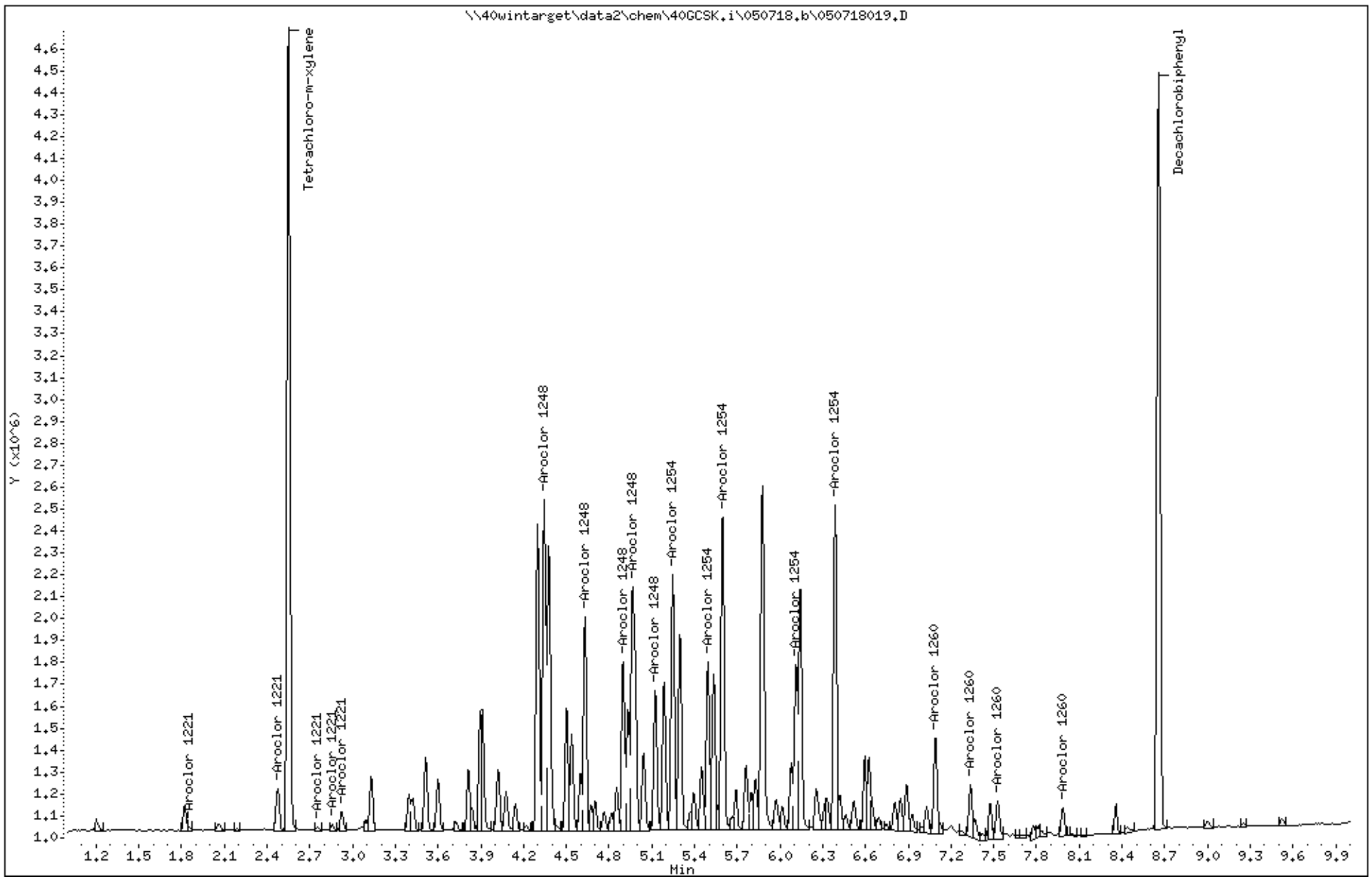
Sample Info: 40158017002 x3,

Volume Injected (uL): 1.0

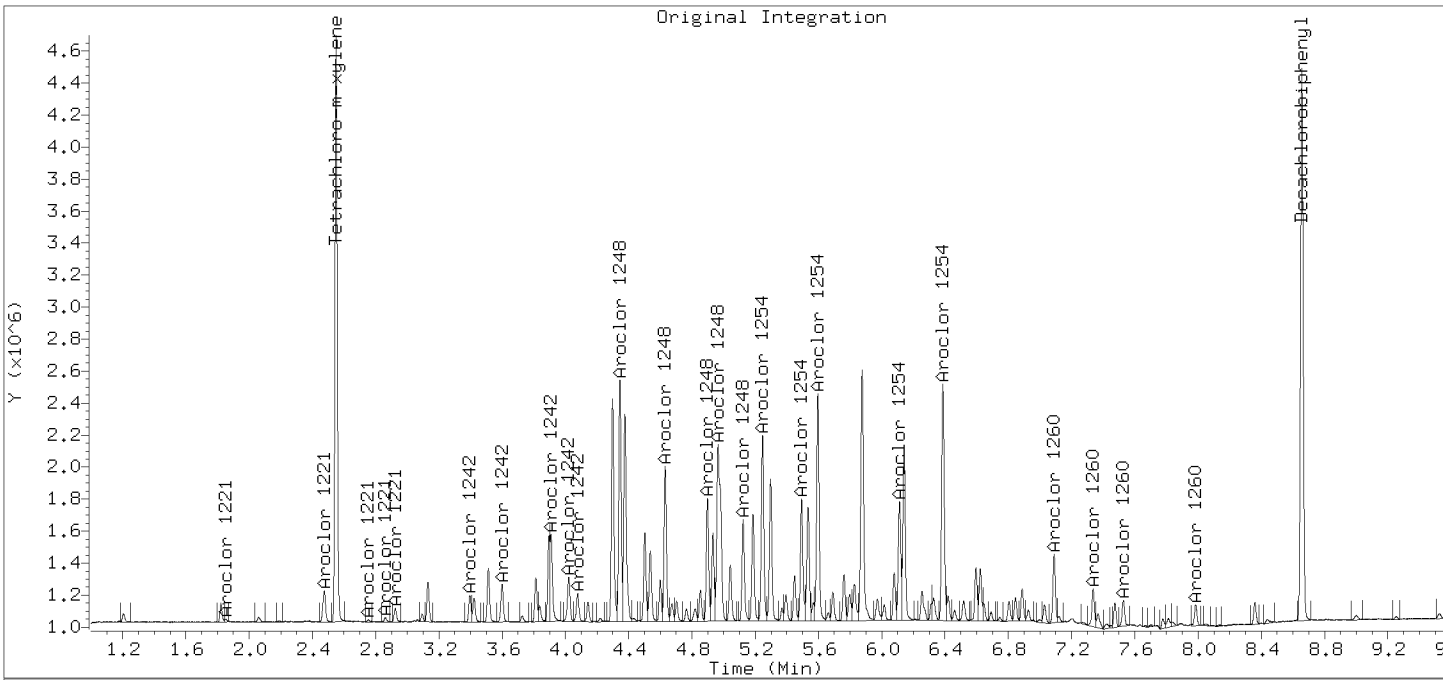
Operator: BLM

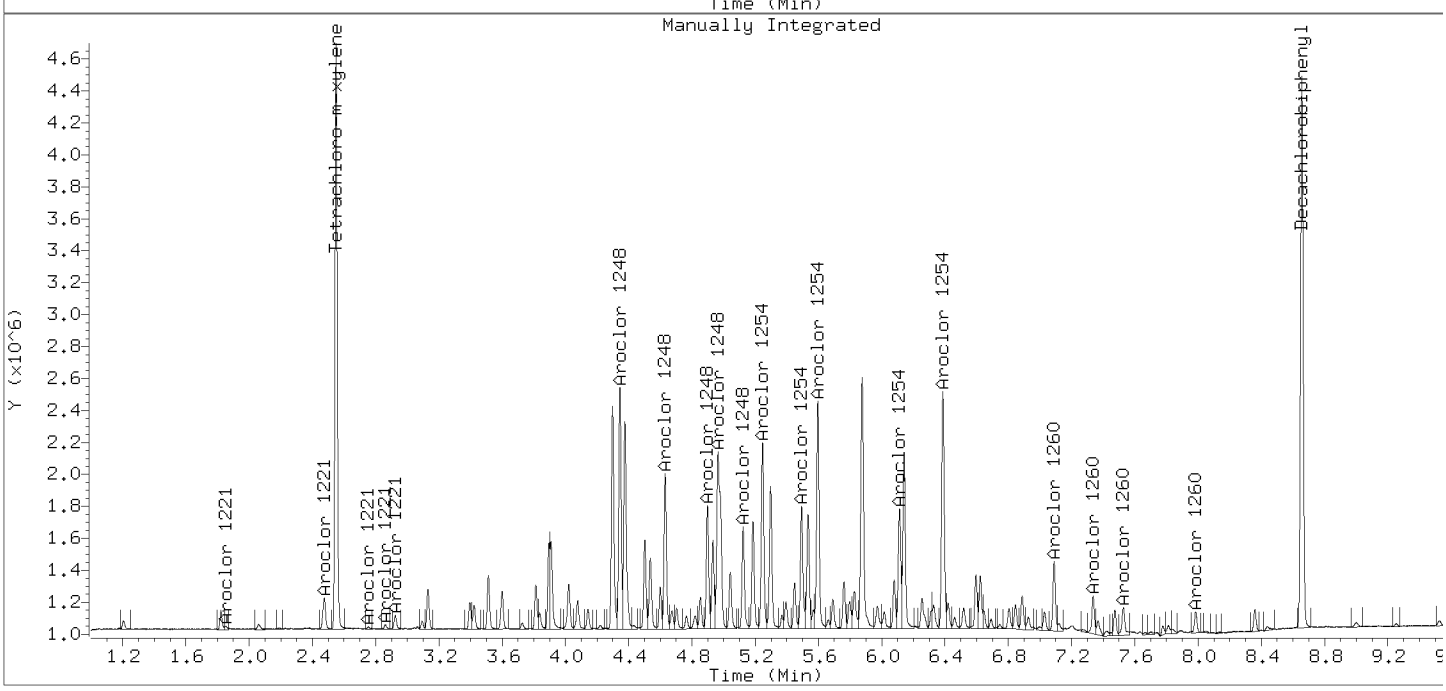
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 18:04 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017002





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	171823	0	BA
Aroclor 1016	171823	0	BA
Aroclor 1016	171823	0	BA
Aroclor 1016	171823	0	BA
Aroclor 1016	171823	0	BA
Aroclor 1221	14939	22983	BA
Aroclor 1221	14939	22983	BA
Aroclor 1221	14939	22983	BA
Aroclor 1221	14939	22983	BA
Aroclor 1221	14939	22983	BA
Aroclor 1232	94642	0	BA
Aroclor 1232	94642	0	BA
Aroclor 1232	94642	0	BA
Aroclor 1232	94642	0	BA

Aroclor 1232	94642	0	BA
Aroclor 1242	171823	0	BA
Aroclor 1242	171823	0	BA
Aroclor 1242	171823	0	BA
Aroclor 1242	171823	0	BA
Aroclor 1242	171823	0	BA
Aroclor 1248	1592646	1601131	BA
Aroclor 1248	1592646	1601131	BA
Aroclor 1248	1592646	1601131	BA
Aroclor 1248	1592646	1601131	BA
Aroclor 1248	1592646	1601131	BA
Aroclor 1254	1304160	1318842	BA
Aroclor 1254	1304160	1318842	BA
Aroclor 1254	1304160	1318842	BA
Aroclor 1254	1304160	1318842	BA
Aroclor 1254	1304160	1318842	BA
Aroclor 1260	1745798	0	BA
Aroclor 1260	1745798	0	BA
Aroclor 1260	1745798	0	BA
Aroclor 1260	1745798	0	BA
Aroclor 1260	1745798	0	BA
Tetrachloro-m-xylene	3625502	3656196	BA
Decachlorobiphenyl	4011541	4011541	

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SAMPLE NO.

SW2-170829-01-SPSH-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40158017003
Date Analyzed: 05/08/2018 00:24
Lab File ID: 050718.B\050718043.D
Initial wt/vol: 10.0244 Final wt/vol: 5 mL Dilution: 5
Instrument: 40GCSK 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)	730	
11097-69-1	PCB-1254 (Aroclor 1254)	523	
11096-82-5	PCB-1260 (Aroclor 1260)	186	J
1336-36-3	PCB, Total	1440	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718043.D
Lab Smp Id: 40158017003 Client Smp ID: SW2-170829-01-SPSH-
Inj Date : 08-MAY-2018 00:24
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017003 x5,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 43
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) * CpndVar

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.024	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.476	74518	64314	0.863	0.19		
2.550	2104159	2158777	1.026	5.53	$ 2 Tetrachloro-m-xylene	
2.859	17916	14520	0.810	0.04		
2.925	38601	27539	0.713	0.10		
3.063	21290	17851	0.838	0.05		
3.094	26359	23087	0.876	0.06		
3.131	70849	66871	0.944	0.18		
3.395	20902	18031	0.863	0.05		
3.423	34604	32244	0.932	0.09		
3.514	74609	65053	0.872	0.19		
3.599	43003	39549	0.920	0.11		
3.723	36940	28269	0.765	0.09		
3.812	226922	216901	0.956	0.59		
3.837	92234	85583	0.928	0.24		
3.896	790155	474762	0.601	2.08		
4.021	79705	46546	0.584	0.20		
4.077	144675	128563	0.889	0.38		
4.142	82232	76800	0.934	0.21		
4.298	1223822	1135523	0.928	3.22		
4.344	1206923	1154460	0.957	3.17	6 Aroclor 1248	BA
4.376	1187594	1025620	0.864	3.12		
4.431	27523	17816	0.647	0.07		
4.502	534027	514553	0.964	1.40		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.537	456145	402058	0.881	1.20	
4.631	780210	752311	0.964	2.05	6 Aroclor 1248
4.671	83961	77117	0.918	0.22	
4.703	129645	115413	0.890	0.34	
4.764	87657	77067	0.879	0.23	
4.818	111615	76467	0.685	0.29	
4.853	172276	163428	0.949	0.45	
4.898	590238	565119	0.957	1.55	6 Aroclor 1248
4.933	704128	654482	0.929	1.85	
4.964	1756779	944837	0.538	4.62	6 Aroclor 1248
5.043	413346	350640	0.848	1.08	
5.123	620254	581062	0.937	1.63	6 Aroclor 1248
5.186	724810	663929	0.916	1.90	
5.247	1314859	1152816	0.877	3.46	7 Aroclor 1254
5.297	936774	857057	0.915	2.46	
5.370	95317	88476	0.928	0.25	
5.395	187877	159078	0.847	0.49	
5.449	407756	374442	0.918	1.07	
5.493	859687	787880	0.916	2.26	7 Aroclor 1254
5.533	612339	544751	0.890	1.61	
5.566	142428	132068	0.927	0.37	
5.596	1620588	1448608	0.894	4.26	7 Aroclor 1254
5.662	63217	51405	0.813	0.16	
5.690	218490	196558	0.900	0.57	
5.761	338678	314638	0.929	0.89	
5.796	284975	222175	0.780	0.75	
5.827	288672	223034	0.773	0.75	
5.875	2039862	1585614	0.777	5.37	
5.970	190558	147992	0.777	0.50	
6.015	137964	109267	0.792	0.36	
6.078	342515	310950	0.908	0.90	
6.113	942665	816089	0.866	2.48	7 Aroclor 1254
6.140	1427635	1205914	0.845	3.75	
6.254	386038	264411	0.685	1.01	
6.315	130175	136978	1.052	0.34	
6.329	199613	162482	0.814	0.52	
6.386	1935001	1628978	0.842	5.09	7 Aroclor 1254
6.420	213061	193479	0.908	0.56	
6.461	100307	86955	0.867	0.26	
6.518	175397	144650	0.825	0.46	
6.596	434018	408412	0.941	1.14	
6.623	379140	348830	0.920	0.99	
6.647	149039	145033	0.973	0.39	
6.690	75676	71079	0.939	0.19	
6.746	40395	36816	0.911	0.10	
6.805	252814	228019	0.902	0.66	
6.845	219616	196408	0.894	0.57	
6.888	300232	268153	0.893	0.79	
6.926	143208	101742	0.710	0.37	
6.999	39754	34685	0.872	0.10	
7.028	160505	129476	0.807	0.42	
7.089	693263	621191	0.896	1.82	8 Aroclor 1260
7.120	51185	63005	1.231	0.13	
7.208	89705	46956	0.523	0.23	
7.336	347175	310924	0.896	0.91	8 Aroclor 1260
7.366	147869	106164	0.718	0.38	
7.423	60834	32288	0.531	0.16	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.474	247521	230732	0.932	0.65	
7.526	343927	274445	0.798	0.90	8 Aroclor 1260
7.635	33711	23305	0.691	0.08	
7.667	20952	15534	0.741	0.05	
7.743	25184	25811	1.025	0.06	
7.780	95636	83979	0.878	0.25	
7.811	124790	80158	0.642	0.32	
7.886	61934	32610	0.527	0.16	
7.985	245888	196511	0.799	0.64	8 Aroclor 1260
8.046	27751	17738	0.639	0.07	
8.361	241268	219236	0.909	0.63	
8.436	11894	10665	0.897	0.03	
8.656	2446025	2133782	0.872	6.87	$ 12 Decachlorobiphenyl
9.000	30064	20266	0.674	0.07	
9.255	21403	17354	0.811	0.05	
9.524	38082	23626	0.620	0.10	
	37983528	32758840		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718043.D
Lab Smp Id: 40158017003 Client Smp ID: SW2-170829-01-SPSH-
Inj Date : 08-MAY-2018 00:24
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017003 x5,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 43
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) * CpndVar

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.024	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	2104159	0.01747	44			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.343	4.343	0.000	1206923	0.50597	1300	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	780210	0.18369	460	0.00- 20.00	64.64	BA
4.897	4.898	-0.001	590237	0.28975	720	0.00- 20.00	48.90	BA
4.964	4.963	0.001	1756778	0.32073	800	0.00- 20.00	145.56	BA
5.123	5.123	0.000	620253	0.16395	410	0.00- 20.00	51.39	BA
Average of Peak Concentrations =					730			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1314858	0.23315	580	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	859686	0.18433	460	0.00- 20.00	65.38	BA
5.595	5.596	-0.001	1620587	0.18928	470	0.00- 20.00	123.25	BA
6.112	6.113	-0.001	942664	0.17743	440	0.00- 20.00	71.69	BA
6.386	6.387	-0.001	1935000	0.26430	660	0.00- 20.00	147.16	BA
Average of Peak Concentrations =					520			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.088	7.090	-0.002	693262	0.05890	150	0.00- 20.00	38.42	CO
7.336	7.338	-0.002	347174	0.06138	150	0.00- 20.00	17.94	CO
7.526	7.529	-0.003	343927	0.10060	250	0.00- 20.00	17.77	CO
7.984	7.987	-0.003	245888	0.07764	190	0.00- 20.00	12.71	CO
Average of Peak Concentrations =					190			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	2446024	0.01836	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\40GCSK.i\050718.b\050718043.D

Date : 08-MAY-2018 00:24

Client ID: SW2-170829-01-SPSH-

Instrument: 40GCSK.i

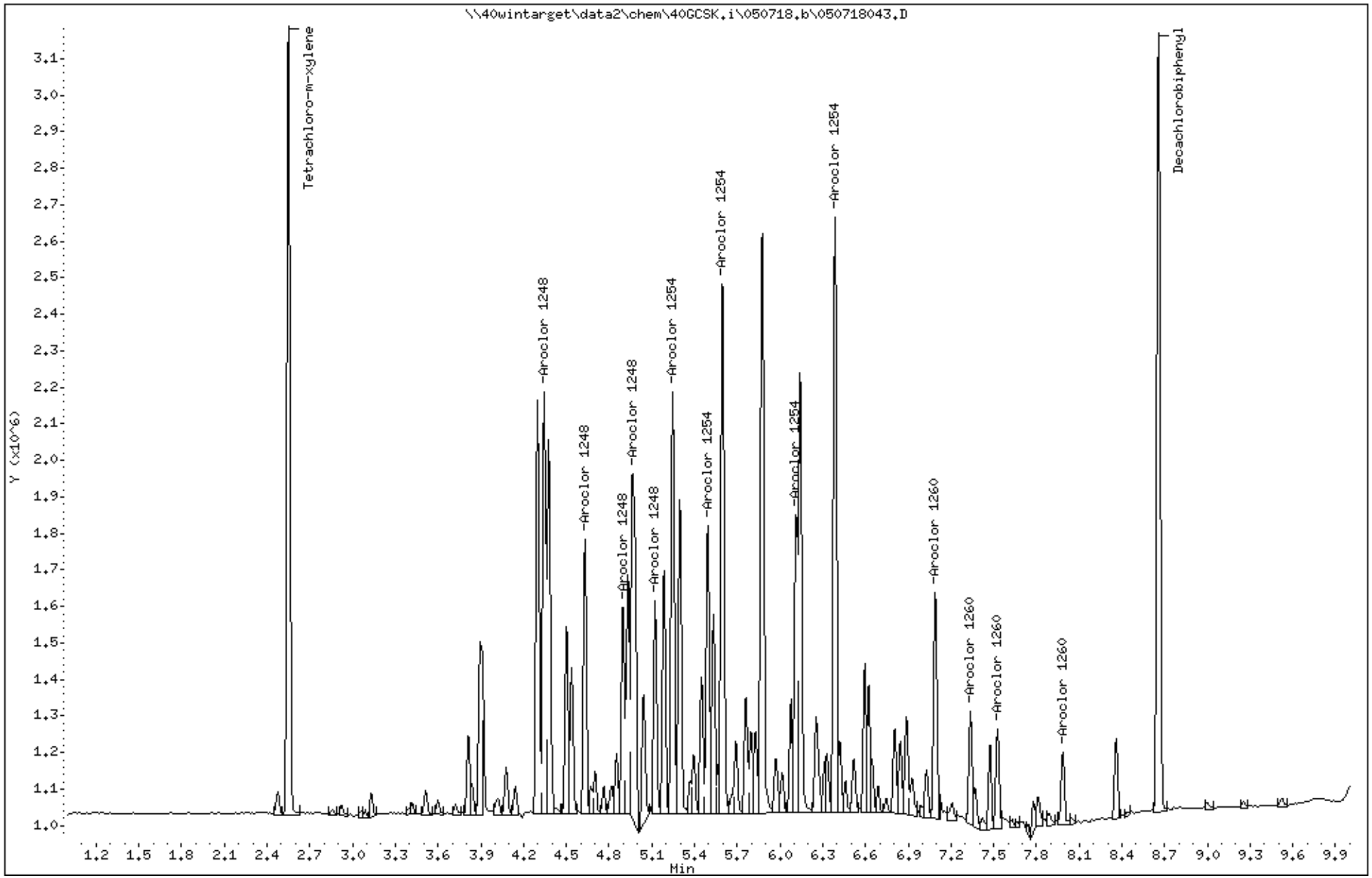
Sample Info: 40158017003 x5,

Volume Injected (uL): 1.0

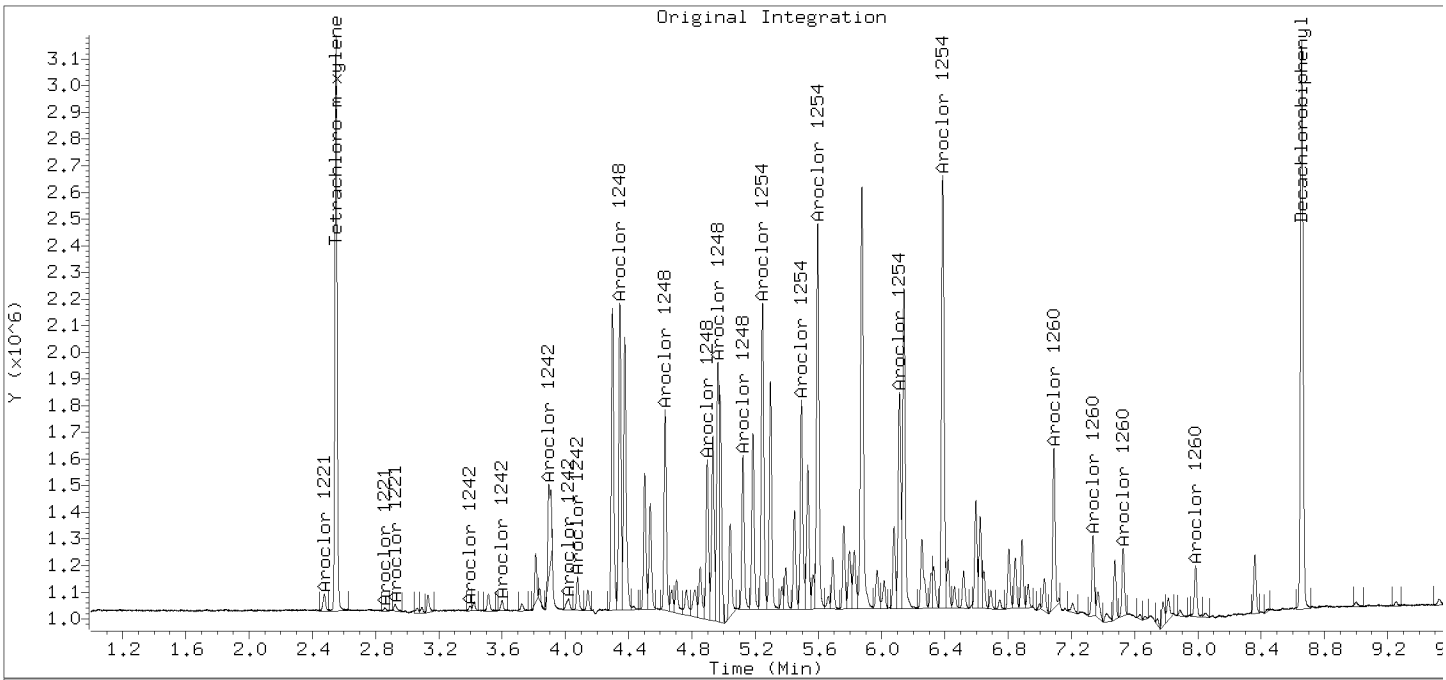
Operator: BLM

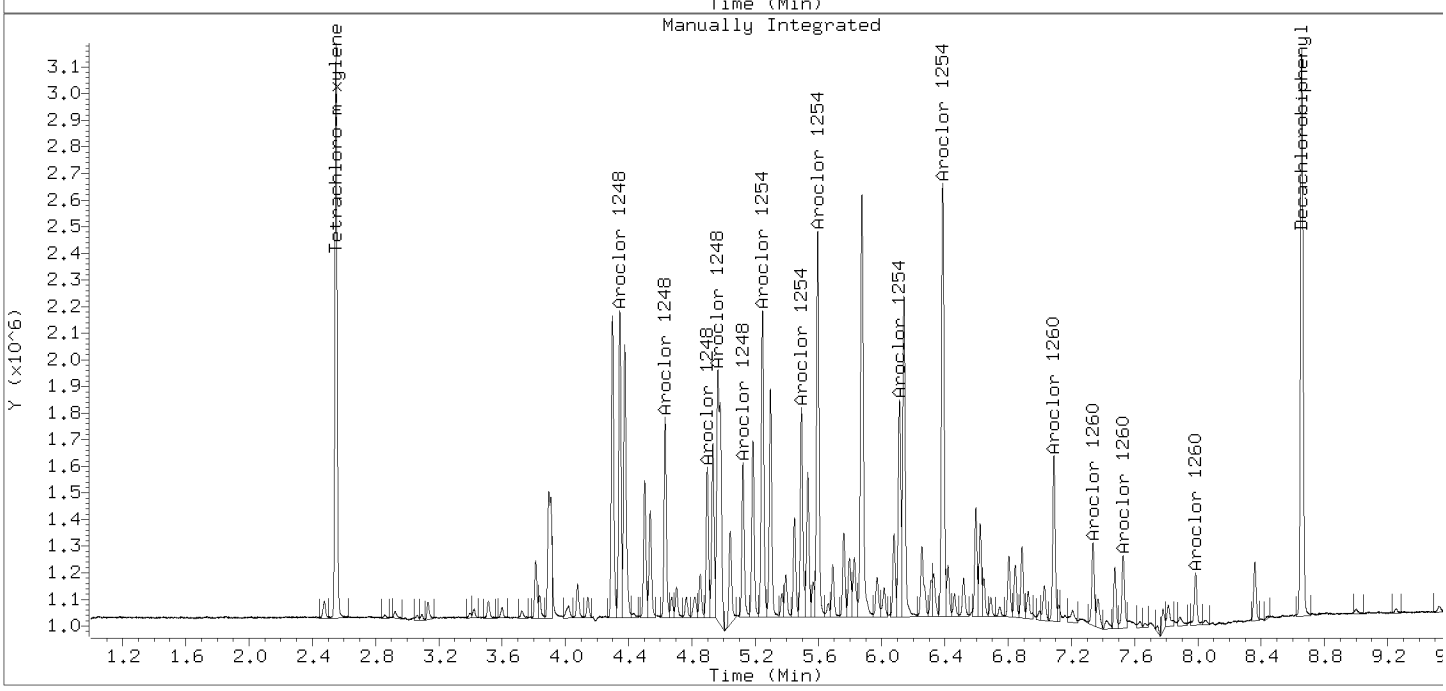
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718043.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 00:24 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	20901	0	
Aroclor 1016	20901	0	
Aroclor 1016	20901	0	
Aroclor 1016	20901	0	
Aroclor 1016	20901	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	38600	0	
Aroclor 1232	38600	0	
Aroclor 1232	38600	0	
Aroclor 1232	38600	0	

Aroclor 1232	38600	0	
Aroclor 1242	20901	0	
Aroclor 1242	20901	0	
Aroclor 1242	20901	0	
Aroclor 1242	20901	0	
Aroclor 1242	20901	0	
Aroclor 1248	1199078	1206923	BA
Aroclor 1248	1199078	1206923	BA
Aroclor 1248	1199078	1206923	BA
Aroclor 1248	1199078	1206923	BA
Aroclor 1248	1199078	1206923	BA
Aroclor 1254	1304190	1314858	BA
Aroclor 1254	1304190	1314858	BA
Aroclor 1254	1304190	1314858	BA
Aroclor 1254	1304190	1314858	BA
Aroclor 1254	1304190	1314858	BA
Aroclor 1260	1919175	0	CO
Aroclor 1260	1919175	0	CO
Aroclor 1260	1919175	0	CO
Aroclor 1260	1919175	0	CO
Aroclor 1260	1919175	0	CO
Tetrachloro-m-xylene	2104159	2104159	
Decachlorobiphenyl	2446024	2446024	

==========

SAMPLE NO.

SW2-170829-01-SPSH-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40158017004
Date Analyzed: 05/08/2018 00:40
Lab File ID: 050718.B\050718044.D
Initial wt/vol: 10.0023 Final wt/vol: 5 mL Dilution: 4
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<45.6	U
11104-28-2	PCB-1221 (Aroclor 1221)	<45.6	U
11141-16-5	PCB-1232 (Aroclor 1232)	<45.6	U
53469-21-9	PCB-1242 (Aroclor 1242)	<45.6	U
12672-29-6	PCB-1248 (Aroclor 1248)	665	
11097-69-1	PCB-1254 (Aroclor 1254)	453	
11096-82-5	PCB-1260 (Aroclor 1260)	155	J
1336-36-3	PCB, Total	1270	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718044.D
Lab Smp Id: 40158017004 Client Smp ID: SW2-170829-01-SPSH-
Inj Date : 08-MAY-2018 00:40
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017004 x4,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 44
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) * CpndVar

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.002	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.823	10401	9212	0.886	0.02		
1.853	13520	10726	0.793	0.03		
2.475	74229	64247	0.866	0.17		
2.550	2504424	2543434	1.016	5.94	$ 2 Tetrachloro-m-xylene	
2.920	40860	30083	0.736	0.09		
3.043	14589	11737	0.805	0.03		
3.063	19057	20059	1.053	0.04		
3.092	28376	27452	0.967	0.06		
3.133	68294	62964	0.922	0.16		
3.396	22314	22171	0.994	0.05		
3.422	40173	34473	0.858	0.09		
3.513	68547	65428	0.954	0.16		
3.599	44504	38763	0.871	0.10		
3.727	33294	27147	0.815	0.07		
3.812	240301	231101	0.962	0.57		
3.837	105486	92021	0.872	0.25		
3.896	468655	521878	1.114	1.11		
3.908	556247	513570	0.923	1.31		
4.018	86417	44657	0.517	0.20		
4.078	162534	142703	0.878	0.38		
4.142	117761	85315	0.724	0.27		
4.214	25324	16181	0.639	0.06		
4.251	6947	7671	1.104	0.01		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.298	1344652	1262412	0.939	3.18	
4.345	1328808	1254432	0.944	3.15	6 Aroclor 1248
4.375	1309146	1094735	0.836	3.10	
4.502	633606	603587	0.953	1.50	
4.537	527508	462921	0.878	1.25	
4.631	877070	833234	0.950	2.08	6 Aroclor 1248
4.673	94547	83822	0.887	0.22	
4.703	151602	134173	0.885	0.35	
4.765	93657	82074	0.876	0.22	
4.818	119825	82851	0.691	0.28	
4.853	196326	185995	0.947	0.46	
4.898	687803	664898	0.967	1.63	6 Aroclor 1248
4.932	812622	773899	0.952	1.92	
4.964	1986321	1076174	0.542	4.71	6 Aroclor 1248
5.042	465998	374436	0.804	1.10	
5.124	756811	704821	0.931	1.79	6 Aroclor 1248
5.186	776991	714609	0.920	1.84	
5.247	1402016	1239791	0.884	3.32	7 Aroclor 1254
5.298	1012287	899292	0.888	2.40	
5.370	103323	98343	0.952	0.24	
5.394	209124	174208	0.833	0.49	
5.449	456455	427432	0.936	1.08	
5.493	933338	849921	0.911	2.21	7 Aroclor 1254
5.533	686163	590208	0.860	1.62	
5.566	136407	135563	0.994	0.32	
5.595	1784091	1578235	0.885	4.23	7 Aroclor 1254
5.663	62307	55118	0.885	0.14	
5.691	241926	217440	0.899	0.57	
5.760	345094	316113	0.916	0.81	
5.797	293646	228150	0.777	0.69	
5.827	321686	240613	0.748	0.76	
5.875	2198539	1725015	0.785	5.21	
5.972	206424	159323	0.772	0.48	
6.015	157142	114453	0.728	0.37	
6.078	355993	335728	0.943	0.84	
6.112	1055919	927576	0.878	2.50	7 Aroclor 1254
6.140	1490416	1274315	0.855	3.53	
6.254	401496	270194	0.673	0.95	
6.313	133491	147444	1.105	0.31	
6.328	220957	172028	0.779	0.52	
6.385	2031085	1696895	0.835	4.81	7 Aroclor 1254
6.420	228595	203495	0.890	0.54	
6.459	115901	94568	0.816	0.27	
6.517	185729	150249	0.809	0.44	
6.596	457236	431146	0.943	1.08	
6.623	399865	381278	0.954	0.94	
6.645	165809	151323	0.913	0.39	
6.690	83747	76530	0.914	0.19	
6.748	46831	40181	0.858	0.11	
6.805	267061	235303	0.881	0.63	
6.845	236410	206712	0.874	0.56	
6.886	322722	284469	0.881	0.76	
6.926	139878	109435	0.782	0.33	
6.998	49524	36729	0.742	0.11	
7.028	177176	145473	0.821	0.42	
7.089	733187	666750	0.909	1.73	8 Aroclor 1260
7.120	88792	66365	0.747	0.21	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.209	80410	47902	0.596	0.19	
7.336	363001	323515	0.891	0.86	8 Aroclor 1260
7.368	157926	116147	0.735	0.37	
7.420	67535	35381	0.524	0.16	
7.475	249820	240683	0.963	0.59	
7.528	358304	288187	0.804	0.84	8 Aroclor 1260
7.633	33228	24177	0.728	0.07	
7.667	21108	17218	0.816	0.05	
7.699	26819	18724	0.698	0.06	
7.745	26012	29669	1.141	0.06	
7.779	97452	86602	0.889	0.23	
7.812	107797	83160	0.771	0.25	
7.846	19935	22755	1.141	0.04	
7.884	66241	31449	0.475	0.15	
7.985	246415	211032	0.856	0.58	8 Aroclor 1260
8.049	26225	19512	0.744	0.06	
8.359	243830	217833	0.893	0.57	
8.534	14793	10377	0.701	0.03	
8.587	12622	10590	0.839	0.02	
8.656	3006596	2582655	0.859	7.59	$ 12 Decachlorobiphenyl
8.811	11123	9318	0.838	0.02	
8.999	19842	15152	0.764	0.04	
9.255	21152	17604	0.832	0.05	
9.522	25986	18521	0.713	0.06	
	42157502	36643633		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718044.D
Lab Smp Id: 40158017004 Client Smp ID: SW2-170829-01-SPSH-
Inj Date : 08-MAY-2018 00:40
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017004 x4,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 44
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) * CpndVar

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.002	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.549	2.549	0.000	2504423	0.02079		42		

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1328808	0.55707	1100	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	877070	0.20649	410	0.00- 20.00	66.00	BA
4.898	4.898	0.000	687803	0.33765	680	0.00- 20.00	51.76	BA
4.964	4.963	0.001	1986320	0.36264	720	0.00- 20.00	149.48	BA
5.123	5.123	0.000	756811	0.20004	400	0.00- 20.00	56.95	BA
			Average of Peak Concentrations =		660			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1402016	0.24860	500	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	933337	0.20013	400	0.00- 20.00	66.57	BA
5.595	5.596	-0.001	1784090	0.20837	420	0.00- 20.00	127.25	BA
6.112	6.113	-0.001	1055919	0.19875	400	0.00- 20.00	75.31	BA
6.385	6.387	-0.002	2031084	0.27743	550	0.00- 20.00	144.87	BA
			Average of Peak Concentrations =		450			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.088	7.090	-0.002	733187	0.06230	120	0.00- 20.00	36.10	BA
7.336	7.338	-0.002	363000	0.06418	130	0.00- 20.00	17.87	BA
7.527	7.529	-0.002	358303	0.10480	210	0.00- 20.00	17.64	BA
7.983	7.987	-0.004	246414	0.07780	160	0.00- 20.00	12.13	BA
			Average of Peak Concentrations =		150			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	3006595	0.02257	45			

QC Flag Legend

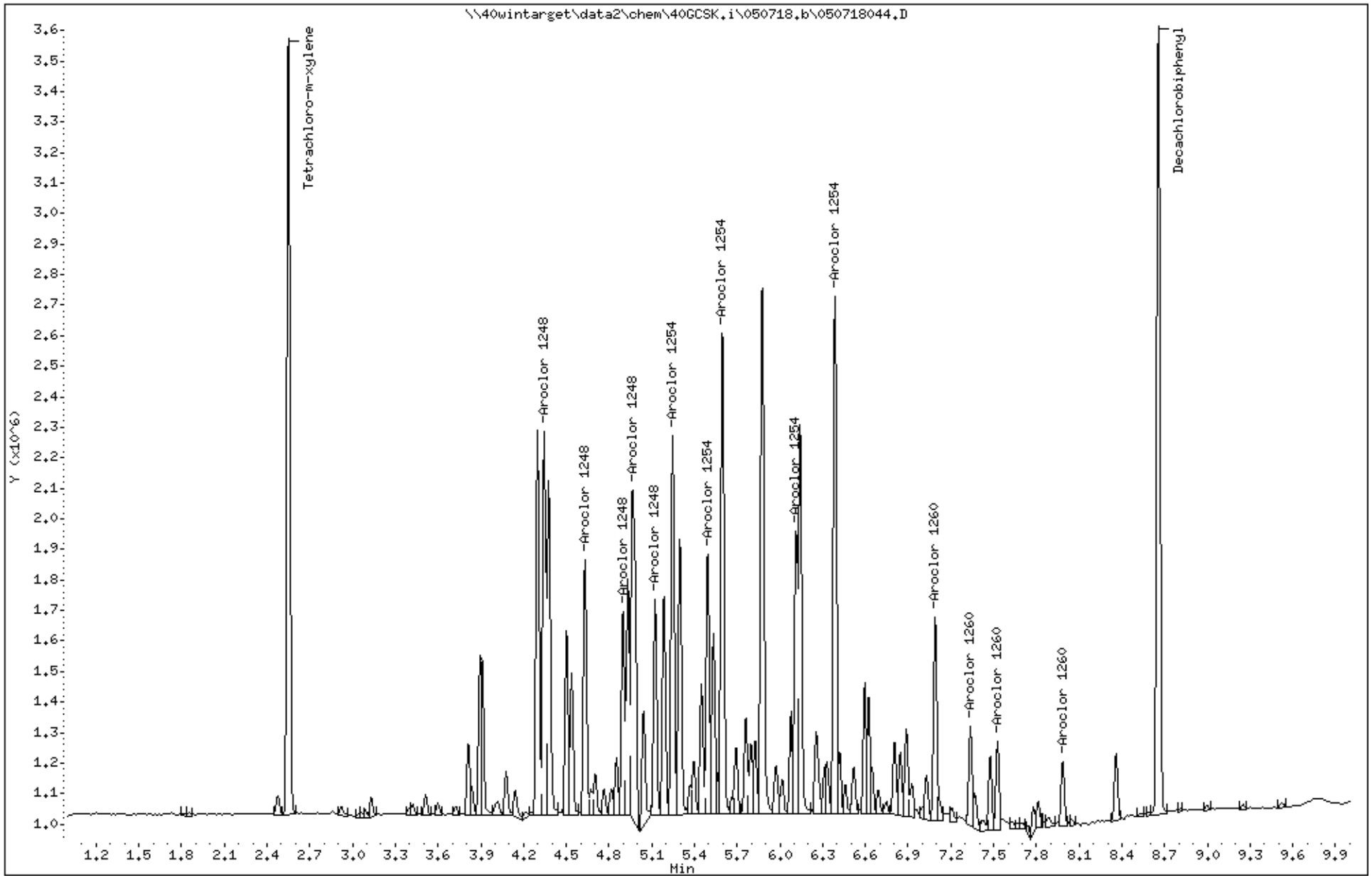
M - Compound response manually integrated.

Review Codes Legend

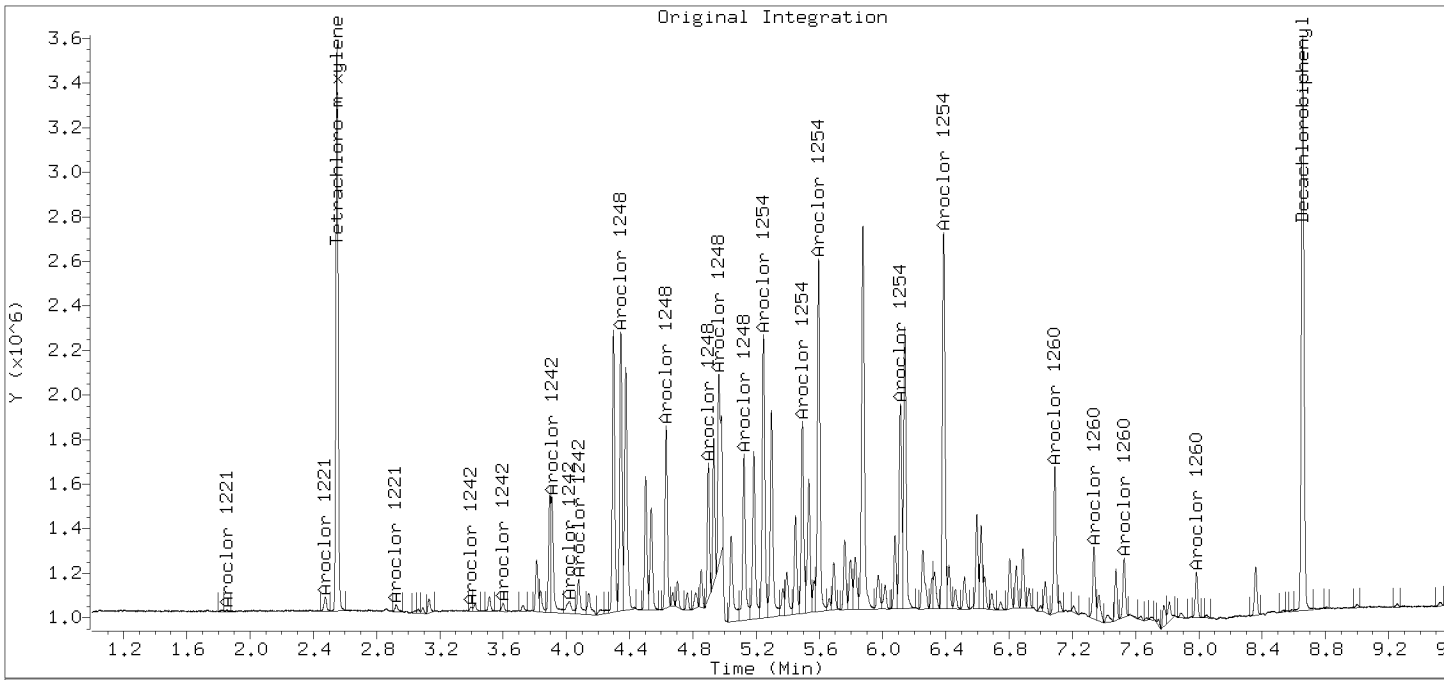
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

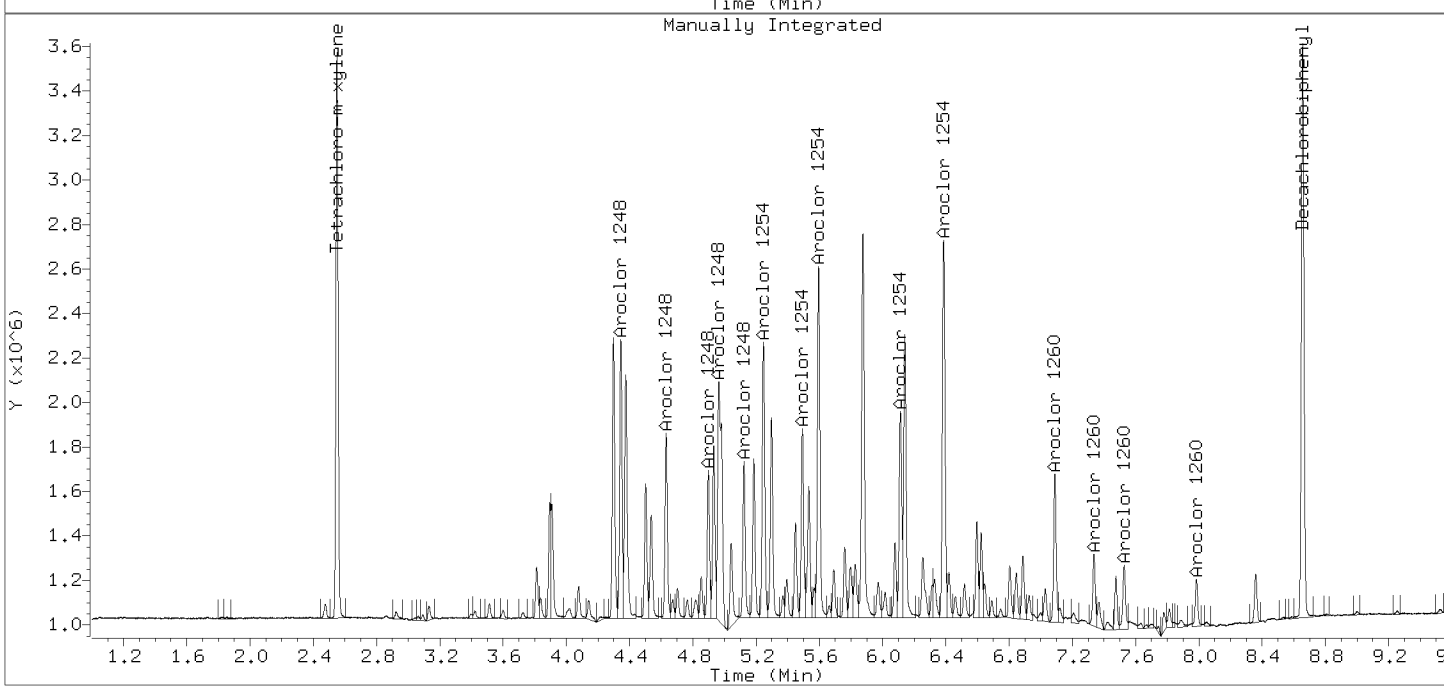
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718044.D
Date : 08-MAY-2018 00:40
Client ID: SW2-170829-01-SPSH-
Sample Info: 40158017004 x4,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718044.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 00:40 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	22313	0	
Aroclor 1016	22313	0	
Aroclor 1016	22313	0	
Aroclor 1016	22313	0	
Aroclor 1016	22313	0	
Aroclor 1221	13519	0	
Aroclor 1221	13519	0	
Aroclor 1221	13519	0	
Aroclor 1221	13519	0	
Aroclor 1221	13519	0	
Aroclor 1232	40860	0	
Aroclor 1232	40860	0	
Aroclor 1232	40860	0	
Aroclor 1232	40860	0	

Aroclor 1232	40860	0	
Aroclor 1242	22313	0	
Aroclor 1242	22313	0	
Aroclor 1242	22313	0	
Aroclor 1242	22313	0	
Aroclor 1242	22313	0	
Aroclor 1248	1324642	1328808	BA
Aroclor 1248	1324642	1328808	BA
Aroclor 1248	1324642	1328808	BA
Aroclor 1248	1324642	1328808	BA
Aroclor 1248	1324642	1328808	BA
Aroclor 1254	1502834	1402016	BA
Aroclor 1254	1502834	1402016	BA
Aroclor 1254	1502834	1402016	BA
Aroclor 1254	1502834	1402016	BA
Aroclor 1254	1502834	1402016	BA
Aroclor 1260	2009731	0	BA
Aroclor 1260	2009731	0	BA
Aroclor 1260	2009731	0	BA
Aroclor 1260	2009731	0	BA
Aroclor 1260	2009731	0	BA
Tetrachloro-m-xylene	2504423	2504423	
Decachlorobiphenyl	3006595	3006595	

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SAMPLE NO.

SW1-170829-01-SPSH-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40158017005
Date Analyzed: 05/08/2018 00:56
Lab File ID: 050718.B\050718045.D
Initial wt/vol: 10.0013 Final wt/vol: 5 mL Dilution: 30
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<342	U
11104-28-2	PCB-1221 (Aroclor 1221)	<342	U
11141-16-5	PCB-1232 (Aroclor 1232)	<342	U
53469-21-9	PCB-1242 (Aroclor 1242)	<342	U
12672-29-6	PCB-1248 (Aroclor 1248)	5340	
11097-69-1	PCB-1254 (Aroclor 1254)	2340	
11096-82-5	PCB-1260 (Aroclor 1260)	349	J
1336-36-3	PCB, Total	8030	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718045.D
Lab Smp Id: 40158017005 Client Smp ID: SW1-170829-01-SPSH-
Inj Date : 08-MAY-2018 00:56
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017005 x30,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 45
Dil Factor: 30.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	30.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.001	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.478	29387	23531	0.801	0.10		
2.550	421234	432311	1.026	1.56	$ 2 Tetrachloro-m-xylene	
3.096	17729	17600	0.993	0.06		
3.131	27978	24278	0.868	0.10		
3.516	23386	23274	0.995	0.08		
3.602	12844	12498	0.973	0.04		
3.726	19515	15942	0.817	0.07		
3.812	163255	159700	0.978	0.60		
3.837	64478	60344	0.936	0.23		
3.909	832448	475428	0.571	3.09		
4.077	179277	157952	0.881	0.66		
4.143	74890	67508	0.901	0.27		
4.298	1226916	1143456	0.932	4.55		
4.345	1264236	1205417	0.953	4.69	6 Aroclor 1248	BA
4.376	1291019	1110757	0.860	4.79		
4.502	720644	694386	0.964	2.67		
4.537	566513	491529	0.868	2.10		
4.631	962988	909085	0.944	3.57	6 Aroclor 1248	BA
4.674	63914	60490	0.946	0.23		
4.704	149482	130920	0.876	0.55		
4.764	68608	57826	0.843	0.25		
4.817	99039	63876	0.645	0.36		
4.853	193916	178363	0.920	0.71		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.898	836053	801542	0.959	3.10	6 Aroclor 1248
4.932	662015	635326	0.960	2.45	
4.964	1892581	1178361	0.623	7.43	6 Aroclor 1248
5.043	333992	280413	0.840	1.23	
5.123	1013318	926976	0.915	3.76	6 Aroclor 1248
5.186	501169	452503	0.903	1.86	
5.247	1010111	898576	0.890	3.74	7 Aroclor 1254
5.297	765425	679221	0.887	2.84	
5.368	67675	61347	0.907	0.25	
5.394	153001	126341	0.826	0.56	
5.449	357875	329798	0.922	1.32	
5.493	750718	675058	0.899	2.78	7 Aroclor 1254
5.533	547760	471715	0.861	2.03	
5.569	62548	74905	1.198	0.23	
5.595	1348900	1159739	0.860	5.00	7 Aroclor 1254
5.663	46011	34317	0.746	0.17	
5.691	216065	189388	0.877	0.80	
5.760	189916	174843	0.921	0.70	
5.797	163700	125168	0.765	0.60	
5.827	212913	159726	0.750	0.79	
5.875	1451977	1171541	0.807	5.39	
5.973	133058	101220	0.761	0.49	
6.016	94009	57489	0.612	0.34	
6.079	173916	157832	0.908	0.64	
6.112	756640	668194	0.883	2.80	7 Aroclor 1254
6.141	716984	601600	0.839	2.66	
6.254	197571	132925	0.673	0.73	
6.313	73622	75896	1.031	0.27	
6.328	95999	82569	0.860	0.35	
6.386	1013418	865315	0.854	3.76	7 Aroclor 1254
6.419	127568	110429	0.866	0.47	
6.461	63140	51980	0.823	0.23	
6.518	86688	59850	0.690	0.32	
6.597	212487	196015	0.922	0.78	
6.623	209225	190224	0.909	0.77	
6.645	66768	64790	0.970	0.24	
6.691	41003	34561	0.843	0.15	
6.748	26105	19678	0.754	0.09	
6.804	94953	83005	0.874	0.35	
6.846	88008	81964	0.931	0.32	
6.889	147595	131354	0.890	0.54	
6.929	57936	41292	0.713	0.21	
6.998	13337	12219	0.916	0.04	
7.029	53508	44632	0.834	0.19	
7.090	226757	211824	0.934	0.84	8 Aroclor 1260
7.121	29889	22733	0.761	0.11	
7.338	134105	119950	0.894	0.49	8 Aroclor 1260
7.368	50873	41266	0.811	0.18	
7.476	77009	73172	0.950	0.28	
7.529	100992	80661	0.799	0.37	8 Aroclor 1260
7.780	28793	26111	0.907	0.10	
7.810	25004	18884	0.755	0.09	
7.985	65286	56378	0.864	0.24	8 Aroclor 1260
8.360	54486	49331	0.905	0.20	
8.656	526422	468973	0.891	1.95	$ 12 Decachlorobiphenyl
9.001	16119	10777	0.669	0.05	
	26936688	23168368		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718045.D
Lab Smp Id: 40158017005 Client Smp ID: SW1-170829-01-SPSH-
Inj Date : 08-MAY-2018 00:56
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017005 x30,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 45
Dil Factor: 30.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	30.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.001	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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
2.549	2.549	0.000	421233	0.00350	52			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1264235	0.53000	7900	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	962988	0.22672	3400	0.00- 20.00	76.17	BA
4.897	4.898	-0.001	836052	0.41042	6200	0.00- 20.00	66.13	BA
4.963	4.963	0.000	1892580	0.34553	5200	0.00- 20.00	149.70	BA
5.122	5.123	-0.001	1013318	0.26784	4000	0.00- 20.00	80.15	BA
Average of Peak Concentrations =					5300			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1010111	0.17911	2700	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	750717	0.16097	2400	0.00- 20.00	74.32	BA
5.595	5.596	-0.001	1348899	0.15754	2400	0.00- 20.00	133.54	BA
6.111	6.113	-0.002	756640	0.14242	2100	0.00- 20.00	74.91	BA
6.386	6.387	-0.001	1013417	0.13842	2100	0.00- 20.00	100.33	BA
Average of Peak Concentrations =					2300			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.090	7.090	0.000	226757	0.01927	290	0.00- 20.00	22.38	BA
7.337	7.338	-0.001	134104	0.02371	360	0.00- 20.00	13.23	BA
7.528	7.529	-0.001	100991	0.02954	440	0.00- 20.00	9.97	BA
7.985	7.987	-0.002	65285	0.02061	310	0.00- 20.00	6.44	BA
Average of Peak Concentrations =					350			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	526422	0.00395	59			

QC Flag Legend

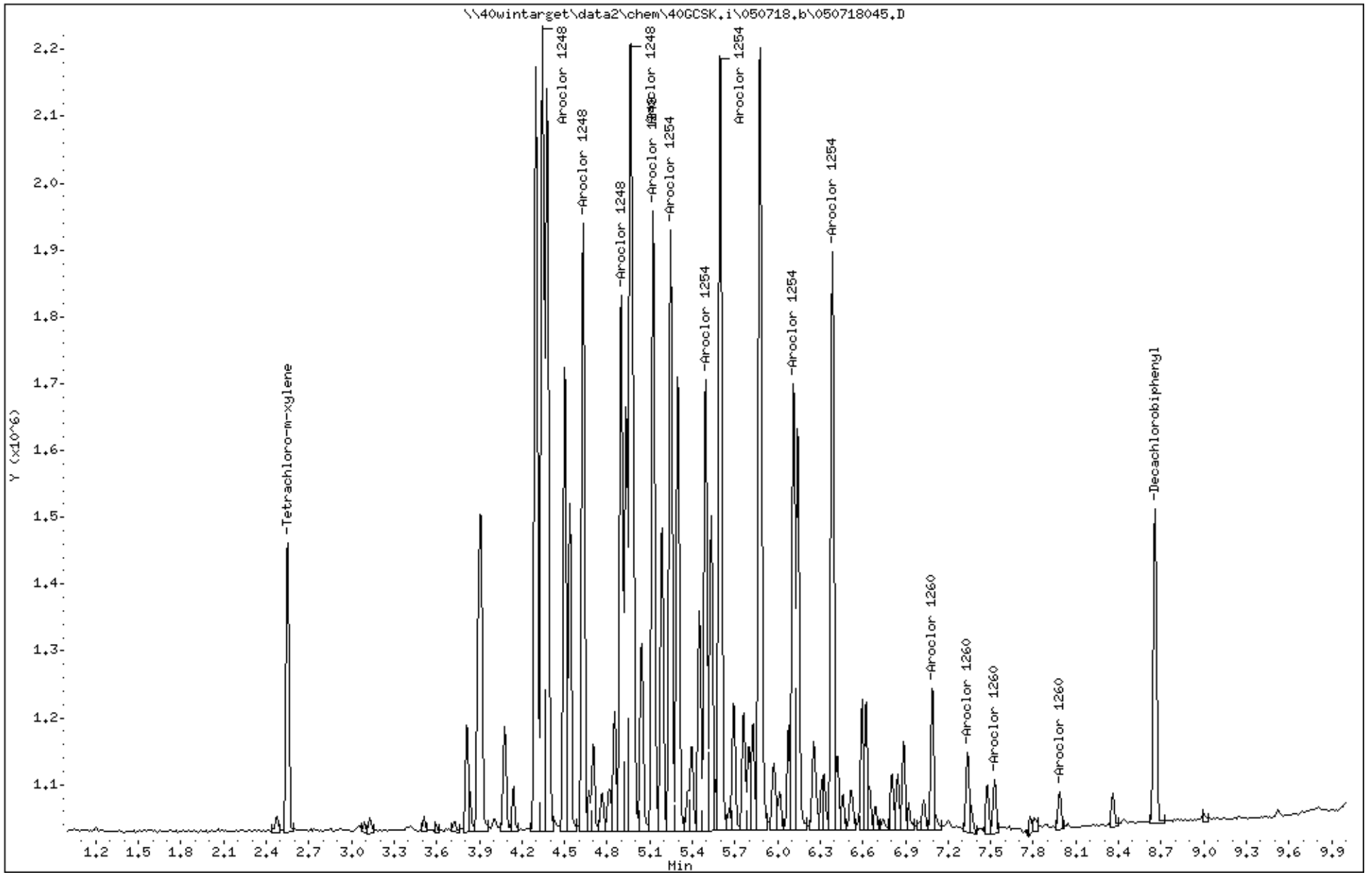
M - Compound response manually integrated.

Review Codes Legend

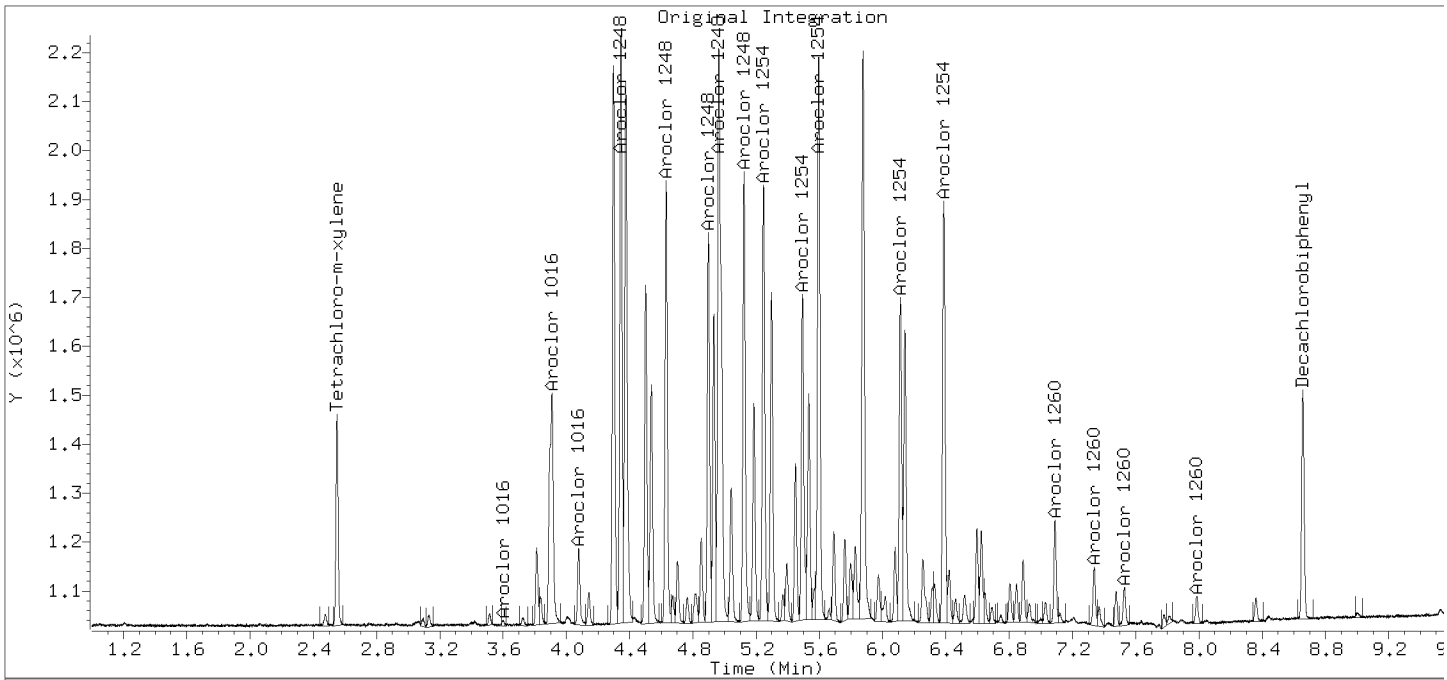
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

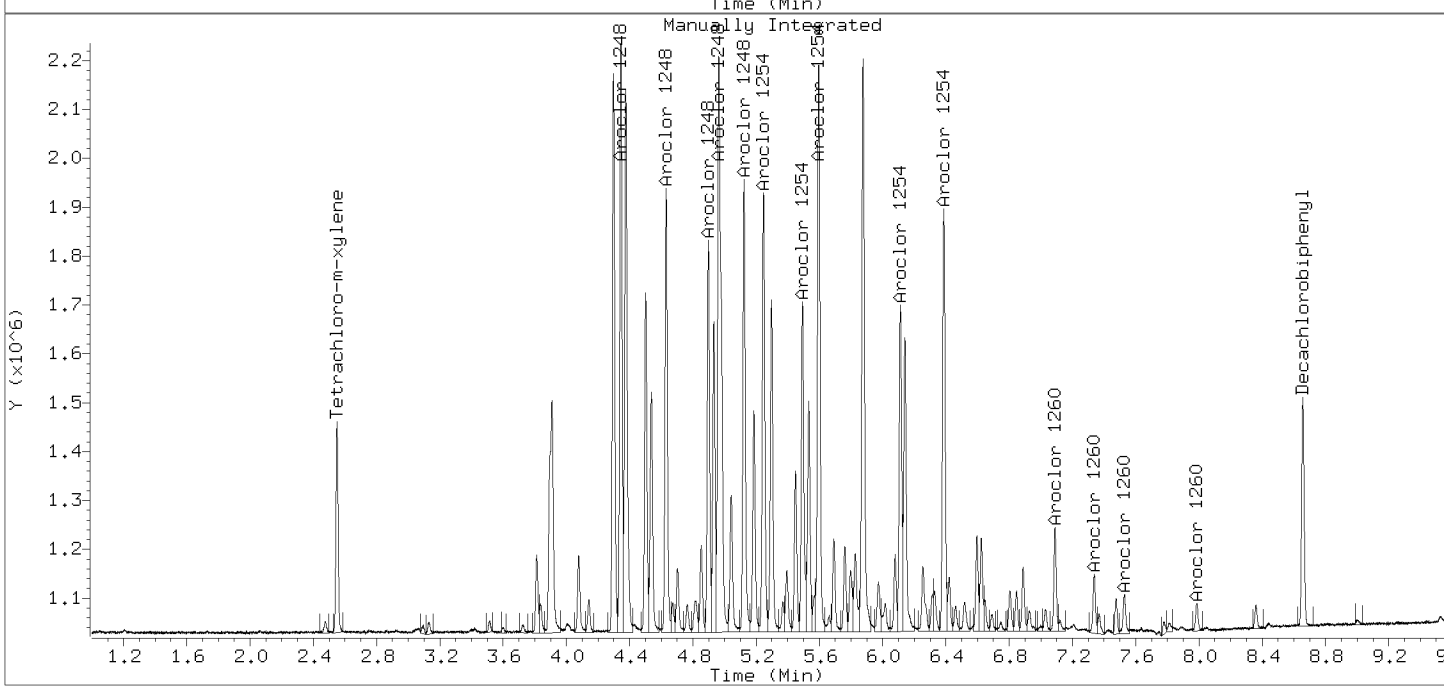
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718045.D
Date : 08-MAY-2018 00:56
Client ID: SW1-170829-01-SPSH-
Sample Info: 40158017005 x30,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718045.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 00:56 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017005





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	1252613	1264235	BA
Aroclor 1248	1252613	1264235	BA
Aroclor 1248	1252613	1264235	BA
Aroclor 1248	1252613	1264235	BA
Aroclor 1248	1252613	1264235	BA
Aroclor 1254	980134	1010111	BA
Aroclor 1254	980134	1010111	BA
Aroclor 1254	980134	1010111	BA
Aroclor 1254	980134	1010111	BA
Aroclor 1254	980134	1010111	BA
Aroclor 1260	1005748	0	BA
Aroclor 1260	1005748	0	BA
Aroclor 1260	1005748	0	BA
Aroclor 1260	1005748	0	BA
Aroclor 1260	1005748	0	BA
Tetrachloro-m-xylene	421233	421233	
Decachlorobiphenyl	526422	526422	

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SAMPLE NO.

SW1-170829-01-FALLF-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40158017006
Date Analyzed: 05/08/2018 01:12
Lab File ID: 050718.B\050718046.D
Initial wt/vol: 9.9932 g Final wt/vol: 5 mL Dilution: 20
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<228	U
11104-28-2	PCB-1221 (Aroclor 1221)	<228	U
11141-16-5	PCB-1232 (Aroclor 1232)	<228	U
53469-21-9	PCB-1242 (Aroclor 1242)	<228	U
12672-29-6	PCB-1248 (Aroclor 1248)	3690	
11097-69-1	PCB-1254 (Aroclor 1254)	2100	
11096-82-5	PCB-1260 (Aroclor 1260)	320	J
1336-36-3	PCB, Total	6110	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718046.D
Lab Smp Id: 40158017006 Client Smp ID: SW1-170829-01-FALLF
Inj Date : 08-MAY-2018 01:12
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017006 x20,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 46
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.993	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.476	42943	34264	0.798	0.13		
2.550	556927	575458	1.033	1.71	$ 2 Tetrachloro-m-xylene	
2.922	11220	10749	0.958	0.03		
3.095	9880	10704	1.083	0.03		
3.130	53402	51460	0.964	0.16		
3.396	36264	35798	0.987	0.11	5 Aroclor 1016	BA
3.423	29782	27517	0.924	0.09		
3.512	96555	92217	0.955	0.29		
3.599	89579	81352	0.908	0.27	5 Aroclor 1016	BA
3.726	17105	14582	0.853	0.05		
3.813	146556	109802	0.749	0.45		
3.897	415864	270914	0.651	1.28	5 Aroclor 1016	BA
4.020	83779	62208	0.743	0.25	5 Aroclor 1016	BA
4.079	84852	73177	0.862	0.26	5 Aroclor 1016	BA
4.142	66874	60459	0.904	0.20		
4.298	1325740	1218072	0.919	4.08		
4.345	1395383	1310503	0.939	4.29	6 Aroclor 1248	BA
4.376	1246042	1050129	0.843	3.83		
4.502	722089	704660	0.976	2.22		
4.537	561998	508888	0.905	1.73		
4.631	898673	842803	0.938	2.76	6 Aroclor 1248	BA
4.672	75160	64427	0.857	0.23		
4.704	146714	131157	0.894	0.45		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.764	77029	64874	0.842	0.23	
4.817	98641	66541	0.675	0.30	
4.853	179844	162606	0.904	0.55	
4.898	805876	777344	0.965	2.48	6 Aroclor 1248
4.933	742994	703524	0.947	2.28	
4.964	2227491	1352908	0.607	7.24	6 Aroclor 1248
5.042	407450	342980	0.842	1.25	
5.124	930087	848406	0.912	2.86	6 Aroclor 1248
5.186	677131	617384	0.912	2.08	
5.246	1369523	1206240	0.881	4.21	7 Aroclor 1254
5.297	1007634	895399	0.889	3.10	
5.369	102930	91369	0.888	0.31	
5.397	269920	215064	0.797	0.83	
5.449	497293	461886	0.929	1.53	
5.493	948215	851408	0.898	2.92	7 Aroclor 1254
5.532	783367	669387	0.855	2.41	
5.572	61796	73862	1.195	0.19	
5.596	1806965	1598843	0.885	5.56	7 Aroclor 1254
5.662	52695	49033	0.931	0.16	
5.691	263247	230006	0.874	0.81	
5.760	258225	238334	0.923	0.79	
5.796	206711	160959	0.779	0.63	
5.827	309580	221481	0.715	0.95	
5.876	2021833	1579603	0.781	6.22	
5.973	192490	125224	0.651	0.59	
6.017	109627	86940	0.793	0.33	
6.079	268059	247919	0.925	0.82	
6.112	1008863	887446	0.880	3.10	7 Aroclor 1254
6.142	1008023	848642	0.842	3.10	
6.255	235145	169532	0.721	0.72	
6.316	85342	87696	1.028	0.26	
6.330	129331	111065	0.859	0.39	
6.387	1463088	1233268	0.843	4.50	7 Aroclor 1254
6.422	142228	126456	0.889	0.43	
6.461	79541	64116	0.806	0.24	
6.518	111801	84720	0.758	0.34	
6.596	449015	419591	0.934	1.38	
6.624	276444	251799	0.911	0.85	
6.645	79001	77298	0.978	0.24	
6.689	57629	48484	0.841	0.17	
6.746	26065	19649	0.754	0.08	
6.805	117611	103644	0.881	0.36	
6.846	121299	112018	0.923	0.37	
6.887	186426	166218	0.892	0.57	
6.928	84770	63783	0.752	0.26	
6.994	11965	12204	1.020	0.03	
7.028	65632	57876	0.882	0.20	
7.089	305172	278697	0.913	0.94	8 Aroclor 1260
7.120	38105	34707	0.911	0.11	
7.205	17917	13348	0.745	0.05	
7.338	173784	153219	0.882	0.53	8 Aroclor 1260
7.368	69569	53738	0.772	0.21	
7.419	19396	13165	0.679	0.05	
7.475	151979	137350	0.904	0.46	
7.527	146463	117647	0.803	0.45	8 Aroclor 1260
7.777	34548	32781	0.949	0.10	
7.813	55412	35883	0.648	0.17	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.986	90077	83567	0.928	0.27	8 Aroclor 1260
8.018	2235	5024	2.248	0.00	
8.360	90963	78750	0.866	0.28	
8.657	716115	646833	0.903	2.20	$ 12 Decachlorobiphenyl
9.000	10384	8527	0.821	0.03	
9.524	10517	11391	1.083	0.03	
	32461886	27930956		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718046.D
Lab Smp Id: 40158017006 Client Smp ID: SW1-170829-01-FALLF
Inj Date : 08-MAY-2018 01:12
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017006 x20,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 46
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.993	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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
2.549	2.549	0.000	556926	0.00462	46			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1395383	0.58498	5800	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	898672	0.21158	2100	0.00- 20.00	64.40	BA
4.898	4.898	0.000	805875	0.39561	4000	0.00- 20.00	57.75	BA
4.964	4.963	0.001	2227490	0.40667	4100	0.00- 20.00	159.63	BA
5.123	5.123	0.000	930086	0.24584	2500	0.00- 20.00	66.65	BA
Average of Peak Concentrations =					3700			
7 Aroclor 1254					CAS #: 11097-69-1			
5.245	5.248	-0.003	1369523	0.24284	2400	0.00- 20.00	100.00(M)	CO
5.493	5.492	0.001	948214	0.20332	2000	0.00- 20.00	69.24	CO
5.596	5.596	0.000	1806965	0.21104	2100	0.00- 20.00	131.94	CO
6.111	6.113	-0.002	1008863	0.18989	1900	0.00- 20.00	73.67	CO
6.387	6.387	0.000	1463087	0.19985	2000	0.00- 20.00	106.83	CO
Average of Peak Concentrations =					2100			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.089	7.090	-0.001	305171	0.02593	260	0.00- 20.00	20.86	CO
7.337	7.338	-0.001	173783	0.03072	310	0.00- 20.00	11.88	CO
7.526	7.529	-0.003	146463	0.04284	430	0.00- 20.00	10.01	CO
7.985	7.987	-0.002	90076	0.02844	280	0.00- 20.00	6.31	CO
Average of Peak Concentrations =					320			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	716114	0.00538	54			

QC Flag Legend

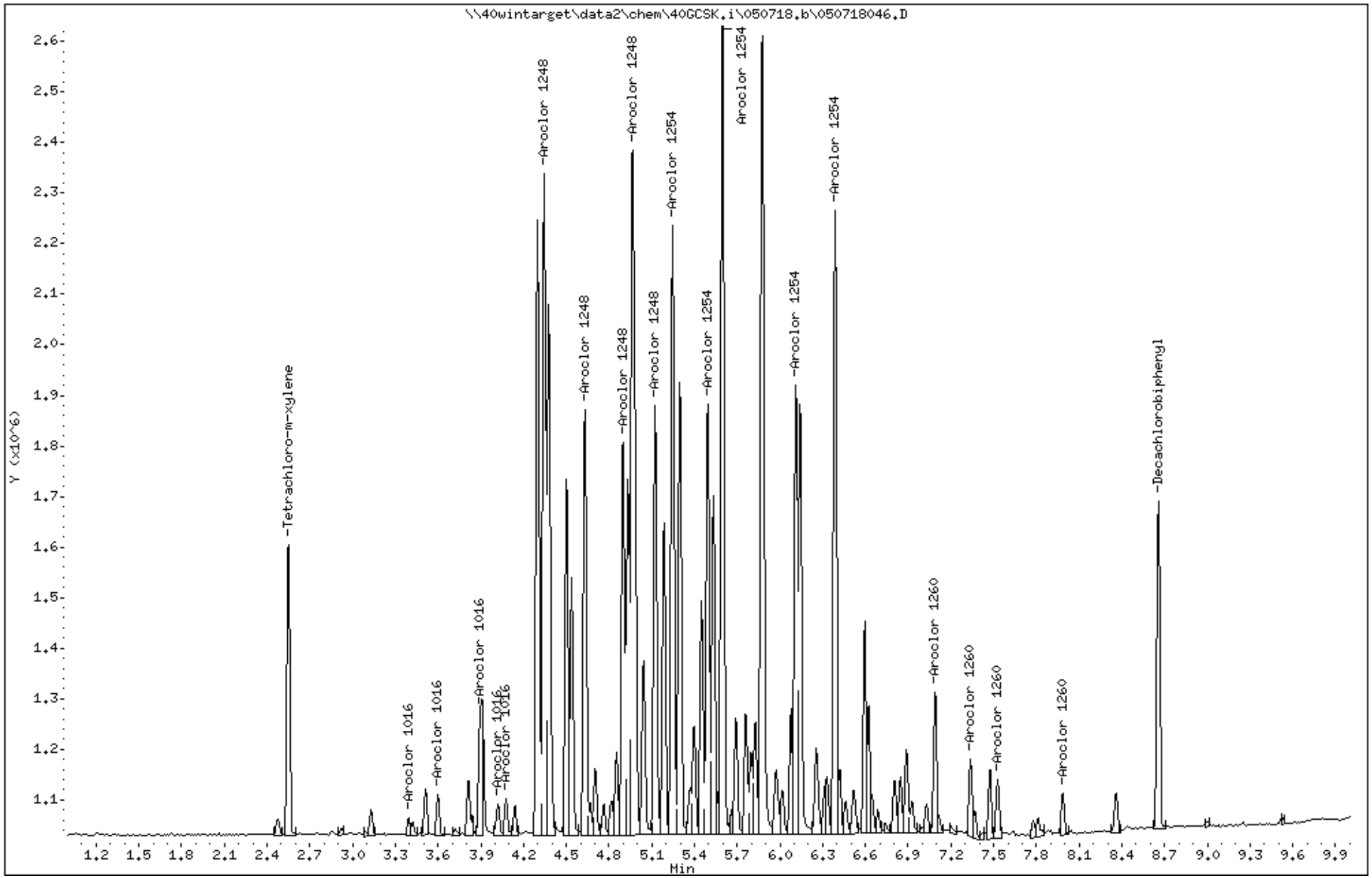
M - Compound response manually integrated.

Review Codes Legend

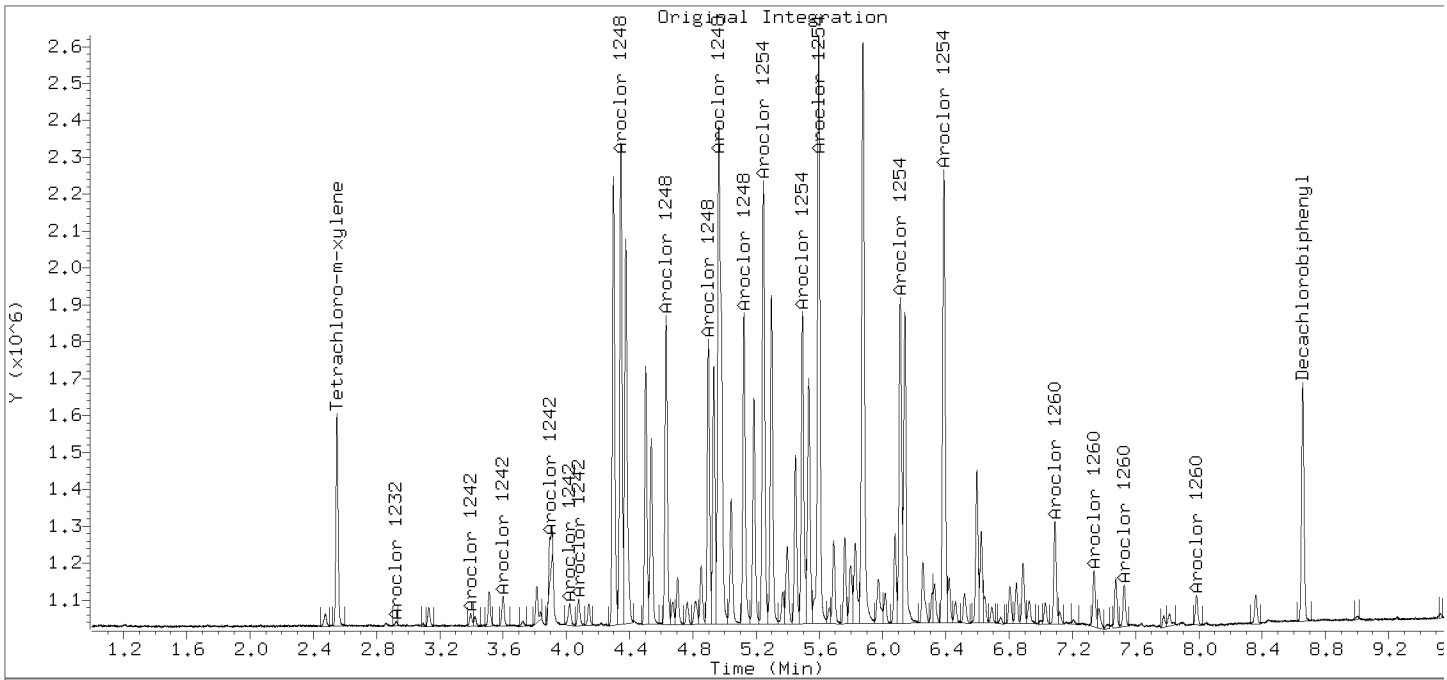
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

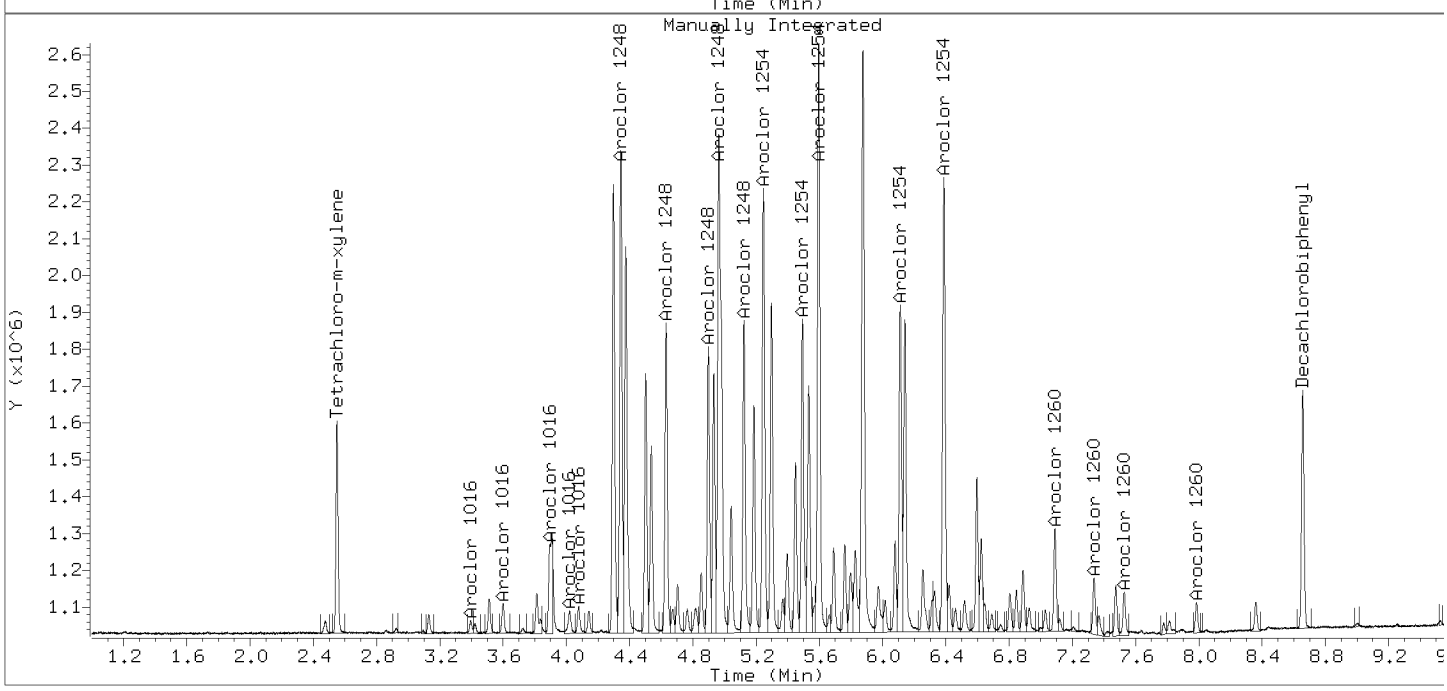
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718046.D
Date : 08-MAY-2018 01:12
Client ID: SW1-170829-01-FALLF
Sample Info: 40158017006 x20,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718046.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 01:12 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017006





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	11220	0	
Aroclor 1232	11220	0	
Aroclor 1232	11220	0	
Aroclor 1232	11220	0	

Aroclor 1232	11220	0	
Aroclor 1242	36264	0	
Aroclor 1242	36264	0	
Aroclor 1242	36264	0	
Aroclor 1242	36264	0	
Aroclor 1242	36264	0	
Aroclor 1248	1382200	1395383	BA
Aroclor 1248	1382200	1395383	BA
Aroclor 1248	1382200	1395383	BA
Aroclor 1248	1382200	1395383	BA
Aroclor 1248	1382200	1395383	BA
Aroclor 1254	1354683	1369523	CO
Aroclor 1254	1354683	1369523	CO
Aroclor 1254	1354683	1369523	CO
Aroclor 1254	1354683	1369523	CO
Aroclor 1254	1354683	1369523	CO
Aroclor 1260	1445979	0	CO
Aroclor 1260	1445979	0	CO
Aroclor 1260	1445979	0	CO
Aroclor 1260	1445979	0	CO
Aroclor 1260	1445979	0	CO
Tetrachloro-m-xylene	556926	556926	
Decachlorobiphenyl	716114	716114	

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SAMPLE NO.

ND5-170829-01-SPSH-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40158017007
Date Analyzed: 05/08/2018 01:44
Lab File ID: 050718.B\050718048.D
Initial wt/vol: 10.0085 Final wt/vol: 5 mL Dilution: 15
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<171	U
11104-28-2	PCB-1221 (Aroclor 1221)	<171	U
11141-16-5	PCB-1232 (Aroclor 1232)	<171	U
53469-21-9	PCB-1242 (Aroclor 1242)	<171	U
12672-29-6	PCB-1248 (Aroclor 1248)	2150	
11097-69-1	PCB-1254 (Aroclor 1254)	900	
11096-82-5	PCB-1260 (Aroclor 1260)	236	J
1336-36-3	PCB, Total	3280	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718048.D
Lab Smp Id: 40158017007 Client Smp ID: ND5-170829-01-SPSH-
Inj Date : 08-MAY-2018 01:44
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017007 x15,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 48
Dil Factor: 15.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	15.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.009	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.207	10313	9487	0.920	0.03		
2.476	85028	74275	0.874	0.32		
2.550	793834	838443	1.056	3.01	$ 2 Tetrachloro-m-xylene	
2.863	21213	15293	0.721	0.08		
2.924	36945	28724	0.777	0.14		
3.047	22193	13025	0.587	0.08		
3.091	23076	24113	1.045	0.08		
3.130	67513	66796	0.989	0.25		
3.394	13609	12880	0.946	0.05		
3.421	15085	13263	0.879	0.05		
3.514	73536	71776	0.976	0.27		
3.598	72209	67918	0.941	0.27		
3.725	43602	37709	0.865	0.16		
3.812	326234	322275	0.988	1.23		
3.836	121365	106512	0.878	0.46		
3.896	1100544	686578	0.624	4.17		
4.017	74279	37302	0.502	0.28		
4.077	167661	142135	0.848	0.63		
4.143	99127	88508	0.893	0.37		
4.298	1456639	1350462	0.927	5.53		
4.345	1395054	1343793	0.963	5.29	6 Aroclor 1248	BA
4.375	1532438	1292501	0.843	6.32		
4.432	43164	31232	0.724	0.16		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.502	497287	482749	0.971	1.88	
4.537	462978	403836	0.872	1.75	
4.632	846124	796995	0.942	3.21	6 Aroclor 1248
4.673	128026	113916	0.890	0.48	
4.704	120589	110174	0.914	0.45	
4.764	115809	94406	0.815	0.43	
4.819	124664	95026	0.762	0.47	
4.853	237860	219922	0.925	0.90	
4.898	538687	516776	0.959	2.04	6 Aroclor 1248
4.933	502117	476742	0.949	1.90	
4.965	1368164	693000	0.507	5.19	6 Aroclor 1248
5.043	371042	308415	0.831	1.40	
5.124	508612	453682	0.892	1.93	6 Aroclor 1248
5.186	599782	542872	0.905	2.27	
5.246	801891	696959	0.869	3.04	7 Aroclor 1254
5.297	637550	556431	0.873	2.42	
5.370	79543	75082	0.944	0.30	
5.395	196213	160595	0.818	0.74	
5.450	227503	208959	0.918	0.86	
5.494	542103	493621	0.911	2.05	7 Aroclor 1254
5.534	381445	317840	0.833	1.44	
5.567	80678	83408	1.034	0.30	
5.596	1026499	907541	0.884	3.89	7 Aroclor 1254
5.661	49014	44280	0.903	0.18	
5.692	143773	120154	0.836	0.54	
5.761	286325	264441	0.924	1.08	
5.796	160452	132312	0.825	0.60	
5.828	197298	153914	0.780	0.74	
5.877	1134697	884396	0.779	4.30	
5.972	124175	98002	0.789	0.47	
6.016	118065	85033	0.720	0.44	
6.080	208262	188845	0.907	0.79	
6.113	469234	410733	0.875	1.78	7 Aroclor 1254
6.141	692342	587443	0.848	2.62	
6.254	170638	100264	0.588	0.64	
6.314	61237	62352	1.018	0.23	
6.329	93859	75937	0.809	0.35	
6.387	980188	831787	0.849	3.72	7 Aroclor 1254
6.421	95249	80586	0.846	0.36	
6.461	48590	40325	0.830	0.18	
6.518	126482	96719	0.765	0.48	
6.596	255440	234758	0.919	0.97	
6.624	180826	163563	0.905	0.68	
6.645	72349	66935	0.925	0.27	
6.690	41939	33069	0.788	0.15	
6.746	25066	17656	0.704	0.09	
6.805	93227	80800	0.867	0.35	
6.847	104728	93721	0.895	0.39	
6.888	126859	115474	0.910	0.48	
6.926	67112	44942	0.670	0.25	
7.030	67989	60491	0.890	0.25	
7.090	263129	236916	0.900	0.99	8 Aroclor 1260
7.208	30876	17205	0.557	0.11	
7.337	157705	139712	0.886	0.59	8 Aroclor 1260
7.369	71012	51022	0.718	0.26	
7.427	33198	17779	0.536	0.12	
7.476	100430	94357	0.940	0.38	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.529	137734	107778	0.783	0.52	8 Aroclor 1260
7.561	9024	14981	1.660	0.03	
7.741	19008	19889	1.046	0.07	
7.779	47245	41310	0.874	0.17	
7.815	31763	26887	0.846	0.12	
7.985	112701	103320	0.917	0.42	8 Aroclor 1260
8.015	4489	6100	1.359	0.01	
8.360	85100	69691	0.819	0.32	
8.437	19826	13243	0.668	0.07	
8.658	973556	882252	0.906	3.69	$ 12 Decachlorobiphenyl
8.995	19684	14616	0.743	0.07	
9.526	31278	20157	0.644	0.11	
	26333002	22530094		100.000	

Total unknown % area = 59

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718048.D
Lab Smp Id: 40158017007 Client Smp ID: ND5-170829-01-SPSH-
Inj Date : 08-MAY-2018 01:44
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017007 x15,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 48
Dil Factor: 15.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	15.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.009	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	793834	0.00659	49			
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			
4.345	4.343	0.002	1395054	0.58484	4400	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	846124	0.19921	1500	0.00- 20.00	60.65	BA
4.898	4.898	0.000	538686	0.26445	2000	0.00- 20.00	38.61	BA
4.965	4.963	0.002	1368163	0.24978	1900	0.00- 20.00	98.07	BA
5.124	5.123	0.001	508611	0.13444	1000	0.00- 20.00	36.46	BA
Average of Peak Concentrations =					2100			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	801890	0.14219	1100	0.00- 20.00	100.00(M)	BA
5.494	5.492	0.002	542103	0.11624	870	0.00- 20.00	67.60	BA
5.596	5.596	0.000	1026498	0.11989	900	0.00- 20.00	128.01	BA
6.113	6.113	0.000	469233	0.08832	660	0.00- 20.00	58.52	BA
6.387	6.387	0.000	980187	0.13389	1000	0.00- 20.00	122.23	BA
Average of Peak Concentrations =					900			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.089	7.090	-0.001	263129	0.02236	170	0.00- 20.00	26.84	CO
7.337	7.338	-0.001	157705	0.02788	210	0.00- 20.00	16.09	CO
7.529	7.529	0.000	137734	0.04029	300	0.00- 20.00	14.95	CO
7.985	7.987	-0.002	112700	0.03558	270	0.00- 20.00	11.95	CO
Average of Peak Concentrations =					240			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	973556	0.00731	55			

QC Flag Legend

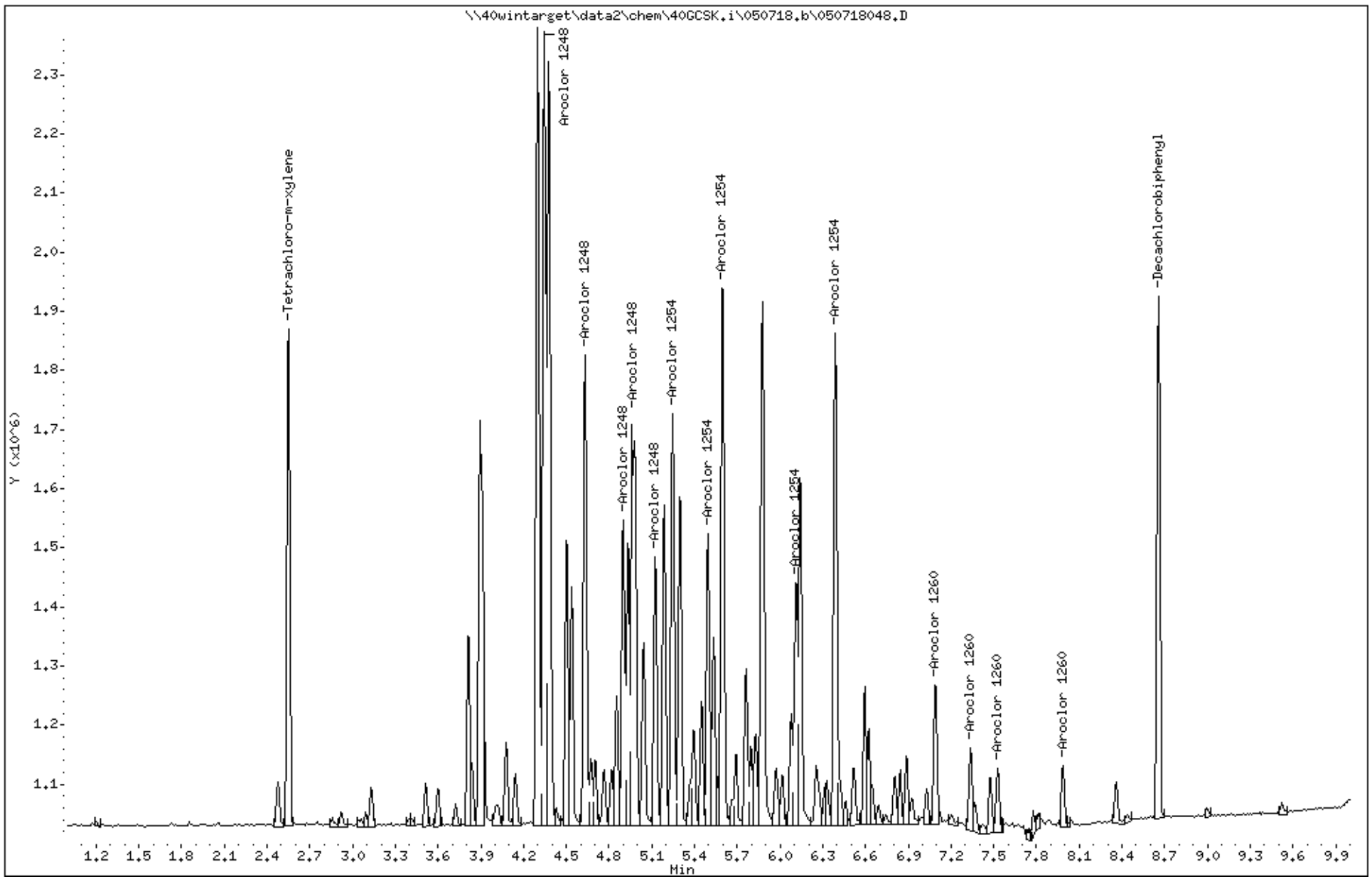
M - Compound response manually integrated.

Review Codes Legend

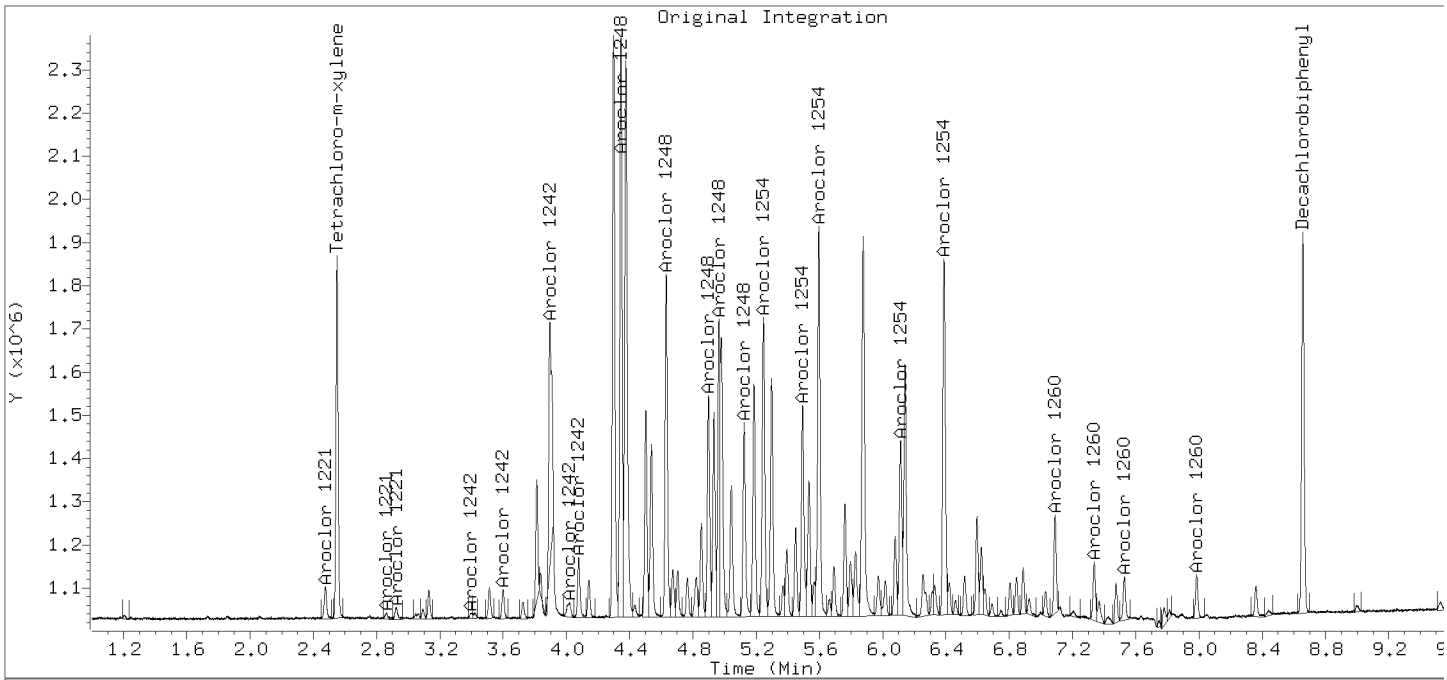
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

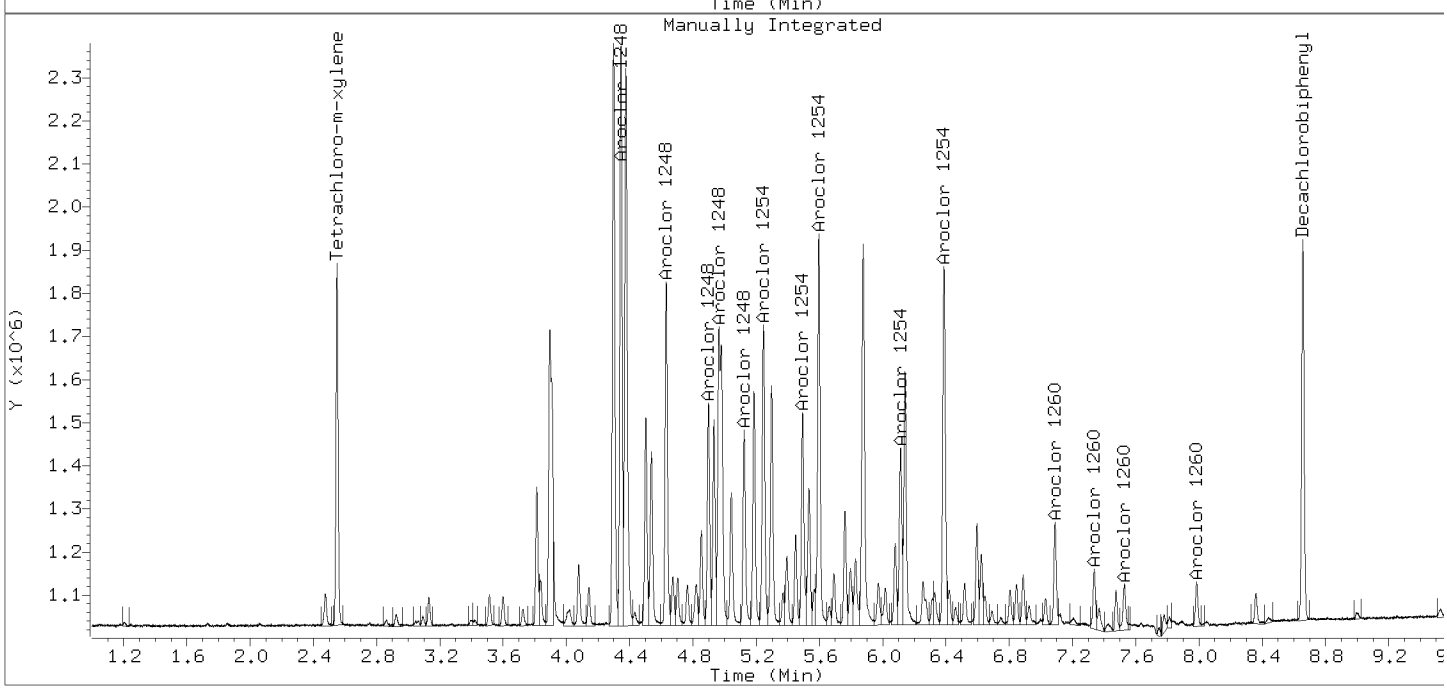
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718048.D
Date : 08-MAY-2018 01:44
Client ID: ND5-170829-01-SPSH-
Sample Info: 40158017007 x15,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718048.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 01:44 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017007





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	13608	0	
Aroclor 1016	13608	0	
Aroclor 1016	13608	0	
Aroclor 1016	13608	0	
Aroclor 1016	13608	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	36944	0	
Aroclor 1232	36944	0	
Aroclor 1232	36944	0	
Aroclor 1232	36944	0	

Aroclor 1232	36944	0	
Aroclor 1242	13608	0	
Aroclor 1242	13608	0	
Aroclor 1242	13608	0	
Aroclor 1242	13608	0	
Aroclor 1242	13608	0	
Aroclor 1248	1385626	1395054	BA
Aroclor 1248	1385626	1395054	BA
Aroclor 1248	1385626	1395054	BA
Aroclor 1248	1385626	1395054	BA
Aroclor 1248	1385626	1395054	BA
Aroclor 1254	789240	801890	BA
Aroclor 1254	789240	801890	BA
Aroclor 1254	789240	801890	BA
Aroclor 1254	789240	801890	BA
Aroclor 1254	789240	801890	BA
Aroclor 1260	958541	0	CO
Aroclor 1260	958541	0	CO
Aroclor 1260	958541	0	CO
Aroclor 1260	958541	0	CO
Aroclor 1260	958541	0	CO
Tetrachloro-m-xylene	793834	793834	
Decachlorobiphenyl	973556	973556	

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SAMPLE NO.

ND5-170829-01-SPSH-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40158017008
Date Analyzed: 05/08/2018 01:59
Lab File ID: 050718.B\050718049.D
Initial wt/vol: 10.0276 Final wt/vol: 5 mL Dilution: 20
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<227	U
11104-28-2	PCB-1221 (Aroclor 1221)	<227	U
11141-16-5	PCB-1232 (Aroclor 1232)	<227	U
53469-21-9	PCB-1242 (Aroclor 1242)	<227	U
12672-29-6	PCB-1248 (Aroclor 1248)	2640	
11097-69-1	PCB-1254 (Aroclor 1254)	1110	
11096-82-5	PCB-1260 (Aroclor 1260)	322	J
1336-36-3	PCB, Total	4070	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718049.D
Lab Smp Id: 40158017008 Client Smp ID: ND5-170829-01-SPSH-
Inj Date : 08-MAY-2018 01:59
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017008 x20,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 49
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.028	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.477	39661	35124	0.886	0.16		
2.549	598243	619451	1.035	2.47	$ 2 Tetrachloro-m-xylene	
3.063	13562	10005	0.738	0.05		
3.094	18528	20030	1.081	0.07		
3.130	36079	33220	0.921	0.14		
3.516	41181	39178	0.951	0.17		
3.598	16226	14812	0.913	0.06		
3.725	42018	35646	0.848	0.17		
3.813	316944	304245	0.960	1.31		
3.836	107154	95940	0.895	0.44		
3.895	1049373	622904	0.594	4.34		
4.077	124558	107249	0.861	0.51		
4.141	82314	74241	0.902	0.34		
4.298	1465660	1377820	0.940	6.07		
4.345	1425749	1385168	0.972	5.90	6 Aroclor 1248	BA
4.376	1497993	1269459	0.847	6.65		
4.432	42085	31744	0.754	0.17		
4.501	384527	359391	0.935	1.59		
4.537	384530	328061	0.853	1.59		
4.631	754448	716231	0.949	3.12	6 Aroclor 1248	BA
4.672	142131	129632	0.912	0.58		
4.702	99256	87524	0.882	0.41		
4.764	117594	104970	0.893	0.48		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.821	126552	95765	0.757	0.52	
4.853	240328	216632	0.901	0.99	
4.899	455631	432782	0.950	1.88	6 Aroclor 1248
4.933	401090	365902	0.912	1.66	
4.979	1192649	637443	0.534	4.94	6 Aroclor 1248
5.042	386665	339336	0.878	1.60	
5.124	395837	349661	0.883	1.63	6 Aroclor 1248
5.186	620058	558211	0.900	2.56	
5.245	770843	661804	0.859	3.19	7 Aroclor 1254
5.297	572491	492891	0.861	2.37	
5.369	65832	66713	1.013	0.27	
5.392	187536	150851	0.804	0.77	
5.449	195424	173967	0.890	0.80	
5.492	497042	453479	0.912	2.05	7 Aroclor 1254
5.533	329411	279136	0.847	1.36	
5.566	87729	84194	0.960	0.36	
5.596	924003	820647	0.888	3.82	7 Aroclor 1254
5.661	58642	52234	0.891	0.24	
5.691	112804	94477	0.838	0.46	
5.760	292499	272909	0.933	1.21	
5.795	160123	129709	0.810	0.66	
5.827	193185	153264	0.793	0.80	
5.875	1069079	815011	0.762	4.42	
5.972	116273	89033	0.766	0.48	
6.017	123803	90687	0.733	0.51	
6.079	215202	197221	0.916	0.89	
6.113	394119	345286	0.876	1.63	7 Aroclor 1254
6.140	659339	567981	0.861	2.73	
6.255	154408	87522	0.567	0.63	
6.313	52990	56268	1.062	0.21	
6.328	90929	71966	0.791	0.37	
6.388	956993	799239	0.835	3.96	7 Aroclor 1254
6.420	80053	72905	0.911	0.33	
6.460	45913	37699	0.821	0.19	
6.518	124993	96909	0.775	0.51	
6.595	269862	249478	0.924	1.11	
6.623	167571	148876	0.888	0.69	
6.646	71814	68727	0.957	0.29	
6.690	36112	29134	0.807	0.14	
6.746	21252	16886	0.795	0.08	
6.806	91106	79074	0.868	0.37	
6.846	105388	93309	0.885	0.43	
6.888	113378	102230	0.902	0.46	
6.927	63489	45233	0.712	0.26	
7.028	63978	54580	0.853	0.26	
7.089	264711	240731	0.909	1.09	8 Aroclor 1260
7.120	22647	25087	1.108	0.09	
7.205	28347	16999	0.600	0.11	
7.336	154952	139285	0.899	0.64	8 Aroclor 1260
7.366	63613	47286	0.743	0.26	
7.425	30738	16356	0.532	0.12	
7.475	98424	92201	0.937	0.40	
7.528	149125	108540	0.728	0.61	8 Aroclor 1260
7.746	16358	17728	1.084	0.06	
7.781	43186	36710	0.850	0.17	
7.812	33058	24645	0.746	0.13	
7.838	17559	17769	1.012	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.889	21880	13021	0.595	0.09	
7.984	112396	100864	0.897	0.46	8 Aroclor 1260
8.360	76932	69812	0.907	0.31	
8.656	753837	677001	0.898	3.12	$ 12 Decachlorobiphenyl
8.998	43498	26602	0.612	0.18	
9.526	51661	34206	0.662	0.21	
	24137156	20604149		100.000	

Total unknown % area = 59

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718049.D
Lab Smp Id: 40158017008 Client Smp ID: ND5-170829-01-SPSH-
Inj Date : 08-MAY-2018 01:59
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017008 x20,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 49
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.028	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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
2.549	2.549	0.000	598242	0.00497	50			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1425748	0.59771	6000	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	754448	0.17762	1800	0.00- 20.00	52.92	BA
4.898	4.898	0.000	455631	0.22367	2200	0.00- 20.00	31.96	BA
4.979	4.963	0.016	1192649	0.21774	2200	0.00- 20.00	83.65	BA
5.123	5.123	0.000	395837	0.10463	1000	0.00- 20.00	27.76	BA
Average of Peak Concentrations =					2600			
7 Aroclor 1254					CAS #: 11097-69-1			
5.244	5.248	-0.004	770843	0.13668	1400	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	497041	0.10658	1100	0.00- 20.00	64.48	BA
5.595	5.596	-0.001	924003	0.10792	1100	0.00- 20.00	119.87	BA
6.112	6.113	-0.001	394118	0.07418	740	0.00- 20.00	51.13	BA
6.387	6.387	0.000	956993	0.13072	1300	0.00- 20.00	124.15	BA
Average of Peak Concentrations =					1100			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.089	7.090	-0.001	264711	0.02249	220	0.00- 20.00	29.99	CO
7.336	7.338	-0.002	154952	0.02739	270	0.00- 20.00	16.19	CO
7.528	7.529	-0.001	149125	0.04362	430	0.00- 20.00	15.58	CO
7.983	7.987	-0.004	112396	0.03549	350	0.00- 20.00	11.74	CO
Average of Peak Concentrations =					320			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	753837	0.00566	56			

QC Flag Legend

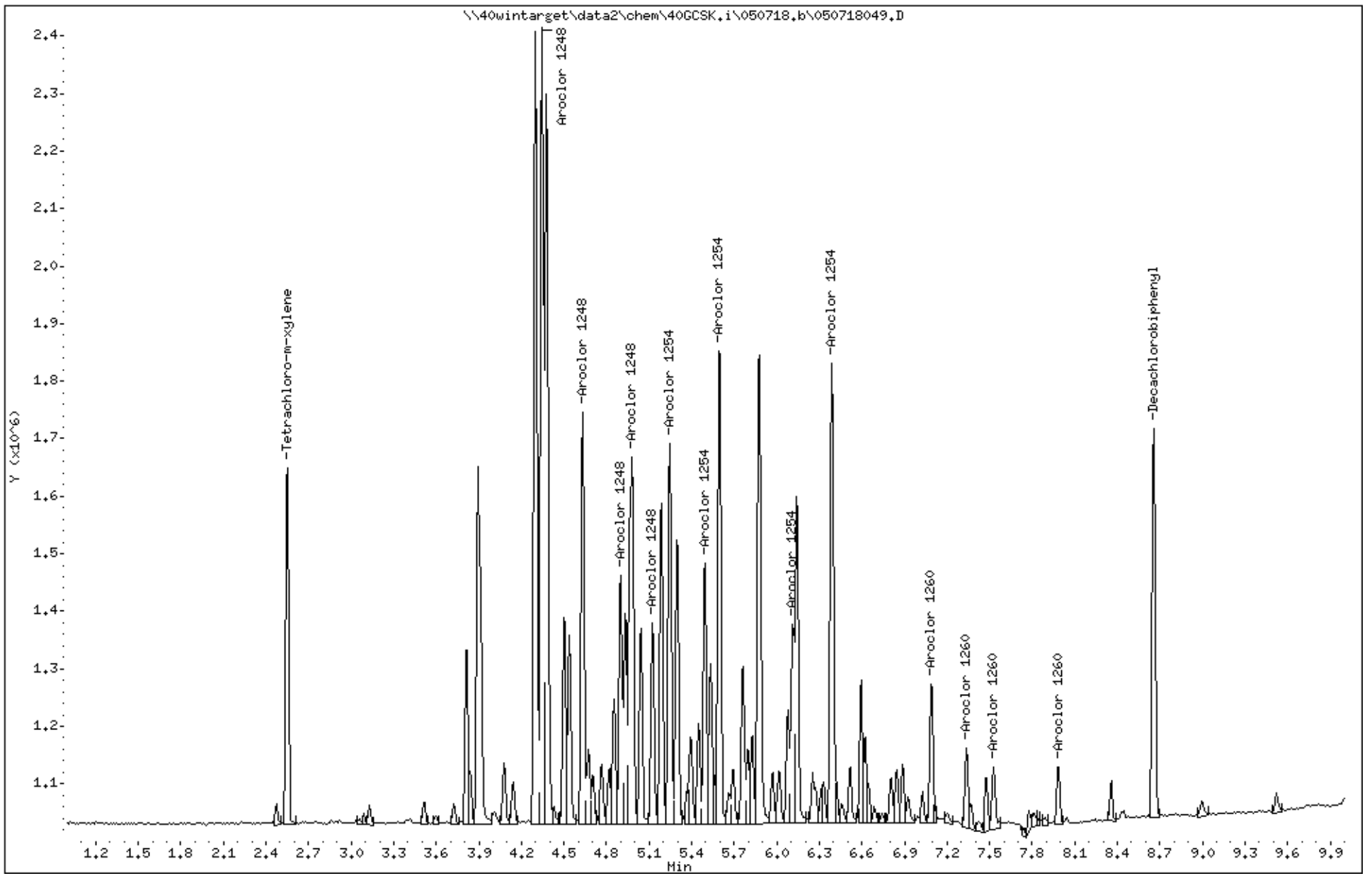
M - Compound response manually integrated.

Review Codes Legend

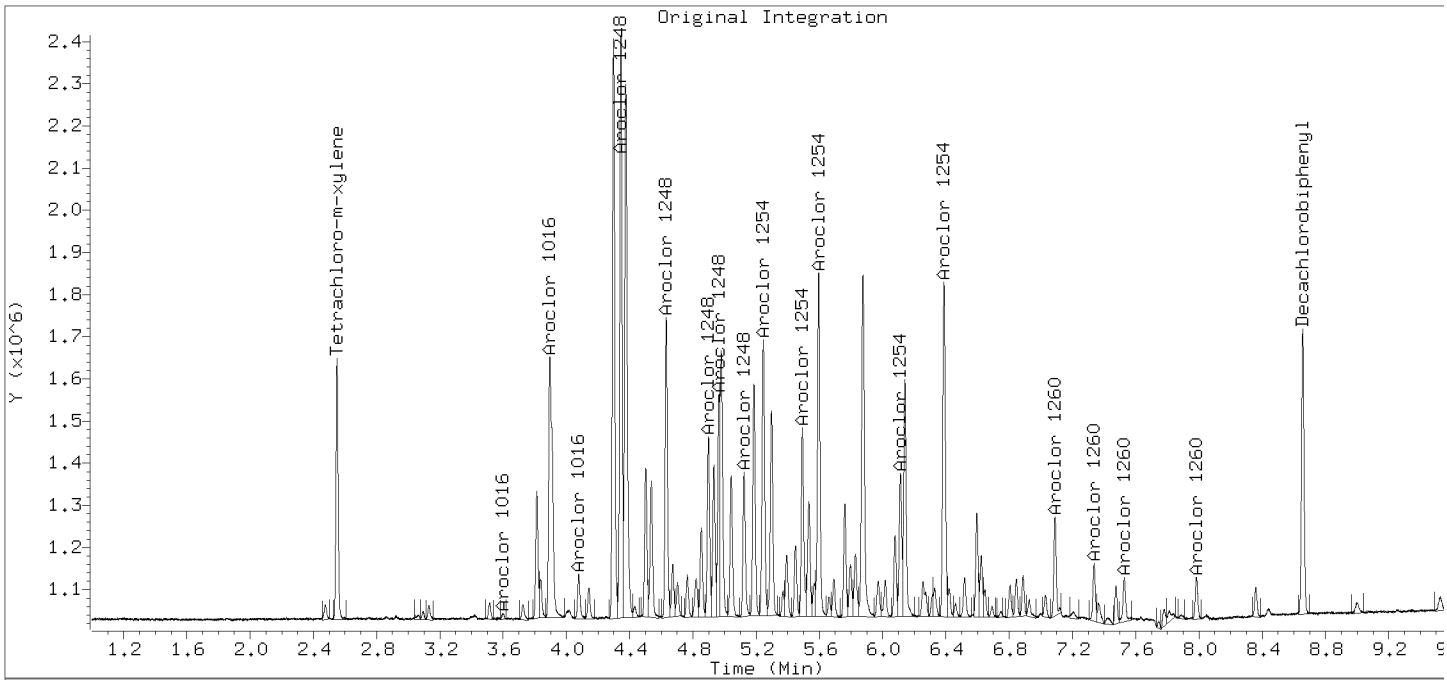
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

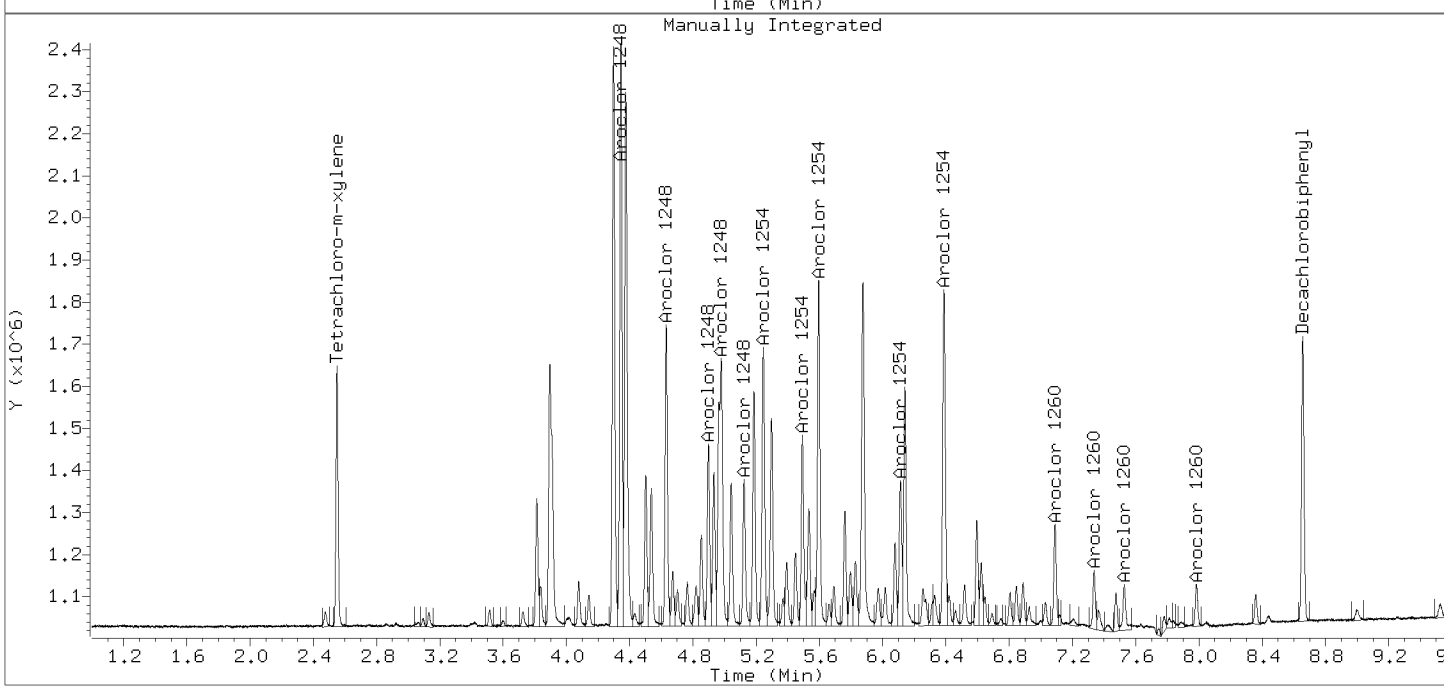
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718049.D
Date : 08-MAY-2018 01:59
Client ID: ND5-170829-01-SPSH-
Sample Info: 40158017008 x20,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718049.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 01:59 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017008





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	1416172	1425748	BA
Aroclor 1248	1416172	1425748	BA
Aroclor 1248	1416172	1425748	BA
Aroclor 1248	1416172	1425748	BA
Aroclor 1248	1416172	1425748	BA
Aroclor 1254	745386	770843	BA
Aroclor 1254	745386	770843	BA
Aroclor 1254	745386	770843	BA
Aroclor 1254	745386	770843	BA
Aroclor 1254	745386	770843	BA
Aroclor 1260	941849	0	CO
Aroclor 1260	941849	0	CO
Aroclor 1260	941849	0	CO
Aroclor 1260	941849	0	CO
Aroclor 1260	941849	0	CO
Tetrachloro-m-xylene	598242	598242	
Decachlorobiphenyl	753837	753837	

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SAMPLE NO.

ND5-170829-01-SPSH-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40158017009
Date Analyzed: 05/08/2018 02:15
Lab File ID: 050718.B\050718050.D
Initial wt/vol: 10.0324 Final wt/vol: 5 mL Dilution: 20
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<227	U
11104-28-2	PCB-1221 (Aroclor 1221)	<227	U
11141-16-5	PCB-1232 (Aroclor 1232)	<227	U
53469-21-9	PCB-1242 (Aroclor 1242)	<227	U
12672-29-6	PCB-1248 (Aroclor 1248)	3150	
11097-69-1	PCB-1254 (Aroclor 1254)	1200	
11096-82-5	PCB-1260 (Aroclor 1260)	290	J
1336-36-3	PCB, Total	4640	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718050.D
Lab Smp Id: 40158017009 Client Smp ID: ND5-170829-01-SPSH-
Inj Date : 08-MAY-2018 02:15
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017009 x20,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 50
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.032	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.475	46154	40546	0.878	0.17		
2.550	632099	658756	1.042	2.42	$ 2 Tetrachloro-m-xylene	
2.858	10182	9376	0.921	0.03		
2.924	11502	9670	0.841	0.04		
3.061	12369	11225	0.908	0.04		
3.094	22196	22873	1.030	0.08		
3.131	44102	41988	0.952	0.16		
3.393	15414	11701	0.759	0.05		
3.420	18719	13822	0.738	0.07		
3.513	51292	46314	0.903	0.19		
3.600	22168	17513	0.790	0.08		
3.726	35112	32220	0.918	0.13		
3.813	298485	295760	0.991	1.14		
3.837	125100	112160	0.897	0.48		
3.896	666870	702744	1.054	2.56		
3.908	691670	700912	1.013	2.65		
4.007	54609	30061	0.550	0.20		
4.078	210127	183581	0.874	0.80		
4.142	101200	88690	0.876	0.38		
4.298	1392525	1312921	0.943	5.35		
4.345	1382504	1293439	0.936	5.31	6 Aroclor 1248	BA
4.376	1331822	1147608	0.862	5.11		
4.432	35422	25939	0.732	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.501	622487	594684	0.955	2.39	
4.537	531324	472016	0.888	2.04	
4.631	893480	853787	0.956	3.43	6 Aroclor 1248
4.673	107196	99367	0.927	0.41	
4.704	150611	130496	0.866	0.57	
4.764	94755	82325	0.869	0.36	
4.818	114679	80658	0.703	0.44	
4.853	224915	207750	0.924	0.86	
4.898	675096	638319	0.946	2.59	6 Aroclor 1248
4.933	634077	599235	0.945	2.43	
4.964	1487483	832028	0.559	6.19	6 Aroclor 1248
5.042	338088	292699	0.866	1.29	
5.123	711926	656407	0.922	2.73	6 Aroclor 1248
5.186	556853	497256	0.893	2.13	
5.245	799990	700222	0.875	3.07	7 Aroclor 1254
5.298	606786	531356	0.876	2.33	
5.369	59162	57508	0.972	0.22	
5.393	176045	146374	0.831	0.67	
5.449	250052	233888	0.935	0.96	
5.492	563618	513034	0.910	2.16	7 Aroclor 1254
5.533	386205	325975	0.844	1.48	
5.569	75279	76010	1.010	0.28	
5.595	1034527	914602	0.884	3.97	7 Aroclor 1254
5.664	48638	37687	0.775	0.18	
5.691	152392	132755	0.871	0.58	
5.761	242931	227228	0.935	0.93	
5.797	145477	115119	0.791	0.55	
5.828	180373	140936	0.781	0.69	
5.876	1122207	885901	0.789	4.31	
5.973	119365	88532	0.742	0.45	
6.016	95031	77470	0.815	0.36	
6.078	185759	171314	0.922	0.71	
6.112	492578	438215	0.890	1.89	7 Aroclor 1254
6.141	635396	540996	0.851	2.44	
6.255	151467	91797	0.606	0.58	
6.314	50141	56812	1.133	0.19	
6.327	85187	69403	0.815	0.32	
6.387	903776	774481	0.857	3.47	7 Aroclor 1254
6.420	84367	76296	0.904	0.32	
6.461	46837	39317	0.839	0.17	
6.517	104269	82607	0.792	0.40	
6.596	231583	206349	0.891	0.88	
6.623	173001	156426	0.904	0.66	
6.647	59025	62317	1.056	0.22	
6.690	33775	29143	0.863	0.12	
6.742	15890	15728	0.990	0.06	
6.803	82883	72773	0.878	0.31	
6.845	93048	83884	0.902	0.35	
6.887	124325	105074	0.845	0.47	
6.928	60415	42208	0.699	0.23	
6.998	19920	15073	0.757	0.07	
7.029	61378	57332	0.934	0.23	
7.088	258376	218069	0.844	0.99	8 Aroclor 1260
7.122	32398	28045	0.866	0.12	
7.208	33850	17561	0.519	0.13	
7.337	147961	130213	0.880	0.56	8 Aroclor 1260
7.367	60558	44296	0.731	0.23	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.423	36965	19618	0.531	0.14	
7.475	89315	83625	0.936	0.34	
7.527	127397	93257	0.732	0.48	8 Aroclor 1260
7.564	6842	13102	1.915	0.02	
7.634	18563	14637	0.789	0.07	
7.711	13136	12403	0.944	0.05	
7.745	15889	17595	1.107	0.06	
7.778	42224	36652	0.868	0.16	
7.813	25978	21681	0.835	0.09	
7.984	98264	89881	0.915	0.37	8 Aroclor 1260
8.359	70643	62405	0.883	0.27	
8.442	14235	9971	0.700	0.05	
8.657	780428	717318	0.919	2.99	$ 12 Decachlorobiphenyl
9.004	18746	13178	0.703	0.07	
9.524	28508	16251	0.570	0.10	
	26027986	22898746		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718050.D
Lab Smp Id: 40158017009 Client Smp ID: ND5-170829-01-SPSH-
Inj Date : 08-MAY-2018 02:15
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017009 x20,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 50
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.032	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.550	2.549	0.001	632099	0.00525	52			

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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			
4.344	4.343	0.001	1382504	0.57958	5800	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	893479	0.21036	2100	0.00- 20.00	64.63	BA
4.897	4.898	-0.001	675096	0.33141	3300	0.00- 20.00	48.83	BA
4.964	4.963	0.001	1487483	0.27157	2700	0.00- 20.00	107.59	BA
5.122	5.123	-0.001	711926	0.18818	1900	0.00- 20.00	51.50	BA
Average of Peak Concentrations =					3200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.245	5.248	-0.003	799990	0.14185	1400	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	563617	0.12085	1200	0.00- 20.00	70.45	BA
5.595	5.596	-0.001	1034527	0.12083	1200	0.00- 20.00	129.32	BA
6.111	6.113	-0.002	492577	0.09271	920	0.00- 20.00	61.57	BA
6.387	6.387	0.000	903776	0.12345	1200	0.00- 20.00	112.97	BA
Average of Peak Concentrations =					1200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.088	7.090	-0.002	258375	0.02195	220	0.00- 20.00	28.59	CO
7.336	7.338	-0.002	147960	0.02616	260	0.00- 20.00	16.37	CO
7.527	7.529	-0.002	127396	0.03726	370	0.00- 20.00	14.84	CO
7.983	7.987	-0.004	98264	0.03103	310	0.00- 20.00	10.87	CO
Average of Peak Concentrations =					290			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	780427	0.00586	58			

QC Flag Legend

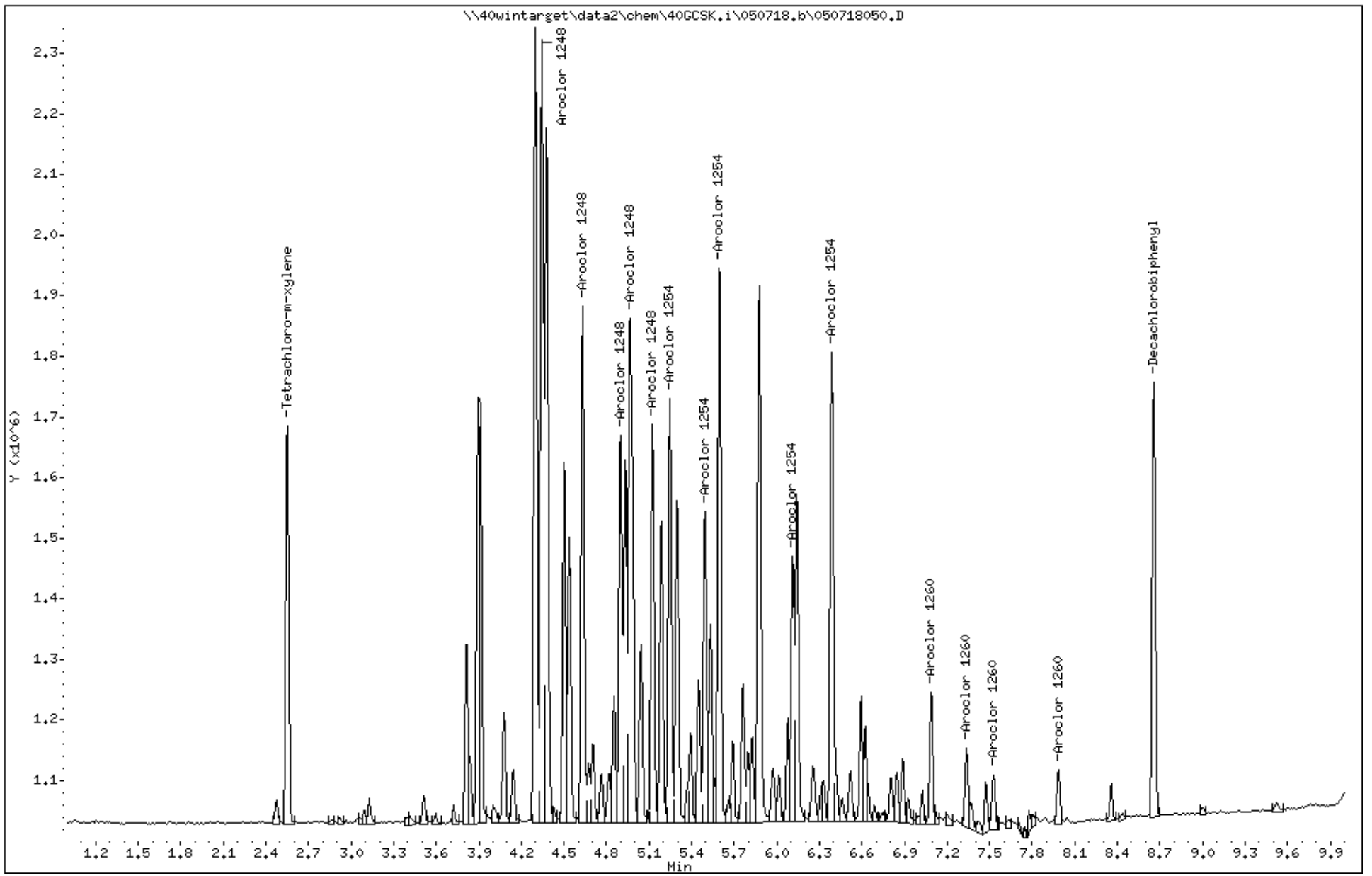
M - Compound response manually integrated.

Review Codes Legend

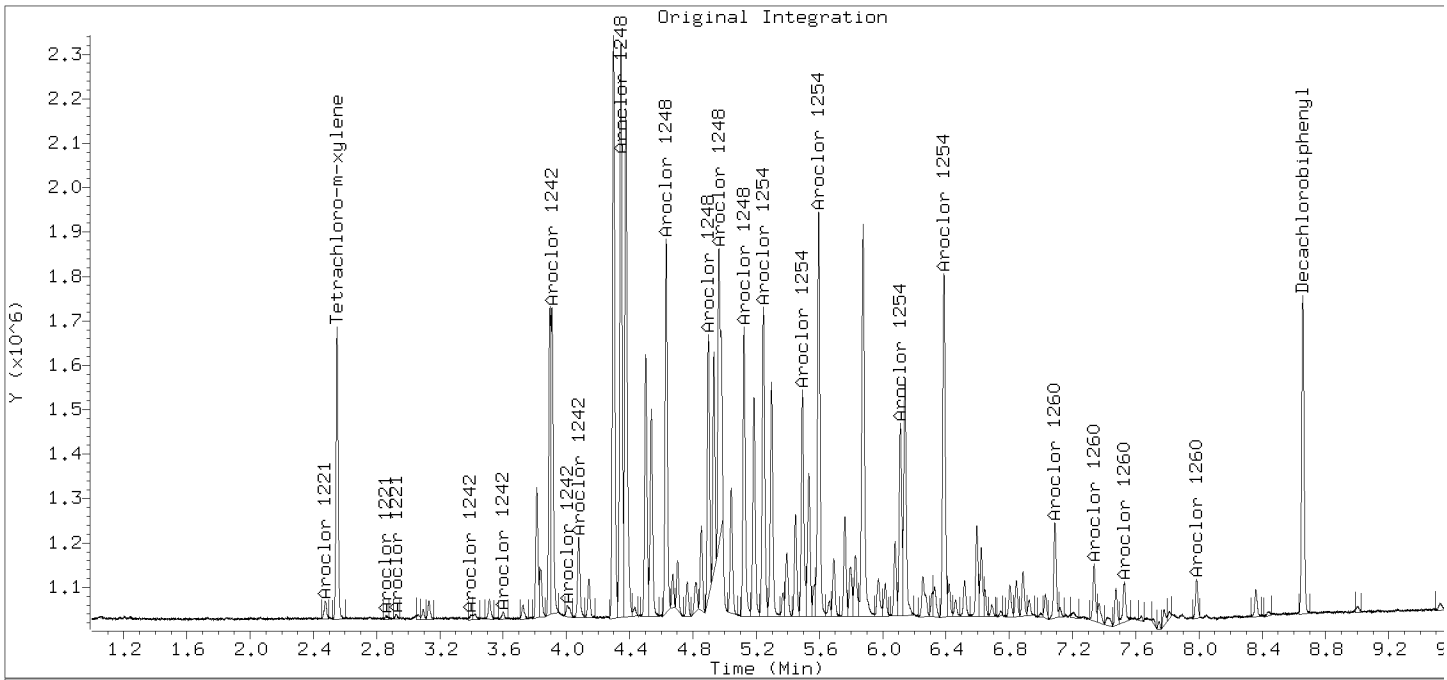
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

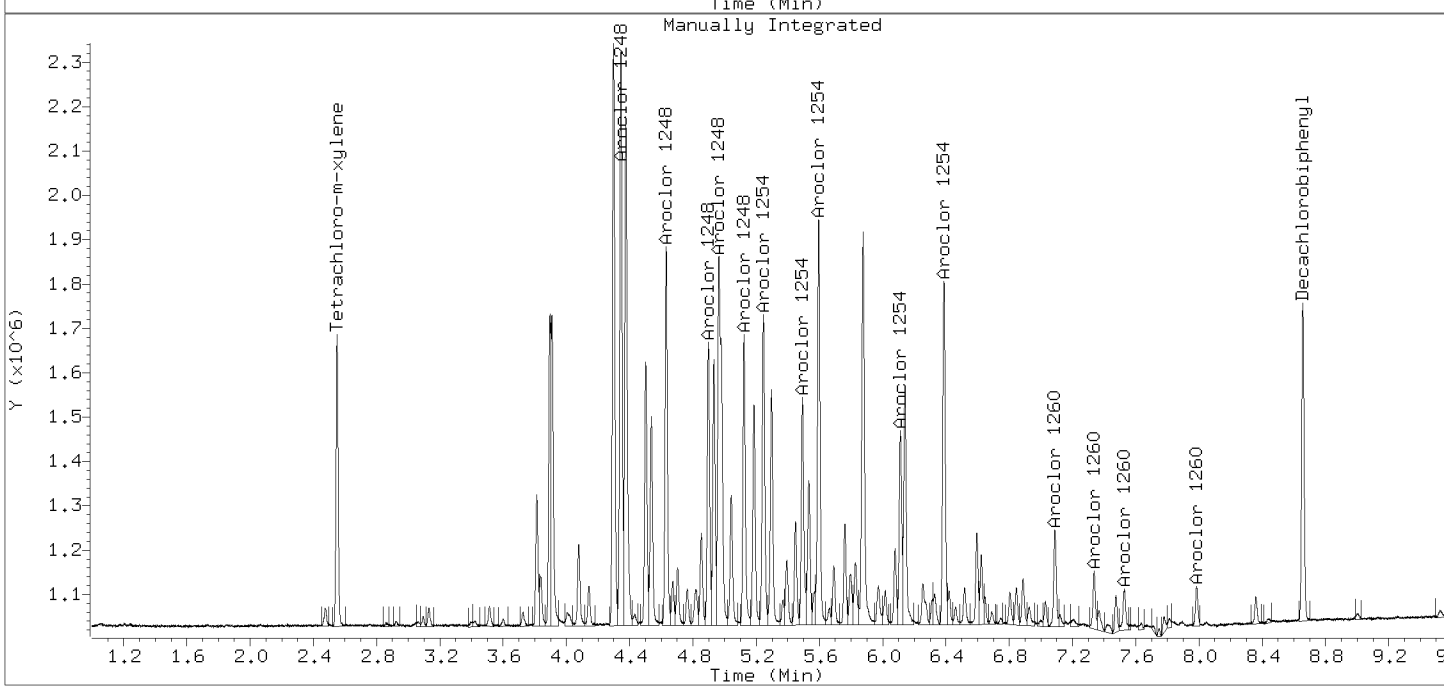
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718050.D
Date : 08-MAY-2018 02:15
Client ID: ND5-170829-01-SPSH-
Sample Info: 40158017009 x20,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718050.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 02:15 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017009





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	15414	0	
Aroclor 1016	15414	0	
Aroclor 1016	15414	0	
Aroclor 1016	15414	0	
Aroclor 1016	15414	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	11502	0	
Aroclor 1232	11502	0	
Aroclor 1232	11502	0	
Aroclor 1232	11502	0	

Aroclor 1232	11502	0	
Aroclor 1242	15414	0	
Aroclor 1242	15414	0	
Aroclor 1242	15414	0	
Aroclor 1242	15414	0	
Aroclor 1242	15414	0	
Aroclor 1248	1374221	1382504	BA
Aroclor 1248	1374221	1382504	BA
Aroclor 1248	1374221	1382504	BA
Aroclor 1248	1374221	1382504	BA
Aroclor 1248	1374221	1382504	BA
Aroclor 1254	786562	799990	BA
Aroclor 1254	786562	799990	BA
Aroclor 1254	786562	799990	BA
Aroclor 1254	786562	799990	BA
Aroclor 1254	786562	799990	BA
Aroclor 1260	899883	0	CO
Aroclor 1260	899883	0	CO
Aroclor 1260	899883	0	CO
Aroclor 1260	899883	0	CO
Aroclor 1260	899883	0	CO
Tetrachloro-m-xylene	632099	632099	
Decachlorobiphenyl	780427	780427	

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SAMPLE NO.

ND5-170829-01-SPSH-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/01/2018 07:23
Lab Sample ID: 40158017010
Date Analyzed: 05/08/2018 02:31
Lab File ID: 050718.B\050718051.D
Initial wt/vol: 9.9712 g Final wt/vol: 5 mL Dilution: 20
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<229	U
11104-28-2	PCB-1221 (Aroclor 1221)	<229	U
11141-16-5	PCB-1232 (Aroclor 1232)	<229	U
53469-21-9	PCB-1242 (Aroclor 1242)	<229	U
12672-29-6	PCB-1248 (Aroclor 1248)	2410	
11097-69-1	PCB-1254 (Aroclor 1254)	1030	
11096-82-5	PCB-1260 (Aroclor 1260)	268	J
1336-36-3	PCB, Total	3710	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718051.D
Lab Smp Id: 40158017010 Client Smp ID: ND5-170829-01-SPSH-
Inj Date : 08-MAY-2018 02:31
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017010 x20,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 51
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.971	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.476	43108	39248	0.910	0.19		
2.550	564866	592201	1.048	2.61	$ 2 Tetrachloro-m-xylene	
2.926	12397	9001	0.726	0.05		
3.050	16678	8753	0.525	0.07		
3.091	15465	17458	1.129	0.07		
3.131	34631	35306	1.019	0.16		
3.423	10192	8293	0.814	0.04		
3.514	41640	36230	0.870	0.19		
3.597	12781	12220	0.956	0.05		
3.726	33435	28366	0.848	0.15		
3.813	267613	256619	0.959	1.23		
3.838	106779	92723	0.868	0.49		
3.895	988643	560059	0.566	4.57		
4.006	36507	23663	0.648	0.16		
4.079	134855	114217	0.847	0.62		
4.142	80410	67660	0.841	0.37		
4.298	1178435	1125141	0.955	5.45		
4.345	1160009	1083943	0.934	5.37	6 Aroclor 1248	BA
4.376	1214772	1059369	0.872	6.05		
4.433	38670	24274	0.628	0.17		
4.502	417505	397423	0.952	1.93		
4.537	366435	317709	0.867	1.69		
4.631	678472	648018	0.955	3.14	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.671	99515	90987	0.914	0.46	
4.704	102198	85036	0.832	0.47	
4.766	87661	74575	0.851	0.40	
4.820	101442	74619	0.736	0.46	
4.852	191257	175420	0.917	0.88	
4.898	473024	450319	0.952	2.19	6 Aroclor 1248
4.932	426547	394607	0.925	1.97	
4.964	1138719	590159	0.518	5.27	6 Aroclor 1248
5.042	289519	251459	0.869	1.34	
5.124	440436	382868	0.869	2.04	6 Aroclor 1248
5.187	478392	429176	0.897	2.21	
5.246	683793	598942	0.876	3.16	7 Aroclor 1254
5.297	545150	473772	0.869	2.52	
5.370	57364	57158	0.996	0.26	
5.393	156717	127631	0.814	0.72	
5.448	199853	182682	0.914	0.92	
5.493	462255	415023	0.898	2.14	7 Aroclor 1254
5.533	330767	270856	0.819	1.53	
5.567	68541	65927	0.962	0.31	
5.596	869011	778251	0.896	4.02	7 Aroclor 1254
5.661	39896	36268	0.909	0.18	
5.691	119773	100143	0.836	0.55	
5.761	228212	215371	0.944	1.05	
5.796	125476	106121	0.846	0.58	
5.827	172297	130443	0.757	0.79	
5.875	991877	786333	0.793	4.59	
5.970	106680	80416	0.754	0.49	
6.015	97346	72756	0.747	0.45	
6.079	176523	162136	0.918	0.81	
6.112	409333	349751	0.854	1.89	7 Aroclor 1254
6.141	598884	507003	0.847	2.77	
6.255	117949	84556	0.717	0.54	
6.315	49739	54578	1.097	0.23	
6.329	82698	64676	0.782	0.38	
6.387	850428	728044	0.856	3.93	7 Aroclor 1254
6.421	84237	71627	0.850	0.39	
6.462	49673	35139	0.707	0.23	
6.519	98673	78189	0.792	0.45	
6.596	219326	199073	0.908	1.01	
6.624	205427	147654	0.719	0.95	
6.688	39972	29256	0.732	0.18	
6.745	19371	15281	0.789	0.08	
6.804	79259	65336	0.824	0.36	
6.846	88158	77296	0.877	0.40	
6.888	113720	100070	0.880	0.52	
6.927	48563	39521	0.814	0.22	
7.028	59185	49823	0.842	0.27	
7.090	224171	207043	0.924	1.03	8 Aroclor 1260
7.121	20517	22084	1.076	0.09	
7.206	17892	14092	0.788	0.08	
7.338	136984	121314	0.886	0.63	8 Aroclor 1260
7.369	61048	43171	0.707	0.28	
7.418	24547	16113	0.656	0.11	
7.476	82317	77893	0.946	0.38	
7.529	120561	87705	0.727	0.55	8 Aroclor 1260
7.744	16044	17731	1.105	0.07	
7.778	40253	33702	0.837	0.18	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.984	89260	79828	0.894	0.41	8 Aroclor 1260
8.361	63618	55097	0.866	0.29	
8.435	17924	13182	0.735	0.08	
8.656	713910	629216	0.881	3.30	$ 12 Decachlorobiphenyl
9.001	16235	13318	0.820	0.07	
9.522	15572	14405	0.925	0.07	
	21589987	18360115		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718051.D
Lab Smp Id: 40158017010 Client Smp ID: ND5-170829-01-SPSH-
Inj Date : 08-MAY-2018 02:31
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017010 x20,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 51
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.971	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

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

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
2.549	2.549	0.000	564866	0.00469	47			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1160008	0.48631	4900	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	678472	0.15974	1600	0.00- 20.00	58.49	BA
4.897	4.898	-0.001	473023	0.23221	2300	0.00- 20.00	40.78	BA
4.964	4.963	0.001	1138718	0.20789	2100	0.00- 20.00	98.16	BA
5.123	5.123	0.000	440436	0.11642	1200	0.00- 20.00	37.97	BA
Average of Peak Concentrations =					2400			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	683793	0.12125	1200	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	462255	0.09912	990	0.00- 20.00	67.60	BA
5.595	5.596	-0.001	869011	0.10150	1000	0.00- 20.00	127.09	BA
6.111	6.113	-0.002	409333	0.07705	770	0.00- 20.00	59.86	BA
6.386	6.387	-0.001	850428	0.11616	1200	0.00- 20.00	124.37	BA
Average of Peak Concentrations =					1000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	CO
7.089	7.090	-0.001	224171	0.01905	190	0.00- 20.00	28.74	CO
7.337	7.338	-0.001	136983	0.02422	240	0.00- 20.00	16.11	CO
7.528	7.529	-0.001	120560	0.03526	350	0.00- 20.00	14.18	CO
7.984	7.987	-0.003	89260	0.02818	280	0.00- 20.00	10.50	CO
Average of Peak Concentrations =					270			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.655	8.657	-0.002	713909	0.00536	54			

QC Flag Legend

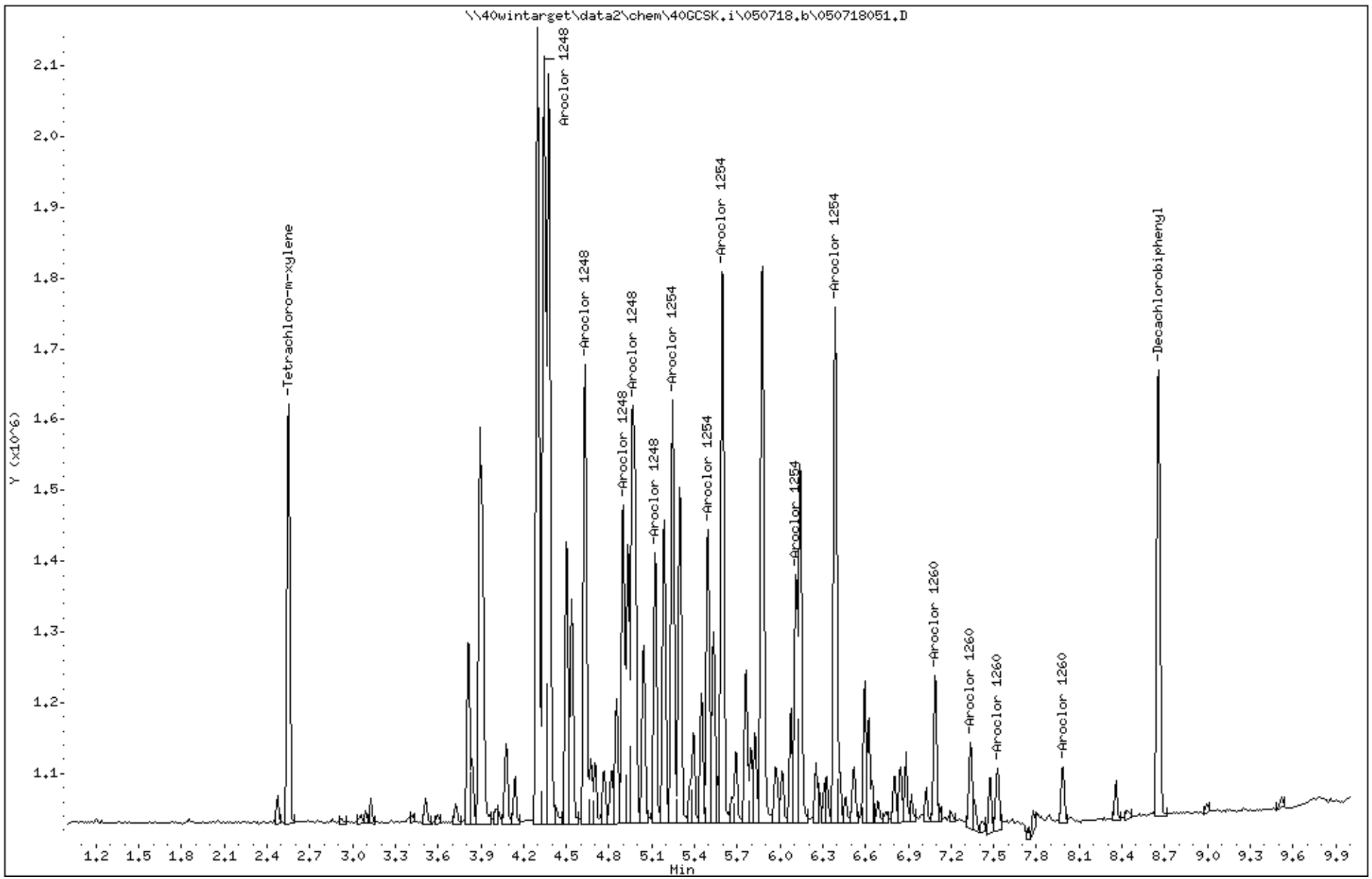
M - Compound response manually integrated.

Review Codes Legend

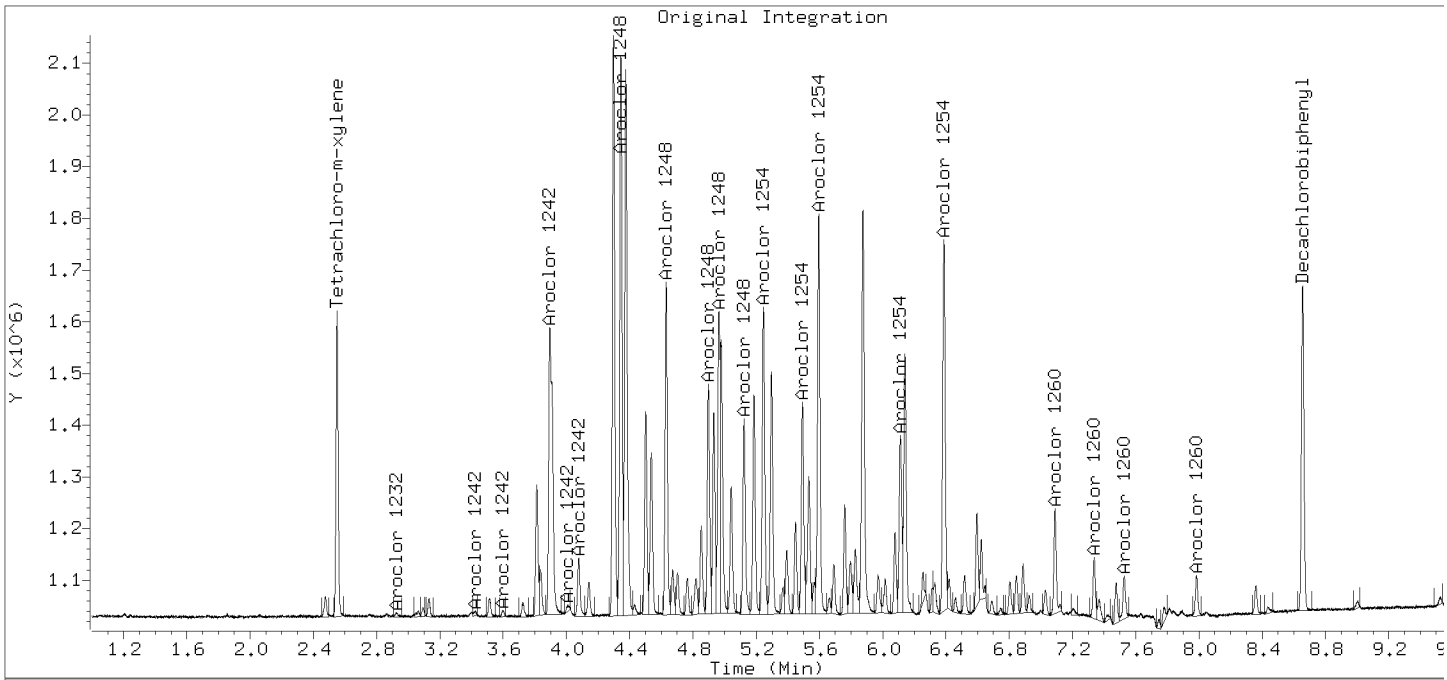
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

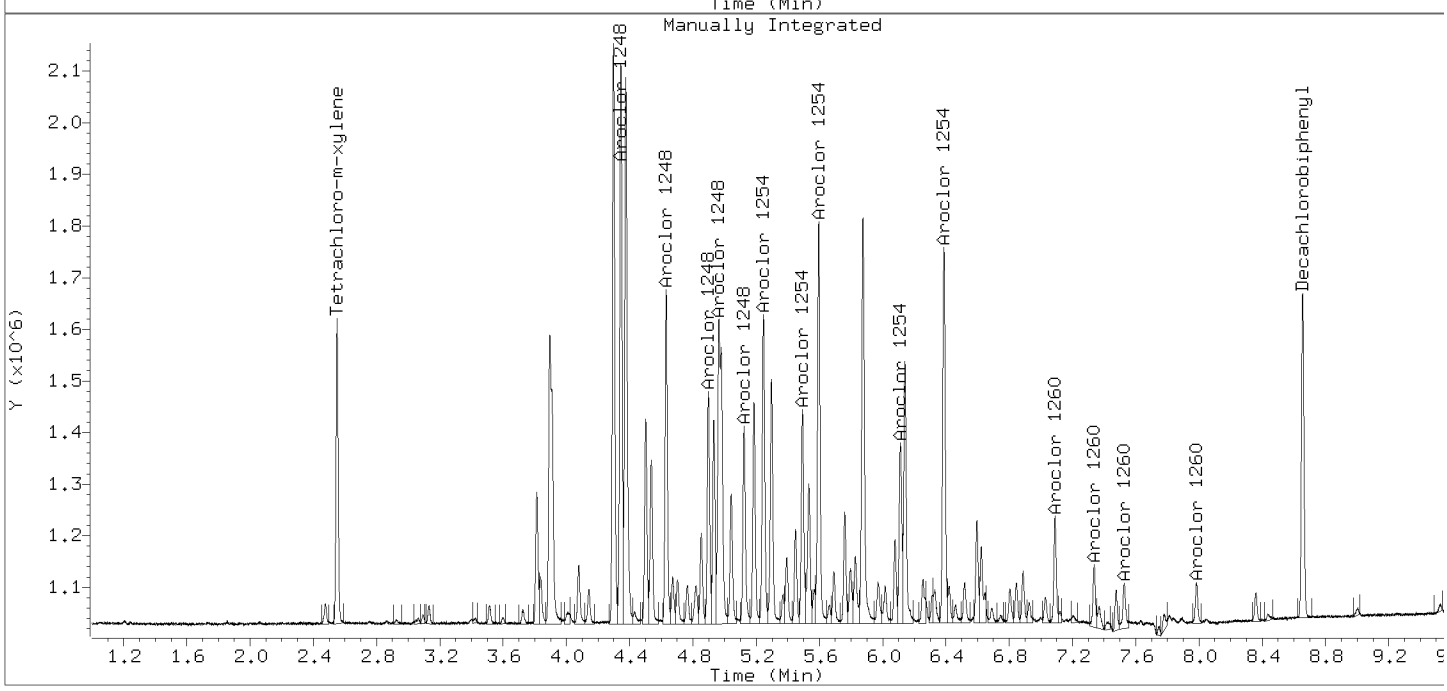
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718051.D
Date : 08-MAY-2018 02:31
Client ID: ND5-170829-01-SPSH-
Sample Info: 40158017010 x20,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718051.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 02:31 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017010





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	10191	0	
Aroclor 1016	10191	0	
Aroclor 1016	10191	0	
Aroclor 1016	10191	0	
Aroclor 1016	10191	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1221	0	0	
Aroclor 1232	12397	0	
Aroclor 1232	12397	0	
Aroclor 1232	12397	0	
Aroclor 1232	12397	0	

Aroclor 1232	12397	0	
Aroclor 1242	10191	0	
Aroclor 1242	10191	0	
Aroclor 1242	10191	0	
Aroclor 1242	10191	0	
Aroclor 1242	10191	0	
Aroclor 1248	1151789	1160008	BA
Aroclor 1248	1151789	1160008	BA
Aroclor 1248	1151789	1160008	BA
Aroclor 1248	1151789	1160008	BA
Aroclor 1248	1151789	1160008	BA
Aroclor 1254	669312	683793	BA
Aroclor 1254	669312	683793	BA
Aroclor 1254	669312	683793	BA
Aroclor 1254	669312	683793	BA
Aroclor 1254	669312	683793	BA
Aroclor 1260	823533	0	CO
Aroclor 1260	823533	0	CO
Aroclor 1260	823533	0	CO
Aroclor 1260	823533	0	CO
Aroclor 1260	823533	0	CO
Tetrachloro-m-xylene	564866	564866	
Decachlorobiphenyl	713909	713909	

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SAMPLE NO.

FD1-170829-01-MMSH-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/04/2018 07:32
Lab Sample ID: 40158017011
Date Analyzed: 05/08/2018 16:11
Lab File ID: 050718.B\050718084.D
Initial wt/vol: 10.0015 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	50.0	J
11097-69-1	PCB-1254 (Aroclor 1254)	35.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	29.2	J
1336-36-3	PCB, Total	115	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718084.D
Lab Smp Id: 40158017011 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 08-MAY-2018 16:11
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017011,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 84
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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.002	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.040	46320	22421	0.484	0.09		
1.082	50372	29918	0.594	0.09		
1.118	29378	21650	0.737	0.05		
1.143	10323	17937	1.738	0.02		
1.159	33138	33414	1.008	0.06		
1.181	62380	63045	1.011	0.12		
1.205	33515	31162	0.930	0.06		
1.228	65077	52068	0.800	0.12		
1.285	11887	9625	0.810	0.02		
1.361	11976	12752	1.065	0.02		
1.416	20794	14679	0.706	0.04		
1.463	22329	23495	1.052	0.04		
1.509	9691	10508	1.084	0.01		
1.533	29538	24216	0.820	0.05		
1.595	24791	29324	1.183	0.04		
1.659	27008	27165	1.006	0.05		
1.823	313024	309342	0.988	0.61		
1.983	12962	14151	1.092	0.02		
2.003	28493	28116	0.987	0.05		
2.028	28618	30729	1.074	0.05		
2.050	27461	20156	0.734	0.05		
2.121	58483	47696	0.816	0.11		
2.193	88932	60738	0.683	0.17		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.230	87226	92193	1.057	0.17	
2.272	31338	28616	0.913	0.06	
2.317	20537	23312	1.135	0.04	
2.355	93577	94065	1.005	0.18	
2.379	130489	131529	1.008	0.25	
2.422	31814	25083	0.788	0.06	
2.460	47833	52110	1.089	0.09	
2.474	74695	74921	1.003	0.14	
2.514	39960	33244	0.832	0.07	
2.550	12484295	12939728	1.036	25.12	$ 2 Tetrachloro-m-xyle
2.616	86884	51739	0.595	0.16	
2.678	48994	24901	0.508	0.09	
2.710	46525	30395	0.653	0.09	
2.791	43376	28760	0.663	0.08	
2.858	32865	28262	0.860	0.06	
2.889	31022	22210	0.716	0.06	
2.928	56896	39799	0.700	0.11	4 Aroclor 1232
2.971	326617	284971	0.872	0.63	
3.049	104347	98941	0.948	0.20	
3.065	222752	200220	0.899	0.43	
3.094	244218	244949	1.003	0.47	
3.137	14901	16567	1.112	0.02	
3.239	54206	37440	0.691	0.10	
3.323	42866	22977	0.536	0.08	
3.395	19627	15418	0.786	0.03	3 Aroclor 1242
3.522	22715	13245	0.583	0.04	
3.590	11987	7581	0.632	0.02	3 Aroclor 1242
3.722	11169	10042	0.899	0.02	
3.836	14106	11045	0.783	0.02	
3.867	14266	14419	1.011	0.02	
3.908	145664	93595	0.643	0.28	3 Aroclor 1242
4.011	14245	13236	0.929	0.02	3 Aroclor 1242
4.078	19315	23155	1.199	0.03	3 Aroclor 1242
4.134	76429	67260	0.880	0.14	
4.190	54550	37385	0.685	0.10	
4.298	176031	153563	0.872	0.34	
4.345	190639	186468	0.978	0.37	6 Aroclor 1248
4.377	150266	105238	0.700	0.29	
4.430	38564	29809	0.773	0.07	
4.501	71041	72503	1.021	0.13	
4.537	66643	67093	1.007	0.13	
4.599	353683	338721	0.958	0.69	
4.630	221878	203400	0.917	0.43	6 Aroclor 1248
4.706	33025	27157	0.822	0.06	
4.764	27306	18422	0.675	0.05	
4.797	12479	15041	1.205	0.02	
4.811	46912	27862	0.594	0.09	
4.852	70620	52766	0.747	0.13	
4.897	303232	276196	0.911	0.59	6 Aroclor 1248
4.932	316356	283604	0.896	0.61	
4.963	708448	503419	0.711	1.38	6 Aroclor 1248
5.043	122202	83555	0.684	0.23	
5.084	29356	21869	0.745	0.05	
5.123	337700	314054	0.930	0.65	6 Aroclor 1248
5.140	47193	60171	1.275	0.09	
5.186	199451	153428	0.769	0.38	
5.246	441176	381982	0.866	0.86	7 Aroclor 1254

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.300	513338	345654	0.673	1.00	
5.367	53649	39920	0.744	0.10	
5.401	210171	164317	0.782	0.41	
5.450	178812	132043	0.738	0.34	
5.493	262734	226220	0.861	0.51	7 Aroclor 1254
5.537	1573197	1470992	0.935	3.07	
5.596	563973	461815	0.819	1.10	7 Aroclor 1254
5.655	71539	42940	0.600	0.13	
5.692	165353	102193	0.618	0.32	
5.755	467573	327231	0.700	0.91	
5.796	122684	80956	0.660	0.23	
5.826	204723	125473	0.613	0.39	
5.876	1019034	850579	0.835	1.98	
5.909	279452	206046	0.737	0.54	
5.974	59630	56749	0.952	0.11	
5.989	147811	76723	0.519	0.28	
6.054	37276	36741	0.986	0.07	
6.079	193628	161118	0.832	0.37	
6.112	462857	407017	0.879	0.90	7 Aroclor 1254
6.141	871735	732044	0.840	1.70	
6.255	279071	146638	0.525	0.54	
6.292	42223	54593	1.293	0.08	
6.328	1026273	832660	0.811	2.00	
6.386	1064168	876568	0.824	2.07	8 Aroclor 1260
6.420	162125	131557	0.811	0.31	
6.459	87004	49054	0.564	0.16	
6.520	165655	71688	0.433	0.32	
6.571	33776	31994	0.947	0.06	
6.596	318688	286133	0.898	0.62	
6.624	227736	204371	0.897	0.44	
6.663	416135	284138	0.683	0.81	
6.700	20497	24489	1.195	0.04	
6.729	2354687	1902839	0.808	4.59	
6.805	242598	182420	0.752	0.47	
6.839	775766	591283	0.762	1.51	
6.888	234047	158357	0.677	0.45	
6.926	123100	84983	0.690	0.24	
6.954	60301	47861	0.794	0.11	
6.984	85414	45312	0.530	0.16	
7.030	513094	421332	0.821	1.00	
7.090	506992	425096	0.838	0.98	8 Aroclor 1260
7.119	94974	61350	0.646	0.18	
7.164	21181	29689	1.402	0.04	
7.188	212506	75067	0.353	0.41	
7.267	243176	207774	0.854	0.47	
7.338	216185	175333	0.811	0.42	8 Aroclor 1260
7.368	148168	98033	0.662	0.28	
7.425	81495	46186	0.567	0.15	
7.477	102957	99013	0.962	0.20	
7.530	203517	147011	0.722	0.39	8 Aroclor 1260
7.569	267541	112438	0.420	0.52	
7.636	590650	467107	0.791	1.15	
7.672	31632	36984	1.169	0.06	
7.739	149655	108458	0.725	0.29	
7.781	73814	65555	0.888	0.14	
7.814	81461	52453	0.644	0.15	
7.851	58945	39332	0.667	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.902	102817	74331	0.723	0.20	
7.962	63485	45357	0.714	0.12	
7.987	141215	100244	0.710	0.27	8 Aroclor 1260
8.042	61817	40200	0.650	0.12	
8.097	7195	7172	0.997	0.01	
8.134	12820	12066	0.941	0.02	
8.216	36535	24298	0.665	0.07	
8.362	115856	106893	0.923	0.22	
8.464	51288	27423	0.535	0.10	
8.535	16759	16788	1.002	0.03	
8.658	11545594	10616918	0.920	22.54	$ 12 Decachlorobiphenyl
8.724	18887	16797	0.889	0.03	
8.811	22656	18930	0.836	0.04	
8.931	33288	27318	0.821	0.06	
8.998	67805	31442	0.464	0.13	
9.085	15615	14412	0.923	0.03	
9.147	13206	8867	0.671	0.02	
9.254	126845	117734	0.928	0.24	
9.301	35753	24798	0.694	0.06	
9.449	10208	8140	0.797	0.01	
9.482	11755	8369	0.712	0.02	
9.526	15986	12259	0.767	0.03	
9.571	101805	75616	0.743	0.19	
	51218568	45402233		100.000	

Total unknown % area = 41

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718084.D
Lab Smp Id: 40158017011 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 08-MAY-2018 16:11
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017011,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 84
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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.002	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO		REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2				
Operator disabled compound identification.									BA
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8				
2.550	2.549	0.001	12484294	0.10365	52			(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9				
Qualifier signal(s) failed ratio test.									
4 Aroclor 1232					CAS #: 1114-16-5				
Qualifier signal(s) failed ratio test.									BA

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.345	4.343	0.002	190639	0.07992	40	0.00- 20.00	100.00(M)	CO
4.630	4.630	0.000	221877	0.05224	26	0.00- 20.00	116.39	CO
4.896	4.898	-0.002	303232	0.14886	74	0.00- 20.00	159.06	CO
4.963	4.963	0.000	708448	0.12934	65	0.00- 20.00	371.62	CO
5.123	5.123	0.000	337700	0.08926	45	0.00- 20.00	177.14	CO
Average of Peak Concentrations =					50			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	441176	0.07823	39	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	262734	0.05634	28	0.00- 20.00	59.55	BA
5.596	5.596	0.000	563973	0.06587	33	0.00- 20.00	127.83	BA
6.111	6.113	-0.002	462857	0.08712	44	0.00- 20.00	104.91	BA
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					36			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	1064168	0.10631	53	0.00- 20.00	100.00(M)	BA
7.090	7.090	0.000	506992	0.04308	22	0.00- 20.00	47.64	BA
7.337	7.338	-0.001	216185	0.03822	19	0.00- 20.00	20.31	BA
7.530	7.529	0.001	203516	0.05953	30	0.00- 20.00	19.12	BA
7.987	7.987	0.000	141214	0.04459	22	0.00- 20.00	13.27	BA
Average of Peak Concentrations =					29			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	11545593	0.08668	43			

QC Flag Legend

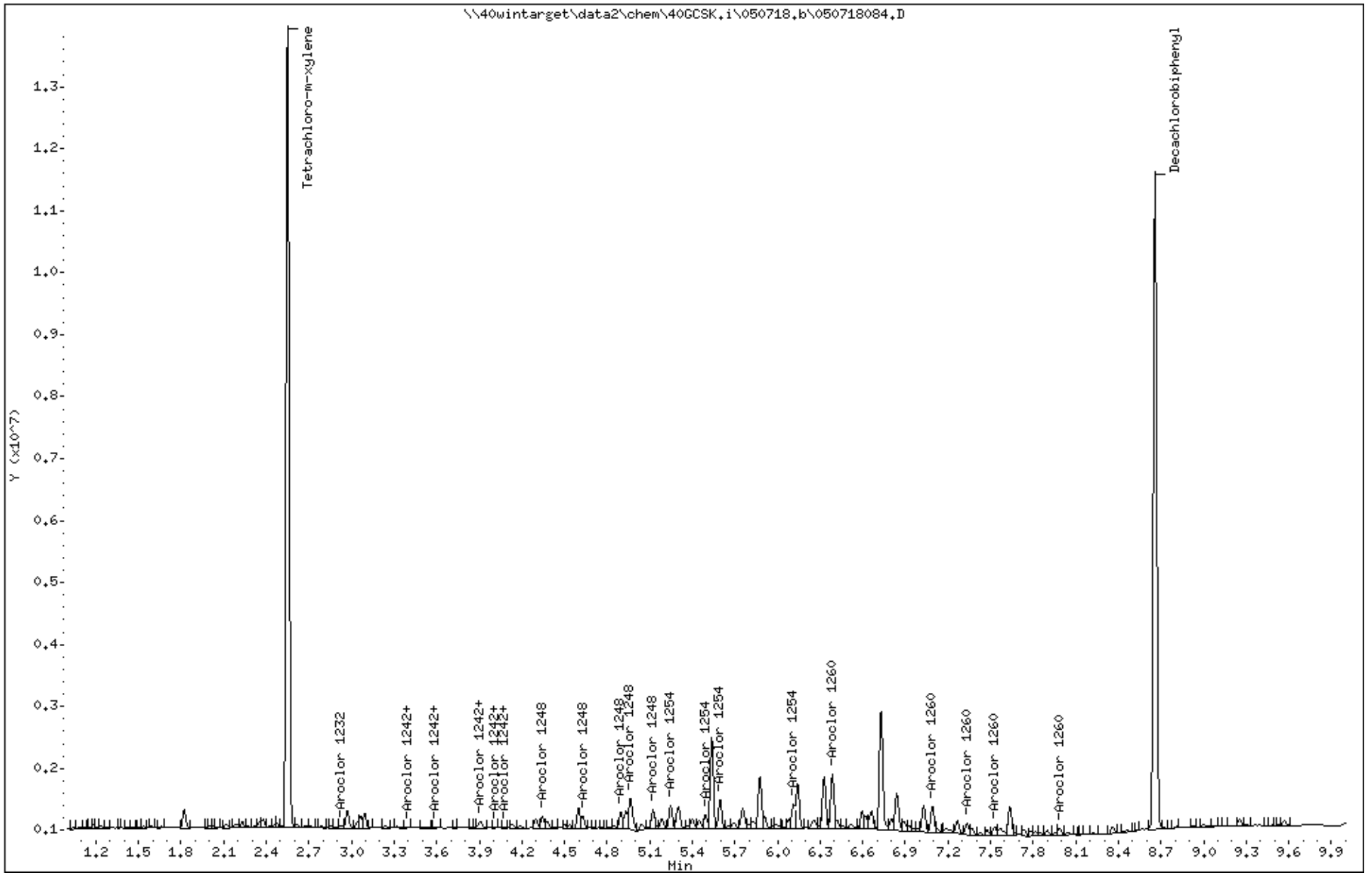
M - Compound response manually integrated.

Review Codes Legend

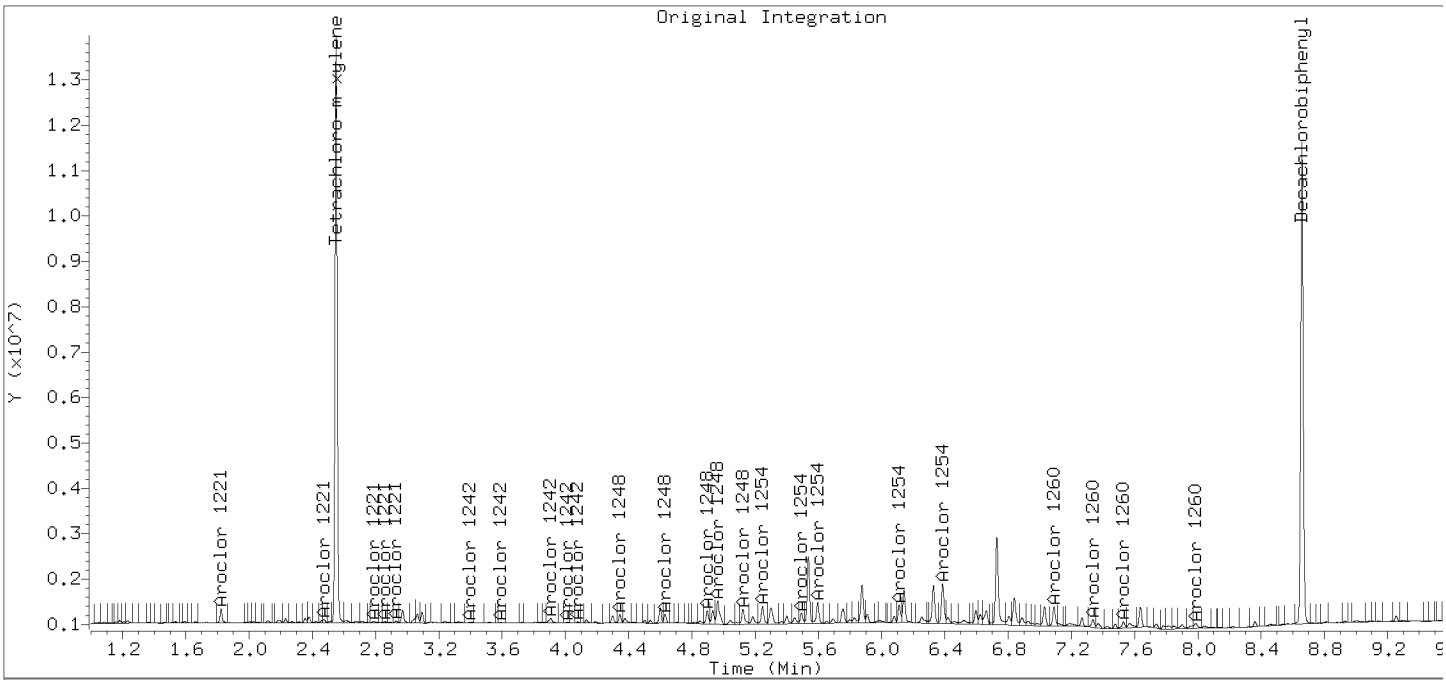
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

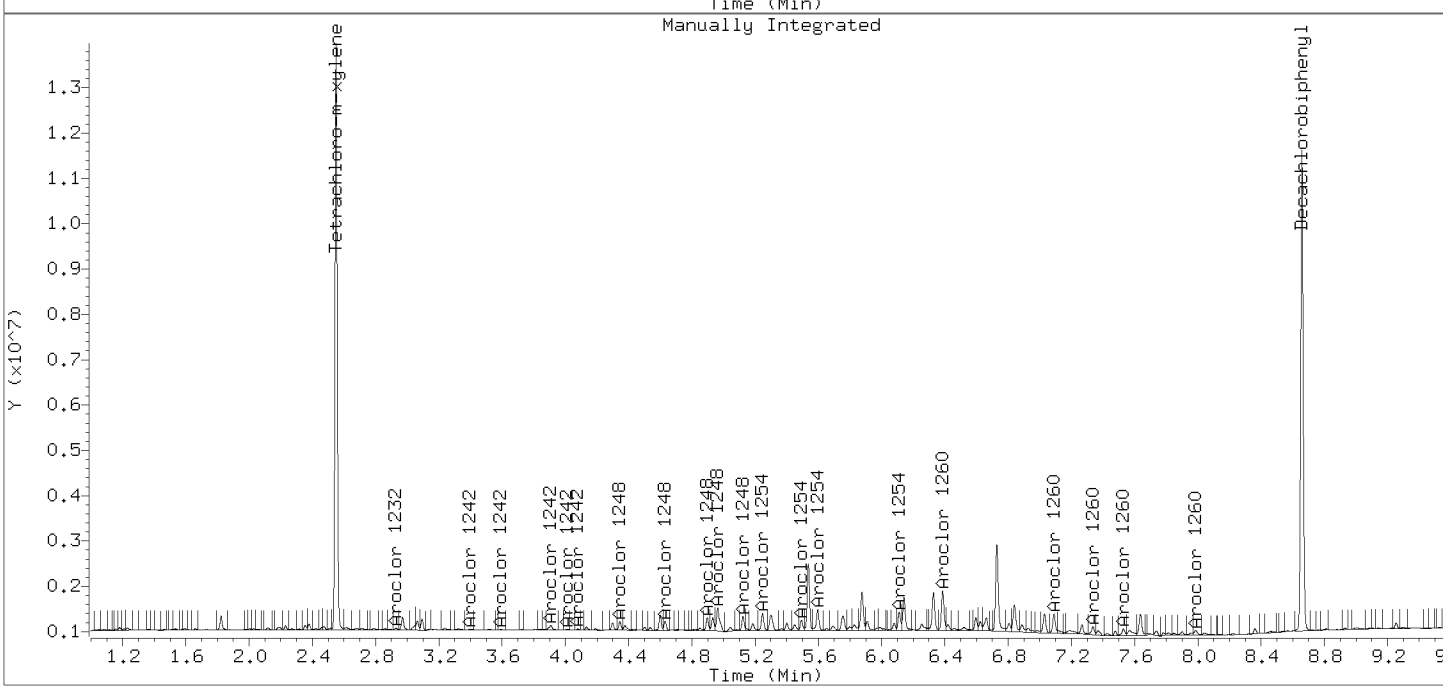
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718084.D
Date : 08-MAY-2018 16:11
Client ID: FD1-170829-01-MMSH-
Sample Info: 40158017011,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718084.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 16:11 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017011





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	313024	0	BA
Aroclor 1221	313024	0	BA
Aroclor 1221	313024	0	BA
Aroclor 1221	313024	0	BA
Aroclor 1221	313024	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA
Aroclor 1232	0	0	BA

Aroclor 1232	0	0	BA
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	170440	190639	CO
Aroclor 1248	170440	190639	CO
Aroclor 1248	170440	190639	CO
Aroclor 1248	170440	190639	CO
Aroclor 1248	170440	190639	CO
Aroclor 1254	494941	441176	BA
Aroclor 1254	494941	441176	BA
Aroclor 1254	494941	441176	BA
Aroclor 1254	494941	441176	BA
Aroclor 1254	494941	441176	BA
Aroclor 1260	1058491	1064168	BA
Aroclor 1260	1058491	1064168	BA
Aroclor 1260	1058491	1064168	BA
Aroclor 1260	1058491	1064168	BA
Aroclor 1260	1058491	1064168	BA
Tetrachloro-m-xylene	12480057	12484294	BA
Decachlorobiphenyl	11545593	11545593	

==========

SAMPLE NO.

FD1-170829-01-MMSH-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/04/2018 07:32
Lab Sample ID: 40158017012
Date Analyzed: 05/08/2018 16:58
Lab File ID: 050718.B\050718087.D
Initial wt/vol: 10.0365 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSK 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)	36.1	J
11097-69-1	PCB-1254 (Aroclor 1254)	27.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	26.8	J
1336-36-3	PCB, Total	90.9	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718087.D
Lab Smp Id: 40158017012 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 08-MAY-2018 16:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017012,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 87
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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.037	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.013	10720	13375	1.248	0.02		
1.048	36648	21160	0.577	0.07		
1.083	16187	13242	0.818	0.03		
1.179	26390	30739	1.165	0.05		
1.209	18310	20817	1.137	0.03		
1.229	44670	38901	0.871	0.09		
1.415	16844	12545	0.745	0.03		
1.466	17091	15754	0.922	0.03		
1.580	17283	10576	0.612	0.03		
1.732	25756	27794	1.079	0.05		
1.823	808906	867055	1.072	1.75		
2.002	12682	13205	1.041	0.02		
2.120	36422	25784	0.708	0.07		
2.188	48193	30472	0.632	0.10		
2.233	50024	48602	0.972	0.10		
2.272	17715	17942	1.013	0.03		
2.355	42379	42595	1.005	0.09		
2.379	57417	58312	1.016	0.12		
2.476	74926	59648	0.796	0.16		
2.550	13006372	13261908	1.020	29.03	$ 2 Tetrachloro-m-xylene	
2.618	32027	24486	0.765	0.06		
2.672	9984	11708	1.173	0.02		
2.687	18105	18090	0.999	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.713	23074	15191	0.658	0.05	
2.789	19203	17049	0.888	0.04	
2.859	23656	22663	0.958	0.05	
2.927	37420	30276	0.809	0.08	
2.970	190223	166151	0.873	0.41	
3.065	277879	178542	0.643	0.60	
3.093	223992	227828	1.017	0.48	
3.137	23072	16307	0.707	0.05	
3.239	10861	16517	1.521	0.02	
3.260	96550	92377	0.957	0.20	
3.322	18351	16373	0.892	0.03	
3.395	22060	13002	0.589	0.04	5 Aroclor 1016
3.809	12258	10853	0.885	0.02	
3.910	122250	70851	0.580	0.26	5 Aroclor 1016
4.014	32244	18406	0.571	0.07	5 Aroclor 1016
4.080	43971	26135	0.594	0.09	5 Aroclor 1016
4.135	45763	27633	0.604	0.09	
4.191	35972	27211	0.756	0.07	
4.249	22324	17592	0.788	0.04	
4.298	165677	128162	0.774	0.36	
4.345	159090	144177	0.906	0.34	6 Aroclor 1248
4.376	137452	87784	0.639	0.29	
4.435	42034	25550	0.608	0.09	
4.503	56062	54367	0.970	0.12	
4.537	46695	46113	0.988	0.10	
4.600	795971	804856	1.011	1.73	
4.631	159950	148567	0.929	0.34	6 Aroclor 1248
4.672	22269	16912	0.759	0.04	
4.703	22254	19985	0.898	0.04	
4.811	19310	17869	0.925	0.04	
4.824	24913	21483	0.862	0.05	
4.852	46896	36161	0.771	0.10	
4.898	215463	193207	0.897	0.46	6 Aroclor 1248
4.932	230500	211586	0.918	0.50	
4.964	508071	346608	0.682	1.10	6 Aroclor 1248
5.042	91265	61444	0.673	0.19	
5.087	21622	17578	0.813	0.04	
5.124	226154	208676	0.923	0.49	6 Aroclor 1248
5.141	42881	46698	1.089	0.09	
5.185	166734	132748	0.796	0.36	
5.248	353480	304810	0.862	0.76	7 Aroclor 1254
5.300	376731	281109	0.746	0.81	
5.345	8129	12845	1.580	0.01	
5.369	36212	28739	0.794	0.07	
5.400	145312	128098	0.882	0.31	
5.449	118874	97890	0.823	0.25	
5.493	202894	180328	0.889	0.44	7 Aroclor 1254
5.537	1283491	1242732	0.968	2.79	
5.596	425455	358695	0.843	0.92	7 Aroclor 1254
5.652	34908	26704	0.765	0.07	
5.691	93404	65818	0.705	0.20	
5.758	220821	162995	0.738	0.48	
5.798	80021	61786	0.772	0.17	
5.827	159961	107126	0.670	0.34	
5.876	849481	704108	0.829	1.84	
5.910	209592	161292	0.770	0.45	
5.976	42319	41448	0.979	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.989	94316	56934	0.604	0.20	
6.056	15788	19832	1.256	0.03	
6.078	157250	144091	0.916	0.34	
6.111	362524	325610	0.898	0.78	7 Aroclor 1254
6.141	790264	681107	0.862	1.71	
6.254	171303	111664	0.652	0.37	
6.295	41572	43493	1.046	0.09	
6.328	683862	590220	0.863	1.48	
6.387	910722	773816	0.850	1.98	8 Aroclor 1260
6.419	110446	104050	0.942	0.24	
6.461	26695	25235	0.945	0.05	
6.519	76286	51971	0.681	0.16	
6.567	10702	10861	1.015	0.02	
6.597	294082	279538	0.951	0.63	
6.624	192527	173471	0.901	0.41	
6.646	201801	117282	0.581	0.43	
6.697	19715	19990	1.014	0.04	
6.730	916744	714595	0.779	1.99	
6.806	200977	155441	0.773	0.43	
6.841	461958	323181	0.700	1.00	
6.888	219663	153164	0.697	0.47	
6.924	96945	73712	0.760	0.21	
6.955	48304	37038	0.767	0.10	
6.983	58526	32482	0.555	0.12	
7.029	451393	379098	0.840	0.98	
7.090	468587	392785	0.838	1.01	8 Aroclor 1260
7.120	52083	54195	1.041	0.11	
7.187	166839	57620	0.345	0.36	
7.266	180582	157831	0.874	0.39	
7.337	202423	170178	0.841	0.44	8 Aroclor 1260
7.370	152472	97853	0.642	0.33	
7.423	90221	47593	0.528	0.19	
7.476	120803	110951	0.918	0.26	
7.529	193286	140542	0.727	0.42	8 Aroclor 1260
7.566	245532	87746	0.357	0.53	
7.635	270627	203289	0.751	0.58	
7.738	120384	62307	0.518	0.26	
7.781	88988	68924	0.775	0.19	
7.815	77198	55528	0.719	0.16	
7.848	77851	49904	0.641	0.16	
7.901	106363	72136	0.678	0.23	
7.959	69263	50023	0.722	0.15	
7.985	145583	100979	0.694	0.31	8 Aroclor 1260
8.040	84257	48632	0.577	0.18	
8.140	11531	11408	0.989	0.02	
8.219	26394	22967	0.870	0.05	
8.361	122309	114865	0.939	0.26	
8.448	31995	31110	0.972	0.06	
8.461	45392	39562	0.872	0.09	
8.489	16618	19095	1.149	0.03	
8.533	24137	23635	0.979	0.05	
8.569	22006	19388	0.881	0.04	
8.657	11943477	10644917	0.891	25.97	$ 12 Decachlorobiphenyl
8.811	45846	29334	0.640	0.09	
8.930	35246	24903	0.707	0.07	
9.000	121002	62458	0.516	0.26	
9.254	187972	182284	0.970	0.40	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.298	49928	36021	0.721	0.10	
9.523	114645	73152	0.638	0.24	
9.567	84894	73596	0.867	0.18	
	45979624	41268308		100.000	

Total unknown % area = 35

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718087.D
Lab Smp Id: 40158017012 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 08-MAY-2018 16:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017012,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 87
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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.037	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		
2.550	2.549	0.001	13006372	0.10799	54			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.345	4.343	0.002	159089	0.06669	33	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	159949	0.03766	19	0.00- 20.00	100.54	BA
4.898	4.898	0.000	215462	0.10577	53	0.00- 20.00	135.43	BA
4.964	4.963	0.001	508070	0.09276	46	0.00- 20.00	319.36	BA
5.123	5.123	0.000	226153	0.05978	30	0.00- 20.00	142.16	BA
			Average of Peak Concentrations =		36			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	353479	0.06268	31	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	202894	0.04350	22	0.00- 20.00	57.40	BA
5.595	5.596	-0.001	425455	0.04969	25	0.00- 20.00	120.36	BA
6.110	6.113	-0.003	362524	0.06824	34	0.00- 20.00	102.56	BA
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		28			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	910721	0.09098	45	0.00- 20.00	100.00(M)	BA
7.090	7.090	0.000	468587	0.03981	20	0.00- 20.00	51.45	BA
7.336	7.338	-0.002	202423	0.03579	18	0.00- 20.00	22.23	BA
7.529	7.529	0.000	193285	0.05654	28	0.00- 20.00	21.22	BA
7.985	7.987	-0.002	145582	0.04597	23	0.00- 20.00	15.99	BA
			Average of Peak Concentrations =		27			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	11943477	0.08967	45			

QC Flag Legend

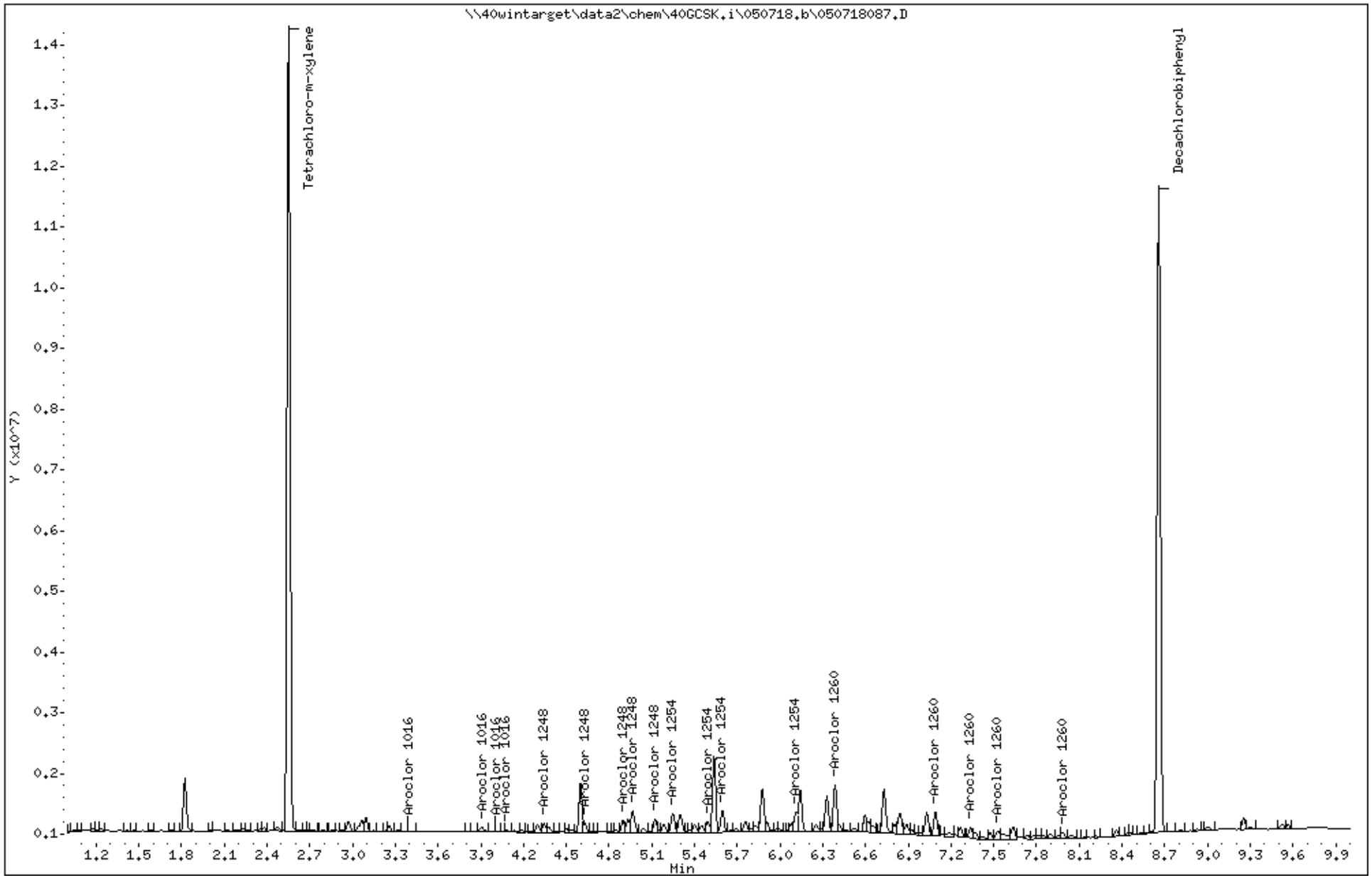
M - Compound response manually integrated.

Review Codes Legend

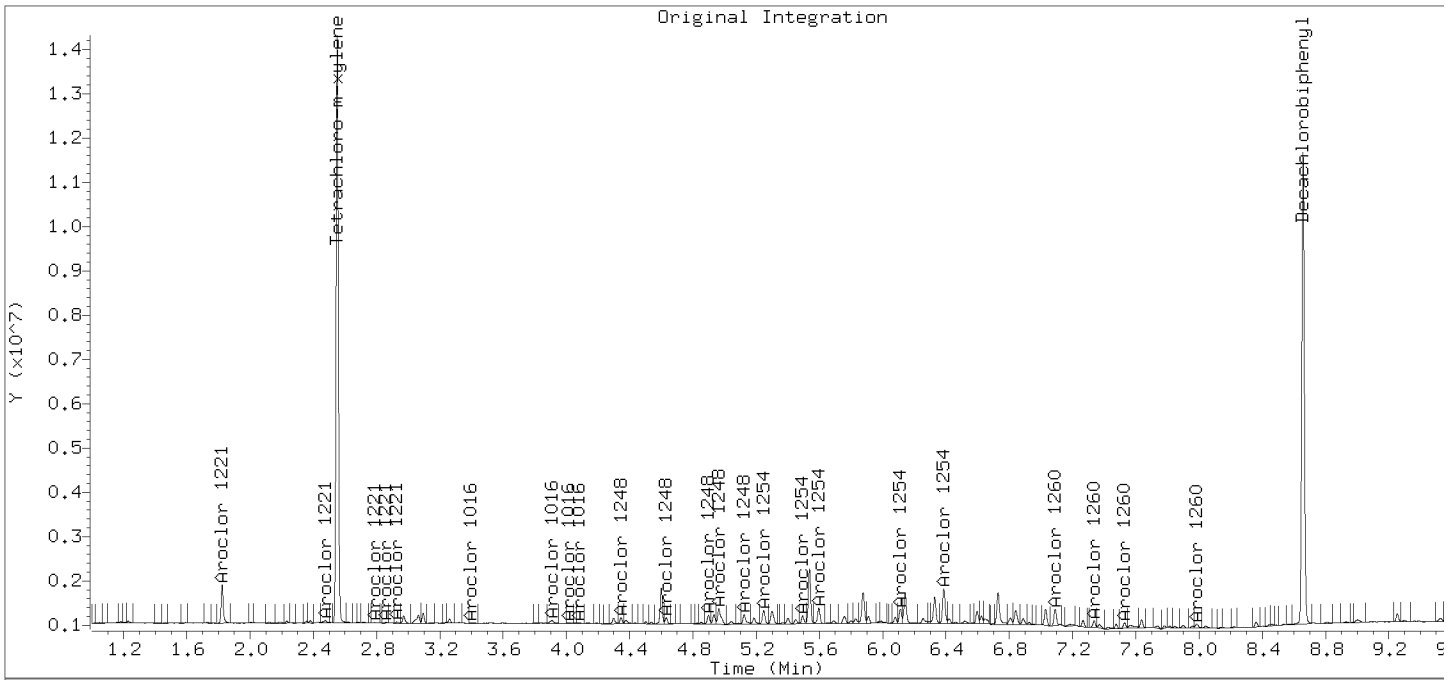
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

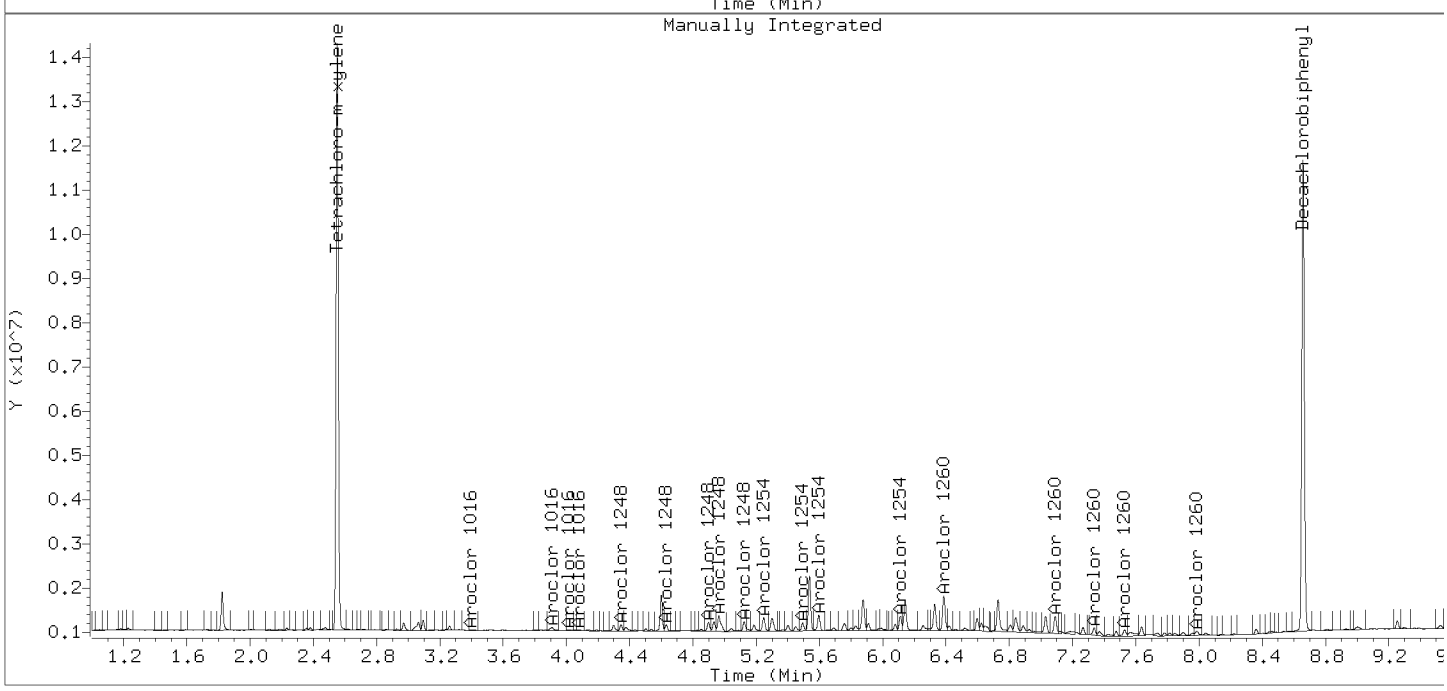
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718087.D
Date : 08-MAY-2018 16:58
Client ID: FD1-170829-01-MMSH-
Sample Info: 40158017012,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718087.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 16:58 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017012





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	808906	0	
Aroclor 1221	808906	0	
Aroclor 1221	808906	0	
Aroclor 1221	808906	0	
Aroclor 1221	808906	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	141197	159089	BA
Aroclor 1248	141197	159089	BA
Aroclor 1248	141197	159089	BA
Aroclor 1248	141197	159089	BA
Aroclor 1248	141197	159089	BA
Aroclor 1254	370693	353479	BA
Aroclor 1254	370693	353479	BA
Aroclor 1254	370693	353479	BA
Aroclor 1254	370693	353479	BA
Aroclor 1254	370693	353479	BA
Aroclor 1260	911314	910721	BA
Aroclor 1260	911314	910721	BA
Aroclor 1260	911314	910721	BA
Aroclor 1260	911314	910721	BA
Aroclor 1260	911314	910721	BA
Tetrachloro-m-xylene	13006372	13006372	
Decachlorobiphenyl	11943477	11943477	

==========

SAMPLE NO.

FD1-170829-01-MMSH-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/04/2018 07:32
Lab Sample ID: 40158017013
Date Analyzed: 05/08/2018 17:46
Lab File ID: 050718.B\050718090.D
Initial wt/vol: 9.9933 g Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSK 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)	36.1	J
11097-69-1	PCB-1254 (Aroclor 1254)	28.8	J
11096-82-5	PCB-1260 (Aroclor 1260)	27.4	J
1336-36-3	PCB, Total	92.3	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718090.D
Lab Smp Id: 40158017013 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 08-MAY-2018 17:46
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017013,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 90
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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.993	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.037	13309	15375	1.155	0.02		
1.051	20910	19552	0.935	0.04		
1.159	13684	17440	1.274	0.02		
1.180	35375	41225	1.165	0.07		
1.205	29348	30527	1.040	0.06		
1.228	45540	45044	0.989	0.09		
1.364	17791	12598	0.708	0.03		
1.460	14723	15944	1.083	0.03		
1.532	16627	16275	0.979	0.03		
1.580	10337	11883	1.150	0.02		
1.592	28091	23648	0.842	0.05		
1.658	26262	18218	0.694	0.05		
1.732	24106	22948	0.952	0.05		
1.822	187599	180516	0.962	0.40		
2.005	13639	14970	1.098	0.02		
2.120	44636	34195	0.766	0.09		
2.192	65629	44446	0.677	0.13		
2.231	77359	71189	0.920	0.16		
2.269	30019	23820	0.793	0.06		
2.315	19130	18356	0.960	0.04		
2.356	66795	65038	0.974	0.14		
2.379	90969	90653	0.997	0.19		
2.420	30374	24093	0.793	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.459	36694	44447	1.211	0.07	
2.474	90834	80019	0.881	0.19	
2.511	30093	28663	0.952	0.06	
2.550	12959527	13453561	1.038	28.36	$ 2 Tetrachloro-m-xyle
2.617	54567	38566	0.707	0.11	
2.673	18876	18139	0.961	0.04	
2.685	27148	24465	0.901	0.05	
2.710	34448	23774	0.690	0.07	
2.788	25357	20874	0.823	0.05	
2.859	23394	24904	1.065	0.04	
2.887	14813	14348	0.969	0.03	
2.932	45575	33336	0.731	0.09	4 Aroclor 1232
2.970	241651	210170	0.870	0.51	
3.049	121066	103844	0.858	0.25	
3.064	203524	200249	0.984	0.43	
3.094	247679	243650	0.984	0.52	
3.140	28059	19201	0.684	0.05	
3.238	39706	31345	0.789	0.08	
3.319	22227	18580	0.836	0.04	
3.524	15046	10922	0.726	0.03	
3.595	10815	10465	0.968	0.02	4 Aroclor 1232
3.810	12617	12358	0.979	0.02	
3.908	112361	70270	0.625	0.23	4 Aroclor 1232
4.014	24086	16630	0.690	0.05	4 Aroclor 1232
4.079	25384	19162	0.755	0.05	4 Aroclor 1232
4.133	48169	38884	0.807	0.10	
4.189	44396	31508	0.710	0.09	
4.260	24530	15700	0.640	0.05	
4.298	172994	137199	0.793	0.36	
4.345	162175	151093	0.932	0.34	6 Aroclor 1248
4.377	133246	90389	0.678	0.28	
4.432	39034	24456	0.627	0.08	
4.503	54403	54974	1.010	0.11	
4.538	48057	47339	0.985	0.10	
4.580	15132	21233	1.403	0.03	
4.599	145584	141307	0.971	0.31	
4.630	149396	139330	0.933	0.31	6 Aroclor 1248
4.704	24374	21060	0.864	0.05	
4.820	36872	22223	0.603	0.07	
4.852	43571	35471	0.814	0.09	
4.897	205597	189632	0.922	0.43	6 Aroclor 1248
4.932	228634	206314	0.902	0.48	
4.964	534198	338242	0.633	1.13	6 Aroclor 1248
5.042	102089	67421	0.660	0.21	
5.085	19299	17333	0.898	0.04	
5.124	224694	203916	0.908	0.47	6 Aroclor 1248
5.143	36144	45048	1.246	0.07	
5.186	172891	142680	0.825	0.36	
5.247	364411	315497	0.866	0.77	7 Aroclor 1254
5.300	415832	301735	0.726	0.88	
5.370	49005	30916	0.631	0.10	
5.401	175634	154060	0.877	0.37	
5.449	123901	102122	0.824	0.26	
5.494	203756	188321	0.924	0.43	7 Aroclor 1254
5.537	1388986	1346939	0.970	2.96	
5.596	463208	398166	0.860	0.98	7 Aroclor 1254
5.650	36613	26848	0.733	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.692	101712	69463	0.683	0.21	
5.757	291925	211776	0.725	0.62	
5.797	90728	67655	0.746	0.19	
5.828	160673	106077	0.660	0.34	
5.876	863342	733088	0.849	1.84	
5.909	227522	185852	0.817	0.48	
5.973	38892	42551	1.094	0.08	
5.991	103828	63768	0.614	0.22	
6.054	14595	20694	1.418	0.03	
6.078	166373	144070	0.866	0.35	
6.112	360825	321635	0.891	0.76	7 Aroclor 1254
6.141	814145	715874	0.879	1.73	
6.254	194893	123439	0.633	0.41	
6.294	47427	53270	1.123	0.10	
6.327	989884	860437	0.869	2.11	
6.386	1002239	853689	0.852	2.13	8 Aroclor 1260
6.419	126600	115835	0.915	0.26	
6.461	34418	29932	0.870	0.07	
6.518	74375	54721	0.736	0.15	
6.596	306749	284706	0.928	0.65	
6.625	213073	188151	0.883	0.45	
6.653	214824	152375	0.709	0.45	
6.696	21105	31818	1.508	0.04	
6.729	1466160	1158494	0.790	3.12	
6.805	235533	178627	0.758	0.50	
6.841	565026	414536	0.734	1.20	
6.887	228711	157389	0.688	0.48	
6.926	179575	84482	0.470	0.38	
6.982	73727	41184	0.559	0.15	
7.030	470744	388543	0.825	1.00	
7.091	470591	397519	0.845	1.00	8 Aroclor 1260
7.121	53495	53095	0.993	0.11	
7.187	161657	57573	0.356	0.34	
7.268	248874	225143	0.905	0.53	
7.337	212935	171360	0.805	0.45	8 Aroclor 1260
7.370	152834	99820	0.653	0.32	
7.427	81518	44366	0.544	0.17	
7.477	104268	99422	0.954	0.22	
7.530	182662	132518	0.725	0.38	8 Aroclor 1260
7.568	209437	84803	0.405	0.44	
7.637	433814	324406	0.748	0.92	
7.697	58661	32797	0.559	0.12	
7.738	135594	86444	0.638	0.28	
7.782	81252	66008	0.812	0.17	
7.815	72795	51385	0.706	0.15	
7.850	58877	40852	0.694	0.12	
7.900	104894	72665	0.693	0.22	
7.965	65968	47750	0.724	0.14	
7.986	135067	93708	0.694	0.28	8 Aroclor 1260
8.043	80519	42978	0.534	0.17	
8.140	28424	17138	0.603	0.06	
8.224	24124	20097	0.833	0.05	
8.361	114870	108579	0.945	0.24	
8.463	32318	23599	0.730	0.06	
8.537	36309	29010	0.799	0.07	
8.569	40895	27003	0.660	0.08	
8.657	12053159	10519576	0.873	25.70	$ 12 Decachlorobiphenyl

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.725	34843	27896	0.801	0.07	
8.812	36503	25328	0.694	0.07	
8.928	38634	27419	0.710	0.08	
9.000	75102	31091	0.414	0.16	
9.084	16840	15533	0.922	0.03	
9.254	164645	158732	0.964	0.35	
9.298	40401	29792	0.737	0.08	
9.526	15380	14138	0.919	0.03	
9.567	80466	67006	0.833	0.17	
	46892868	41897931		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718090.D
Lab Smp Id: 40158017013 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 08-MAY-2018 17:46
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017013,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 90
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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.993	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.550	2.549	0.001	12959526	0.10760	54			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Qualifier signal(s) failed ratio test.								

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			
Compound Not Detected.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	162175	0.06799	34	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	149396	0.03517	18	0.00- 20.00	92.12	BA
4.896	4.898	-0.002	205596	0.10093	50	0.00- 20.00	126.77	BA
4.964	4.963	0.001	534198	0.09753	49	0.00- 20.00	329.40	BA
5.123	5.123	0.000	224694	0.05939	30	0.00- 20.00	138.55	BA
Average of Peak Concentrations =					36			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	364410	0.06462	32	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	203755	0.04369	22	0.00- 20.00	55.91	BA
5.596	5.596	0.000	463208	0.05410	27	0.00- 20.00	127.11	BA
6.111	6.113	-0.002	360824	0.06792	34	0.00- 20.00	99.02	BA
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					29			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	1002239	0.10012	50	0.00- 20.00	100.00(M)	BA
7.090	7.090	0.000	470590	0.03998	20	0.00- 20.00	46.95	BA
7.337	7.338	-0.001	212934	0.03765	19	0.00- 20.00	21.25	BA
7.530	7.529	0.001	182662	0.05343	27	0.00- 20.00	18.23	BA
7.986	7.987	-0.001	135066	0.04265	21	0.00- 20.00	13.48	BA
Average of Peak Concentrations =					27			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	12053159	0.09050	45			

QC Flag Legend

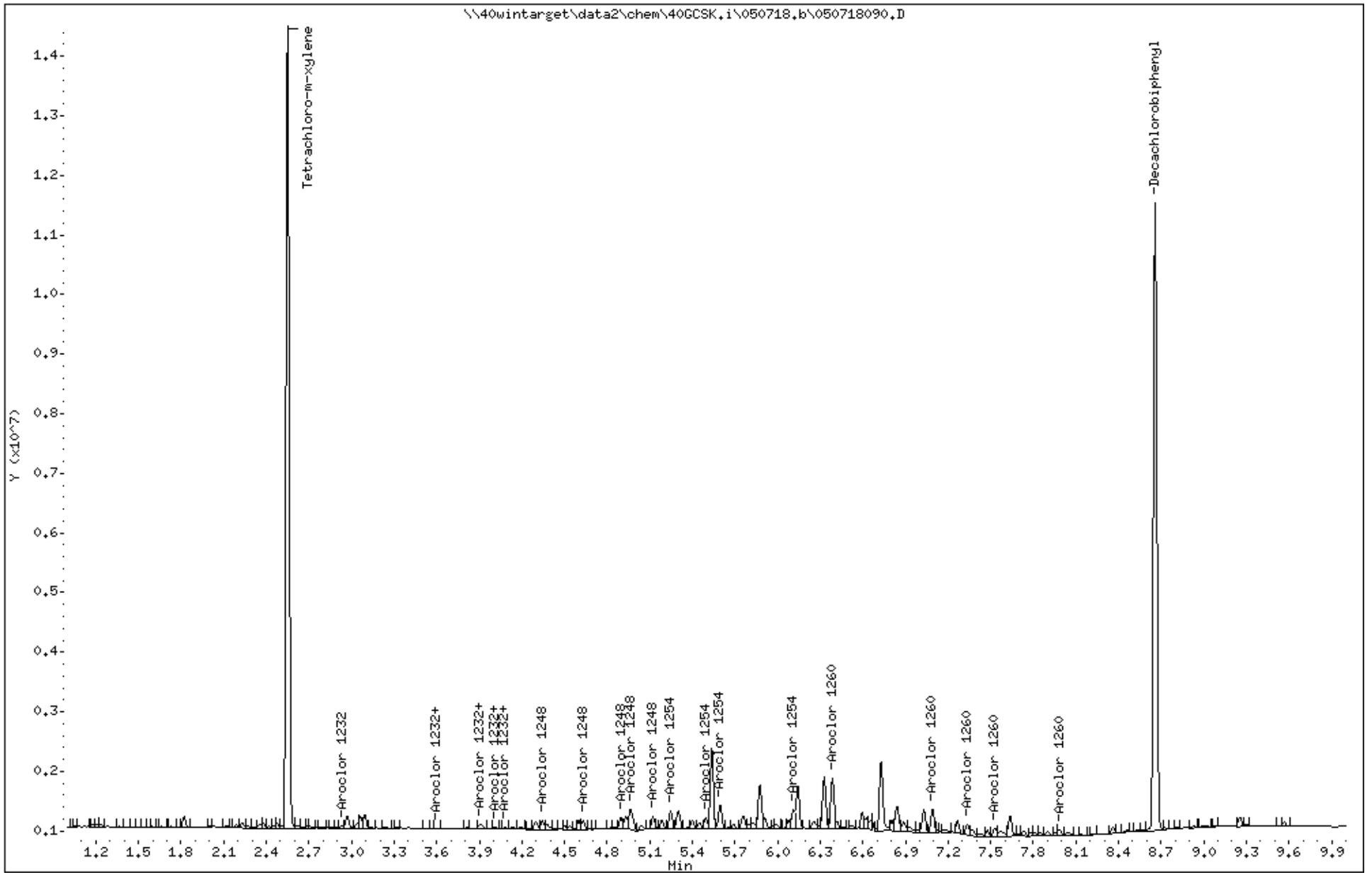
M - Compound response manually integrated.

Review Codes Legend

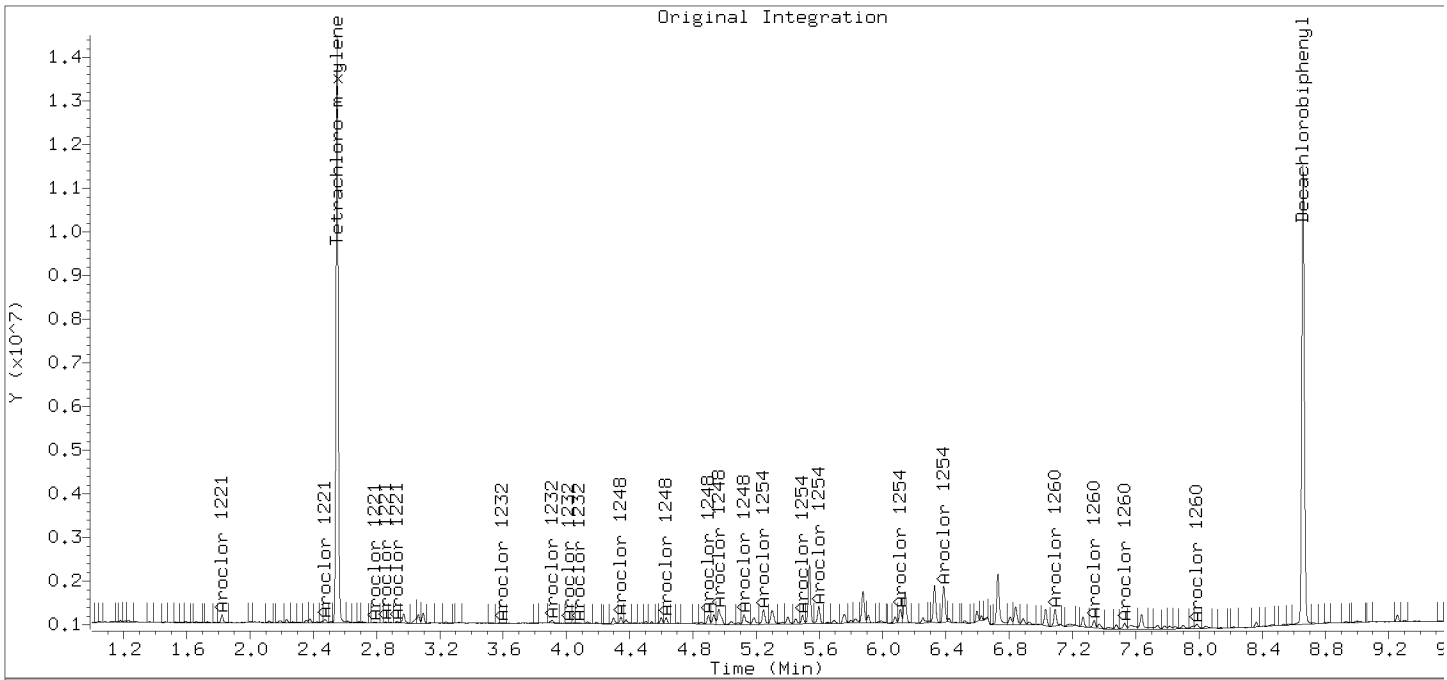
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

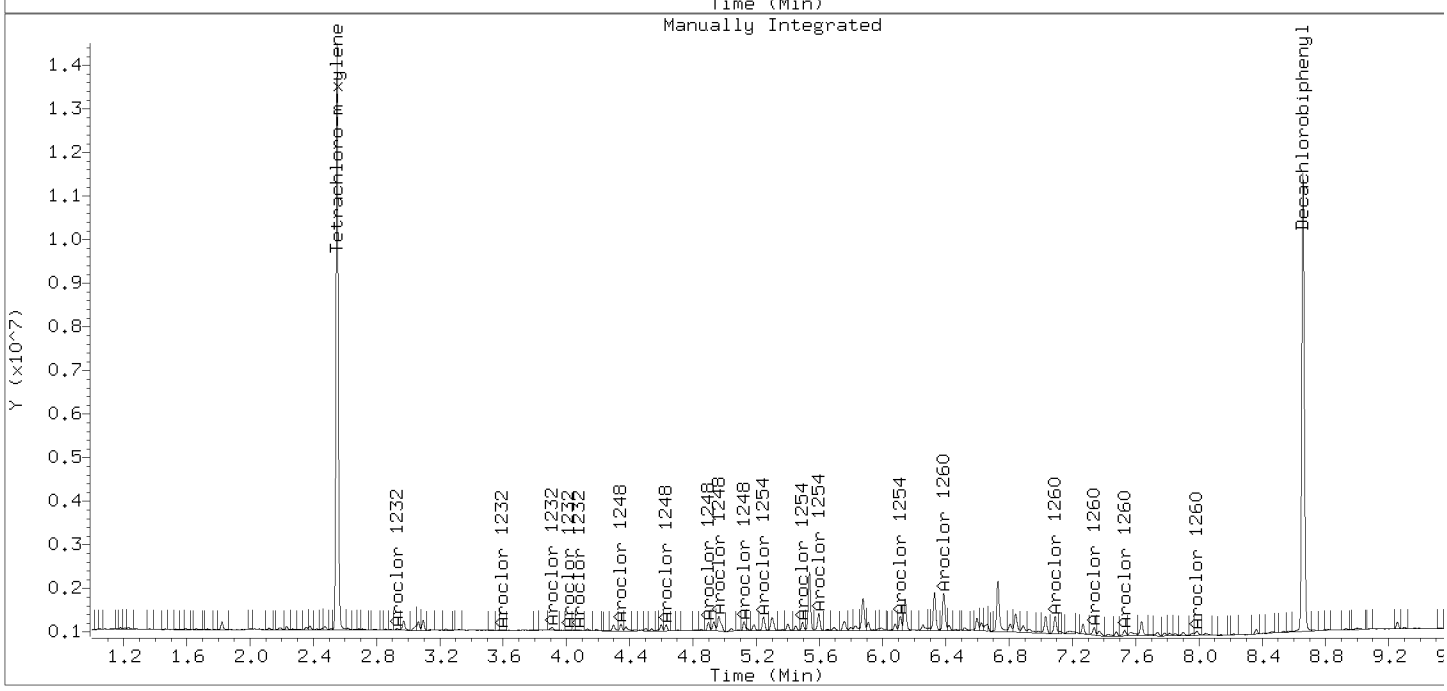
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718090.D
Date : 08-MAY-2018 17:46
Client ID: FD1-170829-01-MMSH-
Sample Info: 40158017013,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718090.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 17:46 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017013





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	187599	0	
Aroclor 1221	187599	0	
Aroclor 1221	187599	0	
Aroclor 1221	187599	0	
Aroclor 1221	187599	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	149417	162175	BA
Aroclor 1248	149417	162175	BA
Aroclor 1248	149417	162175	BA
Aroclor 1248	149417	162175	BA
Aroclor 1248	149417	162175	BA
Aroclor 1254	428578	364410	BA
Aroclor 1254	428578	364410	BA
Aroclor 1254	428578	364410	BA
Aroclor 1254	428578	364410	BA
Aroclor 1254	428578	364410	BA
Aroclor 1260	918456	1002239	BA
Aroclor 1260	918456	1002239	BA
Aroclor 1260	918456	1002239	BA
Aroclor 1260	918456	1002239	BA
Aroclor 1260	918456	1002239	BA
Tetrachloro-m-xylene	12959526	12959526	
Decachlorobiphenyl	12053159	12053159	

==========

SAMPLE NO.

FD1-170829-01-MMSH-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/04/2018 07:32
Lab Sample ID: 40158017014
Date Analyzed: 05/08/2018 18:02
Lab File ID: 050718.B\050718091.D
Initial wt/vol: 10.0237 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	27.6	J
11097-69-1	PCB-1254 (Aroclor 1254)	24.3	J
11096-82-5	PCB-1260 (Aroclor 1260)	27.7	J
1336-36-3	PCB, Total	79.6	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718091.D
Lab Smp Id: 40158017014 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 08-MAY-2018 18:02
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017014,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 91
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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.024	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.050	48688	26915	0.553	0.11		
1.078	37273	22543	0.605	0.08		
1.118	24874	19516	0.785	0.05		
1.158	25135	21865	0.870	0.05		
1.180	43252	46283	1.070	0.09		
1.207	24965	24491	0.981	0.05		
1.228	50655	44384	0.876	0.11		
1.359	10248	9036	0.882	0.02		
1.462	19261	19474	1.011	0.04		
1.529	17039	16520	0.970	0.03		
1.592	25813	22021	0.853	0.05		
1.660	13821	14790	1.070	0.03		
1.730	19455	21894	1.125	0.04		
1.821	110158	95950	0.871	0.25		
2.005	12580	16031	1.274	0.02		
2.118	45902	34826	0.759	0.10		
2.192	62457	44072	0.706	0.14		
2.231	75484	73612	0.975	0.17		
2.271	24752	22842	0.923	0.05		
2.316	18524	16842	0.909	0.04		
2.353	74344	73125	0.984	0.16		
2.378	98135	97800	0.997	0.22		
2.421	33119	25810	0.779	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.461	42610	43838	1.029	0.09	
2.474	86442	74282	0.859	0.19	
2.510	33855	32683	0.965	0.07	
2.550	12394673	12938006	1.044	29.01	$ 2 Tetrachloro-m-xyle
2.615	87585	45237	0.516	0.19	
2.674	32663	27669	0.847	0.07	
2.683	35097	32104	0.915	0.07	
2.712	62024	32395	0.522	0.14	
2.758	16124	14111	0.875	0.03	
2.790	60213	29655	0.493	0.13	
2.831	13867	16199	1.168	0.03	
2.860	45687	34053	0.745	0.10	
2.887	37435	25272	0.675	0.08	
2.931	69685	45154	0.648	0.15	
2.970	288723	237394	0.822	0.65	
3.047	108398	97769	0.902	0.24	
3.063	201148	183402	0.912	0.45	
3.094	235329	231783	0.985	0.53	
3.138	32807	24630	0.751	0.07	
3.171	29634	16907	0.571	0.06	
3.240	34023	29821	0.876	0.07	
3.319	15580	17870	1.147	0.03	
3.392	10047	10477	1.043	0.02	5 Aroclor 1016
3.910	99594	61352	0.616	0.22	5 Aroclor 1016
4.014	25055	18442	0.736	0.05	5 Aroclor 1016
4.079	20507	18806	0.917	0.04	5 Aroclor 1016
4.132	37756	28715	0.761	0.08	
4.192	37128	32535	0.876	0.08	
4.298	124929	95204	0.762	0.28	
4.345	115920	106734	0.921	0.26	6 Aroclor 1248
4.377	120529	72388	0.601	0.27	
4.476	30771	21109	0.686	0.07	
4.501	27719	30586	1.103	0.06	
4.536	31892	30714	0.963	0.07	
4.579	22270	24525	1.101	0.05	
4.601	68352	59680	0.873	0.15	
4.631	119773	103942	0.868	0.27	6 Aroclor 1248
4.702	26217	20529	0.783	0.05	
4.825	30581	23710	0.775	0.06	
4.852	48692	32064	0.659	0.11	
4.897	172940	147706	0.854	0.39	6 Aroclor 1248
4.932	190558	165208	0.867	0.43	
4.964	400898	246045	0.614	0.91	6 Aroclor 1248
5.042	86825	56338	0.649	0.19	
5.091	28717	20723	0.722	0.06	
5.125	159787	145431	0.910	0.36	6 Aroclor 1248
5.144	47154	46337	0.983	0.10	
5.187	159109	121334	0.763	0.36	
5.247	321679	271812	0.845	0.73	7 Aroclor 1254
5.301	368186	260497	0.708	0.83	
5.370	38977	28620	0.734	0.08	
5.402	159189	136738	0.859	0.36	
5.449	110350	85360	0.774	0.25	
5.494	172399	153479	0.890	0.39	7 Aroclor 1254
5.537	1325659	1317206	0.994	3.01	
5.597	365662	312619	0.855	0.83	7 Aroclor 1254
5.653	39401	28930	0.734	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.693	87507	56465	0.645	0.19	
5.758	220654	160910	0.729	0.50	
5.800	75285	59946	0.796	0.17	
5.828	183533	114537	0.624	0.41	
5.877	768572	634016	0.825	1.75	
5.909	200938	182928	0.910	0.45	
5.974	40469	36624	0.905	0.09	
5.991	103661	63638	0.614	0.23	
6.058	17365	20332	1.171	0.03	
6.079	159733	143205	0.897	0.36	
6.112	309815	272303	0.879	0.70	7 Aroclor 1254
6.142	782284	675995	0.864	1.78	
6.255	191362	112070	0.586	0.43	
6.295	55483	56942	1.026	0.12	
6.328	920202	795701	0.865	2.09	
6.386	917310	782009	0.853	2.08	8 Aroclor 1260
6.420	123171	111232	0.903	0.28	
6.463	38923	28336	0.728	0.08	
6.518	78570	52922	0.674	0.17	
6.597	304425	280102	0.920	0.69	
6.624	182342	177226	0.972	0.41	
6.647	233568	133166	0.570	0.53	
6.700	15294	18222	1.191	0.03	
6.728	1061890	816034	0.768	2.41	
6.806	237303	179446	0.756	0.54	
6.841	473686	319128	0.674	1.07	
6.889	235775	160781	0.682	0.53	
6.926	176997	80890	0.457	0.40	
6.984	74641	41497	0.556	0.17	
7.030	464487	378559	0.815	1.05	
7.091	522561	434431	0.831	1.19	8 Aroclor 1260
7.120	91114	61606	0.676	0.20	
7.185	120114	57289	0.477	0.27	
7.266	242059	204047	0.843	0.55	
7.338	208539	178581	0.856	0.47	8 Aroclor 1260
7.369	158243	100912	0.638	0.36	
7.425	81154	45003	0.555	0.18	
7.477	112405	107183	0.954	0.25	
7.528	195927	144297	0.736	0.44	8 Aroclor 1260
7.570	193145	66581	0.345	0.43	
7.638	285755	226051	0.791	0.65	
7.695	54068	35001	0.647	0.12	
7.737	104852	59130	0.564	0.23	
7.780	74110	65998	0.891	0.16	
7.814	76316	52407	0.687	0.17	
7.848	64754	44719	0.691	0.14	
7.900	105504	68534	0.650	0.24	
7.961	77754	51434	0.661	0.17	
7.987	148864	108759	0.731	0.33	8 Aroclor 1260
8.040	75336	48969	0.650	0.17	
8.098	10038	9188	0.915	0.02	
8.136	25981	15886	0.611	0.05	
8.219	25228	20392	0.808	0.05	
8.362	116639	108071	0.927	0.26	
8.404	12395	10899	0.879	0.02	
8.463	79008	40658	0.515	0.17	
8.538	41309	32157	0.778	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.568	41028	29671	0.723	0.09	
8.658	11271932	9797442	0.869	25.67	$ 12 Decachlorobiphenyl
8.725	26673	20536	0.770	0.06	
8.807	21332	18208	0.854	0.04	
8.932	36016	27743	0.770	0.08	
9.000	66888	33170	0.496	0.15	
9.082	19874	17124	0.862	0.04	
9.139	10656	9964	0.935	0.02	
9.253	174300	162562	0.933	0.39	
9.301	38078	26782	0.703	0.08	
9.450	11848	8498	0.717	0.02	
9.529	47422	30594	0.645	0.10	
9.570	76045	58797	0.773	0.17	
	43905273	38961207		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718091.D
Lab Smp Id: 40158017014 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 08-MAY-2018 18:02
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017014,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 91
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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.024	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			

Operator disabled compound identification.

$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	12394673	0.10291	51			

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3 Aroclor 1242					CAS #: 53469-21-9			

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

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4 Aroclor 1232					CAS #: 1114-16-5			

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.345	4.343	0.002	115919	0.04860	24	0.00- 20.00	100.00(M)	CO
4.631	4.630	0.001	119773	0.02820	14	0.00- 20.00	103.32	CO
4.897	4.898	-0.001	172940	0.08490	42	0.00- 20.00	149.19	CO
4.964	4.963	0.001	400898	0.07319	36	0.00- 20.00	345.84	CO
5.124	5.123	0.001	159787	0.04224	21	0.00- 20.00	137.84	CO
Average of Peak Concentrations =					28			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	321679	0.05704	28	0.00- 20.00	100.00(M)	BA
5.494	5.492	0.002	172399	0.03697	18	0.00- 20.00	53.59	BA
5.597	5.596	0.001	365662	0.04271	21	0.00- 20.00	113.67	BA
6.112	6.113	-0.001	309814	0.05831	29	0.00- 20.00	96.31	BA
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					24			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	917309	0.09164	46	0.00- 20.00	100.00(M)	BA
7.090	7.090	0.000	522561	0.04440	22	0.00- 20.00	56.97	BA
7.337	7.338	-0.001	208539	0.03687	18	0.00- 20.00	22.73	BA
7.528	7.529	-0.001	195927	0.05731	28	0.00- 20.00	21.36	BA
7.987	7.987	0.000	148864	0.04700	23	0.00- 20.00	16.23	BA
Average of Peak Concentrations =					28			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	11271931	0.08463	42			

QC Flag Legend

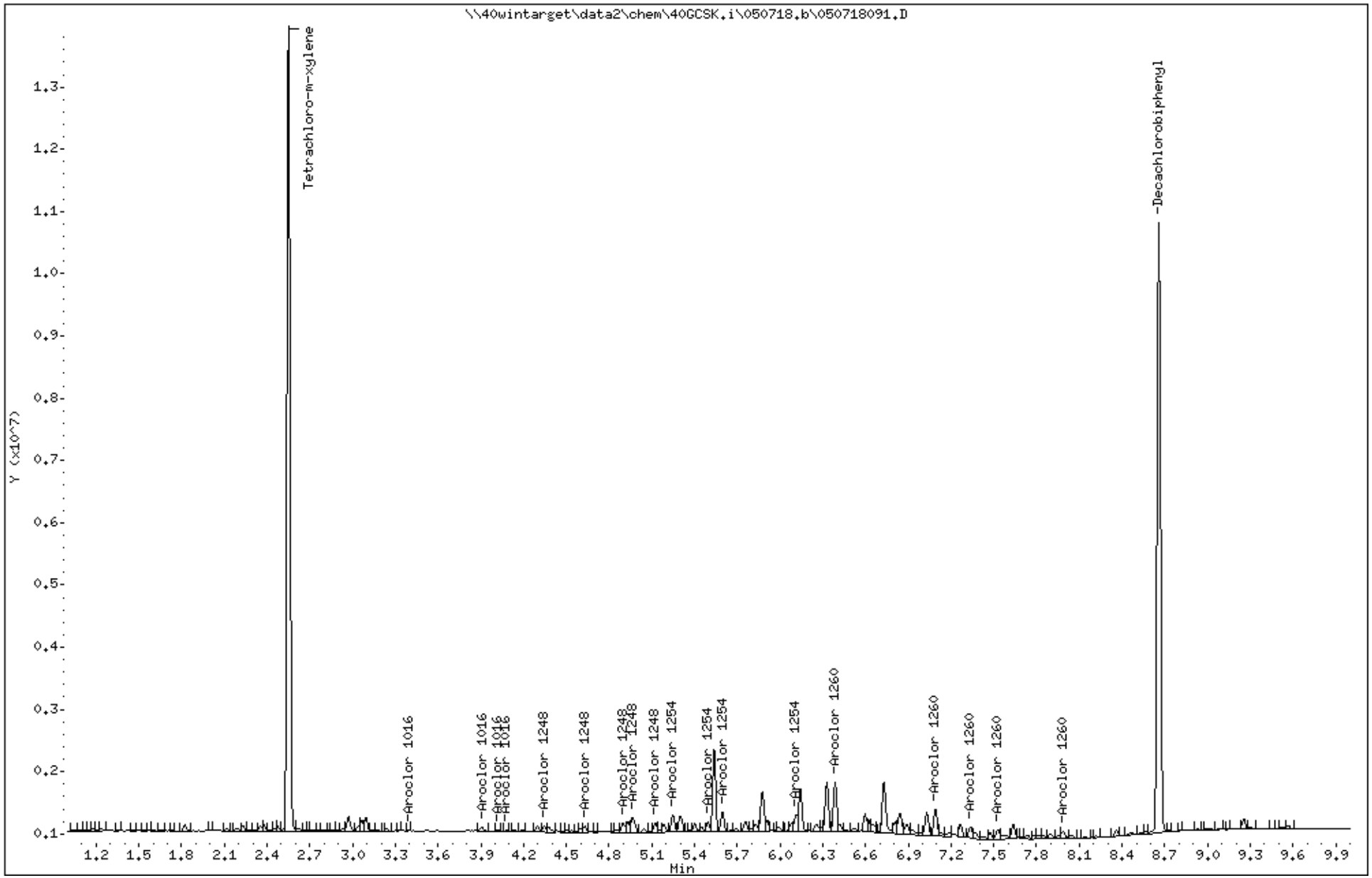
M - Compound response manually integrated.

Review Codes Legend

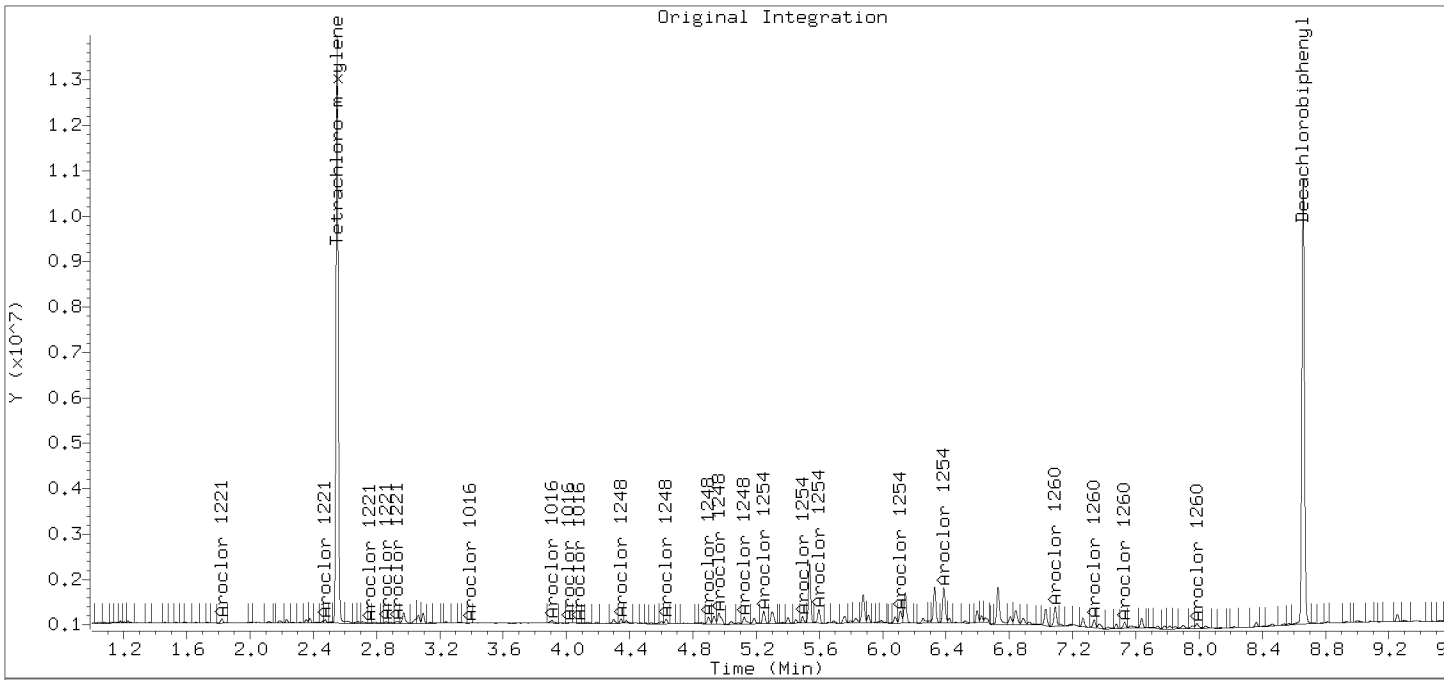
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

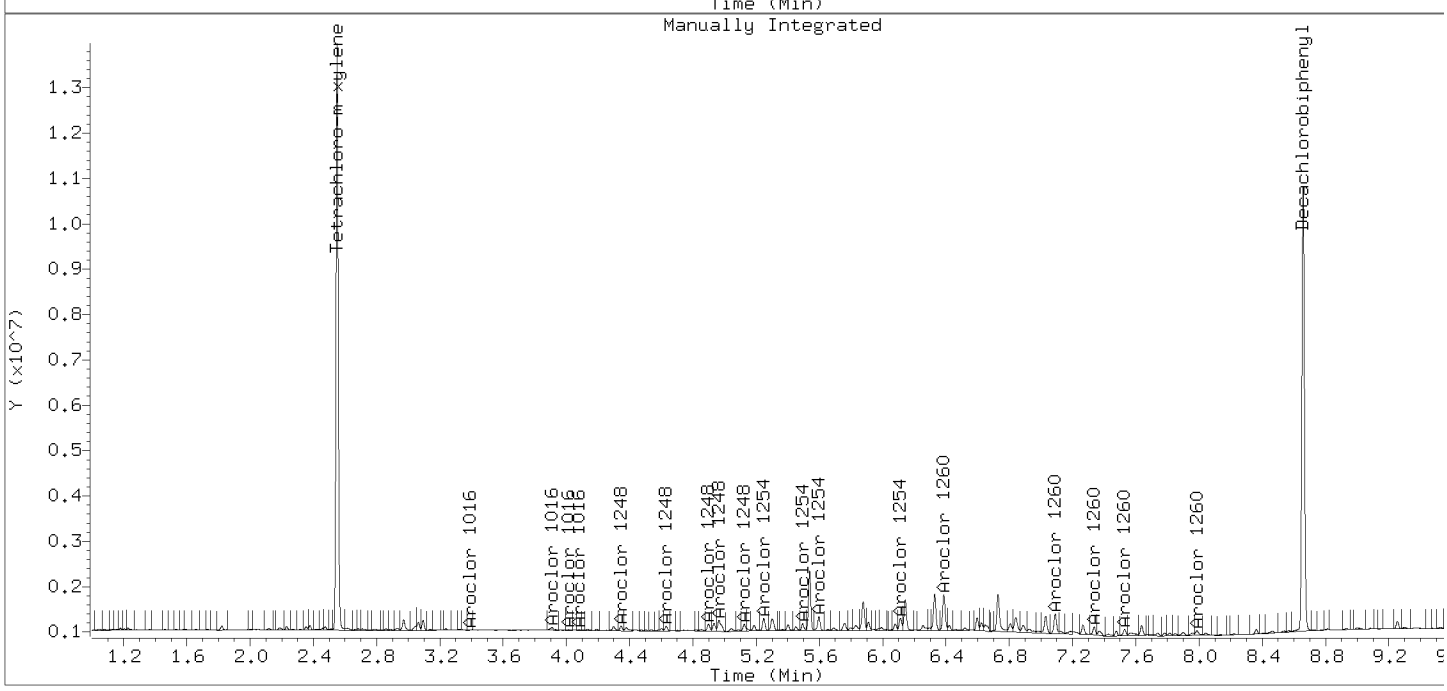
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718091.D
Date : 08-MAY-2018 18:02
Client ID: FD1-170829-01-MMSH-
Sample Info: 40158017014,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718091.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 18:02 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017014





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	110158	0	
Aroclor 1221	110158	0	
Aroclor 1221	110158	0	
Aroclor 1221	110158	0	
Aroclor 1221	110158	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	88069	115919	CO
Aroclor 1248	88069	115919	CO
Aroclor 1248	88069	115919	CO
Aroclor 1248	88069	115919	CO
Aroclor 1248	88069	115919	CO
Aroclor 1254	315310	321679	BA
Aroclor 1254	315310	321679	BA
Aroclor 1254	315310	321679	BA
Aroclor 1254	315310	321679	BA
Aroclor 1254	315310	321679	BA
Aroclor 1260	893013	917309	BA
Aroclor 1260	893013	917309	BA
Aroclor 1260	893013	917309	BA
Aroclor 1260	893013	917309	BA
Aroclor 1260	893013	917309	BA
Tetrachloro-m-xylene	12394673	12394673	
Decachlorobiphenyl	11271931	11271931	

==========

SAMPLE NO.

FD1-170829-01-MMSH-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/04/2018 07:32
Lab Sample ID: 40158017015
Date Analyzed: 05/10/2018 09:30
Lab File ID: 051018.B\051018009.D
Initial wt/vol: 10.0001 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	24.2	J
11097-69-1	PCB-1254 (Aroclor 1254)	21.3	J
11096-82-5	PCB-1260 (Aroclor 1260)	24.9	J
1336-36-3	PCB, Total	70.5	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018009.D
Lab Smp Id: 40158017015 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 10-MAY-2018 09:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017015,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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
1.049	52519	27355	0.521	0.10		
1.081	27364	18388	0.672	0.05		
1.119	26302	15405	0.586	0.05		
1.156	22749	16971	0.746	0.04		
1.180	40169	38326	0.954	0.07		
1.228	46184	31789	0.688	0.08		
1.414	11017	6934	0.629	0.02		
1.462	15888	14071	0.886	0.03		
1.532	12946	11990	0.926	0.02		
1.579	13603	9597	0.705	0.02		
1.658	12813	12965	1.012	0.02		
1.730	29128	24955	0.857	0.05		
1.821	4122593	4513534	1.095	7.91		
2.004	17234	18453	1.071	0.03		
2.029	37821	26903	0.711	0.07		
2.117	34429	25696	0.746	0.06		
2.192	45340	29916	0.660	0.08		
2.230	34475	40388	1.172	0.06		
2.258	17479	14171	0.811	0.03		
2.317	11108	12205	1.099	0.02		
2.355	41454	40077	0.967	0.07		
2.379	51918	53152	1.024	0.09		
2.428	151199	143256	0.947	0.29		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.457	22390	29998	1.340	0.04	
2.475	62756	61206	0.975	0.12	
2.513	13878	15665	1.129	0.02	
2.550	11721032	12077451	1.030	23.23	$ 2 Tetrachloro-m-xyle
2.614	31264	22077	0.706	0.06	
2.684	18171	12656	0.696	0.03	
2.859	19120	20575	1.076	0.03	
2.928	34618	28230	0.815	0.06	
2.970	116792	99613	0.853	0.22	
3.049	78087	73697	0.944	0.15	
3.064	157835	157306	0.997	0.30	
3.094	191620	192303	1.004	0.36	
3.155	17846	15945	0.894	0.03	
3.258	1942964	2061262	1.061	3.73	
3.320	24950	17803	0.714	0.04	
3.348	19594	15984	0.816	0.03	
3.395	12501	9763	0.781	0.02	5 Aroclor 1016
3.908	105963	51067	0.482	0.20	5 Aroclor 1016
4.014	27249	18503	0.679	0.05	5 Aroclor 1016
4.080	25919	19261	0.743	0.04	5 Aroclor 1016
4.136	38937	22777	0.585	0.07	
4.192	43818	22650	0.517	0.08	
4.256	36485	22383	0.613	0.07	
4.298	109095	82798	0.759	0.20	
4.346	98894	86947	0.879	0.18	6 Aroclor 1248
4.375	103782	57236	0.552	0.19	
4.501	91190	60073	0.659	0.17	
4.539	60921	41732	0.685	0.11	
4.599	6576706	6891265	1.048	12.63	
4.630	142124	113034	0.795	0.27	6 Aroclor 1248
4.703	37598	22579	0.601	0.07	
4.818	38501	24101	0.626	0.07	
4.855	42469	29904	0.704	0.08	
4.899	147639	124000	0.840	0.28	6 Aroclor 1248
4.932	151890	130715	0.861	0.29	
4.965	327205	194355	0.594	0.62	6 Aroclor 1248
5.044	86821	51469	0.593	0.16	
5.084	24777	17474	0.705	0.04	
5.123	130932	123629	0.944	0.25	6 Aroclor 1248
5.138	57744	46278	0.801	0.11	
5.186	133751	101719	0.761	0.25	
5.248	321415	247017	0.769	0.61	7 Aroclor 1254
5.303	327008	221614	0.678	0.62	
5.346	15141	17381	1.148	0.02	
5.364	42780	26118	0.611	0.08	
5.402	125464	112220	0.894	0.24	
5.449	97089	70168	0.723	0.18	
5.494	136330	123613	0.907	0.26	7 Aroclor 1254
5.538	1022546	986190	0.964	1.96	
5.597	310079	258132	0.832	0.59	7 Aroclor 1254
5.653	40556	27917	0.688	0.07	
5.691	70183	45639	0.650	0.13	
5.760	119230	94372	0.792	0.22	
5.798	67217	47532	0.707	0.12	
5.829	101784	68969	0.678	0.19	
5.877	590857	514524	0.871	1.13	
5.910	146735	133143	0.907	0.28	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.939	51176	42825	0.837	0.09	
5.971	33725	30447	0.903	0.06	
5.990	73412	45353	0.618	0.14	
6.055	14991	18948	1.264	0.02	
6.081	135932	122993	0.905	0.26	
6.112	256742	220570	0.859	0.49	7 Aroclor 1254
6.142	706405	611564	0.866	1.35	
6.255	129262	97431	0.754	0.24	
6.294	148233	104779	0.707	0.28	
6.329	1048160	928282	0.886	2.01	
6.386	781657	668042	0.855	1.50	8 Aroclor 1260
6.420	89801	85469	0.952	0.17	
6.461	30204	22305	0.738	0.05	
6.521	63270	42881	0.678	0.12	
6.562	2341	8095	3.458	0.00	
6.597	285285	253241	0.888	0.54	
6.624	155982	148959	0.955	0.29	
6.647	184982	115082	0.622	0.35	
6.704	22652	19716	0.870	0.04	
6.730	334325	226265	0.677	0.64	
6.805	194342	149166	0.768	0.37	
6.846	228355	160919	0.705	0.43	
6.889	185635	125509	0.676	0.35	
6.927	140066	63350	0.452	0.26	
6.988	58529	34091	0.582	0.11	
7.030	407613	334794	0.821	0.78	
7.091	477579	391346	0.819	0.91	8 Aroclor 1260
7.122	48214	51299	1.064	0.09	
7.176	106004	54308	0.512	0.20	
7.210	121105	49645	0.410	0.23	
7.268	318232	273546	0.860	0.61	
7.338	195084	164057	0.841	0.37	8 Aroclor 1260
7.369	138483	87808	0.634	0.26	
7.424	88148	43634	0.495	0.16	
7.477	107490	103081	0.959	0.20	
7.510	21349	29855	1.398	0.04	
7.529	164028	130279	0.794	0.31	8 Aroclor 1260
7.567	200521	68600	0.342	0.38	
7.637	123686	86797	0.702	0.23	
7.782	94509	71961	0.761	0.18	
7.815	77075	54937	0.713	0.14	
7.850	65278	45008	0.689	0.12	
7.902	112928	71205	0.631	0.21	
7.959	63990	46463	0.726	0.12	
7.987	152691	101095	0.662	0.29	8 Aroclor 1260
8.043	105833	47480	0.449	0.20	
8.100	12211	11058	0.906	0.02	
8.135	20391	15489	0.760	0.03	
8.222	42060	25627	0.609	0.08	
8.362	113982	105885	0.929	0.21	
8.465	38442	21653	0.563	0.07	
8.539	23067	20309	0.880	0.04	
8.568	17435	16453	0.944	0.03	
8.603	10651	9973	0.936	0.02	
8.658	11217880	10055122	0.896	21.54	$ 12 Decachlorobiphenyl
8.812	53536	28882	0.539	0.10	
8.863	25038	14690	0.587	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.931	33954	23463	0.691	0.06	
9.019	73022	33291	0.456	0.14	
9.102	12038	10554	0.877	0.02	
9.144	10082	8280	0.821	0.01	
9.256	112145	108873	0.971	0.21	
9.295	45789	28331	0.619	0.08	
9.394	23399	20558	0.879	0.04	
9.525	20350	14624	0.719	0.03	
9.569	70594	56278	0.797	0.13	
	52057344	48691402		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018009.D
Lab Smp Id: 40158017015 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 10-MAY-2018 09:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017015,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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		
2.549	2.549	0.000	11721031	0.09732	49			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.345	4.343	0.002	98893	0.04146	21	0.00- 20.00	100.00(M)	CO
4.630	4.630	0.000	142123	0.03346	17	0.00- 20.00	143.71	CO
4.898	4.898	0.000	147639	0.07248	36	0.00- 20.00	149.29	CO
4.964	4.963	0.001	327204	0.05974	30	0.00- 20.00	330.87	CO
5.122	5.123	-0.001	130932	0.03461	17	0.00- 20.00	132.40	CO
Average of Peak Concentrations =					24			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	321414	0.05699	28	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	136329	0.02923	15	0.00- 20.00	42.42	BA
5.596	5.596	0.000	310078	0.03622	18	0.00- 20.00	96.47	BA
6.111	6.113	-0.002	256741	0.04832	24	0.00- 20.00	79.88	BA
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					21			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	781657	0.07809	39	0.00- 20.00	100.00(M)	CO
7.090	7.090	0.000	477578	0.04058	20	0.00- 20.00	61.10	CO
7.337	7.338	-0.001	195083	0.03449	17	0.00- 20.00	24.96	CO
7.529	7.529	0.000	164028	0.04798	24	0.00- 20.00	20.98	CO
7.987	7.987	0.000	152690	0.04821	24	0.00- 20.00	19.53	CO
Average of Peak Concentrations =					25			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	11217880	0.08422	42			

QC Flag Legend

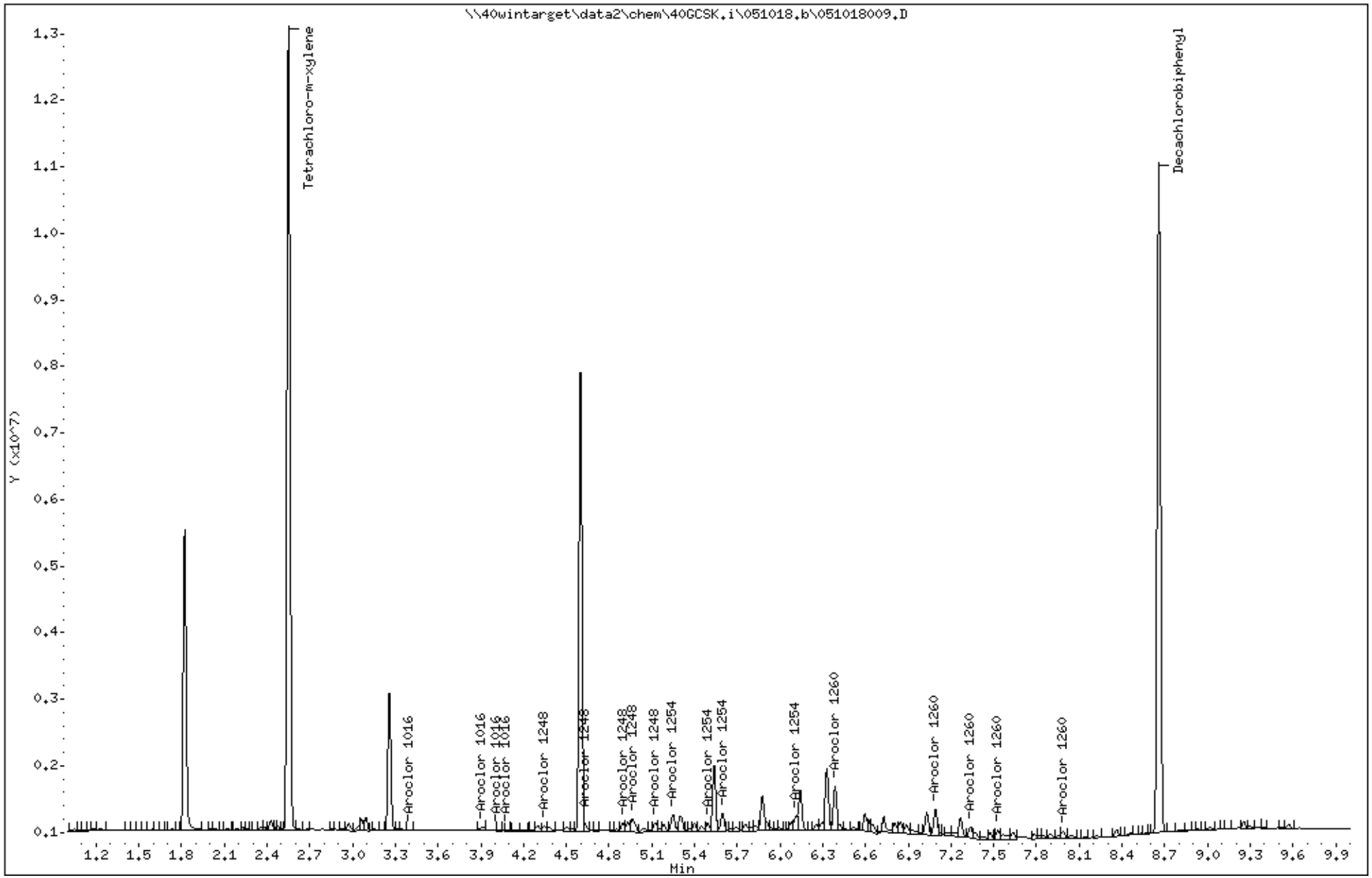
M - Compound response manually integrated.

Review Codes Legend

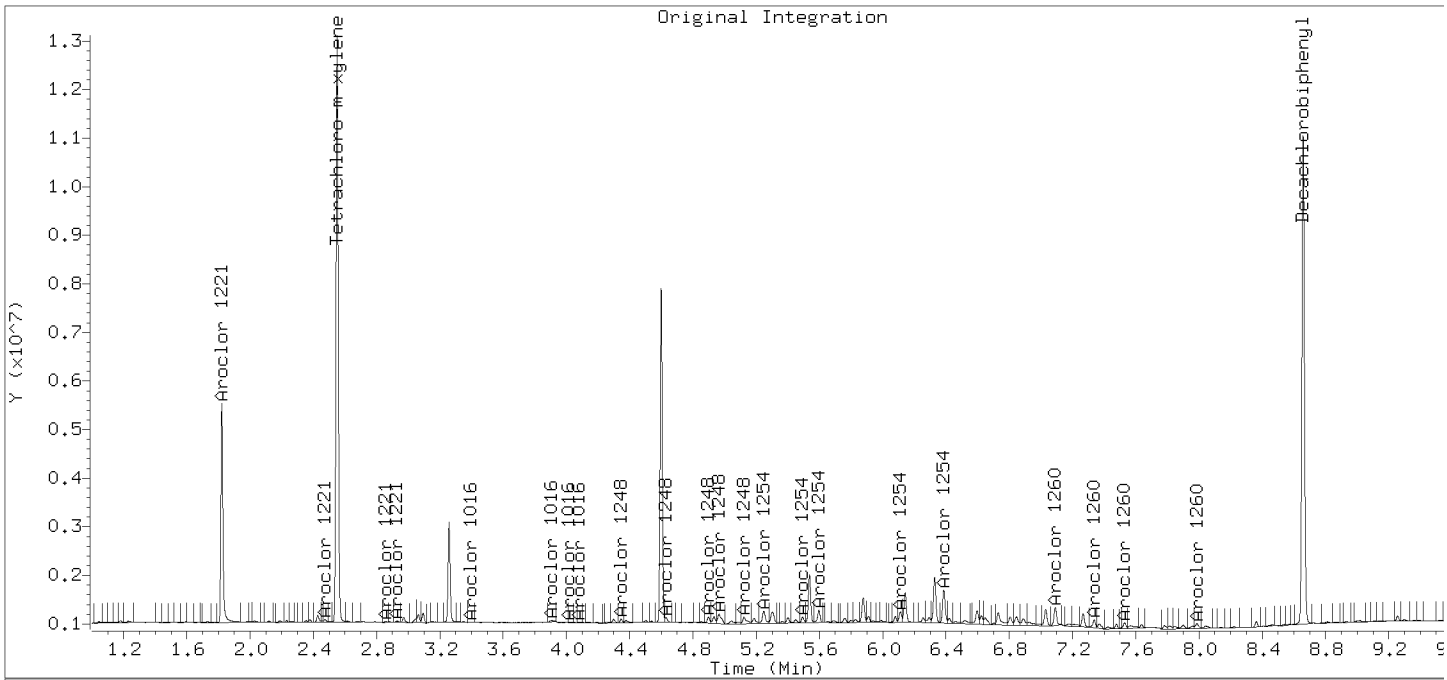
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

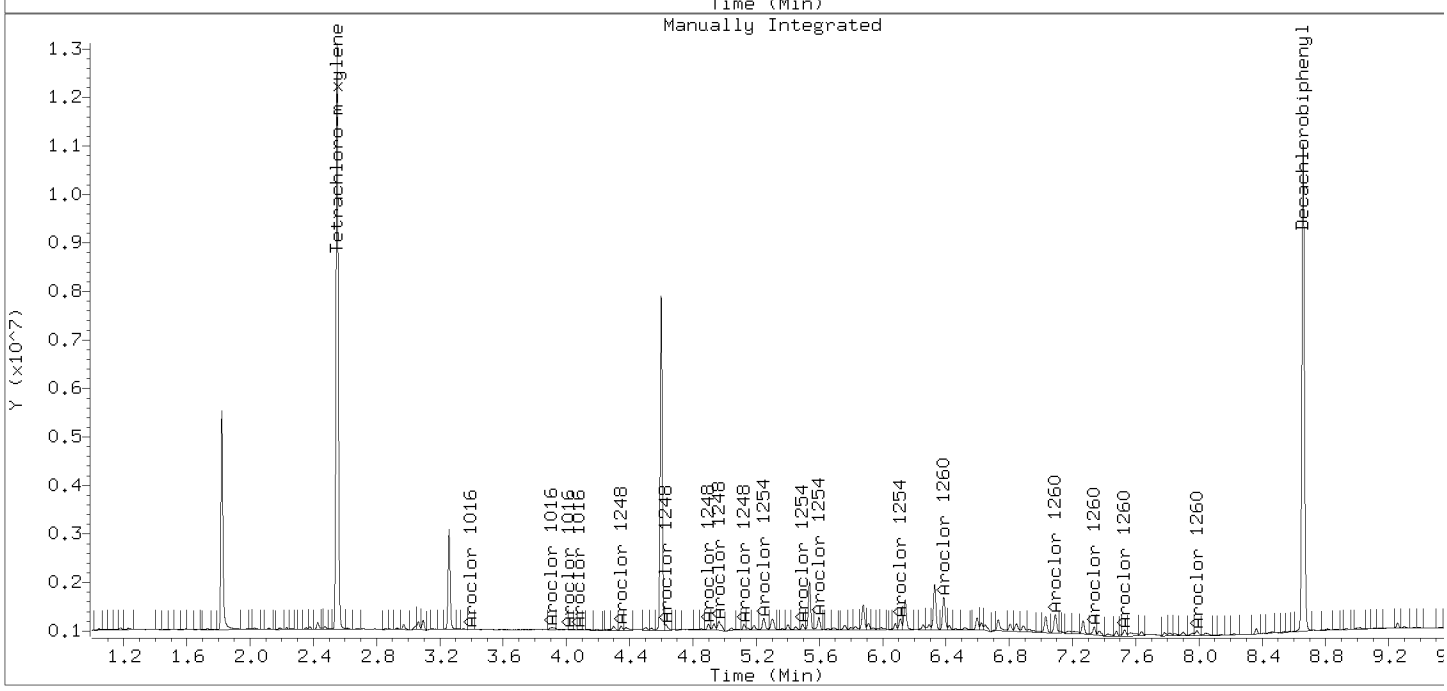
Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b\051018009.D
Date : 10-MAY-2018 09:30
Client ID: FD1-170829-01-MMSH-
Sample Info: 40158017015,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b/051018009.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 10-MAY-2018 09:30 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017015





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	4122592	0	
Aroclor 1221	4122592	0	
Aroclor 1221	4122592	0	
Aroclor 1221	4122592	0	
Aroclor 1221	4122592	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	80184	98893	CO
Aroclor 1248	80184	98893	CO
Aroclor 1248	80184	98893	CO
Aroclor 1248	80184	98893	CO
Aroclor 1248	80184	98893	CO
Aroclor 1254	367433	321414	BA
Aroclor 1254	367433	321414	BA
Aroclor 1254	367433	321414	BA
Aroclor 1254	367433	321414	BA
Aroclor 1254	367433	321414	BA
Aroclor 1260	818793	781657	CO
Aroclor 1260	818793	781657	CO
Aroclor 1260	818793	781657	CO
Aroclor 1260	818793	781657	CO
Aroclor 1260	818793	781657	CO
Tetrachloro-m-xylene	11721031	11721031	
Decachlorobiphenyl	11217880	11217880	

==========

SAMPLE NO.

FD1-170829-01-GOSH-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 40158017016
Date Analyzed: 05/07/2018 18:20
Lab File ID: 050718.B\050718020.D
Initial wt/vol: 9.9898 g Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSK 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)	15.9	J
11097-69-1	PCB-1254 (Aroclor 1254)	19.4	J
11096-82-5	PCB-1260 (Aroclor 1260)	16.4	J
1336-36-3	PCB, Total	51.6	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718020.D
Lab Smp Id: 40158017016 Client Smp ID: FD1-170829-01-GOSH-
Inj Date : 07-MAY-2018 18:20
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017016,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.990	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.042	22766	16512	0.725	0.04		
1.179	21473	22865	1.065	0.04		
1.230	24327	21541	0.885	0.04		
1.371	15251	11069	0.726	0.02		
1.465	14353	10794	0.752	0.02		
1.732	23628	15627	0.661	0.04		
1.821	4711885	5084277	1.079	9.15		
1.941	12697	12895	1.016	0.02		
1.974	13137	11986	0.912	0.02		
2.002	22210	16849	0.759	0.04		
2.027	25967	19752	0.761	0.05		
2.188	18672	13608	0.729	0.03		
2.229	15490	17213	1.111	0.03		
2.257	30377	25249	0.831	0.05		
2.355	15145	15748	1.040	0.02		
2.379	18583	20372	1.096	0.03		
2.428	613897	609294	0.993	1.19		
2.474	75726	63964	0.845	0.14		
2.550	11576401	11865139	1.025	23.10	$ 2 Tetrachloro-m-xylene	
2.686	11738	10750	0.916	0.02		
2.854	22229	20048	0.902	0.04		
2.877	17372	14429	0.831	0.03		
2.930	25280	18989	0.751	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.972	59644	45791	0.768	0.11	
3.051	91022	102399	1.125	0.17	
3.063	130628	123287	0.944	0.25	
3.093	137871	137221	0.995	0.26	
3.149	19376	15374	0.793	0.03	
3.257	2035853	2145649	1.054	3.95	
3.398	9702	9238	0.952	0.01	5 Aroclor 1016
3.480	10057	8774	0.872	0.01	
3.925	203832	141523	0.694	0.39	5 Aroclor 1016
4.081	22982	14847	0.646	0.04	5 Aroclor 1016
4.136	23326	19508	0.836	0.04	
4.298	73762	61236	0.830	0.14	
4.344	69969	63420	0.906	0.13	6 Aroclor 1248
4.375	68085	39915	0.586	0.13	
4.499	62137	45514	0.732	0.12	
4.538	41257	27413	0.664	0.08	
4.599	8277848	8803350	1.063	16.09	
4.626	94494	90408	0.957	0.18	6 Aroclor 1248
4.822	17046	14155	0.830	0.03	
4.852	19763	15978	0.808	0.03	
4.898	81767	73648	0.901	0.15	6 Aroclor 1248
4.933	103124	92572	0.898	0.20	
4.965	237647	139224	0.586	0.46	6 Aroclor 1248
5.041	62624	34882	0.557	0.12	
5.090	21231	14744	0.694	0.04	
5.124	88425	86979	0.984	0.17	6 Aroclor 1248
5.142	48838	49932	1.022	0.09	
5.186	125388	86444	0.689	0.24	
5.250	378786	316507	0.836	0.73	7 Aroclor 1254
5.300	208671	155336	0.744	0.40	
5.399	135351	115396	0.853	0.26	
5.448	58510	43920	0.751	0.11	
5.493	102169	90260	0.883	0.19	7 Aroclor 1254
5.537	1903084	1875061	0.985	3.69	
5.595	255869	201781	0.789	0.49	7 Aroclor 1254
5.651	32648	22070	0.676	0.06	
5.690	69627	37607	0.540	0.13	
5.761	94378	71588	0.759	0.18	
5.798	57460	41046	0.714	0.11	
5.828	92393	59961	0.649	0.17	
5.875	450138	355872	0.791	0.87	
5.909	256299	209323	0.817	0.49	
5.973	26035	30713	1.180	0.05	
5.988	92769	48762	0.526	0.18	
6.079	111651	98562	0.883	0.21	
6.111	190411	159338	0.837	0.37	7 Aroclor 1254
6.141	524230	433293	0.827	1.01	
6.253	138730	74533	0.537	0.26	
6.293	44878	40029	0.892	0.08	
6.327	335621	262759	0.783	0.65	
6.385	538222	455368	0.846	1.04	8 Aroclor 1260
6.420	84473	67540	0.800	0.16	
6.459	43258	26892	0.622	0.08	
6.516	74156	38762	0.523	0.14	
6.570	21038	17065	0.811	0.04	
6.596	162796	145274	0.892	0.31	
6.623	111334	101781	0.914	0.21	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.646	99663	65416	0.656	0.19	
6.692	16242	15527	0.956	0.03	
6.728	185769	112755	0.607	0.36	
6.804	113569	81835	0.721	0.22	
6.842	131770	85108	0.646	0.25	
6.887	126075	84535	0.671	0.24	
6.926	62892	44288	0.704	0.12	
6.986	40746	24112	0.592	0.07	
7.029	252915	202975	0.803	0.49	
7.090	299738	239551	0.799	0.58	8 Aroclor 1260
7.113	46719	35856	0.767	0.09	
7.183	79613	37040	0.465	0.15	
7.265	137338	95954	0.699	0.26	
7.336	134153	102531	0.764	0.26	8 Aroclor 1260
7.368	120962	69367	0.573	0.23	
7.422	95336	46682	0.490	0.18	
7.475	69369	62755	0.905	0.13	
7.527	135956	84816	0.624	0.26	8 Aroclor 1260
7.563	223831	113364	0.506	0.43	
7.605	100326	70293	0.701	0.19	
7.636	61705	49216	0.798	0.11	
7.666	19917	25519	1.281	0.03	
7.689	78321	39195	0.500	0.15	
7.720	92846	55363	0.596	0.18	
7.781	79844	62380	0.781	0.15	
7.814	58011	44190	0.762	0.11	
7.845	37985	24522	0.646	0.07	
7.898	49400	28658	0.580	0.09	
7.959	51343	35757	0.696	0.09	
7.987	66092	49540	0.750	0.12	8 Aroclor 1260
8.037	31048	16985	0.547	0.06	
8.137	33947	20673	0.609	0.06	
8.220	23507	19757	0.840	0.04	
8.360	104073	91644	0.881	0.20	
8.403	16497	13136	0.796	0.03	
8.462	73461	44792	0.610	0.14	
8.534	24193	19654	0.812	0.04	
8.566	20795	17031	0.819	0.04	
8.657	11356915	10020210	0.882	22.07	$ 12 Decachlorobiphenyl
8.805	18311	13484	0.736	0.03	
8.930	11898	14205	1.194	0.02	
9.004	54939	30294	0.551	0.10	
9.253	306082	280527	0.917	0.59	
9.298	25122	18035	0.718	0.04	
9.530	58021	34368	0.592	0.11	
9.568	38271	34963	0.914	0.07	
	51446810	48817652		100.000	

Total unknown % area = 49

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718020.D
Lab Smp Id: 40158017016 Client Smp ID: FD1-170829-01-GOSH-
Inj Date : 07-MAY-2018 18:20
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017016,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.990	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221						CAS #: 11104-28-2		
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.550	2.549	0.001	11576400	0.09612	48			
3 Aroclor 1242						CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232						CAS #: 1114-16-5		
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.343	4.343	0.000	69968	0.02933	15	0.00- 20.00	100.00(M)	CO
4.625	4.630	-0.005	94493	0.02225	11	0.00- 20.00	135.05	CO
4.898	4.898	0.000	81767	0.04014	20	0.00- 20.00	116.86	CO
4.964	4.963	0.001	237647	0.04339	22	0.00- 20.00	339.65	CO
5.124	5.123	0.001	88424	0.02337	12	0.00- 20.00	126.38	CO
		Average of Peak Concentrations =			16			
7 Aroclor 1254					CAS #: 11097-69-1			
5.250	5.248	0.002	378785	0.06716	34	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	102168	0.02191	11	0.00- 20.00	26.97	BA
5.595	5.596	-0.001	255869	0.02988	15	0.00- 20.00	67.55	BA
6.111	6.113	-0.002	190411	0.03584	18	0.00- 20.00	50.27	BA
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			19			
8 Aroclor 1260					CAS #: 11096-82-5			
6.385	6.387	-0.002	538222	0.05377	27	0.00- 20.00	100.00(M)	CO
7.090	7.090	0.000	299737	0.02547	13	0.00- 20.00	55.69	CO
7.336	7.338	-0.002	134153	0.02372	12	0.00- 20.00	24.93	CO
7.527	7.529	-0.002	135955	0.03977	20	0.00- 20.00	25.26	CO
7.986	7.987	-0.001	66091	0.02087	10	0.00- 20.00	12.28	CO
		Average of Peak Concentrations =			16			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	11356915	0.08527	43			

QC Flag Legend

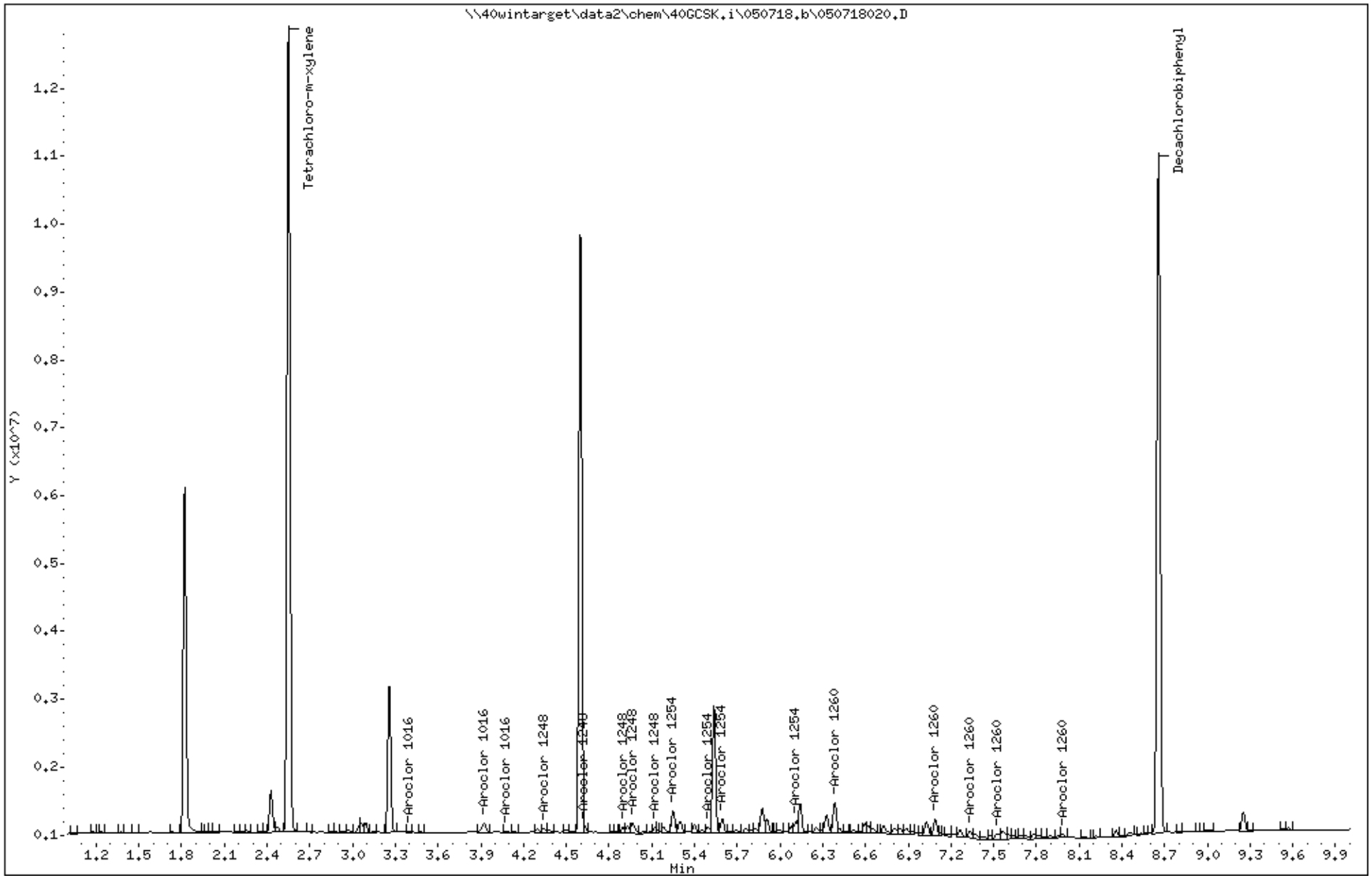
M - Compound response manually integrated.

Review Codes Legend

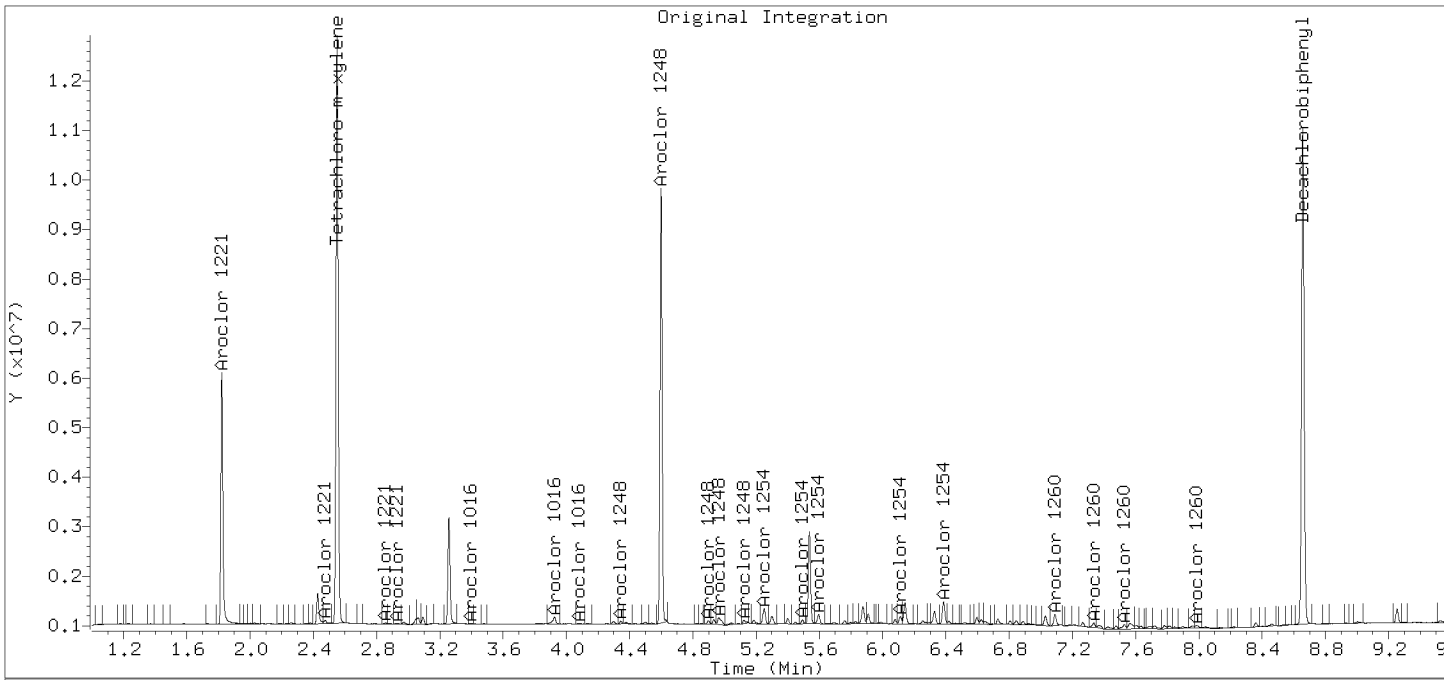
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

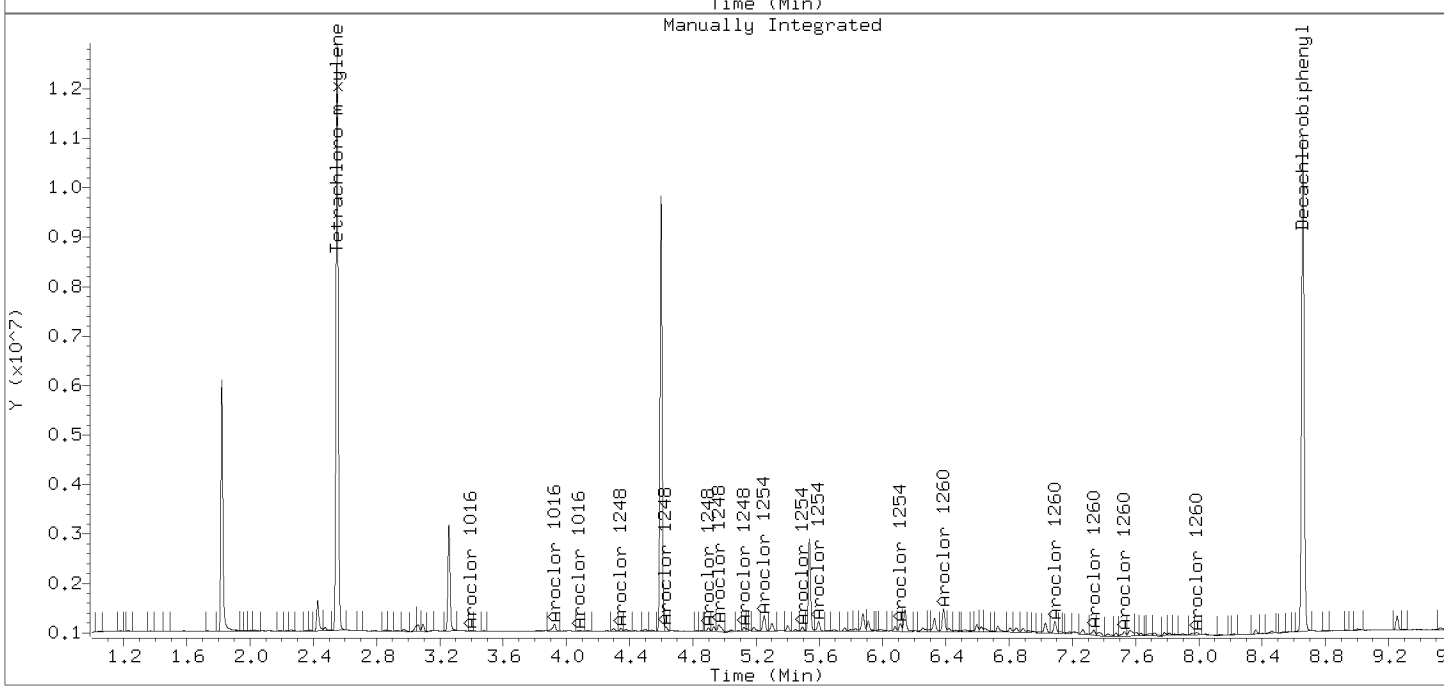
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718020.D
Date : 07-MAY-2018 18:20
Client ID: FD1-170829-01-GOSH-
Sample Info: 40158017016,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718020.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 18:20 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017016





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	4711884	0	
Aroclor 1221	4711884	0	
Aroclor 1221	4711884	0	
Aroclor 1221	4711884	0	
Aroclor 1221	4711884	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	50134	69968	CO
Aroclor 1248	50134	69968	CO
Aroclor 1248	50134	69968	CO
Aroclor 1248	50134	69968	CO
Aroclor 1248	50134	69968	CO
Aroclor 1254	348235	378785	BA
Aroclor 1254	348235	378785	BA
Aroclor 1254	348235	378785	BA
Aroclor 1254	348235	378785	BA
Aroclor 1254	348235	378785	BA
Aroclor 1260	502520	538222	CO
Aroclor 1260	502520	538222	CO
Aroclor 1260	502520	538222	CO
Aroclor 1260	502520	538222	CO
Aroclor 1260	502520	538222	CO
Tetrachloro-m-xylene	11576400	11576400	
Decachlorobiphenyl	11356915	11356915	

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SAMPLE NO.

FD1-170829-01-GOSH-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 40158017017
Date Analyzed: 05/07/2018 18:36
Lab File ID: 050718.B\050718021.D
Initial wt/vol: 10.0147 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSK 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)	16.8	J
11097-69-1	PCB-1254 (Aroclor 1254)	17.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	19.3	J
1336-36-3	PCB, Total	54.0	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718021.D
Lab Smp Id: 40158017017 Client Smp ID: FD1-170829-01-GOSH-
Inj Date : 07-MAY-2018 18:36
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017017,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.015	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.017	13467	14167	1.052	0.03		
1.042	13595	13491	0.992	0.03		
1.179	20094	22974	1.143	0.04		
1.228	11401	17069	1.497	0.02		
1.463	13311	14407	1.082	0.03		
1.730	26060	23068	0.885	0.06		
1.823	1197567	1207841	1.009	2.97		
2.116	19157	16326	0.852	0.04		
2.186	36894	24763	0.671	0.09		
2.229	32913	36166	1.099	0.08		
2.260	43997	29176	0.663	0.10		
2.357	35537	35290	0.993	0.08		
2.379	53692	53498	0.996	0.13		
2.431	117293	97408	0.830	0.29		
2.474	87834	66000	0.751	0.21		
2.550	11185449	11385723	1.018	28.32	$ 2 Tetrachloro-m-xylene	BA
2.790	16081	9431	0.586	0.03		
2.857	21811	20695	0.949	0.05		
2.927	21175	17204	0.812	0.05		
2.971	59803	44599	0.746	0.14		
3.049	57312	52397	0.914	0.14		
3.064	97095	95349	0.982	0.24		
3.093	130605	130897	1.002	0.32		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.259	316500	297042	0.939	0.78	
3.394	18389	14473	0.787	0.04	
3.911	94566	54180	0.573	0.23	
4.132	27982	19861	0.710	0.06	
4.299	85126	70712	0.831	0.21	
4.344	72806	68654	0.943	0.18	6 Aroclor 1248
4.377	70236	45205	0.644	0.17	
4.502	53413	45098	0.844	0.13	
4.535	28595	24786	0.867	0.07	
4.599	3762576	3914087	1.040	9.33	
4.630	88154	79194	0.898	0.21	6 Aroclor 1248
4.854	18303	16694	0.912	0.04	
4.899	88184	80622	0.914	0.21	6 Aroclor 1248
4.932	106387	94803	0.891	0.26	
4.964	268219	152140	0.567	0.66	6 Aroclor 1248
5.043	66924	36668	0.548	0.16	
5.070	5120	7772	1.518	0.01	
5.091	15044	13687	0.910	0.03	
5.124	93550	91977	0.983	0.23	6 Aroclor 1248
5.143	41449	47092	1.136	0.10	
5.184	127927	92522	0.723	0.31	
5.247	252982	217389	0.859	0.62	7 Aroclor 1254
5.299	216808	168809	0.779	0.53	
5.365	27669	22445	0.811	0.06	
5.400	148399	129728	0.874	0.36	
5.449	57410	47003	0.819	0.14	
5.493	118800	106387	0.896	0.29	7 Aroclor 1254
5.536	1959507	1903179	0.971	4.85	
5.596	295889	235243	0.795	0.73	7 Aroclor 1254
5.651	32412	20842	0.643	0.08	
5.688	65280	38686	0.593	0.16	
5.759	102345	85221	0.833	0.25	
5.797	64567	45338	0.702	0.16	
5.826	84778	57354	0.677	0.21	
5.876	521145	427365	0.820	1.29	
5.908	233839	188503	0.806	0.57	
5.972	29761	31322	1.052	0.07	
5.989	89074	49411	0.555	0.22	
6.078	132774	119027	0.896	0.32	
6.112	204407	177638	0.869	0.50	7 Aroclor 1254
6.141	637113	561558	0.881	1.58	
6.254	154158	92436	0.600	0.38	
6.328	287719	210045	0.730	0.71	
6.385	658689	565435	0.858	1.63	8 Aroclor 1260
6.420	89527	75343	0.842	0.22	
6.459	46085	27109	0.588	0.11	
6.519	82070	44805	0.546	0.20	
6.595	208897	182287	0.873	0.51	
6.624	131776	118558	0.900	0.32	
6.647	104746	83284	0.795	0.25	
6.692	16971	17258	1.017	0.04	
6.728	159446	97648	0.612	0.39	
6.805	156933	107126	0.683	0.38	
6.844	154759	108666	0.702	0.38	
6.888	152958	103905	0.679	0.37	
6.925	76303	52616	0.690	0.18	
6.986	56846	32153	0.566	0.14	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.030	286889	226849	0.791	0.71	
7.089	396707	318613	0.803	0.98	8 Aroclor 1260
7.123	42903	48149	1.122	0.10	
7.180	68038	41932	0.616	0.16	
7.205	94495	44142	0.467	0.23	
7.266	113301	69910	0.617	0.28	
7.336	143533	125906	0.877	0.35	8 Aroclor 1260
7.368	106252	67292	0.633	0.26	
7.423	75380	43296	0.574	0.18	
7.477	64402	67498	1.048	0.15	
7.526	106993	83817	0.783	0.26	8 Aroclor 1260
7.567	69860	39518	0.566	0.17	
7.608	31865	22570	0.708	0.07	
7.634	22954	25423	1.108	0.05	
7.664	10029	10758	1.073	0.02	
7.702	11476	12153	1.059	0.02	
7.719	48836	21331	0.437	0.12	
7.781	50763	48079	0.947	0.12	
7.812	52052	38720	0.744	0.12	
7.849	38271	22429	0.586	0.09	
7.900	52215	38143	0.730	0.12	
7.962	81460	49358	0.606	0.20	
7.985	116967	79525	0.680	0.29	8 Aroclor 1260
8.041	62001	31283	0.505	0.15	
8.135	24358	18814	0.772	0.06	
8.217	33602	19725	0.587	0.08	
8.273	11449	9347	0.816	0.02	
8.362	111702	95440	0.854	0.27	
8.404	14858	14407	0.970	0.03	
8.463	96037	55729	0.580	0.23	
8.536	19914	17309	0.869	0.04	
8.567	14837	15478	1.043	0.03	
8.657	10677226	9488234	0.889	26.48	$ 12 Decachlorobiphenyl
8.807	16746	15765	0.941	0.04	
8.932	10659	8786	0.824	0.02	
8.999	65119	32298	0.496	0.16	
9.139	19477	13735	0.705	0.04	
9.254	373561	361152	0.967	0.92	
9.526	76967	47410	0.616	0.19	
9.566	32848	27293	0.831	0.08	
	40321437	37063946		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718021.D
Lab Smp Id: 40158017017 Client Smp ID: FD1-170829-01-GOSH-
Inj Date : 07-MAY-2018 18:36
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017017,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.015	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								BA
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	11185449	0.09287	46		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232					CAS #: 1114-16-5			
Peaks not detected for Quant. or Qual. signal(s).								

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

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

6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	72806	0.03052	15	0.00- 20.00	100.00(M)	CO
4.630	4.630	0.000	88153	0.02075	10	0.00- 20.00	121.08	CO
4.898	4.898	0.000	88183	0.04329	22	0.00- 20.00	121.12	CO
4.963	4.963	0.000	268219	0.04897	24	0.00- 20.00	368.40	CO
5.124	5.123	0.001	93550	0.02473	12	0.00- 20.00	128.49	CO
		Average of Peak Concentrations =			17			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	252981	0.04486	22	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	118800	0.02547	13	0.00- 20.00	46.96	BA
5.595	5.596	-0.001	295889	0.03456	17	0.00- 20.00	116.96	BA
6.111	6.113	-0.002	204407	0.03847	19	0.00- 20.00	80.80	BA
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			18			
8 Aroclor 1260					CAS #: 11096-82-5			
6.384	6.387	-0.003	658689	0.06580	33	0.00- 20.00	100.00(M)	CO
7.089	7.090	-0.001	396707	0.03371	17	0.00- 20.00	60.23	CO
7.336	7.338	-0.002	143532	0.02538	13	0.00- 20.00	21.79	CO
7.526	7.529	-0.003	106992	0.03129	16	0.00- 20.00	16.24	CO
7.985	7.987	-0.002	116966	0.03693	18	0.00- 20.00	17.76	CO
		Average of Peak Concentrations =			19			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	10677225	0.08016	40			

QC Flag Legend

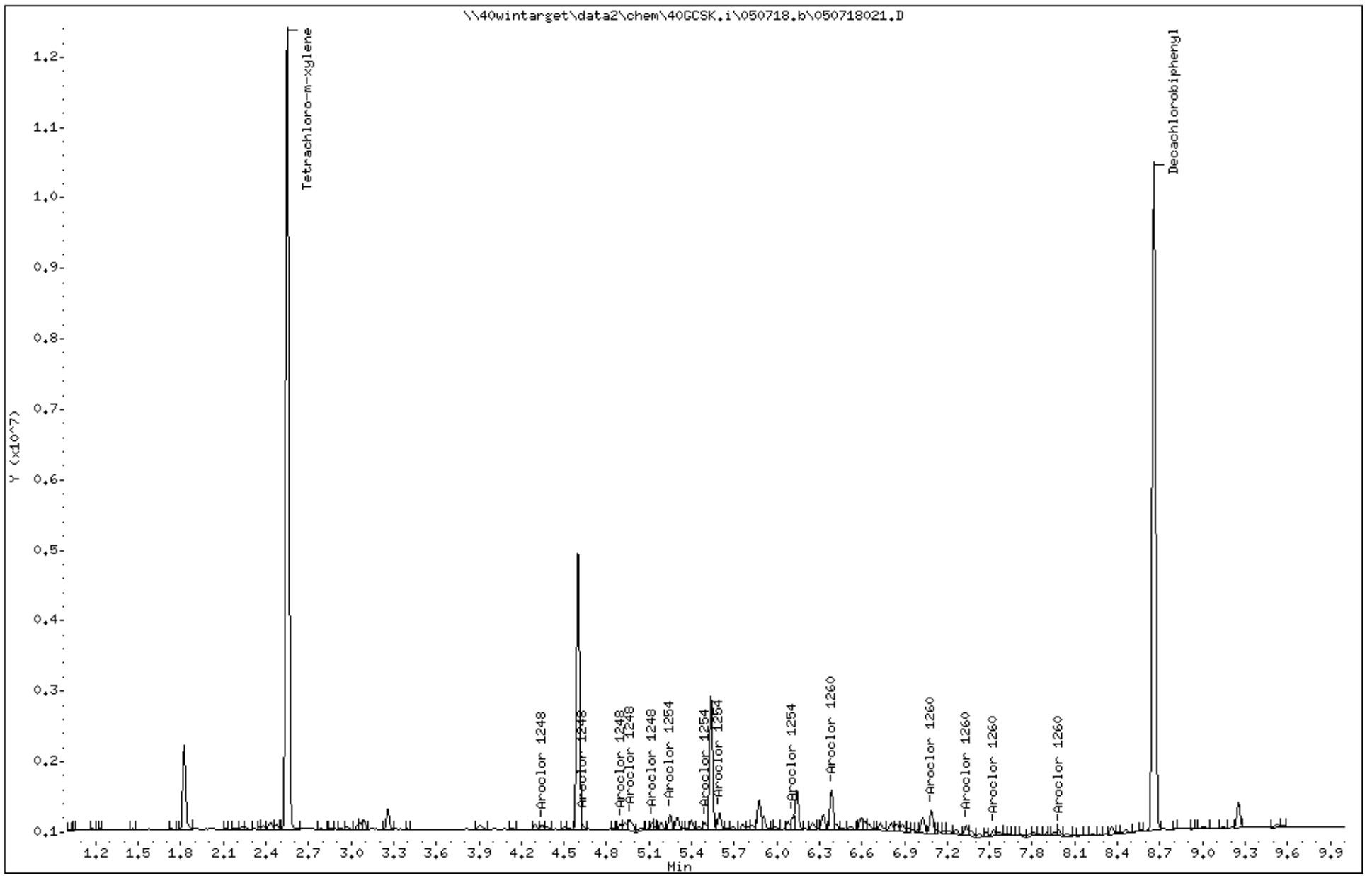
M - Compound response manually integrated.

Review Codes Legend

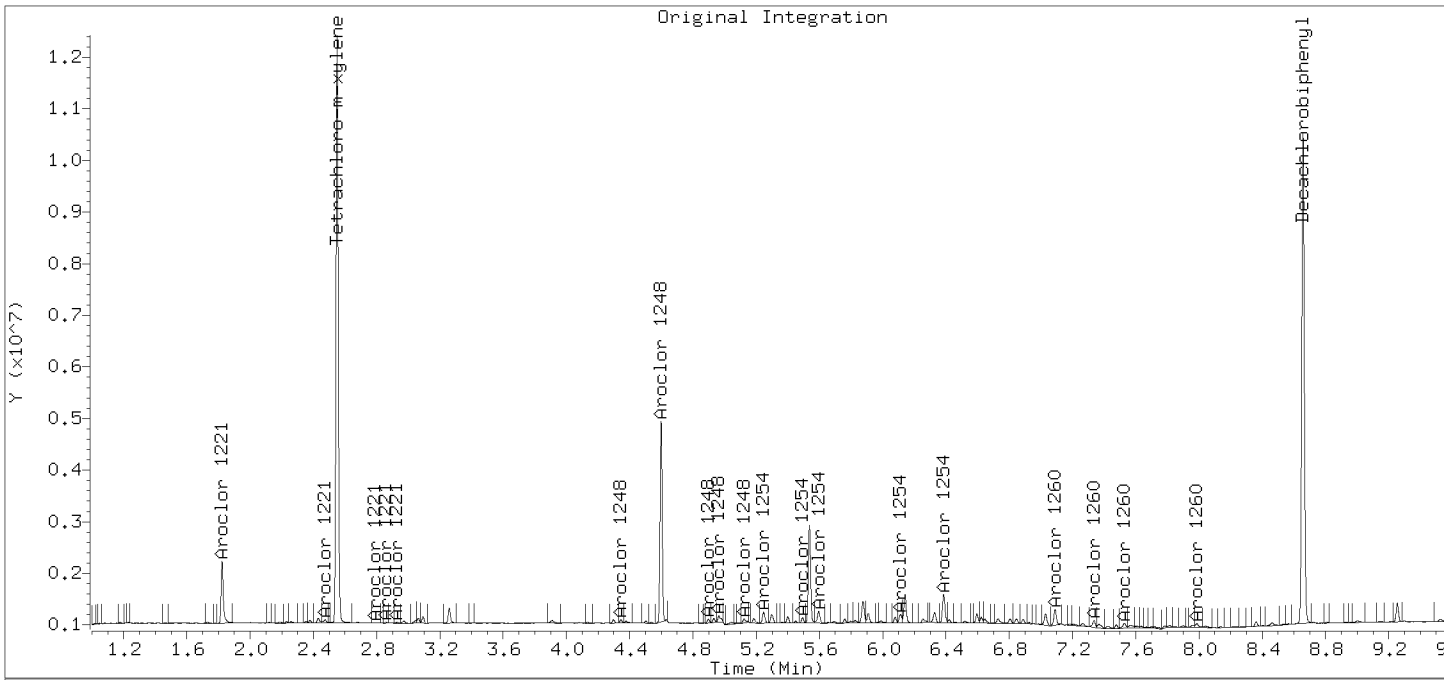
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

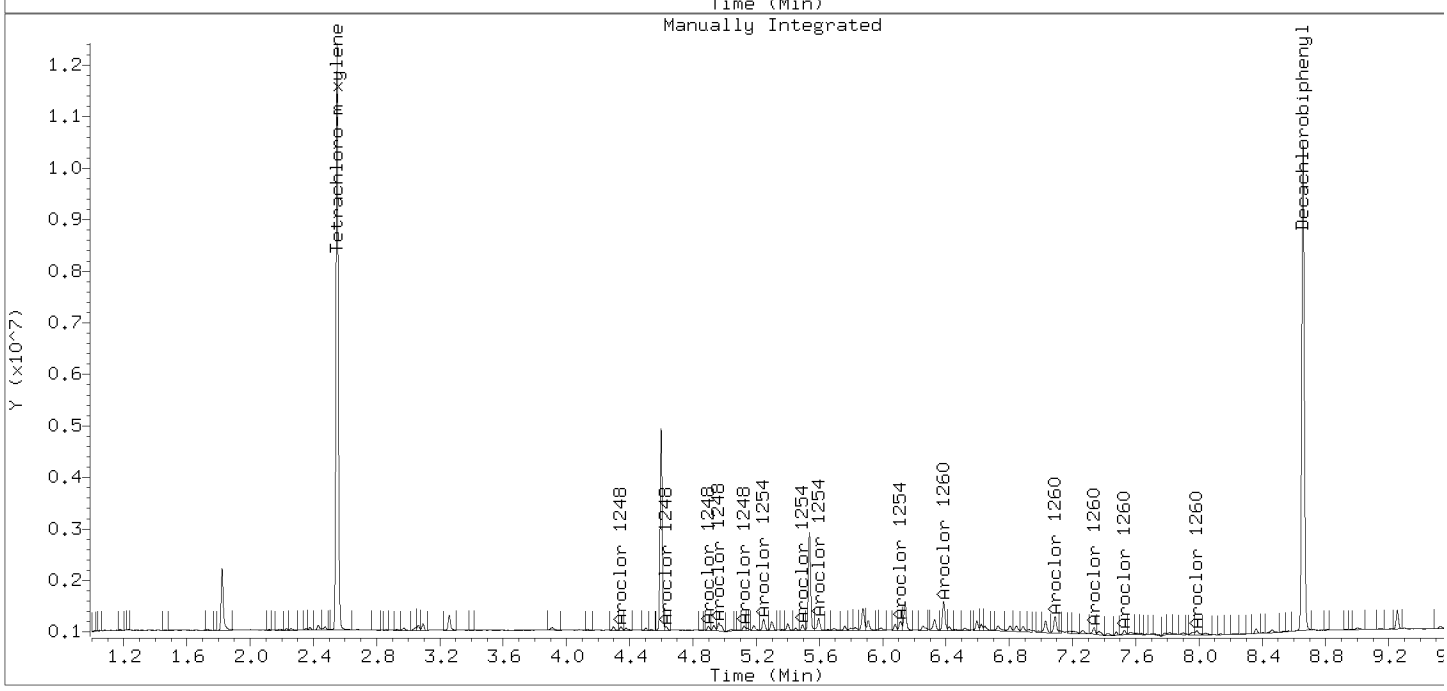
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718021.D
Date : 07-MAY-2018 18:36
Client ID: FD1-170829-01-GOSH-
Sample Info: 40158017017,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 18:36 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017017





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	1150018	0	BA
Aroclor 1221	1150018	0	BA
Aroclor 1221	1150018	0	BA
Aroclor 1221	1150018	0	BA
Aroclor 1221	1150018	0	BA
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	62988	72806	CO
Aroclor 1248	62988	72806	CO
Aroclor 1248	62988	72806	CO
Aroclor 1248	62988	72806	CO
Aroclor 1248	62988	72806	CO
Aroclor 1254	234289	252981	BA
Aroclor 1254	234289	252981	BA
Aroclor 1254	234289	252981	BA
Aroclor 1254	234289	252981	BA
Aroclor 1254	234289	252981	BA
Aroclor 1260	622573	658689	CO
Aroclor 1260	622573	658689	CO
Aroclor 1260	622573	658689	CO
Aroclor 1260	622573	658689	CO
Aroclor 1260	622573	658689	CO
Tetrachloro-m-xylene	11143803	11185449	BA
Decachlorobiphenyl	10677225	10677225	

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SAMPLE NO.

FD1-170829-01-GOSH-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 40158017018
Date Analyzed: 05/07/2018 18:52
Lab File ID: 050718.B\050718022.D
Initial wt/vol: 10.0284 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSK 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)	18.8	J
11097-69-1	PCB-1254 (Aroclor 1254)	18.8	J
11096-82-5	PCB-1260 (Aroclor 1260)	19.1	J
1336-36-3	PCB, Total	56.7	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718022.D
Lab Smp Id: 40158017018 Client Smp ID: FD1-170829-01-GOSH-
Inj Date : 07-MAY-2018 18:52
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017018,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.028	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.022	13573	12487	0.920	0.02		
1.046	22426	17532	0.782	0.04		
1.083	14947	11635	0.778	0.03		
1.178	14431	16530	1.145	0.03		
1.231	11412	15162	1.329	0.02		
1.462	12791	12215	0.955	0.02		
1.728	18153	18936	1.043	0.03		
1.822	2349603	2474294	1.053	5.15		
2.031	14084	12242	0.869	0.03		
2.120	13209	10317	0.781	0.02		
2.185	23409	17162	0.733	0.05		
2.229	21072	23371	1.109	0.04		
2.258	13284	13344	1.004	0.02		
2.355	25919	25365	0.979	0.05		
2.378	39377	38215	0.970	0.08		
2.428	195255	172846	0.885	0.42		
2.475	61252	51323	0.838	0.13		
2.550	11031970	11304665	1.025	24.20	$ 2 Tetrachloro-m-xylene	BA
2.668	14727	12874	0.874	0.03		
2.786	12938	8486	0.656	0.02		
2.857	26646	23081	0.866	0.05		
2.928	28659	20700	0.722	0.06		
2.971	57631	37998	0.659	0.12		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.049	48662	42096	0.865	0.10	
3.063	55947	60694	1.085	0.12	
3.093	99624	96075	0.964	0.21	
3.155	38018	24872	0.654	0.08	
3.258	971130	976540	1.006	2.13	
3.594	14811	10942	0.739	0.03	5 Aroclor 1016
3.811	11062	11082	1.002	0.02	
3.909	120049	60010	0.500	0.26	5 Aroclor 1016
4.076	23986	19235	0.802	0.05	5 Aroclor 1016
4.136	29736	19916	0.670	0.06	
4.298	98162	85875	0.875	0.21	
4.345	92450	89734	0.971	0.20	6 Aroclor 1248
4.376	101162	69161	0.684	0.22	
4.432	23164	13526	0.584	0.05	
4.502	58753	46899	0.798	0.12	
4.536	35201	29338	0.833	0.07	
4.599	7044463	7400414	1.051	15.45	
4.629	114931	98335	0.856	0.25	6 Aroclor 1248
4.821	20978	13524	0.645	0.04	
4.849	24799	20467	0.825	0.05	
4.898	97371	87400	0.898	0.21	6 Aroclor 1248
4.932	106039	99246	0.936	0.23	
4.964	273945	156099	0.570	0.60	6 Aroclor 1248
5.041	69581	42220	0.607	0.15	
5.086	15258	11233	0.736	0.03	
5.123	93412	87584	0.938	0.20	6 Aroclor 1248
5.145	38498	46972	1.220	0.08	
5.185	128801	93189	0.724	0.28	
5.247	290052	244298	0.842	0.63	7 Aroclor 1254
5.298	220057	174627	0.794	0.48	
5.370	25086	20881	0.832	0.05	
5.400	121504	104691	0.862	0.26	
5.448	62306	53768	0.863	0.13	
5.493	124452	111545	0.896	0.27	7 Aroclor 1254
5.537	1710141	1643049	0.961	3.75	
5.596	287894	244874	0.851	0.63	7 Aroclor 1254
5.659	24434	16720	0.684	0.05	
5.691	60682	37716	0.622	0.13	
5.760	113783	95424	0.839	0.24	
5.796	67668	46952	0.694	0.14	
5.826	87591	60937	0.696	0.19	
5.875	544692	453887	0.833	1.19	
5.909	206824	177093	0.856	0.45	
5.971	37959	32205	0.848	0.08	
5.990	51089	40510	0.793	0.11	
6.017	32458	25723	0.792	0.07	
6.078	136730	124095	0.908	0.30	
6.112	206445	189380	0.917	0.45	7 Aroclor 1254
6.141	670285	576324	0.860	1.47	
6.254	159053	95745	0.602	0.34	
6.327	267500	191570	0.716	0.58	
6.385	694931	593714	0.854	1.52	8 Aroclor 1260
6.420	91920	77081	0.839	0.20	
6.461	37921	27589	0.728	0.08	
6.515	92850	50881	0.548	0.20	
6.595	215821	195578	0.906	0.47	
6.623	135637	127065	0.937	0.29	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.648	107485	85329	0.794	0.23	
6.690	21737	20219	0.930	0.04	
6.728	148483	79822	0.538	0.32	
6.804	131439	102931	0.783	0.28	
6.844	148735	102123	0.687	0.32	
6.889	152698	106616	0.698	0.33	
6.926	77857	48358	0.621	0.17	
6.951	33064	30632	0.926	0.07	
6.983	49501	28736	0.581	0.10	
7.030	235539	184341	0.783	0.51	
7.089	399715	334067	0.836	0.87	8 Aroclor 1260
7.121	51030	46476	0.911	0.11	
7.204	91316	47298	0.518	0.20	
7.266	103292	66158	0.640	0.22	
7.336	140737	125241	0.890	0.30	8 Aroclor 1260
7.368	93718	62908	0.671	0.20	
7.425	61441	40329	0.656	0.13	
7.476	63496	65555	1.032	0.13	
7.527	98707	83114	0.842	0.21	8 Aroclor 1260
7.566	74045	42432	0.573	0.16	
7.605	32467	24791	0.764	0.07	
7.635	19307	20099	1.041	0.04	
7.693	11940	10841	0.908	0.02	
7.719	50107	25645	0.512	0.10	
7.782	57429	47252	0.823	0.12	
7.815	46880	34500	0.736	0.10	
7.900	38458	26748	0.696	0.08	
7.959	58537	42173	0.720	0.12	
7.984	109151	72223	0.662	0.23	8 Aroclor 1260
8.042	66541	29537	0.444	0.14	
8.137	21402	19508	0.912	0.04	
8.361	109901	94660	0.861	0.24	
8.403	10951	11051	1.009	0.02	
8.443	36979	37418	1.012	0.08	
8.462	81437	47067	0.578	0.17	
8.534	24033	19028	0.792	0.05	
8.566	22335	19175	0.859	0.04	
8.656	11200645	9717068	0.868	25.19	$ 12 Decachlorobiphenyl
8.724	25012	19349	0.774	0.05	
8.811	18289	14386	0.787	0.04	
9.000	117710	71277	0.606	0.25	
9.253	277410	249770	0.900	0.60	
9.525	167430	96837	0.578	0.36	
9.567	19803	15841	0.800	0.04	
	45572708	42466309		100.000	

Total unknown % area = 44

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718022.D
Lab Smp Id: 40158017018 Client Smp ID: FD1-170829-01-GOSH-
Inj Date : 07-MAY-2018 18:52
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017018,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.028	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO		REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2				
Operator disabled compound identification.									BA
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8				
2.550	2.549	0.001	11031969	0.09160	46			(M)	BA
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			
Compound Not Detected.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	92449	0.03876	19	0.00- 20.00	100.00(M)	BA
4.629	4.630	-0.001	114930	0.02706	13	0.00- 20.00	124.32	BA
4.898	4.898	0.000	97370	0.04780	24	0.00- 20.00	105.32	BA
4.963	4.963	0.000	273944	0.05001	25	0.00- 20.00	296.32	BA
5.122	5.123	-0.001	93411	0.02469	12	0.00- 20.00	101.04	BA
			Average of Peak Concentrations =		19			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	290051	0.05143	26	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	124451	0.02668	13	0.00- 20.00	42.91	BA
5.595	5.596	-0.001	287894	0.03362	17	0.00- 20.00	99.26	BA
6.112	6.113	-0.001	206444	0.03886	19	0.00- 20.00	71.18	BA
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		19			
8 Aroclor 1260					CAS #: 11096-82-5			
6.385	6.387	-0.002	694930	0.06942	35	0.00- 20.00	100.00(M)	CO
7.089	7.090	-0.001	399714	0.03396	17	0.00- 20.00	57.52	CO
7.335	7.338	-0.003	140736	0.02488	12	0.00- 20.00	20.25	CO
7.527	7.529	-0.002	98706	0.02887	14	0.00- 20.00	14.20	CO
7.984	7.987	-0.003	109151	0.03446	17	0.00- 20.00	15.71	CO
			Average of Peak Concentrations =		19			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	11200645	0.08409	42			

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\40GCSK.i\050718.b\050718022.D

Date : 07-MAY-2018 18:52

Client ID: FD1-170829-01-GOSH-

Instrument: 40GCSK.i

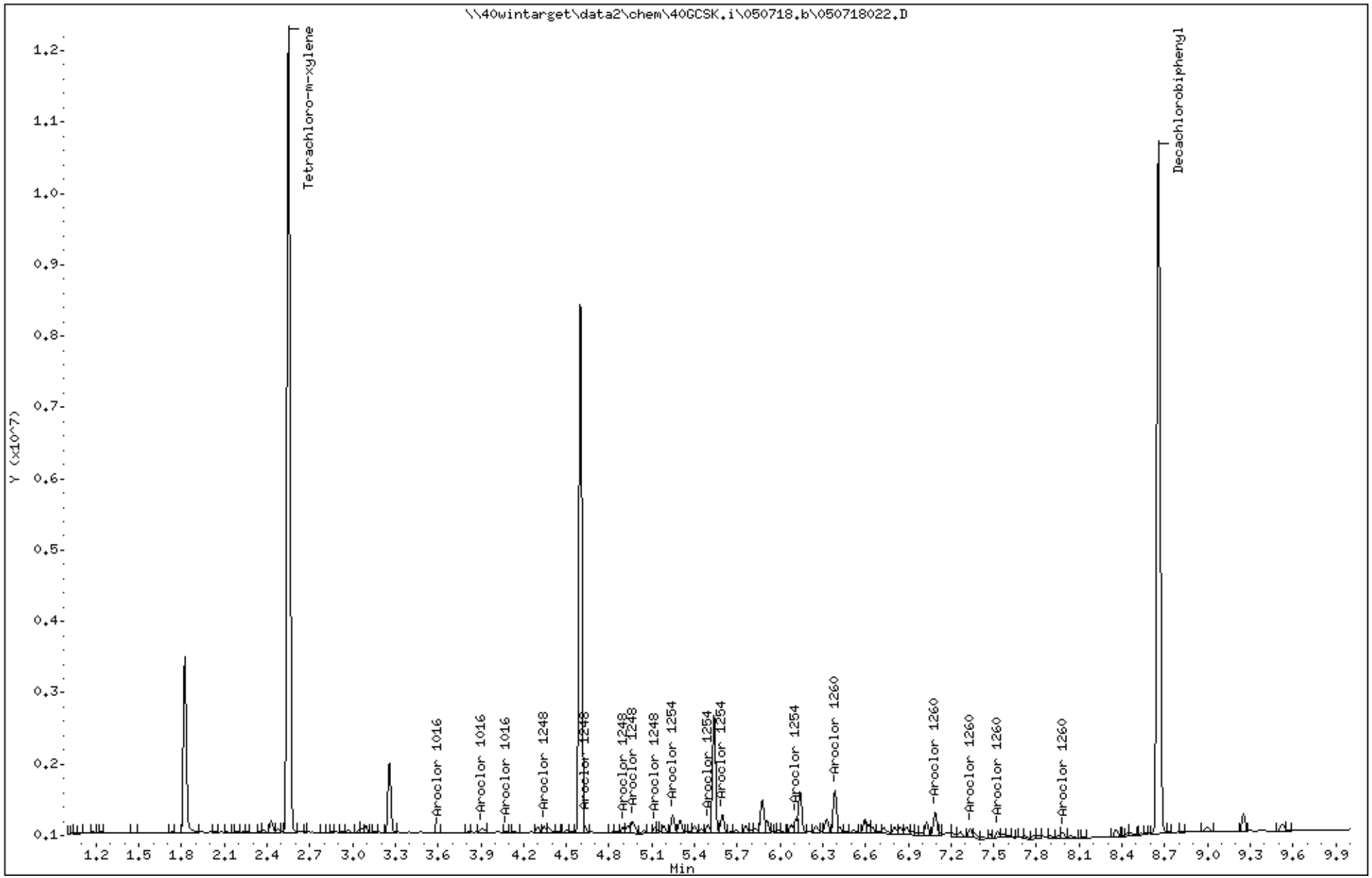
Sample Info: 40158017018,

Volume Injected (uL): 1.0

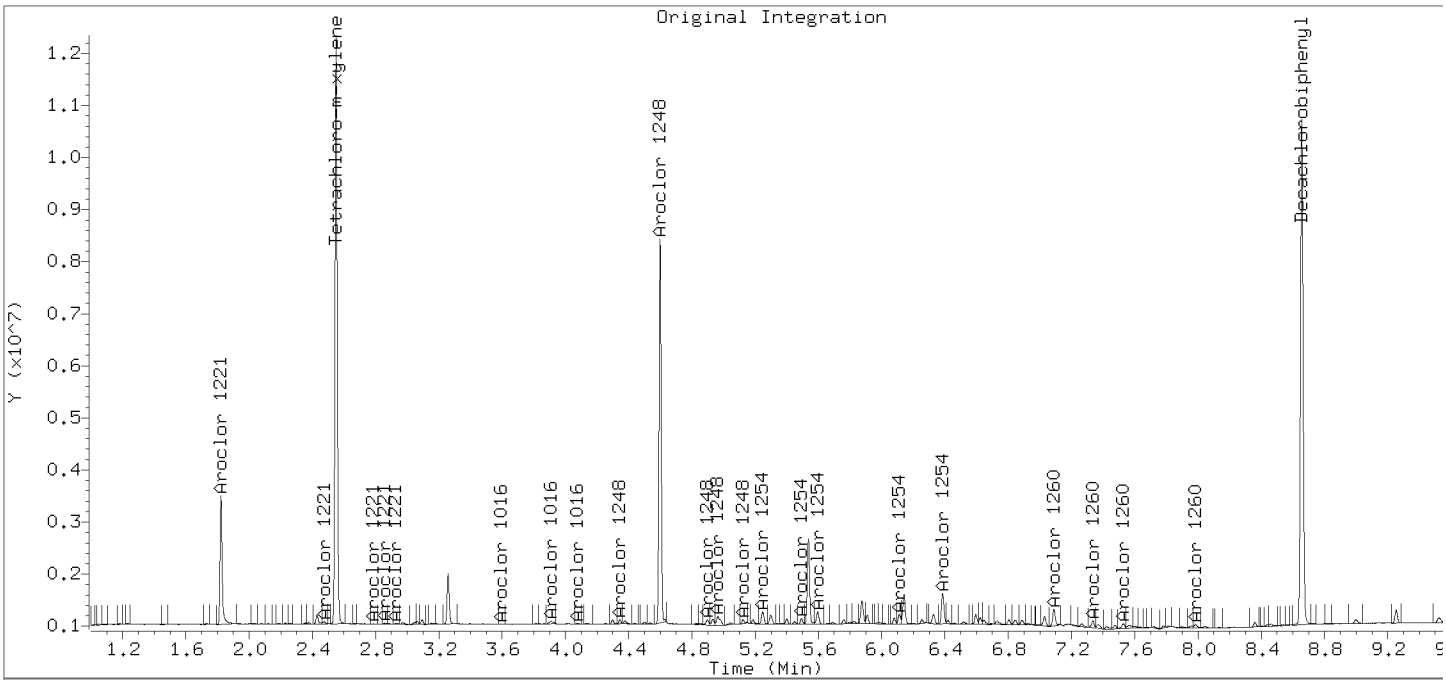
Operator: BLM

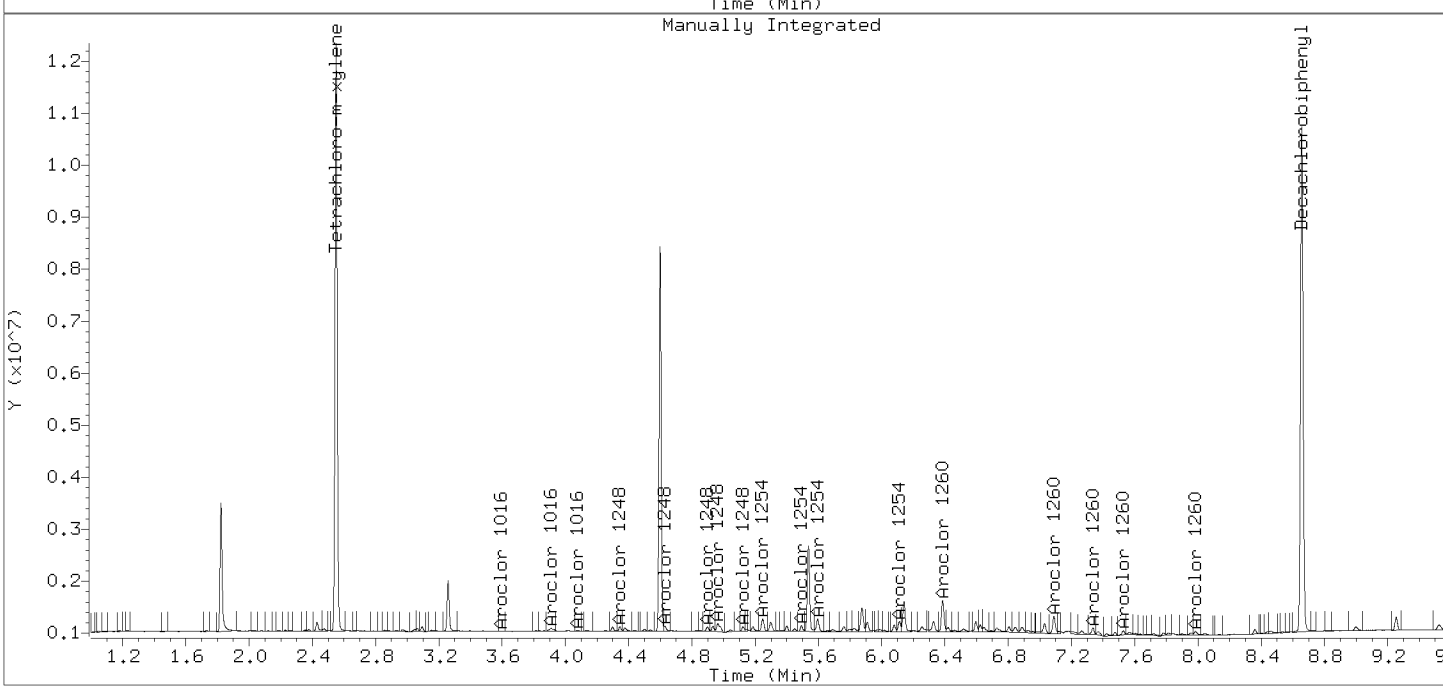
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718022.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 18:52 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017018





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	2349602	0	BA
Aroclor 1221	2349602	0	BA
Aroclor 1221	2349602	0	BA
Aroclor 1221	2349602	0	BA
Aroclor 1221	2349602	0	BA
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	71248	92449	BA
Aroclor 1248	71248	92449	BA
Aroclor 1248	71248	92449	BA
Aroclor 1248	71248	92449	BA
Aroclor 1248	71248	92449	BA
Aroclor 1254	262274	290051	BA
Aroclor 1254	262274	290051	BA
Aroclor 1254	262274	290051	BA
Aroclor 1254	262274	290051	BA
Aroclor 1254	262274	290051	BA
Aroclor 1260	654057	694930	CO
Aroclor 1260	654057	694930	CO
Aroclor 1260	654057	694930	CO
Aroclor 1260	654057	694930	CO
Aroclor 1260	654057	694930	CO
Tetrachloro-m-xylene	10987755	11031969	BA
Decachlorobiphenyl	11200645	11200645	

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SAMPLE NO.

FD1-170829-01-GOSH-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 40158017019
Date Analyzed: 05/07/2018 19:08
Lab File ID: 050718.B\050718023.D
Initial wt/vol: 10.0003 Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSK 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)	29.0	J
11097-69-1	PCB-1254 (Aroclor 1254)	21.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	18.9	J
1336-36-3	PCB, Total	69.8	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718023.D
Lab Smp Id: 40158017019 Client Smp ID: FD1-170829-01-GOSH-
Inj Date : 07-MAY-2018 19:08
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017019,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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
1.047	27493	15130	0.550	0.06		
1.179	26651	28409	1.066	0.05		
1.228	39165	28298	0.723	0.08		
1.362	9915	8774	0.885	0.02		
1.409	12084	7807	0.646	0.02		
1.462	19733	16287	0.825	0.04		
1.732	19545	17162	0.878	0.04		
1.822	1454573	1481064	1.018	3.24		
2.002	11044	11615	1.052	0.02		
2.118	22055	15708	0.712	0.04		
2.189	34204	26090	0.763	0.07		
2.229	32225	36251	1.125	0.07		
2.256	30127	17387	0.577	0.06		
2.354	35448	36941	1.042	0.07		
2.379	57072	53365	0.935	0.12		
2.429	92152	72370	0.785	0.20		
2.474	93156	76837	0.825	0.20		
2.512	19754	16419	0.831	0.04		
2.550	11932564	12178603	1.021	27.24	$ 2 Tetrachloro-m-xylene	
2.616	27403	20756	0.757	0.06		
2.857	19217	20531	1.068	0.04		
2.930	28544	23110	0.810	0.06		
2.972	87772	69338	0.790	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.047	72651	64928	0.894	0.16	
3.064	89490	99700	1.114	0.19	
3.094	139484	143804	1.031	0.31	
3.259	423198	422563	0.998	0.94	
3.396	14080	16527	1.174	0.03	5 Aroclor 1016
3.684	13666	9332	0.683	0.03	
3.909	163383	97005	0.594	0.36	5 Aroclor 1016
4.079	37582	25823	0.687	0.08	5 Aroclor 1016
4.132	39923	22828	0.572	0.08	
4.298	135559	113670	0.839	0.30	
4.345	125322	115444	0.921	0.27	6 Aroclor 1248
4.375	112835	73532	0.652	0.25	
4.502	85029	73567	0.865	0.18	
4.537	52443	46857	0.893	0.11	
4.599	3977388	4264986	1.072	8.87	
4.630	131903	116387	0.882	0.29	6 Aroclor 1248
4.705	27132	18680	0.688	0.06	
4.825	30810	19642	0.638	0.06	
4.855	39982	31330	0.784	0.08	
4.898	176262	154990	0.879	0.39	6 Aroclor 1248
4.933	159633	144183	0.903	0.35	
4.963	424541	256620	0.604	0.94	6 Aroclor 1248
5.042	98413	55939	0.568	0.21	
5.089	20854	15844	0.760	0.04	
5.124	159301	148108	0.930	0.35	6 Aroclor 1248
5.144	50239	57778	1.150	0.11	
5.185	155416	110782	0.713	0.34	
5.247	298053	257967	0.866	0.66	7 Aroclor 1254
5.298	281378	216221	0.768	0.62	
5.401	173281	145402	0.839	0.38	
5.449	81076	64039	0.790	0.18	
5.493	143198	127860	0.893	0.31	7 Aroclor 1254
5.536	1943218	1898176	0.977	4.33	
5.595	366319	277840	0.758	0.81	7 Aroclor 1254
5.650	38301	21823	0.570	0.08	
5.691	82529	47115	0.571	0.18	
5.759	121227	97502	0.804	0.27	
5.795	69020	53064	0.769	0.15	
5.826	115391	71472	0.619	0.25	
5.876	620036	515998	0.832	1.38	
5.908	253786	205575	0.810	0.56	
5.989	73677	54718	0.743	0.16	
6.080	145433	128535	0.884	0.32	
6.112	258646	229696	0.888	0.57	7 Aroclor 1254
6.140	682633	594760	0.871	1.52	
6.202	39081	24441	0.625	0.08	
6.255	175202	100584	0.574	0.39	
6.328	370525	284444	0.768	0.82	
6.386	701523	596364	0.850	1.56	8 Aroclor 1260
6.419	100543	82230	0.818	0.22	
6.461	46942	30849	0.657	0.10	
6.517	88432	48689	0.551	0.19	
6.596	214065	179399	0.838	0.47	
6.623	135683	130383	0.961	0.30	
6.647	125893	86038	0.683	0.28	
6.694	19993	19684	0.985	0.04	
6.730	218251	141326	0.648	0.48	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.804	161666	109283	0.676	0.36	
6.845	164753	111555	0.677	0.36	
6.888	172376	111108	0.645	0.38	
6.926	133265	56229	0.422	0.29	
6.987	61949	36203	0.584	0.13	
7.029	274487	206881	0.754	0.61	
7.089	401784	320364	0.797	0.89	8 Aroclor 1260
7.175	135094	55078	0.408	0.30	
7.208	96632	50161	0.519	0.21	
7.267	141220	90451	0.640	0.31	
7.335	140878	122400	0.869	0.31	8 Aroclor 1260
7.368	108941	69176	0.635	0.24	
7.422	80489	45667	0.567	0.17	
7.477	59490	63689	1.071	0.13	
7.527	101200	80605	0.796	0.22	8 Aroclor 1260
7.566	106632	61728	0.579	0.23	
7.606	46170	33817	0.732	0.10	
7.636	35610	36995	1.039	0.07	
7.667	6276	8720	1.389	0.01	
7.695	22325	15090	0.676	0.04	
7.720	66899	33100	0.495	0.14	
7.782	64858	55514	0.856	0.14	
7.813	43890	34551	0.787	0.09	
7.849	30192	21370	0.708	0.06	
7.897	36348	24468	0.673	0.08	
7.960	69724	43892	0.630	0.15	
7.985	96991	68445	0.706	0.21	8 Aroclor 1260
8.039	55200	30095	0.545	0.12	
8.136	37562	30395	0.809	0.08	
8.220	52181	30070	0.576	0.11	
8.360	116561	100489	0.862	0.25	
8.403	23212	18054	0.778	0.05	
8.461	118697	65197	0.549	0.26	
8.534	41158	28349	0.689	0.09	
8.566	36740	28304	0.770	0.08	
8.596	10913	13368	1.225	0.02	
8.657	11745917	10517470	0.895	26.19	$ 12 Decachlorobiphenyl
8.726	42283	27310	0.646	0.09	
8.808	22550	13931	0.618	0.05	
8.934	16892	14576	0.863	0.03	
9.001	53270	31020	0.582	0.11	
9.254	402603	363629	0.903	0.89	
9.293	22012	16233	0.737	0.04	
9.526	72586	46862	0.646	0.16	
9.566	36173	29959	0.828	0.08	
	44838394	41103146		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718023.D
Lab Smp Id: 40158017019 Client Smp ID: FD1-170829-01-GOSH-
Inj Date : 07-MAY-2018 19:08
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017019,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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		
2.549	2.549	0.000	11932563	0.09907	50			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.345	4.343	0.002	125322	0.05254	26	0.00- 20.00	100.00(M)	CO
4.629	4.630	-0.001	131903	0.03105	16	0.00- 20.00	105.25	CO
4.897	4.898	-0.001	176262	0.08653	43	0.00- 20.00	140.65	CO
4.962	4.963	-0.001	424540	0.07751	39	0.00- 20.00	338.76	CO
5.123	5.123	0.000	159301	0.04211	21	0.00- 20.00	127.11	CO
Average of Peak Concentrations =					29			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	298052	0.05285	26	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	143197	0.03070	15	0.00- 20.00	48.04	BA
5.594	5.596	-0.002	366318	0.04278	21	0.00- 20.00	122.90	BA
6.111	6.113	-0.002	258646	0.04868	24	0.00- 20.00	86.78	BA
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					22			
8 Aroclor 1260					CAS #: 11096-82-5			
6.385	6.387	-0.002	701523	0.07008	35	0.00- 20.00	100.00(M)	BA
7.088	7.090	-0.002	401783	0.03414	17	0.00- 20.00	57.27	BA
7.335	7.338	-0.003	140878	0.02491	12	0.00- 20.00	20.08	BA
7.526	7.529	-0.003	101200	0.02960	15	0.00- 20.00	14.43	BA
7.985	7.987	-0.002	96990	0.03062	15	0.00- 20.00	13.83	BA
Average of Peak Concentrations =					19			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	11745916	0.08819	44			

QC Flag Legend

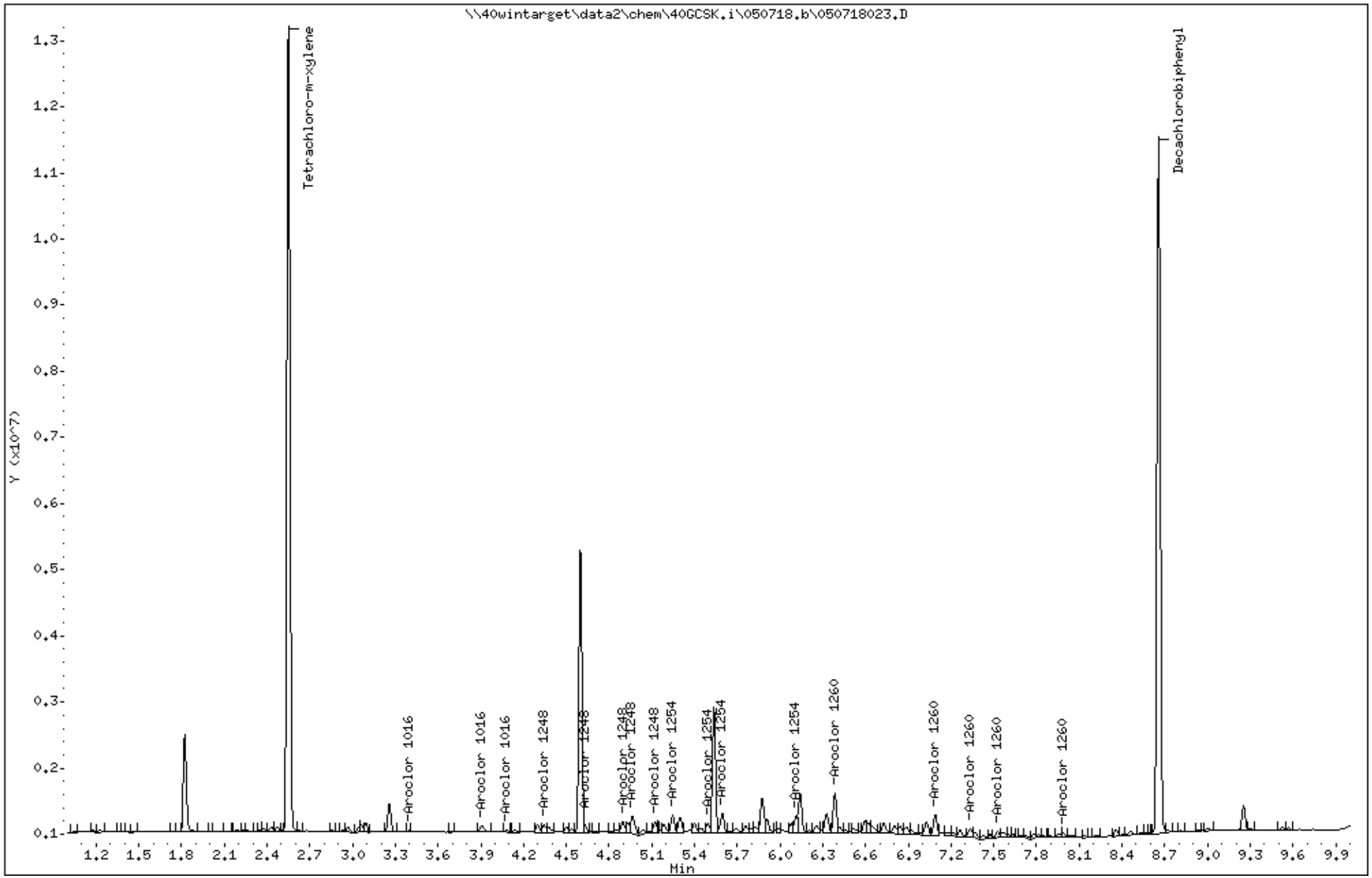
M - Compound response manually integrated.

Review Codes Legend

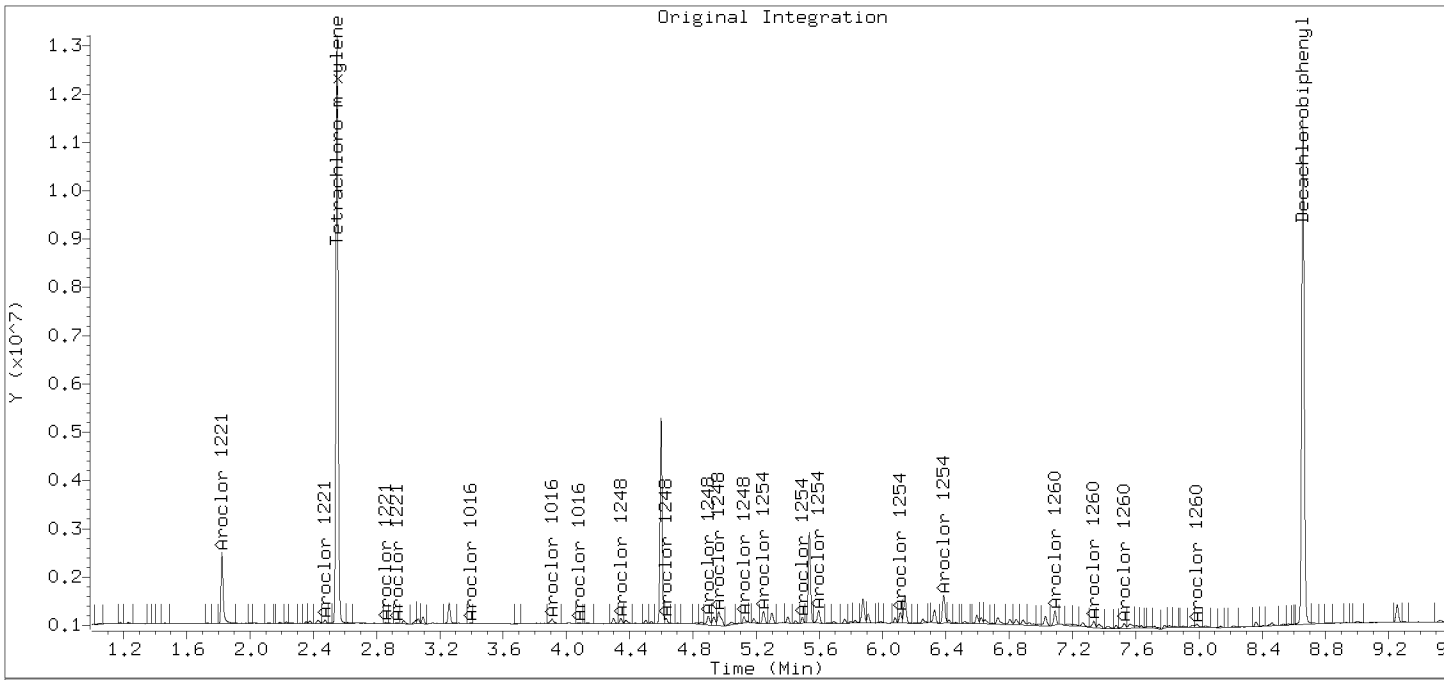
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

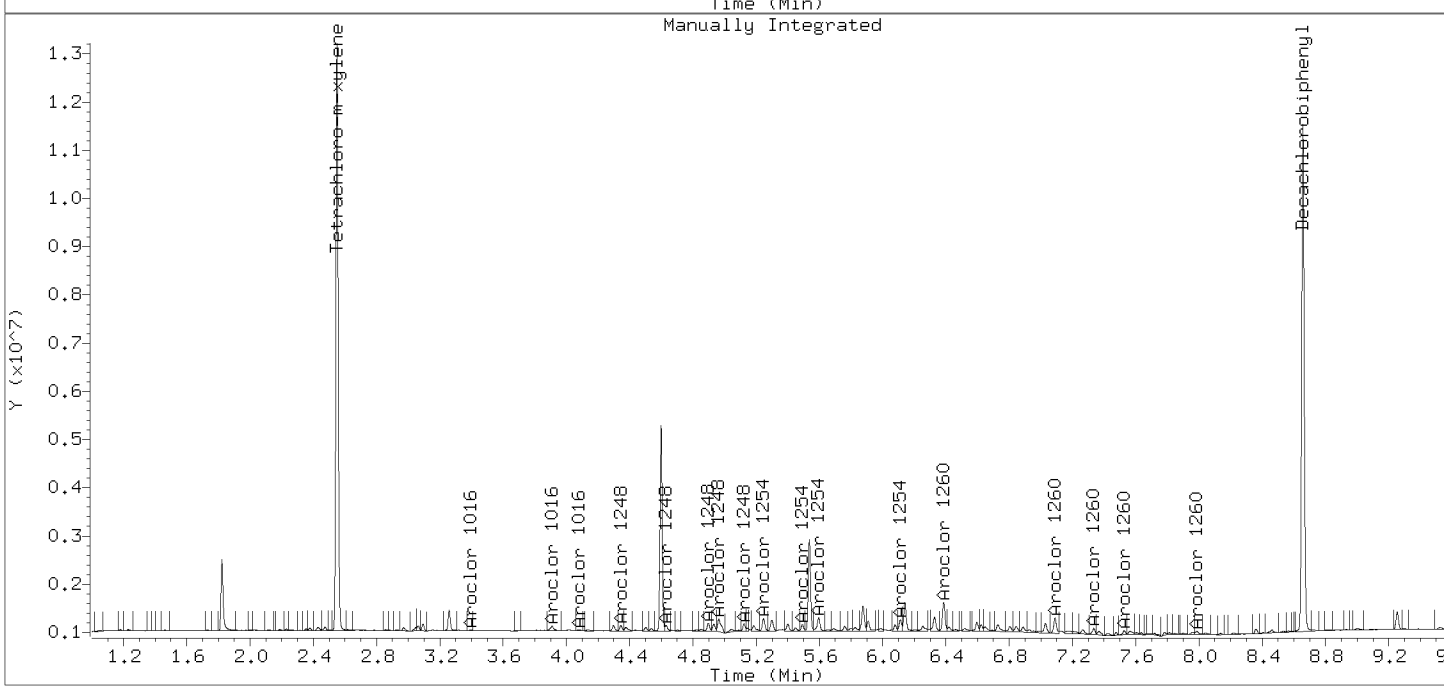
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718023.D
Date : 07-MAY-2018 19:08
Client ID: FD1-170829-01-GOSH-
Sample Info: 40158017019,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 19:08 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017019





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	1454572	0	
Aroclor 1221	1454572	0	
Aroclor 1221	1454572	0	
Aroclor 1221	1454572	0	
Aroclor 1221	1454572	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	106942	125322	CO
Aroclor 1248	106942	125322	CO
Aroclor 1248	106942	125322	CO
Aroclor 1248	106942	125322	CO
Aroclor 1248	106942	125322	CO
Aroclor 1254	269865	298052	BA
Aroclor 1254	269865	298052	BA
Aroclor 1254	269865	298052	BA
Aroclor 1254	269865	298052	BA
Aroclor 1254	269865	298052	BA
Aroclor 1260	657460	701523	BA
Aroclor 1260	657460	701523	BA
Aroclor 1260	657460	701523	BA
Aroclor 1260	657460	701523	BA
Aroclor 1260	657460	701523	BA
Tetrachloro-m-xylene	11932563	11932563	
Decachlorobiphenyl	11745916	11745916	

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SAMPLE NO.

FD1-170829-01-GOSH-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 04/30/2018 10:28
Lab Sample ID: 40158017020
Date Analyzed: 05/07/2018 19:23
Lab File ID: 050718.B\050718024.D
Initial wt/vol: 10.002 g Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	<11.4	U
12672-29-6	PCB-1248 (Aroclor 1248)	23.5	J
11097-69-1	PCB-1254 (Aroclor 1254)	22.2	J
11096-82-5	PCB-1260 (Aroclor 1260)	25.7	J
1336-36-3	PCB, Total	71.4	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718024.D
Lab Smp Id: 40158017020 Client Smp ID: FD1-170829-01-GOSH-
Inj Date : 07-MAY-2018 19:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017020,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.002	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.013	12738	14450	1.134	0.02		
1.047	37382	21309	0.570	0.07		
1.081	12651	12546	0.992	0.02		
1.178	24509	29164	1.190	0.05		
1.230	16859	14358	0.852	0.03		
1.462	18240	14758	0.809	0.03		
1.534	10445	10797	1.034	0.02		
1.732	21656	20030	0.925	0.04		
1.821	1687435	1854718	1.099	3.60		
2.004	10883	11753	1.080	0.02		
2.024	12888	12011	0.932	0.02		
2.116	13272	11810	0.890	0.02		
2.183	21185	17121	0.808	0.04		
2.230	28964	33399	1.153	0.06		
2.260	16719	14121	0.845	0.03		
2.354	38288	38169	0.997	0.08		
2.379	52951	53692	1.014	0.11		
2.429	70588	61526	0.872	0.15		
2.458	13405	24945	1.861	0.02		
2.474	95022	88375	0.930	0.20		
2.508	14886	13579	0.912	0.03		
2.550	12359034	12846091	1.039	27.04	$ 2 Tetrachloro-m-xylene	
2.619	22032	16476	0.748	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.677	16548	10788	0.652	0.03	
2.857	23092	20928	0.906	0.04	
2.927	30158	22070	0.732	0.06	
3.048	55010	50137	0.911	0.11	
3.063	102609	102262	0.997	0.21	
3.092	126376	129156	1.022	0.27	
3.258	659177	667273	1.012	1.40	
3.315	13064	10372	0.794	0.02	
3.396	18669	19871	1.064	0.03	5 Aroclor 1016
3.514	11931	9339	0.783	0.02	
3.909	145351	92743	0.638	0.31	5 Aroclor 1016
4.012	23456	16550	0.706	0.05	5 Aroclor 1016
4.077	27751	24543	0.884	0.05	5 Aroclor 1016
4.134	47184	36439	0.772	0.10	
4.297	113216	102450	0.905	0.24	
4.344	110947	106026	0.956	0.23	6 Aroclor 1248
4.377	97610	71590	0.733	0.20	
4.501	76237	70492	0.925	0.16	
4.537	40936	39032	0.953	0.08	
4.599	4680187	4954366	1.059	10.00	
4.630	119709	108644	0.908	0.25	6 Aroclor 1248
4.702	17379	14669	0.844	0.03	
4.821	21426	16201	0.756	0.04	
4.852	24180	20871	0.863	0.05	
4.898	118923	109237	0.919	0.25	6 Aroclor 1248
4.932	136881	128472	0.939	0.29	
4.963	383054	211052	0.551	0.81	6 Aroclor 1248
5.042	117814	64426	0.547	0.25	
5.088	22022	18420	0.836	0.04	
5.124	122342	108280	0.885	0.26	6 Aroclor 1248
5.144	35107	41355	1.178	0.07	
5.185	154537	117397	0.760	0.33	
5.246	310907	274930	0.884	0.66	7 Aroclor 1254
5.298	269350	226931	0.843	0.57	
5.400	153332	132568	0.865	0.32	
5.448	73396	63591	0.866	0.15	
5.492	149823	135036	0.901	0.32	7 Aroclor 1254
5.537	1368637	1322833	0.967	2.92	
5.596	353326	279405	0.791	0.75	7 Aroclor 1254
5.690	60499	40208	0.665	0.12	
5.761	116777	107189	0.918	0.24	
5.799	69718	53466	0.767	0.14	
5.827	113503	76741	0.676	0.24	
5.876	707174	584434	0.826	1.51	
5.909	190474	150042	0.788	0.40	
5.972	52612	40815	0.776	0.11	
5.990	72031	53969	0.749	0.15	
6.015	42152	35175	0.834	0.09	
6.078	203161	164315	0.809	0.43	
6.112	260028	222401	0.855	0.55	7 Aroclor 1254
6.141	863004	748433	0.867	1.84	
6.255	200197	112687	0.563	0.42	
6.329	174916	99985	0.572	0.37	
6.385	884361	761010	0.861	1.89	8 Aroclor 1260
6.420	111937	96791	0.865	0.23	
6.458	51168	31798	0.621	0.10	
6.518	103163	56465	0.547	0.22	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.570	19325	17657	0.914	0.04	
6.596	278212	247181	0.888	0.59	
6.623	166997	162783	0.975	0.35	
6.647	131339	112791	0.859	0.28	
6.693	25185	26345	1.046	0.05	
6.743	52329	34071	0.651	0.11	
6.804	181195	135846	0.750	0.38	
6.845	167568	131540	0.785	0.35	
6.888	182003	140934	0.774	0.38	
6.926	85533	57764	0.675	0.18	
7.029	260288	199367	0.766	0.55	
7.089	518884	434529	0.837	1.10	8 Aroclor 1260
7.188	131440	52897	0.402	0.28	
7.258	48649	35066	0.721	0.10	
7.336	203288	177598	0.874	0.43	8 Aroclor 1260
7.367	131825	88077	0.668	0.28	
7.424	72652	45430	0.625	0.15	
7.476	89187	93886	1.053	0.19	
7.527	143681	118335	0.824	0.30	8 Aroclor 1260
7.567	126480	70907	0.561	0.27	
7.605	80370	46167	0.574	0.17	
7.723	66868	37137	0.555	0.14	
7.781	84932	71097	0.837	0.18	
7.812	56675	45744	0.807	0.12	
7.847	62255	43535	0.699	0.13	
7.900	71668	38770	0.541	0.15	
7.958	87158	55534	0.637	0.18	
7.985	148210	107000	0.722	0.31	8 Aroclor 1260
8.040	94840	65648	0.692	0.20	
8.131	10441	8271	0.792	0.02	
8.223	14404	12554	0.872	0.03	
8.360	139652	119414	0.855	0.29	
8.404	22280	17812	0.799	0.04	
8.463	174900	103039	0.589	0.37	
8.534	60743	44543	0.733	0.12	
8.565	59490	44395	0.746	0.12	
8.657	12331937	10583425	0.858	26.36	$ 12 Decachlorobiphenyl
8.726	59158	45012	0.761	0.12	
8.805	32829	23766	0.724	0.07	
8.927	23165	17226	0.744	0.04	
8.999	73158	43097	0.589	0.15	
9.135	22310	13488	0.605	0.04	
9.254	611340	563927	0.922	1.30	
9.525	88421	58812	0.665	0.18	
9.565	26519	22544	0.850	0.05	
	46780343	43236828		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718024.D
Lab Smp Id: 40158017020 Client Smp ID: FD1-170829-01-GOSH-
Inj Date : 07-MAY-2018 19:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40158017020,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.002	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	12359034	0.10261	51			
3 Aroclor 1242					CAS #: 53469-21-9			
Peaks not detected for Quant. or Qual. signal(s).								
4 Aroclor 1232					CAS #: 1114-16-5			
Peaks not detected for Quant. or Qual. signal(s).								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.343	4.343	0.000	110947	0.04651	23	0.00- 20.00	100.00(M)	CO
4.629	4.630	-0.001	119709	0.02818	14	0.00- 20.00	107.90	CO
4.897	4.898	-0.001	118922	0.05838	29	0.00- 20.00	107.19	CO
4.962	4.963	-0.001	383054	0.06993	35	0.00- 20.00	345.26	CO
5.124	5.123	0.001	122342	0.03234	16	0.00- 20.00	110.27	CO
Average of Peak Concentrations =					24			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	310907	0.05513	28	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	149823	0.03212	16	0.00- 20.00	48.19	BA
5.595	5.596	-0.001	353326	0.04127	21	0.00- 20.00	113.64	BA
6.111	6.113	-0.002	260028	0.04894	24	0.00- 20.00	83.64	BA
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					22			
8 Aroclor 1260					CAS #: 11096-82-5			
6.384	6.387	-0.003	884360	0.08835	44	0.00- 20.00	100.00(M)	BA
7.088	7.090	-0.002	518884	0.04409	22	0.00- 20.00	58.67	BA
7.336	7.338	-0.002	203288	0.03594	18	0.00- 20.00	22.99	BA
7.527	7.529	-0.002	143680	0.04203	21	0.00- 20.00	16.25	BA
7.985	7.987	-0.002	148210	0.04680	23	0.00- 20.00	16.76	BA
Average of Peak Concentrations =					26			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	12331936	0.09259	46			

QC Flag Legend

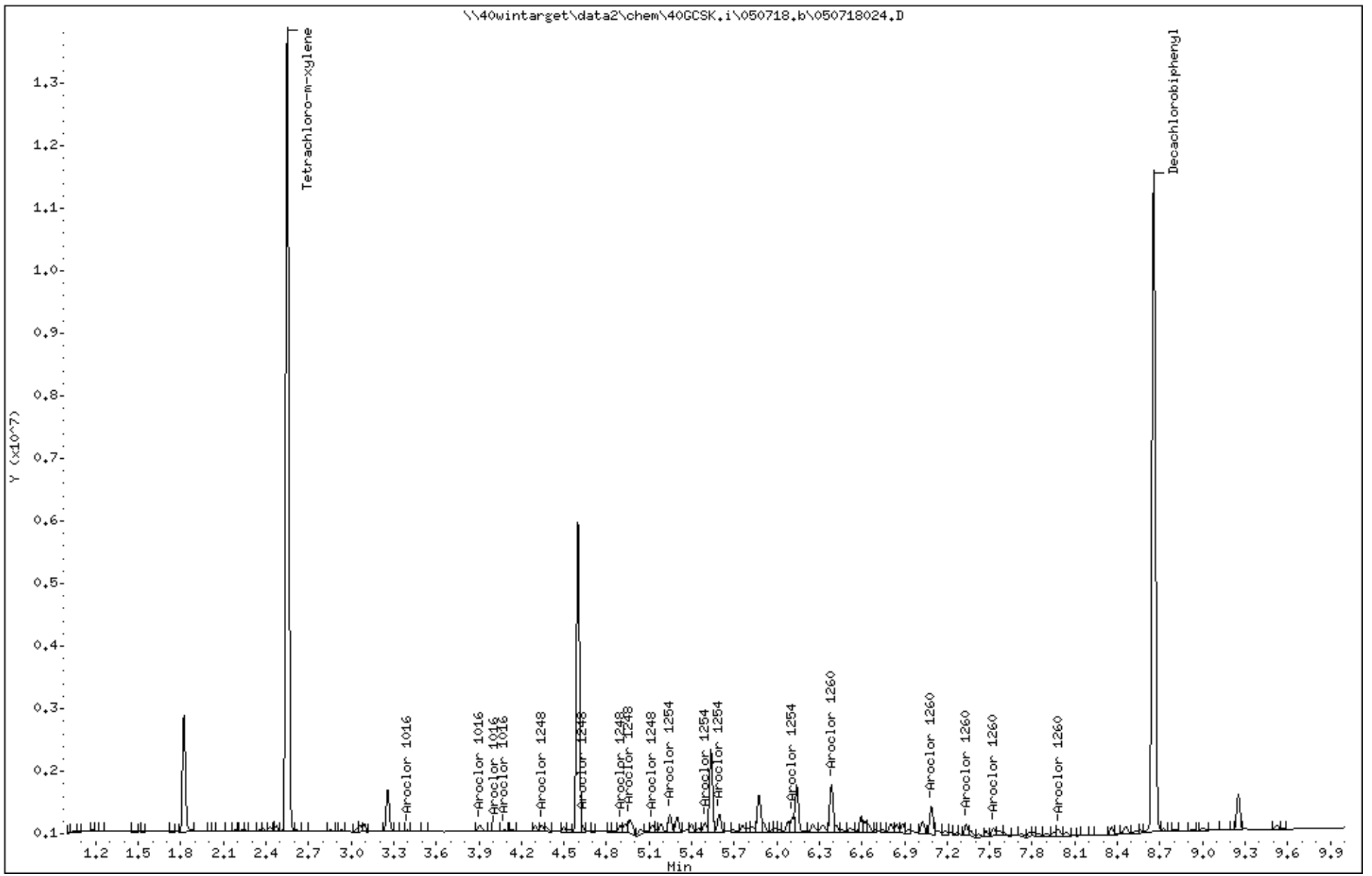
M - Compound response manually integrated.

Review Codes Legend

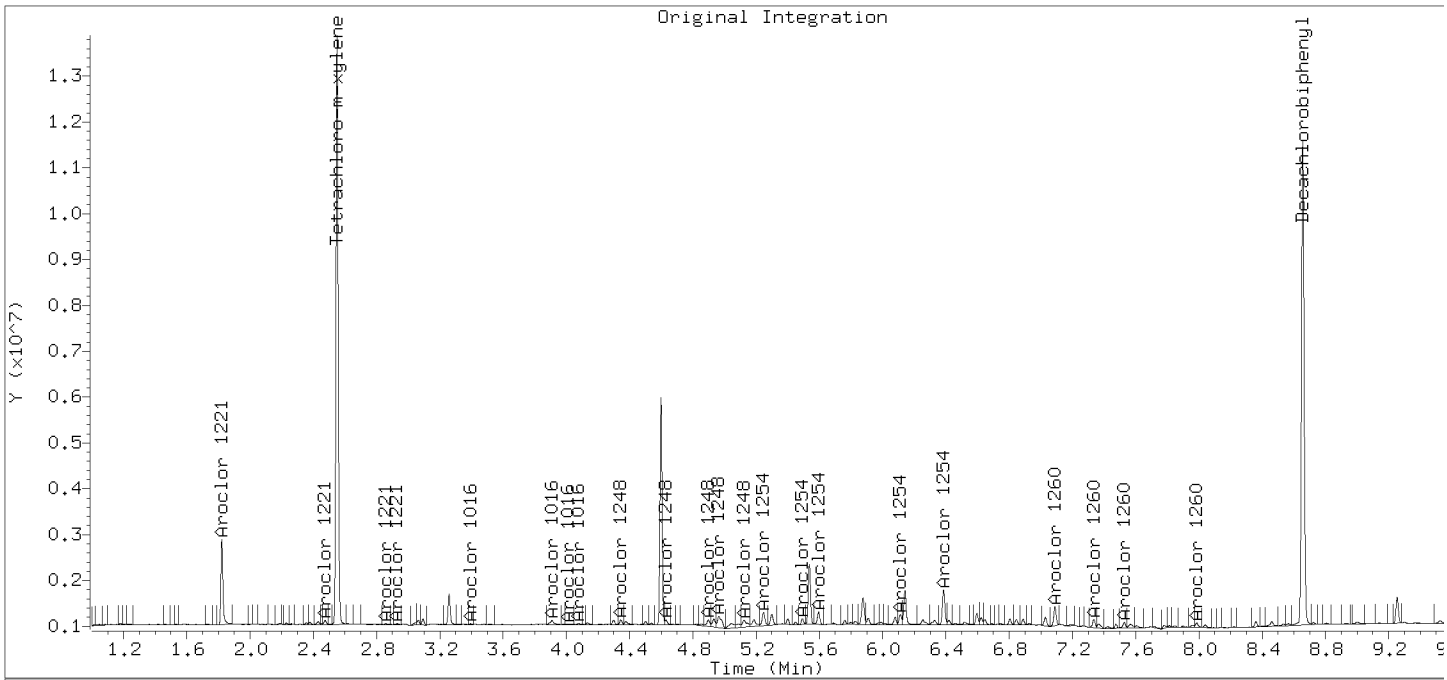
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

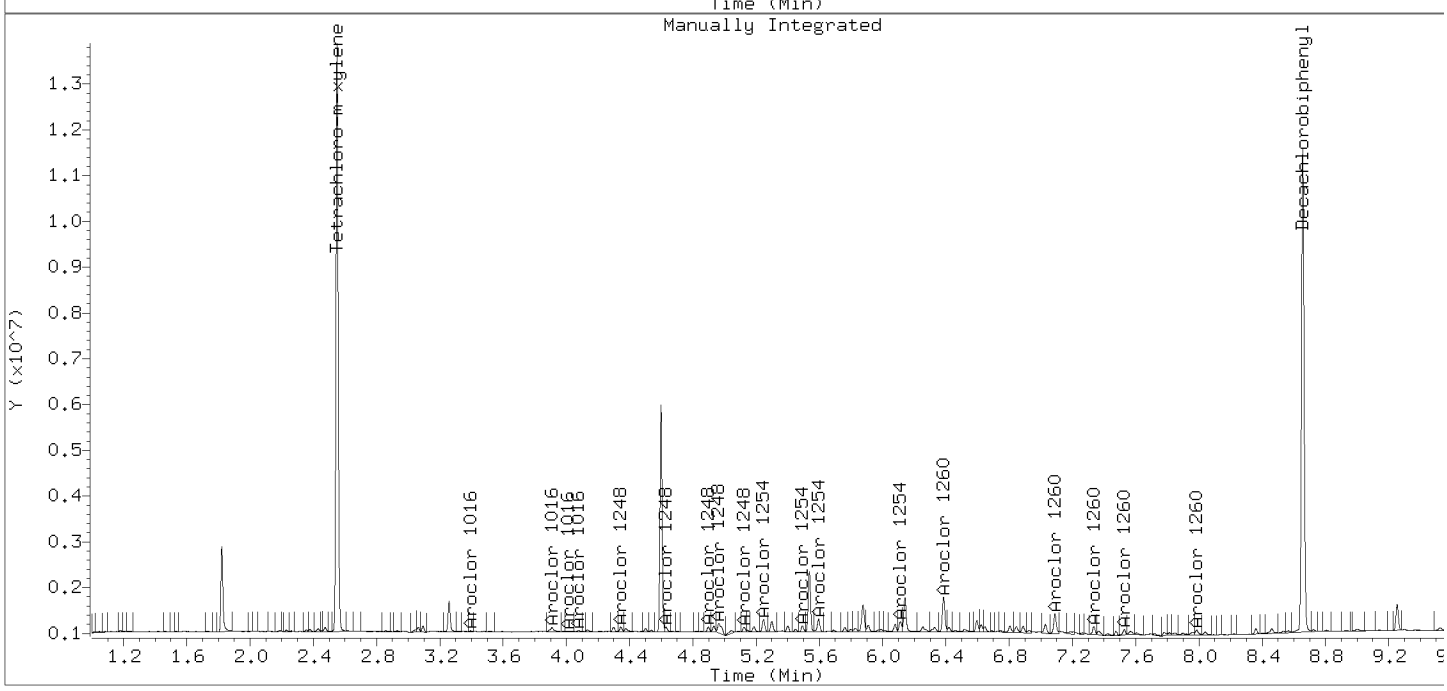
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718024.D
Date : 07-MAY-2018 19:23
Client ID: FD1-170829-01-GOSH-
Sample Info: 40158017020,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718024.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 19:23 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40158017020





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	1687434	0	
Aroclor 1221	1687434	0	
Aroclor 1221	1687434	0	
Aroclor 1221	1687434	0	
Aroclor 1221	1687434	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	98130	110947	CO
Aroclor 1248	98130	110947	CO
Aroclor 1248	98130	110947	CO
Aroclor 1248	98130	110947	CO
Aroclor 1248	98130	110947	CO
Aroclor 1254	346780	310907	BA
Aroclor 1254	346780	310907	BA
Aroclor 1254	346780	310907	BA
Aroclor 1254	346780	310907	BA
Aroclor 1254	346780	310907	BA
Aroclor 1260	869547	884360	BA
Aroclor 1260	869547	884360	BA
Aroclor 1260	869547	884360	BA
Aroclor 1260	869547	884360	BA
Aroclor 1260	869547	884360	BA
Tetrachloro-m-xylene	12359034	12359034	
Decachlorobiphenyl	12331936	12331936	

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PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSK GC Column: Col 1 SDG No.: 40158017

Calibration Date(s): 05/03/2018 05/03/2018 Calibration Time(s): 10:54 18:26

LAB FILE ID

CAL1A =	050318.B\050318057.D	CAL1B =	050318.B\050318021.D	CAL1C =	050318.B\050318045.D
CAL1D =	050318.B\050318033.D	CAL1F =	050318.B\050318009.D	CAL2A =	050318.B\050318059.D
CAL2B =	050318.B\050318023.D	CAL2C =	050318.B\050318047.D	CAL2D =	050318.B\050318035.D
CAL2F =	050318.B\050318011.D	CAL3A =	050318.B\050318061.D	CAL3B =	050318.B\050318025.D
CAL3C =	050318.B\050318049.D	CAL3D =	050318.B\050318037.D	CAL3F =	050318.B\050318013.D
CAL4A =	050318.B\050318063.D	CAL4B =	050318.B\050318027.D	CAL4C =	050318.B\050318051.D
CAL4D =	050318.B\050318039.D	CAL4F =	050318.B\050318015.D	CAL5A =	050318.B\050318065.D
CAL5B =	050318.B\050318029.D	CAL5C =	050318.B\050318053.D	CAL5D =	050318.B\050318041.D
CAL5F =	050318.B\050318017.D				

COMPOUND	PEAK	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5
Aroclor 1016	1	Averaged	3226830.00	3214890.00	3099390.00	2936223.75	2816368.00
Aroclor 1016	2	Averaged	3426870.00	3282010.00	3196364.00	3025390.00	2923969.00
Aroclor 1016	3	Averaged	9792050.00	9801085.00	9416772.00	9088905.00	8886004.00
Aroclor 1016	4	Averaged	4283190.00	4182570.00	4056290.00	3840508.75	3741518.00
Aroclor 1016	5	Averaged	2846930.00	2773990.00	2750986.00	2588326.25	2529476.00
Aroclor 1221	1	Averaged	1072930.00	1056575.00	963810.000	945701.250	912984.000
Aroclor 1221	2	Averaged	609940.000	541470.000	512828.000	492945.000	478736.000
Aroclor 1221	3	Averaged	1451360.00	1429315.00	1349672.00	1372628.75	1331974.00
Aroclor 1221	4	Averaged	1127220.00	1143945.00	1067226.00	1087150.00	1092035.00
Aroclor 1221	5	Averaged	3524300.00	3517660.00	3282850.00	3232473.75	3158162.00
Aroclor 1242	1	Averaged	2713170.00	2557185.00	2374006.00	2234975.00	2222470.00
Aroclor 1242	2	Averaged	2798950.00	2528770.00	2413564.00	2291745.00	2273072.00
Aroclor 1242	3	Averaged	7951690.00	7634755.00	7053656.00	6807721.25	6829835.00
Aroclor 1242	4	Averaged	3482340.00	3295345.00	3030816.00	2902472.50	2870213.00
Aroclor 1242	5	Averaged	2436090.00	2121480.00	2023398.00	1945076.25	1940441.00
Aroclor 1248	1	Averaged	2456240.00	2537550.00	2411430.00	2248226.25	2273295.00
Aroclor 1248	2	Averaged	4291080.00	4562680.00	4325300.00	3986956.25	4071185.00
Aroclor 1248	3	Averaged	1996230.00	2105285.00	2090798.00	1974668.75	2018218.00
Aroclor 1248	4	Averaged	5642540.00	5832570.00	5524508.00	5151295.00	5236055.00
Aroclor 1248	5	Averaged	3753500.00	3954320.00	3845468.00	3636438.75	3726636.00
Aroclor 1254	1	Averaged	6052220.00	6024570.00	5641990.00	5331835.00	5147482.00
Aroclor 1254	2	Averaged	4837540.00	4873840.00	4718368.00	4503321.25	4385746.00
Aroclor 1254	3	Averaged	9088090.00	9067030.00	8515712.00	8188597.50	7950560.00
Aroclor 1254	4	Averaged	5250130.00	5515500.00	5430814.00	5252518.75	5115408.00
Aroclor 1254	5	Averaged	7569040.00	7663545.00	7379306.00	7075227.50	6918346.00
Aroclor 1260	1	Averaged	10453040.0	10301025.0	10038194.0	9713460.00	9544191.00
Aroclor 1260	2	Averaged	12183150.0	12067250.0	11801074.0	11484917.5	11310002.0
Aroclor 1260	3	Averaged	5691220.00	5822245.00	5709174.00	5574191.25	5484640.00
Aroclor 1260	4	Averaged	3569510.00	3576420.00	3443486.00	3276160.00	3228577.00

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: 40GCSK GC Column: Col 1 SDG No.: 40158017

Calibration Date(s): 05/03/2018 05/03/2018 Calibration Time(s): 10:54 18:26

LAB FILE ID

CAL1A =	050318.B\050318057.D	CAL1B =	050318.B\050318021.D	CAL1C =	050318.B\050318045.D
CAL1D =	050318.B\050318033.D	CAL1F =	050318.B\050318009.D	CAL2A =	050318.B\050318059.D
CAL2B =	050318.B\050318023.D	CAL2C =	050318.B\050318047.D	CAL2D =	050318.B\050318035.D
CAL2F =	050318.B\050318011.D	CAL3A =	050318.B\050318061.D	CAL3B =	050318.B\050318025.D
CAL3C =	050318.B\050318049.D	CAL3D =	050318.B\050318037.D	CAL3F =	050318.B\050318013.D
CAL4A =	050318.B\050318063.D	CAL4B =	050318.B\050318027.D	CAL4C =	050318.B\050318051.D
CAL4D =	050318.B\050318039.D	CAL4F =	050318.B\050318015.D	CAL5A =	050318.B\050318065.D
CAL5B =	050318.B\050318029.D	CAL5C =	050318.B\050318053.D	CAL5D =	050318.B\050318041.D
CAL5F =	050318.B\050318017.D				

COMPOUND	PEAK	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5
Aroclor 1260	5	Averaged	3302230.00	3276995.00	3205912.00	3056618.75	2993726.00
Decachlorobiphenyl (S)		Averaged	147518500.	136951500.	132501260.	125984890.	122996913.
Tetrachloro-m-xylene		Averaged	122740900.	118987500.	122013680.	119559600.	118904826.

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: 40GCSK GC Column: Col 1 SDG No.: 40158017

Calibration Date(s): 05/03/2018 05/03/2018 Calibration Time(s): 10:54 18:26

LAB FILE ID

CAL1A =	050318.B\050318057.D	CAL1B =	050318.B\050318021.D	CAL1C =	050318.B\050318045.D
CAL1D =	050318.B\050318033.D	CAL1F =	050318.B\050318009.D	CAL2A =	050318.B\050318059.D
CAL2B =	050318.B\050318023.D	CAL2C =	050318.B\050318047.D	CAL2D =	050318.B\050318035.D
CAL2F =	050318.B\050318011.D	CAL3A =	050318.B\050318061.D	CAL3B =	050318.B\050318025.D
CAL3C =	050318.B\050318049.D	CAL3D =	050318.B\050318037.D	CAL3F =	050318.B\050318013.D
CAL4A =	050318.B\050318063.D	CAL4B =	050318.B\050318027.D	CAL4C =	050318.B\050318051.D
CAL4D =	050318.B\050318039.D	CAL4F =	050318.B\050318015.D	CAL5A =	050318.B\050318065.D
CAL5B =	050318.B\050318029.D	CAL5C =	050318.B\050318053.D	CAL5D =	050318.B\050318041.D
CAL5F =	050318.B\050318017.D				

COMPOUND	PEAK	CURVE TYPE	%RSD	R2	A1	A2	A3
Aroclor 1016	1	Averaged	5.84			3058740.35	
Aroclor 1016	2	Averaged	6.32			3170920.60	
Aroclor 1016	3	Averaged	4.37			9396963.20	
Aroclor 1016	4	Averaged	5.65			4020815.35	
Aroclor 1016	5	Averaged	4.94			2697941.65	
Aroclor 1221	1	Averaged	7.11			990400.05	
Aroclor 1221	2	Averaged	9.84			527183.80	
Aroclor 1221	3	Averaged	3.70			1386989.95	
Aroclor 1221	4	Averaged	2.83			1103515.20	
Aroclor 1221	5	Averaged	5.03			3343089.15	
Aroclor 1242	1	Averaged	8.76			2420361.20	
Aroclor 1242	2	Averaged	8.73			2461220.20	
Aroclor 1242	3	Averaged	7.06			7255531.45	
Aroclor 1242	4	Averaged	8.48			3116237.30	
Aroclor 1242	5	Averaged	9.80			2093297.05	
Aroclor 1248	1	Averaged	5.14			2385348.25	
Aroclor 1248	2	Averaged	5.34			4247440.25	
Aroclor 1248	3	Averaged	2.84			2037039.95	
Aroclor 1248	4	Averaged	5.16			5477393.60	
Aroclor 1248	5	Averaged	3.20			3783272.55	
Aroclor 1254	1	Averaged	7.17			5639619.40	
Aroclor 1254	2	Averaged	4.55			4663763.05	
Aroclor 1254	3	Averaged	5.97			8561997.90	
Aroclor 1254	4	Averaged	2.99			5312874.15	
Aroclor 1254	5	Averaged	4.34			7321092.90	
Aroclor 1260	1	Averaged	3.82			10009982.00	
Aroclor 1260	2	Averaged	3.15			11769278.70	
Aroclor 1260	3	Averaged	2.30			5656294.05	
Aroclor 1260	4	Averaged	4.73			3418830.60	

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: 40GCSK GC Column: Col 1 SDG No.: 40158017

Calibration Date(s): 05/03/2018 05/03/2018 Calibration Time(s): 10:54 18:26

LAB FILE ID

CAL1A =	050318.B\050318057.D	CAL1B =	050318.B\050318021.D	CAL1C =	050318.B\050318045.D
CAL1D =	050318.B\050318033.D	CAL1F =	050318.B\050318009.D	CAL2A =	050318.B\050318059.D
CAL2B =	050318.B\050318023.D	CAL2C =	050318.B\050318047.D	CAL2D =	050318.B\050318035.D
CAL2F =	050318.B\050318011.D	CAL3A =	050318.B\050318061.D	CAL3B =	050318.B\050318025.D
CAL3C =	050318.B\050318049.D	CAL3D =	050318.B\050318037.D	CAL3F =	050318.B\050318013.D
CAL4A =	050318.B\050318063.D	CAL4B =	050318.B\050318027.D	CAL4C =	050318.B\050318051.D
CAL4D =	050318.B\050318039.D	CAL4F =	050318.B\050318015.D	CAL5A =	050318.B\050318065.D
CAL5B =	050318.B\050318029.D	CAL5C =	050318.B\050318053.D	CAL5D =	050318.B\050318041.D
CAL5F =	050318.B\050318017.D				

COMPOUND	PEAK	CURVE TYPE	%RSD	R2	A1	A2	A3
Aroclor 1260	5	Averaged	4.29			3167096.35	
Decachlorobiphenyl (S)		Averaged	7.27			133190612.6	
Tetrachloro-m-xylene		Averaged	1.49			120441301.3	

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: 40GCSK GC Column: Col 1 SDG No.: 40158017

Calibration Date(s): 05/03/2018 05/03/2018 Calibration Time(s): 10:54 18:26

LAB FILE ID

CAL1A =	050318.B\050318057.D	CAL1B =	050318.B\050318021.D	CAL1C =	050318.B\050318045.D
CAL1D =	050318.B\050318033.D	CAL1F =	050318.B\050318009.D	CAL2A =	050318.B\050318059.D
CAL2B =	050318.B\050318023.D	CAL2C =	050318.B\050318047.D	CAL2D =	050318.B\050318035.D
CAL2F =	050318.B\050318011.D	CAL3A =	050318.B\050318061.D	CAL3B =	050318.B\050318025.D
CAL3C =	050318.B\050318049.D	CAL3D =	050318.B\050318037.D	CAL3F =	050318.B\050318013.D
CAL4A =	050318.B\050318063.D	CAL4B =	050318.B\050318027.D	CAL4C =	050318.B\050318051.D
CAL4D =	050318.B\050318039.D	CAL4F =	050318.B\050318015.D	CAL5A =	050318.B\050318065.D
CAL5B =	050318.B\050318029.D	CAL5C =	050318.B\050318053.D	CAL5D =	050318.B\050318041.D
CAL5F =	050318.B\050318017.D				

COMPOUND	PEAK	CAL1	CAL2	CAL3	CAL4	CAL5	RT	RT WINDOW	
								FROM	TO
Aroclor 1016	1	3.396	3.395	3.394	3.395	3.395	3.395	3.361	3.429
Aroclor 1016	2	3.592	3.592	3.593	3.593	3.593	3.592	3.558	3.626
Aroclor 1016	3	3.91	3.909	3.908	3.908	3.908	3.909	3.875	3.943
Aroclor 1016	4	4.012	4.012	4.012	4.011	4.011	4.011	3.977	4.045
Aroclor 1016	5	4.079	4.077	4.077	4.077	4.078	4.078	4.044	4.112
Aroclor 1221	1	1.854	1.854	1.854	1.853	1.853	1.853	1.819	1.887
Aroclor 1221	2	2.472	2.473	2.471	2.471	2.471	2.471	2.437	2.505
Aroclor 1221	3	2.759	2.759	2.758	2.758	2.758	2.758	2.724	2.792
Aroclor 1221	4	2.861	2.861	2.861	2.86	2.86	2.86	2.826	2.894
Aroclor 1221	5	2.924	2.924	2.924	2.923	2.924	2.923	2.889	2.957
Aroclor 1242	1	3.395	3.395	3.395	3.395	3.395	3.396	3.362	3.43
Aroclor 1242	2	3.593	3.593	3.593	3.593	3.593	3.592	3.558	3.626
Aroclor 1242	3	3.908	3.909	3.908	3.908	3.908	3.909	3.875	3.943
Aroclor 1242	4	4.012	4.012	4.012	4.011	4.011	4.011	3.977	4.045
Aroclor 1242	5	4.078	4.079	4.077	4.077	4.077	4.078	4.044	4.112
Aroclor 1248	1	4.344	4.344	4.344	4.343	4.344	4.343	4.309	4.377
Aroclor 1248	2	4.63	4.63	4.631	4.63	4.63	4.63	4.596	4.664
Aroclor 1248	3	4.898	4.899	4.898	4.898	4.897	4.898	4.864	4.932
Aroclor 1248	4	4.964	4.964	4.964	4.964	4.963	4.963	4.929	4.997
Aroclor 1248	5	5.124	5.124	5.123	5.123	5.123	5.123	5.089	5.157
Aroclor 1254	1	5.248	5.247	5.247	5.247	5.247	5.248	5.214	5.282
Aroclor 1254	2	5.493	5.494	5.493	5.493	5.493	5.492	5.458	5.526
Aroclor 1254	3	5.596	5.595	5.596	5.596	5.595	5.596	5.562	5.63
Aroclor 1254	4	6.114	6.115	6.114	6.113	6.114	6.113	6.079	6.147
Aroclor 1254	5	6.386	6.386	6.385	6.386	6.386	6.387	6.353	6.421
Aroclor 1260	1	6.387	6.386	6.386	6.387	6.386	6.387	6.353	6.421
Aroclor 1260	2	7.09	7.09	7.09	7.091	7.09	7.09	7.056	7.124
Aroclor 1260	3	7.338	7.338	7.338	7.338	7.338	7.338	7.304	7.372

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: 40GCSK GC Column: Col 1 SDG No.: 40158017

Calibration Date(s): 05/03/2018 05/03/2018 Calibration Time(s): 10:54 18:26

LAB FILE ID

CAL1A =	050318.B\050318057.D	CAL1B =	050318.B\050318021.D	CAL1C =	050318.B\050318045.D
CAL1D =	050318.B\050318033.D	CAL1F =	050318.B\050318009.D	CAL2A =	050318.B\050318059.D
CAL2B =	050318.B\050318023.D	CAL2C =	050318.B\050318047.D	CAL2D =	050318.B\050318035.D
CAL2F =	050318.B\050318011.D	CAL3A =	050318.B\050318061.D	CAL3B =	050318.B\050318025.D
CAL3C =	050318.B\050318049.D	CAL3D =	050318.B\050318037.D	CAL3F =	050318.B\050318013.D
CAL4A =	050318.B\050318063.D	CAL4B =	050318.B\050318027.D	CAL4C =	050318.B\050318051.D
CAL4D =	050318.B\050318039.D	CAL4F =	050318.B\050318015.D	CAL5A =	050318.B\050318065.D
CAL5B =	050318.B\050318029.D	CAL5C =	050318.B\050318053.D	CAL5D =	050318.B\050318041.D
CAL5F =	050318.B\050318017.D				

COMPOUND	PEAK	CAL1	CAL2	CAL3	CAL4	CAL5	RT	RT WINDOW	
								FROM	TO
Aroclor 1260	4	7.529	7.528	7.529	7.528	7.528	7.529	7.495	7.563
Aroclor 1260	5	7.987	7.986	7.986	7.986	7.986	7.987	7.953	8.021
Decachlorobiphenyl (S)		8.657	8.656	8.657	8.658	8.657	8.657	8.623	8.691
Tetrachloro-m-xylene		2.549	2.548	2.549	2.549	2.549	2.549	2.515	2.583

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: 40GCSK GC Column: Col 1 SDG No.: 40158017

Calibration Date(s): 05/03/2018 Calibration Time(s): 10:38

LAB FILE ID

CAL3S = 050318.B\050318007.D

COMPOUND	AMOUNT	PEAK	RT	RT WINDOW		RESPONSE FACTOR
				FROM	TO	
Aroclor 1232	.5	1	2.923	2.888	2.956	2694578.00
Aroclor 1232	.5	2	3.592	3.558	3.626	1418110.00
Aroclor 1232	.5	3	3.908	3.874	3.942	4136332.00
Aroclor 1232	.5	4	4.011	3.977	4.045	1788600.00
Aroclor 1232	.5	5	4.077	4.044	4.112	1171600.00

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\40GCSK.i\050318.b\050318007.D
Lab Smp Id: 1232-CAL3S Client Smp ID: 1232-CAL3S
Inj Date : 03-MAY-2018 10:38
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17762,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 7 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
1.203	21781	21004	0.964	0.07		
1.463	36240	36092	0.996	0.12		
1.577	15218	17270	1.135	0.05		
1.731	27375	19952	0.729	0.09		
1.854	287017	275656	0.960	0.99		
2.055	20541	13934	0.678	0.07		
2.258	82536	71936	0.872	0.28		
2.470	189690	148614	0.783	0.65		
2.550	5813078	5747976	0.989	20.07		
2.691	9678	8506	0.879	0.03		
2.759	439086	342474	0.780	1.51		
2.860	410100	382186	0.932	1.41		
2.923	1347290	1173674	0.871	4.65	4 Aroclor 1232	BA
3.091	14407	10282	0.714	0.04		
3.130	85254	77482	0.909	0.29		
3.359	65038	51273	0.788	0.22		
3.395	755897	677405	0.896	2.61		
3.421	462251	400030	0.865	1.59		
3.514	123741	106543	0.861	0.42		
3.593	709055	511569	0.721	2.44	4 Aroclor 1232	BA
3.690	42450	39644	0.934	0.14		
3.777	22903	22644	0.989	0.07		
3.813	177435	173705	0.979	0.61		
3.839	137753	115530	0.839	0.47		
3.908	2068167	1164086	0.563	7.14	4 Aroclor 1232	BA
4.012	894300	722554	0.808	3.08	4 Aroclor 1232	BA
4.078	585801	515499	0.880	2.02	4 Aroclor 1232	BA
4.142	172613	141694	0.821	0.59		
4.221	66165	54816	0.828	0.22		
4.298	421274	396579	0.941	1.45		
4.344	412193	388140	0.942	1.42		
4.377	176300	174820	0.992	0.60		
4.393	217050	197713	0.911	0.74		
4.456	21313	14725	0.691	0.07		
4.501	559437	531535	0.950	1.93		
4.537	500359	345797	0.691	1.72		
4.631	754604	676980	0.897	2.60		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.704	180496	157437	0.872	0.62	
4.812	38757	31451	0.811	0.13	
4.853	43219	36297	0.840	0.14	
4.899	330114	306995	0.930	1.13	
4.934	596494	557193	0.934	2.05	
4.965	801978	578979	0.722	2.76	
5.043	94089	63302	0.673	0.32	
5.124	655151	579269	0.884	2.26	
5.185	135082	96508	0.714	0.46	
5.248	143904	122480	0.851	0.49	
5.298	107134	87156	0.814	0.36	
5.394	25919	21282	0.821	0.08	
5.449	92487	74463	0.805	0.31	
5.493	146870	119882	0.816	0.50	
5.533	94926	78523	0.827	0.32	
5.598	239605	182221	0.761	0.82	
5.693	73514	62843	0.855	0.25	
5.762	21375	15944	0.746	0.07	
5.799	14460	14452	0.999	0.04	
5.827	22197	16378	0.738	0.07	
5.879	165227	122715	0.743	0.57	
5.974	25874	15849	0.613	0.08	
6.114	129977	113570	0.874	0.44	
6.142	46077	35680	0.774	0.15	
6.258	14585	14837	1.017	0.05	
6.282	18439	14553	0.789	0.06	
6.388	45052	37597	0.835	0.15	
6.594	12882	11414	0.886	0.04	
6.646	9804	9441	0.963	0.03	
6.805	11496	13129	1.142	0.03	
7.091	27018	23314	0.863	0.09	
7.338	11666	12282	1.053	0.04	
7.815	16928	18240	1.078	0.05	
7.839	9787	9742	0.995	0.03	
8.363	56875	47051	0.827	0.19	
8.441	10437	9998	0.958	0.03	
8.657	6328903	5317233	0.840	22.27	
9.001	15882	11528	0.726	0.05	
	28960069	24811547		100.000	

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318007.D
Lab Smp Id: 1232-CAL3S Client Smp ID: 1232-CAL3S
Inj Date : 03-MAY-2018 10:38
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17762,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 7 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			
2.923	2.922	0.001	1347289	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.592	3.592	0.000	709055	0.50000	0.50	0.00- 20.00	52.63	BA
3.908	3.908	0.000	2068166	0.50000	0.50	0.00- 20.00	153.51	BA
4.011	4.011	0.000	894300	0.50000	0.50	0.00- 20.00	66.38	BA
4.077	4.078	-0.001	585800	0.50000	0.50	0.00- 20.00	43.48	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\40GCSK.i\050318.b\050318007.D

Date : 03-MAY-2018 10:38

Client ID: 1232-CAL3S

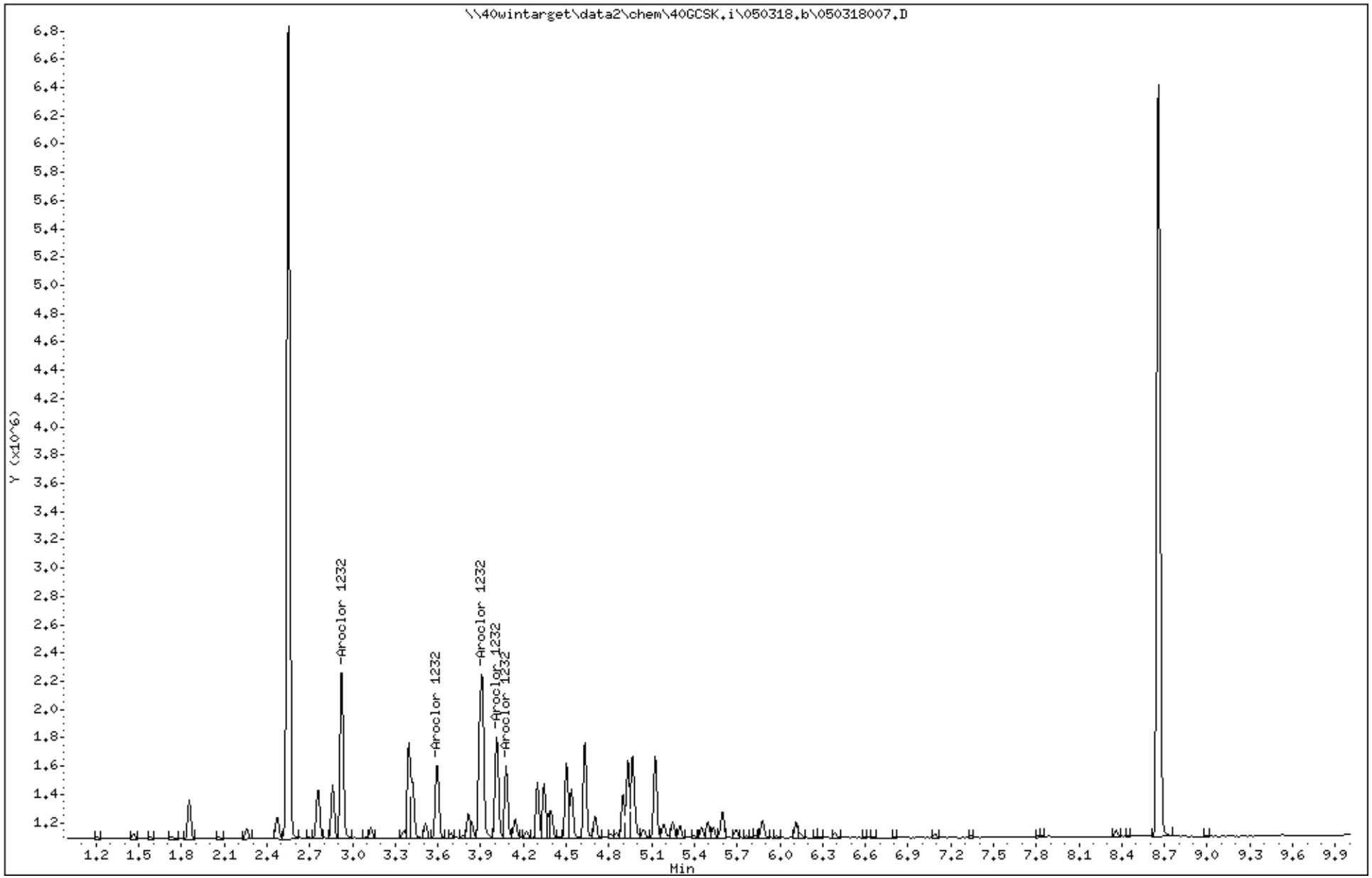
Instrument: 40GCSK.i

Sample Info: 1232-CAL3S, 185539:1

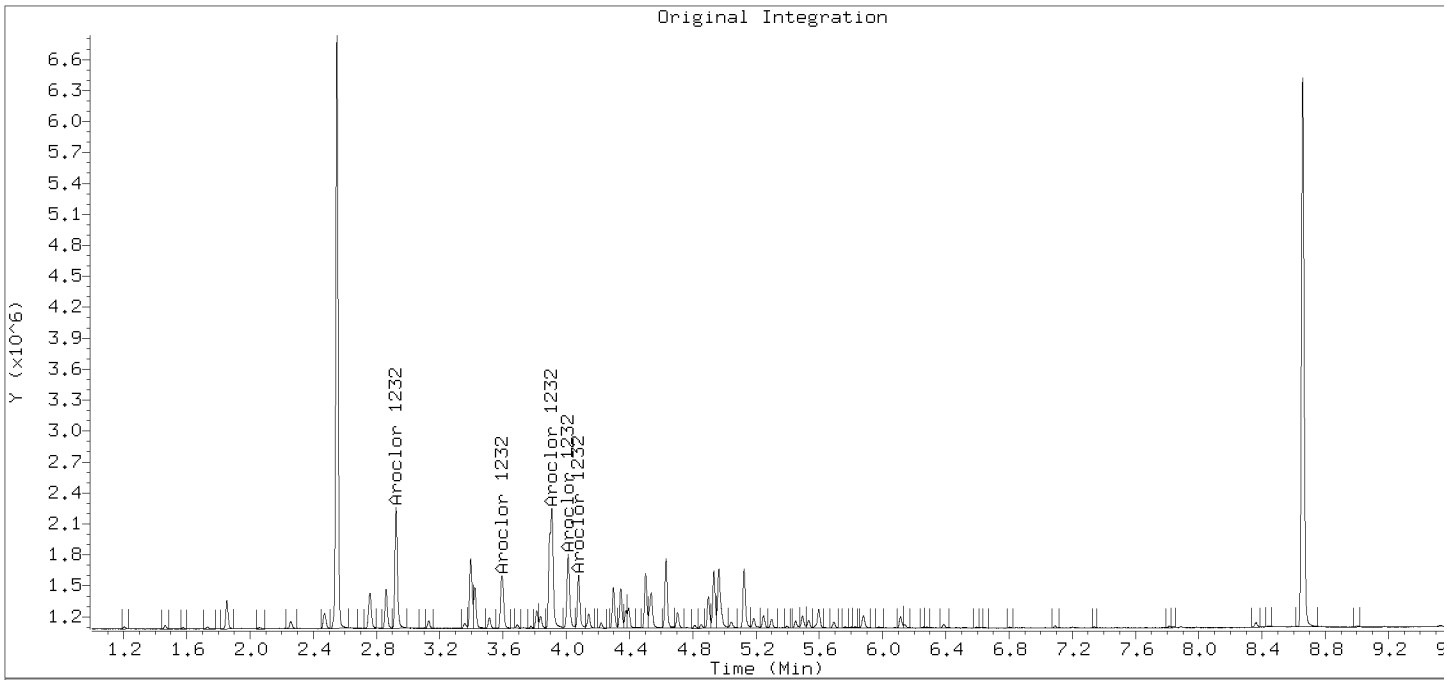
Operator: BLM

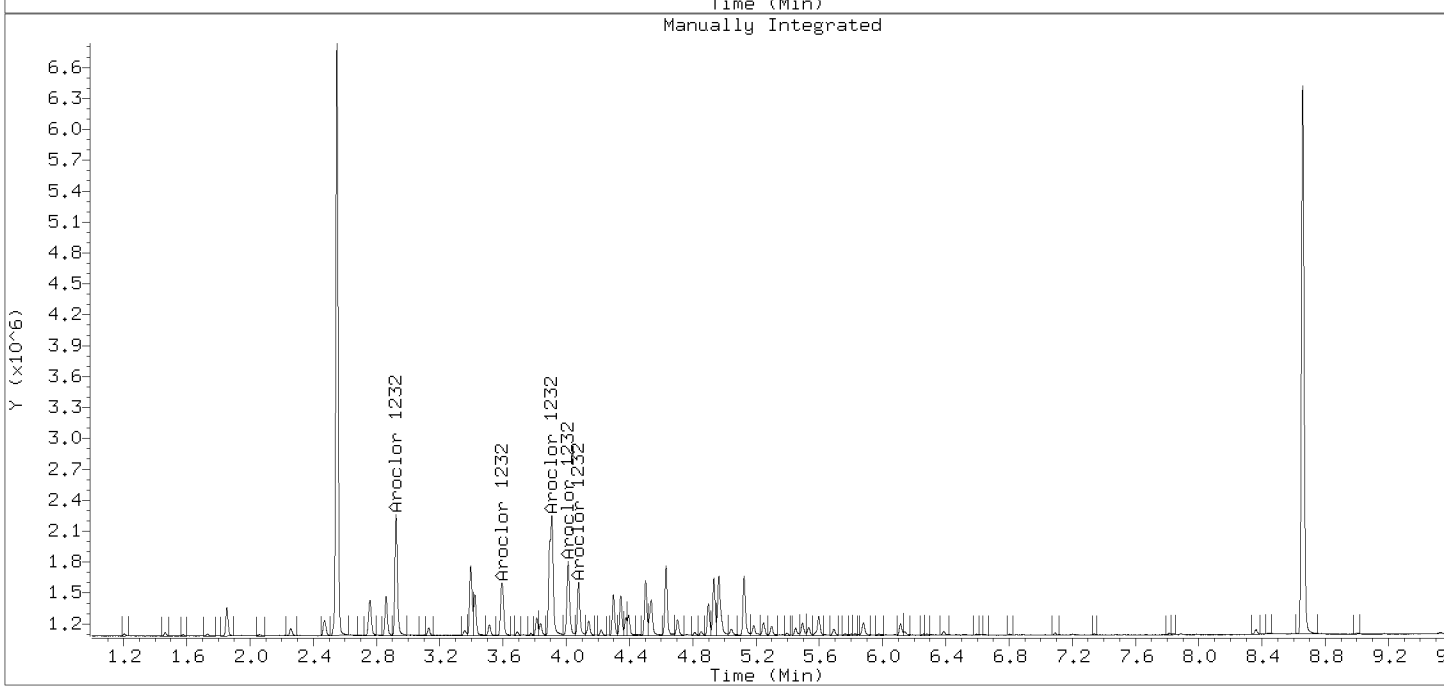
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318007.D (ManInt: NSAR1232.sub Orig: NSAR1232.sub)
Injection Date: 03-MAY-2018 10:38 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1232-CAL3S





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1323458	1347289	BA
Aroclor 1232	1323458	1347289	BA
Aroclor 1232	1323458	1347289	BA
Aroclor 1232	1323458	1347289	BA
Aroclor 1232	1323458	1347289	BA

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318009.D
Lab Smp Id: 1221-CAL1F Client Smp ID: 1221-CAL1F
Inj Date : 03-MAY-2018 10:54
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:21 Cal File: 050318057.D
Als bottle: 9 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
1.731	9686	10014	1.034	0.27		
1.855	107294	97367	0.907	3.03	1 Aroclor 1221	BA
2.258	32602	27152	0.833	0.92		
2.472	60994	41317	0.677	1.72	1 Aroclor 1221	BA
2.550	1127884	1103764	0.979	31.91		
2.759	145136	109781	0.756	4.10	1 Aroclor 1221	BA
2.861	112722	99631	0.884	3.18	1 Aroclor 1221	BA
2.924	352431	286896	0.814	9.97	1 Aroclor 1221	BA
3.360	17152	14459	0.843	0.48		
3.400	24425	19663	0.805	0.69		
3.591	34963	24199	0.692	0.98		
3.689	15021	10242	0.682	0.42		
3.902	19500	13309	0.683	0.55		
4.013	21517	20144	0.936	0.60		
4.081	21191	16978	0.801	0.59		
4.345	9991	7179	0.719	0.28		
4.536	13824	11359	0.822	0.39		
4.631	12231	10842	0.886	0.34		
8.361	13032	11259	0.864	0.36		
8.658	1382443	1179694	0.853	39.22		
	3534038	3115249		100.000		

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318009.D
Lab Smp Id: 1221-CAL1F Client Smp ID: 1221-CAL1F
Inj Date : 03-MAY-2018 10:54
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:21 Cal File: 050318057.D
Als bottle: 9 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			
1.854	1.853	0.001	107293	0.10000	0.11	0.00- 20.00	100.00(M)	BA
2.472	2.471	0.001	60994	0.10000	0.12	0.00- 20.00	56.85	BA
2.759	2.758	0.001	145136	0.10000	0.10	0.00- 20.00	135.27	BA
2.861	2.860	0.001	112722	0.10000	0.10	0.00- 20.00	105.06	BA
2.924	2.923	0.001	352430	0.10000	0.10	0.00- 20.00	328.47	BA
Average of Peak Amounts =					0.10600			

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\40GCSK.i\050318.b\050318009.D

Date : 03-MAY-2018 10:54

Client ID: 1221-CAL1F

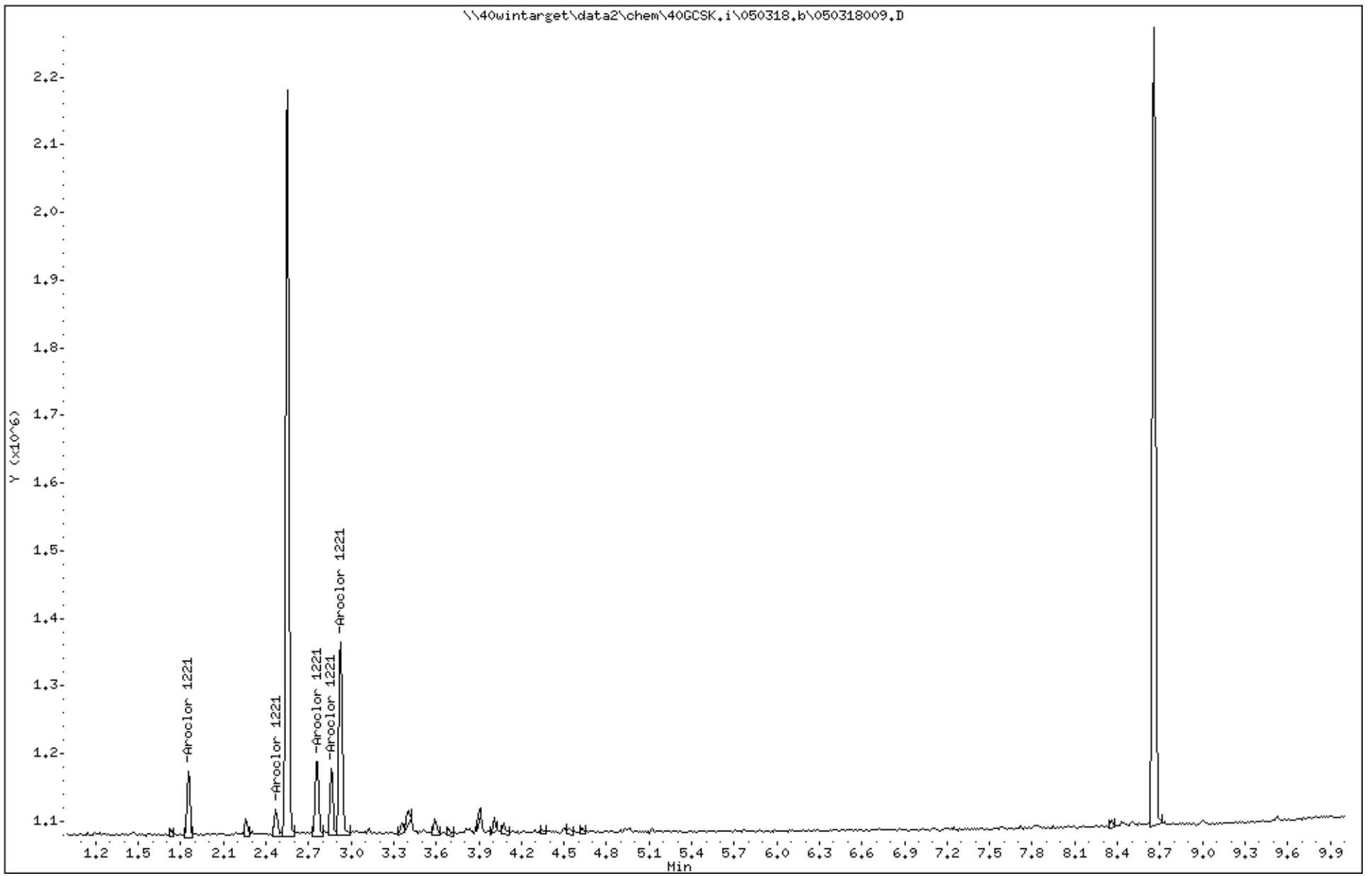
Instrument: 40GCSK.i

Sample Info: 1221-CAL1F, 188138:1

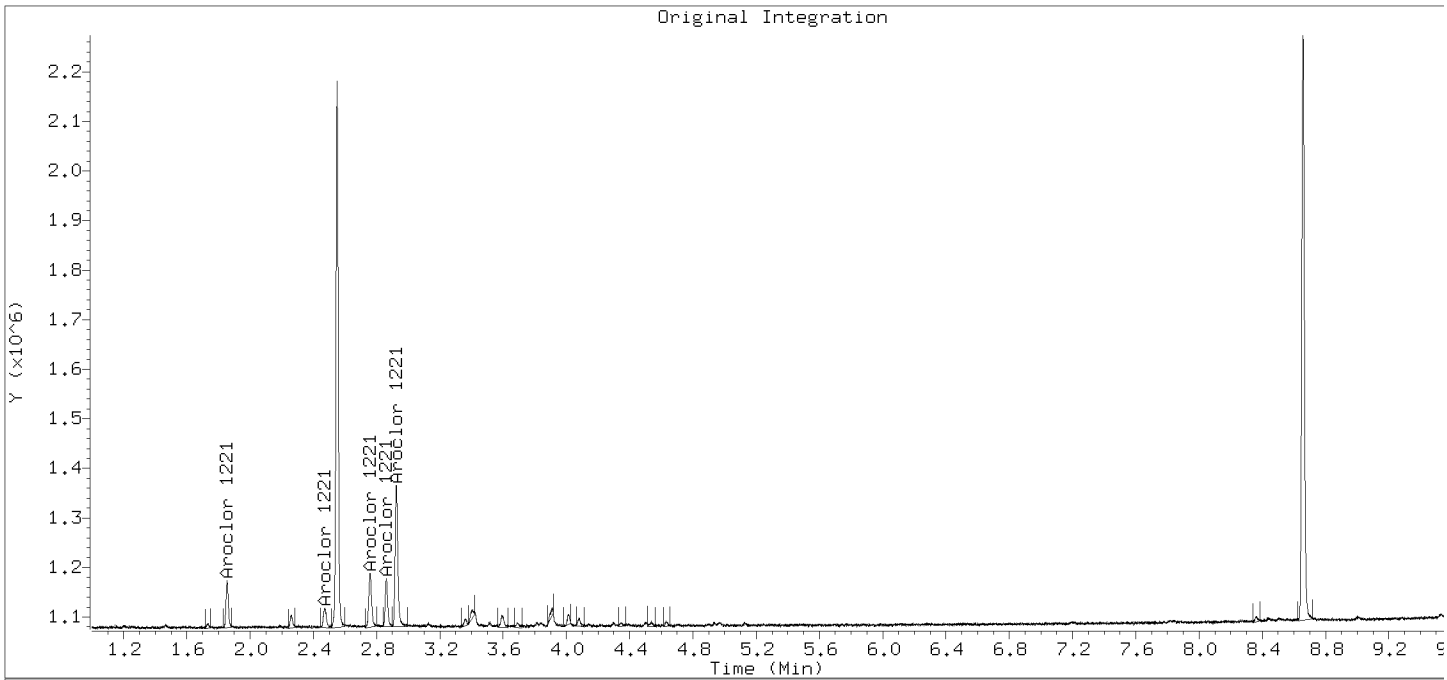
Operator: BLM

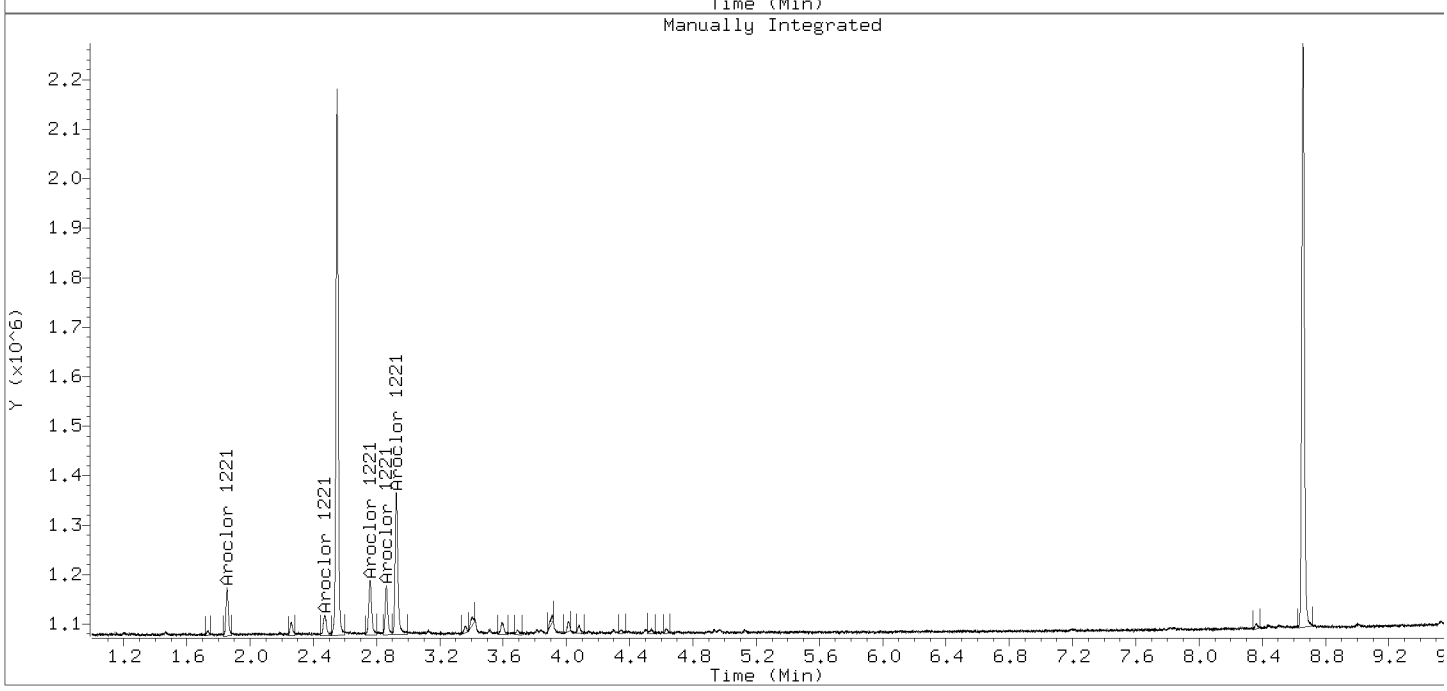
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318009.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 03-MAY-2018 10:54 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL1F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	99498	107293	BA
Aroclor 1221	99498	107293	BA
Aroclor 1221	99498	107293	BA
Aroclor 1221	99498	107293	BA
Aroclor 1221	99498	107293	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318011.D
Lab Smp Id: 1221-CAL2F Client Smp ID: 1221-CAL2F
Inj Date : 03-MAY-2018 11:10
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:37 Cal File: 050318059.D
Als bottle: 11 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
1.465	15879	14491	0.913	0.21		
1.854	211316	193008	0.913	2.82	1 Aroclor 1221	BA
2.260	64781	53626	0.828	0.86		
2.473	108295	79375	0.733	1.44	1 Aroclor 1221	BA
2.550	2289757	2220517	0.970	30.61		
2.759	285864	216962	0.759	3.82	1 Aroclor 1221	BA
2.861	228790	197664	0.864	3.05	1 Aroclor 1221	BA
2.924	703532	596946	0.848	9.40	1 Aroclor 1221	BA
3.358	43090	32927	0.764	0.57		
3.405	163983	71887	0.438	2.19		
3.514	12665	11698	0.924	0.16		
3.595	64510	43474	0.674	0.86		
3.692	18163	19178	1.056	0.24		
3.813	14469	14899	1.030	0.19		
3.840	12566	13596	1.082	0.16		
3.910	131415	75277	0.573	1.75		
4.014	69273	51693	0.746	0.92		
4.080	50183	36326	0.724	0.67		
4.140	11470	8989	0.784	0.15		
4.301	17091	13825	0.809	0.22		
4.342	9983	11347	1.137	0.13		
4.502	18400	18442	1.002	0.24		
4.536	16704	13732	0.822	0.22		
4.634	22705	19334	0.852	0.30		
4.901	10007	9965	0.996	0.13		
4.933	16599	13590	0.819	0.22		
4.966	23685	14128	0.596	0.31		
5.125	20545	13707	0.667	0.27		
5.182	10842	6714	0.619	0.14		
8.363	28463	22195	0.780	0.38		
8.657	2783075	2356466	0.847	37.37		
	7478097	6465978		100.000		

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318011.D
Lab Smp Id: 1221-CAL2F Client Smp ID: 1221-CAL2F
Inj Date : 03-MAY-2018 11:10
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:37 Cal File: 050318059.D
Als bottle: 11 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			
1.854	1.853	0.001	211315	0.20000	0.21	0.00- 20.00	100.00(M)	BA
2.473	2.471	0.002	108294	0.20000	0.20	0.00- 20.00	51.25	BA
2.759	2.758	0.001	285863	0.20000	0.21	0.00- 20.00	135.28	BA
2.861	2.860	0.001	228789	0.20000	0.21	0.00- 20.00	108.27	BA
2.924	2.923	0.001	703532	0.20000	0.21	0.00- 20.00	332.93	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.

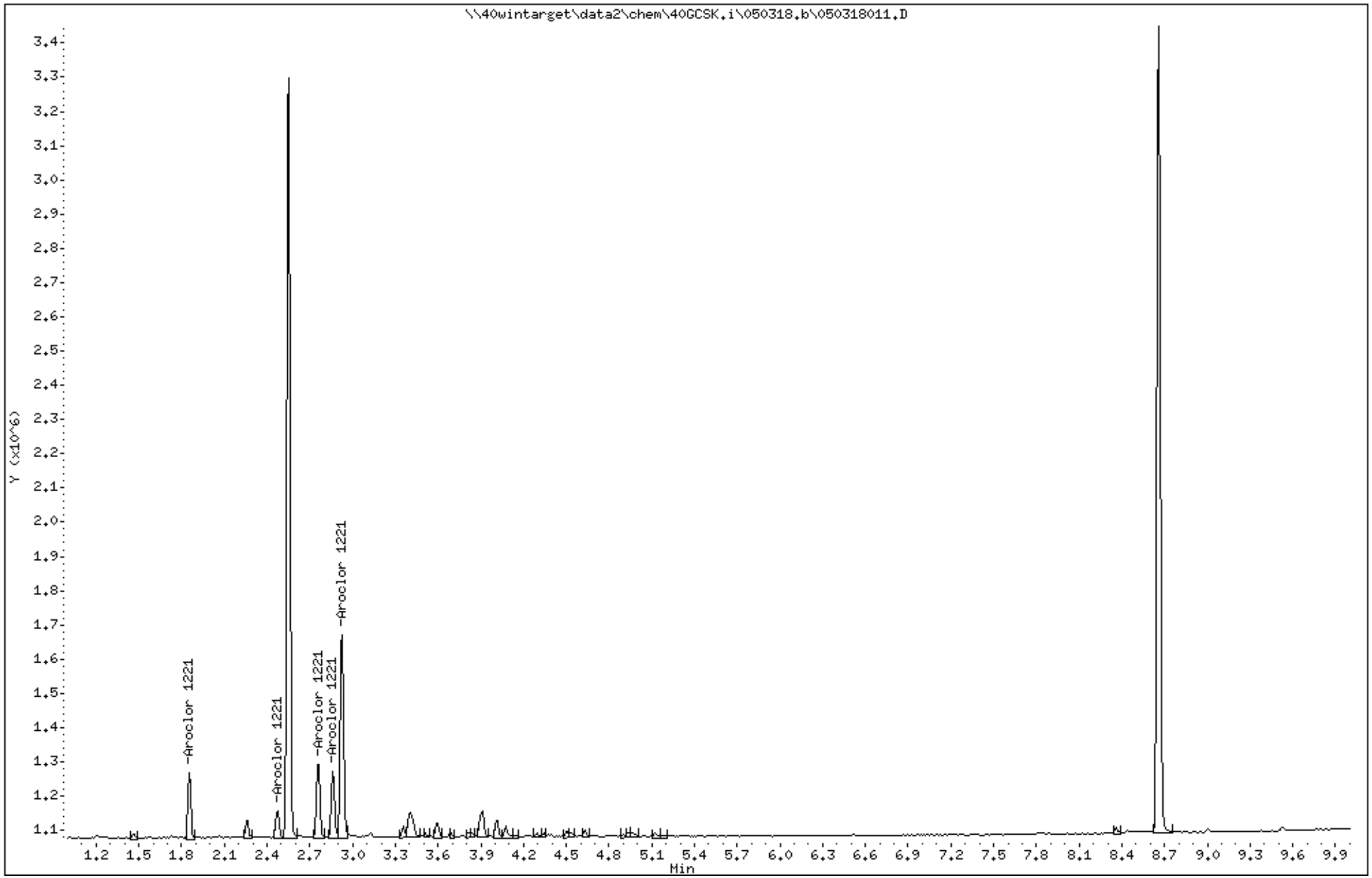
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318011.D
Date : 03-MAY-2018 11:10
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

Instrument: 40GCSK.i

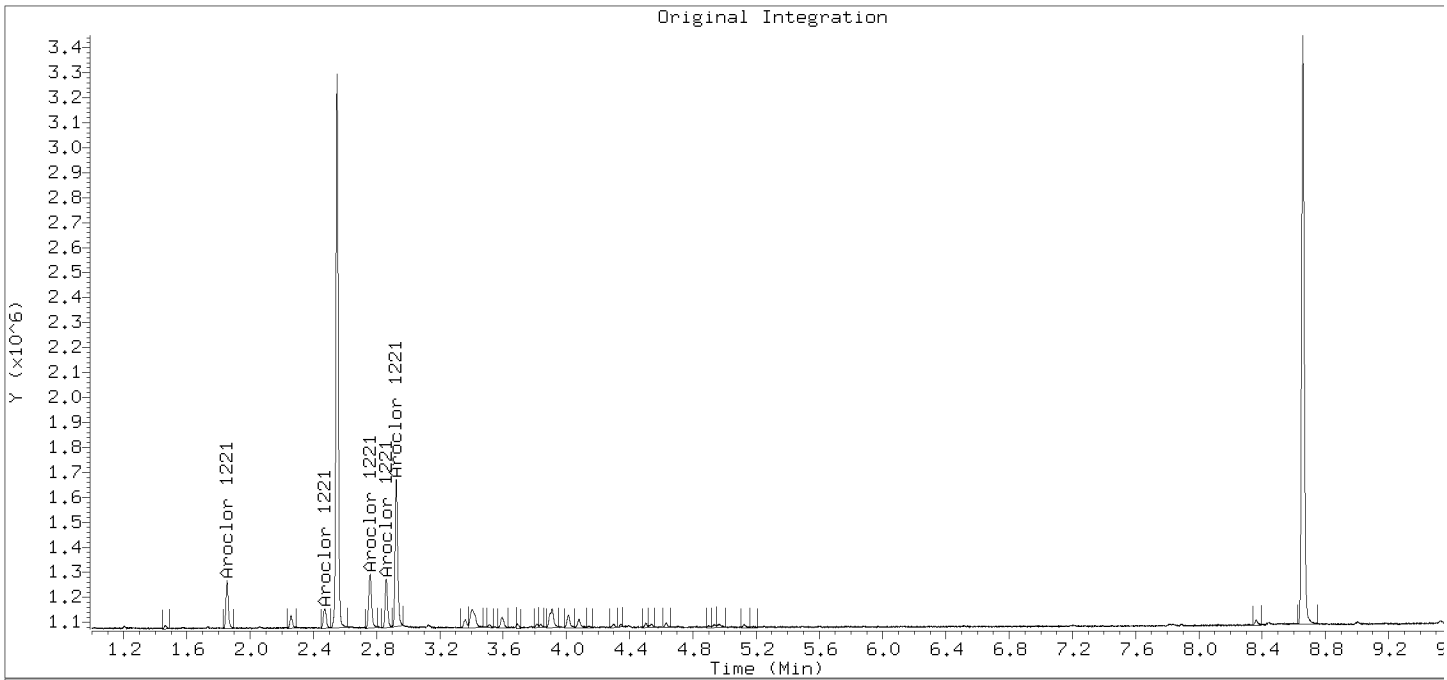
Operator: BLM

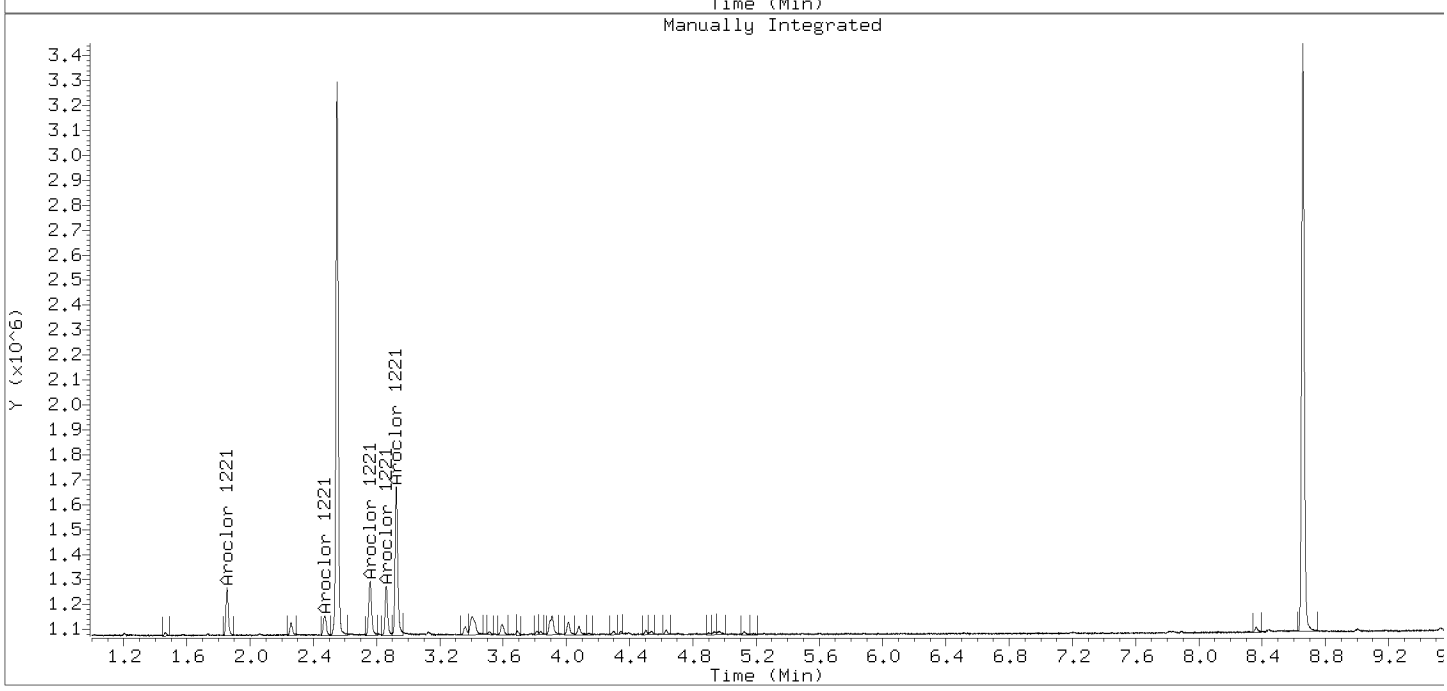
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318011.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 03-MAY-2018 11:10 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL2F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	208640	211315	BA
Aroclor 1221	208640	211315	BA
Aroclor 1221	208640	211315	BA
Aroclor 1221	208640	211315	BA
Aroclor 1221	208640	211315	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318013.D
Lab Smp Id: 1221-CAL3F Client Smp ID: 1221-CAL3F
Inj Date : 03-MAY-2018 11:26
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal3f, 185538:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 13 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
1.201	19806	17369	0.877	0.11		
1.464	34328	33619	0.979	0.19		
1.581	13696	12713	0.928	0.07		
1.731	22417	22129	0.987	0.12		
1.854	481906	459228	0.953	2.71	1 Aroclor 1221	BA
2.062	21230	13100	0.617	0.11		
2.259	150886	131990	0.875	0.85		
2.472	256415	187664	0.732	1.44	1 Aroclor 1221	BA
2.550	5729845	5680322	0.991	32.28		
2.759	674836	526641	0.780	3.80	1 Aroclor 1221	BA
2.861	533614	482208	0.904	3.00	1 Aroclor 1221	BA
2.924	1641425	1395945	0.850	9.24	1 Aroclor 1221	BA
3.127	39491	30512	0.773	0.22		
3.359	105533	79776	0.756	0.59		
3.405	373652	182022	0.487	2.10		
3.515	34263	30001	0.876	0.19		
3.593	136019	97896	0.720	0.76		
3.690	34659	33804	0.975	0.19		
3.814	38841	37190	0.957	0.21		
3.839	44019	32301	0.734	0.24		
3.911	312341	176326	0.565	1.75		
4.012	150124	121678	0.811	0.84		
4.078	83461	76616	0.918	0.47		
4.138	21058	16682	0.792	0.11		
4.299	34557	31764	0.919	0.19		
4.344	27319	27925	1.022	0.15		
4.502	41583	38153	0.918	0.23		
4.536	45871	32766	0.714	0.25		
4.632	49554	44613	0.900	0.27		
4.707	14877	13175	0.886	0.08		
4.897	19763	17339	0.877	0.11		
4.932	35107	31569	0.899	0.19		
4.964	55119	33699	0.611	0.31		
5.123	30869	27401	0.888	0.17		
5.182	10539	10226	0.970	0.05		
5.465	12554	8003	0.637	0.07		
5.603	14796	10872	0.735	0.08		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.816	16463	16235	0.986	0.09	
7.882	13185	9486	0.719	0.07	
8.362	50880	43970	0.864	0.28	
8.441	11158	11087	0.994	0.06	
8.657	6277000	5286410	0.842	35.59	
9.007	15656	11336	0.724	0.08	
9.524	16632	9751	0.586	0.09	
	17747348	15593512		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318013.D
Lab Smp Id: 1221-CAL3F Client Smp ID: 1221-CAL3F
Inj Date : 03-MAY-2018 11:26
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal3f, 185538:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 13 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			
1.854	1.853	0.001	481905	0.50000	0.49	0.00- 20.00	100.00(M)	BA
2.471	2.471	0.000	256414	0.50000	0.49	0.00- 20.00	53.21	BA
2.758	2.758	0.000	674836	0.50000	0.49	0.00- 20.00	140.04	BA
2.861	2.860	0.001	533613	0.50000	0.48	0.00- 20.00	110.73	BA
2.924	2.923	0.001	1641425	0.50000	0.49	0.00- 20.00	340.61	BA
Average of Peak Amounts =					0.48800			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

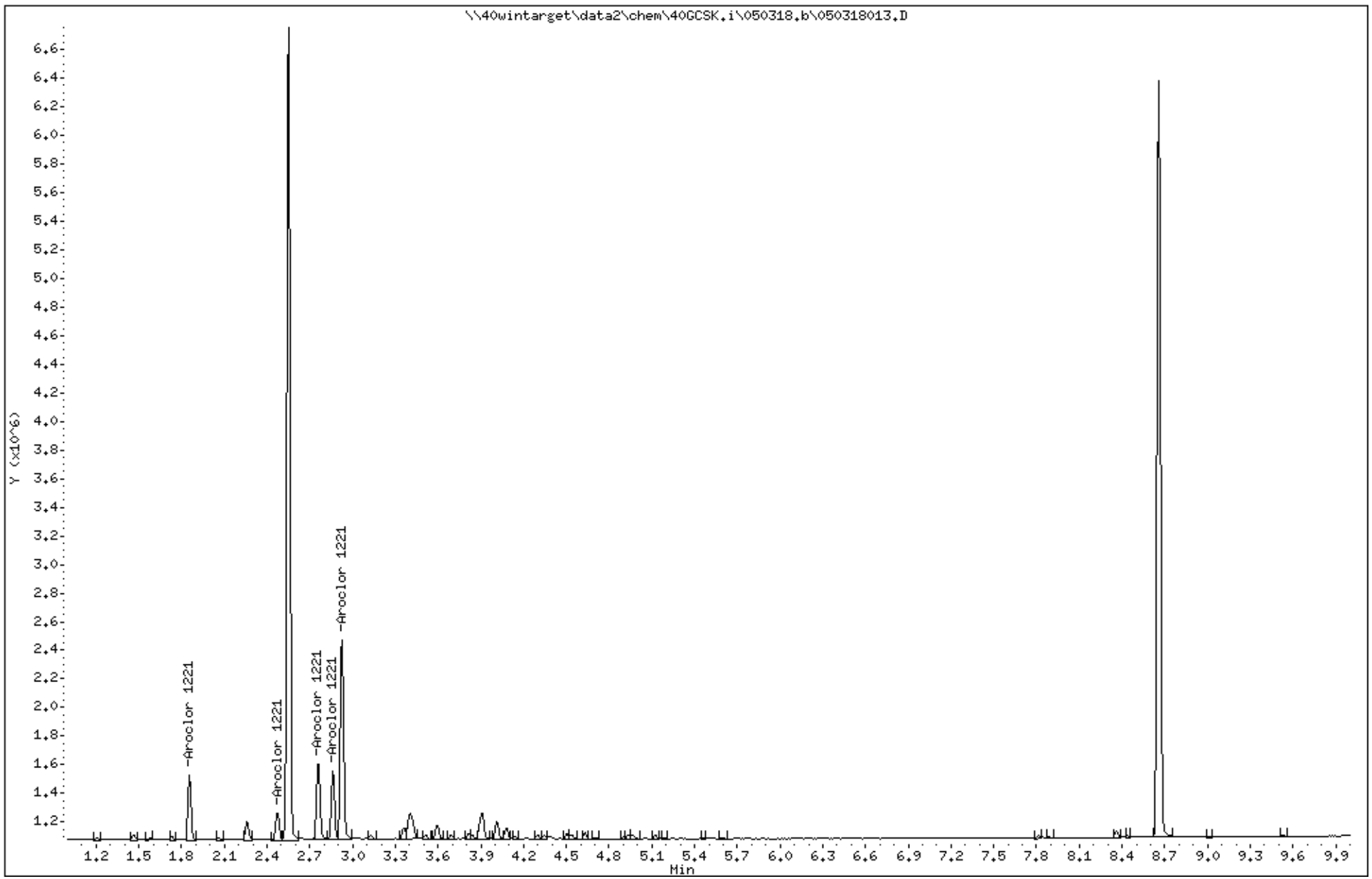
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318013.D
Date : 03-MAY-2018 11:26
Client ID: 1221-CAL3F
Sample Info: 1221-CAL3F, 185538:1

Instrument: 40GCSK.i

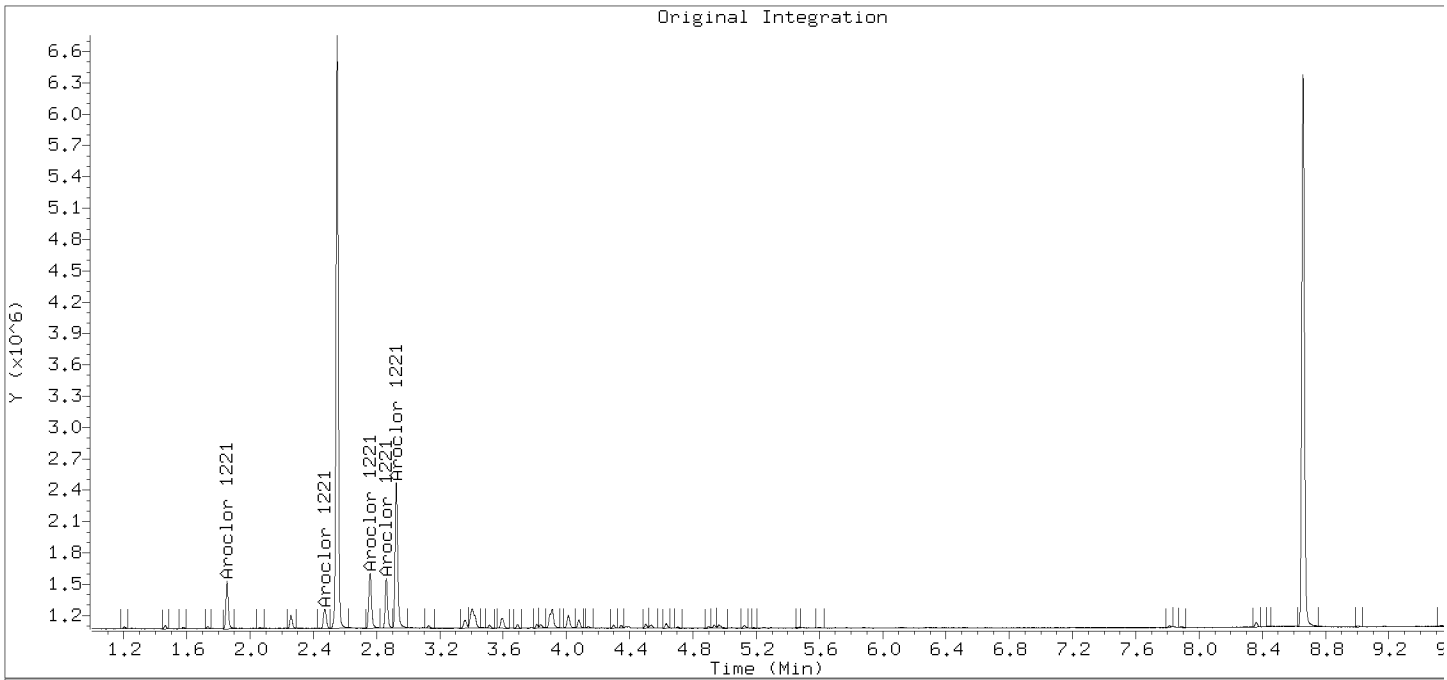
Operator: BLM

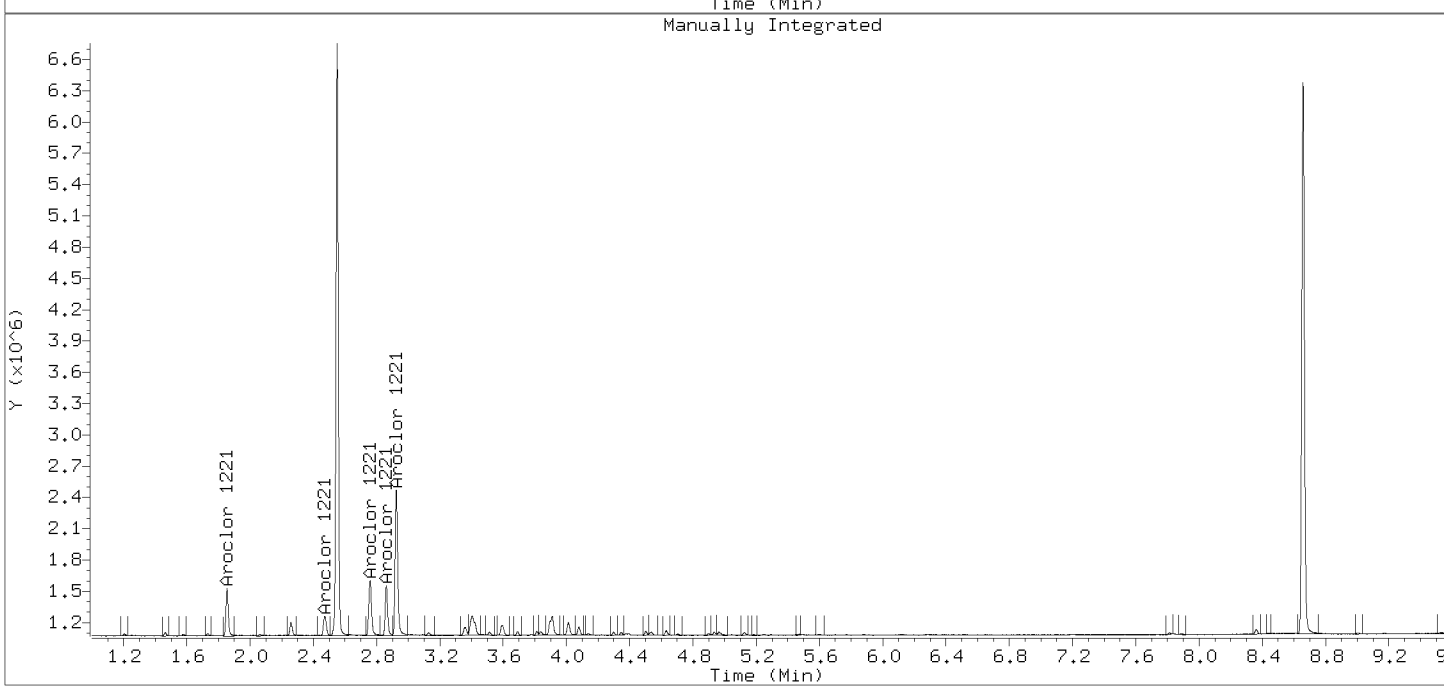
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318013.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 03-MAY-2018 11:26 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL3F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	472180	481905	BA
Aroclor 1221	472180	481905	BA
Aroclor 1221	472180	481905	BA
Aroclor 1221	472180	481905	BA
Aroclor 1221	472180	481905	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318015.D
Lab Smp Id: 1221-CAL4F Client Smp ID: 1221-CAL4F
Inj Date : 03-MAY-2018 11:42
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:09 Cal File: 050318063.D
Als bottle: 15 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
1.463	62467	66238	1.060	0.19		
1.577	26051	25516	0.979	0.07		
1.730	11290	10326	0.915	0.03		
1.853	756562	738586	0.976	2.31	1 Aroclor 1221	BA
2.219	12921	12941	1.002	0.03		
2.257	231878	210040	0.906	0.70		
2.472	394357	296324	0.751	1.20	1 Aroclor 1221	BA
2.550	11288202	11424781	1.012	34.55		
2.758	1098103	858329	0.782	3.36	1 Aroclor 1221	BA
2.861	869721	816147	0.938	2.66	1 Aroclor 1221	BA
2.924	2585980	2210668	0.855	7.91	1 Aroclor 1221	BA
3.128	60750	49829	0.820	0.18		
3.359	175040	128039	0.731	0.53		
3.405	636597	303154	0.476	1.94		
3.516	62193	48496	0.780	0.19		
3.592	221136	160872	0.727	0.67		
3.692	64160	62683	0.977	0.19		
3.780	15778	13689	0.868	0.04		
3.815	56416	55340	0.981	0.17		
3.840	59542	52540	0.882	0.18		
3.910	503386	285084	0.566	1.54		
4.013	244221	198357	0.812	0.74		
4.079	147817	123761	0.837	0.45		
4.143	28267	21855	0.773	0.08		
4.299	55729	51223	0.919	0.17		
4.346	53118	46707	0.879	0.16		
4.378	20471	22789	1.113	0.06		
4.395	30581	26863	0.878	0.09		
4.504	64159	61344	0.956	0.19		
4.535	72614	48748	0.671	0.22		
4.633	79409	71021	0.894	0.24		
4.706	16859	17941	1.064	0.05		
4.901	27717	27556	0.994	0.08		
4.936	52627	48127	0.914	0.16		
4.966	67579	46275	0.685	0.20		
5.126	56098	44136	0.787	0.17		
5.188	12589	11361	0.902	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.246	9993	8997	0.900	0.03	
5.298	15256	9429	0.618	0.04	
5.492	11243	11808	1.050	0.03	
5.597	18404	17450	0.948	0.05	
6.111	12044	9193	0.763	0.03	
7.816	40556	33381	0.823	0.12	
7.889	17529	16837	0.961	0.05	
8.361	97115	87685	0.903	0.29	
8.609	12181	8121	0.667	0.03	
8.657	12181936	10656717	0.875	37.53	
9.009	9866	9243	0.937	0.03	
9.175	16151	12564	0.778	0.04	
	32664658	29579111		100.000	

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318015.D
Lab Smp Id: 1221-CAL4F Client Smp ID: 1221-CAL4F
Inj Date : 03-MAY-2018 11:42
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:09 Cal File: 050318063.D
Als bottle: 15 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			
1.853	1.853	0.000	756561	0.80000	0.76	0.00- 20.00	100.00(M)	BA
2.471	2.471	0.000	394356	0.80000	0.75	0.00- 20.00	52.12	BA
2.758	2.758	0.000	1098103	0.80000	0.79	0.00- 20.00	145.14	BA
2.860	2.860	0.000	869720	0.80000	0.79	0.00- 20.00	114.96	BA
2.923	2.923	0.000	2585979	0.80000	0.77	0.00- 20.00	341.81	BA
Average of Peak Amounts =					0.77200			

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\40GCSK.i\050318.b\050318015.D

Date : 03-MAY-2018 11:42

Client ID: 1221-CAL4F

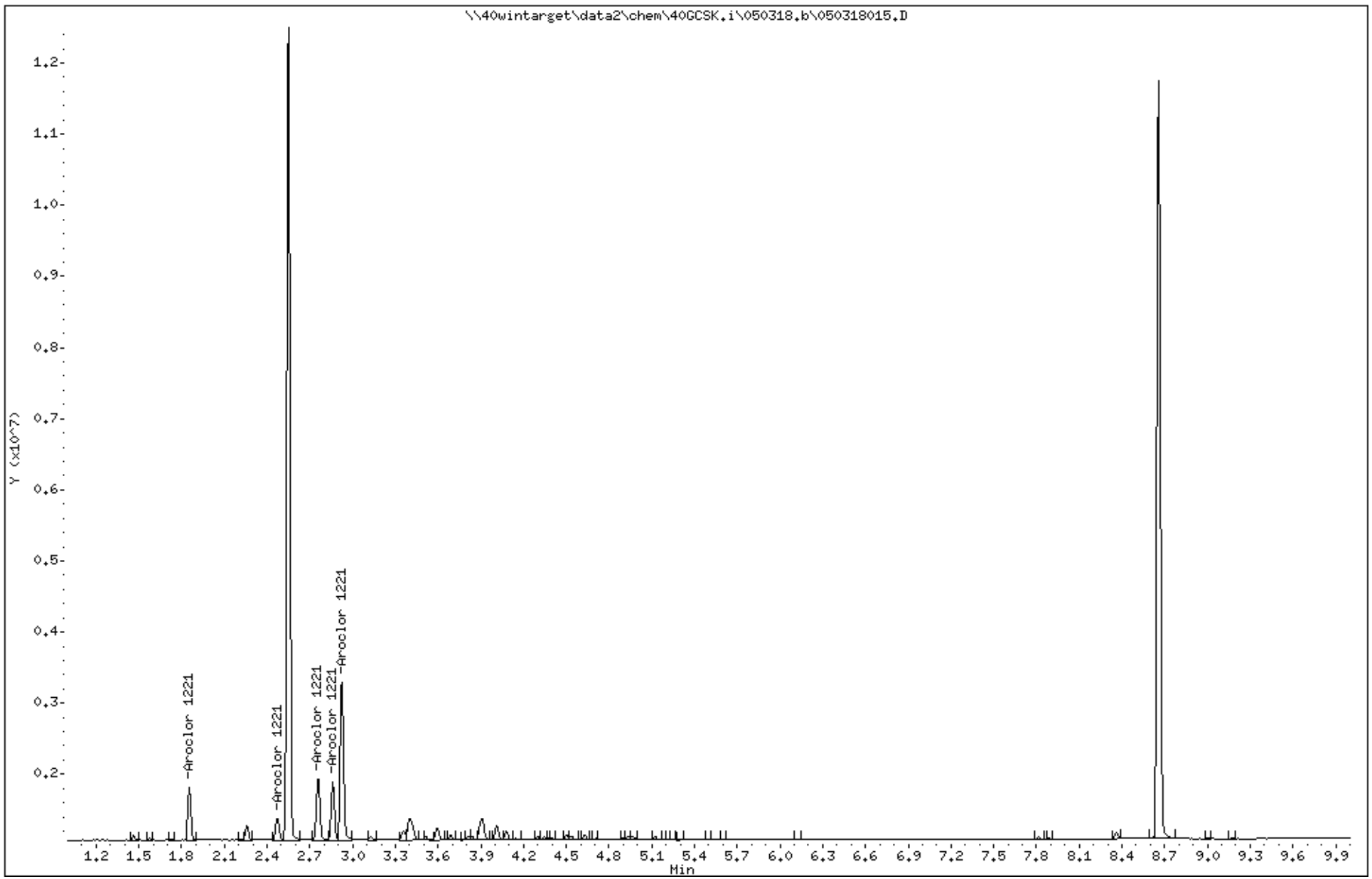
Instrument: 40GCSK.i

Sample Info: 1221-CAL4F, 188140:1

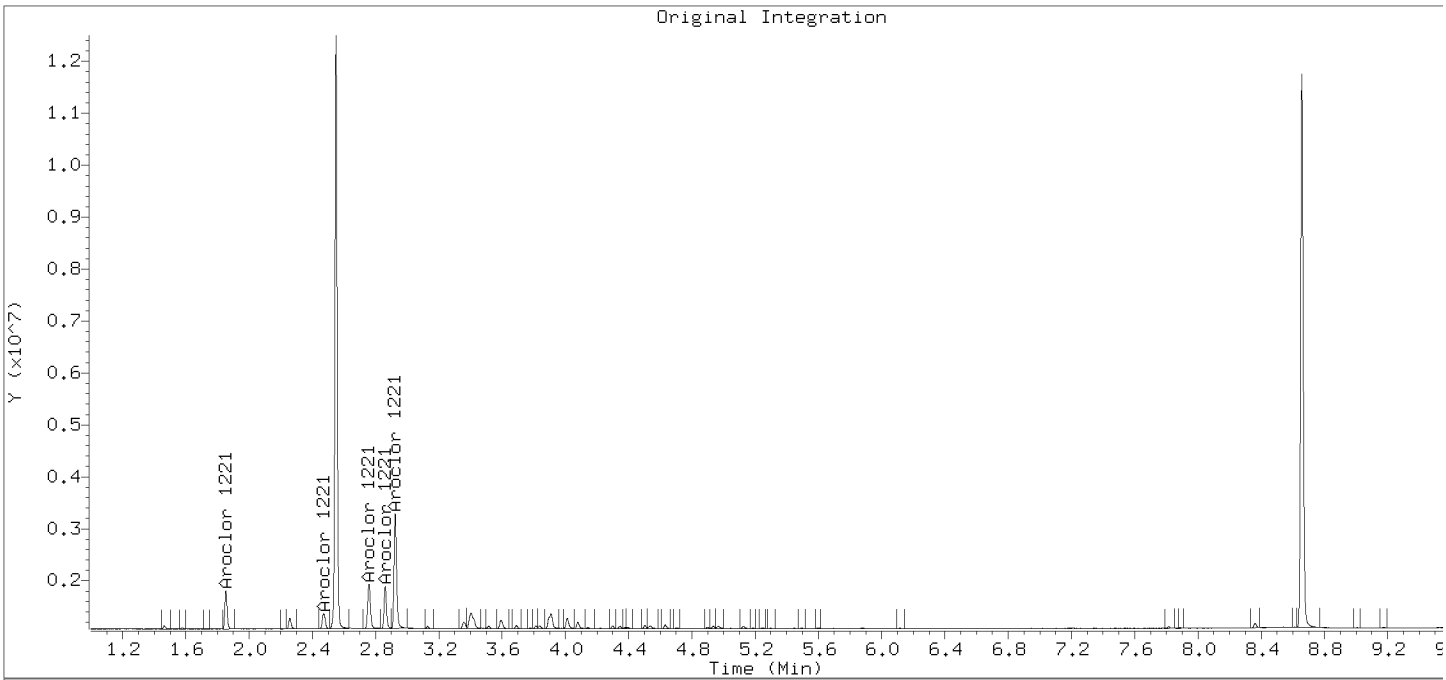
Operator: BLM

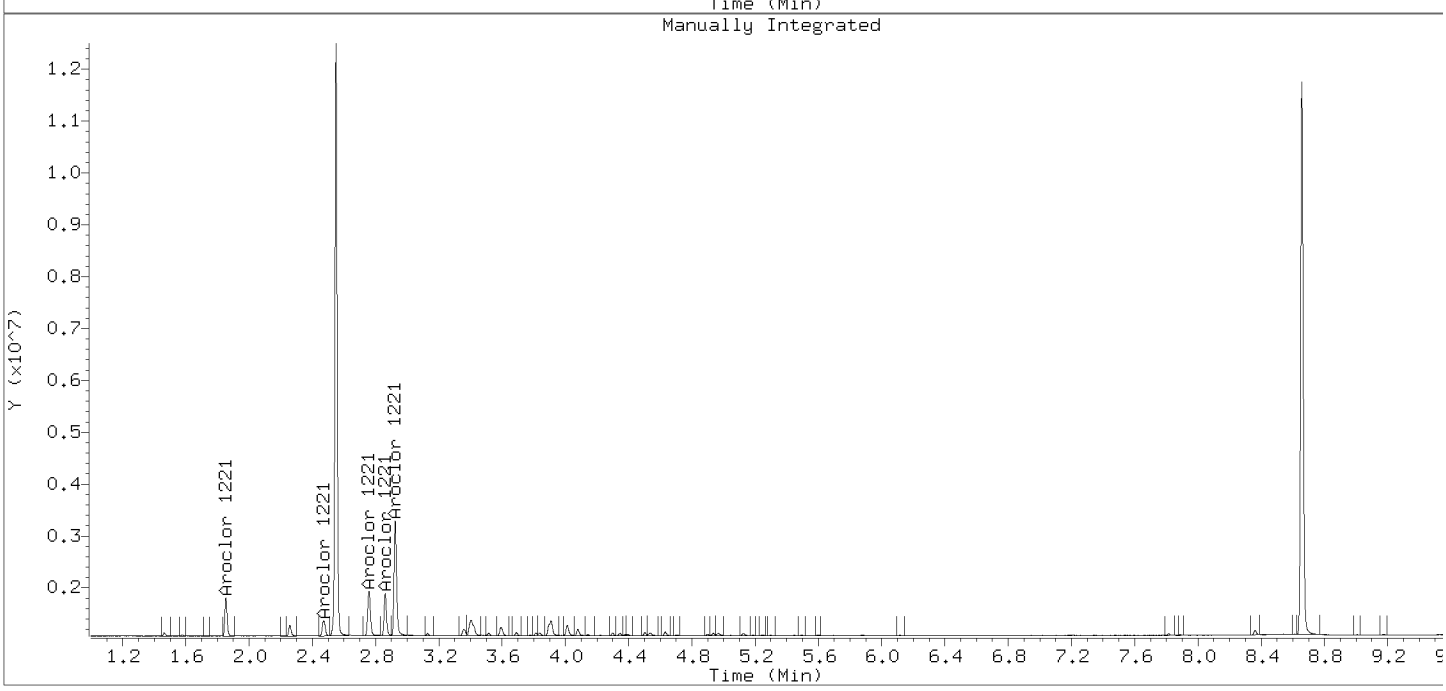
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318015.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 03-MAY-2018 11:42 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL4F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	747603	756561	BA
Aroclor 1221	747603	756561	BA
Aroclor 1221	747603	756561	BA
Aroclor 1221	747603	756561	BA
Aroclor 1221	747603	756561	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318017.D
Lab Smp Id: 1221-CAL5F Client Smp ID: 1221-CAL5F
Inj Date : 03-MAY-2018 11:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 17 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
1.466	86560	81752	0.944	0.18		
1.577	39981	32917	0.823	0.08		
1.733	10376	9083	0.875	0.02		
1.854	912984	845196	0.926	1.97	1 Aroclor 1221	BA
2.224	14589	13442	0.921	0.03		
2.259	277307	247450	0.892	0.60		
2.472	478737	363321	0.759	1.03	1 Aroclor 1221	BA
2.550	16718686	16635185	0.995	36.18		
2.759	1331974	1029492	0.773	2.88	1 Aroclor 1221	BA
2.861	1092035	987709	0.904	2.36	1 Aroclor 1221	BA
2.924	3158163	2670312	0.846	6.83	1 Aroclor 1221	BA
3.128	74815	64604	0.864	0.16		
3.297	14440	11619	0.805	0.03		
3.360	217927	159104	0.730	0.47		
3.404	774497	376517	0.486	1.67		
3.515	71613	59951	0.837	0.15		
3.593	263073	193439	0.735	0.56		
3.691	97068	94111	0.970	0.21		
3.779	18742	15965	0.852	0.04		
3.813	68362	67240	0.984	0.14		
3.839	77597	66854	0.862	0.16		
3.911	645632	358639	0.555	1.39		
4.012	311461	238156	0.765	0.67		
4.079	188073	150402	0.800	0.40		
4.143	26765	22877	0.855	0.05		
4.223	15326	11394	0.743	0.03		
4.298	68487	60898	0.889	0.14		
4.345	60487	57376	0.949	0.13		
4.376	24787	26528	1.070	0.05		
4.396	35273	30592	0.867	0.07		
4.503	75102	72176	0.961	0.16		
4.537	81805	59014	0.721	0.17		
4.632	100269	88196	0.880	0.21		
4.701	27850	23190	0.833	0.06		
4.901	35921	31718	0.883	0.07		
4.934	63536	56733	0.893	0.13		
4.966	77843	55444	0.712	0.16		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.044	13246	8199	0.619	0.02	
5.126	68865	53489	0.777	0.14	
5.184	19315	15142	0.784	0.04	
5.249	17014	14750	0.867	0.03	
5.450	11095	9958	0.898	0.02	
5.493	13458	12857	0.955	0.02	
5.535	9981	9229	0.925	0.02	
5.596	31210	20266	0.649	0.06	
7.813	62198	50143	0.806	0.13	
7.886	25008	20643	0.825	0.05	
8.361	157283	125288	0.797	0.34	
8.657	18075467	15461278	0.855	39.39	
9.003	17393	11821	0.680	0.03	
9.170	16926	15790	0.933	0.03	
9.532	20418	15024	0.736	0.04	
	46197020	41212473		100.000	

Total unknown % area = 85

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318017.D
Lab Smp Id: 1221-CAL5F Client Smp ID: 1221-CAL5F
Inj Date : 03-MAY-2018 11:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17762,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 17 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			
1.853	1.853	0.000	912984	1.00000	0.92	0.00- 20.00	100.00(M)	BA
2.471	2.471	0.000	478736	1.00000	0.91	0.00- 20.00	52.44	BA
2.758	2.758	0.000	1331974	1.00000	0.96	0.00- 20.00	145.89	BA
2.860	2.860	0.000	1092035	1.00000	0.99	0.00- 20.00	119.61	BA
2.924	2.923	0.001	3158162	1.00000	0.94	0.00- 20.00	345.92	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\40GCSK.i\050318.b\050318017.D

Date : 03-MAY-2018 11:58

Client ID: 1221-CAL5F

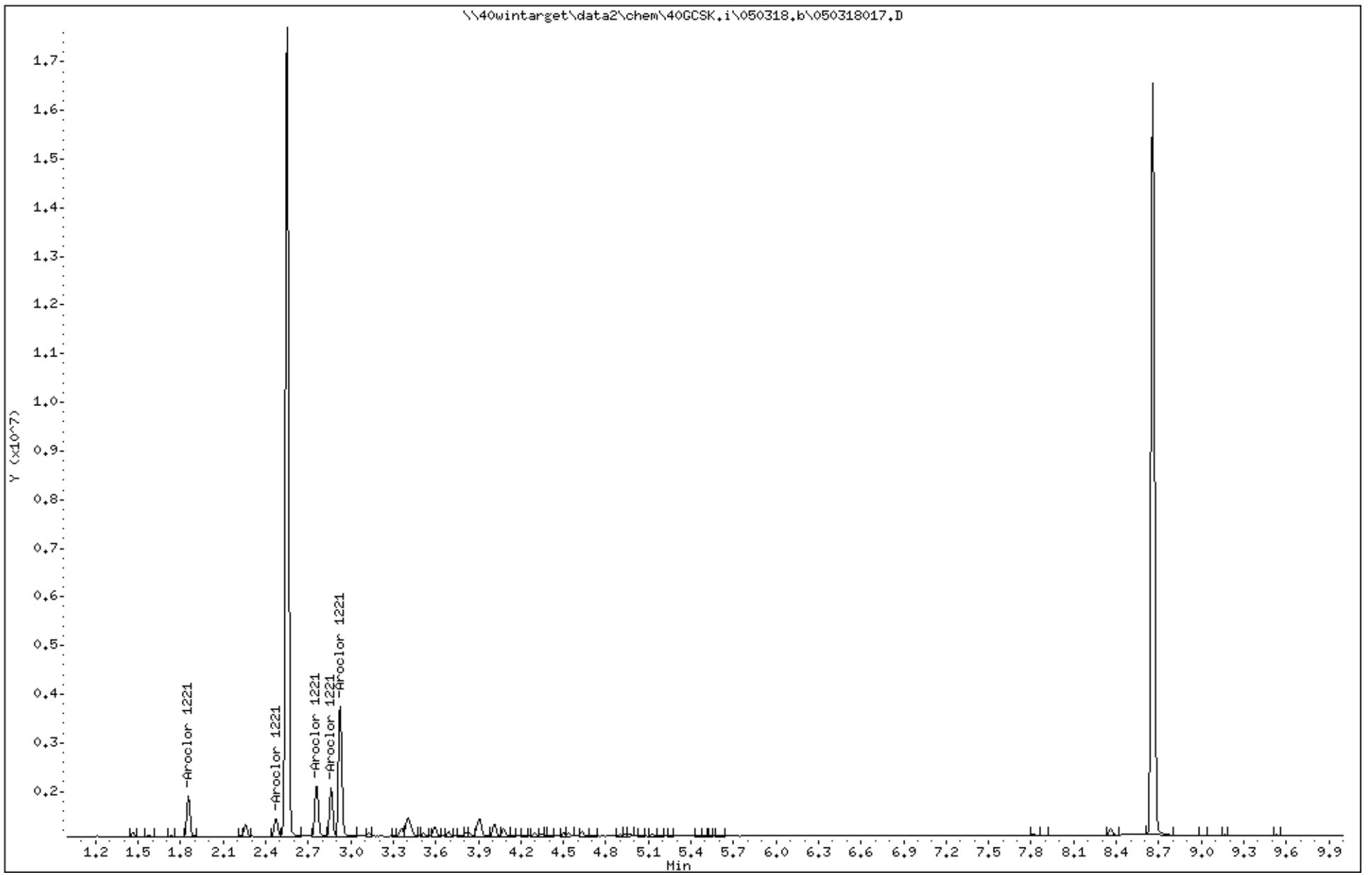
Instrument: 40GCSK.i

Sample Info: 1221-CAL5F, 188141:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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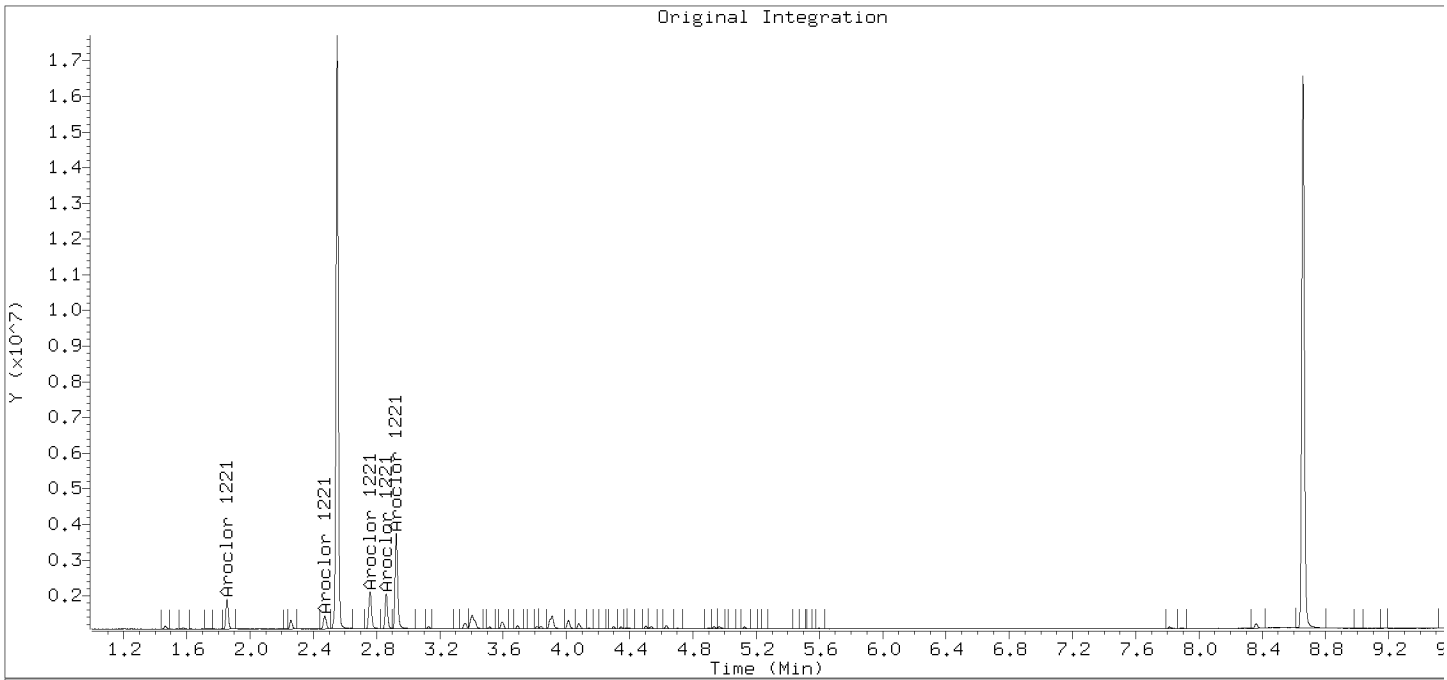
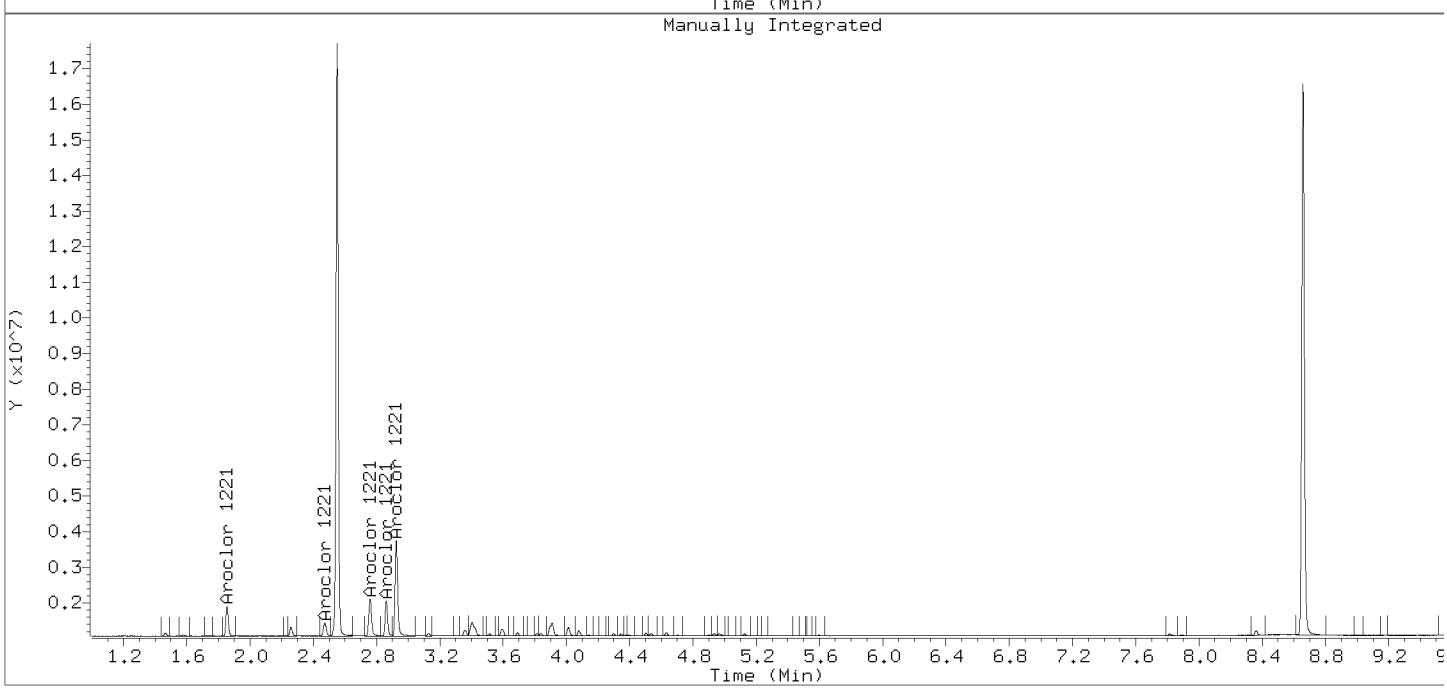
Injection Date: 03-MAY-2018 11:58 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL5F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	902511	912984	BA
Aroclor 1221	902511	912984	BA
Aroclor 1221	902511	912984	BA
Aroclor 1221	902511	912984	BA
Aroclor 1221	902511	912984	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318021.D
Lab Smp Id: 1242-CAL1B Client Smp ID: 1242-CAL1B
Inj Date : 03-MAY-2018 12:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:21 Cal File: 050318057.D
Als bottle: 21 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
1.206	28923	26707	0.923	0.32		
1.459	9632	9382	0.974	0.10		
1.732	13274	11233	0.846	0.14		
2.060	21942	17112	0.780	0.24		
2.471	28874	20912	0.724	0.32		
2.550	1241580	1224246	0.986	13.84		
2.755	40894	27872	0.682	0.45		
2.861	57849	50217	0.868	0.64		
2.924	199748	172754	0.865	2.22		
3.089	13266	8445	0.637	0.14		
3.130	32248	28628	0.888	0.35		
3.395	271317	260313	0.959	3.02	3 Aroclor 1242	BA
3.422	183524	157383	0.858	2.04		
3.515	49142	39067	0.795	0.54		
3.594	279895	195275	0.698	3.12	3 Aroclor 1242	BA
3.689	13802	11163	0.809	0.15		
3.812	66845	61399	0.919	0.74		
3.837	51079	41417	0.811	0.56		
3.909	795170	434020	0.546	8.86	3 Aroclor 1242	BA
4.013	348234	264164	0.759	3.88	3 Aroclor 1242	BA
4.079	243610	190571	0.782	2.71	3 Aroclor 1242	BA
4.142	79723	65365	0.820	0.88		
4.219	30879	24808	0.803	0.34		
4.298	195636	179445	0.917	2.18		
4.344	188510	168351	0.893	2.10		
4.376	77092	77957	1.011	0.85		
4.395	103701	91361	0.881	1.15		
4.502	248244	230717	0.929	2.76		
4.538	205347	149242	0.727	2.29		
4.631	326747	282958	0.866	3.64		
4.704	81807	67879	0.830	0.91		
4.813	20086	15358	0.765	0.22		
4.852	22144	17239	0.778	0.24		
4.899	146228	132095	0.903	1.63		
4.934	259483	228798	0.882	2.89		
4.966	366167	235747	0.644	4.08		
5.045	55419	31825	0.574	0.61		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.125	277452	220766	0.796	3.09	
5.185	63840	53648	0.840	0.71	
5.249	77207	63161	0.818	0.86	
5.298	60288	48702	0.808	0.67	
5.397	15325	11239	0.733	0.17	
5.450	46837	38790	0.828	0.52	
5.493	77000	62709	0.814	0.85	
5.533	50710	41227	0.813	0.56	
5.596	124819	95128	0.762	1.39	
5.692	35815	31910	0.891	0.39	
5.766	10751	7935	0.738	0.11	
5.881	73757	60061	0.814	0.82	
6.115	57504	48345	0.841	0.64	
6.386	20851	19433	0.932	0.23	
6.511	10706	9610	0.898	0.11	
7.836	17050	11648	0.683	0.19	
8.358	10844	11178	1.031	0.12	
8.439	12445	13462	1.082	0.13	
8.658	1502675	1268700	0.844	17.07	
8.995	9809	9381	0.956	0.10	
9.525	11499	9427	0.820	0.12	
	8965247	7387885		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318021.D
Lab Smp Id: 1242-CAL1B Client Smp ID: 1242-CAL1B
Inj Date : 03-MAY-2018 12:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:21 Cal File: 050318057.D
Als bottle: 21 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			
3.395	3.396	-0.001	271317	0.10000	0.11	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	279895	0.10000	0.11	0.00- 20.00	103.16	BA
3.908	3.909	-0.001	795169	0.10000	0.11	0.00- 20.00	293.08	BA
4.012	4.011	0.001	348234	0.10000	0.11	0.00- 20.00	128.35	BA
4.078	4.078	0.000	243609	0.10000	0.12	0.00- 20.00	89.79	BA
Average of Peak Amounts =					0.11200			

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\40GCSK.i\050318.b\050318021.D

Date : 03-MAY-2018 12:30

Client ID: 1242-CAL1B

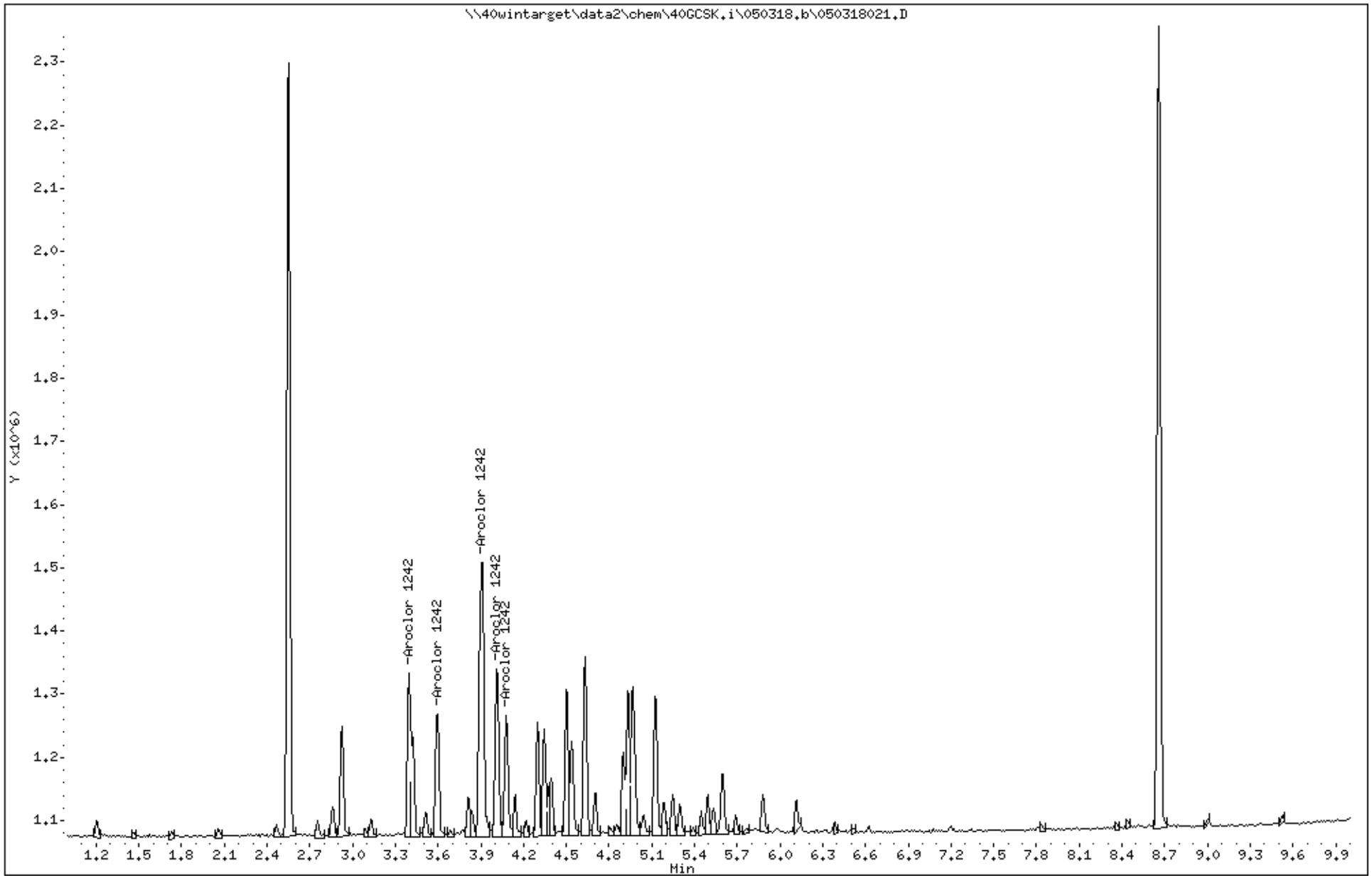
Instrument: 40GCSK.i

Sample Info: 1242-CAL1B, 188132:1

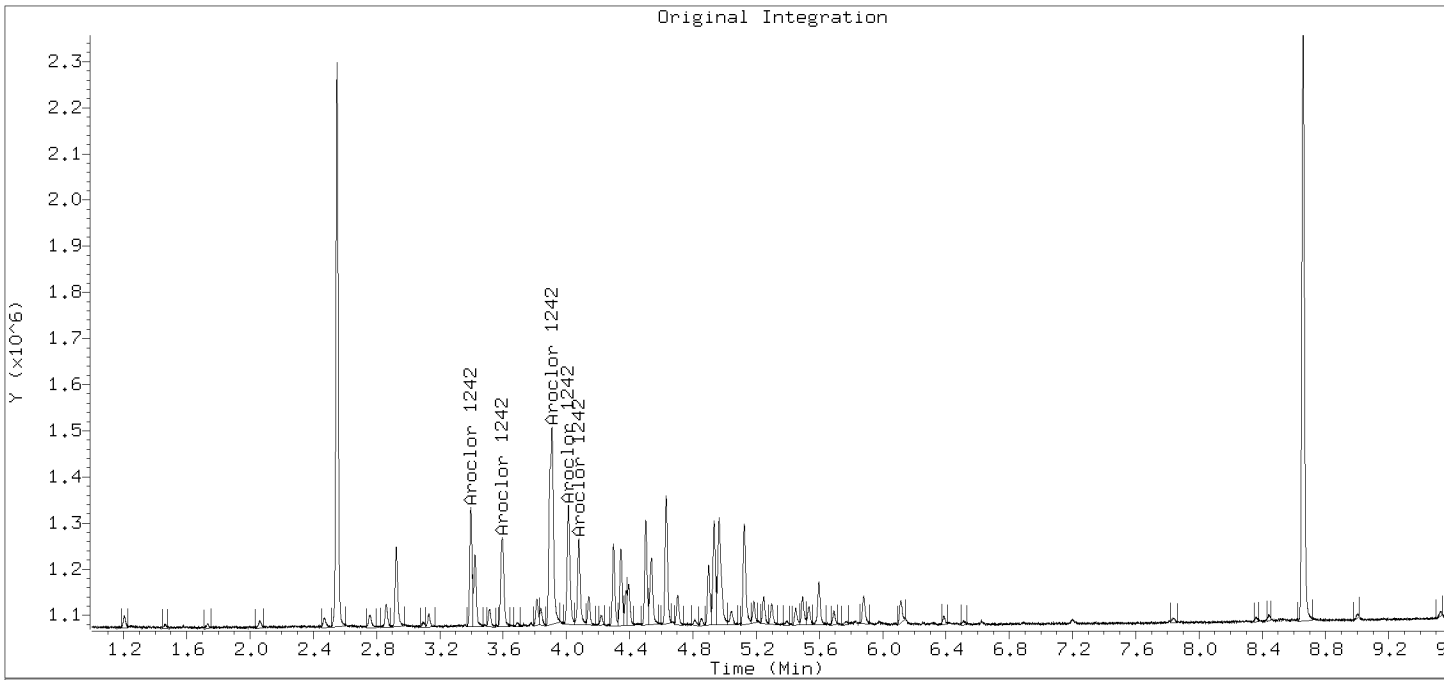
Operator: BLM

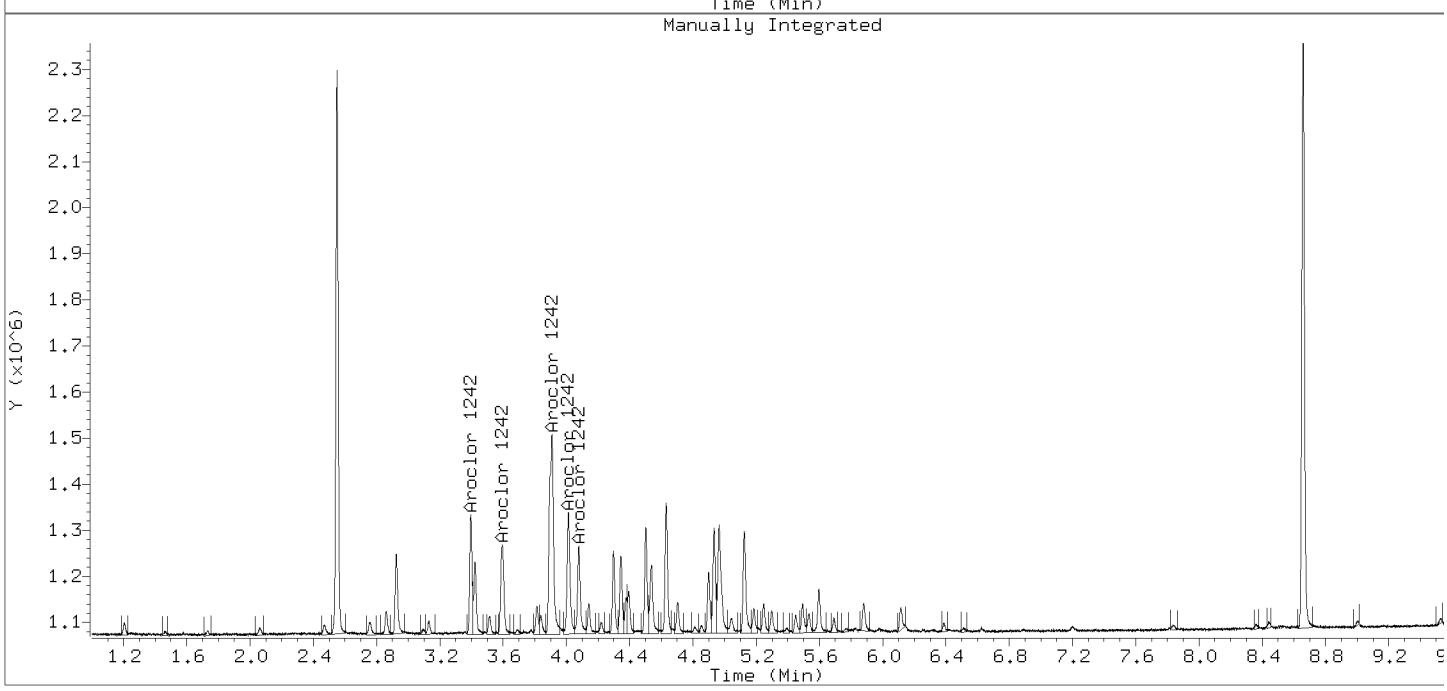
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318021.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 03-MAY-2018 12:30 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL1B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	266630	271317	BA
Aroclor 1242	266630	271317	BA
Aroclor 1242	266630	271317	BA
Aroclor 1242	266630	271317	BA
Aroclor 1242	266630	271317	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318023.D
Lab Smp Id: 1242-CAL2B Client Smp ID: 1242-CAL2B
Inj Date : 03-MAY-2018 12:47
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:37 Cal File: 050318059.D
Als bottle: 23 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
1.464	14649	15739	1.074	0.08		
2.471	49423	37457	0.758	0.30		
2.549	2274190	2222826	0.977	13.92		
2.757	59298	49463	0.834	0.36		
2.861	107792	93917	0.871	0.65		
2.924	366074	319100	0.872	2.24		
3.132	50688	50684	1.000	0.31		
3.395	511437	486930	0.952	3.13	3 Aroclor 1242	BA
3.422	318299	275470	0.865	1.94		
3.514	85914	73436	0.855	0.52		
3.593	505755	368238	0.728	3.09	3 Aroclor 1242	BA
3.691	22124	18783	0.849	0.13		
3.777	16683	16635	0.997	0.10		
3.814	123024	120611	0.980	0.75		
3.837	88882	77056	0.867	0.54		
3.909	1526951	816465	0.535	9.34	3 Aroclor 1242	BA
4.013	659070	511954	0.777	4.03	3 Aroclor 1242	BA
4.079	424297	353933	0.834	2.59	3 Aroclor 1242	BA
4.142	143319	119948	0.837	0.87		
4.220	62202	46612	0.749	0.38		
4.298	354644	321469	0.906	2.17		
4.345	340647	310741	0.912	2.08		
4.376	140407	148902	1.061	0.85		
4.394	193845	168490	0.869	1.18		
4.502	464985	444742	0.956	2.84		
4.536	380571	278161	0.731	2.33		
4.631	635535	550241	0.866	3.89		
4.703	153958	127794	0.830	0.94		
4.811	31602	24748	0.783	0.19		
4.853	39201	31885	0.813	0.24		
4.898	274672	249543	0.909	1.68		
4.933	489492	440913	0.901	2.99		
4.965	672761	440577	0.655	4.11		
5.044	93138	59818	0.642	0.57		
5.124	531689	441678	0.831	3.25		
5.185	114607	95023	0.829	0.70		
5.247	140589	118672	0.844	0.86		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.299	110275	87745	0.796	0.67	
5.397	30678	20747	0.676	0.18	
5.450	88312	70267	0.796	0.54	
5.493	143071	117784	0.823	0.87	
5.532	100118	80380	0.803	0.61	
5.596	236337	177146	0.750	1.44	
5.693	83735	58663	0.701	0.51	
5.825	25687	18045	0.703	0.15	
5.880	164087	121672	0.742	1.00	
5.976	20814	17140	0.823	0.12	
6.112	156951	103114	0.657	0.96	
6.386	46408	38183	0.823	0.28	
6.624	20340	14708	0.723	0.12	
8.365	23916	20703	0.866	0.14	
8.657	2607844	2201280	0.844	16.20	
9.528	12008	8829	0.735	0.07	
	16332993	13485060		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318023.D
Lab Smp Id: 1242-CAL2B Client Smp ID: 1242-CAL2B
Inj Date : 03-MAY-2018 12:47
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:37 Cal File: 050318059.D
Als bottle: 23 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			
3.395	3.396	-0.001	511437	0.20000	0.21	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	505754	0.20000	0.20	0.00- 20.00	98.89	BA
3.909	3.909	0.000	1526951	0.20000	0.21	0.00- 20.00	298.56	BA
4.012	4.011	0.001	659069	0.20000	0.21	0.00- 20.00	128.87	BA
4.079	4.078	0.001	424296	0.20000	0.20	0.00- 20.00	82.96	BA
Average of Peak Amounts =					0.20600			

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\40GCSK.i\050318.b\050318023.D

Date : 03-MAY-2018 12:47

Client ID: 1242-CAL2B

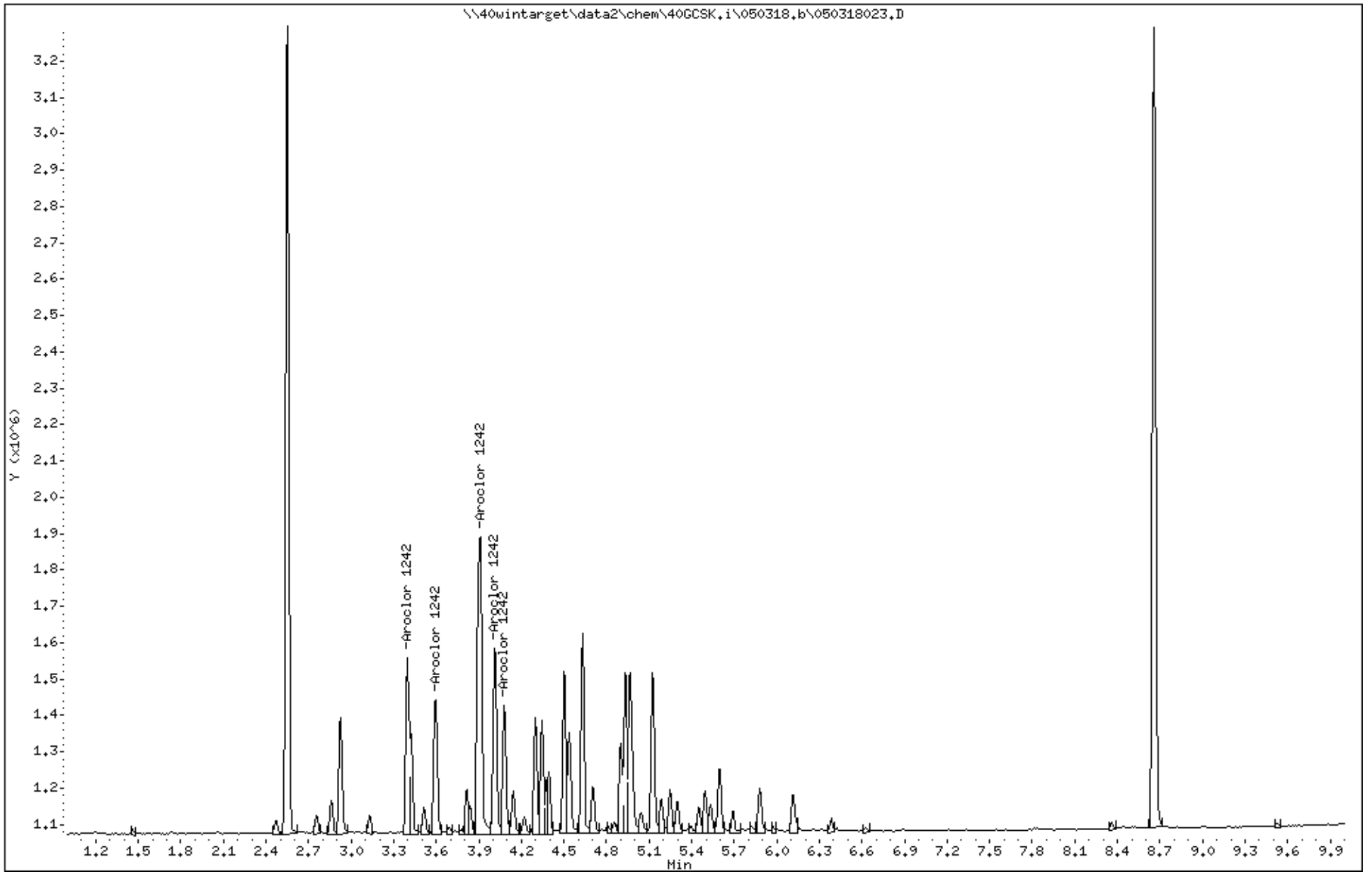
Instrument: 40GCSK.i

Sample Info: 1242-CAL2B, 185543:1

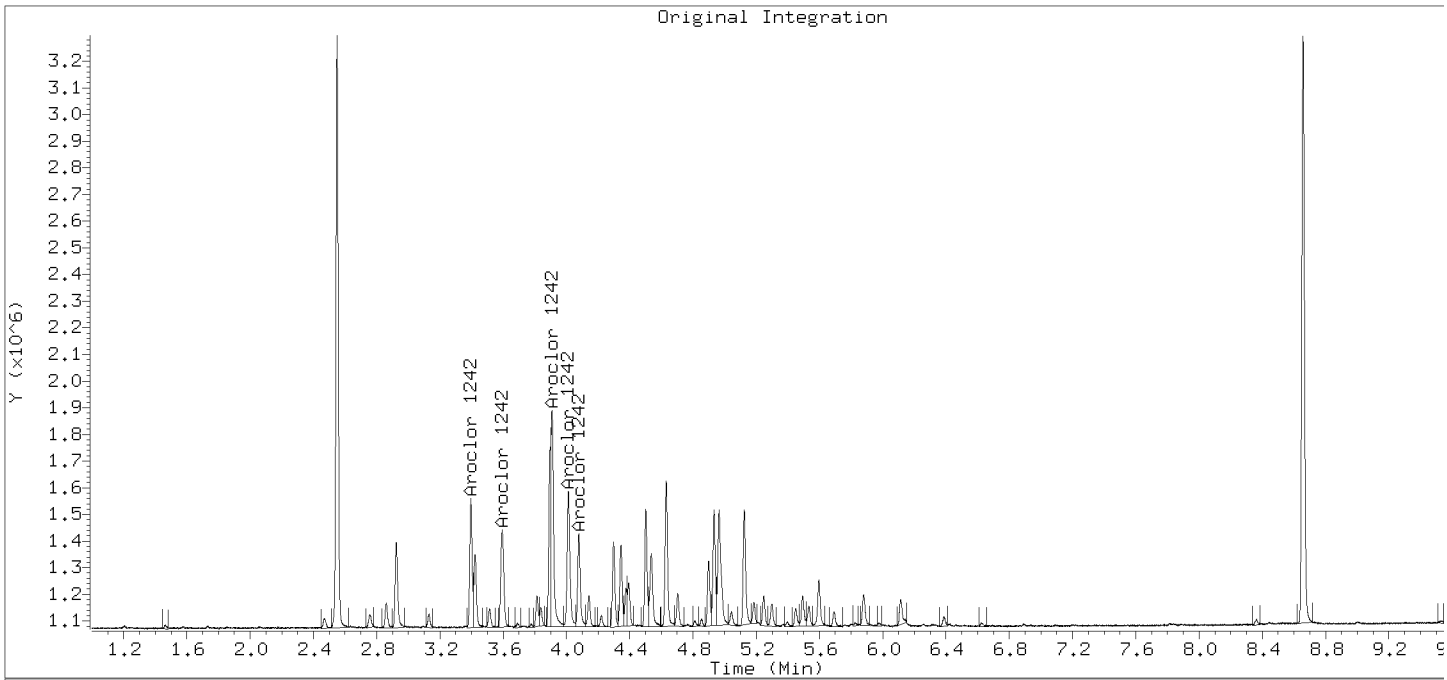
Operator: BLM

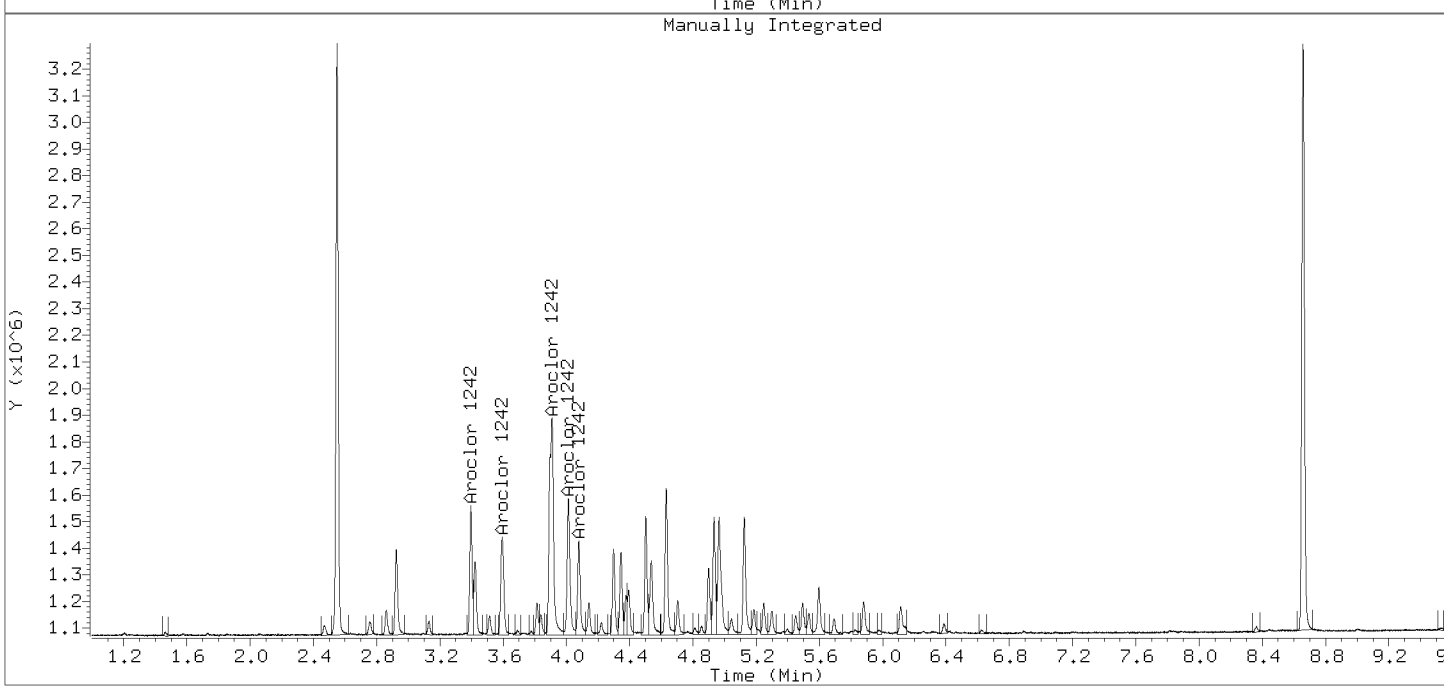
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318023.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 03-MAY-2018 12:47 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL2B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	505159	511437	BA
Aroclor 1242	505159	511437	BA
Aroclor 1242	505159	511437	BA
Aroclor 1242	505159	511437	BA
Aroclor 1242	505159	511437	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318025.D
Lab Smp Id: 1242-CAL3B Client Smp ID: 1242-CAL3B
Inj Date : 03-MAY-2018 13:03
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 25 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
1.464	36109	29390	0.814	0.09		
1.577	17570	13264	0.755	0.04		
1.732	22565	22197	0.984	0.05		
1.853	15636	12674	0.811	0.04		
2.470	107240	85034	0.793	0.27		
2.550	5373427	5272608	0.981	13.88		
2.757	160252	120751	0.754	0.41		
2.861	240218	219994	0.916	0.62		
2.924	854724	776167	0.908	2.20		
3.131	122467	113514	0.927	0.31		
3.357	16829	13693	0.814	0.04		
3.396	1187004	1105235	0.931	3.06	3 Aroclor 1242	BA
3.422	733284	656098	0.895	1.89		
3.514	200804	168597	0.840	0.51		
3.594	1206783	859165	0.712	3.11	3 Aroclor 1242	BA
3.692	42963	38085	0.886	0.11		
3.777	33371	31077	0.931	0.08		
3.813	293567	275041	0.937	0.75		
3.838	215591	179729	0.834	0.55		
3.909	3526828	1931596	0.548	9.11	3 Aroclor 1242	BA
4.013	1515409	1175144	0.775	3.91	3 Aroclor 1242	BA
4.078	1011699	870189	0.860	2.61	3 Aroclor 1242	BA
4.143	314271	264691	0.842	0.81		
4.221	122545	103040	0.841	0.31		
4.299	833210	768589	0.922	2.15		
4.345	796259	756180	0.950	2.05		
4.377	331660	342105	1.031	0.85		
4.394	432589	393337	0.909	1.11		
4.503	1080671	1019980	0.944	2.79		
4.538	903231	652746	0.723	2.33		
4.631	1465573	1258714	0.859	3.78		
4.705	339379	294063	0.866	0.87		
4.765	25178	22205	0.882	0.06		
4.813	72301	56258	0.778	0.18		
4.854	83279	69878	0.839	0.21		
4.899	667021	629728	0.944	1.72		
4.933	1168358	1092256	0.935	3.01		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.965	1578281	1091812	0.692	4.07	
5.045	188576	133516	0.708	0.48	
5.125	1264080	1092087	0.864	3.26	
5.185	289128	218852	0.757	0.74	
5.248	320707	274094	0.855	0.82	
5.298	246629	204208	0.828	0.63	
5.396	60762	45527	0.749	0.15	
5.450	213121	170450	0.800	0.55	
5.494	340669	279806	0.821	0.88	
5.533	223238	186005	0.833	0.57	
5.597	567142	429627	0.758	1.46	
5.692	169309	142761	0.843	0.43	
5.761	22636	14758	0.652	0.05	
5.801	33667	25404	0.755	0.08	
5.826	44942	38892	0.865	0.11	
5.879	404335	301417	0.745	1.04	
5.979	60372	36140	0.599	0.15	
6.075	12373	11271	0.911	0.03	
6.113	327320	277646	0.848	0.84	
6.139	71329	59581	0.835	0.18	
6.257	15396	15571	1.011	0.03	
6.387	104225	90323	0.867	0.26	
6.422	21426	21350	0.996	0.05	
6.460	12735	12216	0.959	0.03	
6.627	37715	31071	0.824	0.09	
6.888	23492	19668	0.837	0.06	
7.092	11128	10293	0.925	0.02	
7.200	12925	11083	0.857	0.03	
7.339	9974	8312	0.833	0.02	
7.812	12761	13476	1.056	0.03	
7.833	14388	11470	0.797	0.03	
7.887	10128	9106	0.899	0.02	
8.360	57092	43847	0.768	0.14	
8.441	36772	23983	0.652	0.09	
8.658	6190065	5253397	0.849	16.41	
9.002	49566	33389	0.674	0.12	
9.528	69980	44330	0.633	0.18	
	38698250	32379751		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318025.D
Lab Smp Id: 1242-CAL3B Client Smp ID: 1242-CAL3B
Inj Date : 03-MAY-2018 13:03
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 25 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			
3.395	3.396	-0.001	1187003	0.50000	0.49	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1206782	0.50000	0.49	0.00- 20.00	101.67	BA
3.908	3.909	-0.001	3526828	0.50000	0.49	0.00- 20.00	297.12	BA
4.012	4.011	0.001	1515408	0.50000	0.49	0.00- 20.00	127.67	BA
4.077	4.078	-0.001	1011699	0.50000	0.48	0.00- 20.00	85.23	BA
Average of Peak Amounts =					0.48800			

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\40GCSK.i\050318.b\050318025.D

Date : 03-MAY-2018 13:03

Client ID: 1242-CAL3B

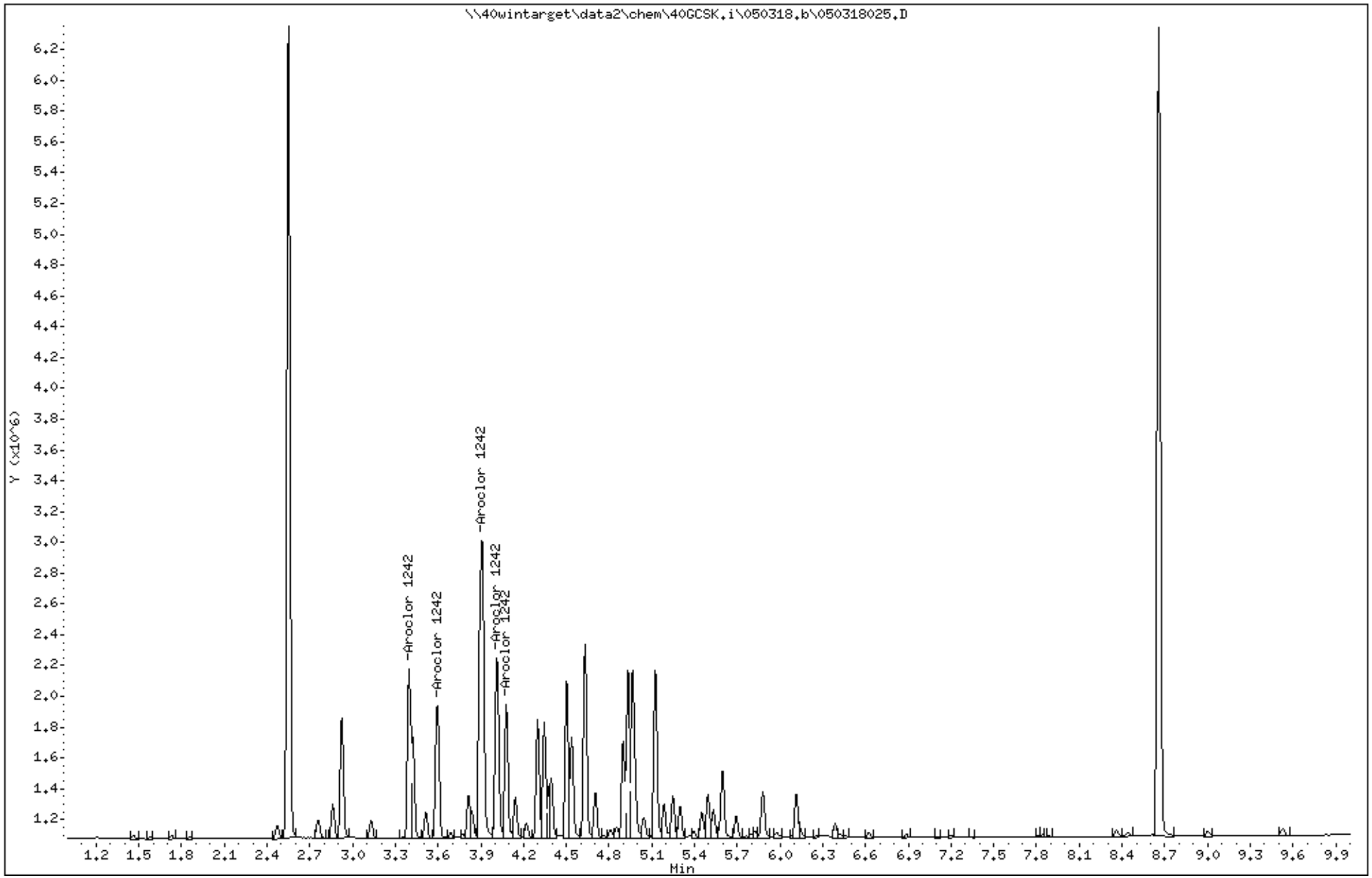
Instrument: 40GCSK.i

Sample Info: 1242-CAL3B, 185544:1

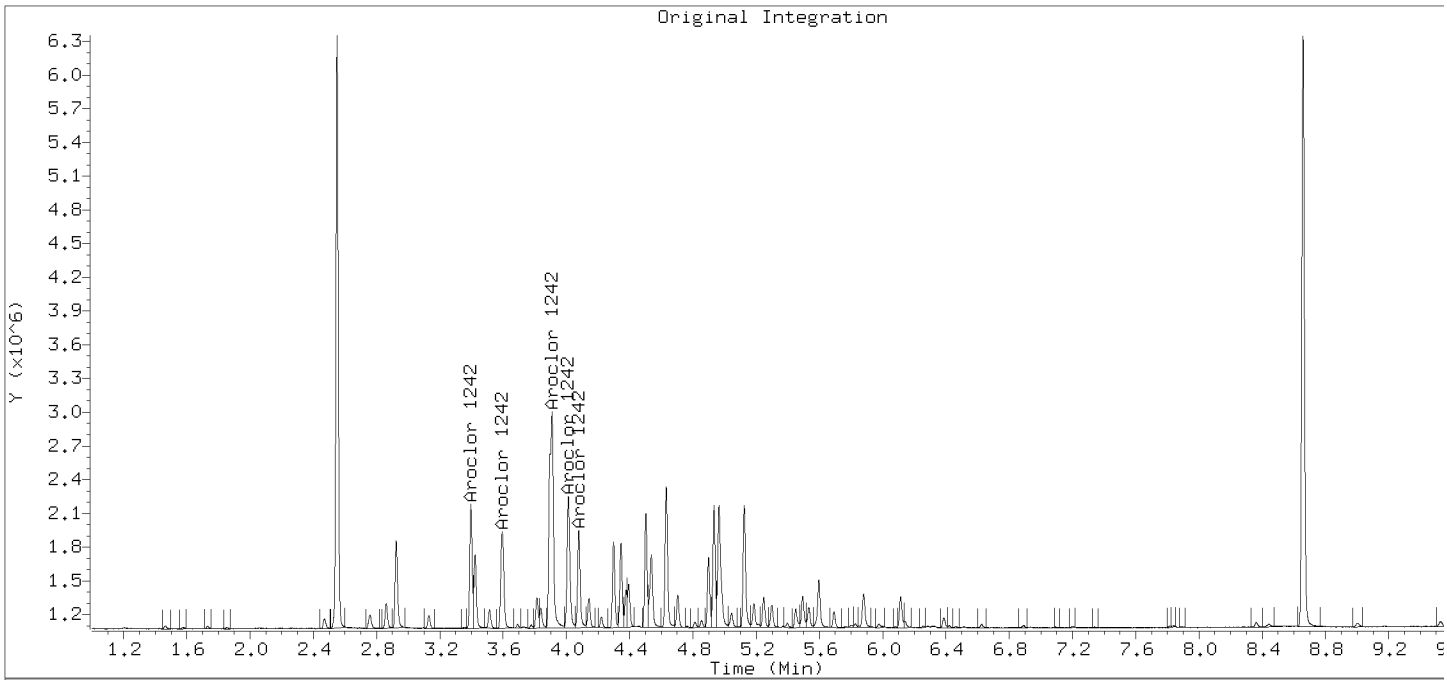
Operator: BLM

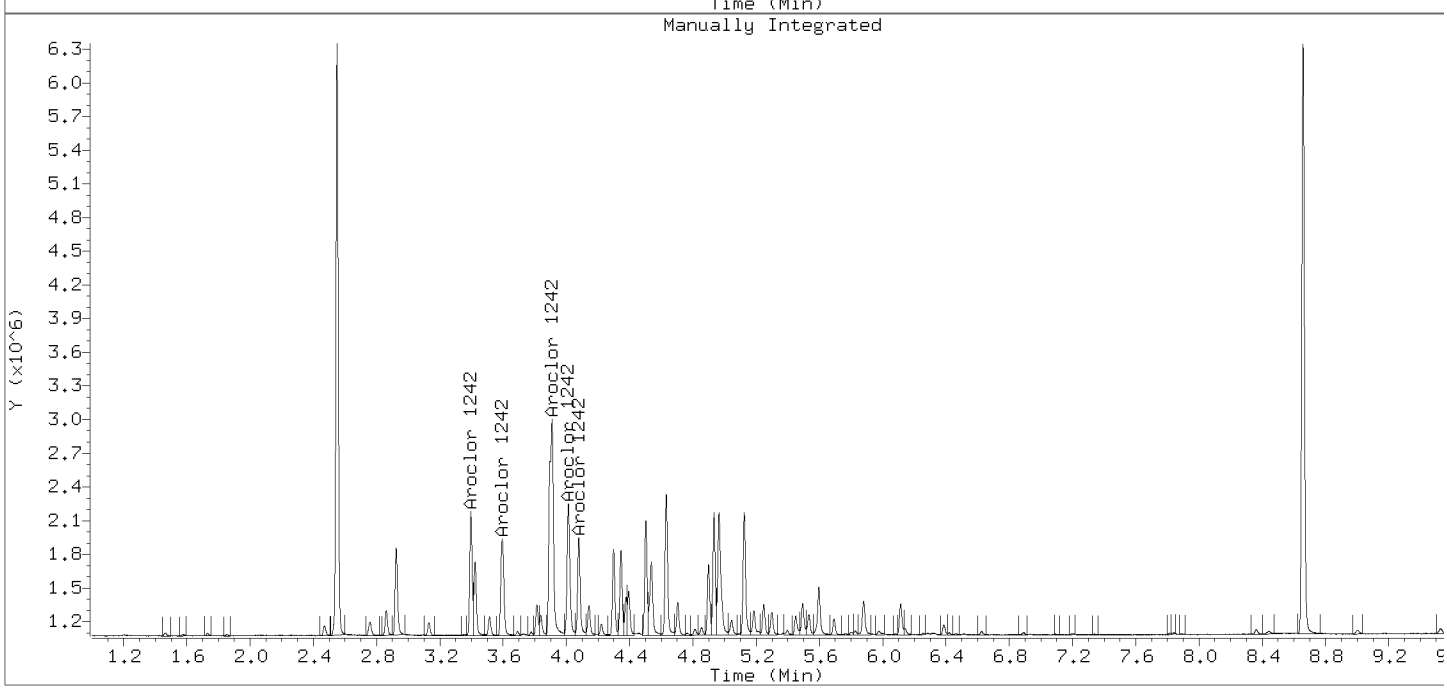
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318025.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 03-MAY-2018 13:03 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL3B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1180166	1187003	BA
Aroclor 1242	1180166	1187003	BA
Aroclor 1242	1180166	1187003	BA
Aroclor 1242	1180166	1187003	BA
Aroclor 1242	1180166	1187003	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318027.D
Lab Smp Id: 1242-CAL4B Client Smp ID: 1242-CAL4B
Inj Date : 03-MAY-2018 13:19
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:09 Cal File: 050318063.D
Als bottle: 27 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
1.465	60514	55156	0.911	0.09		
1.575	25952	23700	0.913	0.04		
1.728	13457	10946	0.813	0.02		
1.856	18735	16740	0.894	0.02		
2.469	167542	131609	0.786	0.26		
2.550	10660062	10587607	0.993	16.69		
2.756	239331	183200	0.765	0.37		
2.861	395829	362673	0.916	0.61		
2.924	1337379	1200613	0.898	2.09		
3.130	191519	181482	0.948	0.29		
3.359	25907	20403	0.788	0.04		
3.396	1787981	1666887	0.932	2.79	3 Aroclor 1242	BA
3.423	1136978	989208	0.870	1.78		
3.514	304577	259148	0.851	0.47		
3.594	1833397	1304804	0.712	2.87	3 Aroclor 1242	BA
3.691	74323	66343	0.893	0.11		
3.726	28410	21182	0.746	0.04		
3.777	49639	45707	0.921	0.07		
3.812	447878	437314	0.976	0.70		
3.838	323283	272408	0.843	0.50		
3.909	5446178	3043624	0.559	8.52	3 Aroclor 1242	BA
4.012	2321978	1792602	0.772	3.63	3 Aroclor 1242	BA
4.078	1556061	1341784	0.862	2.43	3 Aroclor 1242	BA
4.142	478186	415643	0.869	0.74		
4.221	188956	155892	0.825	0.29		
4.298	1262038	1167731	0.925	1.97		
4.344	1228678	1146059	0.933	1.92		
4.377	506635	529324	1.045	0.79		
4.393	691265	606012	0.877	1.08		
4.459	36995	27836	0.752	0.05		
4.502	1653016	1536700	0.930	2.58		
4.537	1403894	986711	0.703	2.19		
4.631	2232731	1899618	0.851	3.49		
4.704	523805	454989	0.869	0.82		
4.767	40176	27923	0.695	0.06		
4.812	107315	87825	0.818	0.16		
4.855	122118	107057	0.877	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.899	1033282	957745	0.927	1.61	
4.933	1804528	1656910	0.918	2.82	
4.964	2402398	1674801	0.697	3.76	
5.044	313727	198377	0.632	0.49	
5.124	1959567	1697502	0.866	3.06	
5.185	437742	324713	0.742	0.68	
5.247	490551	427987	0.872	0.76	
5.298	377637	318016	0.842	0.59	
5.369	30798	26768	0.869	0.04	
5.396	82500	64641	0.784	0.12	
5.450	306041	245026	0.801	0.47	
5.494	517930	446784	0.863	0.81	
5.533	343921	287631	0.836	0.53	
5.596	864584	658164	0.761	1.35	
5.691	252575	217343	0.861	0.39	
5.802	45108	35289	0.782	0.07	
5.829	83967	57099	0.680	0.13	
5.878	617319	484921	0.786	0.96	
5.977	87897	52377	0.596	0.13	
6.080	14635	16299	1.114	0.02	
6.113	575887	426889	0.741	0.90	
6.258	32993	26937	0.816	0.05	
6.316	39520	21996	0.557	0.06	
6.386	158251	137570	0.869	0.24	
6.420	34658	30860	0.890	0.05	
6.461	24448	19090	0.781	0.03	
6.625	63982	51809	0.810	0.10	
6.889	38833	32055	0.825	0.06	
6.931	17083	10823	0.634	0.02	
7.093	14332	12985	0.906	0.02	
7.341	13736	11525	0.839	0.02	
7.814	29645	27534	0.929	0.04	
7.889	18599	14104	0.758	0.02	
8.361	97272	80574	0.828	0.15	
8.657	11688708	9932087	0.850	18.66	
9.001	14668	13204	0.900	0.02	
9.169	12118	9360	0.772	0.01	
	63864158	53872255		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318027.D
Lab Smp Id: 1242-CAL4B Client Smp ID: 1242-CAL4B
Inj Date : 03-MAY-2018 13:19
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:09 Cal File: 050318063.D
Als bottle: 27 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			
3.395	3.396	-0.001	1787980	0.80000	0.74	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1833396	0.80000	0.74	0.00- 20.00	102.54	BA
3.908	3.909	-0.001	5446177	0.80000	0.75	0.00- 20.00	304.60	BA
4.011	4.011	0.000	2321978	0.80000	0.74	0.00- 20.00	129.87	BA
4.077	4.078	-0.001	1556061	0.80000	0.74	0.00- 20.00	87.03	BA
Average of Peak Amounts =					0.74200			

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\40GCSK.i\050318.b\050318027.D

Date : 03-MAY-2018 13:19

Client ID: 1242-CAL4B

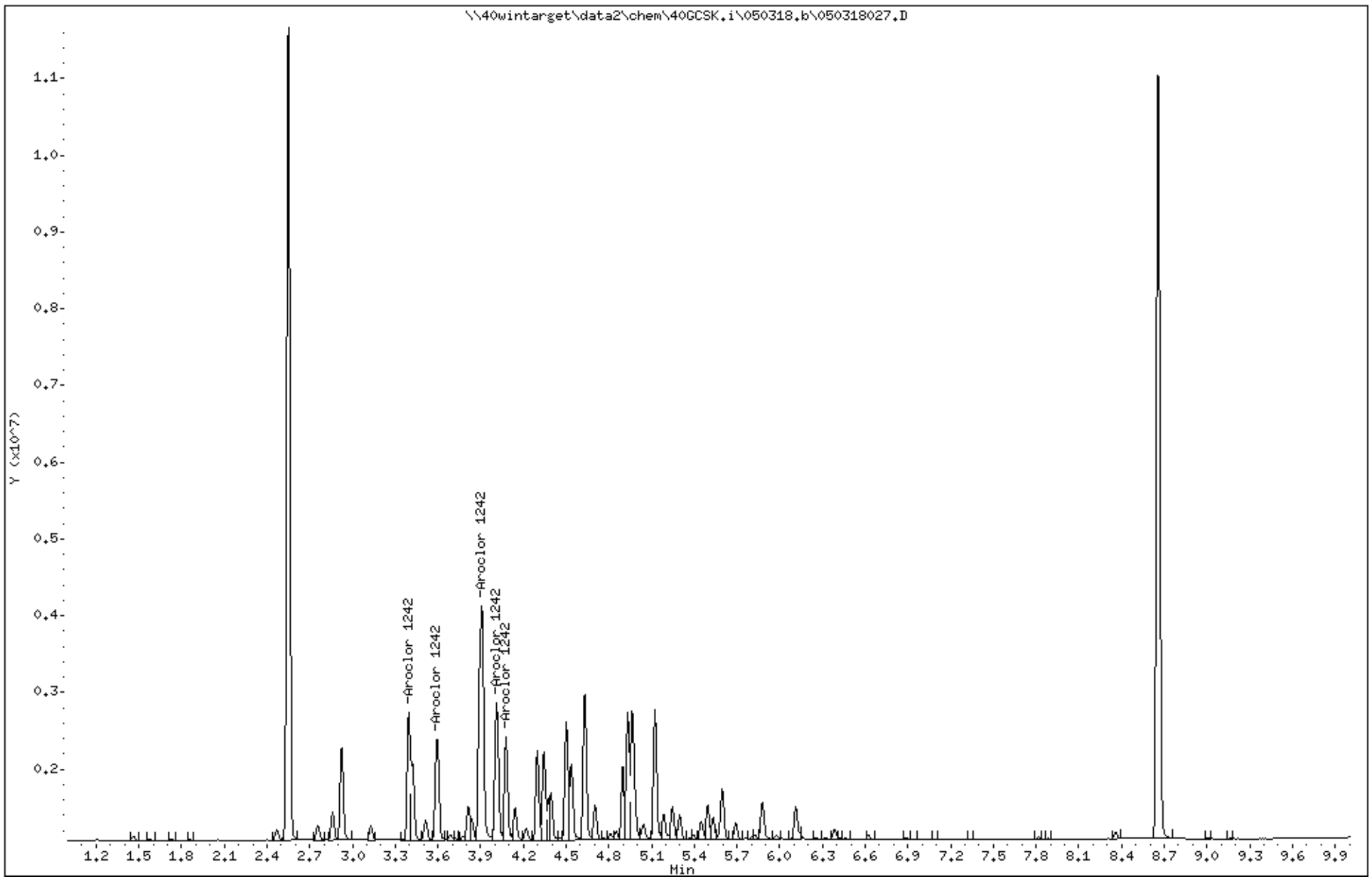
Instrument: 40GCSK.i

Sample Info: 1242-CAL4B, 185545:1

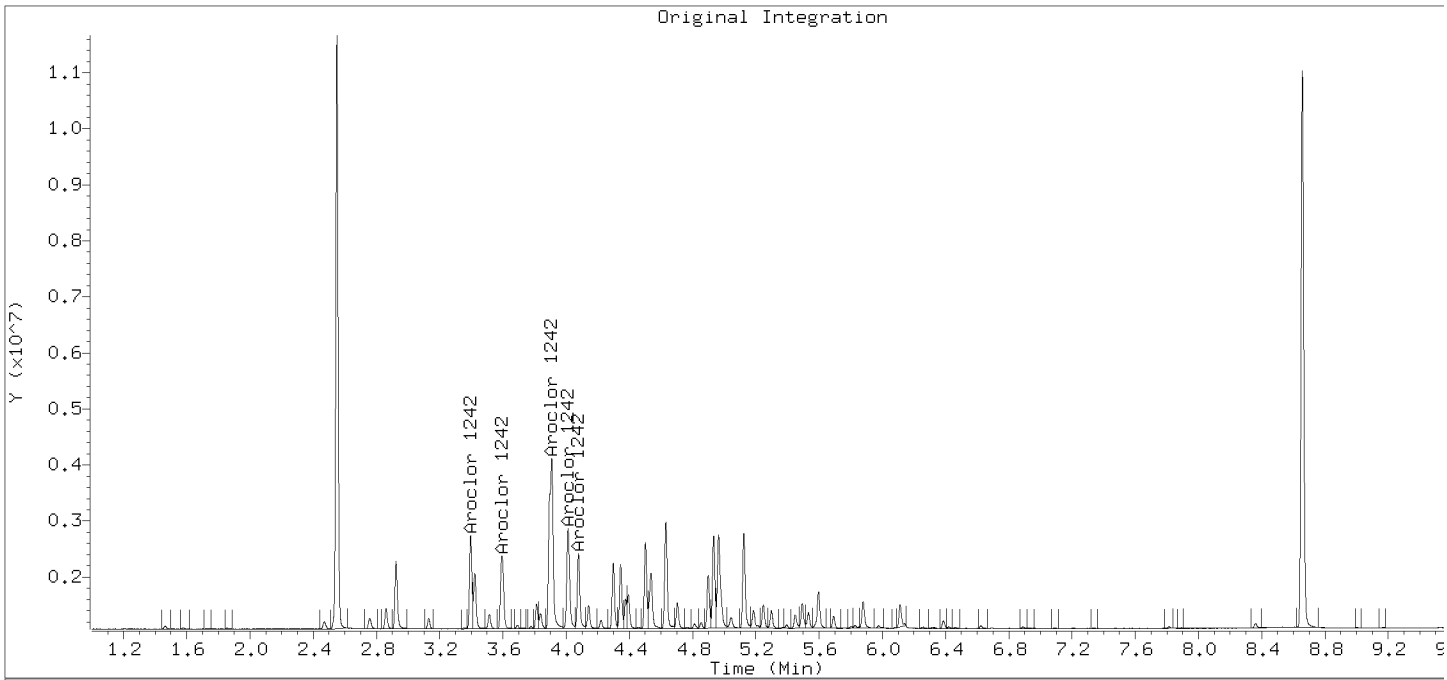
Operator: BLM

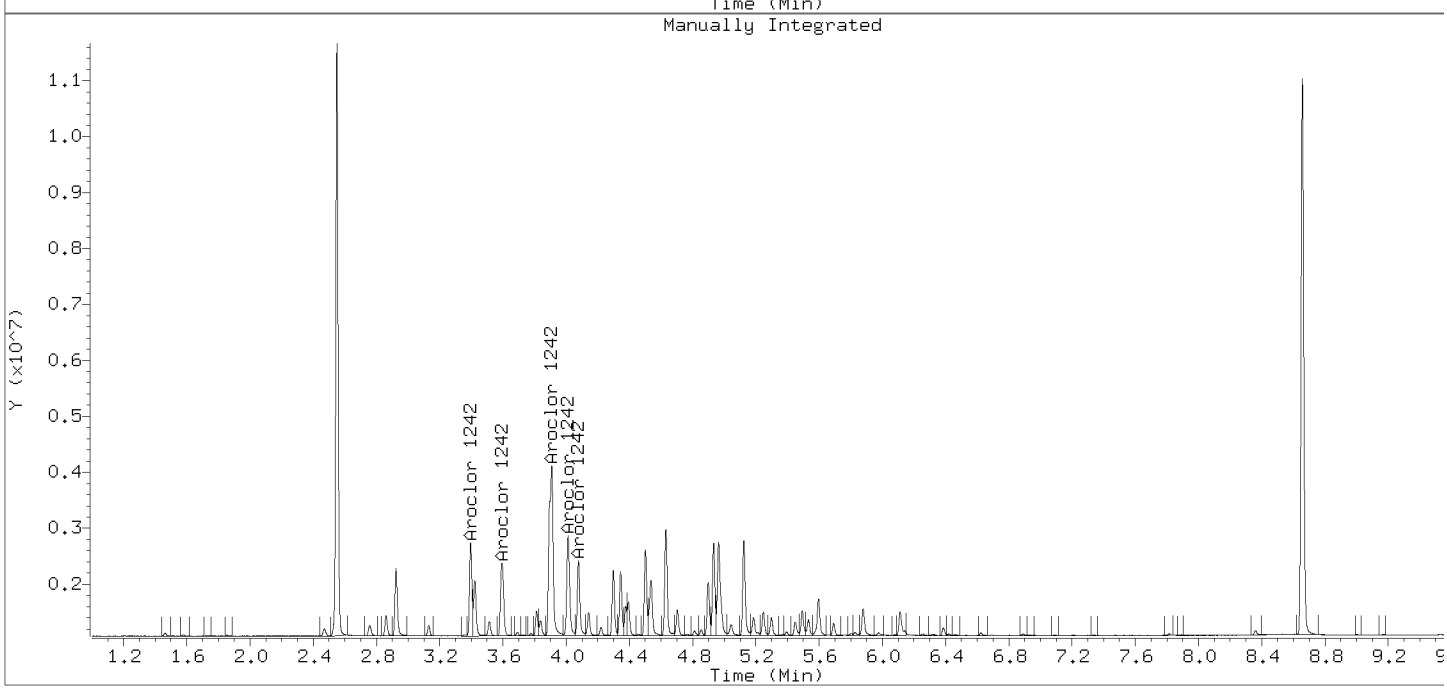
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318027.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 03-MAY-2018 13:19 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL4B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1778846	1787980	BA
Aroclor 1242	1778846	1787980	BA
Aroclor 1242	1778846	1787980	BA
Aroclor 1242	1778846	1787980	BA
Aroclor 1242	1778846	1787980	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318029.D
Lab Smp Id: 1242-CAL5B Client Smp ID: 1242-CAL5B
Inj Date : 03-MAY-2018 13:35
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 29 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
1.464	87531	83646	0.956	0.10		
1.578	35805	34315	0.958	0.04		
1.732	15679	12163	0.776	0.01		
1.855	24302	19570	0.805	0.02		
2.471	203158	162843	0.802	0.23		
2.550	16329389	16290698	0.998	19.04		
2.757	286380	230287	0.804	0.33		
2.860	531580	489727	0.921	0.62		
2.923	1654046	1488018	0.900	1.92		
3.130	254848	231681	0.909	0.29		
3.359	31266	24822	0.794	0.03		
3.395	2222470	2071587	0.932	2.59	3 Aroclor 1242	BA
3.422	1395758	1224845	0.878	1.62		
3.514	369687	319496	0.864	0.43		
3.593	2273072	1617162	0.711	2.65	3 Aroclor 1242	BA
3.689	104504	98296	0.941	0.12		
3.729	37761	26071	0.690	0.04		
3.777	60112	60157	1.001	0.07		
3.813	571368	556940	0.975	0.66		
3.837	395106	355294	0.899	0.46		
3.908	6829835	3810299	0.558	7.96	3 Aroclor 1242	BA
4.011	2870213	2260626	0.788	3.34	3 Aroclor 1242	BA
4.078	1940441	1695805	0.874	2.26	3 Aroclor 1242	BA
4.142	601792	514929	0.856	0.70		
4.222	225460	190516	0.845	0.26		
4.298	1562298	1444095	0.924	1.82		
4.345	1519594	1392967	0.917	1.77		
4.377	655685	659586	1.006	0.76		
4.394	844160	742636	0.880	0.98		
4.458	48177	34398	0.714	0.05		
4.502	2048545	1919475	0.937	2.38		
4.538	1741031	1223200	0.703	2.03		
4.631	2790019	2419030	0.867	3.25		
4.704	653243	590348	0.904	0.76		
4.765	53073	34536	0.651	0.06		
4.813	132307	107918	0.816	0.15		
4.854	150924	136331	0.903	0.17		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.898	1301368	1223489	0.940	1.51	
4.933	2251462	2097712	0.932	2.62	
4.964	2994388	2044109	0.683	3.49	
5.044	362473	251885	0.695	0.42	
5.124	2450807	2122958	0.866	2.85	
5.185	547551	412043	0.753	0.63	
5.247	617846	528806	0.856	0.72	
5.297	475698	395749	0.832	0.55	
5.370	33548	32346	0.964	0.03	
5.396	104016	82633	0.794	0.12	
5.450	377912	318204	0.842	0.44	
5.493	654122	560050	0.856	0.76	
5.533	421698	350354	0.831	0.49	
5.596	1098817	843400	0.768	1.28	
5.691	315329	270777	0.859	0.36	
5.760	23894	18398	0.770	0.02	
5.802	53052	45750	0.862	0.06	
5.827	84030	70693	0.841	0.09	
5.850	26962	34364	1.275	0.03	
5.878	774376	618629	0.799	0.90	
5.975	111151	64816	0.583	0.12	
6.077	18582	19337	1.041	0.02	
6.113	638847	551521	0.863	0.74	
6.141	135636	106907	0.788	0.15	
6.256	40211	34962	0.869	0.04	
6.314	31074	21731	0.699	0.03	
6.386	201814	178114	0.883	0.23	
6.423	44627	35217	0.789	0.05	
6.460	26671	23681	0.888	0.03	
6.626	81117	64224	0.792	0.09	
6.692	15739	11328	0.720	0.01	
6.889	47286	39025	0.825	0.05	
6.933	14363	12319	0.858	0.01	
7.091	16199	14781	0.912	0.01	
7.815	52767	42078	0.797	0.06	
7.885	26113	21104	0.808	0.03	
8.362	140636	122143	0.869	0.16	
8.657	17488631	14955055	0.855	20.76	
9.006	21100	13165	0.624	0.02	
9.175	26186	18987	0.725	0.03	
9.530	22980	14449	0.629	0.02	
	85721697	73261606		100.000	

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318029.D
Lab Smp Id: 1242-CAL5B Client Smp ID: 1242-CAL5B
Inj Date : 03-MAY-2018 13:35
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17762,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 29 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			
3.395	3.396	-0.001	2222470	1.00000	0.92	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	2273072	1.00000	0.92	0.00- 20.00	102.28	BA
3.908	3.909	-0.001	6829835	1.00000	0.94	0.00- 20.00	307.31	BA
4.011	4.011	0.000	2870213	1.00000	0.92	0.00- 20.00	129.15	BA
4.077	4.078	-0.001	1940441	1.00000	0.93	0.00- 20.00	87.31	BA
Average of Peak Amounts =					0.92600			

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\40GCSK.i\050318.b\050318029.D

Date : 03-MAY-2018 13:35

Client ID: 1242-CAL5B

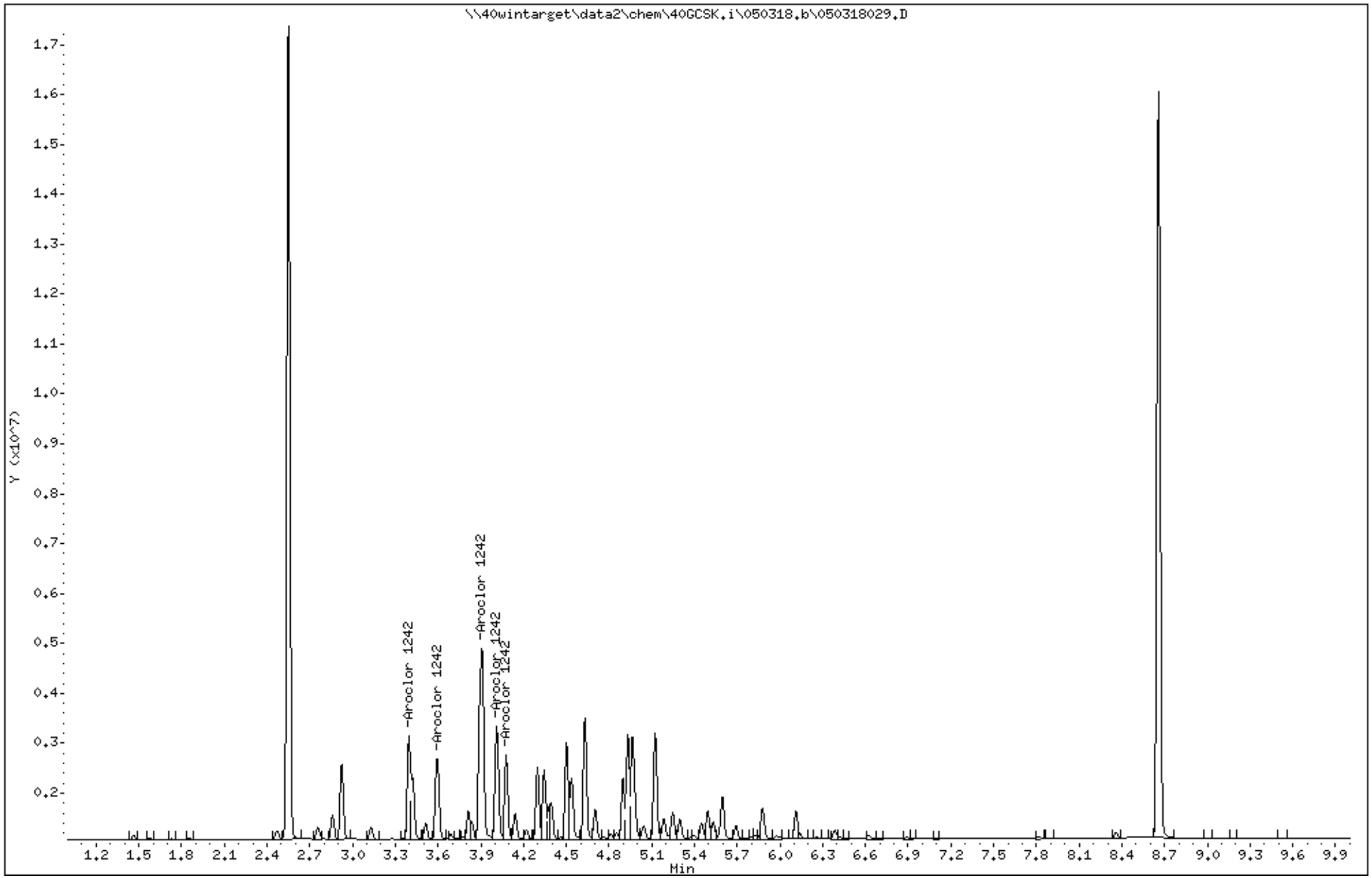
Instrument: 40GCSK.i

Sample Info: 1242-CAL5B, 185546:1

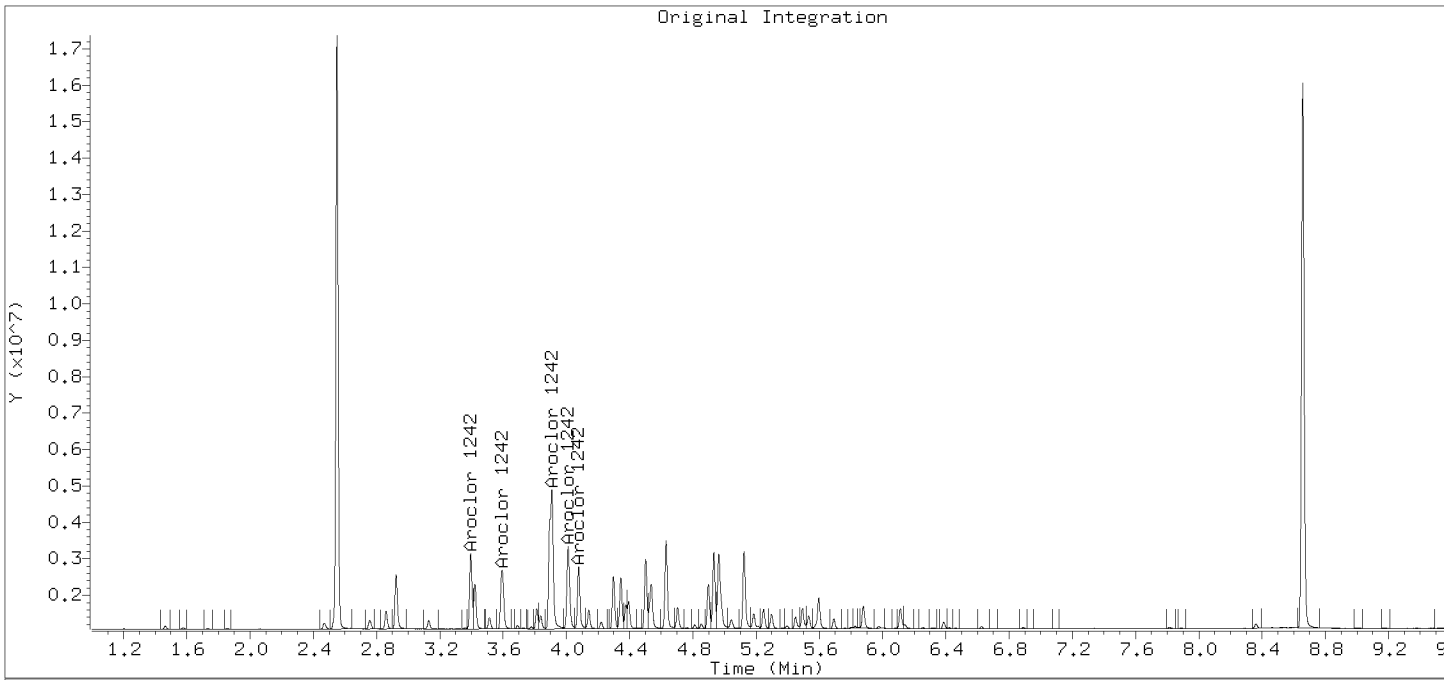
Operator: BLM

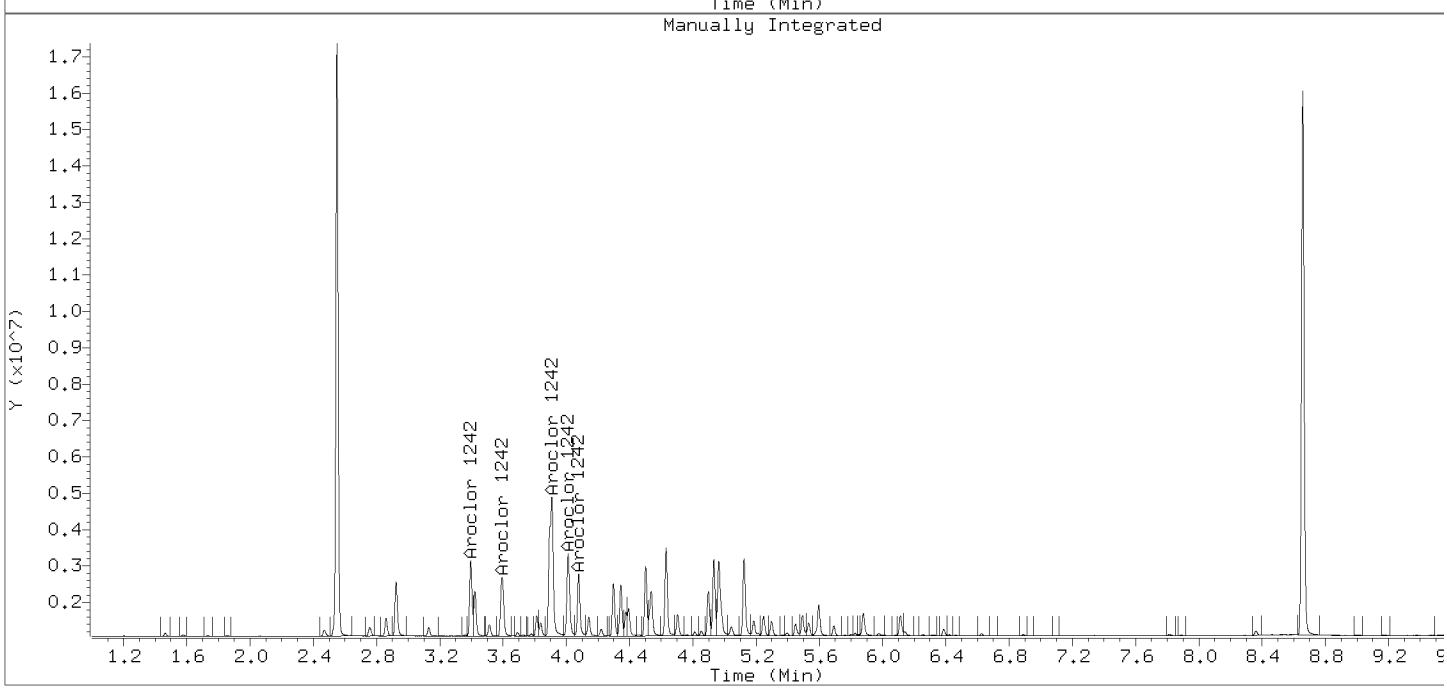
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318029.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 03-MAY-2018 13:35 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL5B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	2210979	2222470	BA
Aroclor 1242	2210979	2222470	BA
Aroclor 1242	2210979	2222470	BA
Aroclor 1242	2210979	2222470	BA
Aroclor 1242	2210979	2222470	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318033.D
Lab Smp Id: 1248-CAL1D Client Smp ID: 1248-CAL1D
Inj Date : 03-MAY-2018 14:07
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:21 Cal File: 050318057.D
Als bottle: 33 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
1.203	12925	10305	0.797	0.13		
2.062	12012	8905	0.741	0.12		
2.549	1113172	1107544	0.995	11.90		
2.861	24893	20023	0.804	0.26		
2.925	39001	29584	0.759	0.41		
3.130	14945	12381	0.828	0.15		
3.396	142285	135259	0.951	1.52		
3.421	65898	57305	0.870	0.70		
3.513	13172	13059	0.991	0.14		
3.595	114009	82967	0.728	1.21		
3.814	27506	23533	0.856	0.29		
3.895	184719	212092	1.148	1.97		
3.909	286513	226681	0.791	3.06		
4.015	185351	131334	0.709	1.98		
4.077	127407	95067	0.746	1.36		
4.142	70598	64208	0.909	0.75		
4.221	29613	27426	0.926	0.31		
4.298	310554	283751	0.914	3.32		
4.345	245624	224712	0.915	2.62	6 Aroclor 1248	BA
4.376	99557	98515	0.990	1.06		
4.394	120200	105607	0.879	1.28		
4.502	366502	339423	0.926	3.91		
4.538	198553	153927	0.775	2.12		
4.631	429109	376264	0.877	4.58	6 Aroclor 1248	BA
4.703	107629	91448	0.850	1.15		
4.855	26716	19153	0.717	0.28		
4.899	199624	183860	0.921	2.13	6 Aroclor 1248	BA
4.934	405816	365693	0.901	4.33		
4.965	564255	332391	0.589	6.03	6 Aroclor 1248	BA
5.043	82666	54771	0.663	0.88		
5.124	375350	295197	0.786	4.01	6 Aroclor 1248	BA
5.185	154713	115220	0.745	1.65		
5.248	173070	141802	0.819	1.85		
5.298	125238	102440	0.818	1.33		
5.394	28236	23625	0.837	0.30		
5.449	108995	86307	0.792	1.16		
5.493	168254	143653	0.854	1.79		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.532	114170	90123	0.789	1.22	
5.598	287538	228351	0.794	3.07	
5.693	87873	74720	0.850	0.93	
5.764	16608	12624	0.760	0.17	
5.800	16997	16503	0.971	0.18	
5.825	24196	19427	0.803	0.25	
5.878	211982	140771	0.664	2.26	
5.978	38212	17472	0.457	0.40	
6.115	173886	120932	0.695	1.85	
6.253	19549	14343	0.734	0.20	
6.388	69211	44173	0.638	0.73	
6.510	13037	9851	0.756	0.13	
6.598	12703	10208	0.804	0.13	
6.626	25862	17133	0.662	0.27	
6.881	13390	10776	0.805	0.14	
6.931	12716	8640	0.679	0.13	
7.093	20892	15262	0.731	0.22	
8.441	10422	6747	0.647	0.11	
8.658	1415876	1201691	0.849	15.43	
9.005	13135	10691	0.814	0.14	
	9352937	7865870		100.000	

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318033.D
Lab Smp Id: 1248-CAL1D Client Smp ID: 1248-CAL1D
Inj Date : 03-MAY-2018 14:07
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:21 Cal File: 050318057.D
Als bottle: 33 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			
4.344	4.343	0.001	245624	0.10000	0.10	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	429108	0.10000	0.10	0.00- 20.00	174.70	BA
4.898	4.898	0.000	199623	0.10000	0.098	0.00- 20.00	81.27	BA
4.964	4.963	0.001	564254	0.10000	0.10	0.00- 20.00	229.72	BA
5.124	5.123	0.001	375350	0.10000	0.099	0.00- 20.00	152.81	BA
			Average of Peak Amounts =		0.09940			

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\40GCSK.i\050318.b\050318033.D

Date : 03-MAY-2018 14:07

Client ID: 1248-CAL1D

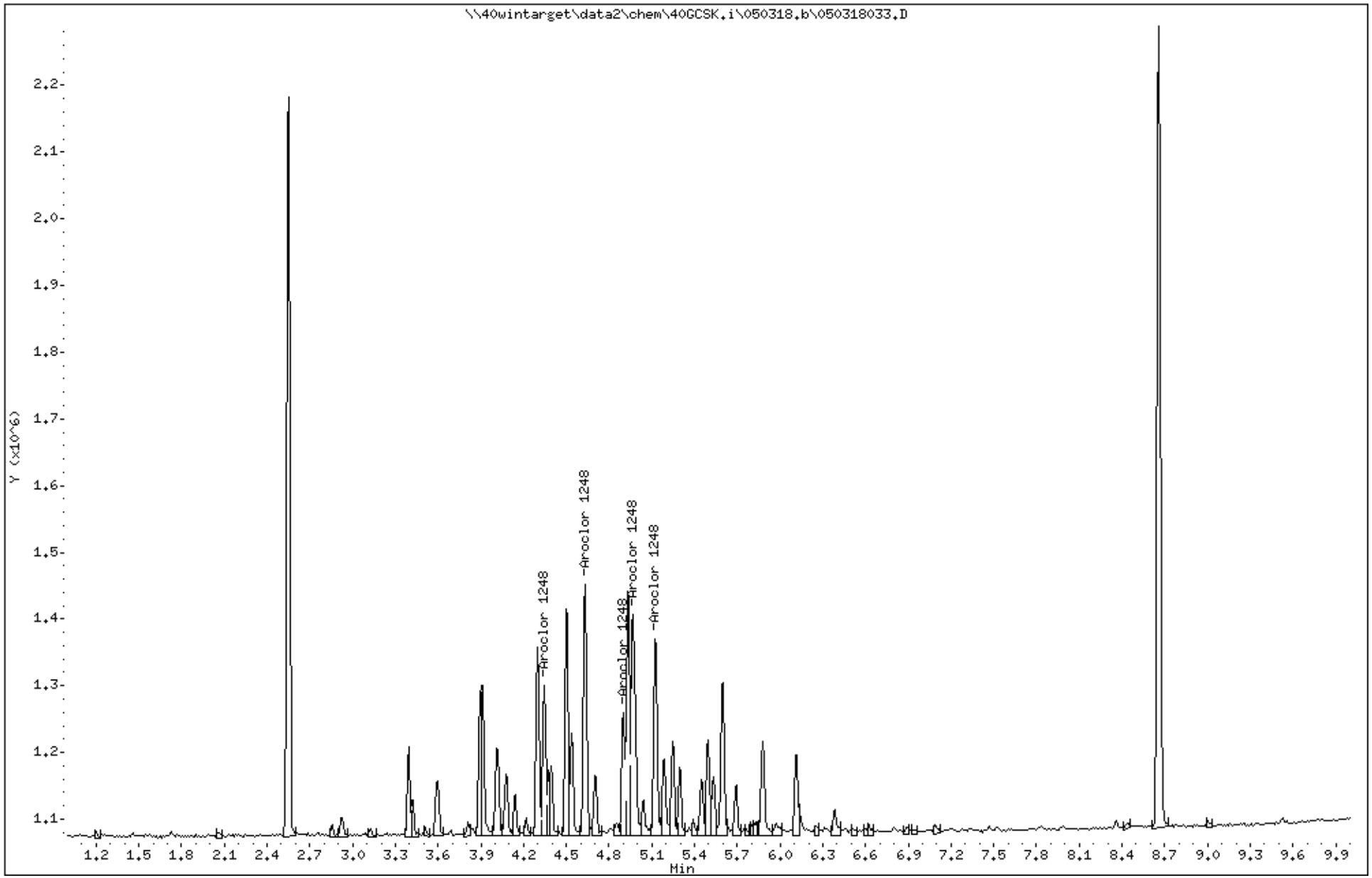
Instrument: 40GCSK.i

Sample Info: 1248-CAL1D, 188134:1

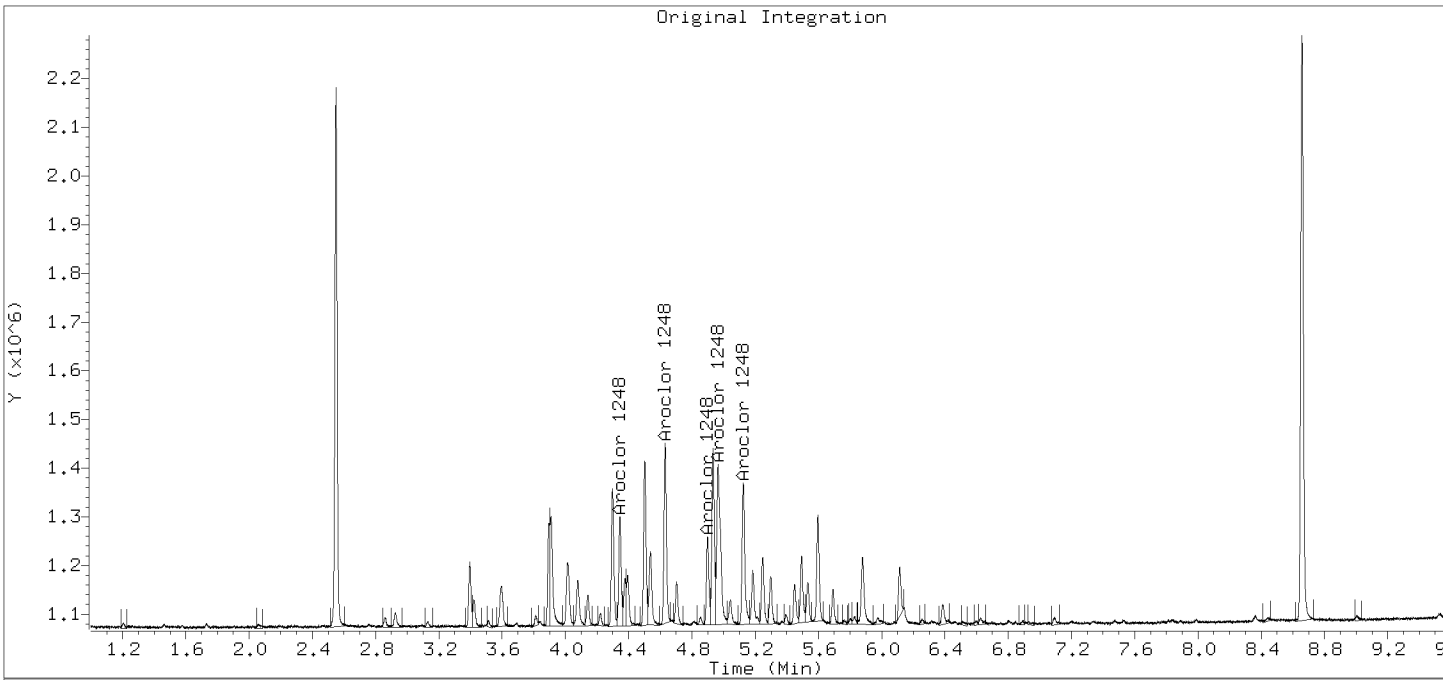
Operator: BLM

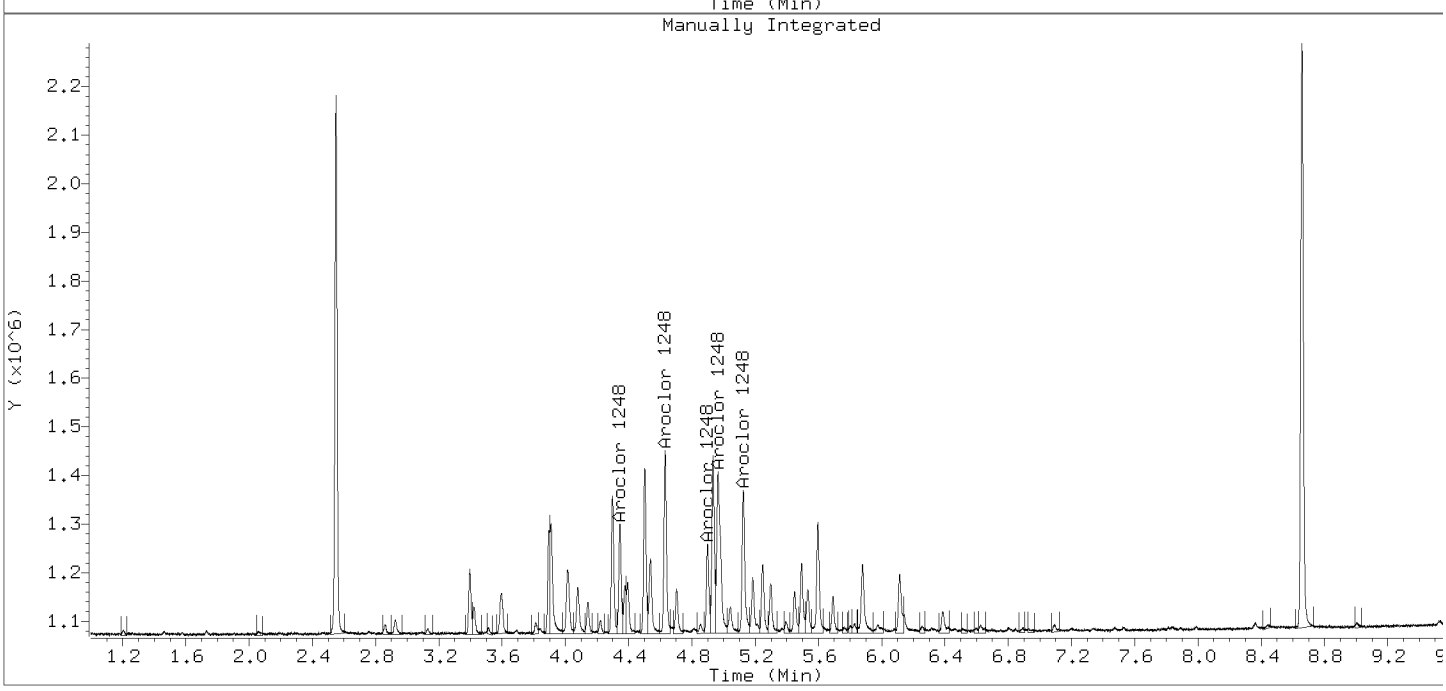
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318033.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 03-MAY-2018 14:07 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL1D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	243001	245624	BA
Aroclor 1248	243001	245624	BA
Aroclor 1248	243001	245624	BA
Aroclor 1248	243001	245624	BA
Aroclor 1248	243001	245624	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318035.D
Lab Smp Id: 1248-CAL2D Client Smp ID: 1248-CAL2D
Inj Date : 03-MAY-2018 14:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:37 Cal File: 050318059.D
Als bottle: 35 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
1.204	12193	10816	0.887	0.06		
1.464	16394	15191	0.927	0.08		
2.550	2248293	2202337	0.980	11.51		
2.755	15035	12503	0.832	0.07		
2.859	48764	41906	0.859	0.24		
2.923	72355	62082	0.858	0.37		
3.129	26567	21876	0.823	0.13		
3.396	283272	274480	0.969	1.45		
3.423	128661	118192	0.919	0.65		
3.515	28269	23363	0.826	0.14		
3.596	247124	173092	0.700	1.26		
3.692	18380	15746	0.857	0.09		
3.814	50252	46048	0.916	0.25		
3.838	21208	22100	1.042	0.10		
3.897	393131	468374	1.191	2.01		
3.909	596126	493008	0.827	3.05		
4.015	377302	270937	0.718	1.93		
4.079	250950	208377	0.830	1.28		
4.142	153960	133785	0.869	0.78		
4.221	63903	55508	0.869	0.32		
4.298	639869	602692	0.942	3.27		
4.345	507511	481250	0.948	2.59	6 Aroclor 1248	BA
4.377	210762	207443	0.984	1.07		
4.394	235056	209338	0.891	1.20		
4.502	767525	727422	0.948	3.93		
4.537	395427	317676	0.803	2.02		
4.631	912536	794821	0.871	4.67	6 Aroclor 1248	BA
4.705	214581	182874	0.852	1.09		
4.811	30867	23298	0.755	0.15		
4.853	46674	41414	0.887	0.23		
4.899	421058	393411	0.934	2.15	6 Aroclor 1248	BA
4.933	857080	791698	0.924	4.38		
4.965	1166514	708388	0.607	5.97	6 Aroclor 1248	BA
5.043	161685	112723	0.697	0.82		
5.124	790864	671710	0.849	4.04	6 Aroclor 1248	BA
5.186	303897	227973	0.750	1.55		
5.248	340096	293996	0.864	1.74		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.298	266434	213027	0.800	1.36	
5.370	20296	17916	0.883	0.10	
5.396	58148	46967	0.808	0.29	
5.449	211598	177386	0.838	1.08	
5.494	346381	294474	0.850	1.77	
5.533	226532	189201	0.835	1.16	
5.597	602691	477813	0.793	3.08	
5.692	176395	144428	0.819	0.90	
5.762	33881	22695	0.670	0.17	
5.799	40699	28876	0.709	0.20	
5.827	44330	39498	0.891	0.22	
5.879	432212	296032	0.685	2.21	
5.975	63845	33556	0.526	0.32	
6.113	391863	266382	0.680	2.00	
6.256	42036	24928	0.593	0.21	
6.314	35967	16333	0.454	0.18	
6.387	110583	88483	0.800	0.56	
6.463	18356	14069	0.766	0.09	
6.513	30867	16526	0.535	0.15	
6.597	22239	17428	0.784	0.11	
6.623	43733	30575	0.699	0.22	
6.803	17573	15942	0.907	0.08	
6.888	11273	10796	0.958	0.05	
7.091	35279	27942	0.792	0.18	
7.196	10562	11907	1.127	0.05	
7.337	11624	11865	1.021	0.05	
7.477	12060	13142	1.090	0.06	
7.529	18515	16531	0.893	0.09	
7.840	58000	38982	0.672	0.29	
8.362	23999	21545	0.898	0.12	
8.440	93129	60203	0.646	0.47	
8.657	2618428	2209213	0.844	13.79	
9.003	148332	88300	0.595	0.75	
9.526	196604	113183	0.576	1.00	
	19528607	16553992		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318035.D
Lab Smp Id: 1248-CAL2D Client Smp ID: 1248-CAL2D
Inj Date : 03-MAY-2018 14:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:37 Cal File: 050318059.D
Als bottle: 35 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			
4.344	4.343	0.001	507510	0.20000	0.21	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	912536	0.20000	0.21	0.00- 20.00	179.81	BA
4.899	4.898	0.001	421057	0.20000	0.21	0.00- 20.00	82.97	BA
4.964	4.963	0.001	1166514	0.20000	0.21	0.00- 20.00	229.85	BA
5.124	5.123	0.001	790864	0.20000	0.21	0.00- 20.00	155.83	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\40GCSK.i\050318.b\050318035.D

Date : 03-MAY-2018 14:23

Client ID: 1248-CAL2D

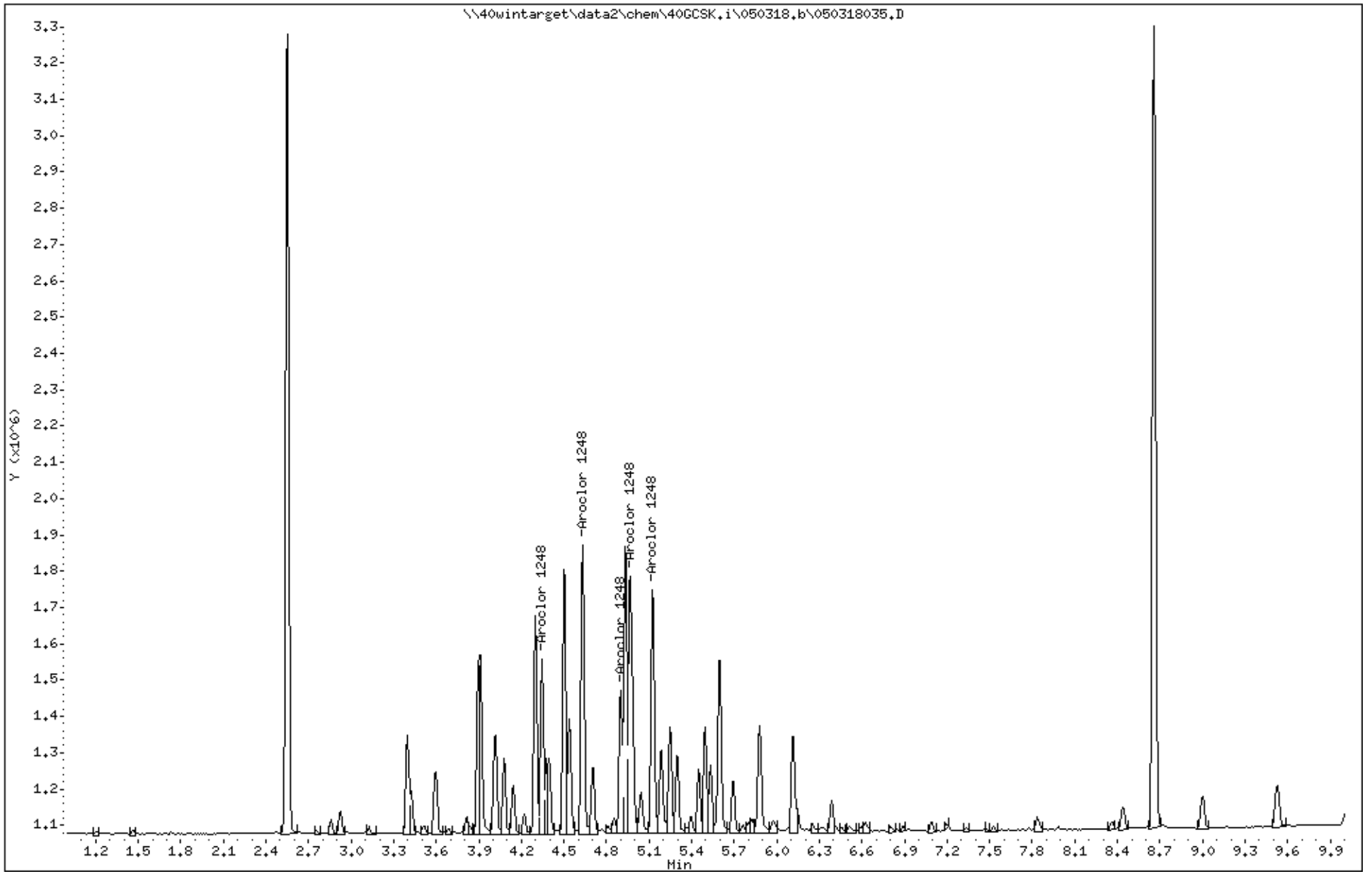
Instrument: 40GCSK.i

Sample Info: 1248-CAL2D, 185548:1

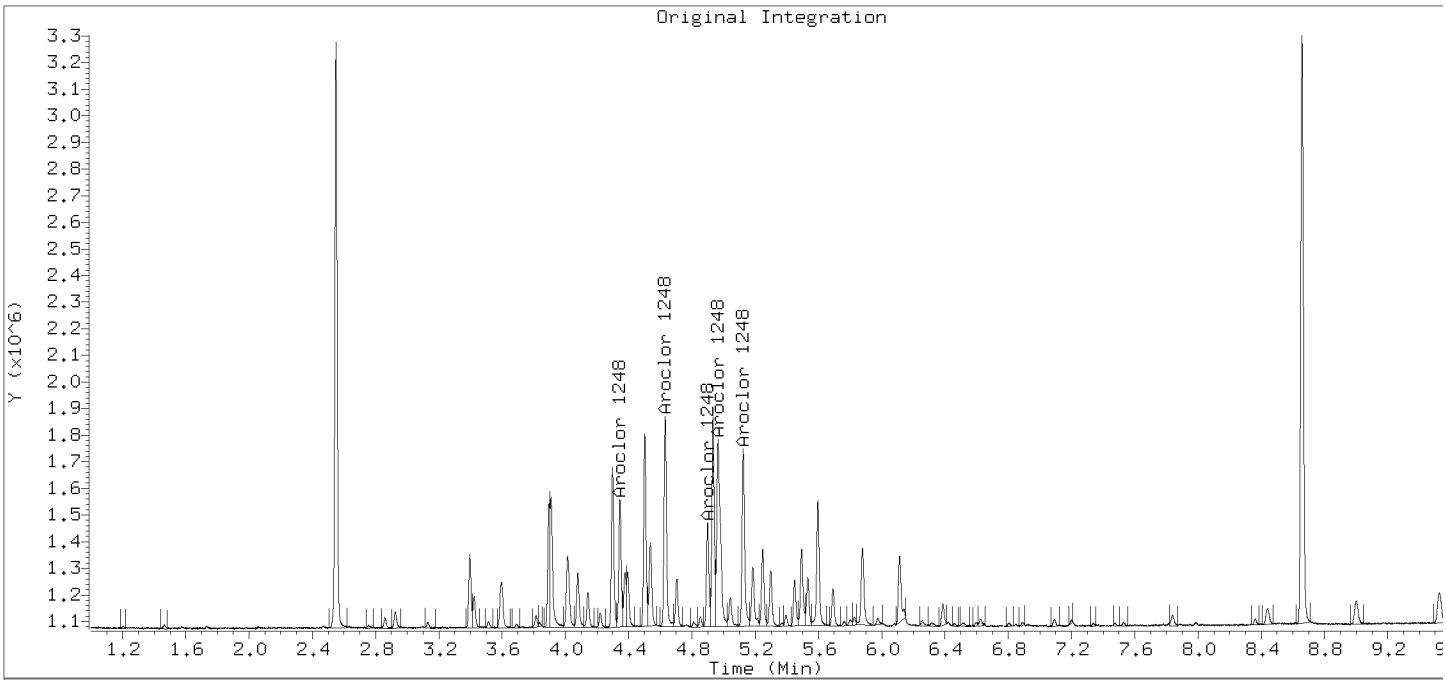
Operator: BLM

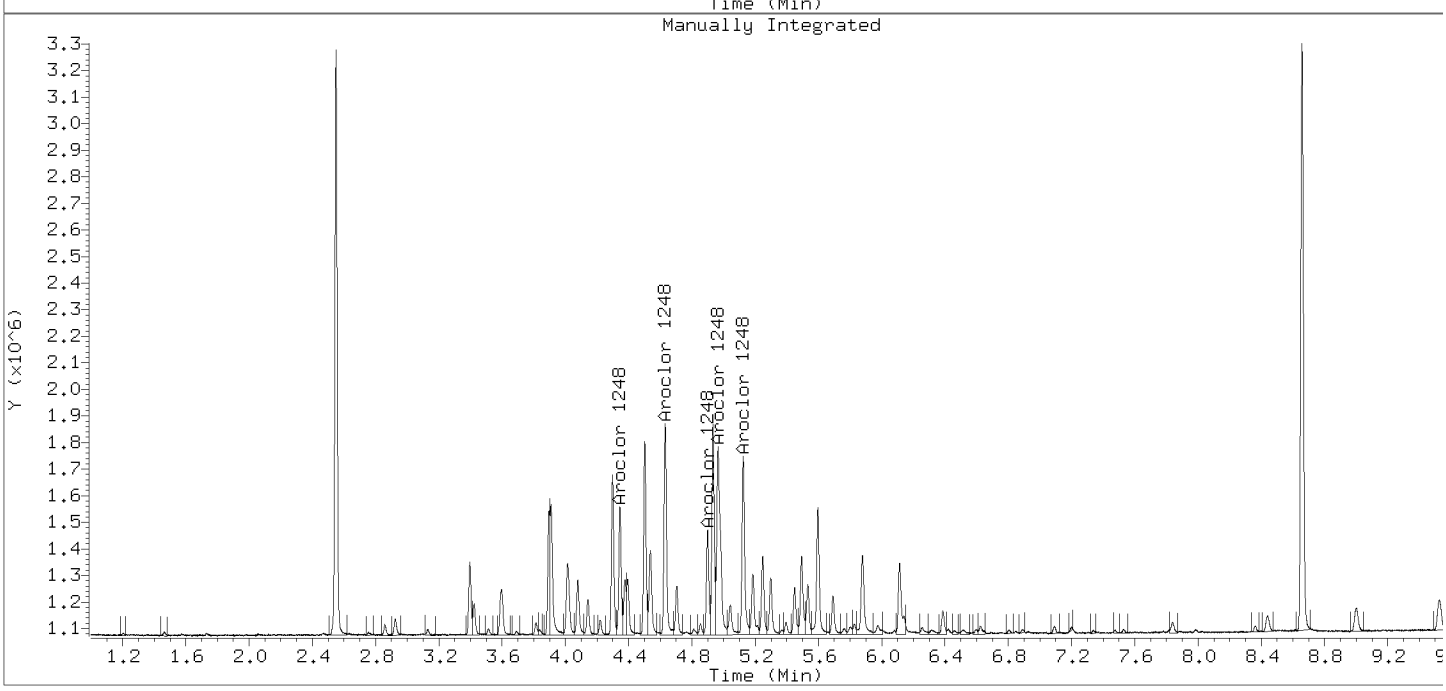
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318035.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 03-MAY-2018 14:23 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL2D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	498256	507510	BA
Aroclor 1248	498256	507510	BA
Aroclor 1248	498256	507510	BA
Aroclor 1248	498256	507510	BA
Aroclor 1248	498256	507510	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318037.D
Lab Smp Id: 1248-CAL3D Client Smp ID: 1248-CAL3D
Inj Date : 03-MAY-2018 14:39
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 37 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
1.204	23042	22710	0.986	0.04		
1.462	38699	34263	0.885	0.08		
1.578	23150	15930	0.688	0.05		
1.731	23036	24046	1.044	0.04		
2.059	16165	14865	0.920	0.03		
2.469	20338	16747	0.823	0.04		
2.550	5678766	5715490	1.006	12.28		
2.756	34200	22049	0.645	0.07		
2.859	108936	97997	0.900	0.23		
2.924	172815	156985	0.908	0.37		
3.131	55946	52458	0.938	0.12		
3.395	694446	679678	0.979	1.50		
3.422	302624	275356	0.910	0.65		
3.513	62351	55711	0.894	0.13		
3.594	579529	419536	0.724	1.25		
3.691	33010	33032	1.001	0.07		
3.813	122426	116540	0.952	0.26		
3.838	54217	50500	0.931	0.11		
3.896	1005937	1150188	1.143	2.17		
3.909	1397100	1237407	0.886	3.02		
4.013	914890	666523	0.729	1.97		
4.078	598088	531356	0.888	1.29		
4.143	364176	316157	0.868	0.78		
4.221	142099	131953	0.929	0.30		
4.299	1500430	1395046	0.930	3.24		
4.345	1205715	1125625	0.934	2.60	6 Aroclor 1248	BA
4.377	488024	508570	1.042	1.05		
4.394	586180	517481	0.883	1.26		
4.502	1808767	1693633	0.936	3.91		
4.537	976144	799806	0.819	2.11		
4.631	2162650	1875939	0.867	4.68	6 Aroclor 1248	BA
4.704	506510	441693	0.872	1.09		
4.764	31928	22466	0.704	0.06		
4.812	65601	47283	0.721	0.14		
4.854	111821	100139	0.896	0.24		
4.899	1045399	985825	0.943	2.26	6 Aroclor 1248	BA
4.933	2060779	1890751	0.917	4.45		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.965	2762255	1702336	0.616	5.97	6 Aroclor 1248
5.043	362968	260148	0.717	0.78	
5.124	1922734	1655526	0.861	4.16	6 Aroclor 1248
5.186	710658	559498	0.787	1.53	
5.248	826870	722062	0.873	1.78	
5.298	611068	526141	0.861	1.32	
5.371	45066	43863	0.973	0.09	
5.395	134453	106559	0.793	0.29	
5.449	512393	437130	0.853	1.10	
5.493	856252	734912	0.858	1.85	
5.532	551671	464538	0.842	1.19	
5.597	1478913	1168540	0.790	3.20	
5.691	423814	352352	0.831	0.91	
5.762	55624	46364	0.834	0.12	
5.802	81164	61623	0.759	0.17	
5.826	109816	89469	0.815	0.23	
5.851	31363	44741	1.427	0.06	
5.878	1005423	795915	0.792	2.17	
5.977	105206	81739	0.777	0.22	
5.997	66419	39288	0.592	0.14	
6.080	31585	29384	0.930	0.06	
6.112	831985	716808	0.862	1.80	
6.140	203362	157389	0.774	0.44	
6.256	92550	57533	0.622	0.20	
6.313	61920	32390	0.523	0.13	
6.387	257538	213022	0.827	0.55	
6.422	50845	44860	0.882	0.11	
6.463	44417	31733	0.714	0.09	
6.516	21379	14781	0.691	0.04	
6.598	41673	40402	0.969	0.09	
6.626	104018	70551	0.678	0.22	
6.690	13105	12759	0.974	0.02	
6.806	39558	35208	0.890	0.08	
6.848	21247	19263	0.907	0.04	
6.888	50038	37304	0.746	0.10	
7.093	85792	68690	0.801	0.18	
7.202	17758	12462	0.702	0.03	
7.338	33463	28564	0.854	0.07	
7.476	33193	30409	0.916	0.07	
7.528	33297	30320	0.911	0.07	
7.776	11465	13290	1.159	0.02	
7.812	18578	18238	0.982	0.04	
7.839	13271	11505	0.867	0.02	
7.987	37080	26245	0.708	0.08	
8.362	63986	53435	0.835	0.13	
8.439	13036	12044	0.924	0.02	
8.657	6284570	5316129	0.846	14.03	
9.001	27032	15251	0.564	0.05	
	46207803	40284447		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318037.D
Lab Smp Id: 1248-CAL3D Client Smp ID: 1248-CAL3D
Inj Date : 03-MAY-2018 14:39
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 37 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			
4.344	4.343	0.001	1205715	0.50000	0.50	0.00- 20.00	100.00(M)	BA
4.631	4.630	0.001	2162650	0.50000	0.51	0.00- 20.00	179.37	BA
4.898	4.898	0.000	1045399	0.50000	0.51	0.00- 20.00	86.70	BA
4.964	4.963	0.001	2762254	0.50000	0.50	0.00- 20.00	229.10	BA
5.123	5.123	0.000	1922734	0.50000	0.51	0.00- 20.00	159.47	BA
Average of Peak Amounts =					0.50600			

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\40GCSK.i\050318.b\050318037.D

Date : 03-MAY-2018 14:39

Client ID: 1248-CAL3D

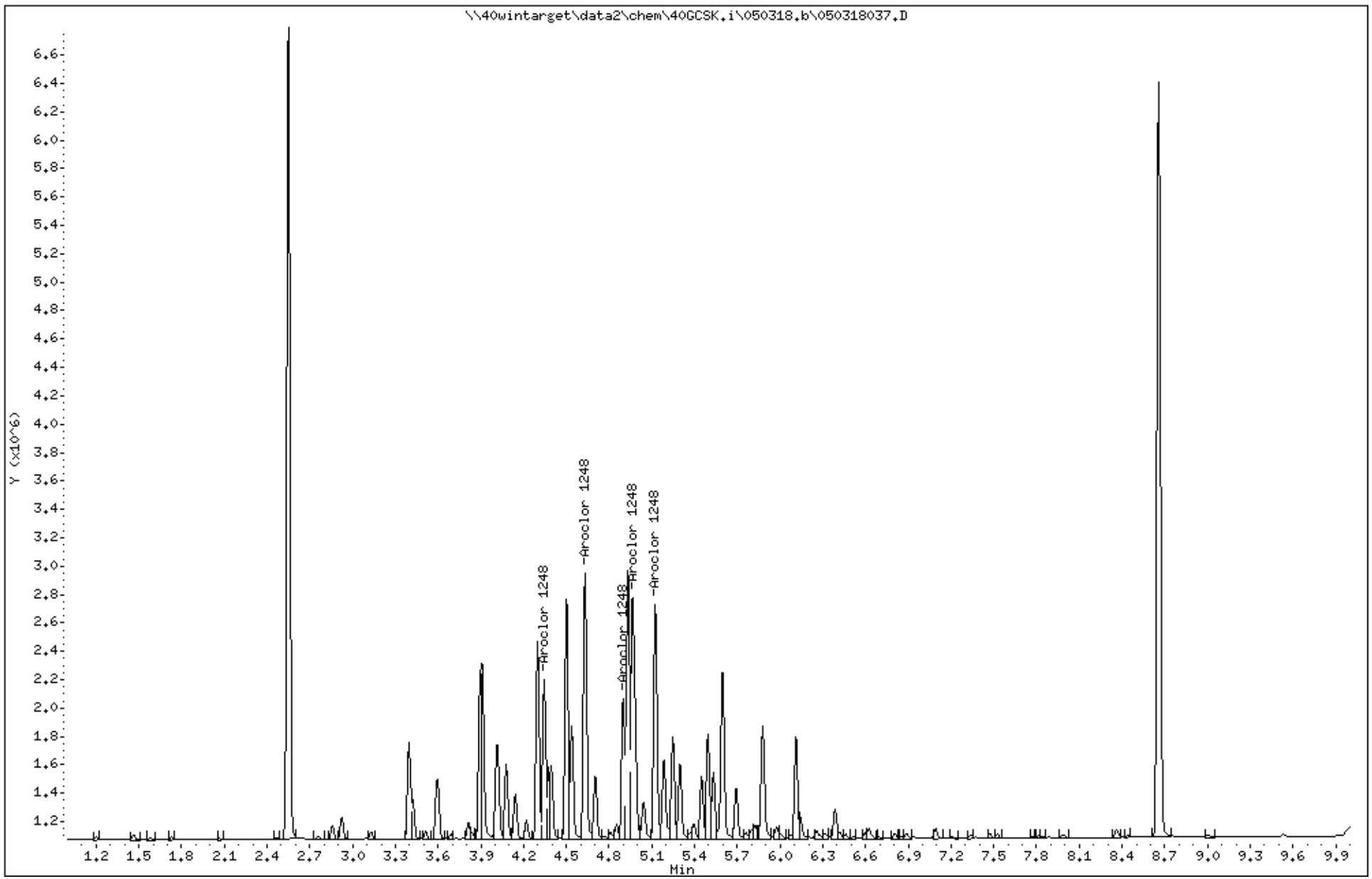
Instrument: 40GCSK.i

Sample Info: 1248-CAL3D, 185549:1

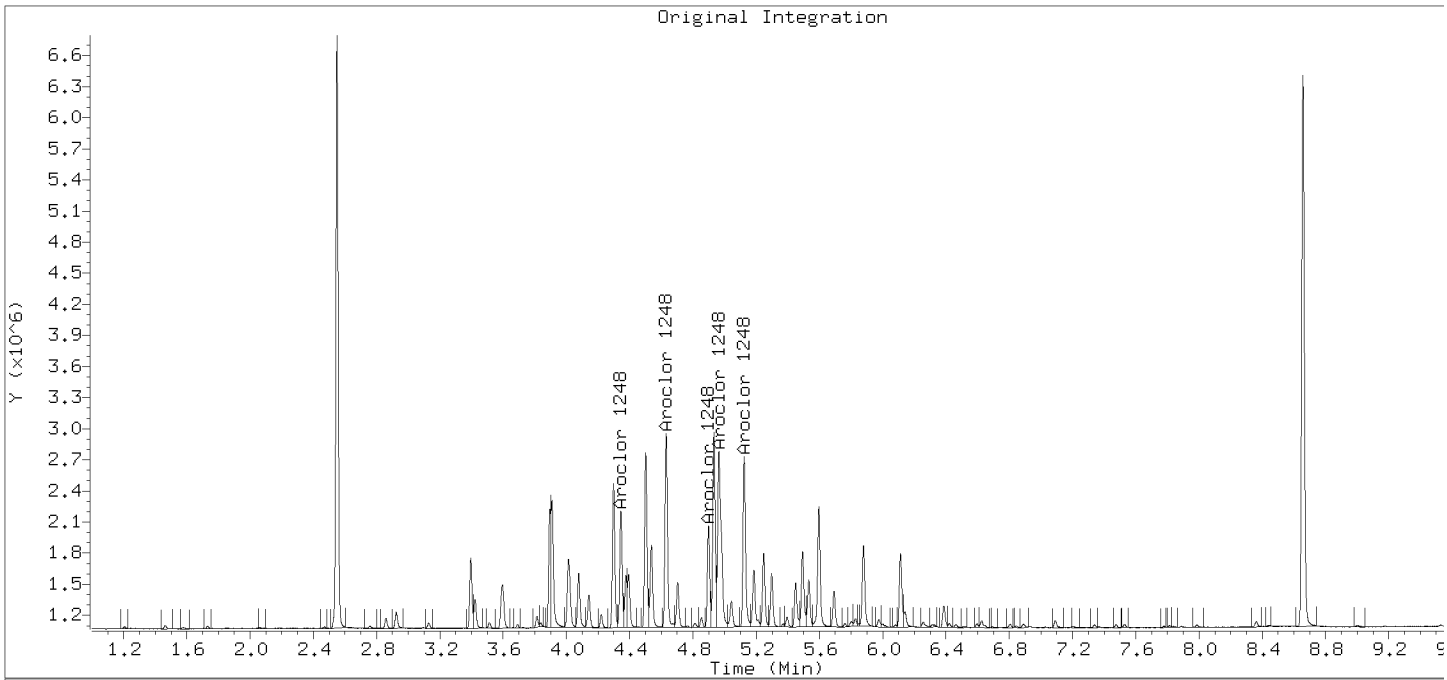
Operator: BLM

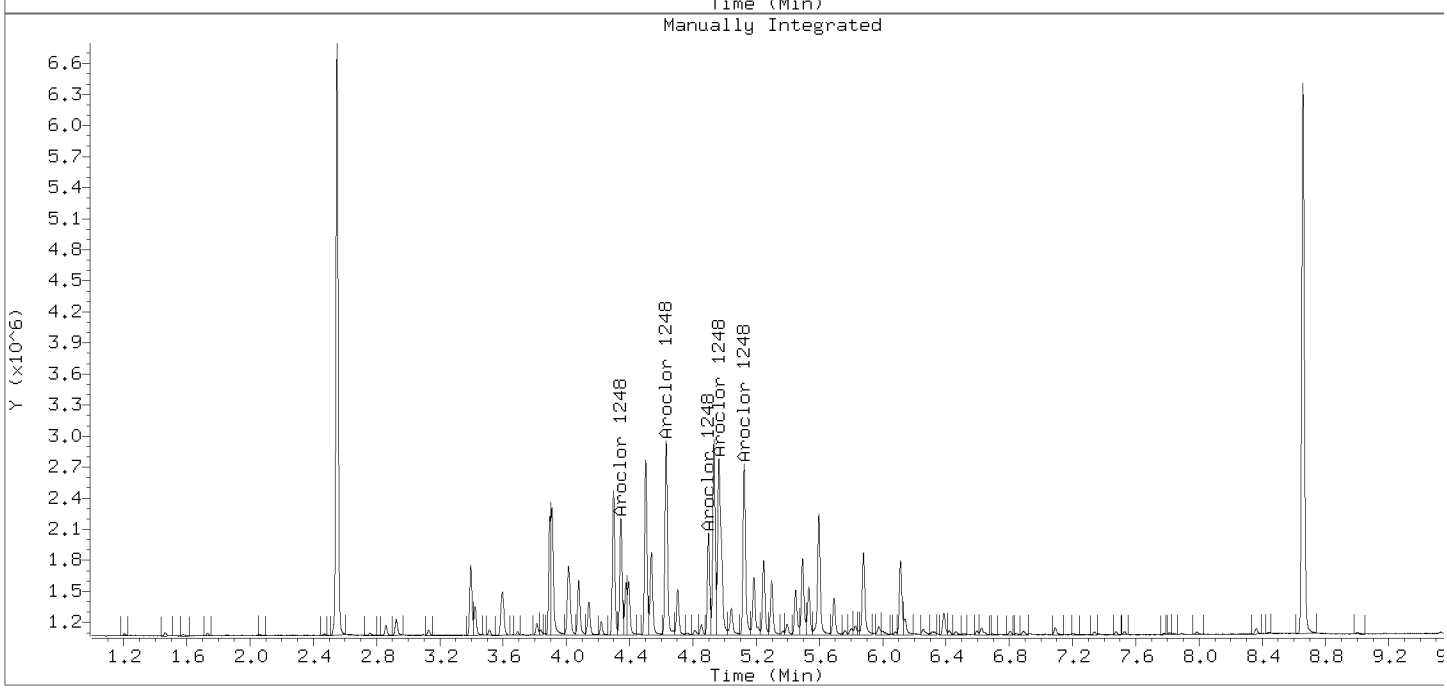
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318037.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 03-MAY-2018 14:39 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL3D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1180648	1205715	BA
Aroclor 1248	1180648	1205715	BA
Aroclor 1248	1180648	1205715	BA
Aroclor 1248	1180648	1205715	BA
Aroclor 1248	1180648	1205715	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318039.D
Lab Smp Id: 1248-CAL4D Client Smp ID: 1248-CAL4D
Inj Date : 03-MAY-2018 14:56
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:09 Cal File: 050318063.D
Als bottle: 39 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
1.461	61627	62076	1.007	0.08		
1.574	27531	25715	0.934	0.03		
1.729	9643	10967	1.137	0.01		
2.468	34877	24670	0.707	0.04		
2.549	11061533	11239262	1.016	14.84		
2.754	43143	31667	0.734	0.05		
2.858	186267	177384	0.952	0.25		
2.922	250674	227380	0.907	0.33		
3.129	92272	82704	0.896	0.12		
3.395	1040377	1001925	0.963	1.39		
3.422	467363	419847	0.898	0.62		
3.514	104504	85754	0.821	0.14		
3.594	902172	643071	0.713	1.21		
3.691	72952	66712	0.914	0.09		
3.725	15414	11043	0.716	0.02		
3.775	10398	11543	1.110	0.01		
3.813	181634	175488	0.966	0.24		
3.838	93618	79421	0.848	0.12		
3.896	1457388	1719370	1.180	1.95		
3.908	2148087	1839001	0.856	2.88		
4.013	1385896	1022659	0.738	1.86		
4.077	919946	792712	0.862	1.23		
4.142	538927	488428	0.906	0.72		
4.220	225074	195612	0.869	0.30		
4.297	2221402	2044175	0.920	2.98		
4.344	1798581	1627949	0.905	2.41	6 Aroclor 1248	BA
4.376	755009	780094	1.033	1.01		
4.393	866888	765639	0.883	1.16		
4.502	2705404	2514860	0.930	3.63		
4.537	1466339	1177018	0.803	1.96		
4.631	3189565	2846740	0.893	4.28	6 Aroclor 1248	BA
4.676	64765	65460	1.011	0.08		
4.703	770551	691438	0.897	1.03		
4.766	52248	33813	0.647	0.07		
4.812	99193	72980	0.736	0.13		
4.853	167957	154648	0.921	0.22		
4.898	1579735	1472056	0.932	2.12	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.933	3113352	2894439	0.930	4.17	
4.964	4121037	2570106	0.624	5.53	6 Aroclor 1248
5.043	540359	398986	0.738	0.72	
5.123	2909152	2543192	0.874	3.90	6 Aroclor 1248
5.185	960084	828544	0.863	1.28	
5.212	116834	119642	1.024	0.15	
5.247	1236847	1084649	0.877	1.66	
5.298	922733	782911	0.848	1.23	
5.369	65608	57883	0.882	0.08	
5.395	200900	159797	0.795	0.26	
5.449	774000	661417	0.855	1.03	
5.493	1293168	1094890	0.847	1.73	
5.533	833320	711313	0.854	1.11	
5.597	2203206	1705526	0.774	2.95	
5.692	638734	554222	0.868	0.85	
5.760	81188	64590	0.796	0.10	
5.803	125399	95217	0.759	0.16	
5.828	156858	136687	0.871	0.21	
5.849	52898	64144	1.213	0.07	
5.879	1529546	1167333	0.763	2.05	
5.976	214300	121690	0.568	0.28	
6.079	49218	44456	0.903	0.06	
6.112	1258249	1076984	0.856	1.68	
6.141	309778	230160	0.743	0.41	
6.258	136587	86377	0.632	0.18	
6.316	82223	47831	0.582	0.11	
6.387	383609	308979	0.805	0.51	
6.422	84360	65024	0.771	0.11	
6.462	58995	47207	0.800	0.07	
6.513	23315	19161	0.822	0.03	
6.597	67995	62408	0.918	0.09	
6.625	150846	106047	0.703	0.20	
6.691	23750	14848	0.625	0.03	
6.745	16215	13652	0.842	0.02	
6.805	61322	55424	0.904	0.08	
6.847	27179	24992	0.920	0.03	
6.888	59956	53234	0.888	0.08	
6.930	22090	16541	0.749	0.02	
7.091	106720	99431	0.932	0.14	
7.202	11405	8941	0.784	0.01	
7.340	49071	39616	0.807	0.06	
7.371	15899	15169	0.954	0.02	
7.475	48376	44937	0.929	0.06	
7.529	50660	43721	0.863	0.06	
7.781	20685	16178	0.782	0.02	
7.816	33797	30911	0.915	0.04	
7.988	44215	37223	0.842	0.05	
8.361	115918	97522	0.841	0.15	
8.442	21402	16202	0.757	0.02	
8.538	12902	8399	0.651	0.01	
8.657	11858224	10074889	0.850	16.37	
9.003	47548	26692	0.561	0.06	
9.172	18444	11246	0.610	0.02	
9.527	48810	33601	0.688	0.06	
9.774	12094	7810	0.646	0.01	
	74490333	65384272		100.000	

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318039.D
Lab Smp Id: 1248-CAL4D Client Smp ID: 1248-CAL4D
Inj Date : 03-MAY-2018 14:56
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:09 Cal File: 050318063.D
Als bottle: 39 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			
4.343	4.343	0.000	1798581	0.80000	0.75	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	3189565	0.80000	0.75	0.00- 20.00	177.34	BA
4.898	4.898	0.000	1579735	0.80000	0.78	0.00- 20.00	87.83	BA
4.964	4.963	0.001	4121036	0.80000	0.75	0.00- 20.00	229.13	BA
5.123	5.123	0.000	2909151	0.80000	0.77	0.00- 20.00	161.75	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\40GCSK.i\050318.b\050318039.D

Date : 03-MAY-2018 14:56

Client ID: 1248-CAL4D

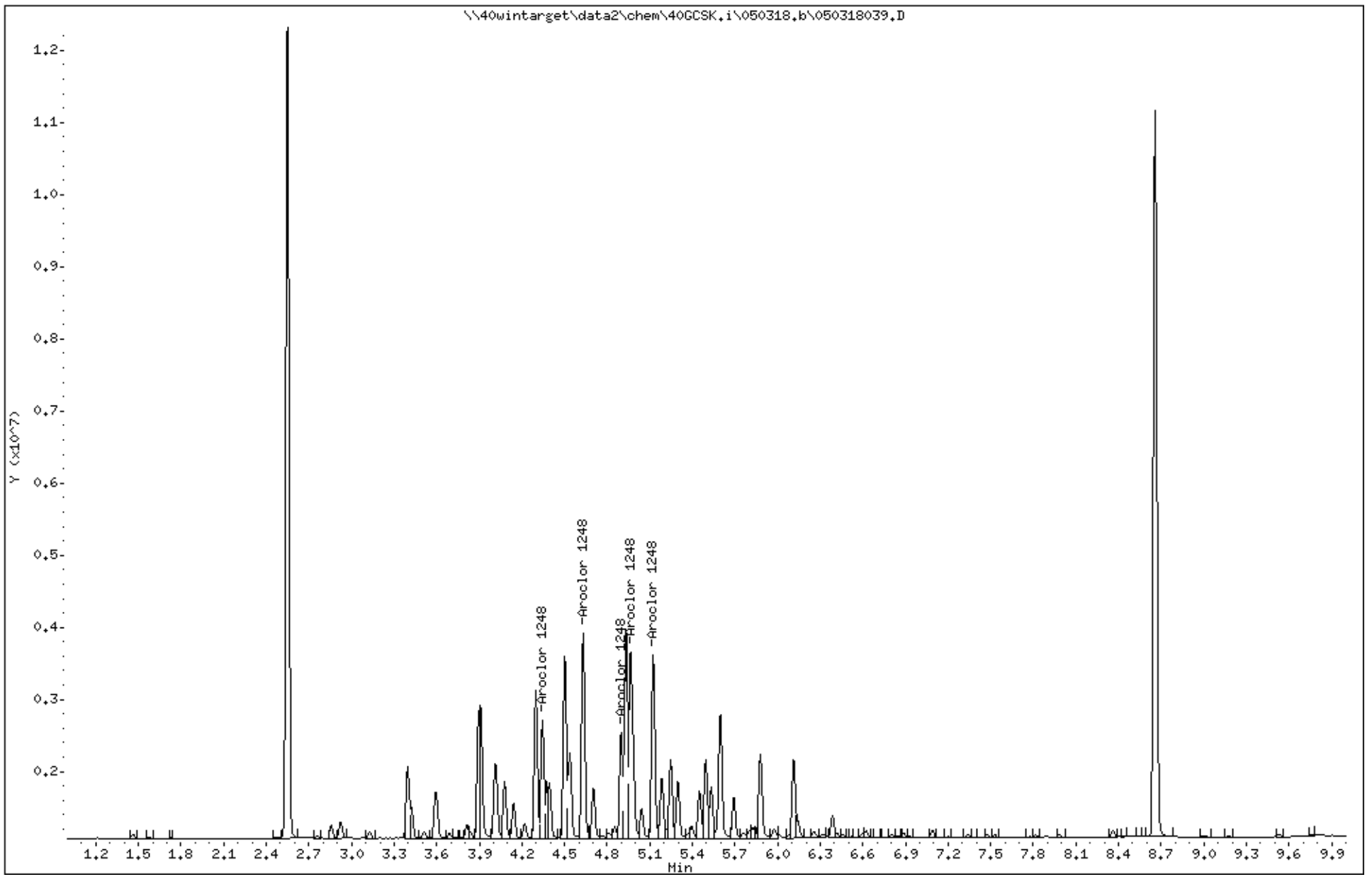
Instrument: 40GCSK.i

Sample Info: 1248-CAL4D, 185550:1

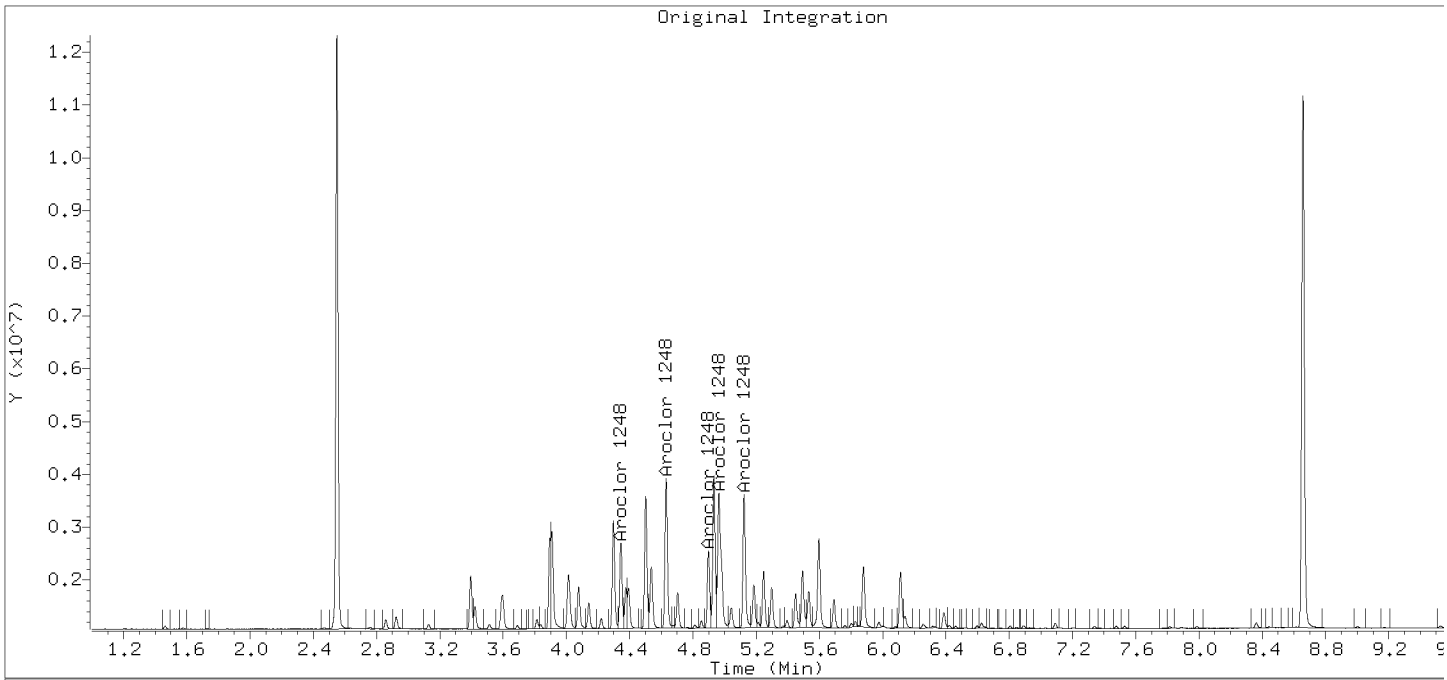
Operator: BLM

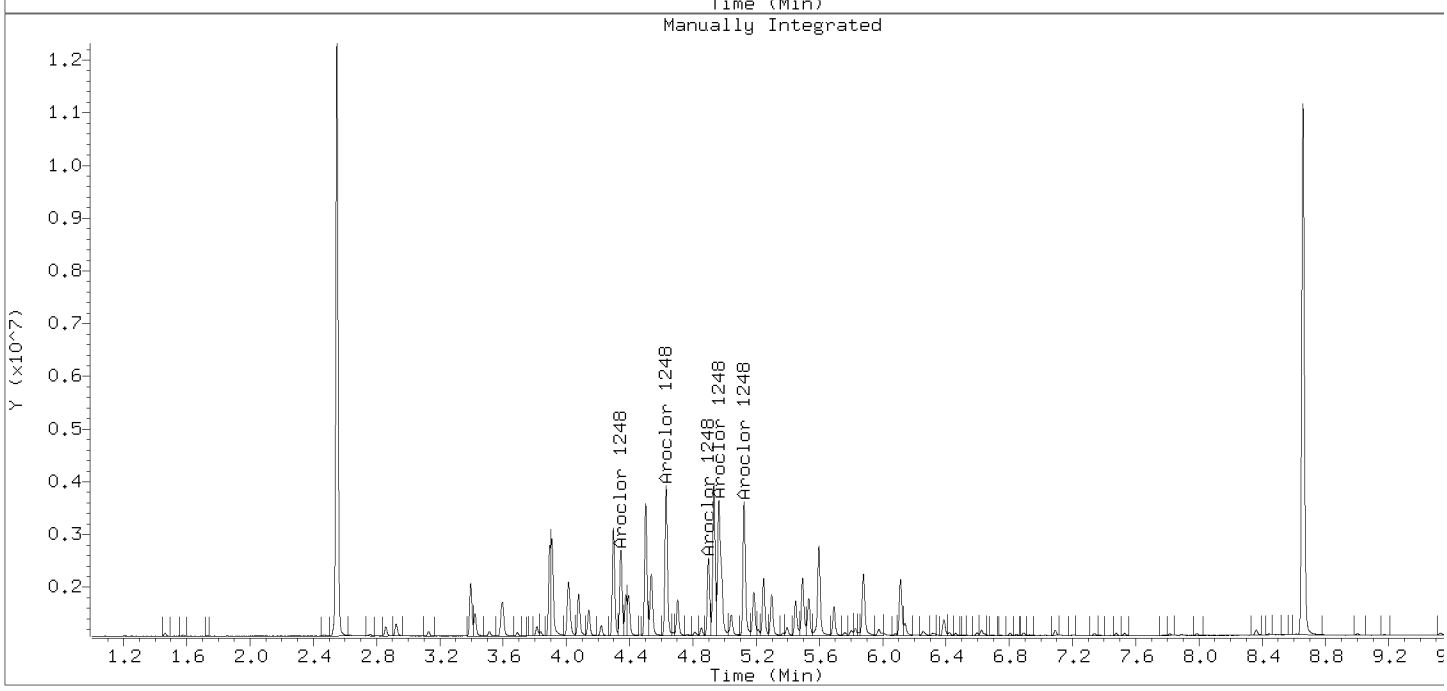
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318039.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 03-MAY-2018 14:56 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL4D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1771634	1798581	BA
Aroclor 1248	1771634	1798581	BA
Aroclor 1248	1771634	1798581	BA
Aroclor 1248	1771634	1798581	BA
Aroclor 1248	1771634	1798581	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318041.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 03-MAY-2018 15:12
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 41 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
1.462	91836	92430	1.006	0.09		
1.578	37716	36002	0.955	0.03		
1.730	14148	12892	0.911	0.01		
2.470	42419	31943	0.753	0.04		
2.549	17160272	17561535	1.023	17.12		
2.758	55305	40378	0.730	0.05		
2.858	274138	252676	0.922	0.27		
2.924	342345	300284	0.877	0.34		
3.129	116710	109390	0.937	0.11		
3.395	1309260	1264814	0.966	1.30		
3.422	589586	545586	0.925	0.58		
3.513	114896	107259	0.934	0.11		
3.596	1137738	820817	0.721	1.13		
3.690	93391	97959	1.049	0.09		
3.727	15007	10474	0.698	0.01		
3.780	14108	14703	1.042	0.01		
3.814	235689	225987	0.959	0.23		
3.839	120280	102257	0.850	0.12		
3.895	1983838	2269212	1.144	1.97		
3.908	2651128	2351793	0.887	2.64		
4.013	1776845	1279486	0.720	1.77		
4.077	1184604	1032495	0.872	1.18		
4.142	695600	620315	0.892	0.69		
4.220	276148	250528	0.907	0.27		
4.297	2823755	2593254	0.918	2.81		
4.345	2273296	2128782	0.936	2.26	6 Aroclor 1248	BA
4.377	969494	966726	0.997	0.96		
4.393	1127745	969072	0.859	1.12		
4.502	3450824	3169586	0.919	3.44		
4.537	1864333	1505345	0.807	1.86		
4.631	4071185	3599090	0.884	4.06	6 Aroclor 1248	BA
4.674	72315	83332	1.152	0.07		
4.703	997310	872967	0.875	0.99		
4.766	58927	41691	0.707	0.05		
4.811	126177	91338	0.724	0.12		
4.853	216024	194979	0.903	0.21		
4.898	2018219	1863153	0.923	2.01	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.933	3974260	3733791	0.939	3.96	
4.964	5236056	3344636	0.639	5.22	6 Aroclor 1248
5.043	687795	506909	0.737	0.68	
5.124	3726636	3308568	0.888	3.71	6 Aroclor 1248
5.185	1225770	1061522	0.866	1.22	
5.211	135950	149629	1.101	0.13	
5.248	1569206	1340519	0.854	1.56	
5.298	1173268	975974	0.832	1.17	
5.370	76106	74491	0.979	0.07	
5.395	252869	206667	0.817	0.25	
5.449	978931	834108	0.852	0.97	
5.494	1664857	1405100	0.844	1.66	
5.532	1052019	905200	0.860	1.04	
5.597	2771261	2183104	0.788	2.76	
5.691	812205	703406	0.866	0.81	
5.762	92578	77352	0.836	0.09	
5.801	150969	115532	0.765	0.15	
5.825	209380	167933	0.802	0.20	
5.851	54173	76968	1.421	0.05	
5.878	1937268	1483219	0.766	1.93	
5.975	254266	153336	0.603	0.25	
6.079	53976	52426	0.971	0.05	
6.113	1619632	1368956	0.845	1.61	
6.141	394829	283298	0.718	0.39	
6.257	155268	105674	0.681	0.15	
6.313	93226	52756	0.566	0.09	
6.386	483529	399946	0.827	0.48	
6.421	91107	77433	0.850	0.09	
6.461	67630	55223	0.817	0.06	
6.517	27977	18529	0.662	0.02	
6.595	72915	70182	0.963	0.07	
6.625	146217	130019	0.889	0.14	
6.690	11580	14748	1.274	0.01	
6.745	13873	12196	0.879	0.01	
6.806	69639	63008	0.905	0.06	
6.846	34512	31458	0.912	0.03	
6.889	75713	68490	0.905	0.07	
6.930	23411	20407	0.872	0.02	
7.027	10531	11571	1.099	0.01	
7.091	147133	126380	0.859	0.14	
7.209	20000	14923	0.746	0.01	
7.339	47227	44652	0.945	0.04	
7.475	60113	54922	0.914	0.05	
7.528	67993	60024	0.883	0.06	
7.777	23502	22012	0.937	0.02	
7.814	58238	49026	0.842	0.05	
7.886	31211	23794	0.762	0.03	
7.986	48813	45396	0.930	0.04	
8.361	180943	141188	0.780	0.18	
8.440	10245	10472	1.022	0.01	
8.537	10008	8425	0.842	0.00	
8.608	18217	12648	0.694	0.01	
8.657	17543140	15485480	0.883	17.95	
9.004	12636	12869	1.018	0.01	
9.173	23997	16056	0.669	0.02	
9.526	21832	16621	0.761	0.02	
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Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318041.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 03-MAY-2018 15:12
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17762,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 41 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			
4.344	4.343	0.001	2273295	1.00000	0.95	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	4071185	1.00000	0.96	0.00- 20.00	179.09	BA
4.897	4.898	-0.001	2018218	1.00000	0.99	0.00- 20.00	88.78	BA
4.963	4.963	0.000	5236055	1.00000	0.96	0.00- 20.00	230.33	BA
5.123	5.123	0.000	3726636	1.00000	0.98	0.00- 20.00	163.93	BA
Average of Peak Amounts =					0.96800			

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\40GCSK.i\050318.b\050318041.D

Date : 03-MAY-2018 15:12

Client ID: 1248-CAL5D

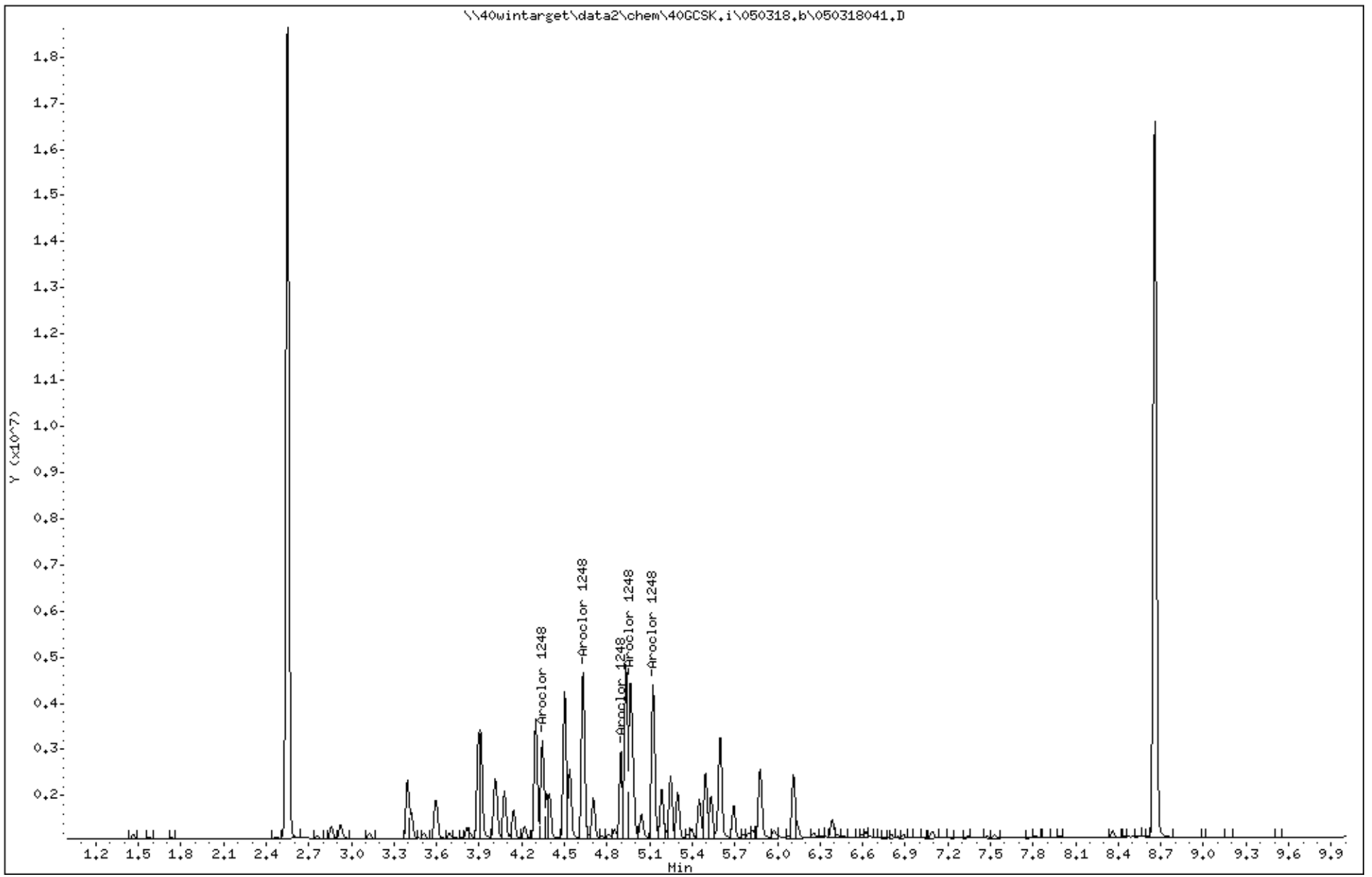
Instrument: 40GCSK.i

Sample Info: 1248-CAL5D, 185551:1

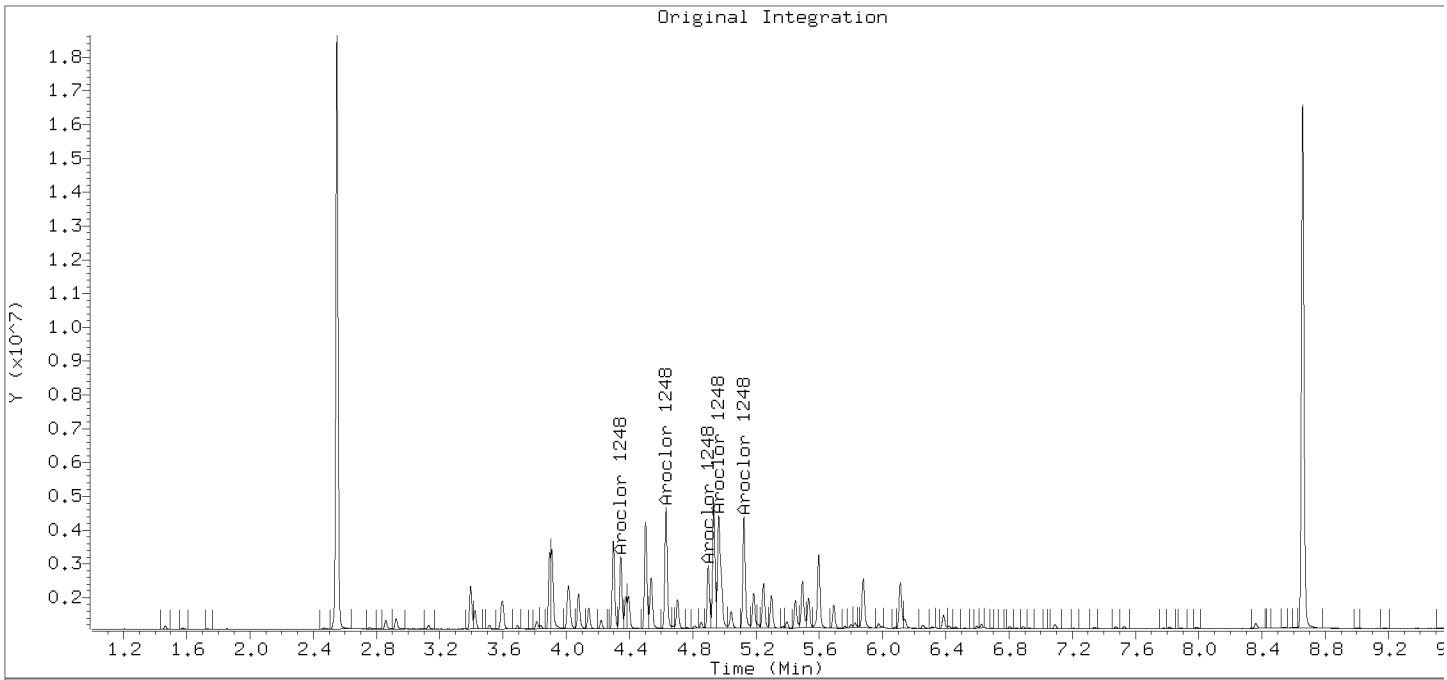
Operator: BLM

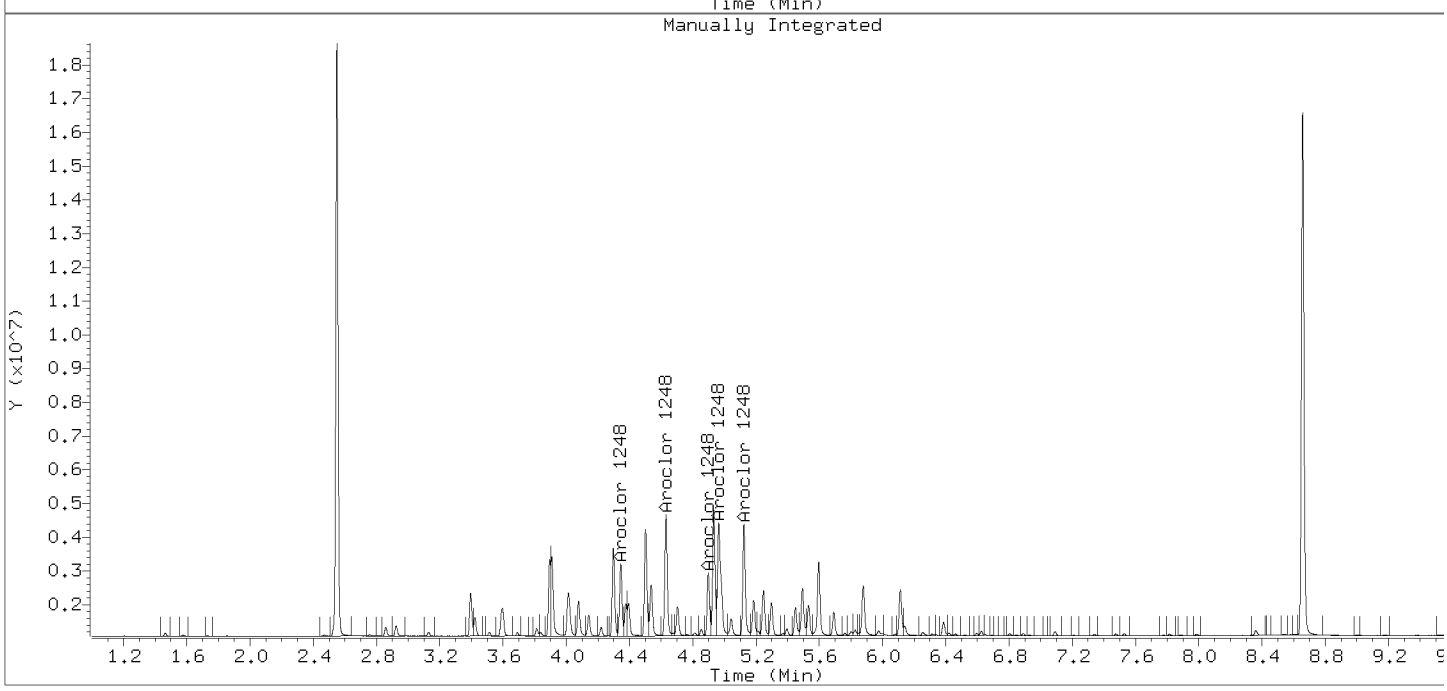
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318041.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 03-MAY-2018 15:12 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL5D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	2255505	2273295	BA
Aroclor 1248	2255505	2273295	BA
Aroclor 1248	2255505	2273295	BA
Aroclor 1248	2255505	2273295	BA
Aroclor 1248	2255505	2273295	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318045.D
Lab Smp Id: 1254-CAL1C Client Smp ID: 1254-CAL1C
Inj Date : 03-MAY-2018 15:44
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal1c, 188135:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:21 Cal File: 050318057.D
Als bottle: 45 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
2.549	1179502	1167461	0.990	9.81		
2.857	16535	17412	1.053	0.13		
3.690	12117	9114	0.752	0.10		
4.299	263491	244022	0.926	2.19		
4.346	65124	64046	0.983	0.54		
4.502	160147	146899	0.917	1.33		
4.540	15729	14808	0.941	0.13		
4.632	80283	63791	0.795	0.66		
4.702	19593	12984	0.663	0.16		
4.898	59045	51641	0.875	0.49		
4.934	230365	201305	0.874	1.91		
4.980	559768	438433	0.783	4.65		
5.042	95903	78877	0.822	0.79		
5.126	54684	41630	0.761	0.45		
5.186	317361	273343	0.861	2.64		
5.248	605223	532922	0.881	5.03	7 Aroclor 1254	BA
5.297	277550	237464	0.856	2.30		
5.397	51481	43472	0.844	0.42		
5.449	226805	204165	0.900	1.88		
5.494	483755	425519	0.880	4.02	7 Aroclor 1254	BA
5.532	163729	144361	0.882	1.36		
5.564	64826	60756	0.937	0.53		
5.596	908810	785216	0.864	7.56	7 Aroclor 1254	BA
5.691	132623	105412	0.795	1.10		
5.761	84922	75466	0.889	0.70		
5.799	119697	77382	0.646	0.99		
5.828	76419	59643	0.780	0.63		
5.877	927803	651737	0.702	7.71		
5.972	98137	60861	0.620	0.81		
6.013	48845	31026	0.635	0.40		
6.080	75297	69055	0.917	0.62		
6.114	525013	446276	0.850	4.36	7 Aroclor 1254	BA
6.141	442950	354076	0.799	3.68		
6.254	163096	127505	0.782	1.35		
6.315	70726	66225	0.936	0.58		
6.328	76016	65326	0.859	0.63		
6.387	756905	633778	0.837	6.29	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.421	157209	120376	0.766	1.30	
6.461	91519	66348	0.725	0.76	
6.598	32862	27267	0.830	0.27	
6.624	251355	178493	0.710	2.09	
6.692	39286	28106	0.715	0.32	
6.807	47278	40986	0.867	0.39	
6.848	31059	26187	0.843	0.25	
6.891	130461	107035	0.820	1.08	
6.931	41798	27889	0.667	0.34	
7.092	94677	80486	0.850	0.78	
7.340	79329	66625	0.840	0.65	
7.369	14506	15451	1.065	0.12	
7.639	10367	6933	0.669	0.08	
8.362	17220	12596	0.731	0.14	
8.657	1455903	1185230	0.814	12.38	
9.527	15450	10674	0.691	0.12	
	12020551	10084091		100.000	

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318045.D
Lab Smp Id: 1254-CAL1C Client Smp ID: 1254-CAL1C
Inj Date : 03-MAY-2018 15:44
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal1c, 188135:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:21 Cal File: 050318057.D
Als bottle: 45 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			
5.248	5.248	0.000	605222	0.10000	0.11	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	483754	0.10000	0.10	0.00- 20.00	79.93	BA
5.596	5.596	0.000	908809	0.10000	0.11	0.00- 20.00	150.16	BA
6.114	6.113	0.001	525013	0.10000	0.099	0.00- 20.00	86.75	BA
6.386	6.387	-0.001	756904	0.10000	0.10	0.00- 20.00	125.06	BA
Average of Peak Amounts =					0.10380			

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\40GCSK.i\050318.b\050318045.D

Date : 03-MAY-2018 15:44

Client ID: 1254-CAL1C

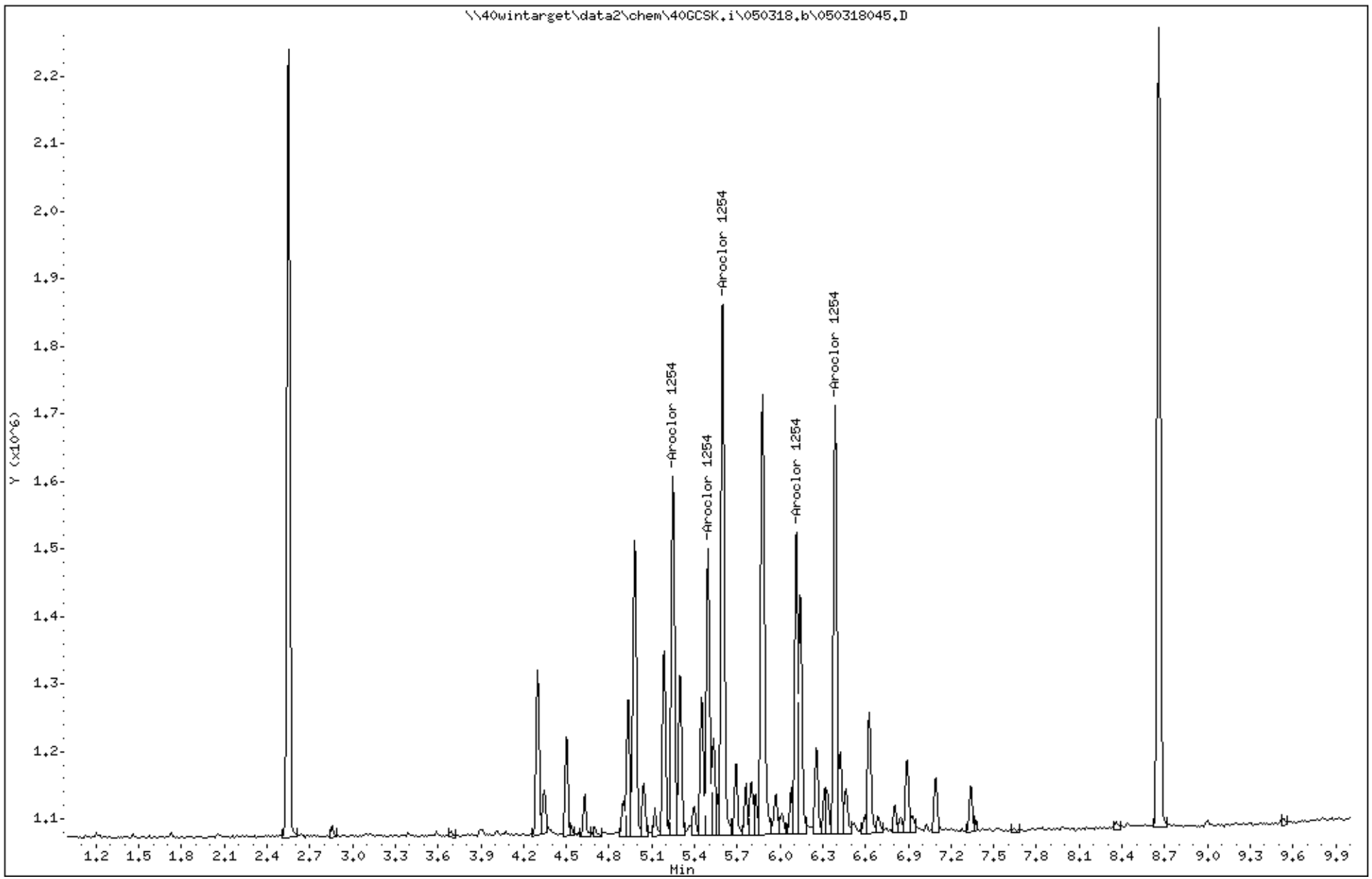
Instrument: 40GCSK.i

Sample Info: 1254-CAL1C, 188135:1

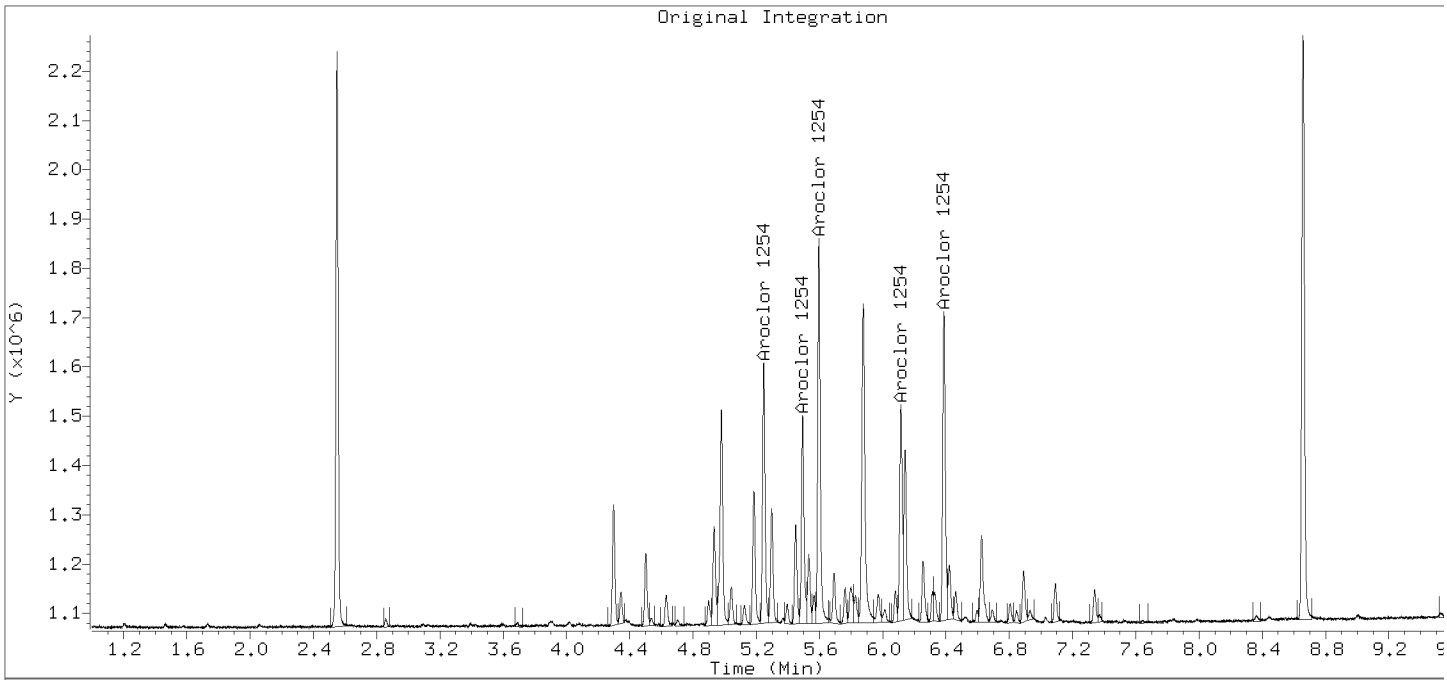
Operator: BLM

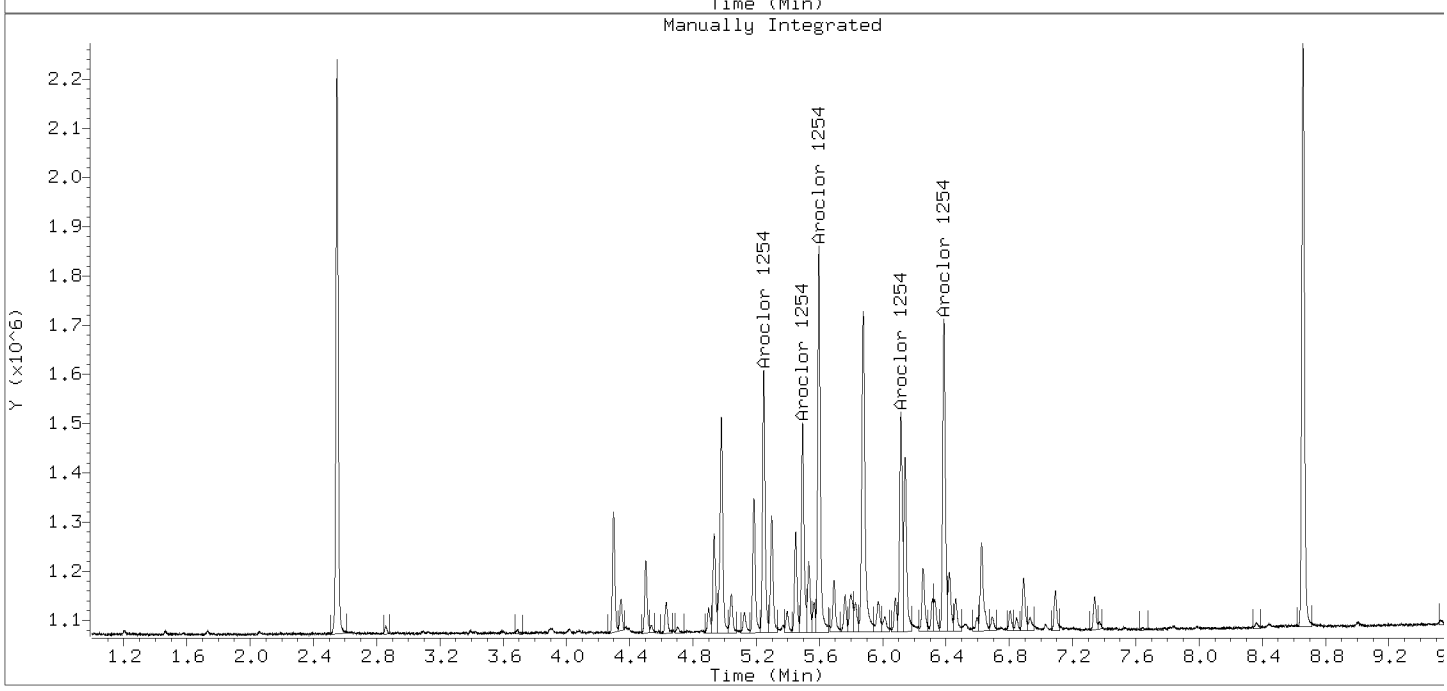
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318045.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 03-MAY-2018 15:44 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL1C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	588776	605222	BA
Aroclor 1254	588776	605222	BA
Aroclor 1254	588776	605222	BA
Aroclor 1254	588776	605222	BA
Aroclor 1254	588776	605222	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318047.D
Lab Smp Id: 1254-CAL2C Client Smp ID: 1254-CAL2C
Inj Date : 03-MAY-2018 16:00
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:37 Cal File: 050318059.D
Als bottle: 47 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
1.461	14822	13973	0.943	0.06		
1.576	10179	9618	0.945	0.04		
2.549	2304938	2305889	1.000	9.50		
2.860	41460	32918	0.794	0.17		
3.393	13825	11709	0.847	0.05		
3.690	24133	16627	0.689	0.09		
3.895	23160	17490	0.755	0.09		
4.011	13412	11642	0.868	0.05		
4.298	532260	501440	0.942	2.19		
4.344	140614	132592	0.943	0.58		
4.374	22660	18151	0.801	0.09		
4.501	315775	291472	0.923	1.30		
4.535	32451	31917	0.984	0.13		
4.632	138554	127356	0.919	0.57		
4.702	19504	22995	1.179	0.08		
4.899	118915	108209	0.910	0.49		
4.933	470051	431905	0.919	1.93		
4.980	1111171	876077	0.788	4.58		
5.042	191764	159654	0.833	0.79		
5.123	111718	86016	0.770	0.46		
5.185	635245	552953	0.870	2.62		
5.247	1204914	1082067	0.898	4.97	7 Aroclor 1254	BA
5.297	564212	480275	0.851	2.32		
5.370	30671	29705	0.969	0.12		
5.395	105146	85723	0.815	0.43		
5.449	458488	421613	0.920	1.89		
5.494	974769	846428	0.868	4.02	7 Aroclor 1254	BA
5.532	339130	285795	0.843	1.39		
5.566	125700	121110	0.963	0.51		
5.596	1813407	1570262	0.866	7.48	7 Aroclor 1254	BA
5.692	260436	213698	0.821	1.07		
5.760	166748	147782	0.886	0.68		
5.799	254610	156620	0.615	1.05		
5.827	144880	122289	0.844	0.59		
5.876	1871210	1322226	0.707	7.71		
5.972	170241	123615	0.726	0.70		
6.013	98405	61277	0.623	0.40		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.080	157569	140006	0.889	0.65	
6.115	1103101	935413	0.848	4.55	7 Aroclor 1254
6.141	893481	699043	0.782	3.68	
6.256	323732	257778	0.796	1.33	
6.314	247053	134935	0.546	1.01	
6.386	1532709	1284719	0.838	6.32	7 Aroclor 1254
6.421	298676	240768	0.806	1.23	
6.461	170298	131936	0.775	0.70	
6.521	36459	26677	0.732	0.15	
6.596	63504	56432	0.889	0.26	
6.624	510418	380918	0.746	2.10	
6.691	82335	60127	0.730	0.33	
6.806	99253	83565	0.842	0.40	
6.847	59639	53514	0.897	0.24	
6.889	278919	226915	0.814	1.15	
6.929	92957	56132	0.604	0.38	
7.030	27653	23009	0.832	0.11	
7.091	210951	166685	0.790	0.87	
7.161	9727	8068	0.829	0.04	
7.199	23691	14528	0.613	0.09	
7.339	162365	144320	0.889	0.66	
7.369	42779	31456	0.735	0.17	
7.525	10429	10067	0.965	0.04	
7.639	11279	10654	0.945	0.04	
7.838	27359	19069	0.697	0.11	
8.362	25639	18720	0.730	0.10	
8.441	34278	24983	0.729	0.14	
8.657	2693320	2289732	0.850	11.39	
9.002	66583	36898	0.554	0.27	
9.526	74251	48860	0.658	0.30	
	24239985	20447015		100.000	

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318047.D
Lab Smp Id: 1254-CAL2C Client Smp ID: 1254-CAL2C
Inj Date : 03-MAY-2018 16:00
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:37 Cal File: 050318059.D
Als bottle: 47 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			
5.247	5.248	-0.001	1204914	0.20000	0.21	0.00- 20.00	100.00(M)	BA
5.494	5.492	0.002	974768	0.20000	0.21	0.00- 20.00	80.90	BA
5.595	5.596	-0.001	1813406	0.20000	0.21	0.00- 20.00	150.50	BA
6.115	6.113	0.002	1103100	0.20000	0.21	0.00- 20.00	91.55	BA
6.386	6.387	-0.001	1532709	0.20000	0.21	0.00- 20.00	127.20	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\40GCSK.i\050318.b\050318047.D

Date : 03-MAY-2018 16:00

Client ID: 1254-CAL2C

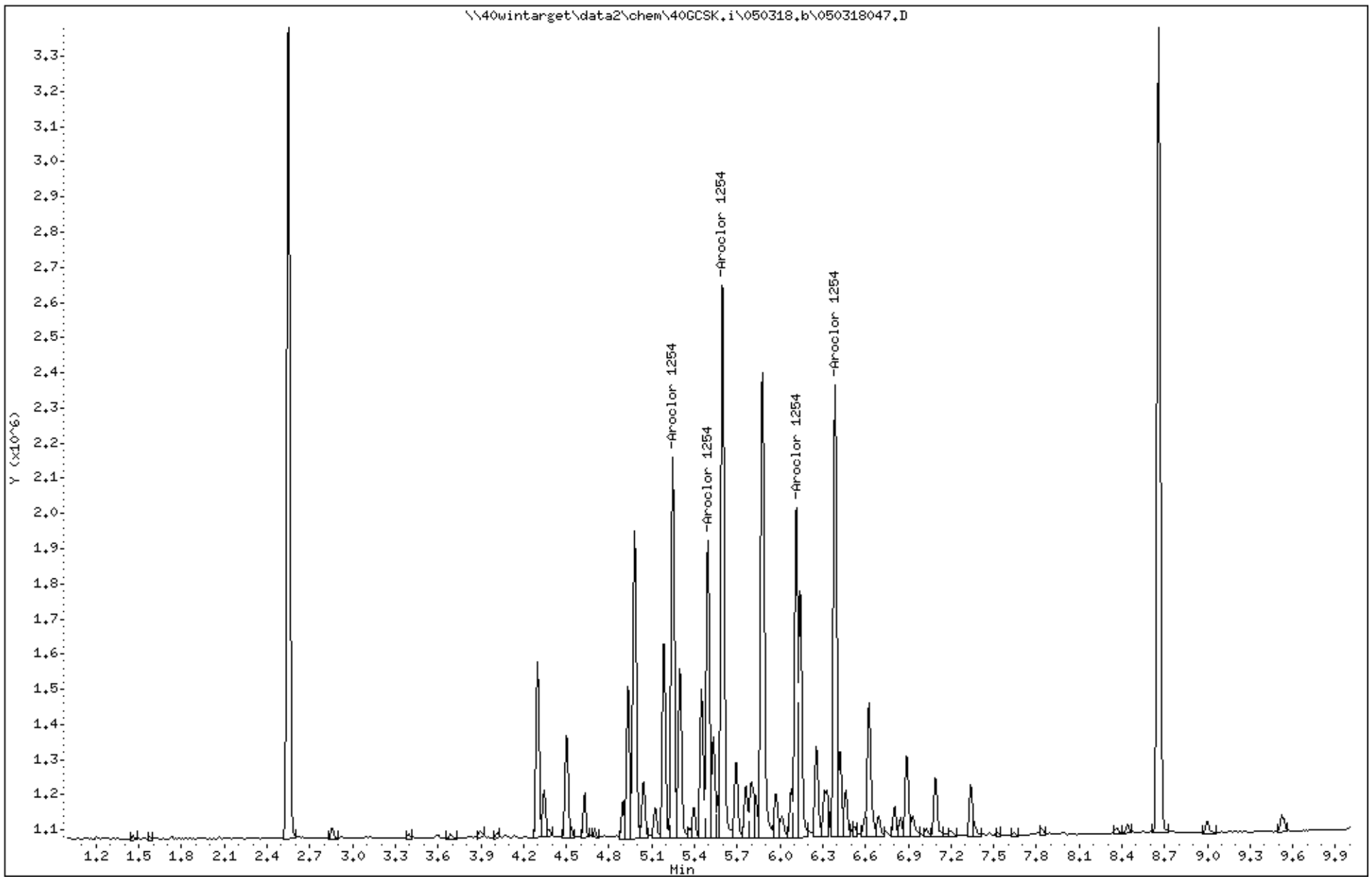
Instrument: 40GCSK.i

Sample Info: 1254-CAL2C, 185553:1

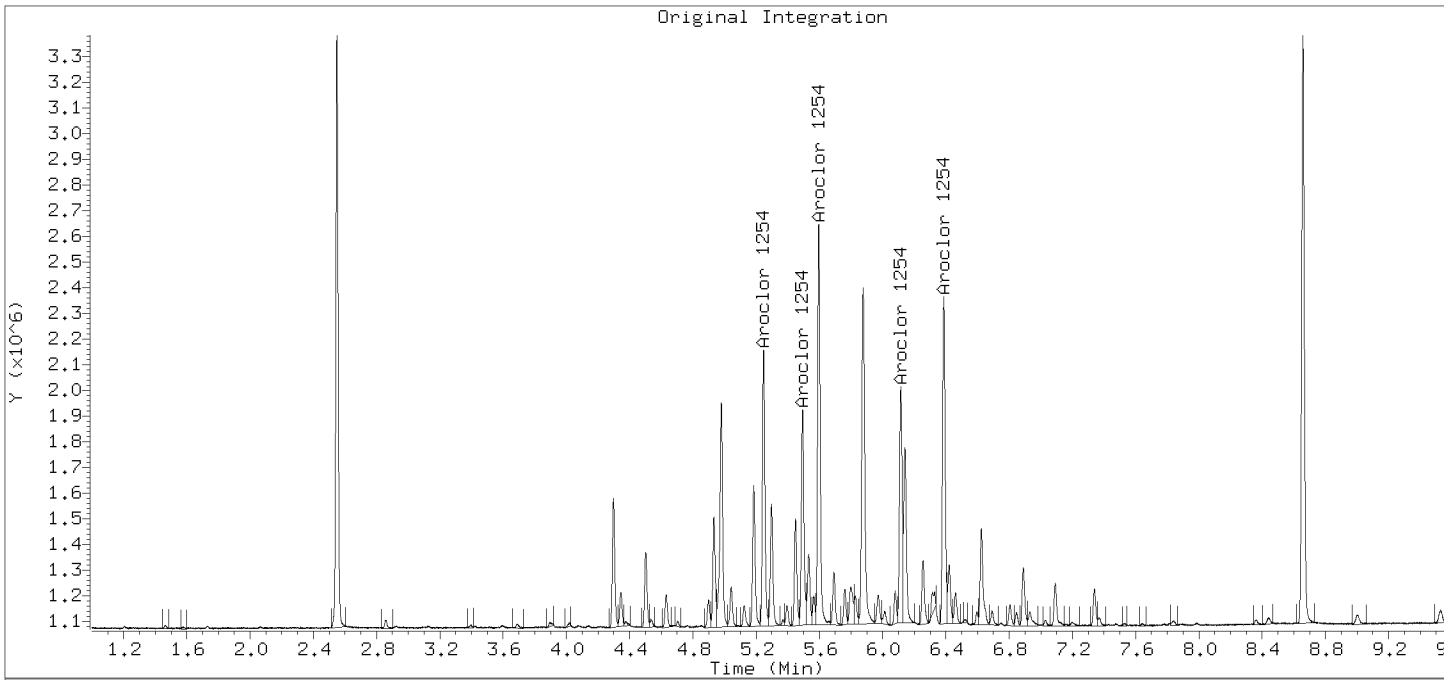
Operator: BLM

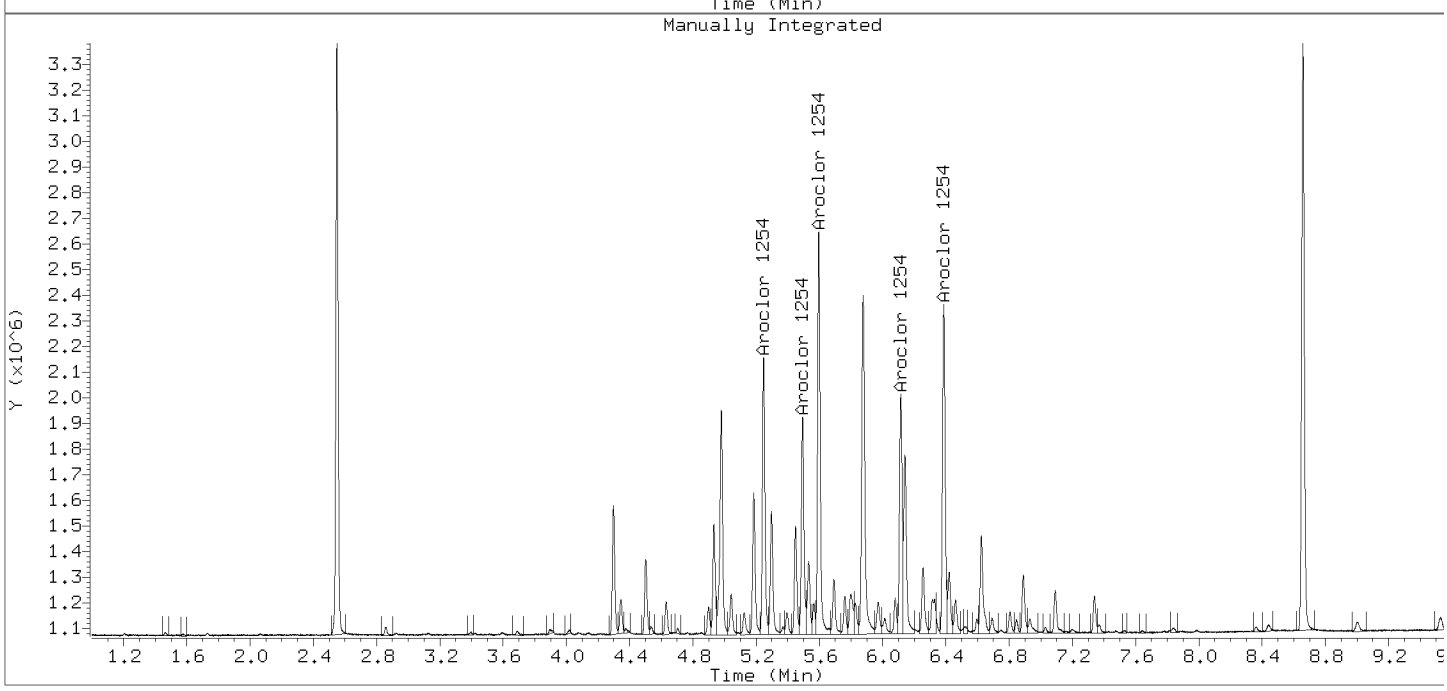
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318047.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 03-MAY-2018 16:00 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL2C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	1184550	1204914	BA
Aroclor 1254	1184550	1204914	BA
Aroclor 1254	1184550	1204914	BA
Aroclor 1254	1184550	1204914	BA
Aroclor 1254	1184550	1204914	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318049.D
Lab Smp Id: 1254-CAL3C Client Smp ID: 1254-CAL3C
Inj Date : 03-MAY-2018 16:16
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 49 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
1.204	37835	35474	0.938	0.06		
1.466	39597	35698	0.902	0.06		
1.576	18176	15489	0.852	0.03		
1.732	34365	32003	0.931	0.05		
2.061	23693	20781	0.877	0.04		
2.187	10101	8447	0.836	0.01		
2.550	5932452	5816414	0.980	10.05		
2.635	18983	11914	0.628	0.03		
2.692	10115	7094	0.701	0.01		
2.859	84961	81260	0.956	0.14		
2.923	19381	16844	0.869	0.03		
3.094	11343	13784	1.215	0.01		
3.126	18556	18060	0.973	0.03		
3.395	31651	30528	0.965	0.05		
3.422	18672	17504	0.937	0.03		
3.595	29336	21389	0.729	0.04		
3.690	37981	34842	0.917	0.06		
3.896	49944	38416	0.769	0.08		
4.017	57945	42879	0.740	0.09		
4.077	32868	24767	0.754	0.05		
4.135	44000	33113	0.753	0.07		
4.298	1292772	1191173	0.921	2.19		
4.345	367843	336923	0.916	0.62		
4.376	103943	61941	0.596	0.17		
4.437	12049	10184	0.845	0.02		
4.502	779300	732839	0.940	1.32		
4.537	84794	72452	0.854	0.14		
4.631	349343	314711	0.901	0.59		
4.676	13026	16600	1.274	0.02		
4.703	62037	55595	0.896	0.10		
4.765	11453	11835	1.033	0.01		
4.826	12538	10120	0.807	0.02		
4.854	22403	20240	0.903	0.03		
4.899	288873	269348	0.932	0.48		
4.934	1186043	1077721	0.909	2.01		
4.980	2596262	1981481	0.763	4.40		
5.043	457864	373896	0.817	0.77		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.125	261744	215755	0.824	0.44	
5.185	1519083	1320622	0.869	2.57	
5.248	2820996	2492333	0.883	4.78	7 Aroclor 1254
5.297	1339894	1139955	0.851	2.27	
5.371	78478	66897	0.852	0.13	
5.396	244180	210275	0.861	0.41	
5.450	1113776	1023899	0.919	1.88	
5.493	2359185	2038677	0.864	3.99	7 Aroclor 1254
5.532	826934	731388	0.884	1.40	
5.565	294996	288597	0.978	0.50	
5.597	4257857	3667028	0.861	7.21	7 Aroclor 1254
5.662	63960	50187	0.785	0.10	
5.692	616527	533934	0.866	1.04	
5.761	395193	359544	0.910	0.66	
5.798	582530	383686	0.659	0.98	
5.827	363835	298698	0.821	0.61	
5.877	4432898	3263759	0.736	7.51	
5.971	408091	291918	0.715	0.69	
6.014	227657	136073	0.598	0.38	
6.079	368305	335391	0.911	0.62	
6.114	2715408	2295921	0.846	4.60	7 Aroclor 1254
6.141	2099220	1672253	0.797	3.55	
6.255	811670	656830	0.809	1.37	
6.314	325653	323238	0.993	0.55	
6.327	370292	319230	0.862	0.62	
6.386	3689653	3134824	0.850	6.25	7 Aroclor 1254
6.421	697424	612540	0.878	1.18	
6.461	410361	308544	0.752	0.69	
6.522	116817	59043	0.505	0.19	
6.569	26996	22960	0.850	0.04	
6.597	141498	139354	0.985	0.23	
6.625	1265906	985732	0.779	2.14	
6.691	198604	147670	0.744	0.33	
6.747	42182	30697	0.728	0.07	
6.805	242570	201748	0.832	0.41	
6.847	148774	128853	0.866	0.25	
6.889	707464	598034	0.845	1.19	
6.929	227806	131125	0.576	0.38	
7.029	69143	56193	0.813	0.11	
7.091	510611	433920	0.850	0.86	
7.159	25013	18766	0.750	0.04	
7.200	21410	14925	0.697	0.03	
7.338	405949	373603	0.920	0.68	
7.369	94948	75940	0.800	0.16	
7.473	17738	16537	0.932	0.03	
7.528	27170	23543	0.867	0.04	
7.641	22620	18499	0.818	0.03	
7.775	17428	14750	0.846	0.02	
7.811	21798	19957	0.916	0.03	
7.837	27587	17033	0.617	0.04	
7.884	15072	11365	0.754	0.02	
7.988	25113	20638	0.822	0.04	
8.360	59088	47022	0.796	0.10	
8.439	19504	15486	0.794	0.03	
8.657	6539910	5484390	0.839	11.54	
9.004	20044	17972	0.897	0.03	
9.528	29817	18805	0.631	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
	58986878	50210315		100.000	

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318049.D
Lab Smp Id: 1254-CAL3C Client Smp ID: 1254-CAL3C
Inj Date : 03-MAY-2018 16:16
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 49 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			
5.247	5.248	-0.001	2820995	0.50000	0.50	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	2359184	0.50000	0.50	0.00- 20.00	83.63	BA
5.596	5.596	0.000	4257856	0.50000	0.50	0.00- 20.00	150.93	BA
6.114	6.113	0.001	2715407	0.50000	0.51	0.00- 20.00	96.26	BA
6.385	6.387	-0.002	3689653	0.50000	0.50	0.00- 20.00	130.79	BA
Average of Peak Amounts =					0.50200			

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\40GCSK.i\050318.b\050318049.D

Date : 03-MAY-2018 16:16

Client ID: 1254-CAL3C

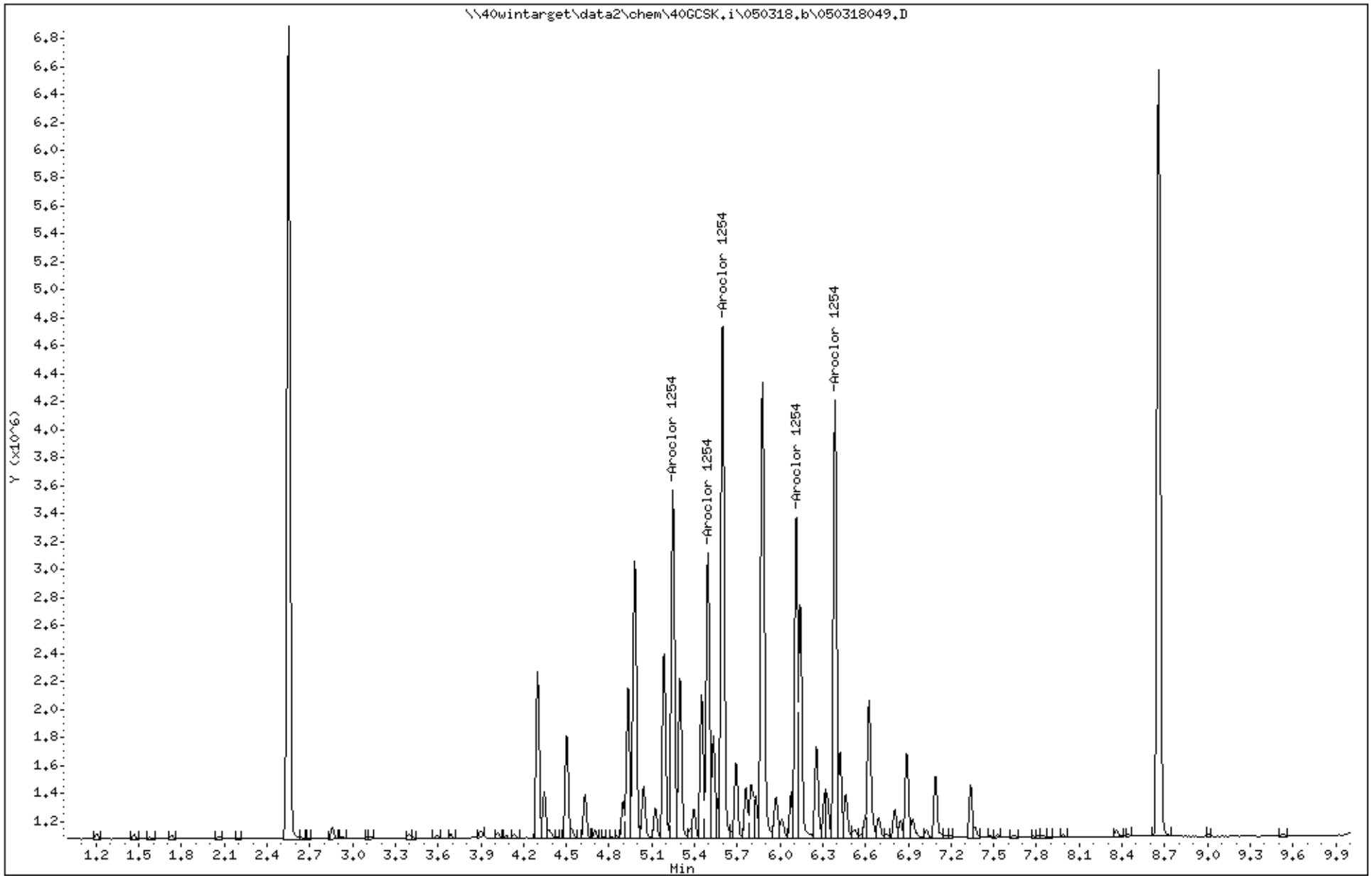
Instrument: 40GCSK.i

Sample Info: 1254-CAL3C, 185554:1

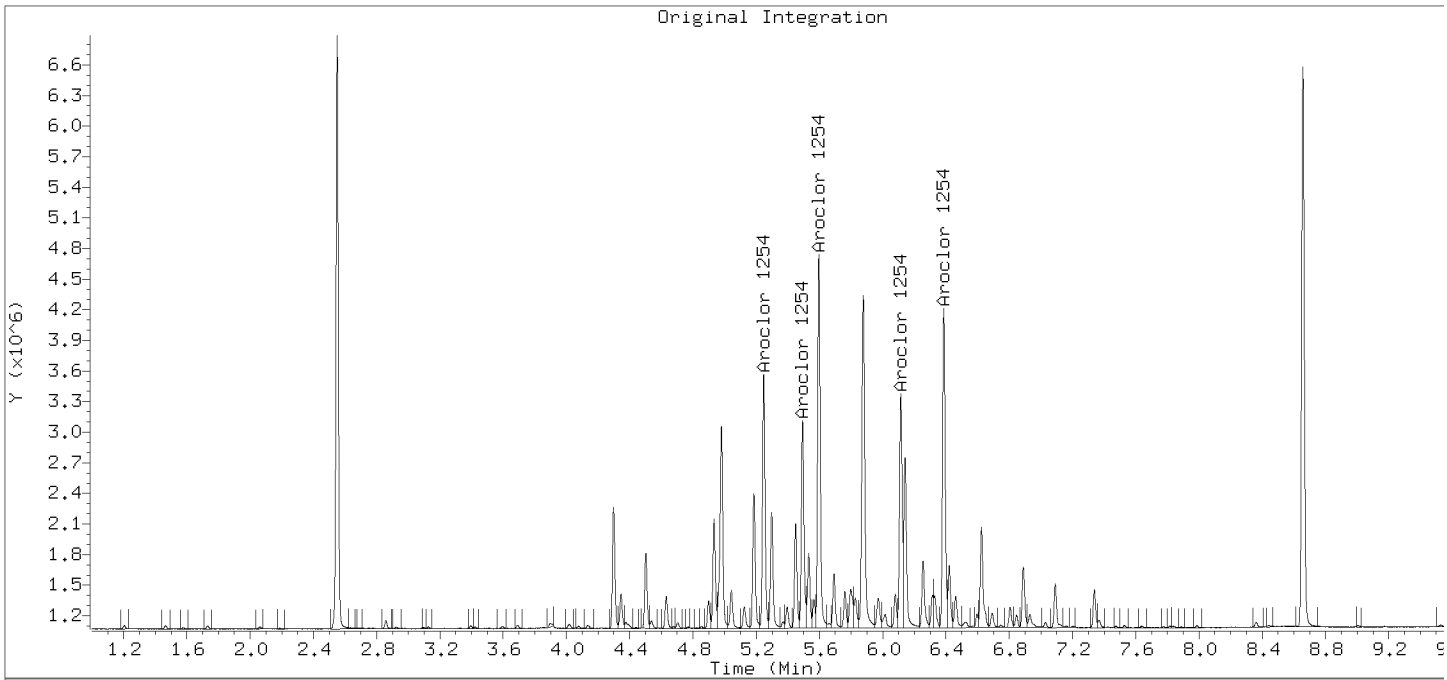
Operator: BLM

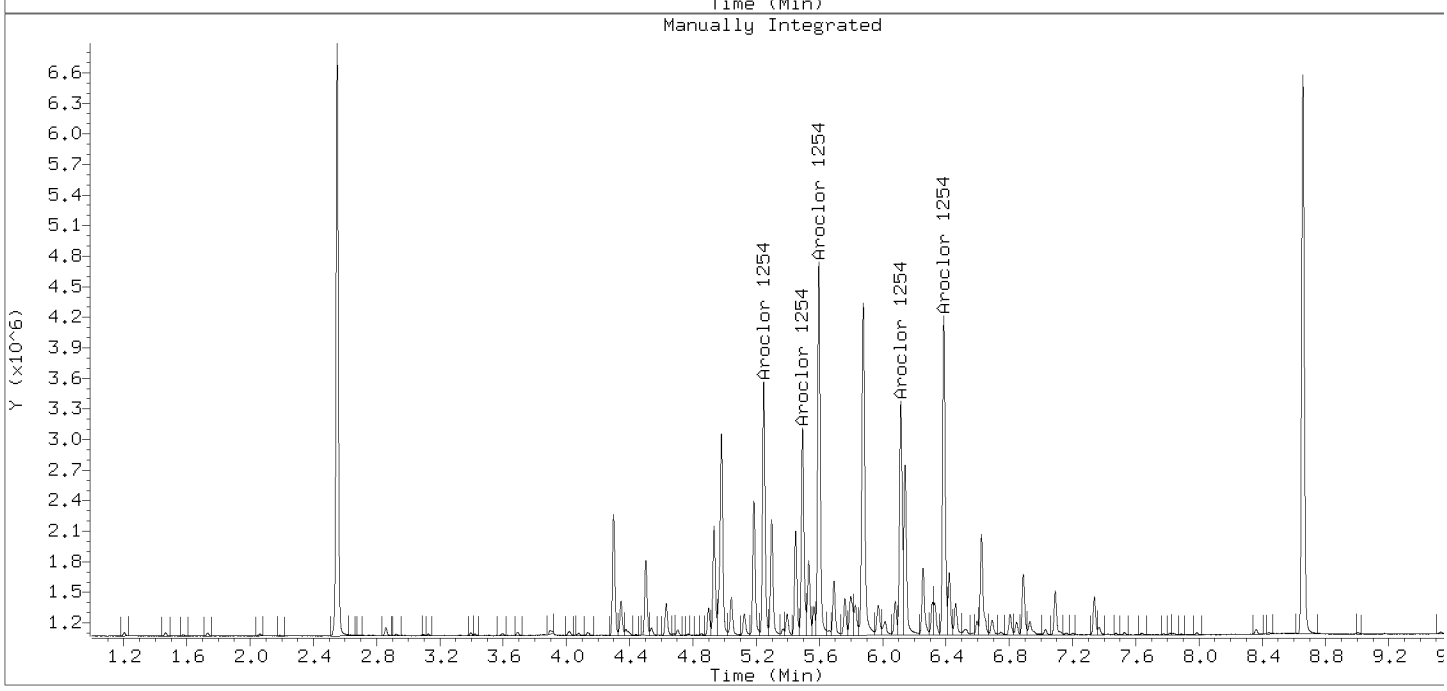
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318049.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 03-MAY-2018 16:16 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL3C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2816439	2820995	BA
Aroclor 1254	2816439	2820995	BA
Aroclor 1254	2816439	2820995	BA
Aroclor 1254	2816439	2820995	BA
Aroclor 1254	2816439	2820995	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318051.D
Lab Smp Id: 1254-CAL4C Client Smp ID: 1254-CAL4C
Inj Date : 03-MAY-2018 16:33
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:09 Cal File: 050318063.D
Als bottle: 51 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
1.465	65684	61659	0.939	0.06		
1.577	31537	27048	0.858	0.03		
1.733	12366	12998	1.051	0.01		
2.550	11683383	11632747	0.996	12.38		
2.637	26720	14830	0.555	0.02		
2.859	159527	150368	0.943	0.16		
2.926	27612	22793	0.825	0.02		
3.128	33021	28927	0.876	0.03		
3.397	44737	41720	0.933	0.04		
3.423	22264	22658	1.018	0.02		
3.595	44753	32102	0.717	0.04		
3.692	72020	65910	0.915	0.07		
3.897	153312	74518	0.486	0.16		
4.018	81357	63382	0.779	0.08		
4.079	34168	27641	0.809	0.03		
4.141	26093	21512	0.824	0.02		
4.298	1927412	1794044	0.931	2.04		
4.345	536162	509102	0.950	0.56		
4.377	91194	68612	0.752	0.09		
4.502	1197329	1118396	0.934	1.26		
4.538	126416	109095	0.863	0.13		
4.631	547052	495193	0.905	0.57		
4.677	25587	26088	1.020	0.02		
4.705	100442	84951	0.846	0.10		
4.768	21917	21338	0.974	0.02		
4.821	12095	10981	0.908	0.01		
4.856	26497	25464	0.961	0.02		
4.899	440866	424263	0.962	0.46		
4.933	1793346	1617117	0.902	1.90		
4.980	3945093	3097918	0.785	4.18		
5.043	683611	584001	0.854	0.72		
5.124	393711	327766	0.833	0.41		
5.185	2282401	1981406	0.868	2.41		
5.247	4265468	3851747	0.903	4.51	7 Aroclor 1254	BA
5.298	2014750	1726517	0.857	2.13		
5.371	103933	101295	0.975	0.11		
5.395	363491	315114	0.867	0.38		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.449	1698997	1522319	0.896	1.80	
5.493	3602658	3189660	0.885	3.81	7 Aroclor 1254
5.532	1273481	1101311	0.865	1.34	
5.565	450864	442328	0.981	0.47	
5.596	6550878	5920954	0.904	6.94	7 Aroclor 1254
5.661	82459	72405	0.878	0.08	
5.691	946985	808121	0.853	1.00	
5.761	590445	548094	0.928	0.62	
5.798	884538	603241	0.682	0.93	
5.826	591834	473013	0.799	0.62	
5.876	6761205	5265675	0.779	7.16	
5.972	613558	459719	0.749	0.65	
6.015	336284	208057	0.619	0.35	
6.078	560655	523254	0.933	0.59	
6.114	4202015	3447687	0.820	4.45	7 Aroclor 1254
6.141	3138434	2580695	0.822	3.32	
6.255	1230649	1021355	0.830	1.30	
6.313	489163	512093	1.047	0.51	
6.328	582659	487233	0.836	0.61	
6.386	5660183	4791028	0.846	5.99	7 Aroclor 1254
6.421	1080088	942313	0.872	1.14	
6.462	620777	483904	0.780	0.65	
6.524	154276	82086	0.532	0.16	
6.568	30343	29586	0.975	0.03	
6.596	213357	211456	0.991	0.22	
6.625	1935628	1497645	0.774	2.05	
6.692	287310	216730	0.754	0.30	
6.745	54191	39587	0.731	0.05	
6.805	359451	307282	0.855	0.38	
6.846	216621	192842	0.890	0.22	
6.889	1089060	926460	0.851	1.15	
6.930	320881	196565	0.613	0.34	
7.028	93162	81639	0.876	0.09	
7.091	780203	647722	0.830	0.82	
7.158	30199	24153	0.800	0.03	
7.338	629536	559662	0.889	0.66	
7.368	137748	117880	0.856	0.14	
7.474	23193	24382	1.051	0.02	
7.529	39318	34748	0.884	0.04	
7.639	20973	20106	0.959	0.02	
7.777	22594	20265	0.897	0.02	
7.816	48391	32644	0.675	0.05	
7.888	19778	15264	0.772	0.02	
7.986	35220	31361	0.890	0.03	
8.362	104579	86428	0.826	0.11	
8.657	12334179	10422811	0.845	13.50	
9.173	14317	11451	0.800	0.01	
9.528	11846	8418	0.711	0.01	
	94372489	81834853		100.000	

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318051.D
Lab Smp Id: 1254-CAL4C Client Smp ID: 1254-CAL4C
Inj Date : 03-MAY-2018 16:33
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:09 Cal File: 050318063.D
Als bottle: 51 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			
5.247	5.248	-0.001	4265468	0.80000	0.76	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	3602657	0.80000	0.77	0.00- 20.00	84.46	BA
5.596	5.596	0.000	6550878	0.80000	0.76	0.00- 20.00	153.58	BA
6.113	6.113	0.000	4202015	0.80000	0.79	0.00- 20.00	98.51	BA
6.386	6.387	-0.001	5660182	0.80000	0.77	0.00- 20.00	132.70	BA
Average of Peak Amounts =					0.77000			

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\40GCSK.i\050318.b\050318051.D

Date : 03-MAY-2018 16:33

Client ID: 1254-CAL4C

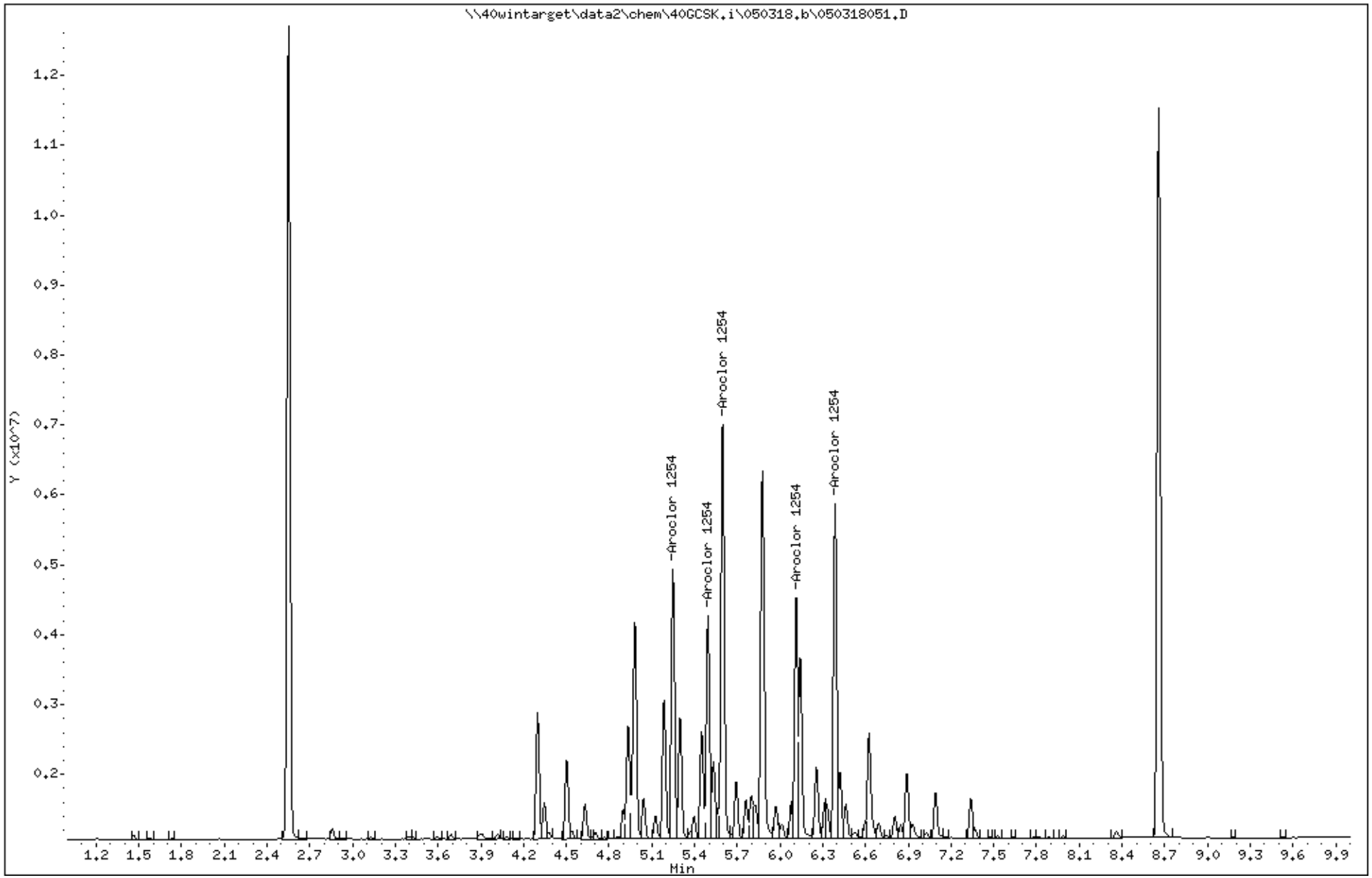
Instrument: 40GCSK.i

Sample Info: 1254-CAL4C, 185555:1

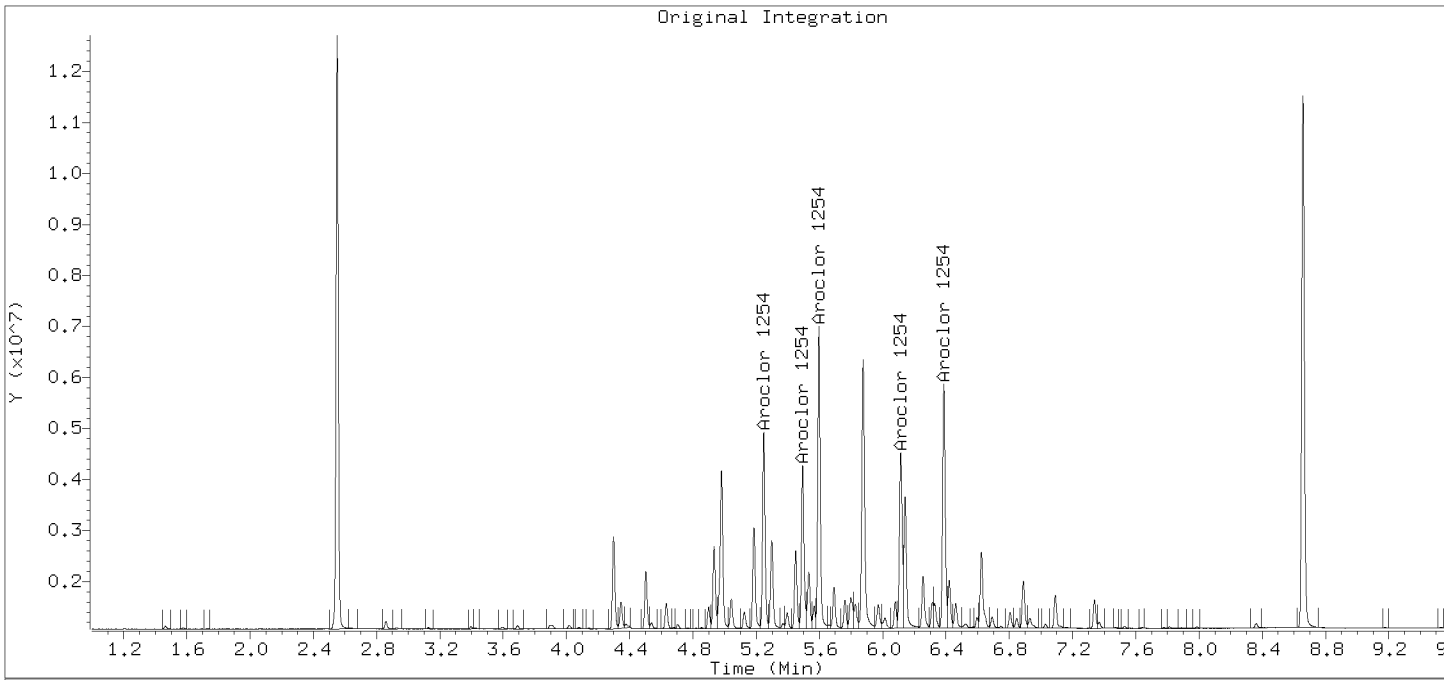
Operator: BLM

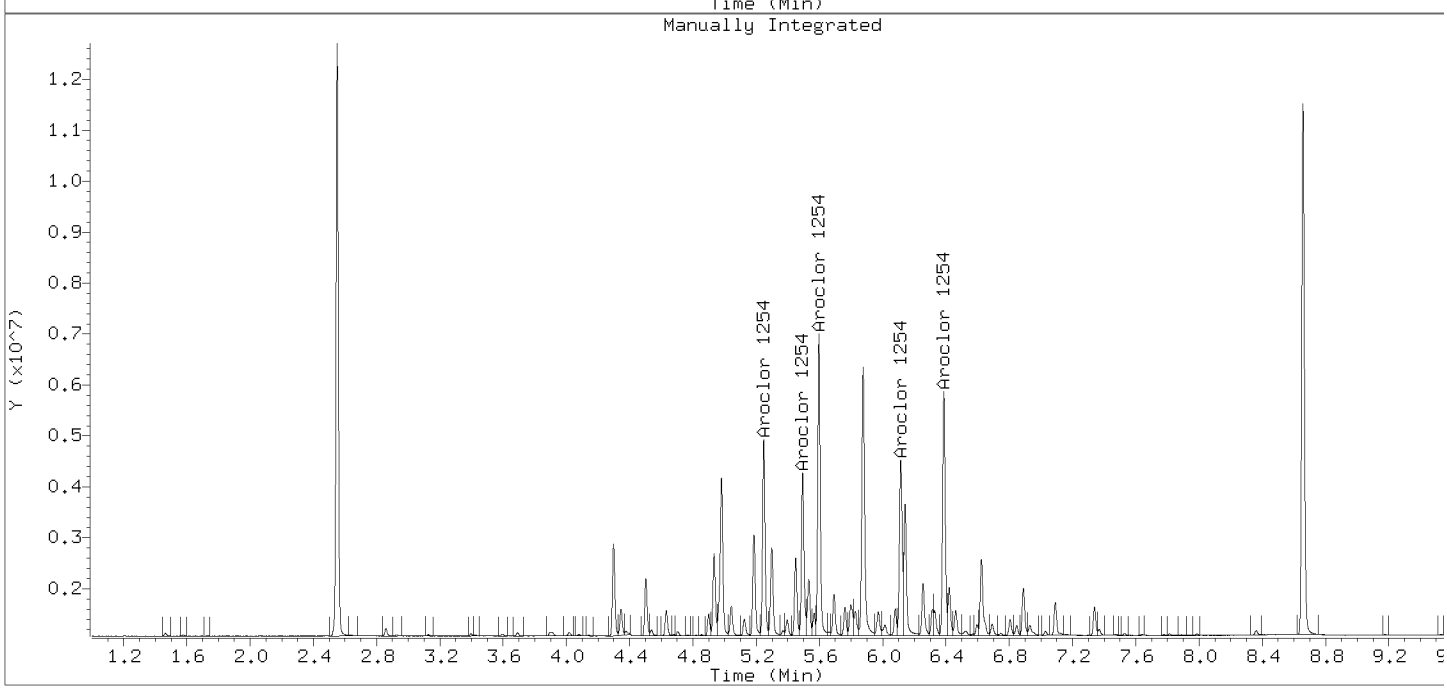
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318051.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 03-MAY-2018 16:33 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL4C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	4259785	4265468	BA
Aroclor 1254	4259785	4265468	BA
Aroclor 1254	4259785	4265468	BA
Aroclor 1254	4259785	4265468	BA
Aroclor 1254	4259785	4265468	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318053.D
Lab Smp Id: 1254-CAL5C Client Smp ID: 1254-CAL5C
Inj Date : 03-MAY-2018 16:49
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 53 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
1.465	94334	86720	0.919	0.07		
1.576	36255	34026	0.939	0.02		
1.732	17140	14805	0.864	0.01		
2.550	17051478	16946835	0.994	14.06		
2.639	22453	18346	0.817	0.01		
2.859	220655	213532	0.968	0.18		
2.927	36286	27800	0.766	0.02		
3.126	42563	39252	0.922	0.03		
3.396	52012	50388	0.969	0.04		
3.424	26224	27473	1.048	0.02		
3.592	32608	29565	0.907	0.02		
3.691	107216	98994	0.923	0.08		
3.813	13209	11542	0.874	0.01		
3.839	9830	12473	1.269	0.00		
3.896	102271	73903	0.723	0.08		
4.020	112605	77763	0.691	0.09		
4.079	51765	35867	0.693	0.04		
4.142	33783	28623	0.847	0.02		
4.222	12944	13230	1.022	0.01		
4.298	2315280	2151788	0.929	1.90		
4.345	684998	636086	0.929	0.56		
4.377	169950	103681	0.610	0.14		
4.502	1444478	1336988	0.926	1.19		
4.538	164640	133752	0.812	0.13		
4.631	653091	599940	0.919	0.53		
4.677	25779	28683	1.113	0.02		
4.704	110616	102750	0.929	0.09		
4.766	30433	24898	0.818	0.02		
4.855	36721	33792	0.920	0.03		
4.899	547237	514211	0.940	0.45		
4.933	2162870	1965897	0.909	1.78		
4.980	4735184	3665602	0.774	3.90		
5.043	829431	710466	0.857	0.68		
5.124	484685	410303	0.847	0.39		
5.185	2751118	2404196	0.874	2.26		
5.247	5147482	4568390	0.887	4.24	7 Aroclor 1254	BA
5.298	2413870	2105073	0.872	1.99		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.370	138573	121039	0.873	0.11	
5.395	438665	387223	0.883	0.36	
5.449	2036584	1831316	0.899	1.67	
5.494	4385746	3852821	0.878	3.61	7 Aroclor 1254
5.533	1537460	1338919	0.871	1.26	
5.565	549124	535190	0.975	0.45	
5.596	7950560	7103175	0.893	6.55	7 Aroclor 1254
5.664	96913	84405	0.871	0.07	
5.692	1152364	1005968	0.873	0.95	
5.761	726308	677496	0.933	0.59	
5.799	1106459	742290	0.671	0.91	
5.826	701585	567727	0.809	0.57	
5.876	8232694	6386108	0.776	6.79	
5.971	748845	562793	0.752	0.61	
6.015	420548	254894	0.606	0.34	
6.079	681450	635494	0.933	0.56	
6.115	5115409	4233800	0.828	4.21	7 Aroclor 1254
6.141	3831855	3076138	0.803	3.16	
6.255	1502470	1234099	0.821	1.23	
6.314	655939	643199	0.981	0.54	
6.329	672542	603144	0.897	0.55	
6.386	6918347	5807228	0.839	5.70	7 Aroclor 1254
6.421	1316858	1131554	0.859	1.08	
6.462	764690	609103	0.797	0.63	
6.523	201974	104245	0.516	0.16	
6.571	39280	37864	0.964	0.03	
6.597	270894	258316	0.954	0.22	
6.624	2365431	1810281	0.765	1.95	
6.692	363846	277910	0.764	0.30	
6.747	67363	53138	0.789	0.05	
6.805	456988	389283	0.852	0.37	
6.846	267541	240335	0.898	0.22	
6.889	1370844	1166806	0.851	1.13	
6.930	395439	246723	0.624	0.32	
7.029	125501	106467	0.848	0.10	
7.091	958695	795363	0.830	0.79	
7.163	39793	34404	0.865	0.03	
7.210	31482	16729	0.531	0.02	
7.303	9681	8830	0.912	0.00	
7.339	791579	686316	0.867	0.65	
7.368	187084	149994	0.802	0.15	
7.428	25072	15619	0.623	0.02	
7.476	44530	33430	0.751	0.03	
7.530	56979	45820	0.804	0.04	
7.640	37498	33355	0.890	0.03	
7.779	21862	22077	1.010	0.01	
7.816	45182	41661	0.922	0.03	
7.887	17521	19811	1.131	0.01	
7.989	42040	36301	0.863	0.03	
8.362	142934	126713	0.887	0.11	
8.442	20192	15214	0.753	0.01	
8.607	10919	12976	1.188	0.00	
8.658	18249779	15515986	0.850	15.50	
9.002	35513	24490	0.690	0.02	
9.172	27699	16350	0.590	0.02	
9.527	56480	33752	0.598	0.04	
	121243103	105139315		100.000	

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318053.D
Lab Smp Id: 1254-CAL5C Client Smp ID: 1254-CAL5C
Inj Date : 03-MAY-2018 16:49
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17762,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 53 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			
5.247	5.248	-0.001	5147482	1.00000	0.91	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	4385746	1.00000	0.94	0.00- 20.00	85.20	BA
5.595	5.596	-0.001	7950560	1.00000	0.93	0.00- 20.00	154.46	BA
6.114	6.113	0.001	5115408	1.00000	0.96	0.00- 20.00	99.38	BA
6.386	6.387	-0.001	6918346	1.00000	0.94	0.00- 20.00	134.40	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\40GCSK.i\050318.b\050318053.D

Date : 03-MAY-2018 16:49

Client ID: 1254-CAL5C

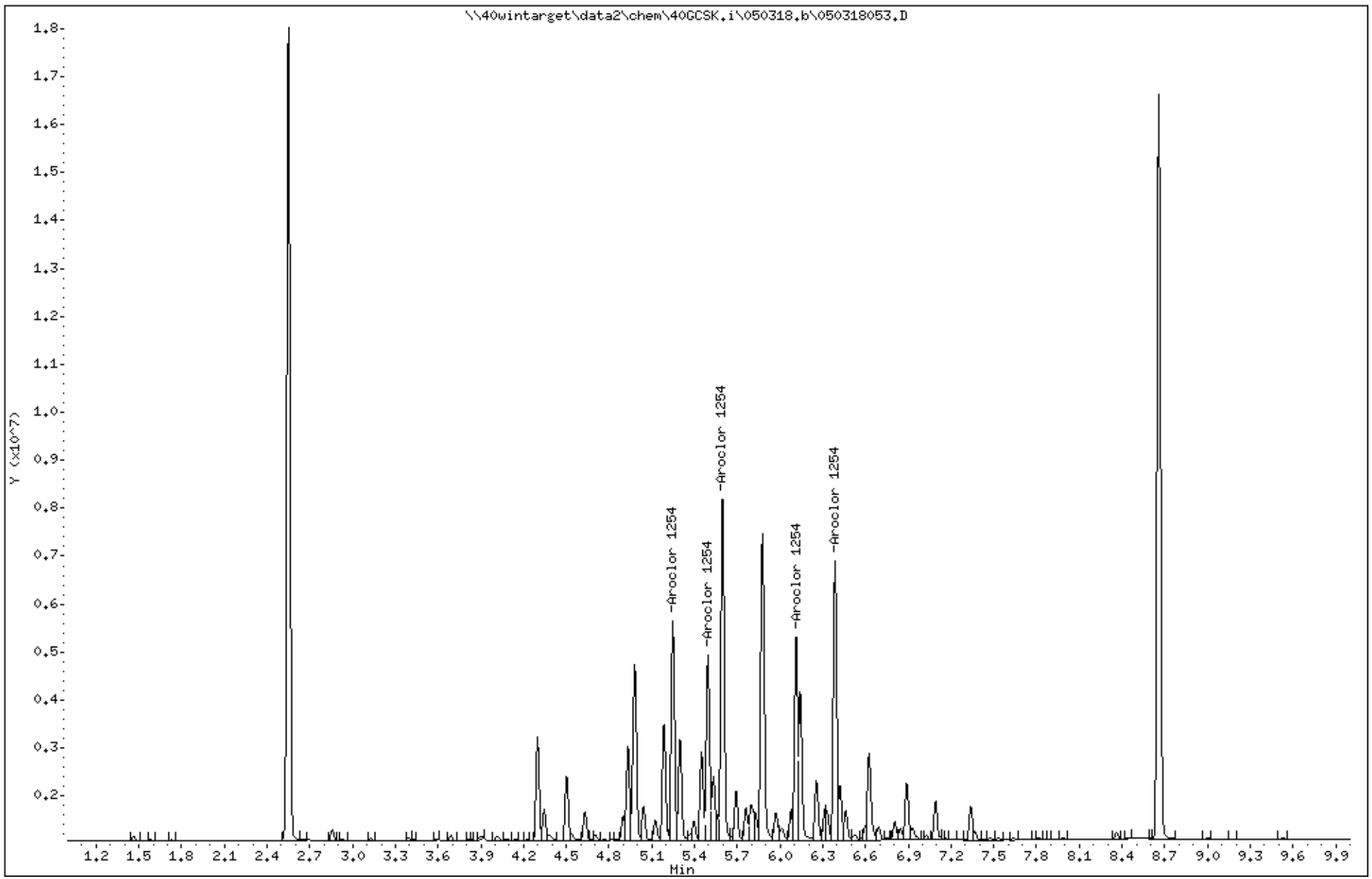
Instrument: 40GCSK.i

Sample Info: 1254-CAL5C, 185556:1

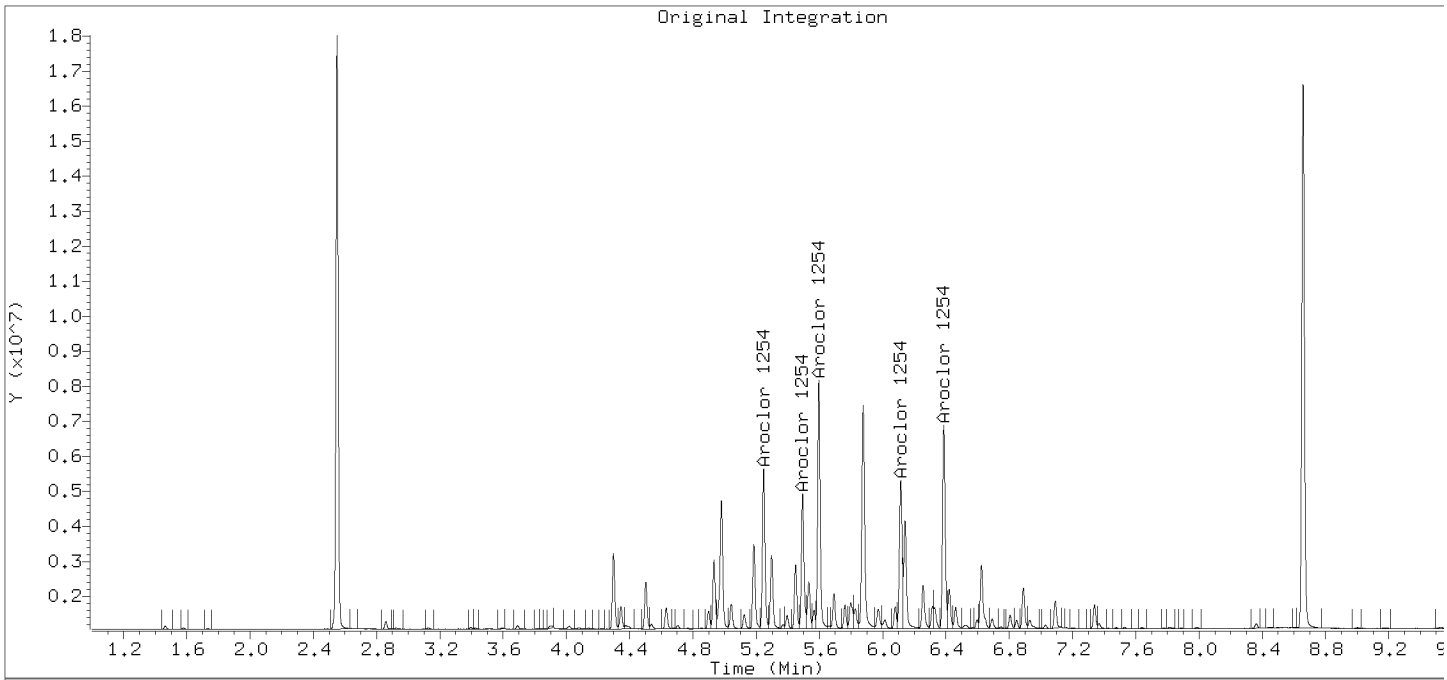
Operator: BLM

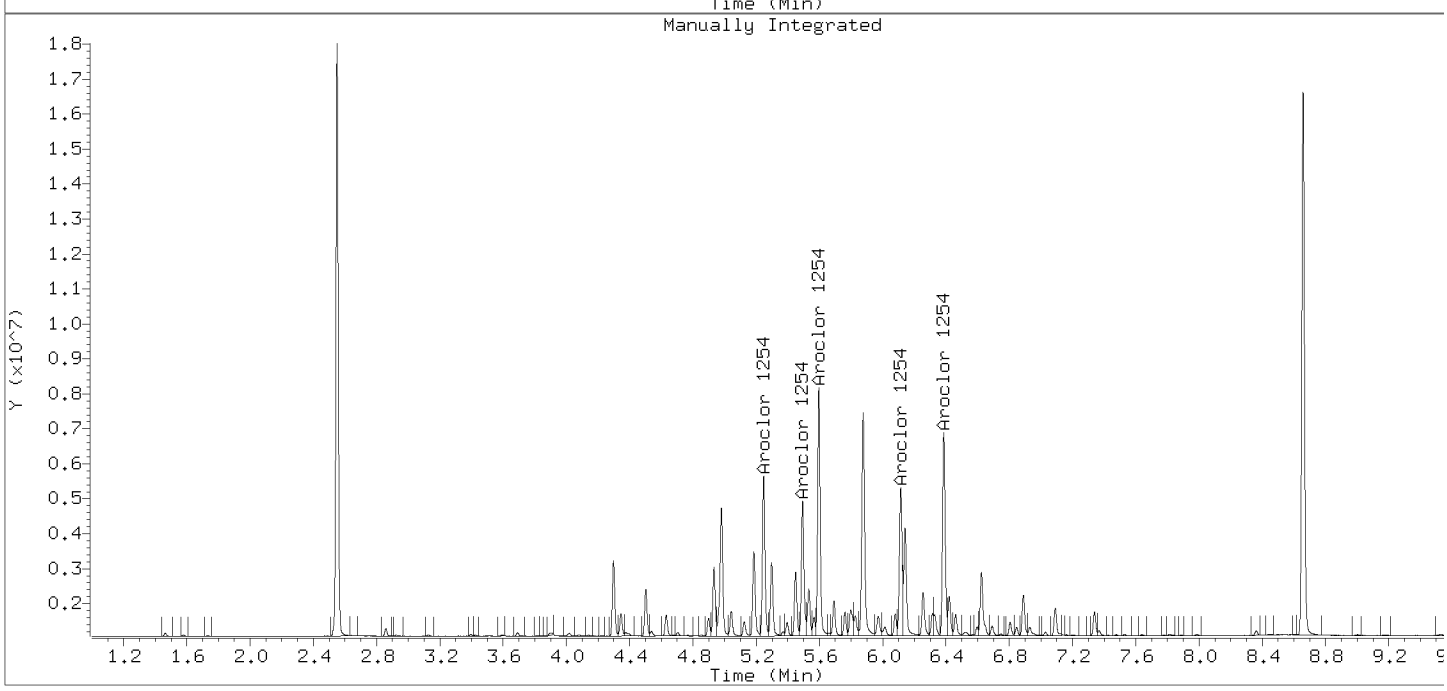
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318053.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 03-MAY-2018 16:49 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL5C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	5127685	5147482	BA
Aroclor 1254	5127685	5147482	BA
Aroclor 1254	5127685	5147482	BA
Aroclor 1254	5127685	5147482	BA
Aroclor 1254	5127685	5147482	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318057.D
Lab Smp Id: 1660-CAL1A Client Smp ID: 1660-CAL1A
Inj Date : 03-MAY-2018 17:21
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:21 Cal File: 050318057.D
Als bottle: 57 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
1.465	10247	9652	0.942	0.05		
1.732	14350	12450	0.868	0.07		
2.468	36532	24347	0.666	0.18		
2.549	1227409	1217132	0.992	6.12	$ 2 Tetrachloro-m-xylene	
2.756	42687	31112	0.729	0.21		
2.861	69719	55931	0.802	0.34		
2.924	243914	203480	0.834	1.21		
3.130	37053	32411	0.875	0.18		
3.396	322684	304278	0.943	1.60	5 Aroclor 1016	BA
3.421	215868	179673	0.832	1.07		
3.514	61445	48044	0.782	0.30		
3.593	342688	235856	0.688	1.70	5 Aroclor 1016	BA
3.778	12543	11477	0.915	0.06		
3.815	84766	75498	0.891	0.42		
3.838	60858	49359	0.811	0.30		
3.910	979205	517819	0.529	4.88	5 Aroclor 1016	BA
4.013	428320	312930	0.731	2.13	5 Aroclor 1016	BA
4.079	284693	226580	0.796	1.41	5 Aroclor 1016	BA
4.144	95783	74440	0.777	0.47		
4.220	47557	30577	0.643	0.23		
4.298	249804	222516	0.891	1.24		
4.345	223814	202492	0.905	1.11		
4.377	92449	94775	1.025	0.46		
4.393	132590	107876	0.814	0.66		
4.502	300026	278211	0.927	1.49		
4.537	243650	174043	0.714	1.21		
4.632	402541	336843	0.837	2.00		
4.703	94872	80696	0.851	0.47		
4.810	20642	15065	0.730	0.10		
4.852	16498	13417	0.813	0.08		
4.899	71514	59090	0.826	0.35		
4.935	114099	92519	0.811	0.56		
4.981	367590	263634	0.717	1.83		
5.042	31961	21994	0.688	0.15		
5.124	26737	18762	0.702	0.13		
5.187	84559	66271	0.784	0.42		
5.248	305589	259096	0.848	1.52		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.448	24666	19310	0.783	0.12	
5.493	84190	69977	0.831	0.41	
5.566	123949	109795	0.886	0.61	
5.597	209060	171966	0.823	1.04	
5.761	302587	277877	0.918	1.50	
5.794	204612	118225	0.578	1.02	
5.872	801684	657691	0.820	3.99	
5.970	58037	46868	0.808	0.28	
6.014	34635	22947	0.663	0.17	
6.080	131616	118014	0.897	0.65	
6.117	271125	270698	0.998	1.35	
6.141	911552	765770	0.840	4.54	
6.255	539217	325985	0.605	2.68	
6.344	119272	74215	0.622	0.59	
6.387	1045305	836242	0.800	5.21	8 Aroclor 1260
6.420	173431	134513	0.776	0.86	
6.461	59449	34925	0.587	0.29	
6.518	112865	94792	0.840	0.56	
6.572	22738	29840	1.312	0.11	
6.596	514407	457840	0.890	2.56	
6.624	95191	98434	1.034	0.47	
6.647	325459	274084	0.842	1.62	
6.694	46415	27915	0.601	0.23	
6.748	106289	88052	0.828	0.53	
6.805	547247	482862	0.882	2.72	
6.847	315822	271911	0.861	1.57	
6.891	247950	208600	0.841	1.23	
6.924	55965	44915	0.803	0.27	
6.956	30891	25267	0.818	0.15	
7.000	35541	33701	0.948	0.17	
7.029	111886	94963	0.849	0.55	
7.091	1218315	1024411	0.841	6.07	8 Aroclor 1260
7.119	100728	96137	0.954	0.50	
7.161	56883	36867	0.648	0.28	
7.206	59770	46158	0.772	0.29	
7.338	569122	493548	0.867	2.83	8 Aroclor 1260
7.370	181180	136845	0.755	0.90	
7.476	298191	235098	0.788	1.48	
7.530	356951	293810	0.823	1.78	8 Aroclor 1260
7.640	24618	20999	0.853	0.12	
7.778	143129	124849	0.872	0.71	
7.815	28185	22171	0.787	0.14	
7.885	28937	15927	0.550	0.14	
7.987	330223	256266	0.776	1.64	8 Aroclor 1260
8.052	28512	22127	0.776	0.14	
8.361	90146	70358	0.780	0.44	
8.658	1475186	1246378	0.845	7.78	$ 12 Decachlorobiphenyl
	20050386	16390489		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318057.D
Lab Smp Id: 1660-CAL1A Client Smp ID: 1660-CAL1A
Inj Date : 03-MAY-2018 17:21
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:21 Cal File: 050318057.D
Als bottle: 57 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			
2.549	2.549	0.000	1227409	0.01000	0.010			
5 Aroclor 1016					CAS #: 12674-11-2			
3.396	3.395	0.001	322683	0.10000	0.10	0.00- 20.00	100.00(M)	BA
3.592	3.592	0.000	342687	0.10000	0.11	0.00- 20.00	106.20	BA
3.910	3.909	0.001	979205	0.10000	0.10	0.00- 20.00	303.46	BA
4.012	4.011	0.001	428319	0.10000	0.11	0.00- 20.00	132.74	BA
4.079	4.078	0.001	284693	0.10000	0.10	0.00- 20.00	88.23	BA
Average of Peak Amounts =					0.10400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	1045304	0.10000	0.10	0.00- 20.00	100.00(M)	CO
7.090	7.090	0.000	1218315	0.10000	0.10	0.00- 20.00	116.55	CO
7.338	7.338	0.000	569122	0.10000	0.10	0.00- 20.00	54.45	CO
7.529	7.529	0.000	356951	0.10000	0.10	0.00- 20.00	34.15	CO
7.987	7.987	0.000	330223	0.10000	0.10	0.00- 20.00	31.59	CO
Average of Peak Amounts =					0.10000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	1475185	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\40GCSK.i\050318.b\050318057.D

Date : 03-MAY-2018 17:21

Client ID: 1660-CAL1A

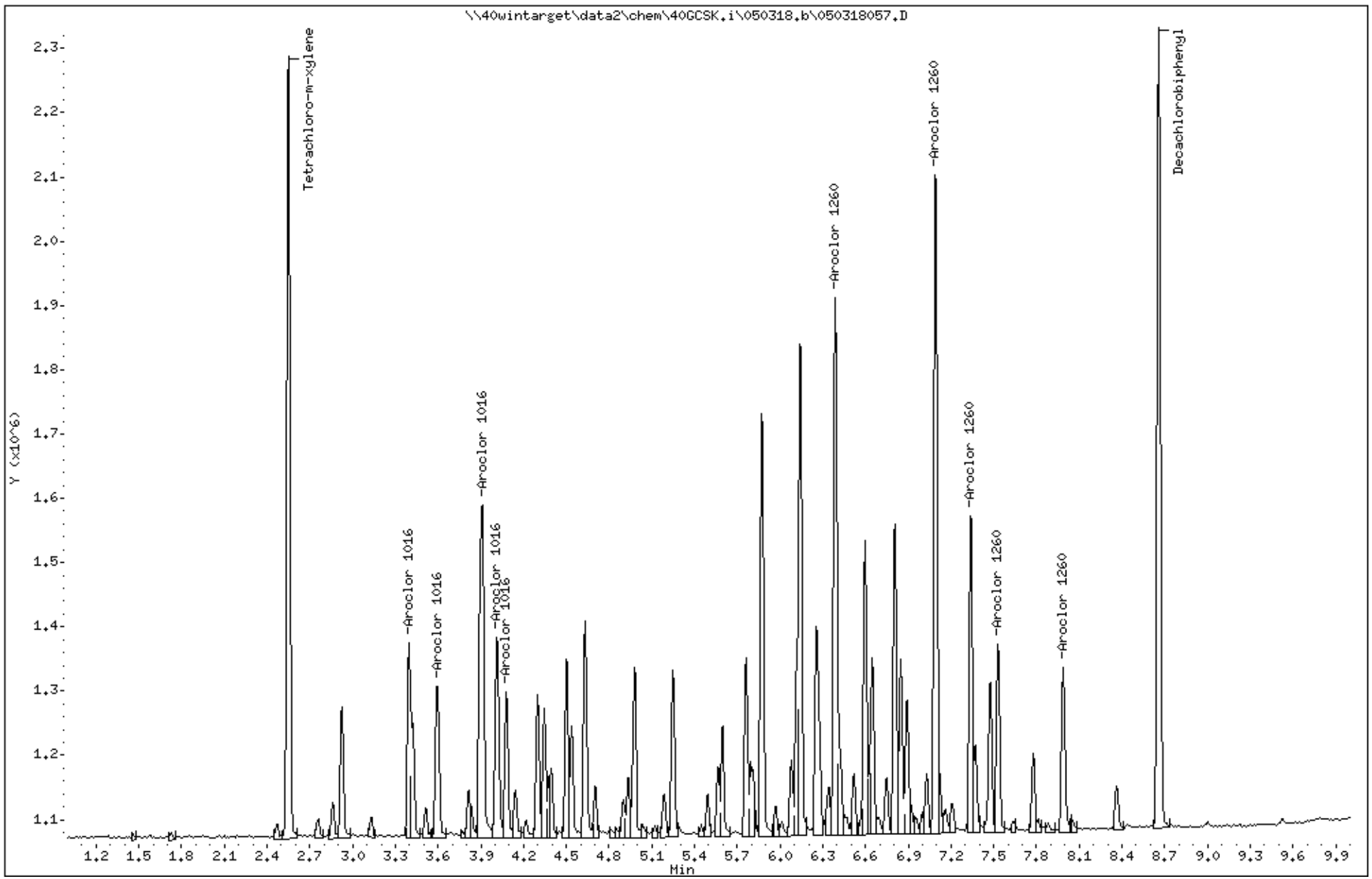
Instrument: 40GCSK.i

Sample Info: 1660-CAL1A, 188136:1

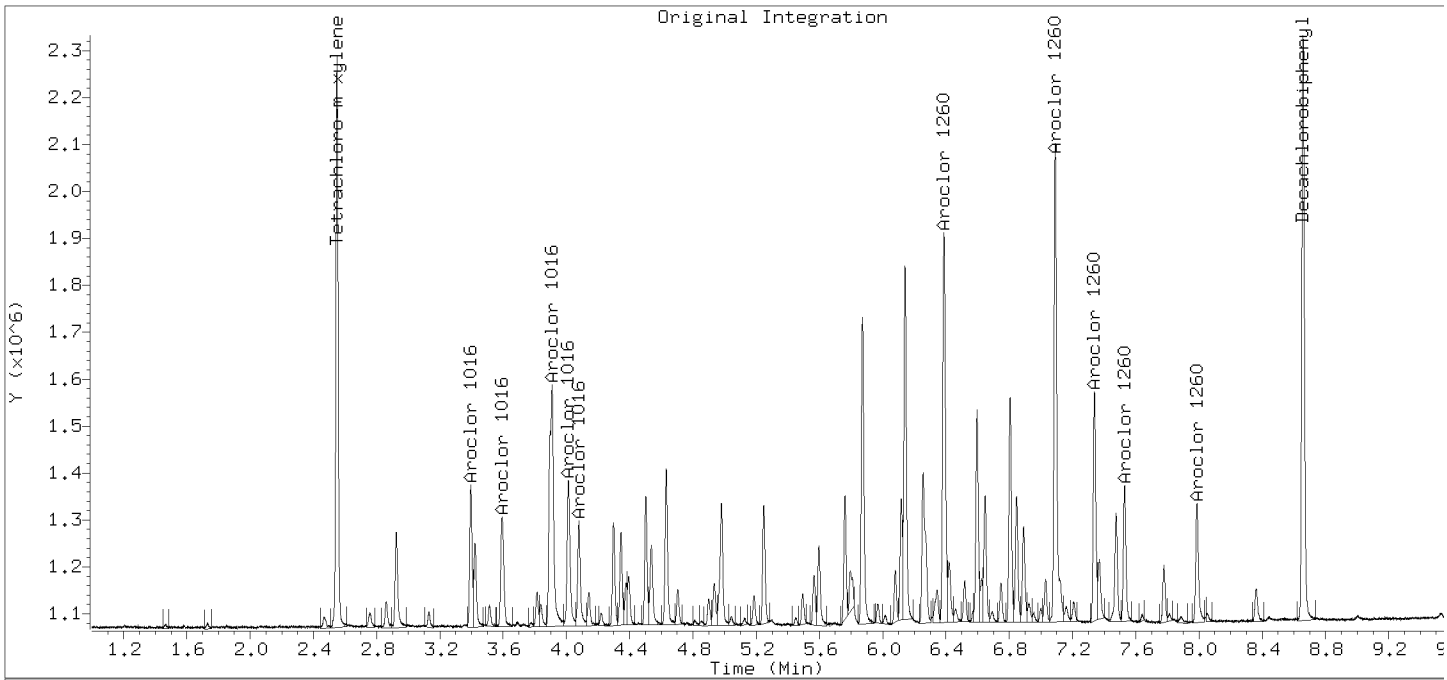
Operator: BLM

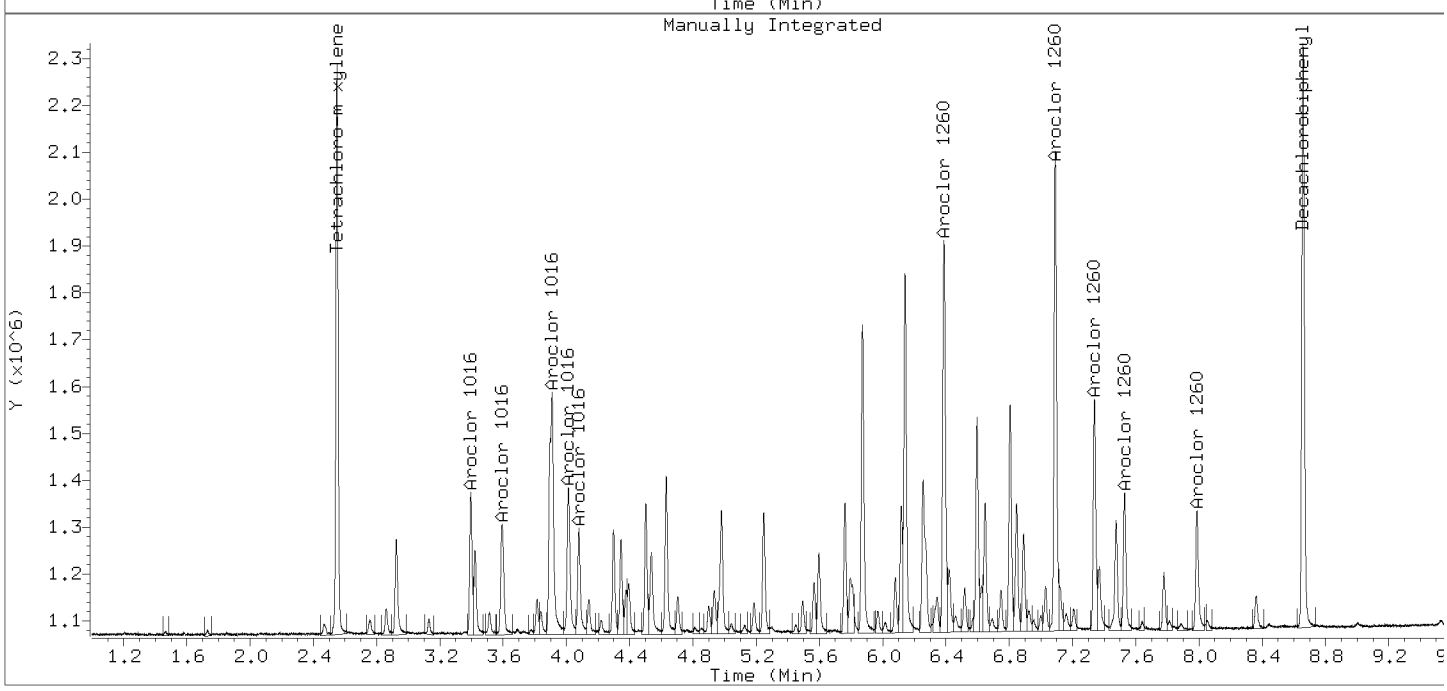
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318057.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 17:21 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL1A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	319537	322683	BA
Aroclor 1016	319537	322683	BA
Aroclor 1016	319537	322683	BA
Aroclor 1016	319537	322683	BA
Aroclor 1016	319537	322683	BA
Aroclor 1260	1027607	1045304	CO
Aroclor 1260	1027607	1045304	CO
Aroclor 1260	1027607	1045304	CO
Aroclor 1260	1027607	1045304	CO
Aroclor 1260	1027607	1045304	CO
Tetrachloro-m-xylene	1227409	1227409	
Decachlorobiphenyl	1475185	1475185	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318059.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 03-MAY-2018 17:37
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:37 Cal File: 050318059.D
Als bottle: 59 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
1.463	17912	15815	0.883	0.04		
1.728	14663	12228	0.834	0.03		
2.471	61595	45938	0.746	0.15		
2.549	2379750	2356758	0.990	6.07	$ 2 Tetrachloro-m-xylene	
2.759	81642	61206	0.750	0.20		
2.861	123186	109359	0.888	0.31		
2.923	445033	401933	0.903	1.13		
3.129	68982	63508	0.921	0.17		
3.395	642979	618646	0.962	1.64	5 Aroclor 1016	BA
3.422	413701	350172	0.846	1.05		
3.514	111192	91343	0.821	0.28		
3.593	656402	467903	0.713	1.67	5 Aroclor 1016	BA
3.689	21483	19027	0.886	0.05		
3.727	18991	12123	0.638	0.04		
3.777	22282	18523	0.831	0.05		
3.812	156568	150637	0.962	0.39		
3.839	120759	94958	0.786	0.30		
3.910	1960217	1051620	0.536	5.00	5 Aroclor 1016	BA
4.013	836515	652751	0.780	2.13	5 Aroclor 1016	BA
4.078	554798	461332	0.832	1.41	5 Aroclor 1016	BA
4.143	181440	148408	0.818	0.46		
4.220	70325	59295	0.843	0.17		
4.298	484782	449254	0.927	1.23		
4.345	430095	393366	0.915	1.09		
4.377	180343	183689	1.019	0.46		
4.393	256145	213986	0.835	0.65		
4.457	20400	13867	0.680	0.05		
4.501	587316	545985	0.930	1.50		
4.536	470606	337325	0.717	1.20		
4.631	789855	683978	0.866	2.01		
4.703	196684	152734	0.777	0.50		
4.815	34227	22900	0.669	0.08		
4.855	27687	22611	0.817	0.07		
4.900	135860	118857	0.875	0.34		
4.934	215377	187768	0.872	0.55		
4.980	721010	533800	0.740	1.84		
5.041	53209	38327	0.720	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.125	41894	32302	0.771	0.10	
5.185	151878	128511	0.846	0.38	
5.247	592252	529227	0.894	1.51	
5.298	34884	26291	0.754	0.08	
5.451	39658	34118	0.860	0.10	
5.494	167539	142461	0.850	0.42	
5.565	232028	216757	0.934	0.59	
5.597	396416	345641	0.872	1.01	
5.761	594381	559830	0.942	1.51	
5.797	396250	232669	0.587	1.01	
5.872	1549685	1284766	0.829	3.95	
5.970	108800	88927	0.817	0.27	
6.013	53350	39816	0.746	0.13	
6.080	252243	220298	0.873	0.64	
6.118	555471	555820	1.001	1.41	
6.142	1786713	1459334	0.817	4.56	
6.256	1074156	676419	0.630	2.74	
6.345	255144	141865	0.556	0.65	
6.387	2060205	1676311	0.814	5.26	8 Aroclor 1260
6.421	323552	267972	0.828	0.82	
6.460	101995	67487	0.662	0.26	
6.519	220804	182699	0.827	0.56	
6.573	44657	56097	1.256	0.11	
6.596	1023482	931936	0.911	2.61	
6.625	180721	190531	1.054	0.46	
6.648	648769	549633	0.847	1.65	
6.693	74295	53893	0.725	0.18	
6.748	199775	177148	0.887	0.51	
6.806	1093875	981925	0.898	2.79	
6.846	614855	545051	0.886	1.57	
6.891	494228	424061	0.858	1.26	
6.926	107692	82408	0.765	0.27	
6.956	50402	40618	0.806	0.12	
7.000	68025	60976	0.896	0.17	
7.029	215607	188309	0.873	0.55	
7.091	2413451	2074318	0.859	6.16	8 Aroclor 1260
7.121	173661	175821	1.012	0.44	
7.162	101290	67903	0.670	0.25	
7.210	114177	88917	0.779	0.29	
7.339	1164449	1022657	0.878	2.97	8 Aroclor 1260
7.370	364134	260539	0.716	0.93	
7.475	582855	473833	0.813	1.48	
7.529	715284	612483	0.856	1.82	8 Aroclor 1260
7.640	54375	35714	0.657	0.13	
7.777	284744	241227	0.847	0.72	
7.813	50534	37810	0.748	0.12	
7.844	13467	14059	1.044	0.03	
7.888	36189	25930	0.717	0.09	
7.987	655399	556937	0.850	1.67	8 Aroclor 1260
8.050	58966	37901	0.643	0.15	
8.361	162341	141287	0.870	0.41	
8.443	20217	11826	0.585	0.05	
8.657	2739030	2382922	0.870	7.47	$ 12 Decachlorobiphenyl
9.002	29783	17947	0.603	0.07	
9.527	41267	24515	0.594	0.10	
	39145304	32658583		100.000	

Total unknown % area = 57

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318059.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 03-MAY-2018 17:37
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:37 Cal File: 050318059.D
Als bottle: 59 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			
2.548	2.549	-0.001	2379750	0.02000	0.020			
5 Aroclor 1016					CAS #: 12674-11-2			
3.395	3.395	0.000	642978	0.20000	0.21	0.00- 20.00	100.00(M)	BA
3.592	3.592	0.000	656402	0.20000	0.21	0.00- 20.00	102.09	BA
3.909	3.909	0.000	1960217	0.20000	0.21	0.00- 20.00	304.87	BA
4.012	4.011	0.001	836514	0.20000	0.21	0.00- 20.00	130.10	BA
4.077	4.078	-0.001	554798	0.20000	0.20	0.00- 20.00	86.29	BA
Average of Peak Amounts =					0.20800			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	2060205	0.20000	0.20	0.00- 20.00	100.00(M)	BA
7.090	7.090	0.000	2413450	0.20000	0.20	0.00- 20.00	117.15	BA
7.338	7.338	0.000	1164449	0.20000	0.20	0.00- 20.00	56.52	BA
7.528	7.529	-0.001	715284	0.20000	0.21	0.00- 20.00	34.72	BA
7.986	7.987	-0.001	655399	0.20000	0.21	0.00- 20.00	31.81	BA
Average of Peak Amounts =					0.20400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	2739030	0.02000	0.020			

QC Flag Legend

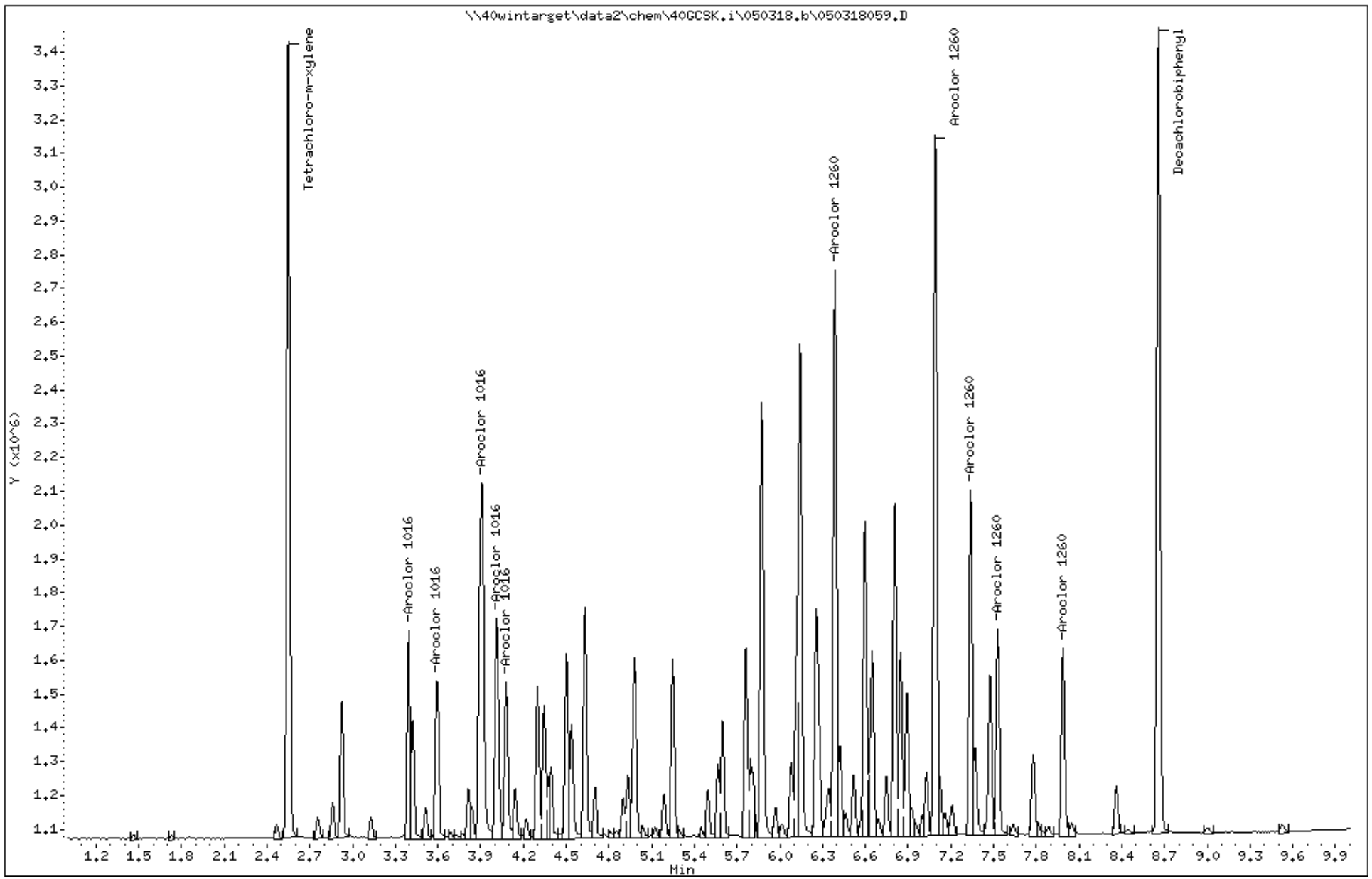
M - Compound response manually integrated.

Review Codes Legend

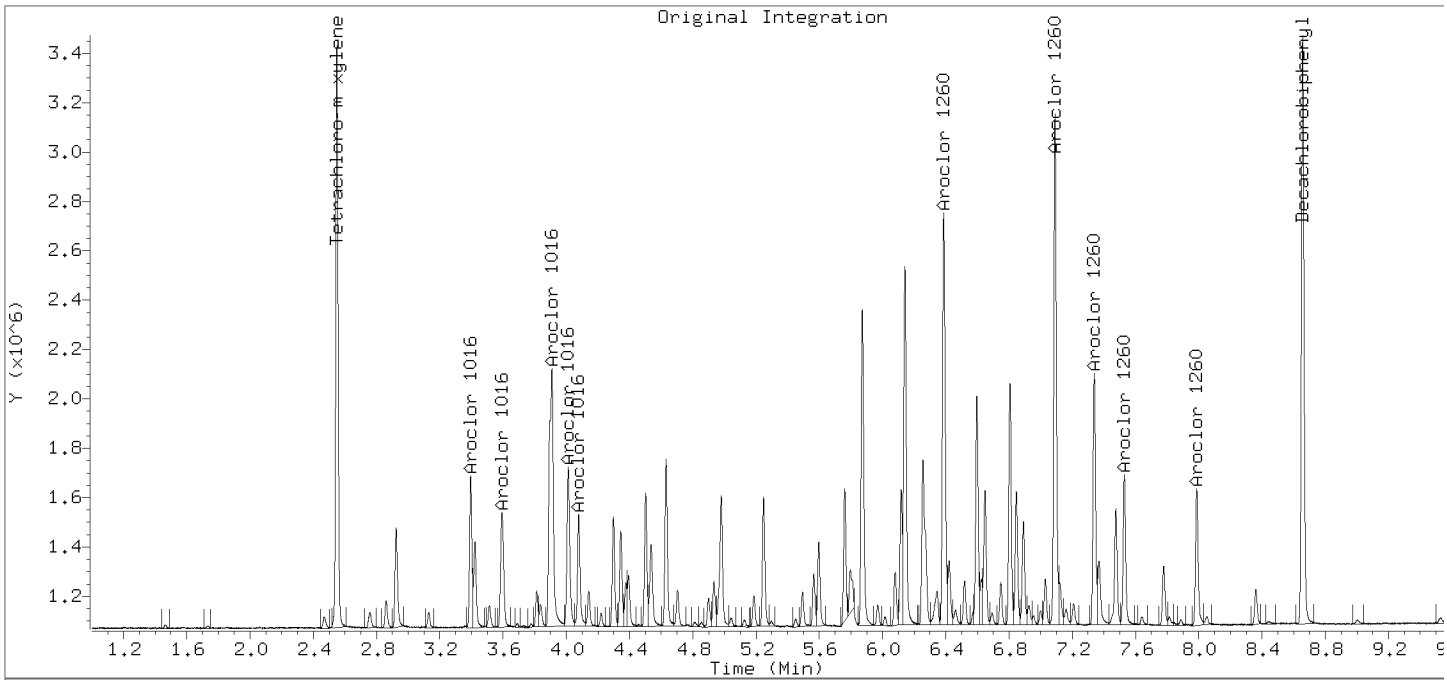
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

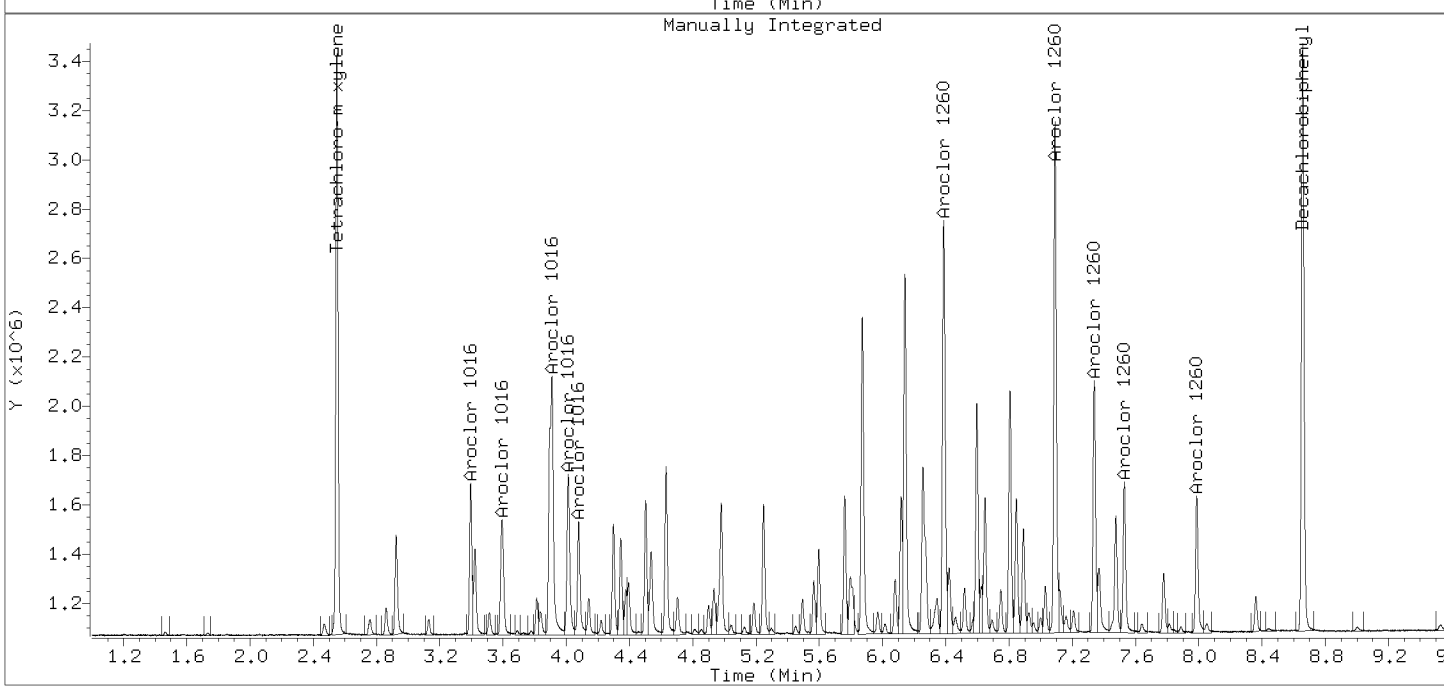
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318059.D
Date : 03-MAY-2018 17:37
Client ID: 1660-CAL2A
Sample Info: 1660-CAL2A, 185558:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318059.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 17:37 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL2A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	638624	642978	BA
Aroclor 1016	638624	642978	BA
Aroclor 1016	638624	642978	BA
Aroclor 1016	638624	642978	BA
Aroclor 1016	638624	642978	BA
Aroclor 1260	2042014	2060205	BA
Aroclor 1260	2042014	2060205	BA
Aroclor 1260	2042014	2060205	BA
Aroclor 1260	2042014	2060205	BA
Aroclor 1260	2042014	2060205	BA
Tetrachloro-m-xylene	2379750	2379750	
Decachlorobiphenyl	2739030	2739030	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318061.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 03-MAY-2018 17:53
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 61 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
1.204	53726	50354	0.937	0.05		
1.463	37186	35122	0.944	0.03		
1.578	21617	16843	0.779	0.02		
1.730	28304	28194	0.996	0.02		
1.854	16868	15254	0.904	0.01		
2.061	37868	29796	0.787	0.03		
2.470	137109	113423	0.827	0.14		
2.549	6100684	6155447	1.009	6.43	$ 2 Tetrachloro-m-xylene	
2.757	188393	152965	0.812	0.19		
2.861	304915	277454	0.910	0.32		
2.924	1157346	1028076	0.888	1.22		
3.091	23867	21080	0.883	0.02		
3.130	171532	157358	0.917	0.18		
3.354	22231	16521	0.743	0.02		
3.395	1549695	1472824	0.950	1.63	5 Aroclor 1016	BA
3.421	985336	873341	0.886	1.03		
3.513	263101	222930	0.847	0.27		
3.594	1598183	1152800	0.721	1.68	5 Aroclor 1016	BA
3.691	51400	40457	0.787	0.05		
3.725	25991	17647	0.679	0.02		
3.777	43562	41035	0.942	0.04		
3.812	389538	376603	0.967	0.41		
3.838	289273	239616	0.828	0.30		
3.909	4708386	2608002	0.554	4.96	5 Aroclor 1016	BA
4.012	2028145	1590308	0.784	2.13	5 Aroclor 1016	BA
4.077	1375494	1186545	0.863	1.45	5 Aroclor 1016	BA
4.142	430719	353186	0.820	0.45		
4.221	170219	135058	0.793	0.17		
4.298	1172731	1080073	0.921	1.23		
4.344	1058088	981986	0.928	1.11		
4.376	431521	450844	1.045	0.45		
4.394	606218	512468	0.845	0.63		
4.460	36210	25250	0.697	0.03		
4.502	1430253	1335045	0.933	1.50		
4.537	1131425	838742	0.741	1.19		
4.631	1906063	1624999	0.853	2.01		
4.703	441727	384456	0.870	0.46		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.763	37907	23970	0.632	0.03	
4.810	69190	53049	0.767	0.07	
4.855	62084	52439	0.845	0.06	
4.899	334136	301333	0.902	0.35	
4.933	537333	489354	0.911	0.56	
4.980	1726715	1230785	0.713	1.82	
5.044	126074	91572	0.726	0.13	
5.126	97679	77855	0.797	0.10	
5.186	360685	312217	0.866	0.38	
5.248	1433379	1273297	0.888	1.51	
5.298	77106	54913	0.712	0.08	
5.396	17385	14283	0.822	0.01	
5.450	96882	81968	0.846	0.10	
5.494	383137	357488	0.933	0.40	
5.565	559641	538610	0.962	0.59	
5.597	1002245	867756	0.866	1.05	
5.691	21314	17370	0.815	0.02	
5.761	1464006	1357901	0.928	1.54	
5.795	963085	575973	0.598	1.01	
5.873	3636638	3029500	0.833	3.83	
5.969	248205	217423	0.876	0.26	
6.014	118539	97504	0.823	0.12	
6.079	619548	565801	0.913	0.65	
6.117	1358471	1361163	1.002	1.43	
6.142	4174571	3497797	0.838	4.40	
6.255	2624249	1661735	0.633	2.76	
6.344	590948	342928	0.580	0.62	
6.386	5019097	4164755	0.830	5.29	8 Aroclor 1260
6.421	762689	647945	0.850	0.80	
6.461	201798	151800	0.752	0.21	
6.518	536476	459453	0.856	0.56	
6.573	112260	133894	1.193	0.11	
6.596	2436192	2179917	0.895	2.56	
6.625	454038	495755	1.092	0.47	
6.647	1548071	1327669	0.858	1.63	
6.691	178453	134122	0.752	0.18	
6.747	481363	438864	0.912	0.50	
6.806	2616686	2361158	0.902	2.75	
6.847	1484307	1315090	0.886	1.56	
6.890	1242930	1038667	0.836	1.31	
6.925	233934	198303	0.848	0.24	
6.956	115943	99282	0.856	0.12	
7.000	164120	152071	0.927	0.17	
7.029	524427	486210	0.927	0.55	
7.091	5900538	5151876	0.873	6.22	8 Aroclor 1260
7.121	412665	393369	0.953	0.43	
7.159	204567	153012	0.748	0.21	
7.208	272783	218350	0.800	0.28	
7.339	2854588	2543355	0.891	3.01	8 Aroclor 1260
7.370	853888	668115	0.782	0.90	
7.475	1405441	1192261	0.848	1.48	
7.529	1721743	1492890	0.867	1.81	8 Aroclor 1260
7.640	133905	95911	0.716	0.14	
7.778	694879	631675	0.909	0.73	
7.814	121059	79469	0.656	0.12	
7.888	66234	55913	0.844	0.06	
7.987	1602956	1330170	0.830	1.69	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.050	116958	88536	0.757	0.12	
8.361	405599	346787	0.855	0.42	
8.440	40321	25957	0.644	0.04	
8.658	6625063	5534164	0.835	7.47	$ 12 Decachlorobiphenyl
9.003	50871	33868	0.666	0.05	
9.529	55262	36484	0.660	0.05	
	94818181	80045203		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318061.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 03-MAY-2018 17:53
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 17:53 Cal File: 050318061.D
Als bottle: 61 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			
2.549	2.549	0.000	6100684	0.05000	0.051			
5 Aroclor 1016					CAS #: 12674-11-2			
3.394	3.395	-0.001	1549695	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1598182	0.50000	0.50	0.00- 20.00	103.13	BA
3.908	3.909	-0.001	4708386	0.50000	0.50	0.00- 20.00	303.83	BA
4.012	4.011	0.001	2028145	0.50000	0.50	0.00- 20.00	130.87	BA
4.077	4.078	-0.001	1375493	0.50000	0.51	0.00- 20.00	88.76	BA
Average of Peak Amounts =					0.50400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	5019097	0.50000	0.50	0.00- 20.00	100.00(M)	BA
7.090	7.090	0.000	5900537	0.50000	0.50	0.00- 20.00	117.56	BA
7.338	7.338	0.000	2854587	0.50000	0.50	0.00- 20.00	56.87	BA
7.529	7.529	0.000	1721743	0.50000	0.50	0.00- 20.00	34.30	BA
7.986	7.987	-0.001	1602956	0.50000	0.51	0.00- 20.00	31.94	BA
Average of Peak Amounts =					0.50200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	6625063	0.05000	0.050			

QC Flag Legend

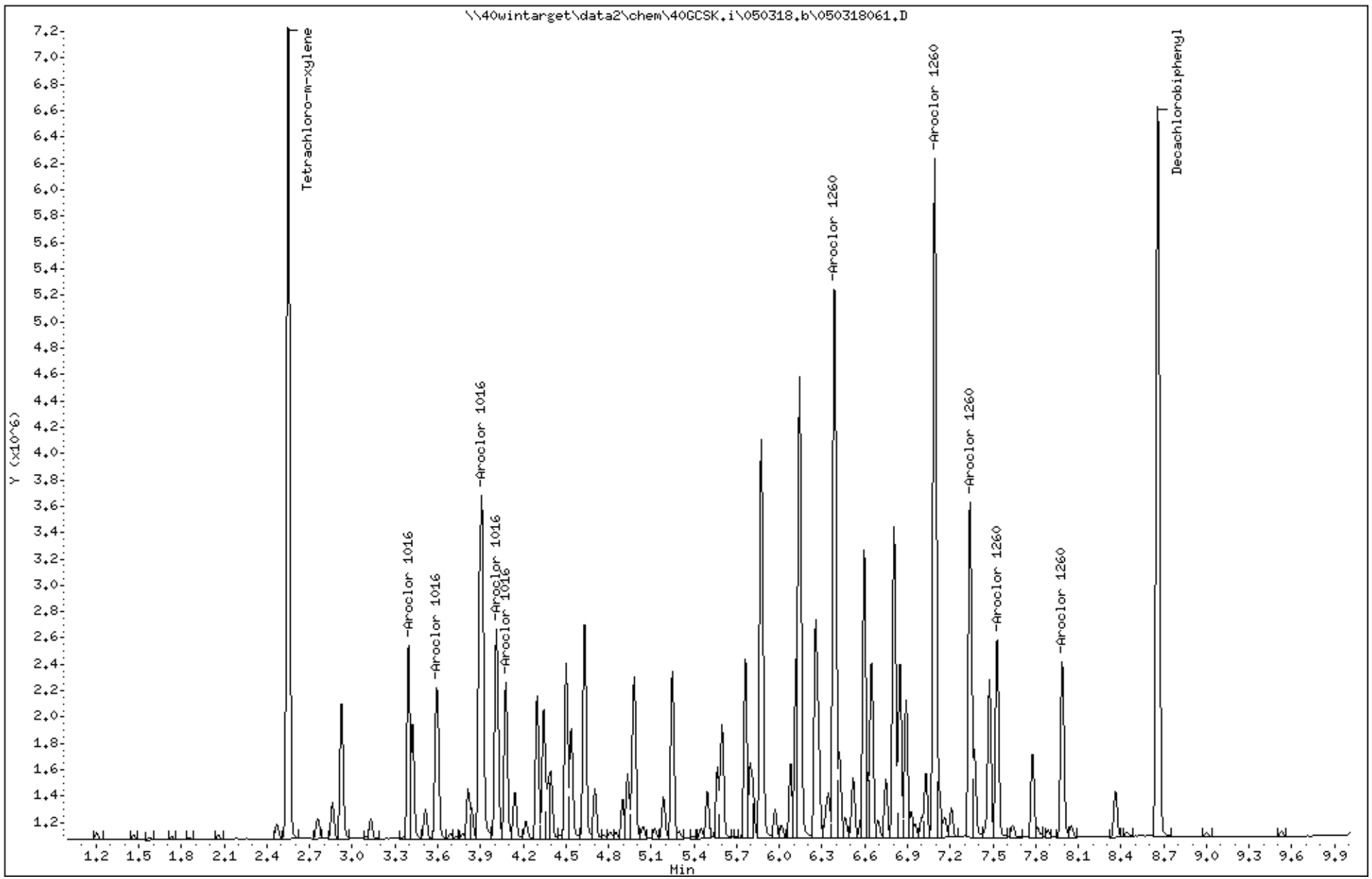
M - Compound response manually integrated.

Review Codes Legend

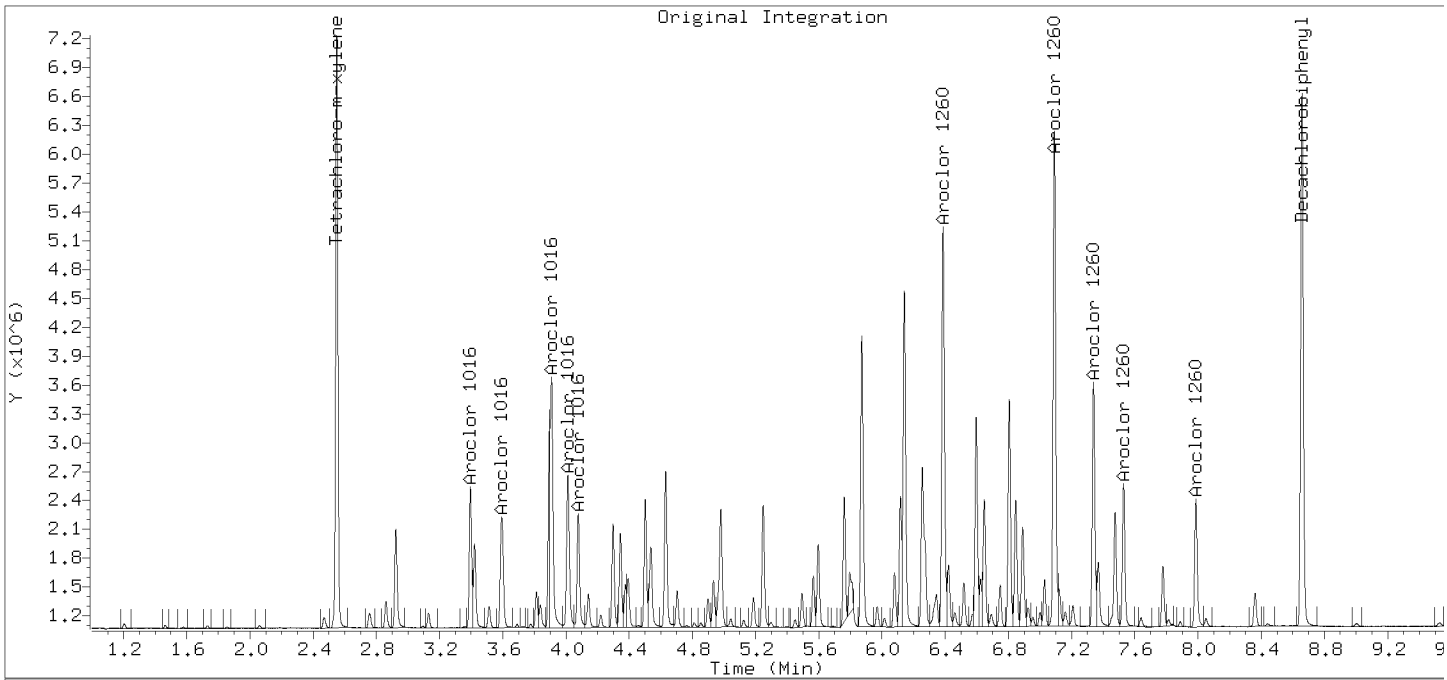
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

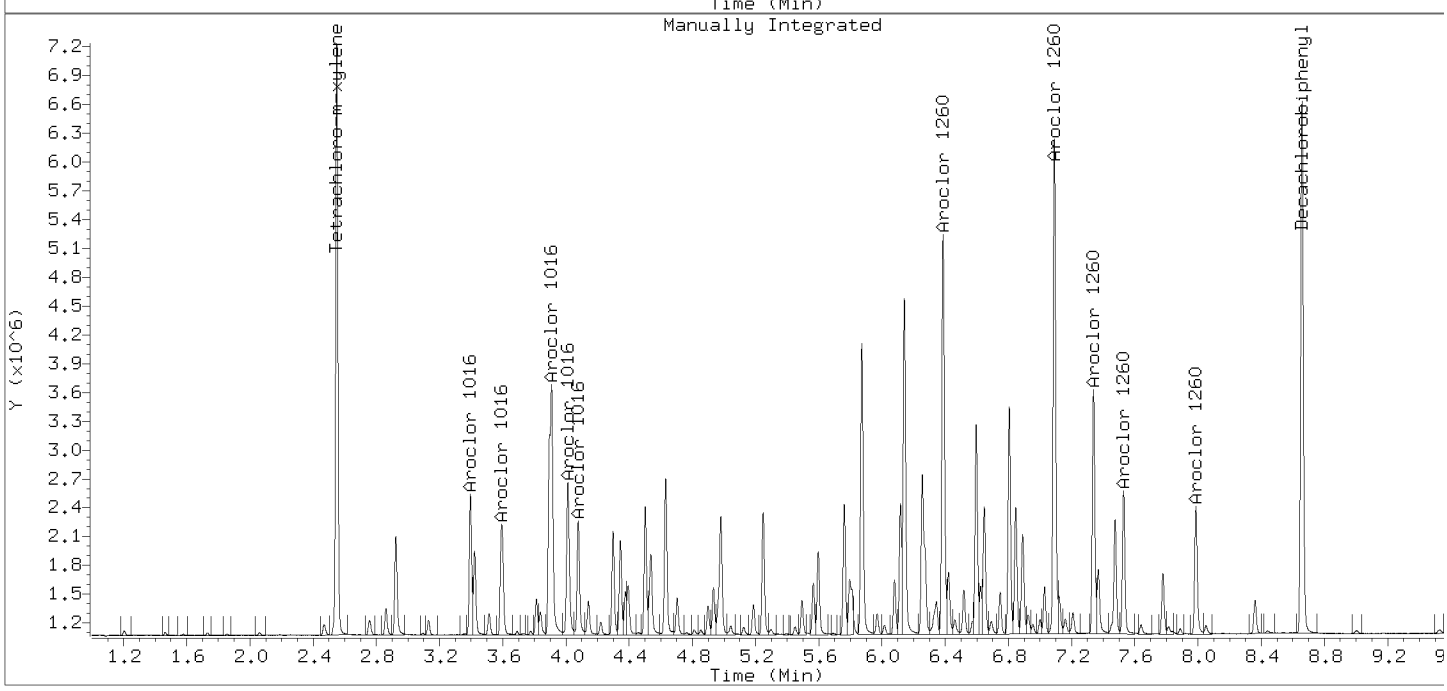
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318061.D
Date : 03-MAY-2018 17:53
Client ID: 1660-CAL3A
Sample Info: 1660-CAL3A, 185559:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318061.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 17:53 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL3A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1540117	1549695	BA
Aroclor 1016	1540117	1549695	BA
Aroclor 1016	1540117	1549695	BA
Aroclor 1016	1540117	1549695	BA
Aroclor 1016	1540117	1549695	BA
Aroclor 1260	4988423	5019097	BA
Aroclor 1260	4988423	5019097	BA
Aroclor 1260	4988423	5019097	BA
Aroclor 1260	4988423	5019097	BA
Aroclor 1260	4988423	5019097	BA
Tetrachloro-m-xylene	6100684	6100684	
Decachlorobiphenyl	6625063	6625063	

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318063.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 03-MAY-2018 18:09
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:09 Cal File: 050318063.D
Als bottle: 63 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
1.464	67236	64848	0.964	0.04		
1.577	30556	27095	0.887	0.02		
1.732	31242	29019	0.929	0.02		
1.854	21745	19686	0.905	0.01		
2.470	208781	168214	0.806	0.13		
2.550	11955961	11999830	1.004	7.97	$ 2 Tetrachloro-m-xylene	
2.757	313747	237652	0.757	0.20		
2.860	489974	458341	0.935	0.32		
2.924	1719967	1536154	0.893	1.14		
3.130	244334	235899	0.965	0.16		
3.274	10988	7384	0.672	0.00		
3.362	28250	24900	0.881	0.01		
3.396	2348979	2198443	0.936	1.56	5 Aroclor 1016	BA
3.422	1465092	1299045	0.887	0.97		
3.514	396811	344207	0.867	0.26		
3.594	2420313	1697882	0.702	1.61	5 Aroclor 1016	BA
3.692	80439	75413	0.938	0.05		
3.723	31076	23156	0.745	0.02		
3.776	64078	60404	0.943	0.04		
3.813	615074	590097	0.959	0.41		
3.838	430982	372783	0.865	0.28		
3.909	7271125	4103121	0.564	4.84	5 Aroclor 1016	BA
4.011	3072408	2432414	0.792	2.04	5 Aroclor 1016	BA
4.077	2070662	1801326	0.870	1.38	5 Aroclor 1016	BA
4.142	645710	551139	0.854	0.43		
4.221	238325	206191	0.865	0.15		
4.298	1763686	1629539	0.924	1.17		
4.345	1607829	1463237	0.910	1.07		
4.377	658312	690446	1.049	0.43		
4.394	926757	783490	0.845	0.61		
4.458	56164	36342	0.647	0.03		
4.502	2167213	2034242	0.939	1.44		
4.537	1739220	1273956	0.732	1.16		
4.631	2894760	2541033	0.878	1.93		
4.703	675338	598985	0.887	0.45		
4.761	48164	32845	0.682	0.03		
4.812	104846	80805	0.771	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.853	94643	77881	0.823	0.06	
4.898	519887	495744	0.954	0.34	
4.933	838898	768578	0.916	0.55	
4.980	2601456	1860837	0.715	1.73	
5.043	185872	137052	0.737	0.12	
5.124	146509	121892	0.832	0.09	
5.186	555478	498528	0.897	0.37	
5.247	2154992	1925467	0.893	1.43	
5.297	126762	86104	0.679	0.08	
5.393	23727	19735	0.832	0.01	
5.449	144806	128498	0.887	0.09	
5.494	596942	553969	0.928	0.39	
5.531	27825	27055	0.972	0.01	
5.565	857592	822758	0.959	0.57	
5.596	1545706	1365517	0.883	1.03	
5.691	28511	22906	0.803	0.01	
5.760	2205326	2053023	0.931	1.47	
5.796	1608716	870409	0.541	1.07	
5.872	5534744	4659515	0.842	3.69	
5.970	370112	341912	0.924	0.24	
6.016	176527	146842	0.832	0.11	
6.080	950067	908543	0.956	0.63	
6.117	2035562	2008760	0.987	1.35	
6.141	6388906	5380626	0.842	4.26	
6.255	4009021	2569923	0.641	2.67	
6.343	915697	543582	0.594	0.61	
6.387	7770769	6434864	0.828	5.18	8 Aroclor 1260
6.420	1181233	1015145	0.859	0.78	
6.462	295336	224814	0.761	0.19	
6.518	800706	685961	0.857	0.53	
6.572	177187	210961	1.191	0.11	
6.596	3711115	3273611	0.882	2.47	
6.624	722454	793419	1.098	0.48	
6.647	2356465	2054698	0.872	1.57	
6.691	267842	205980	0.769	0.17	
6.747	750453	699673	0.932	0.50	
6.805	4025779	3664936	0.910	2.68	
6.846	2243243	1966250	0.877	1.49	
6.890	1907111	1636442	0.858	1.27	
6.926	355149	296453	0.835	0.23	
6.955	177855	148888	0.837	0.11	
6.999	247782	231402	0.934	0.16	
7.029	828759	754937	0.911	0.55	
7.091	9187934	8114188	0.883	6.12	8 Aroclor 1260
7.122	653413	593308	0.908	0.43	
7.161	306439	233514	0.762	0.20	
7.208	382783	320545	0.837	0.25	
7.338	4459353	4051635	0.909	2.97	8 Aroclor 1260
7.369	1293842	1059494	0.819	0.86	
7.475	2145485	1746091	0.814	1.43	
7.529	2620928	2286896	0.873	1.74	8 Aroclor 1260
7.639	195235	153578	0.787	0.13	
7.778	1081779	975392	0.902	0.72	
7.814	170854	124894	0.731	0.11	
7.887	99574	85627	0.860	0.06	
7.987	2445296	2099169	0.858	1.63	8 Aroclor 1260
8.052	189137	135738	0.718	0.12	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.361	670097	572171	0.854	0.44	
8.658	12598490	11014054	0.874	8.88	$ 12 Decachlorobiphenyl
9.006	17026	12307	0.723	0.01	
9.172	17942	12537	0.699	0.01	
9.534	13856	14286	1.031	0.00	
	149929128	128029077		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318063.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 03-MAY-2018 18:09
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:09 Cal File: 050318063.D
Als bottle: 63 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			
2.549	2.549	0.000	11955960	0.10000	0.099			
5 Aroclor 1016					CAS #: 12674-11-2			
3.395	3.395	0.000	2348979	0.80000	0.77	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	2420312	0.80000	0.76	0.00- 20.00	103.04	BA
3.908	3.909	-0.001	7271124	0.80000	0.77	0.00- 20.00	309.54	BA
4.011	4.011	0.000	3072407	0.80000	0.76	0.00- 20.00	130.80	BA
4.077	4.078	-0.001	2070661	0.80000	0.77	0.00- 20.00	88.15	BA
Average of Peak Amounts =					0.76600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	7770768	0.80000	0.78	0.00- 20.00	100.00(M)	BA
7.091	7.090	0.001	9187934	0.80000	0.78	0.00- 20.00	118.24	BA
7.338	7.338	0.000	4459353	0.80000	0.79	0.00- 20.00	57.39	BA
7.528	7.529	-0.001	2620928	0.80000	0.77	0.00- 20.00	33.73	BA
7.986	7.987	-0.001	2445295	0.80000	0.77	0.00- 20.00	31.47	BA
Average of Peak Amounts =					0.77800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	12598489	0.10000	0.094			

QC Flag Legend

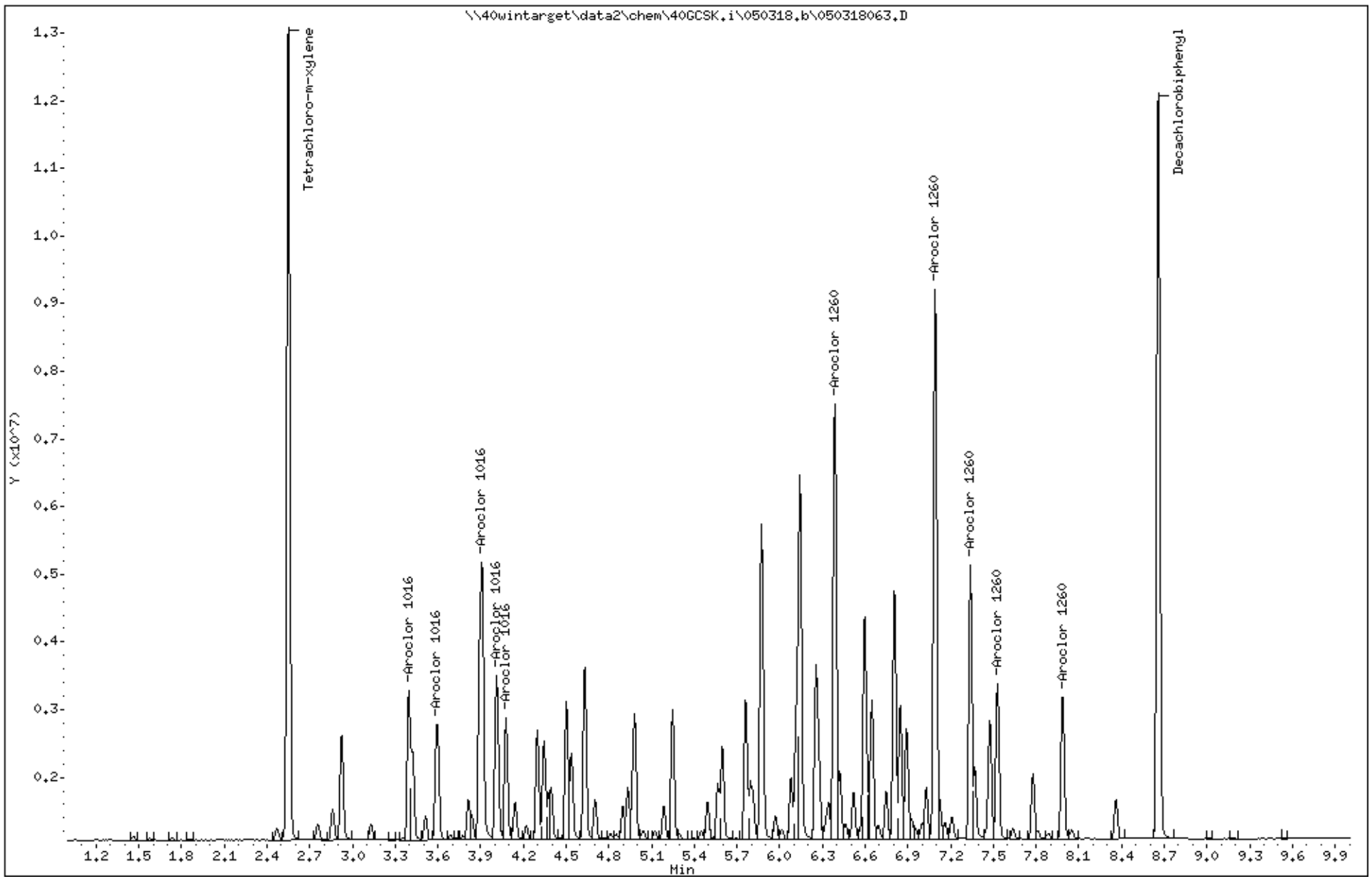
M - Compound response manually integrated.

Review Codes Legend

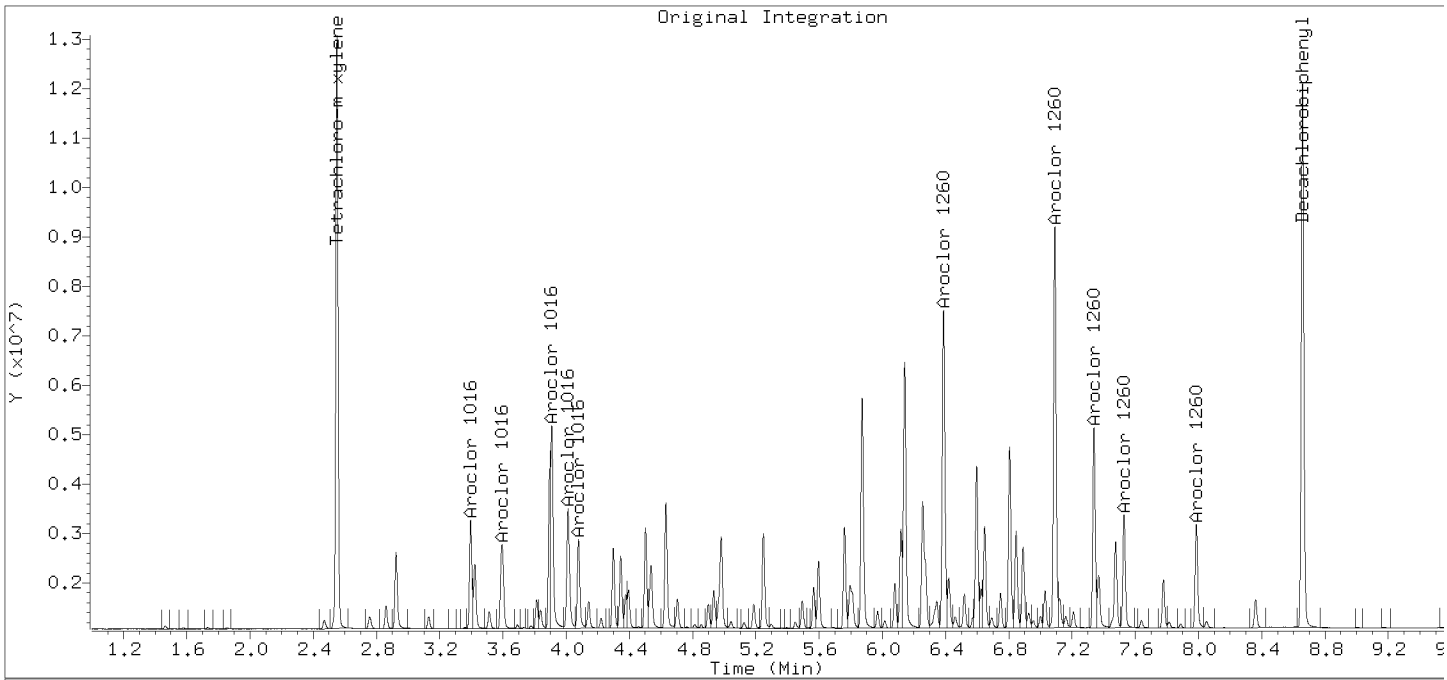
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:

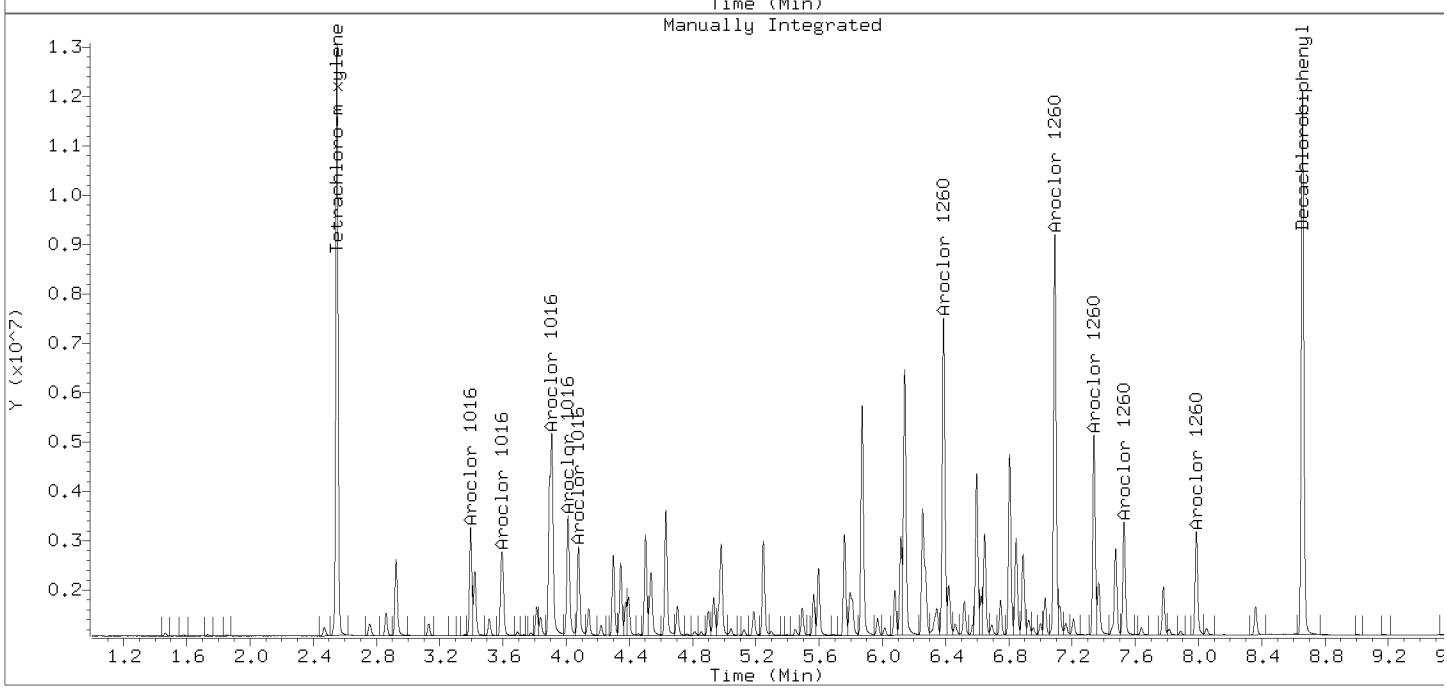
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318063.D
Date : 03-MAY-2018 18:09
Client ID: 1660-CAL4A
Sample Info: 1660-CAL4A, 185560:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318063.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 18:09 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL4A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	2335401	2348979	BA
Aroclor 1016	2335401	2348979	BA
Aroclor 1016	2335401	2348979	BA
Aroclor 1016	2335401	2348979	BA
Aroclor 1016	2335401	2348979	BA
Aroclor 1260	7750565	7770768	BA
Aroclor 1260	7750565	7770768	BA
Aroclor 1260	7750565	7770768	BA
Aroclor 1260	7750565	7770768	BA
Aroclor 1260	7750565	7770768	BA
Tetrachloro-m-xylene	11955960	11955960	
Decachlorobiphenyl	12598489	12598489	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318065.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 03-MAY-2018 18:26
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 65 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
1.202	10600	11802	1.113	0.00		
1.462	94131	93130	0.989	0.04		
1.575	40028	36391	0.909	0.02		
1.729	24562	23104	0.941	0.01		
1.855	28263	25098	0.888	0.01		
2.469	252718	200899	0.795	0.13		
2.549	17835724	18075506	1.013	9.40	$ 2 Tetrachloro-m-xylene	
2.757	379493	289183	0.762	0.20		
2.860	637485	596560	0.936	0.33		
2.923	2104579	1860445	0.884	1.10		
3.131	302809	289637	0.957	0.15		
3.359	39118	32135	0.821	0.02		
3.395	2816368	2657278	0.944	1.48	5 Aroclor 1016	BA
3.422	1786177	1554575	0.870	0.94		
3.514	483430	426051	0.881	0.25		
3.594	2923969	2080952	0.712	1.54	5 Aroclor 1016	BA
3.691	116927	108092	0.924	0.06		
3.728	54082	32398	0.599	0.02		
3.777	80041	73439	0.918	0.04		
3.813	750863	739637	0.985	0.39		
3.837	532576	470190	0.883	0.28		
3.908	8886004	5003325	0.563	4.68	5 Aroclor 1016	BA
4.012	3741519	2955342	0.790	1.97	5 Aroclor 1016	BA
4.078	2529477	2241835	0.886	1.33	5 Aroclor 1016	BA
4.142	779305	673679	0.864	0.41		
4.220	304140	249707	0.821	0.16		
4.298	2129218	1925543	0.904	1.12		
4.345	1936075	1797022	0.928	1.02		
4.377	821663	847136	1.031	0.43		
4.394	1104089	978477	0.886	0.58		
4.457	66686	46067	0.691	0.03		
4.502	2636996	2453008	0.930	1.39		
4.537	2118944	1543530	0.728	1.11		
4.631	3529320	3071319	0.870	1.86		
4.704	826392	726177	0.879	0.43		
4.765	66133	42637	0.645	0.03		
4.812	126649	96930	0.765	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.854	115792	97994	0.846	0.06	
4.899	639463	597315	0.934	0.33	
4.933	1026826	921088	0.897	0.54	
4.980	3162663	2282967	0.722	1.66	
5.043	235547	163358	0.694	0.12	
5.124	185144	150351	0.812	0.09	
5.186	682483	602617	0.883	0.35	
5.248	2617724	2359652	0.901	1.38	
5.297	146755	102100	0.696	0.07	
5.394	31421	22776	0.725	0.01	
5.450	172339	157887	0.916	0.09	
5.494	731080	688598	0.942	0.38	
5.531	35946	31436	0.875	0.01	
5.565	1039490	984107	0.947	0.54	
5.596	1870163	1641153	0.878	0.98	
5.691	35131	26330	0.749	0.01	
5.761	2666143	2512418	0.942	1.40	
5.796	1979981	1063183	0.537	1.04	
5.872	6734644	5673706	0.842	3.55	
5.970	463225	408694	0.882	0.24	
6.016	220245	186092	0.845	0.11	
6.080	1166464	1087303	0.932	0.61	
6.117	2446662	2521575	1.031	1.29	
6.141	7792763	6601966	0.847	4.10	
6.256	4902469	3132484	0.639	2.58	
6.344	1142155	658658	0.577	0.60	
6.387	9544191	7809544	0.818	5.03	8 Aroclor 1260
6.421	1431136	1226841	0.857	0.75	
6.462	382444	280168	0.733	0.20	
6.519	978695	837798	0.856	0.51	
6.573	201013	256883	1.278	0.10	
6.596	4507380	4003546	0.888	2.37	
6.624	900416	950861	1.056	0.47	
6.648	2883370	2487636	0.863	1.52	
6.691	344707	257431	0.747	0.18	
6.748	939773	853268	0.908	0.49	
6.805	4919441	4479601	0.911	2.59	
6.847	2737725	2392698	0.874	1.44	
6.890	2344515	2009215	0.857	1.23	
6.926	443838	365831	0.824	0.23	
6.955	227292	189491	0.834	0.11	
6.999	315762	293589	0.930	0.16	
7.029	1026744	907611	0.884	0.54	
7.091	11310003	10026142	0.886	5.96	8 Aroclor 1260
7.121	787149	722978	0.918	0.41	
7.161	384747	282521	0.734	0.20	
7.208	508220	398074	0.783	0.26	
7.307	22840	24338	1.066	0.01	
7.338	5484641	4898135	0.893	2.89	8 Aroclor 1260
7.368	1588553	1279962	0.806	0.83	
7.476	2618792	2116651	0.808	1.38	
7.529	3228578	2739776	0.849	1.70	8 Aroclor 1260
7.639	248924	187542	0.753	0.13	
7.778	1319068	1195900	0.907	0.69	
7.814	212816	155518	0.731	0.11	
7.887	133066	111601	0.839	0.07	
7.987	2993726	2544338	0.850	1.57	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.051	217804	169994	0.780	0.11	
8.361	835944	744828	0.891	0.44	
8.658	18449537	16077866	0.871	10.14	$ 12 Decachlorobiphenyl
9.173	25312	18752	0.741	0.01	
9.527	23908	13331	0.558	0.01	
	189661336	162314303		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318065.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 03-MAY-2018 18:26
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 65 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			
2.549	2.549	0.000	17835724	0.15000	0.15			
5 Aroclor 1016					CAS #: 12674-11-2			
3.395	3.395	0.000	2816368	1.00000	0.92	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	2923969	1.00000	0.92	0.00- 20.00	103.82	BA
3.908	3.909	-0.001	8886004	1.00000	0.94	0.00- 20.00	315.51	BA
4.011	4.011	0.000	3741518	1.00000	0.93	0.00- 20.00	132.85	BA
4.078	4.078	0.000	2529476	1.00000	0.94	0.00- 20.00	89.81	BA
Average of Peak Amounts =					0.93000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	9544191	1.00000	0.95	0.00- 20.00	100.00(M)	BA
7.090	7.090	0.000	11310002	1.00000	0.96	0.00- 20.00	118.50	BA
7.338	7.338	0.000	5484640	1.00000	0.97	0.00- 20.00	57.47	BA
7.528	7.529	-0.001	3228577	1.00000	0.94	0.00- 20.00	33.83	BA
7.986	7.987	-0.001	2993726	1.00000	0.94	0.00- 20.00	31.37	BA
Average of Peak Amounts =					0.95200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	18449537	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\40GCSK.i\050318.b\050318065.D

Date : 03-MAY-2018 18:26

Client ID: 1660-CAL5A

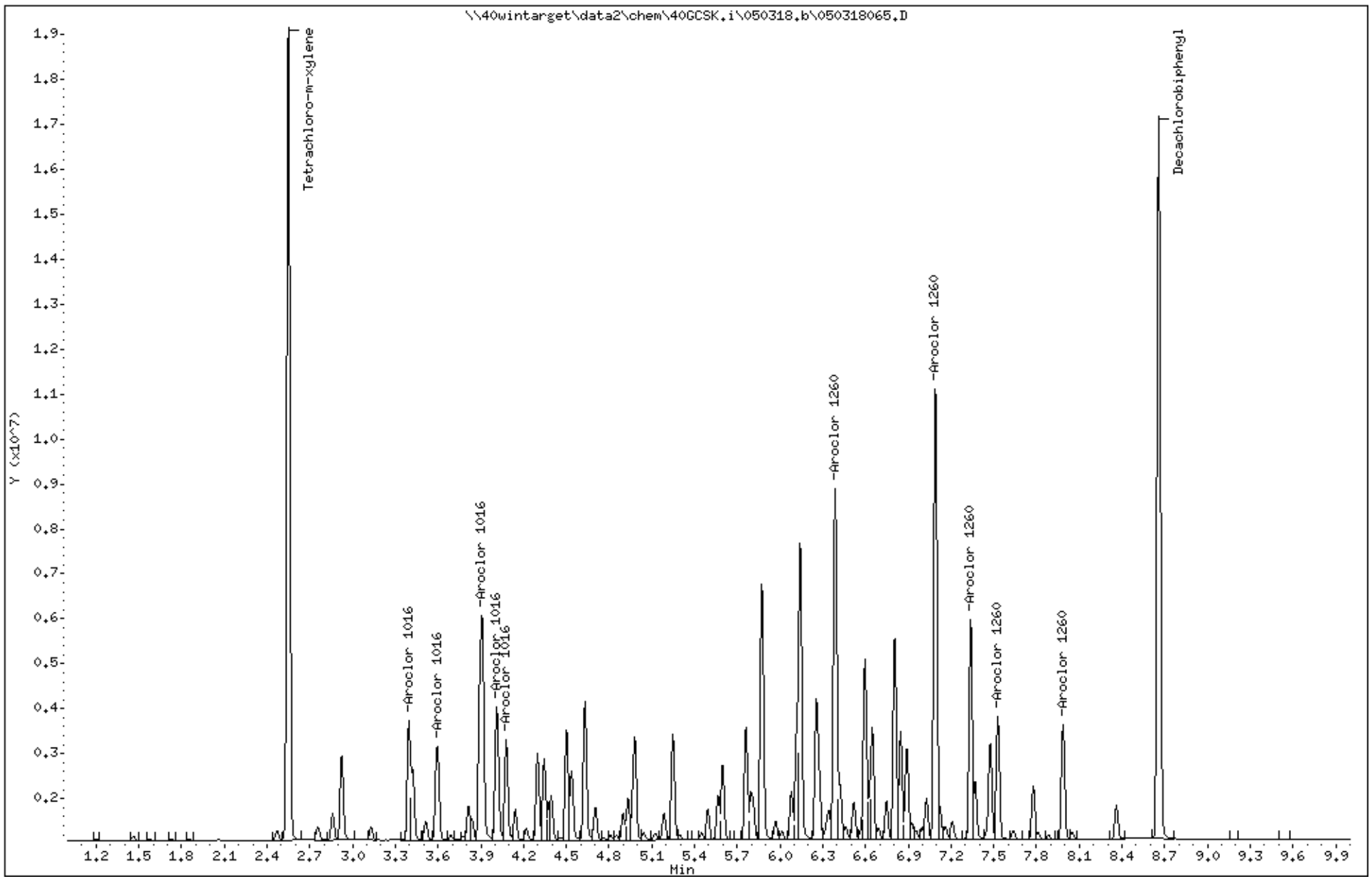
Instrument: 40GCSK.i

Sample Info: 1660-CAL5A, 185561:1

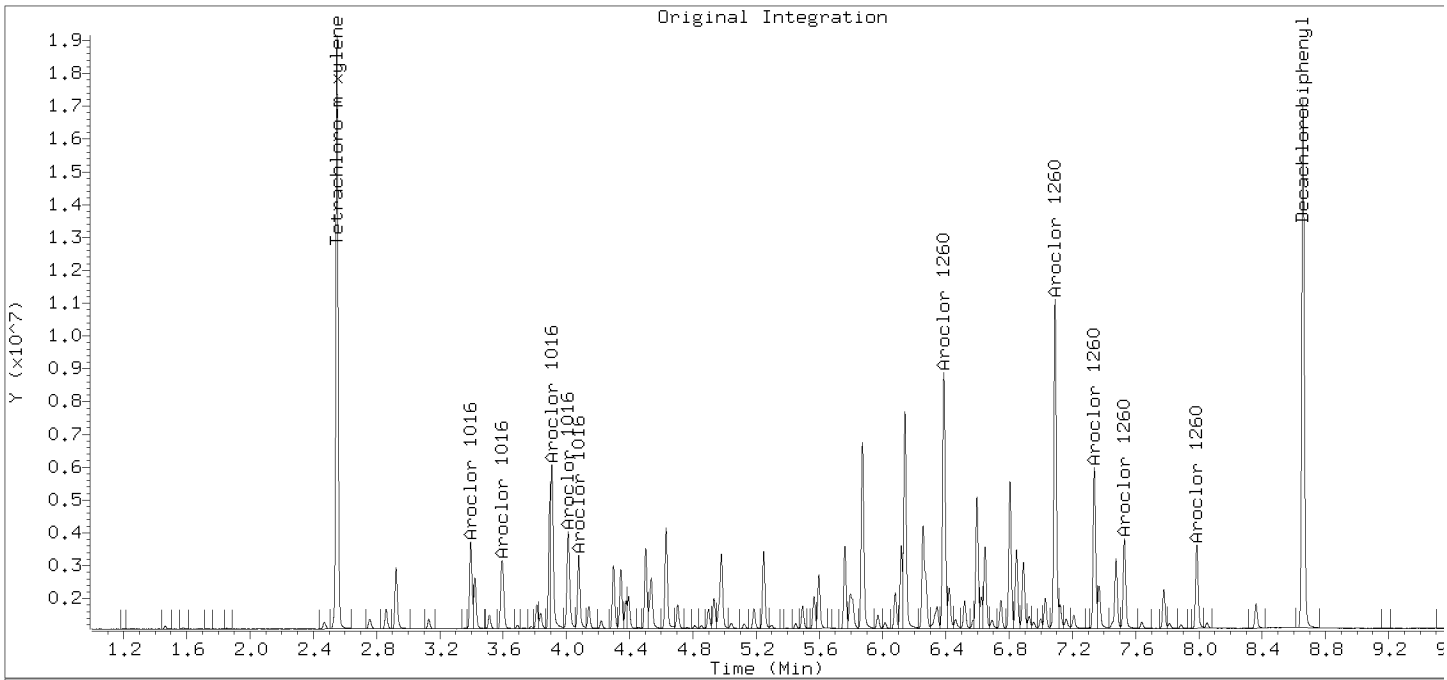
Operator: BLM

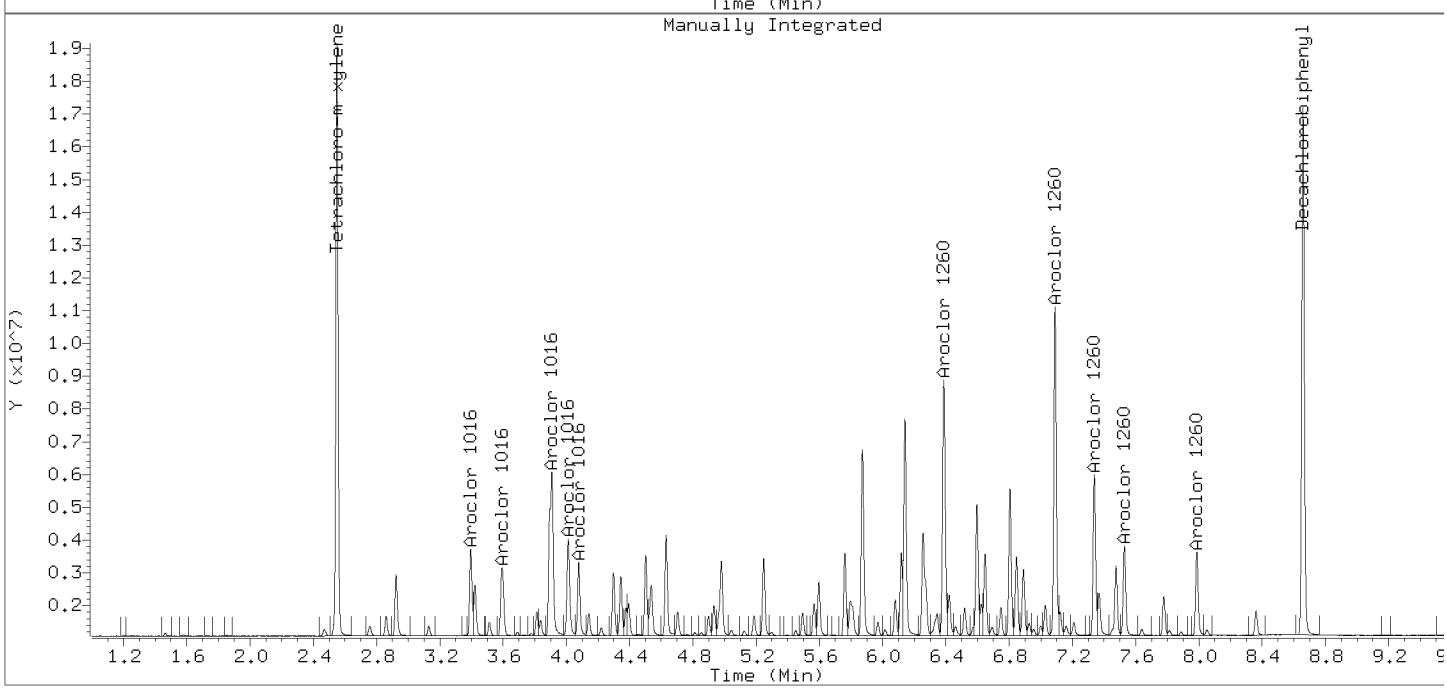
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318065.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 18:26 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL5A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	2805643	2816368	BA
Aroclor 1016	2805643	2816368	BA
Aroclor 1016	2805643	2816368	BA
Aroclor 1016	2805643	2816368	BA
Aroclor 1016	2805643	2816368	BA
Aroclor 1260	9525282	9544191	BA
Aroclor 1260	9525282	9544191	BA
Aroclor 1260	9525282	9544191	BA
Aroclor 1260	9525282	9544191	BA
Aroclor 1260	9525282	9544191	BA
Tetrachloro-m-xylene	17835724	17835724	
Decachlorobiphenyl	18449537	18449537	

PCB Low Level Calibration % Difference Check

Lab Name: Pace Analytical - Green Bay
Instrument ID: 40GCSK
Calibration Date: 5/3/2018

Aroclor	True Value	Abundance Concentration	% Difference	Acceptance Criteria %	Pass/Fail
AR1221-CAL1	.1	0.107248	7.248	20	Pass
AR1242-CAL1	.1	0.112708	12.708	20	Pass
AR1248-CAL1	.1	0.100845	0.845	20	Pass
AR1254-CAL1	.1	0.103878	3.878	20	Pass
AR1016-CAL1	.1	0.105964	5.964	20	Pass
AR1260-CAL1	.1	0.103447	3.447	20	Pass

SAMPLE NO.

10965753ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/03/2018 Time: 18:58

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050318.B\050318069.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.852	1.819	1.887	990400.050	1007748.00	1.7516
Aroclor 1221	2	Averaged	2.472	2.437	2.505	527183.800	525090.000	-0.3972
Aroclor 1221	3	Averaged	2.757	2.724	2.792	1386989.95	1434412.00	3.4191
Aroclor 1221	4	Averaged	2.861	2.826	2.894	1103515.20	1105148.00	0.1480
Aroclor 1221	5	Averaged	2.924	2.889	2.957	3343089.15	3473996.00	3.9157
Decachlorobiphenyl (S)		Averaged	8.658	8.623	8.691	133190612.	126277860.	-5.1901
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	114744400.	-4.7300

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

SAMPLE NO.

10965769ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/03/2018 Time: 19:14

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050318.B\050318071.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.395	3.362	3.43	2420361.20	2477562.00	2.3633
Aroclor 1242	2	Averaged	3.592	3.558	3.626	2461220.20	2532278.00	2.8871
Aroclor 1242	3	Averaged	3.908	3.875	3.943	7255531.45	7352366.00	1.3346
Aroclor 1242	4	Averaged	4.01	3.977	4.045	3116237.30	3192204.00	2.4378
Aroclor 1242	5	Averaged	4.077	4.044	4.112	2093297.05	2136002.00	2.0401
Decachlorobiphenyl (S)		Averaged	8.657	8.623	8.691	133190612.	120978920.	-9.1686
Tetrachloro-m-xylene		Averaged	2.548	2.515	2.583	120441301.	109577260.	-9.0202

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

SAMPLE NO.

10965760ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/03/2018 Time: 19:30

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050318.B\050318073.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.344	4.309	4.377	2385348.25	2537884.00	6.3947
Aroclor 1248	2	Averaged	4.63	4.596	4.664	4247440.25	4466132.00	5.1488
Aroclor 1248	3	Averaged	4.898	4.864	4.932	2037039.95	2219262.00	8.9454
Aroclor 1248	4	Averaged	4.964	4.929	4.997	5477393.60	5820260.00	6.2597
Aroclor 1248	5	Averaged	5.124	5.089	5.157	3783272.55	4083010.00	7.9227
Decachlorobiphenyl (S)		Averaged	8.657	8.623	8.691	133190612.	123503360.	-7.2732
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	114009700.	-5.3400

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

SAMPLE NO.

10965755ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/03/2018 Time: 19:47

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050318.B\050318075.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.247	5.214	5.282	5639619.40	5229098.00	-7.2792
Aroclor 1254	2	Averaged	5.493	5.458	5.526	4663763.05	4346390.00	-6.8051
Aroclor 1254	3	Averaged	5.596	5.562	5.63	8561997.90	7723550.00	-9.7927
Aroclor 1254	4	Averaged	6.115	6.079	6.147	5312874.15	4896798.00	-7.8315
Aroclor 1254	5	Averaged	6.386	6.353	6.421	7321092.90	7028970.00	-3.9902
Decachlorobiphenyl (S)		Averaged	8.658	8.623	8.691	133190612.	124092700.	-6.8307
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	114866640.	-4.6285

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

SAMPLE NO.

10965768ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/03/2018 Time: 20:03

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050318.B\050318077.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.394	3.361	3.429	3058740.35	3126392.00	2.2117
Aroclor 1016	2	Averaged	3.594	3.558	3.626	3170920.60	3168508.00	-0.0761
Aroclor 1016	3	Averaged	3.908	3.875	3.943	9396963.20	9468364.00	0.7598
Aroclor 1016	4	Averaged	4.011	3.977	4.045	4020815.35	4042920.00	0.5498
Aroclor 1016	5	Averaged	4.077	4.044	4.112	2697941.65	2682334.00	-0.5785
Aroclor 1260	1	Averaged	6.386	6.353	6.421	10009982.0	9413384.00	-5.9600
Aroclor 1260	2	Averaged	7.09	7.056	7.124	11769278.7	11929928.0	1.3650
Aroclor 1260	3	Averaged	7.337	7.304	7.372	5656294.05	5762990.00	1.8863
Aroclor 1260	4	Averaged	7.528	7.495	7.563	3418830.60	3409380.00	-0.2764
Aroclor 1260	5	Averaged	7.986	7.953	8.021	3167096.35	3374502.00	6.5488
Decachlorobiphenyl (S)		Averaged	8.656	8.623	8.691	133190612.	125009800.	-6.1422
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	112020020.	-6.9920

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

SAMPLE NO.

10983415CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/07/2018 Time: 14:06

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718004.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.344	4.309	4.377	2385348.25	2408228.00	0.9592
Aroclor 1248	2	Averaged	4.63	4.596	4.664	4247440.25	4179566.00	-1.5980
Aroclor 1248	3	Averaged	4.897	4.864	4.932	2037039.95	2085936.00	2.4003
Aroclor 1248	4	Averaged	4.964	4.929	4.997	5477393.60	5358524.00	-2.1702
Aroclor 1248	5	Averaged	5.123	5.089	5.157	3783272.55	3774028.00	-0.2444
Decachlorobiphenyl (S)		Averaged	8.656	8.623	8.691	133190612.	119784660.	-10.0652
Tetrachloro-m-xylene		Averaged	2.55	2.515	2.583	120441301.	112451580.	-6.6337

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

SAMPLE NO.

10983581CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/07/2018 Time: 17:17

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718016.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.247	5.214	5.282	5639619.40	5407266.00	-4.1200
Aroclor 1254	2	Averaged	5.493	5.458	5.526	4663763.05	4515790.00	-3.1728
Aroclor 1254	3	Averaged	5.595	5.562	5.63	8561997.90	8136290.00	-4.9721
Aroclor 1254	4	Averaged	6.113	6.079	6.147	5312874.15	5292702.00	-0.3797
Aroclor 1254	5	Averaged	6.385	6.353	6.421	7321092.90	7046954.00	-3.7445
Decachlorobiphenyl (S)		Averaged	8.657	8.623	8.691	133190612.	122835240.	-7.7749
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	114613060.	-4.8391

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

SAMPLE NO.

10983580CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/07/2018 Time: 20:27

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718028.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.395	3.361	3.429	3058740.35	2900200.00	-5.1832
Aroclor 1016	2	Averaged	3.593	3.558	3.626	3170920.60	2916590.00	-8.0207
Aroclor 1016	3	Averaged	3.907	3.875	3.943	9396963.20	8651454.00	-7.9335
Aroclor 1016	4	Averaged	4.01	3.977	4.045	4020815.35	3683440.00	-8.3907
Aroclor 1016	5	Averaged	4.076	4.044	4.112	2697941.65	2468564.00	-8.5019
Aroclor 1260	1	Averaged	6.385	6.353	6.421	10009982.0	9189518.00	-8.1965
Aroclor 1260	2	Averaged	7.089	7.056	7.124	11769278.7	10724886.0	-8.8739
Aroclor 1260	3	Averaged	7.337	7.304	7.372	5656294.05	5292272.00	-6.4357
Aroclor 1260	4	Averaged	7.527	7.495	7.563	3418830.60	3090922.00	-9.5913
Aroclor 1260	5	Averaged	7.984	7.953	8.021	3167096.35	2919082.00	-7.8310
Decachlorobiphenyl (S)		Averaged	8.655	8.623	8.691	133190612.	120651140.	-9.4147
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	110234300.	-8.4747

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

SAMPLE NO.

10983582CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/07/2018 Time: 23:37

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718040.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.853	1.819	1.887	990400.050	927736.000	-6.3271
Aroclor 1221	2	Averaged	2.471	2.437	2.505	527183.800	489430.000	-7.1614
Aroclor 1221	3	Averaged	2.757	2.724	2.792	1386989.95	1304902.00	-5.9184
Aroclor 1221	4	Averaged	2.86	2.826	2.894	1103515.20	1010210.00	-8.4553
Aroclor 1221	5	Averaged	2.923	2.889	2.957	3343089.15	3166268.00	-5.2892
Decachlorobiphenyl (S)		Averaged	8.656	8.623	8.691	133190612.	117674280.	-11.6497
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	109544300.	-9.0476

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

SAMPLE NO.

10985972CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/08/2018 Time: 02:47

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718052.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.924	2.888	2.956	2694578.00	2660126.00	-1.2786
Aroclor 1232	2	Averaged	3.593	3.558	3.626	1418110.00	1387436.00	-2.1630
Aroclor 1232	3	Averaged	3.909	3.874	3.942	4136332.00	4105940.00	-0.7348
Aroclor 1232	4	Averaged	4.012	3.977	4.045	1788600.00	1752570.00	-2.0144
Aroclor 1232	5	Averaged	4.077	4.044	4.112	1171600.00	1158478.00	-1.1200
Decachlorobiphenyl (S)		Averaged	8.656	8.623	8.691	133190612.	122278020.	-8.1932
Tetrachloro-m-xylene		Averaged	2.55	2.515	2.583	120441301.	113931080.	-5.4053

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

SAMPLE NO.

11003837CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/08/2018 Time: 14:04

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718076.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.344	4.309	4.377	2385348.25	2462836.00	3.2485
Aroclor 1248	2	Averaged	4.63	4.596	4.664	4247440.25	4285834.00	0.9039
Aroclor 1248	3	Averaged	4.898	4.864	4.932	2037039.95	2200580.00	8.0283
Aroclor 1248	4	Averaged	4.964	4.929	4.997	5477393.60	5501454.00	0.4393
Aroclor 1248	5	Averaged	5.123	5.089	5.157	3783272.55	3924454.00	3.7317
Decachlorobiphenyl (S)		Averaged	8.657	8.623	8.691	133190612.	124377160.	-6.6172
Tetrachloro-m-xylene		Averaged	2.55	2.515	2.583	120441301.	115021200.	-4.5002

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

SAMPLE NO.

11003838CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/08/2018 Time: 17:14

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718088.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.246	5.214	5.282	5639619.40	5642660.00	0.0539
Aroclor 1254	2	Averaged	5.493	5.458	5.526	4663763.05	4706260.00	0.9112
Aroclor 1254	3	Averaged	5.596	5.562	5.63	8561997.90	8426772.00	-1.5794
Aroclor 1254	4	Averaged	6.112	6.079	6.147	5312874.15	5599618.00	5.3972
Aroclor 1254	5	Averaged	6.385	6.353	6.421	7321092.90	7410084.00	1.2155
Decachlorobiphenyl (S)		Averaged	8.657	8.623	8.691	133190612.	125922660.	-5.4568
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	119848000.	-0.4926

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

SAMPLE NO.

11017116CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/08/2018 Time: 19:53

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 050718.B\050718098.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.396	3.361	3.429	3058740.35	2906790.00	-4.9677
Aroclor 1016	2	Averaged	3.593	3.558	3.626	3170920.60	2898596.00	-8.5882
Aroclor 1016	3	Averaged	3.909	3.875	3.943	9396963.20	8653980.00	-7.9066
Aroclor 1016	4	Averaged	4.012	3.977	4.045	4020815.35	3678444.00	-8.5150
Aroclor 1016	5	Averaged	4.078	4.044	4.112	2697941.65	2471534.00	-8.3919
Aroclor 1260	1	Averaged	6.386	6.353	6.421	10009982.0	9217818.00	-7.9137
Aroclor 1260	2	Averaged	7.091	7.056	7.124	11769278.7	10775178.0	-8.4466
Aroclor 1260	3	Averaged	7.338	7.304	7.372	5656294.05	5325468.00	-5.8488
Aroclor 1260	4	Averaged	7.528	7.495	7.563	3418830.60	3088088.00	-9.6741
Aroclor 1260	5	Averaged	7.987	7.953	8.021	3167096.35	2920846.00	-7.7753
Decachlorobiphenyl (S)		Averaged	8.657	8.623	8.691	133190612.	120708700.	-9.3715
Tetrachloro-m-xylene		Averaged	2.55	2.515	2.583	120441301.	109993800.	-8.6744

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

SAMPLE NO.

10983579CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/10/2018 Time: 07:42

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 051018.B\051018004.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.853	1.819	1.887	990400.050	956324.000	-3.4406
Aroclor 1221	2	Averaged	2.472	2.437	2.505	527183.800	510306.000	-3.2015
Aroclor 1221	3	Averaged	2.758	2.724	2.792	1386989.95	1343678.00	-3.1227
Aroclor 1221	4	Averaged	2.86	2.826	2.894	1103515.20	1055806.00	-4.3234
Aroclor 1221	5	Averaged	2.923	2.889	2.957	3343089.15	3286744.00	-1.6854
Decachlorobiphenyl (S)		Averaged	8.658	8.623	8.691	133190612.	118477260.	-11.0468
Tetrachloro-m-xylene		Averaged	2.55	2.515	2.583	120441301.	112797940.	-6.3461

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

05/18/2018 3:13

SAMPLE NO.

10983583CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 05/10/2018 Time: 09:46

Instrument ID: 40GCSK GC Column: Col 1
Init. Calib. Date(s): 05/03/2018 05/03/2018

Lab File ID: 051018.B\051018010.D
Init. Calib. Time(s): 10:38 18:26

SDG No.: 40158017

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.923	2.888	2.956	2694578.00	2590962.00	-3.8454
Aroclor 1232	2	Averaged	3.593	3.558	3.626	1418110.00	1348562.00	-4.9043
Aroclor 1232	3	Averaged	3.908	3.874	3.942	4136332.00	3983648.00	-3.6913
Aroclor 1232	4	Averaged	4.012	3.977	4.045	1788600.00	1702432.00	-4.8176
Aroclor 1232	5	Averaged	4.078	4.044	4.112	1171600.00	1127620.00	-3.7538
Decachlorobiphenyl (S)		Averaged	8.657	8.623	8.691	133190612.	116643940.	-12.4233
Tetrachloro-m-xylene		Averaged	2.549	2.515	2.583	120441301.	110089900.	-8.5946

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\40GCSK.i\050318.b\050318069.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 03-MAY-2018 18:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 69 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.207	10135	9331	0.921	0.05		
1.463	33399	34615	1.036	0.18		
1.575	17542	14570	0.831	0.09		
1.853	503874	494618	0.982	2.80	1 Aroclor 1221	BA
2.257	158186	139208	0.880	0.88		
2.472	262546	197513	0.752	1.46	1 Aroclor 1221	BA
2.549	5737220	5706394	0.995	31.96	$ 2 Tetrachloro-m-xylene	BA
2.758	717206	552377	0.770	3.99	1 Aroclor 1221	BA
2.861	552574	499469	0.904	3.07	1 Aroclor 1221	BA
2.924	1736998	1460097	0.841	9.67	1 Aroclor 1221	BA
3.129	36897	29553	0.801	0.20		
3.360	104991	80618	0.768	0.58		
3.405	393120	182077	0.463	2.19		
3.514	34555	28693	0.830	0.19		
3.594	137761	102991	0.748	0.76		
3.689	34161	33255	0.973	0.19		
3.815	33693	34208	1.015	0.18		
3.839	39250	34125	0.869	0.21		
3.910	326318	181143	0.555	1.81		
4.013	164038	127239	0.776	0.91		
4.079	97856	80038	0.818	0.54		
4.139	19294	12630	0.655	0.10		
4.298	32817	31230	0.952	0.18		
4.345	27622	28227	1.022	0.15		
4.504	43682	39992	0.916	0.24		
4.537	47300	32921	0.696	0.26		
4.632	62207	47040	0.756	0.34		
4.706	13166	12292	0.934	0.07		
4.900	20123	16804	0.835	0.11		
4.933	35882	28983	0.808	0.19		
4.967	49699	29730	0.598	0.27		
5.127	29261	25198	0.861	0.16		
5.595	16467	11253	0.683	0.09		
7.815	13184	17004	1.290	0.07		
7.887	10745	11079	1.031	0.05		
8.364	48778	41142	0.843	0.27		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.658	6313893	5197016	0.823	35.38	$ 12 Decachlorobiphenyl
9.004	19528	13755	0.704	0.10	
9.528	11239	10915	0.971	0.06	
	17947208	15629343		100.000	

Total unknown % area = 12

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318069.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 03-MAY-2018 18:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 69 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

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			
2.549	2.549	0.000	5737220	0.05000	0.048		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.852	1.853	-0.001	503874	0.50000	0.51	0.00- 20.00	100.00(M)	BA
2.472	2.471	0.001	262545	0.50000	0.50	0.00- 20.00	52.11	BA
2.757	2.758	-0.001	717206	0.50000	0.52	0.00- 20.00	142.34	BA
2.861	2.860	0.001	552574	0.50000	0.50	0.00- 20.00	109.67	BA
2.924	2.923	0.001	1736998	0.50000	0.52	0.00- 20.00	344.73	BA
Average of Peak Amounts =					0.51000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	6313893	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.

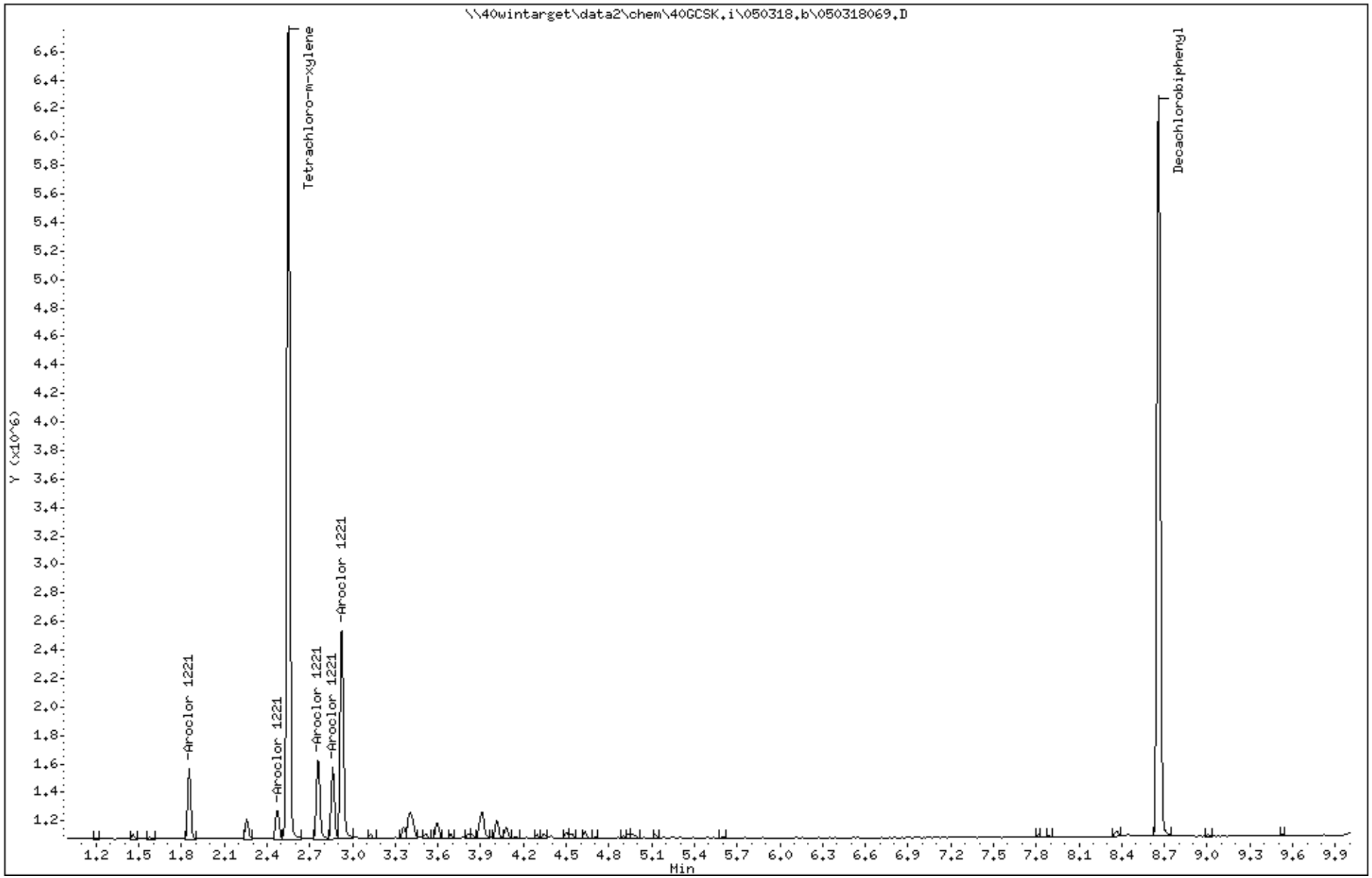
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318069.D
Date : 03-MAY-2018 18:58
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

Instrument: 40GCSK.i

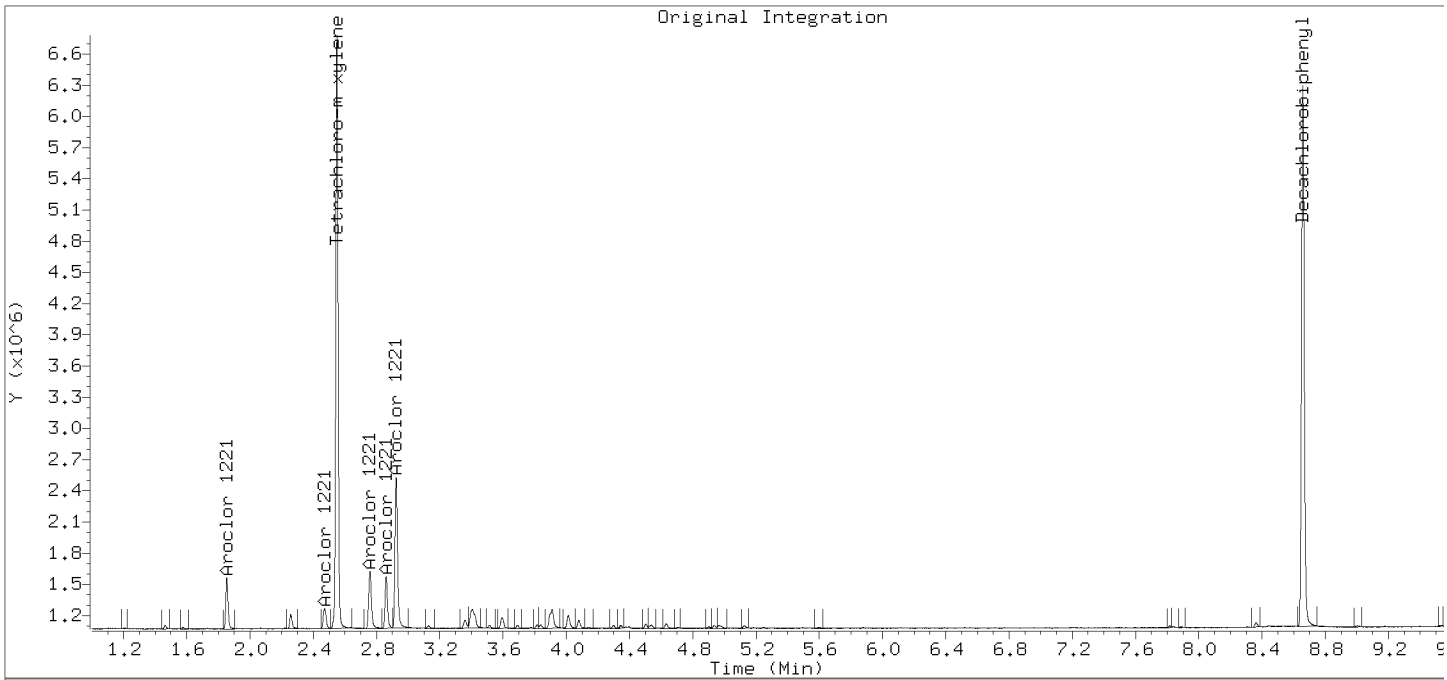
Operator: BLM

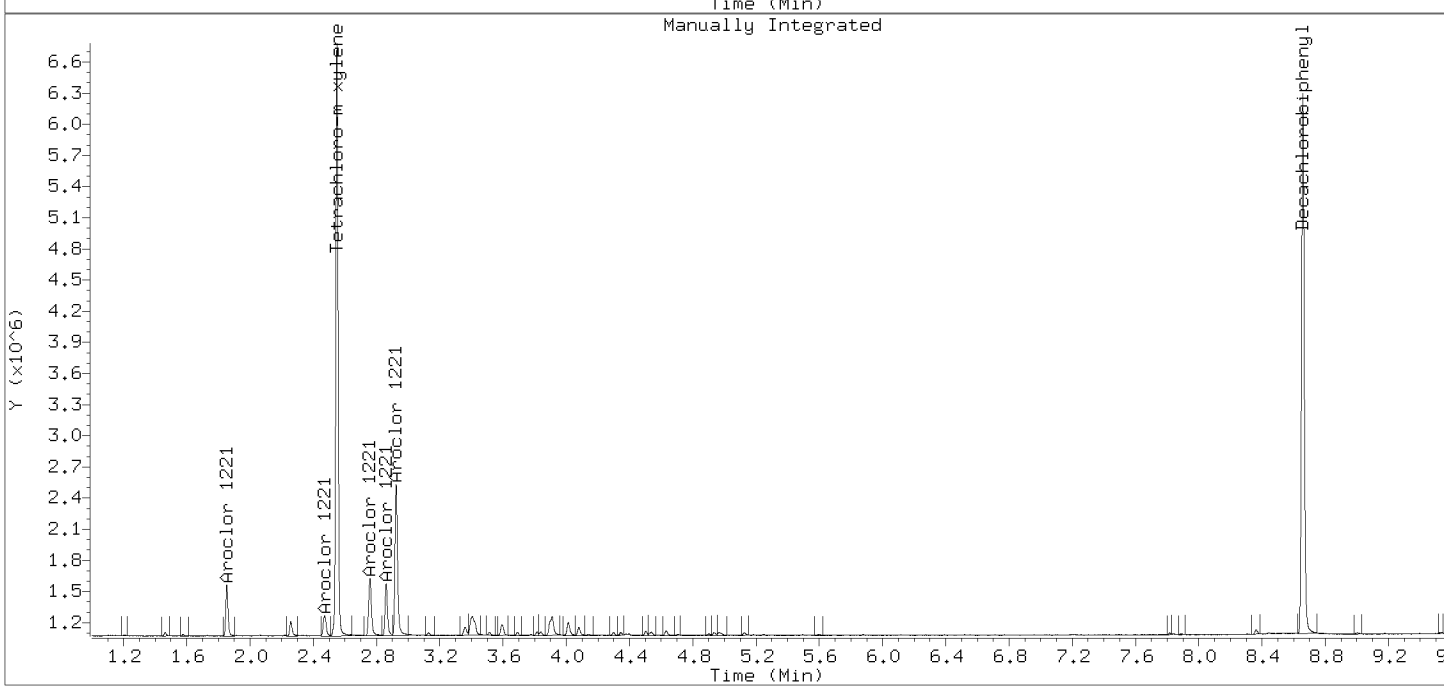
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318069.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 03-MAY-2018 18:58 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	499216	503874	BA
Aroclor 1221	499216	503874	BA
Aroclor 1221	499216	503874	BA
Aroclor 1221	499216	503874	BA
Aroclor 1221	499216	503874	BA
Tetrachloro-m-xylene	5693206	5737220	BA
Decachlorobiphenyl	6313893	6313893	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318071.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 03-MAY-2018 19:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17762,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 71 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.463	35844	32368	0.903	0.09		
1.573	12277	13515	1.101	0.03		
1.855	13915	13578	0.976	0.03		
2.469	123641	99090	0.801	0.31		
2.548	5478863	5513963	1.006	14.02	$ 2 Tetrachloro-m-xylene	
2.756	176106	135858	0.771	0.45		
2.860	267820	244962	0.915	0.68		
2.923	969700	871908	0.899	2.48		
3.130	133618	125837	0.942	0.34		
3.358	17584	13995	0.796	0.04		
3.395	1238781	1167381	0.942	3.17	3 Aroclor 1242	BA
3.421	765819	693705	0.906	1.95		
3.512	208025	179412	0.862	0.53		
3.593	1266139	927695	0.733	3.24	3 Aroclor 1242	BA
3.690	44178	35695	0.808	0.11		
3.776	33544	30658	0.914	0.08		
3.812	301547	295558	0.980	0.77		
3.837	225630	189949	0.842	0.57		
3.908	3676183	2044328	0.556	9.40	3 Aroclor 1242	BA
4.011	1596102	1247807	0.782	4.08	3 Aroclor 1242	BA
4.078	1068001	925745	0.867	2.73	3 Aroclor 1242	BA
4.142	321981	254278	0.790	0.82		
4.221	125370	104037	0.830	0.32		
4.298	841555	771015	0.916	2.15		
4.344	793916	748154	0.942	2.03		
4.376	315909	328421	1.040	0.80		
4.393	433556	372521	0.859	1.10		
4.458	31124	20639	0.663	0.07		
4.501	1109212	1023415	0.923	2.83		
4.536	927315	663293	0.715	2.37		
4.630	1437315	1270850	0.884	3.67		
4.703	352433	299019	0.848	0.90		
4.763	26140	19304	0.738	0.06		
4.813	74483	54965	0.738	0.19		
4.854	76111	68339	0.898	0.19		
4.898	642501	599914	0.934	1.64		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.933	1189632	1086480	0.913	3.04	
4.964	1585444	1088926	0.687	4.05	
5.044	193808	125081	0.645	0.49	
5.124	1287043	1106454	0.860	3.29	
5.186	285073	204208	0.716	0.72	
5.247	298428	246314	0.825	0.76	
5.298	224255	179959	0.802	0.57	
5.368	18579	18212	0.980	0.04	
5.396	48640	39736	0.817	0.12	
5.450	177459	151389	0.853	0.45	
5.494	308823	255444	0.827	0.79	
5.532	199856	165365	0.827	0.51	
5.596	526300	386988	0.735	1.34	
5.693	157265	131789	0.838	0.40	
5.760	26821	16575	0.618	0.06	
5.799	21934	21663	0.988	0.05	
5.828	42234	31503	0.746	0.10	
5.878	353196	242396	0.686	0.90	
5.978	47132	28120	0.597	0.12	
6.113	339947	224601	0.661	0.86	
6.254	24579	16569	0.674	0.06	
6.388	63419	54698	0.862	0.16	
6.417	12340	12413	1.006	0.03	
6.593	10963	10303	0.940	0.02	
6.624	30366	20043	0.660	0.07	
6.894	14033	11760	0.838	0.03	
7.089	17453	15010	0.860	0.04	
7.816	20478	18550	0.906	0.05	
7.841	32277	24888	0.771	0.08	
8.360	51166	42588	0.832	0.13	
8.440	56079	36321	0.648	0.14	
8.658	6048946	5104647	0.844	15.79	$ 12 Decachlorobiphenyl
9.001	79156	50822	0.642	0.20	
9.526	120210	70478	0.586	0.30	
	39075573	32641464		100.000	

Total unknown % area = 48

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318071.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 03-MAY-2018 19:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17762,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 71 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

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			
2.548	2.549	-0.001	5478863	0.05000	0.045			
3 Aroclor 1242					CAS #: 53469-21-9			
3.395	3.396	-0.001	1238781	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.592	3.592	0.000	1266139	0.50000	0.51	0.00- 20.00	102.21	BA
3.908	3.909	-0.001	3676183	0.50000	0.51	0.00- 20.00	296.76	BA
4.010	4.011	-0.001	1596102	0.50000	0.51	0.00- 20.00	128.84	BA
4.077	4.078	-0.001	1068001	0.50000	0.51	0.00- 20.00	86.21	BA
Average of Peak Amounts =					0.51000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	6048946	0.05000	0.045			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

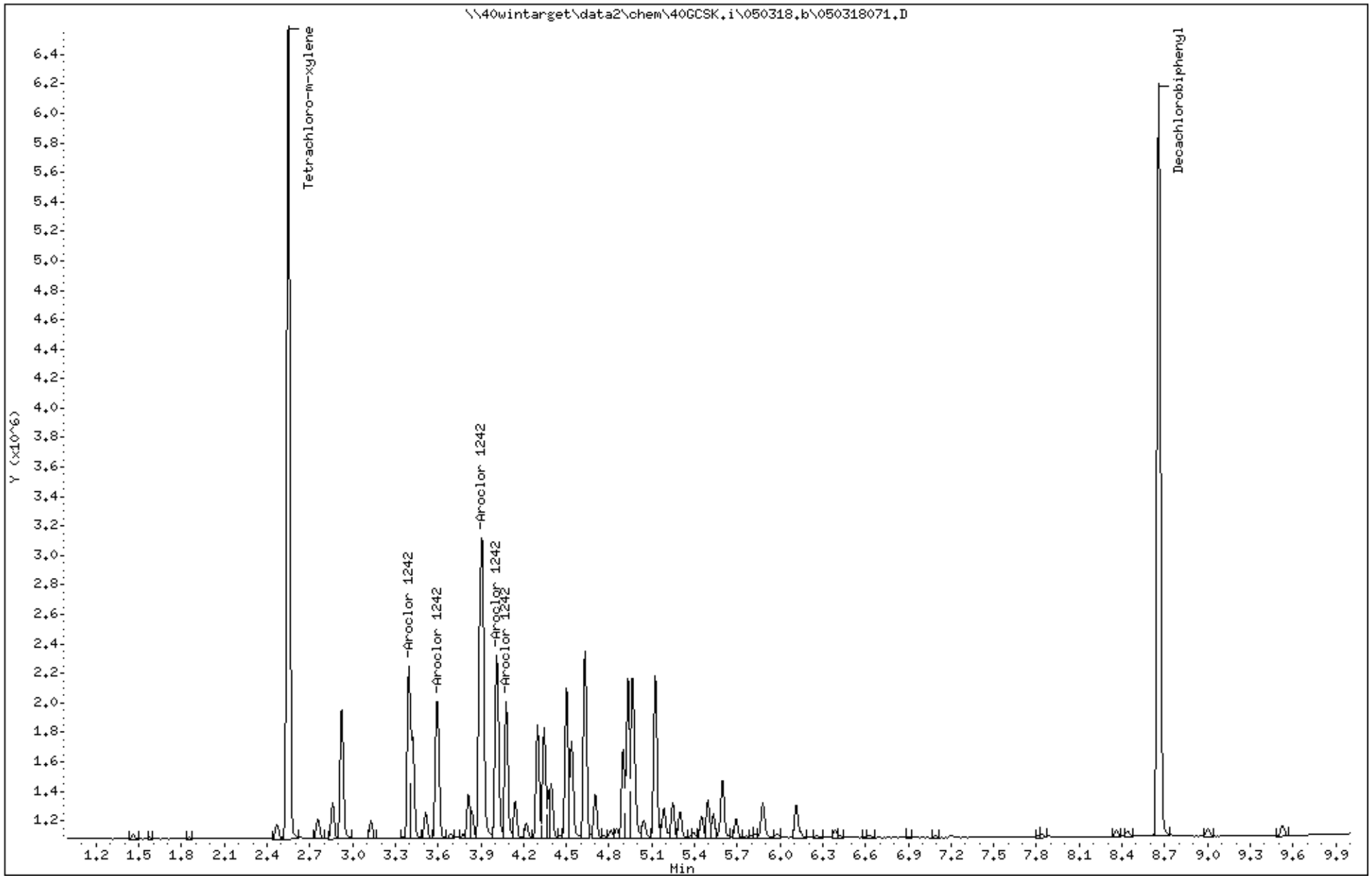
Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318071.D
Date : 03-MAY-2018 19:14
Client ID: 1242-ICV
Sample Info: 1242-ICV, 185562:1

Instrument: 40GCSK.i

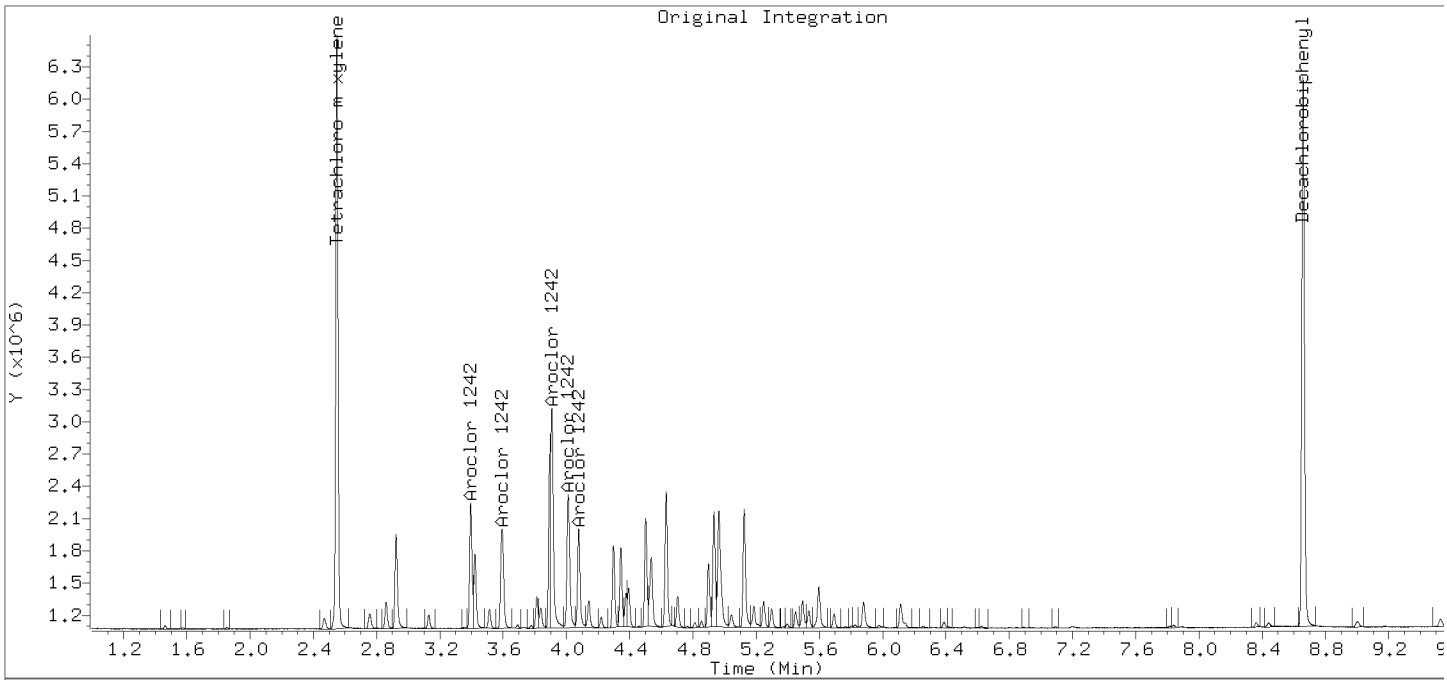
Operator: BLM

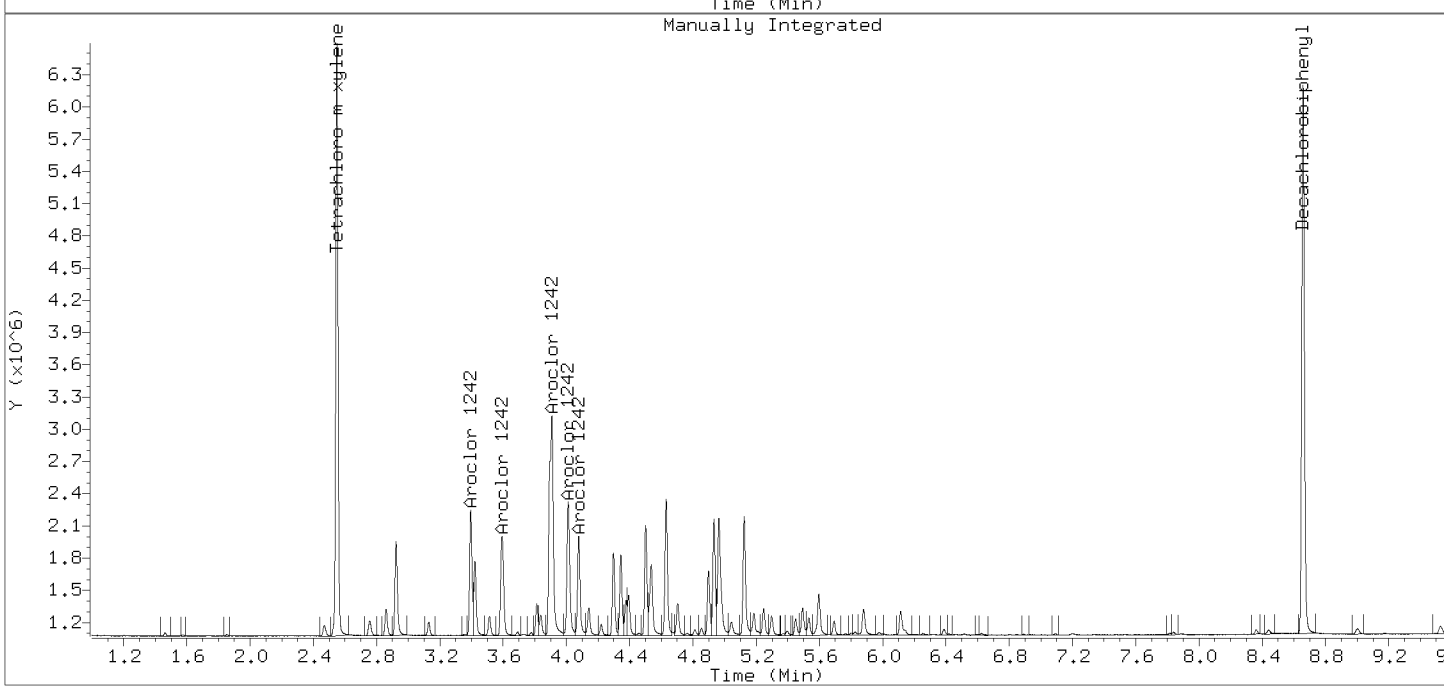
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318071.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 03-MAY-2018 19:14 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1232012	1238781	BA
Aroclor 1242	1232012	1238781	BA
Aroclor 1242	1232012	1238781	BA
Aroclor 1242	1232012	1238781	BA
Aroclor 1242	1232012	1238781	BA
Tetrachloro-m-xylene	5478863	5478863	
Decachlorobiphenyl	6048946	6048946	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318073.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 03-MAY-2018 19:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 73 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.201	13077	11111	0.850	0.02		
1.462	40308	33423	0.829	0.08		
1.577	14087	13915	0.988	0.03		
2.550	5700485	5690886	0.998	12.26	$ 2 Tetrachloro-m-xylene	
2.857	96917	86462	0.892	0.20		
2.923	99052	81130	0.819	0.21		
3.129	46038	43514	0.945	0.09		
3.396	642155	631729	0.984	1.38		
3.422	279406	240309	0.860	0.60		
3.513	47670	43518	0.913	0.10		
3.595	527858	379953	0.720	1.13		
3.689	38993	36122	0.926	0.08		
3.814	131939	95879	0.727	0.28		
3.896	1026878	1125360	1.096	2.21		
3.908	1318198	1163514	0.883	2.83		
4.014	873398	635447	0.728	1.87		
4.078	576997	486531	0.843	1.24		
4.142	375813	332174	0.884	0.80		
4.220	154503	133758	0.866	0.33		
4.298	1545431	1408016	0.911	3.32		
4.344	1268942	1177626	0.928	2.73	6 Aroclor 1248	BA
4.377	509119	545631	1.072	1.09		
4.393	654561	542912	0.829	1.40		
4.501	1870533	1736730	0.928	4.02		
4.537	1017858	831513	0.817	2.19		
4.630	2233067	1945005	0.871	4.80	6 Aroclor 1248	BA
4.703	533791	462216	0.866	1.14		
4.763	38285	26426	0.690	0.08		
4.811	70035	50273	0.718	0.15		
4.853	121261	105557	0.870	0.26		
4.898	1109631	1062433	0.957	2.38	6 Aroclor 1248	BA
4.932	2167426	1954051	0.902	4.66		
4.965	2910130	1804455	0.620	6.26	6 Aroclor 1248	BA
5.043	395059	272984	0.691	0.85		
5.124	2041506	1732611	0.849	4.39	6 Aroclor 1248	BA
5.185	667983	564724	0.845	1.43		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.211	84240	87652	1.041	0.18	
5.247	852365	736449	0.864	1.83	
5.298	652235	543651	0.834	1.40	
5.367	50821	41542	0.817	0.10	
5.394	138318	111668	0.807	0.29	
5.450	531494	440749	0.829	1.14	
5.494	899453	770622	0.857	1.93	
5.533	576847	490901	0.851	1.24	
5.596	1515566	1188962	0.785	3.26	
5.691	456735	373651	0.818	0.98	
5.761	47093	34421	0.731	0.10	
5.801	86395	63657	0.737	0.18	
5.827	108747	92762	0.853	0.23	
5.879	1092155	787035	0.721	2.35	
5.977	157484	83047	0.527	0.33	
6.080	33565	27970	0.833	0.07	
6.113	990166	725645	0.733	2.13	
6.256	75887	53287	0.702	0.16	
6.314	62899	29916	0.476	0.13	
6.386	243403	197816	0.813	0.52	
6.421	55951	41464	0.741	0.12	
6.460	41540	30769	0.741	0.08	
6.599	14833	14769	0.996	0.03	
6.625	92957	67554	0.727	0.20	
6.804	19855	16628	0.837	0.04	
6.848	10150	10279	1.013	0.02	
6.891	39848	33489	0.840	0.08	
6.930	10350	9033	0.873	0.02	
7.093	42725	33246	0.778	0.09	
7.337	15785	17428	1.104	0.03	
7.530	10456	11576	1.107	0.02	
7.816	15398	16262	1.056	0.03	
7.987	13351	10754	0.805	0.02	
8.361	57119	44383	0.777	0.12	
8.446	13733	9579	0.698	0.02	
8.657	6175168	5142488	0.833	13.60	$ 12 Decachlorobiphenyl
9.000	10534	11040	1.048	0.02	
9.174	10329	8529	0.826	0.02	
	46464343	39898571		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318073.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 03-MAY-2018 19:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 73 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

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			
2.549	2.549	0.000	5700485	0.05000	0.047			
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1268942	0.50000	0.53	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	2233066	0.50000	0.52	0.00- 20.00	175.98	BA
4.898	4.898	0.000	1109631	0.50000	0.54	0.00- 20.00	87.45	BA
4.964	4.963	0.001	2910130	0.50000	0.53	0.00- 20.00	229.34	BA
5.124	5.123	0.001	2041505	0.50000	0.54	0.00- 20.00	160.88	BA
Average of Peak Amounts =					0.53200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	6175168	0.05000	0.046			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

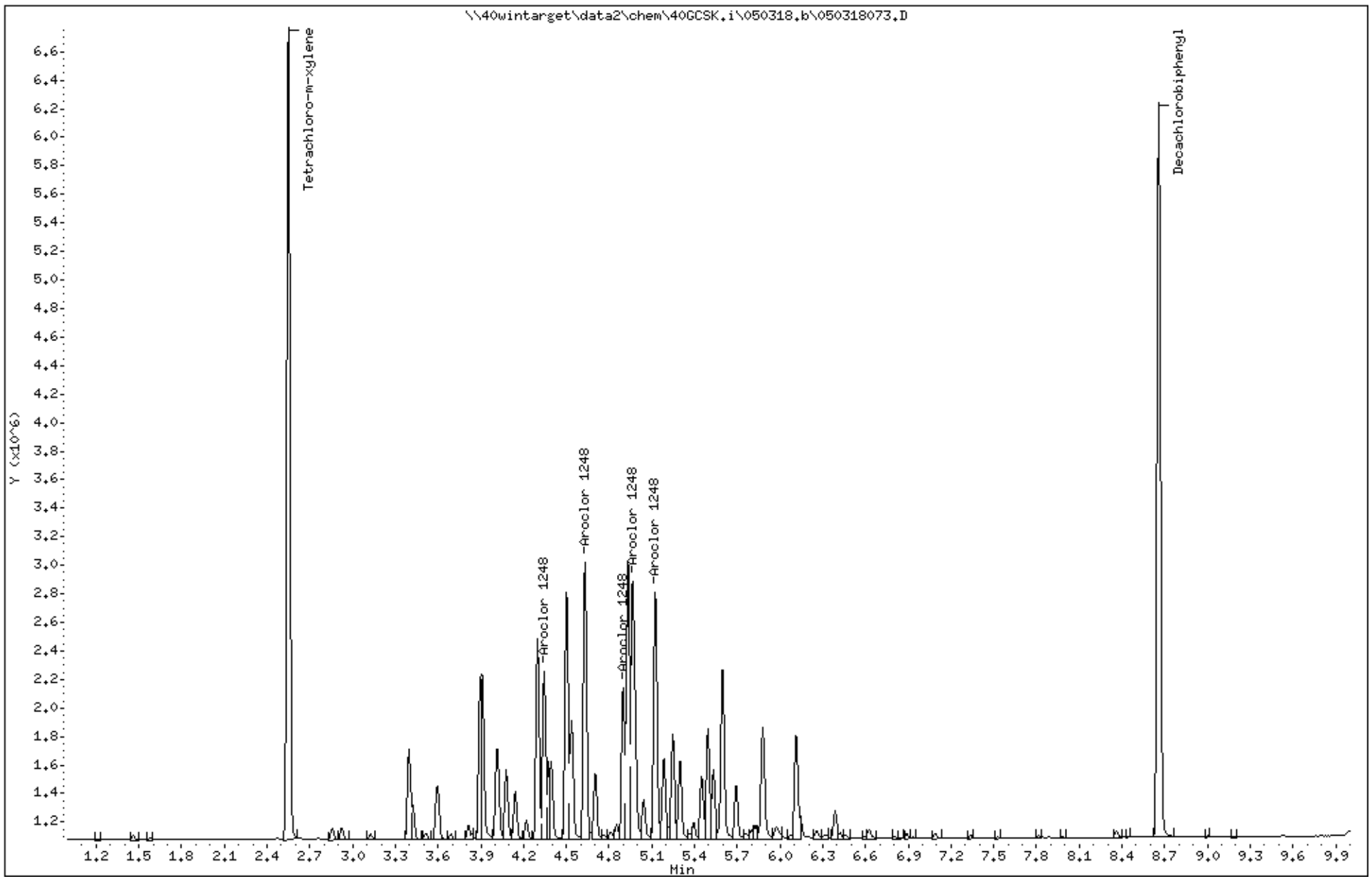
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318073.D
Date : 03-MAY-2018 19:30
Client ID: 1248-ICV
Sample Info: 1248-ICV, 185563:1

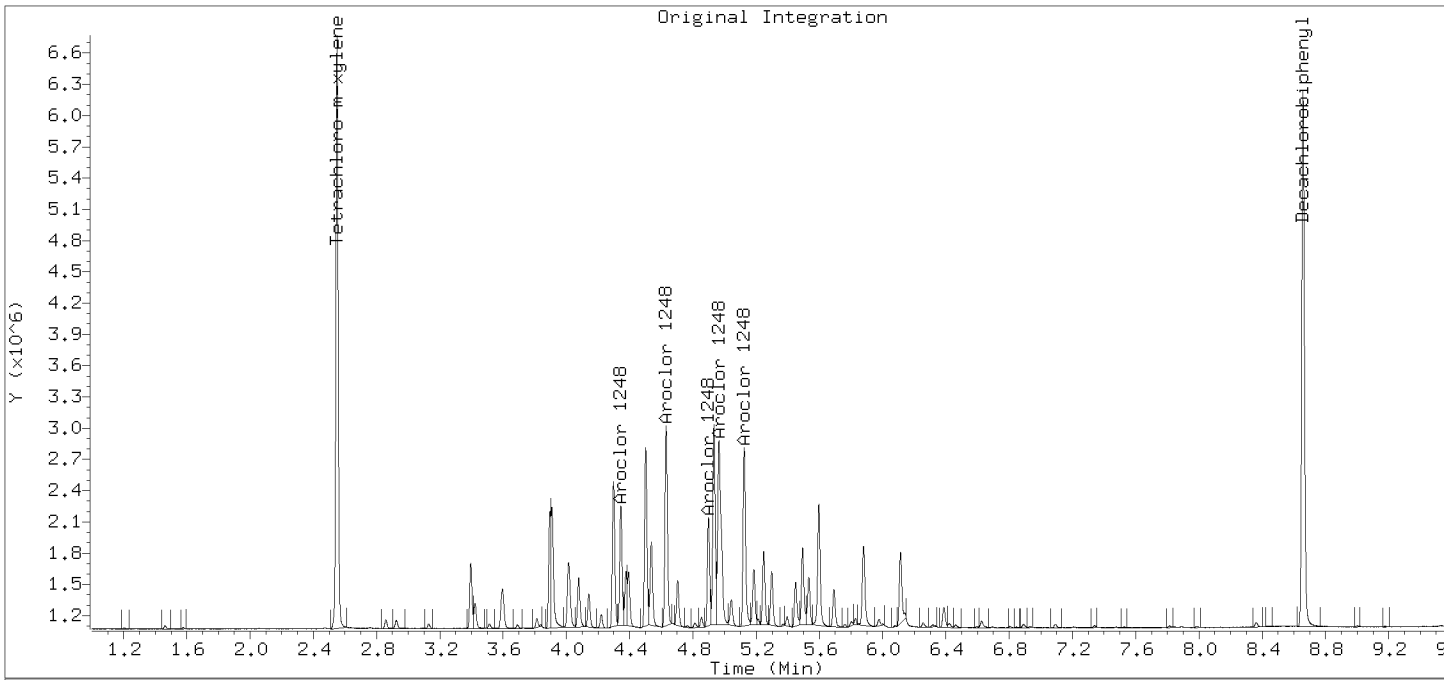
Instrument: 40GCSK.i

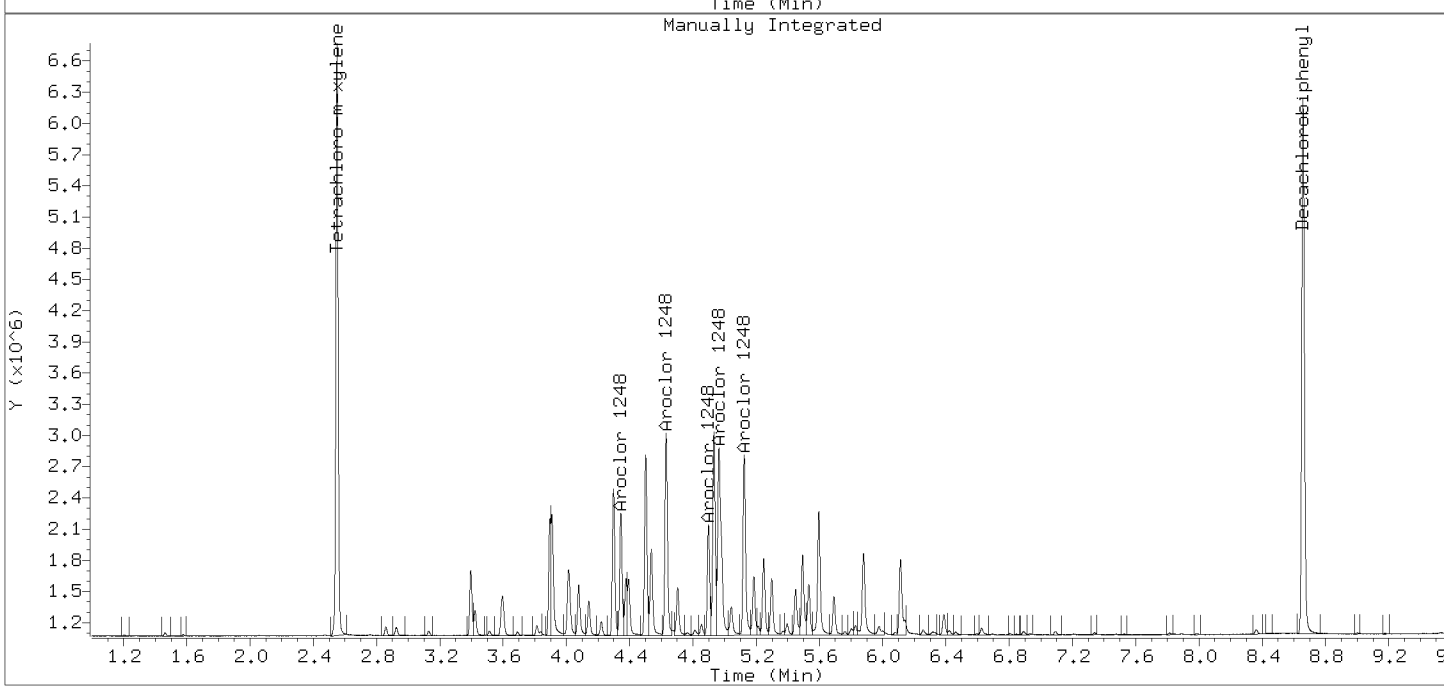
Operator: BLM

Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318073.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 03-MAY-2018 19:30 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1202141	1268942	BA
Aroclor 1248	1202141	1268942	BA
Aroclor 1248	1202141	1268942	BA
Aroclor 1248	1202141	1268942	BA
Aroclor 1248	1202141	1268942	BA
Tetrachloro-m-xylene	5700485	5700485	
Decachlorobiphenyl	6175168	6175168	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318075.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 03-MAY-2018 19:47
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17762,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 75 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.204	17099	17961	1.050	0.03		
1.464	31166	33364	1.071	0.05		
1.577	14206	14058	0.990	0.02		
1.731	11847	9407	0.794	0.02		
2.060	15196	12514	0.824	0.02		
2.549	5743333	5753407	1.002	10.47	$ 2 Tetrachloro-m-xylene	
2.627	12732	9353	0.735	0.02		
2.858	79639	77785	0.977	0.14		
2.927	12980	8985	0.692	0.02		
3.125	16855	16020	0.950	0.03		
3.397	16419	18396	1.120	0.02		
3.594	17751	13278	0.748	0.03		
3.691	37251	35004	0.940	0.06		
3.896	63801	33202	0.520	0.11		
4.018	41828	32657	0.781	0.07		
4.077	17769	15744	0.886	0.03		
4.143	11045	11484	1.040	0.02		
4.297	1140921	1054492	0.924	2.07		
4.344	318256	288043	0.905	0.58		
4.377	85603	48763	0.570	0.15		
4.501	656003	628544	0.958	1.19		
4.537	85551	62215	0.727	0.15		
4.631	299718	265589	0.886	0.54		
4.676	15483	15921	1.028	0.02		
4.705	48979	42219	0.862	0.08		
4.767	19241	15313	0.796	0.03		
4.853	14712	14318	0.973	0.02		
4.899	245661	230129	0.937	0.44		
4.933	994286	910618	0.916	1.81		
4.979	2371066	1856379	0.783	4.32		
5.042	413458	342850	0.829	0.75		
5.125	204825	166373	0.812	0.37		
5.184	1393866	1221049	0.876	2.54		
5.247	2614549	2353889	0.900	4.76	7 Aroclor 1254	BA
5.297	1241088	1053718	0.849	2.26		
5.370	69211	63771	0.921	0.12		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.396	220325	189888	0.862	0.40	
5.449	1013847	913641	0.901	1.84	
5.493	2173195	1882833	0.866	3.96	7 Aroclor 1254
5.532	738078	639085	0.866	1.34	
5.565	286902	270171	0.942	0.52	
5.596	3861776	3372688	0.873	7.04	7 Aroclor 1254
5.662	50846	51116	1.005	0.09	
5.692	550798	460807	0.837	1.00	
5.761	377836	346807	0.918	0.68	
5.798	579412	369848	0.638	1.05	
5.827	353740	282902	0.800	0.64	
5.876	4118337	3012619	0.732	7.50	
5.971	393764	277732	0.705	0.71	
6.015	229046	139312	0.608	0.41	
6.080	358780	326574	0.910	0.65	
6.115	2448399	2028758	0.829	4.46	7 Aroclor 1254
6.142	2033287	1607258	0.790	3.70	
6.256	789148	639377	0.810	1.43	
6.315	327132	316806	0.968	0.59	
6.329	362225	302932	0.836	0.66	
6.386	3514486	2966961	0.844	6.40	7 Aroclor 1254
6.420	718816	609787	0.848	1.31	
6.461	400793	308622	0.770	0.73	
6.523	122606	60633	0.495	0.22	
6.572	23239	22706	0.977	0.04	
6.596	140664	134429	0.956	0.25	
6.624	1211758	922684	0.761	2.20	
6.692	195149	142227	0.729	0.35	
6.748	40047	30034	0.750	0.07	
6.806	241653	203276	0.841	0.44	
6.846	141780	127747	0.901	0.25	
6.889	701855	589038	0.839	1.27	
6.931	210314	128990	0.613	0.38	
7.029	64583	56107	0.869	0.11	
7.091	462405	417142	0.902	0.84	
7.160	21914	16712	0.763	0.03	
7.340	405589	352005	0.868	0.73	
7.370	100166	83077	0.829	0.18	
7.475	17505	14994	0.857	0.03	
7.530	30025	22507	0.750	0.05	
7.643	30854	19792	0.641	0.05	
7.778	13772	13256	0.963	0.02	
7.813	18587	17743	0.955	0.03	
7.838	17620	13509	0.767	0.03	
7.985	16013	17071	1.066	0.02	
8.362	55075	44062	0.800	0.10	
8.441	19743	12008	0.608	0.03	
8.658	6204635	5190066	0.836	11.72	$ 12 Decachlorobiphenyl
9.006	29653	17197	0.580	0.05	
9.530	23017	16038	0.697	0.04	
	54854583	46748386		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318075.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 03-MAY-2018 19:47
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17762,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 75 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

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			
2.549	2.549	0.000	5743332	0.05000	0.048			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	2614549	0.50000	0.46	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	2173195	0.50000	0.46	0.00- 20.00	83.12	BA
5.596	5.596	0.000	3861775	0.50000	0.45	0.00- 20.00	147.70	BA
6.115	6.113	0.002	2448399	0.50000	0.46	0.00- 20.00	93.65	BA
6.386	6.387	-0.001	3514485	0.50000	0.48	0.00- 20.00	134.42	BA
Average of Peak Amounts =					0.46200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.658	8.657	0.001	6204635	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\40GCSK.i\050318.b\050318075.D

Date : 03-MAY-2018 19:47

Client ID: 1254-ICV

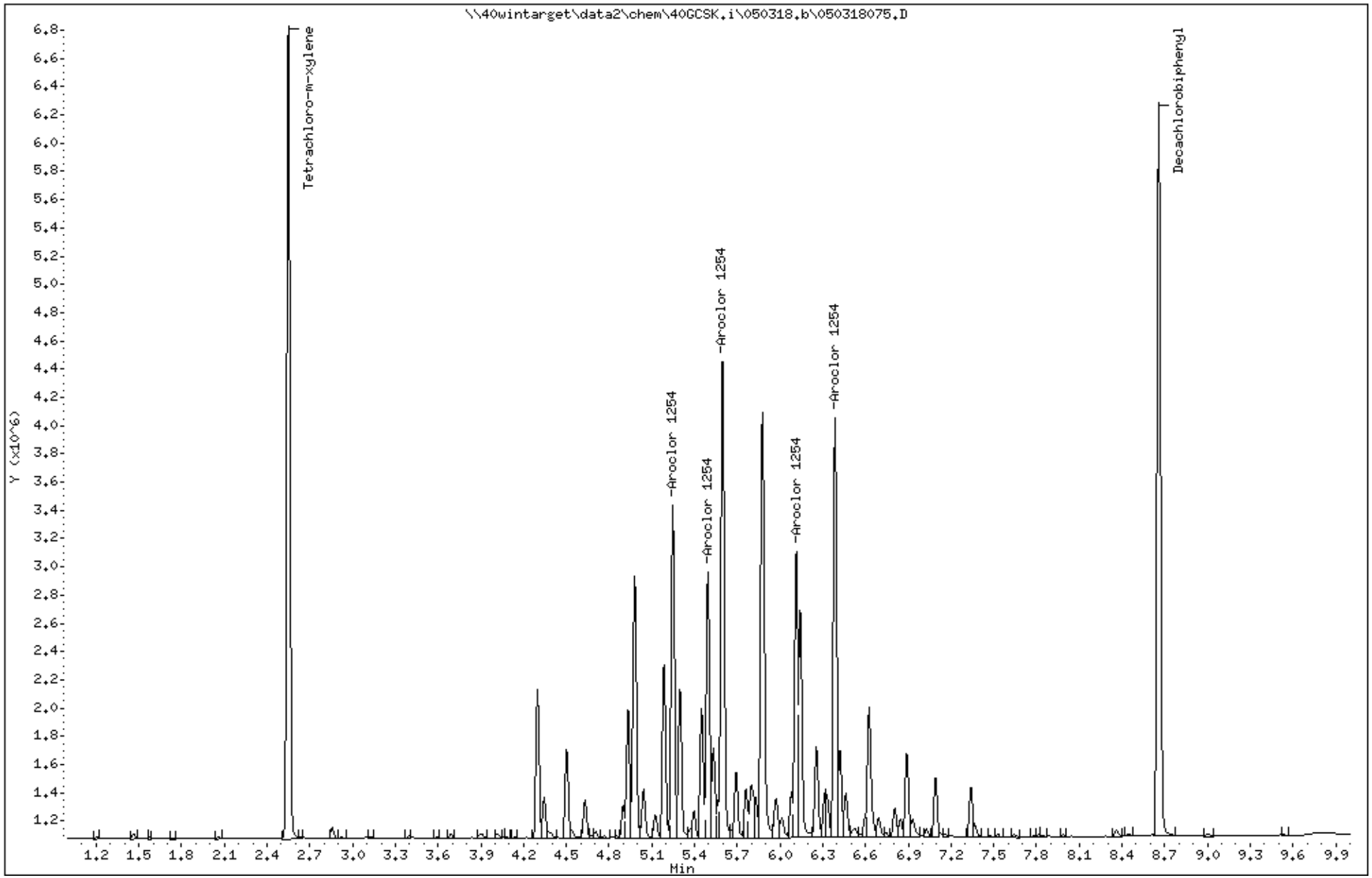
Instrument: 40GCSK.i

Sample Info: 1254-ICV, 185564:1

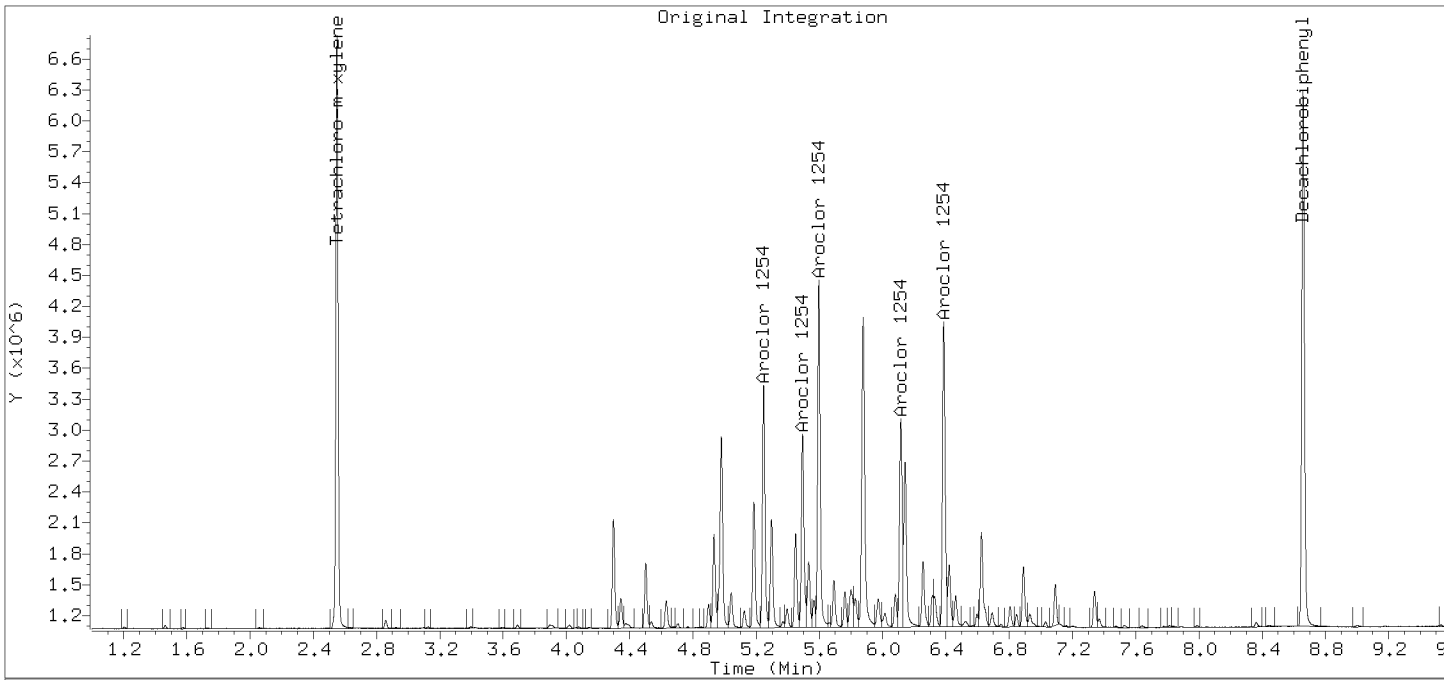
Operator: BLM

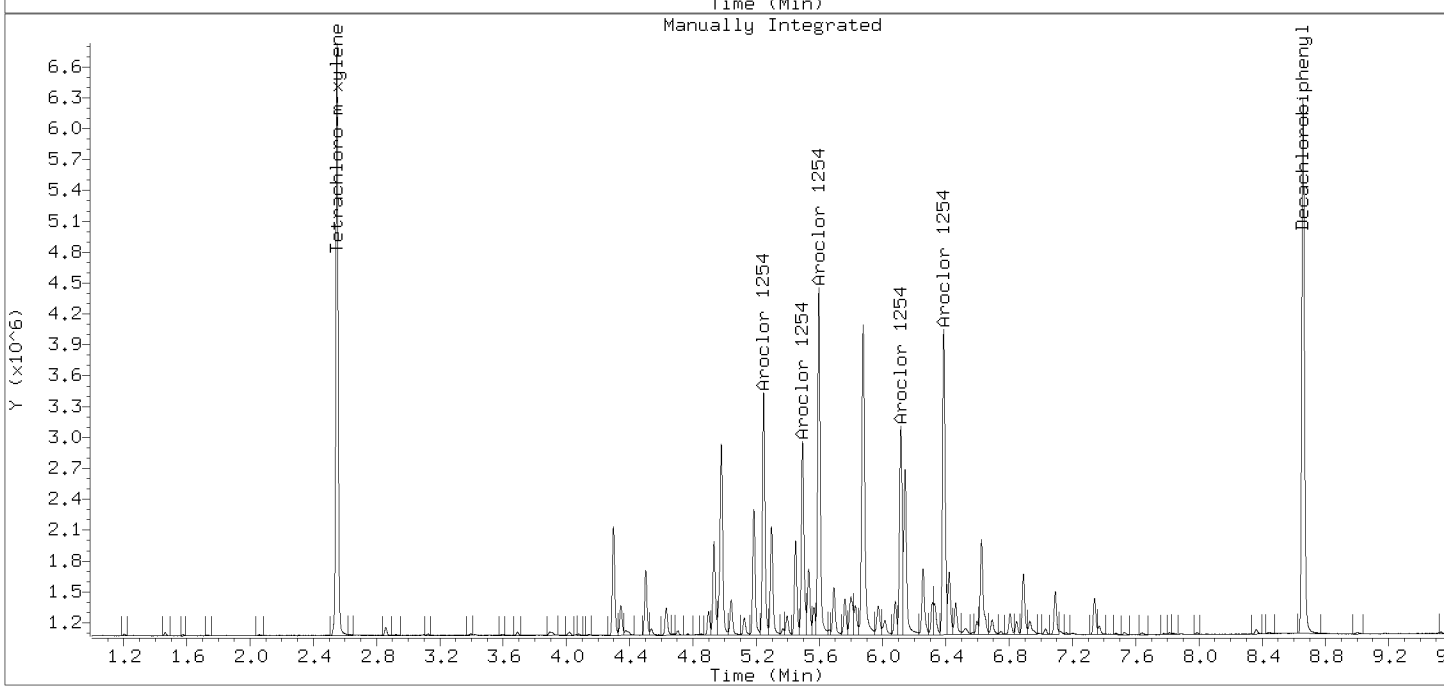
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318075.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 03-MAY-2018 19:47 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2602673	2614549	BA
Aroclor 1254	2602673	2614549	BA
Aroclor 1254	2602673	2614549	BA
Aroclor 1254	2602673	2614549	BA
Aroclor 1254	2602673	2614549	BA
Tetrachloro-m-xylene	5743332	5743332	
Decachlorobiphenyl	6204635	6204635	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318077.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 03-MAY-2018 20:03
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 77 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.463	31732	32104	1.012	0.03		
1.575	12413	14317	1.153	0.01		
1.853	14997	14556	0.971	0.01		
2.470	127923	104735	0.819	0.14		
2.549	5601002	5545799	0.990	6.13	$ 2 Tetrachloro-m-xylene	
2.757	192174	146010	0.760	0.21		
2.861	283324	258623	0.913	0.31		
2.923	1097809	978941	0.892	1.20		
3.129	159774	152913	0.957	0.17		
3.354	16305	16548	1.015	0.01		
3.395	1563197	1443063	0.923	1.71	5 Aroclor 1016	BA
3.423	968278	863609	0.892	1.06		
3.514	262759	220916	0.841	0.28		
3.594	1584255	1128444	0.712	1.73	5 Aroclor 1016	BA
3.691	40233	37202	0.925	0.04		
3.727	25623	16299	0.636	0.02		
3.777	41793	40660	0.973	0.04		
3.812	381201	374925	0.984	0.41		
3.837	278916	240594	0.863	0.30		
3.909	4734182	2608452	0.551	5.18	5 Aroclor 1016	BA
4.011	2021461	1559795	0.772	2.21	5 Aroclor 1016	BA
4.078	1341168	1176874	0.877	1.46	5 Aroclor 1016	BA
4.142	422007	362148	0.858	0.46		
4.221	170362	135373	0.795	0.18		
4.298	1138812	1050073	0.922	1.24		
4.344	1065052	992902	0.932	1.16		
4.375	443003	462500	1.044	0.48		
4.394	596411	529680	0.888	0.65		
4.455	31283	23372	0.747	0.03		
4.501	1403104	1297114	0.924	1.53		
4.537	996131	783795	0.787	1.09		
4.631	1660717	1438732	0.866	1.81		
4.704	321139	273627	0.852	0.35		
4.765	29396	16952	0.577	0.03		
4.814	38475	28291	0.735	0.04		
4.856	28748	24693	0.859	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.899	158670	145094	0.914	0.17	
4.934	254032	226367	0.891	0.27	
4.980	1279246	1025964	0.802	1.40	
5.042	64414	42152	0.654	0.07	
5.125	83932	68782	0.819	0.09	
5.185	254583	222475	0.874	0.27	
5.248	1263180	1119526	0.886	1.38	
5.296	49757	34450	0.692	0.05	
5.393	17166	15182	0.884	0.01	
5.450	56877	51756	0.910	0.06	
5.493	289714	258801	0.893	0.31	
5.565	540051	521461	0.966	0.59	
5.596	808210	717645	0.888	0.88	
5.760	1468800	1377582	0.938	1.60	
5.795	1012001	562843	0.556	1.10	
5.872	3460428	2975427	0.860	3.79	
5.970	217696	191558	0.880	0.23	
6.015	103462	86979	0.841	0.11	
6.078	590852	550742	0.932	0.64	
6.117	1243922	1230724	0.989	1.36	
6.141	4060031	3324709	0.819	4.44	
6.255	2619668	1601934	0.612	2.86	
6.344	536818	335541	0.625	0.58	
6.387	4706693	3823937	0.812	5.15	8 Aroclor 1260
6.420	675088	590940	0.875	0.73	
6.461	161877	119422	0.738	0.17	
6.518	540471	460445	0.852	0.59	
6.572	101691	138840	1.365	0.11	
6.596	2517779	2204060	0.875	2.75	
6.624	341233	405281	1.188	0.37	
6.647	1539912	1335149	0.867	1.68	
6.691	141878	112209	0.791	0.15	
6.747	482763	451547	0.935	0.52	
6.805	2698462	2467706	0.914	2.95	
6.846	1529762	1355734	0.886	1.67	
6.890	1160456	1006750	0.868	1.27	
6.925	229471	197257	0.860	0.25	
6.955	107372	92385	0.860	0.11	
6.998	158627	147088	0.927	0.17	
7.029	531751	492029	0.925	0.58	
7.091	5964965	5342618	0.896	6.53	8 Aroclor 1260
7.121	435705	400911	0.920	0.47	
7.159	186803	147073	0.787	0.20	
7.208	270123	211363	0.782	0.29	
7.269	10418	11174	1.073	0.01	
7.338	2881495	2542057	0.882	3.15	8 Aroclor 1260
7.368	811843	680501	0.838	0.88	
7.476	1469357	1219599	0.830	1.60	
7.529	1704690	1465970	0.860	1.86	8 Aroclor 1260
7.639	122417	97289	0.795	0.13	
7.778	720446	672721	0.934	0.78	
7.815	208305	130050	0.624	0.22	
7.886	84000	63617	0.757	0.09	
7.987	1687251	1426950	0.846	1.84	8 Aroclor 1260
8.051	132265	96124	0.727	0.14	
8.360	594977	496368	0.834	0.65	
8.438	68124	55769	0.819	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.615	10805	11359	1.051	0.01	
8.657	6250490	5391309	0.863	7.33	$ 12 Decachlorobiphenyl
8.885	9999	7160	0.716	0.01	
9.001	200481	114375	0.571	0.21	
9.524	285878	145641	0.509	0.31	
	91294791	77213102		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050318.b\050318077.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 03-MAY-2018 20:03
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050318.b\pcba050318.m
Meth Date : 07-May-2018 10:32 bmeyerhofe Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 77 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None
Processing Host: 40D-BMEYERHOFER

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			
2.549	2.549	0.000	5601001	0.05000	0.046			
5 Aroclor 1016					CAS #: 12674-11-2			
3.394	3.395	-0.001	1563196	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.594	3.592	0.002	1584254	0.50000	0.50	0.00- 20.00	101.35	BA
3.908	3.909	-0.001	4734182	0.50000	0.50	0.00- 20.00	302.85	BA
4.011	4.011	0.000	2021460	0.50000	0.50	0.00- 20.00	129.32	BA
4.077	4.078	-0.001	1341167	0.50000	0.50	0.00- 20.00	85.80	BA
Average of Peak Amounts =					0.50200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	4706692	0.50000	0.47	0.00- 20.00	100.00(M)	BA
7.090	7.090	0.000	5964964	0.50000	0.51	0.00- 20.00	126.73	BA
7.337	7.338	-0.001	2881495	0.50000	0.51	0.00- 20.00	61.22	BA
7.528	7.529	-0.001	1704690	0.50000	0.50	0.00- 20.00	36.22	BA
7.986	7.987	-0.001	1687251	0.50000	0.53	0.00- 20.00	35.85	BA
Average of Peak Amounts =					0.50400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	6250490	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

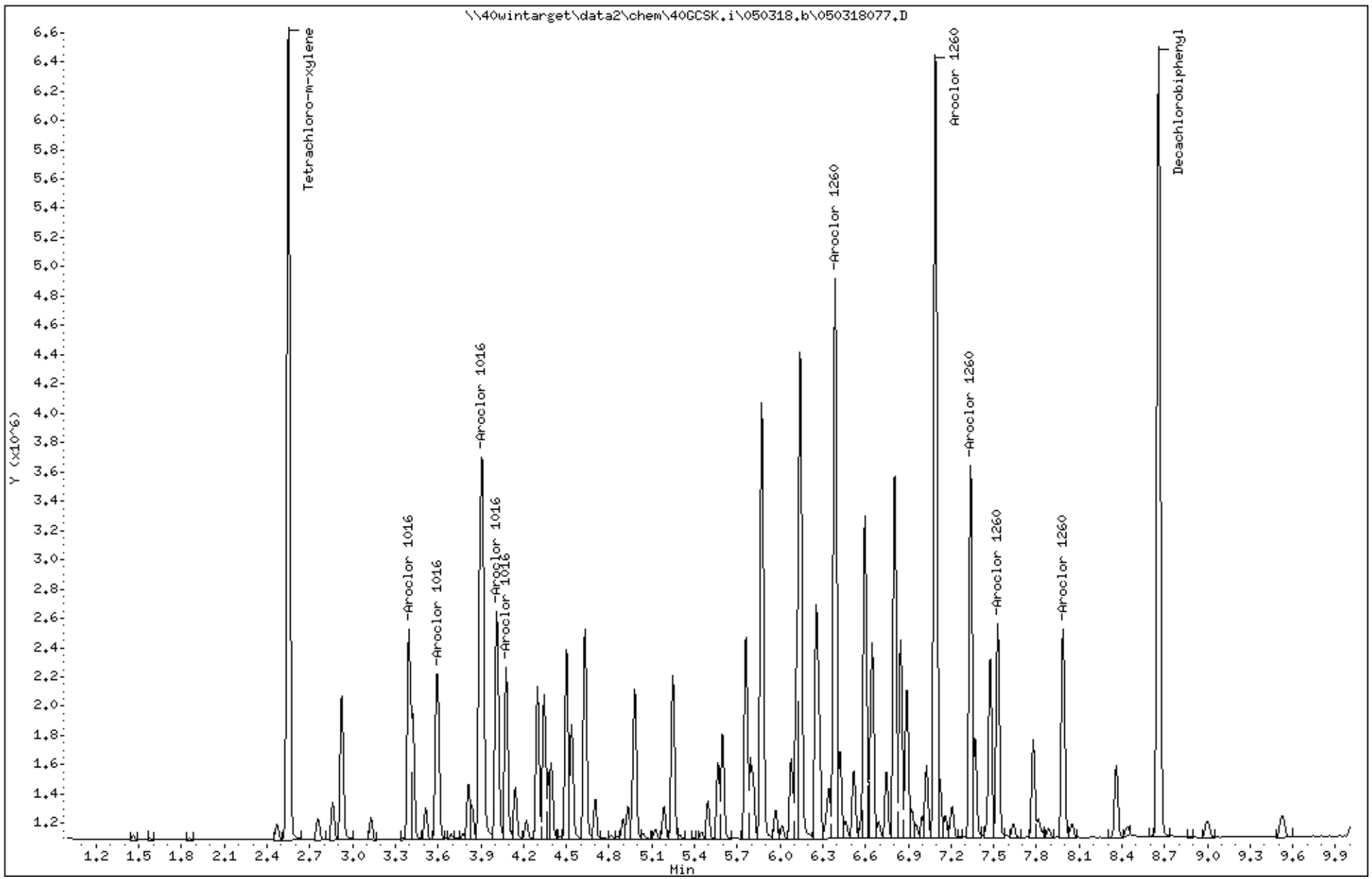
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b\050318077.D
Date : 03-MAY-2018 20:03
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

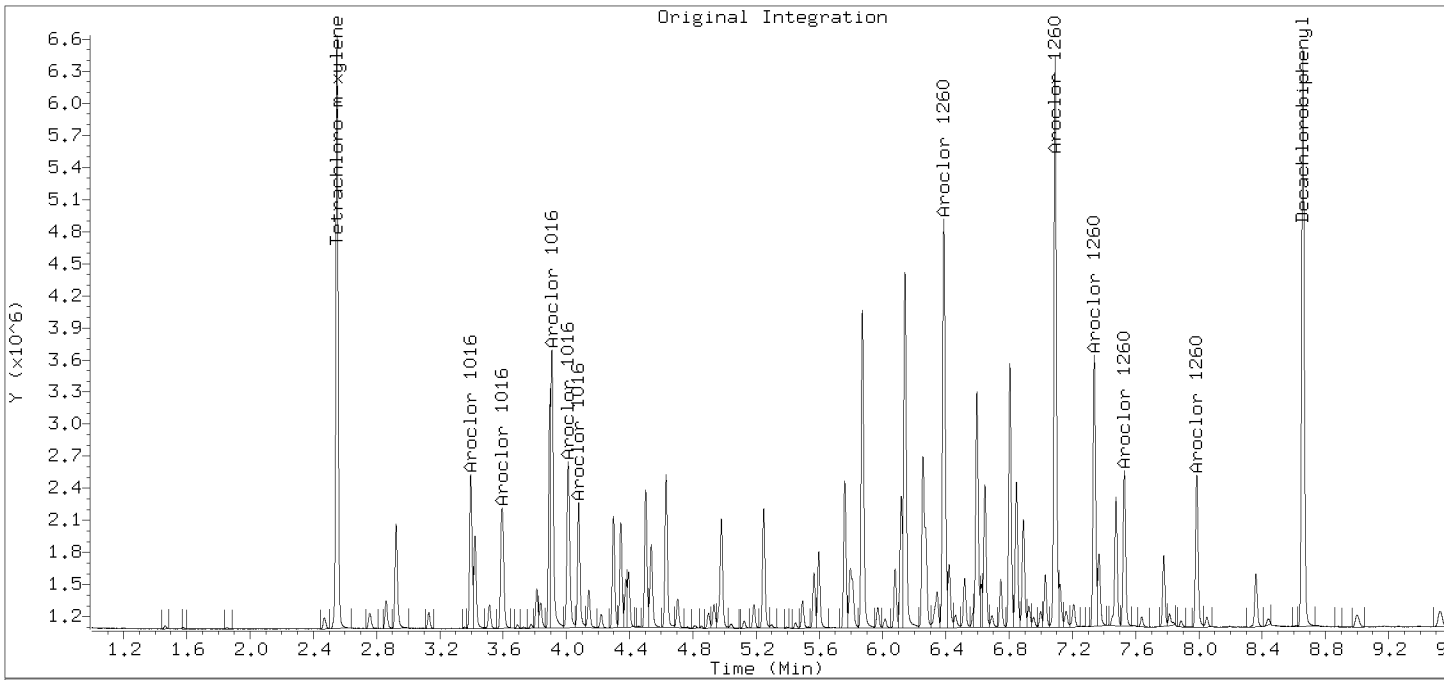
Instrument: 40GCSK.i

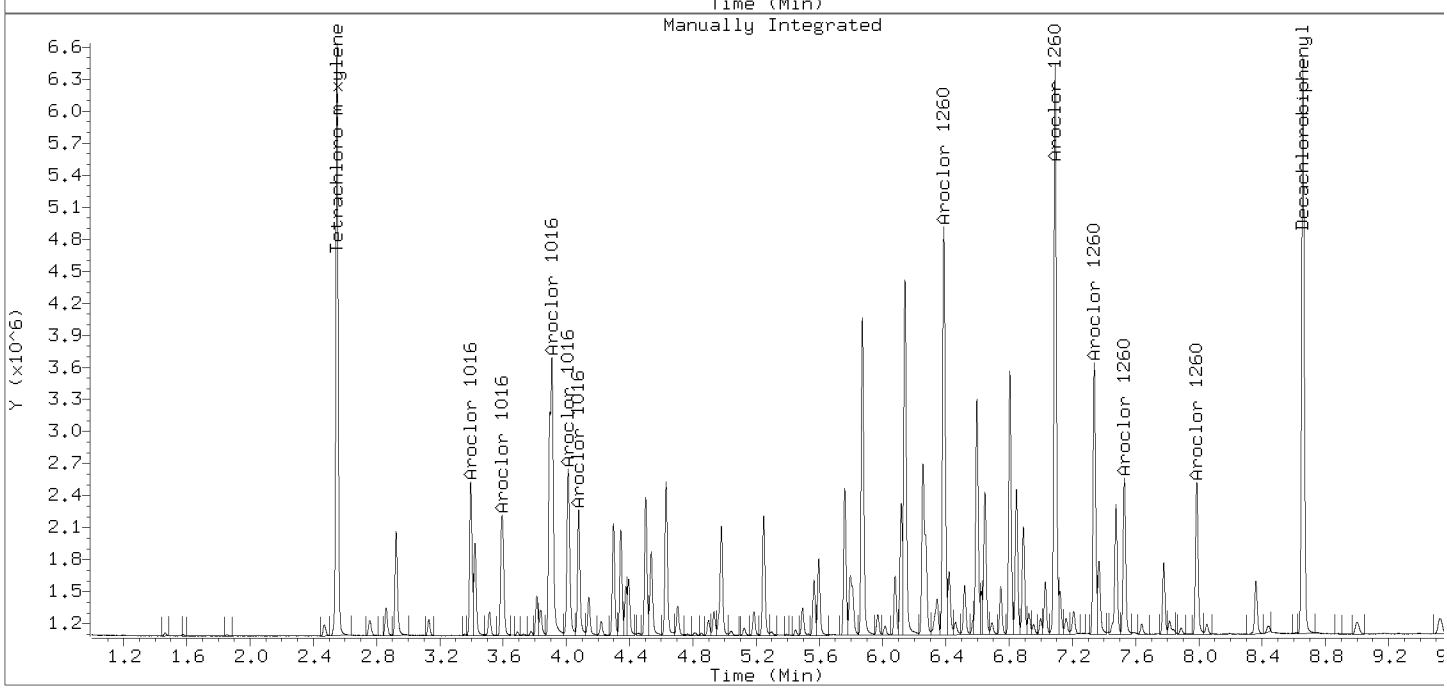
Operator: BLM

Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050318.b/050318077.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 03-MAY-2018 20:03 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1555270	1563196	BA
Aroclor 1016	1555270	1563196	BA
Aroclor 1016	1555270	1563196	BA
Aroclor 1016	1555270	1563196	BA
Aroclor 1016	1555270	1563196	BA
Aroclor 1260	4702751	4706692	BA
Aroclor 1260	4702751	4706692	BA
Aroclor 1260	4702751	4706692	BA
Aroclor 1260	4702751	4706692	BA
Aroclor 1260	4702751	4706692	BA
Tetrachloro-m-xylene	5601001	5601001	
Decachlorobiphenyl	6250490	6250490	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 07-MAY-2018 14:06
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.205	18025	20517	1.138	0.03		
1.464	36312	35261	0.971	0.07		
1.576	16067	14067	0.876	0.03		
1.728	15032	14638	0.974	0.03		
2.469	18788	16681	0.888	0.04		
2.550	5622579	5719318	1.017	12.35	$ 2 Tetrachloro-m-xylene	
2.756	26052	22703	0.871	0.05		
2.860	104221	98498	0.945	0.22		
2.924	176687	159410	0.902	0.38		
3.129	57678	52480	0.910	0.12		
3.395	692892	674716	0.974	1.52		
3.422	307666	281559	0.915	0.67		
3.514	63248	57084	0.903	0.13		
3.595	580474	414667	0.714	1.27		
3.692	35734	36146	1.012	0.07		
3.813	125217	122125	0.975	0.27		
3.838	61641	54378	0.882	0.13		
3.896	1059325	1173145	1.107	2.32		
3.908	1327438	1232841	0.929	2.91		
4.013	904026	684919	0.758	1.98		
4.078	594667	529628	0.891	1.30		
4.143	352876	318434	0.902	0.77		
4.221	143482	129910	0.905	0.31		
4.298	1492299	1381489	0.926	3.27		
4.344	1204115	1133497	0.941	2.64	6 Aroclor 1248	BA
4.377	502322	507570	1.010	1.10		
4.393	544613	507839	0.932	1.19		
4.502	1805183	1672925	0.927	3.96		
4.537	942770	784946	0.833	2.07		
4.631	2089783	1866851	0.893	4.59	6 Aroclor 1248	BA
4.674	41892	38607	0.922	0.09		
4.703	489873	438253	0.895	1.07		
4.766	31194	22946	0.736	0.06		
4.811	62683	49516	0.790	0.13		
4.853	108814	104474	0.960	0.23		
4.898	1042969	986180	0.946	2.29	6 Aroclor 1248	BA
4.933	2051926	1884186	0.918	4.50		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.964	2679262	1711604	0.639	5.88	6 Aroclor 1248
5.042	334191	254296	0.761	0.73	
5.124	1887015	1693526	0.897	4.14	6 Aroclor 1248
5.185	685799	544141	0.793	1.50	
5.246	808615	715140	0.884	1.77	
5.298	596144	524839	0.880	1.31	
5.372	43247	38254	0.885	0.09	
5.395	126737	106546	0.841	0.27	
5.449	512402	442642	0.864	1.12	
5.493	846309	725437	0.857	1.85	
5.532	514853	468494	0.910	1.13	
5.597	1429703	1158625	0.810	3.14	
5.692	408488	353871	0.866	0.89	
5.763	56956	46267	0.812	0.12	
5.802	84352	66989	0.794	0.18	
5.827	106505	90735	0.852	0.23	
5.850	29547	41235	1.396	0.06	
5.878	987600	772849	0.783	2.17	
5.975	132587	80158	0.605	0.29	
6.080	29922	30496	1.019	0.06	
6.112	822023	700249	0.852	1.80	
6.141	181003	146199	0.808	0.39	
6.256	91655	57230	0.624	0.20	
6.312	57439	29963	0.522	0.12	
6.387	250098	212370	0.849	0.54	
6.419	47176	39050	0.828	0.10	
6.460	38574	30873	0.800	0.08	
6.514	30233	18905	0.625	0.06	
6.596	40365	40280	0.998	0.08	
6.625	95728	68373	0.714	0.21	
6.690	16529	10503	0.635	0.03	
6.805	41162	36537	0.888	0.09	
6.844	19377	18710	0.966	0.04	
6.890	45332	40333	0.890	0.09	
6.929	21948	14191	0.647	0.04	
7.090	79315	69406	0.875	0.17	
7.201	37960	20070	0.529	0.08	
7.337	25828	25431	0.985	0.05	
7.475	32860	29096	0.885	0.07	
7.529	41060	35162	0.856	0.09	
7.774	14872	12813	0.862	0.03	
7.813	22217	21943	0.988	0.04	
7.838	38173	25711	0.674	0.08	
7.889	22059	14037	0.636	0.04	
7.987	38710	26977	0.697	0.08	
8.041	13914	7485	0.538	0.03	
8.361	63553	54937	0.864	0.13	
8.438	44388	30339	0.683	0.09	
8.656	5989234	5214841	0.871	13.66	$ 12 Decachlorobiphenyl
8.997	78055	44570	0.571	0.17	
9.170	10757	9756	0.907	0.02	
9.525	98719	59680	0.605	0.21	
	45501116	40274568		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718004.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 07-MAY-2018 14:06
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.550	2.549	0.001	5622579	0.05000	0.047			
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1204114	0.50000	0.50	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	2089783	0.50000	0.49	0.00- 20.00	173.55	BA
4.897	4.898	-0.001	1042968	0.50000	0.51	0.00- 20.00	86.62	BA
4.964	4.963	0.001	2679262	0.50000	0.49	0.00- 20.00	222.51	BA
5.123	5.123	0.000	1887014	0.50000	0.50	0.00- 20.00	156.71	BA
Average of Peak Amounts =					0.49800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	5989233	0.05000	0.045			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

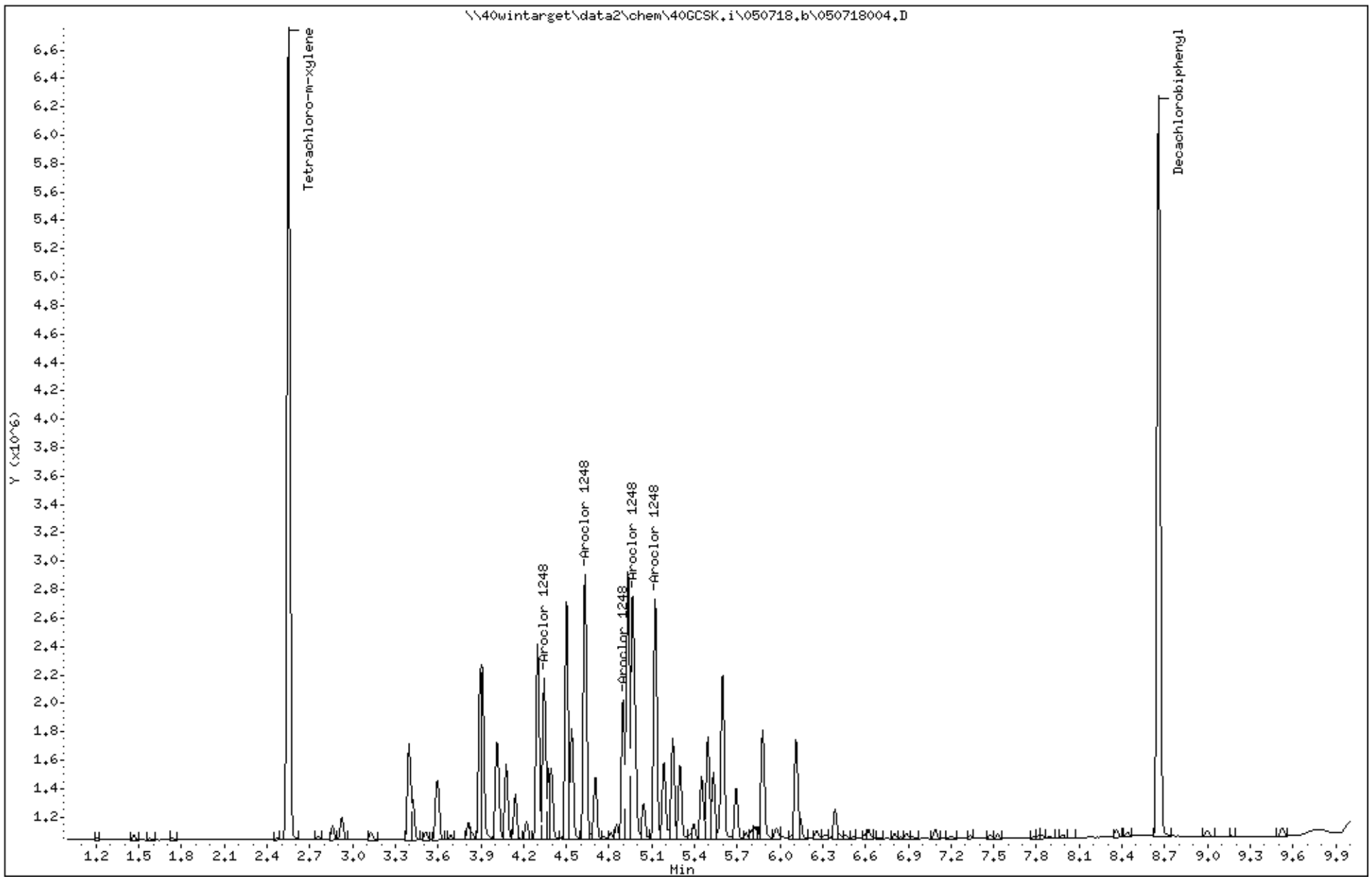
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718004.D
Date : 07-MAY-2018 14:06
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

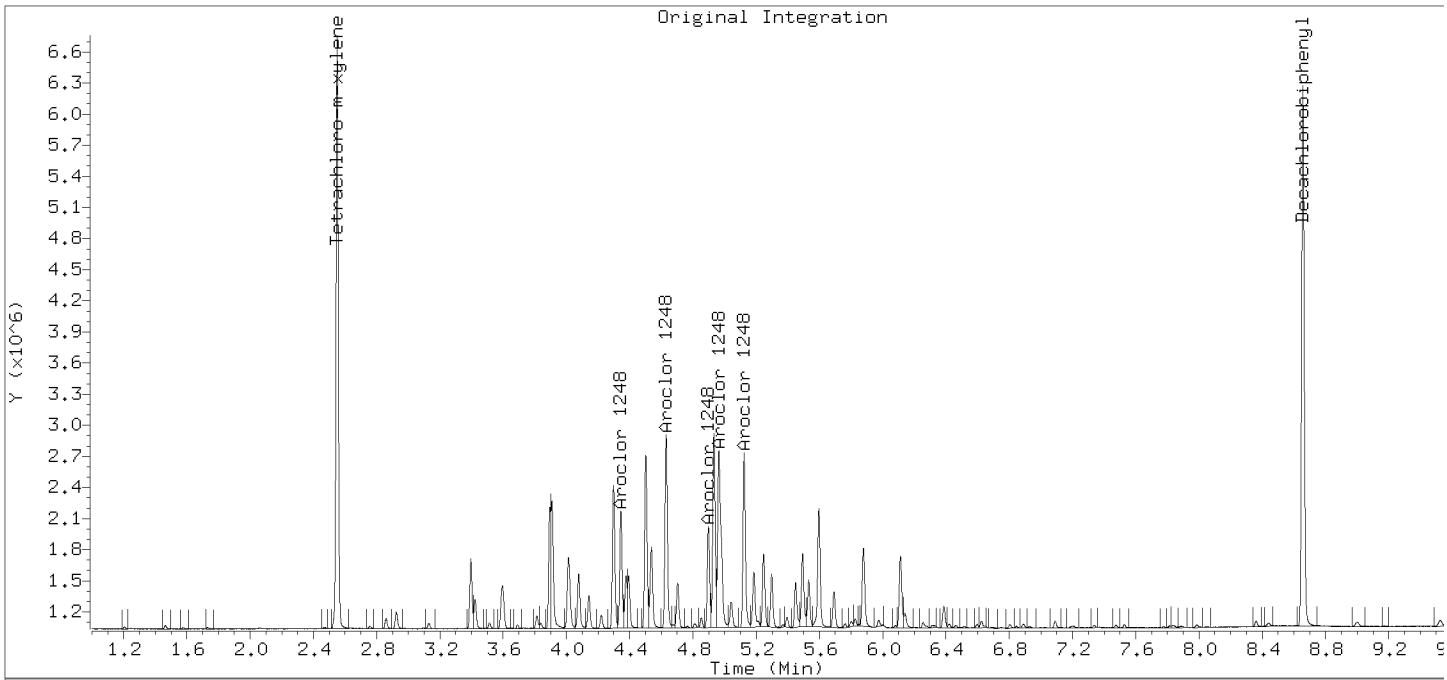
Instrument: 40GCSK.i

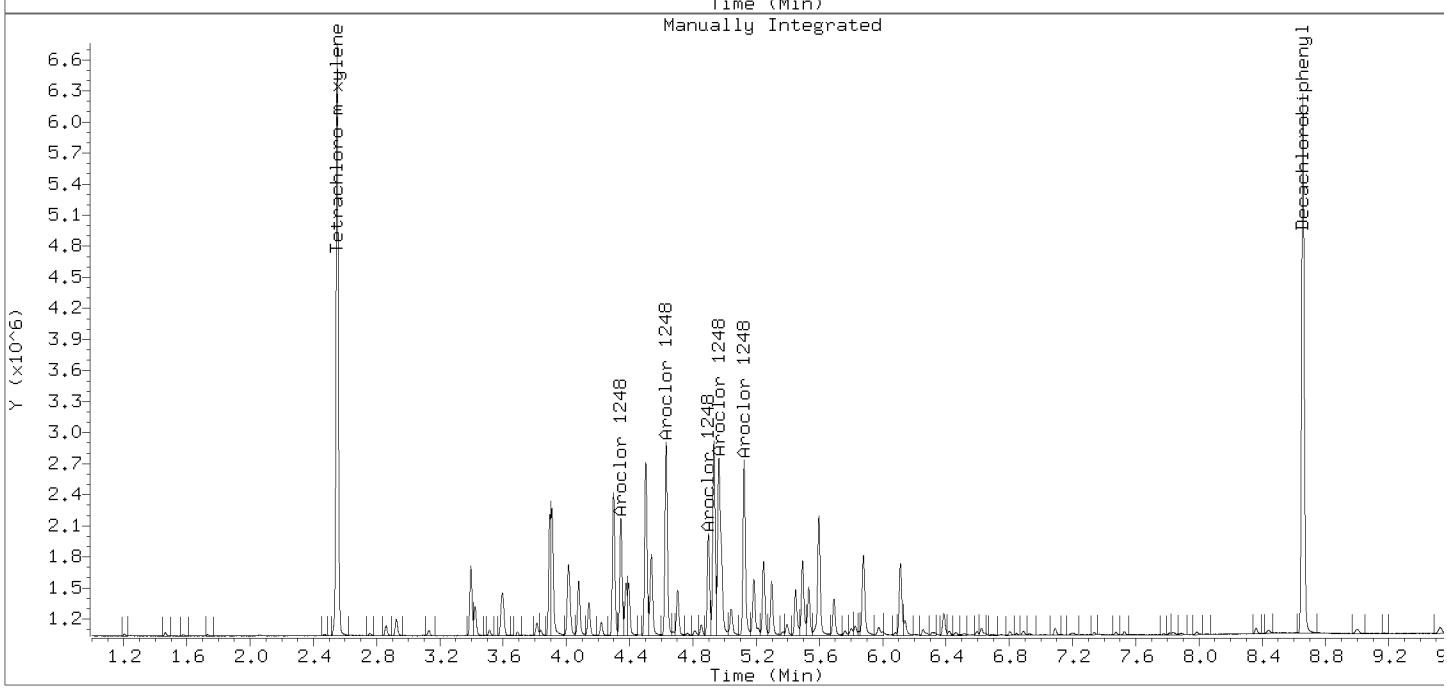
Operator: BLM

Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718004.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 07-MAY-2018 14:06 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1190249	1204114	BA
Aroclor 1248	1190249	1204114	BA
Aroclor 1248	1190249	1204114	BA
Aroclor 1248	1190249	1204114	BA
Aroclor 1248	1190249	1204114	BA
Tetrachloro-m-xylene	5622579	5622579	
Decachlorobiphenyl	5989233	5989233	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 07-MAY-2018 17:17
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17762,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.202	29937	26047	0.870	0.05		
1.464	36798	33511	0.911	0.06		
1.577	15692	15383	0.980	0.02		
1.732	20532	18907	0.921	0.03		
2.550	5730654	5751322	1.004	10.24	$ 2 Tetrachloro-m-xylene	
2.859	83797	80307	0.958	0.14		
2.922	21299	16825	0.790	0.03		
3.096	13080	10313	0.788	0.02		
3.128	17666	16082	0.910	0.03		
3.396	33376	30644	0.918	0.05		
3.423	19991	17357	0.868	0.03		
3.594	27151	23074	0.850	0.04		
3.692	36871	35072	0.951	0.06		
3.899	58302	39530	0.678	0.10		
4.018	54364	41413	0.762	0.09		
4.074	32381	21633	0.668	0.05		
4.141	26154	20623	0.789	0.04		
4.298	1242889	1166469	0.939	2.22		
4.345	335913	321360	0.957	0.60		
4.377	53270	42676	0.801	0.09		
4.502	761099	715606	0.940	1.36		
4.539	75900	68716	0.905	0.13		
4.631	342092	309108	0.904	0.61		
4.678	17228	16244	0.943	0.03		
4.702	59208	54586	0.922	0.10		
4.764	13054	14094	1.080	0.02		
4.855	17027	16488	0.968	0.03		
4.898	282968	275140	0.972	0.50		
4.933	1154411	1046895	0.907	2.06		
4.980	2480419	1947142	0.785	4.43		
5.043	410146	361989	0.883	0.73		
5.124	243356	211655	0.870	0.43		
5.186	1449877	1277704	0.881	2.59		
5.247	2703634	2450602	0.906	4.83	7 Aroclor 1254	BA
5.297	1268011	1098076	0.866	2.26		
5.369	66116	64462	0.975	0.11		
5.396	225050	205317	0.912	0.40		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.448	1079971	979924	0.907	1.93	
5.493	2257895	1990254	0.881	4.03	7 Aroclor 1254
5.532	778537	709939	0.912	1.39	
5.565	276664	264575	0.956	0.49	
5.596	4068146	3725328	0.916	7.27	7 Aroclor 1254
5.662	37644	39914	1.060	0.06	
5.691	580599	515742	0.888	1.03	
5.761	369782	341425	0.923	0.66	
5.798	558583	357079	0.639	0.99	
5.827	346600	288908	0.834	0.61	
5.876	4223765	3224063	0.763	7.55	
5.971	373034	287020	0.769	0.66	
6.015	204384	129736	0.635	0.36	
6.079	343081	319462	0.931	0.61	
6.113	2646352	2159505	0.816	4.73	7 Aroclor 1254
6.140	1932981	1615879	0.836	3.45	
6.255	768694	628246	0.817	1.37	
6.313	309295	316220	1.022	0.55	
6.328	345653	296165	0.857	0.61	
6.385	3523477	3046861	0.865	6.30	7 Aroclor 1254
6.420	641513	567991	0.885	1.14	
6.461	371932	294040	0.791	0.66	
6.522	106102	55482	0.523	0.18	
6.568	18725	21011	1.122	0.03	
6.596	134491	134311	0.999	0.24	
6.624	1206293	946108	0.784	2.15	
6.691	178569	144757	0.811	0.31	
6.745	37479	28258	0.754	0.06	
6.805	232025	199428	0.860	0.41	
6.846	139084	127014	0.913	0.24	
6.888	683641	608902	0.891	1.22	
6.928	197956	128487	0.649	0.35	
7.028	68644	54894	0.800	0.12	
7.090	474009	408077	0.861	0.84	
7.162	19254	17566	0.912	0.03	
7.337	381908	354572	0.928	0.68	
7.367	80745	72800	0.902	0.14	
7.472	18692	14903	0.797	0.03	
7.528	30296	23854	0.787	0.05	
7.638	22285	18254	0.819	0.03	
7.777	12924	13786	1.067	0.02	
7.816	14988	16157	1.078	0.02	
7.836	12619	11890	0.942	0.02	
7.988	29162	21043	0.722	0.05	
8.361	53830	49522	0.920	0.09	
8.437	26041	19323	0.742	0.04	
8.657	6141763	5421837	0.883	11.43	$ 12 Decachlorobiphenyl
9.004	48036	30646	0.638	0.08	
9.526	48731	34589	0.710	0.08	
	55916586	48938119		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718016.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 07-MAY-2018 17:17
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17762,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	5730653	0.05000	0.048			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	2703633	0.50000	0.48	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	2257895	0.50000	0.48	0.00- 20.00	83.51	BA
5.595	5.596	-0.001	4068145	0.50000	0.48	0.00- 20.00	150.47	BA
6.113	6.113	0.000	2646351	0.50000	0.50	0.00- 20.00	97.88	BA
6.385	6.387	-0.002	3523477	0.50000	0.48	0.00- 20.00	130.32	BA
Average of Peak Amounts =					0.48400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	6141762	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\40GCSK.i\050718.b\050718016.D

Date : 07-MAY-2018 17:17

Client ID: 1254-CCV

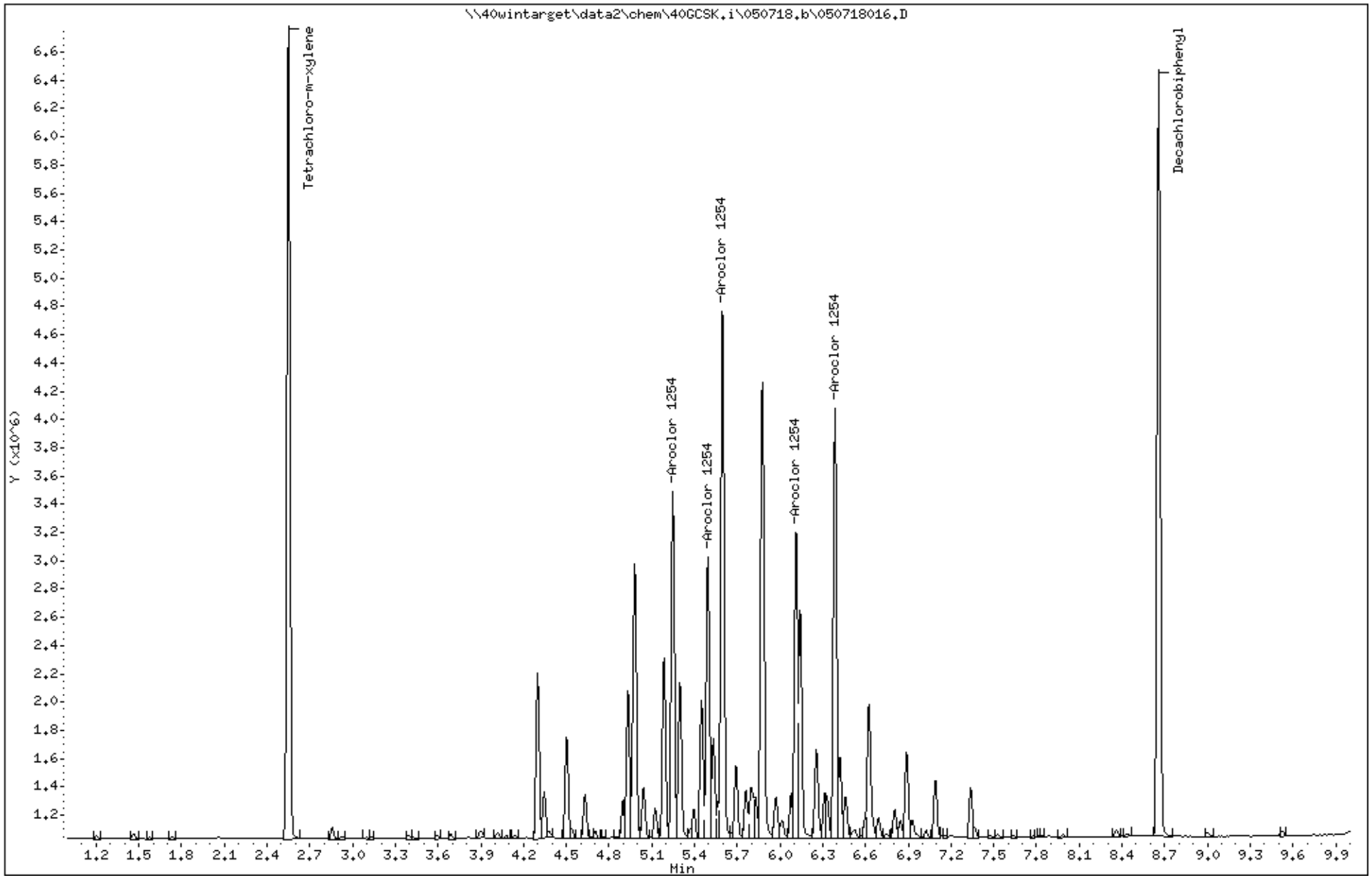
Instrument: 40GCSK.i

Sample Info: 1254-CCV, 185554:1

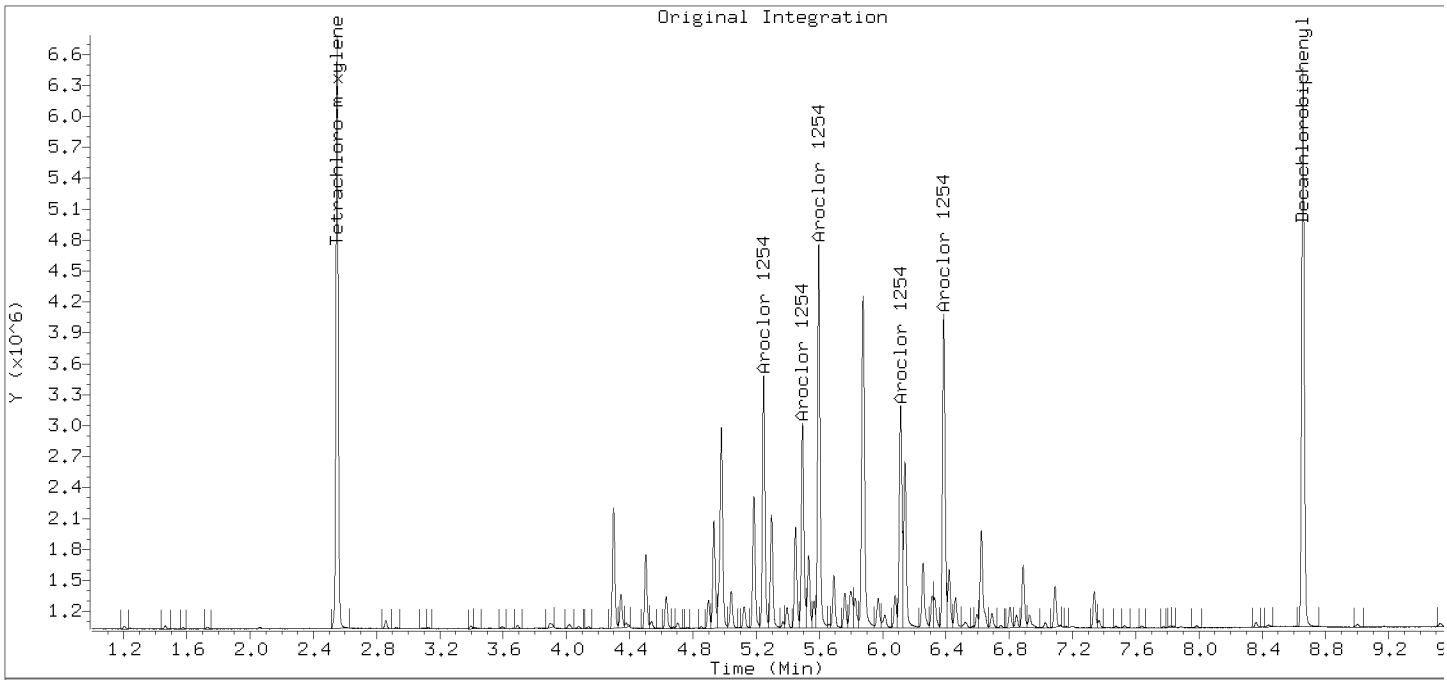
Operator: BLM

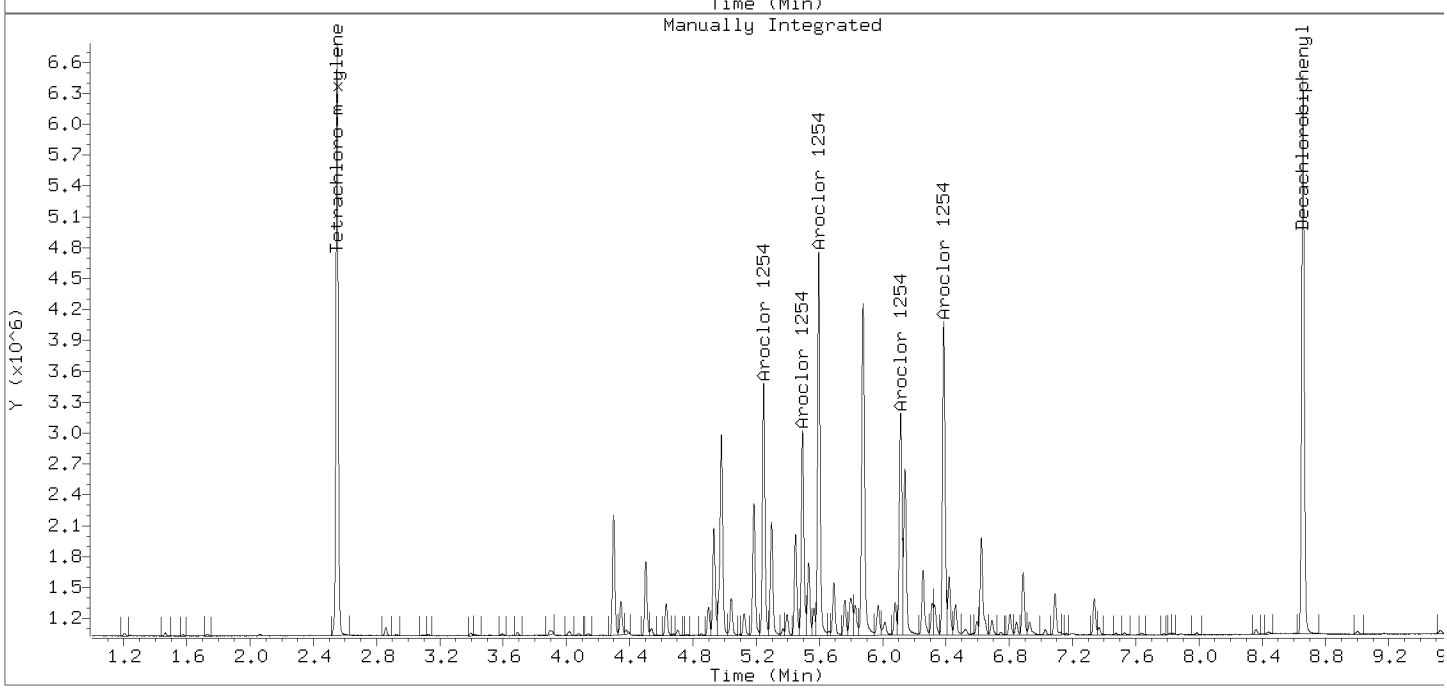
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718016.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 07-MAY-2018 17:17 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2692691	2703633	BA
Aroclor 1254	2692691	2703633	BA
Aroclor 1254	2692691	2703633	BA
Aroclor 1254	2692691	2703633	BA
Aroclor 1254	2692691	2703633	BA
Tetrachloro-m-xylene	5730653	5730653	
Decachlorobiphenyl	6141762	6141762	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718028.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 07-MAY-2018 20:27
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.204	13700	13551	0.989	0.01		
1.463	36721	33858	0.922	0.04		
1.577	16929	14267	0.843	0.01		
1.729	18860	15076	0.799	0.02		
1.852	17097	12649	0.740	0.01		
2.469	126899	100444	0.792	0.14		
2.550	5511716	5368986	0.974	6.43	$ 2 Tetrachloro-m-xylene	
2.757	183567	148035	0.806	0.21		
2.860	277091	256721	0.926	0.32		
2.923	1047810	959282	0.916	1.22		
3.129	146248	138443	0.947	0.17		
3.355	21538	17791	0.826	0.02		
3.396	1450100	1347889	0.930	1.69	5 Aroclor 1016	BA
3.422	867270	788391	0.909	1.01		
3.513	232956	206726	0.887	0.27		
3.594	1458296	1058346	0.726	1.70	5 Aroclor 1016	BA
3.690	42379	37447	0.884	0.04		
3.732	24250	15640	0.645	0.02		
3.776	40475	38024	0.939	0.04		
3.813	364907	353563	0.969	0.42		
3.837	254804	232306	0.912	0.29		
3.908	4325727	2504409	0.579	5.05	5 Aroclor 1016	BA
4.011	1841720	1524820	0.828	2.15	5 Aroclor 1016	BA
4.077	1234282	1118972	0.907	1.44	5 Aroclor 1016	BA
4.142	373273	321733	0.862	0.43		
4.220	145629	125161	0.859	0.17		
4.297	1070568	1021262	0.954	1.25		
4.344	965191	912381	0.945	1.12		
4.376	401667	415953	1.036	0.46		
4.394	512393	463563	0.905	0.59		
4.456	34636	24180	0.698	0.04		
4.502	1320592	1222980	0.926	1.54		
4.536	1023287	774232	0.757	1.19		
4.631	1692971	1504406	0.889	1.97		
4.704	382306	348316	0.911	0.44		
4.762	24904	19239	0.773	0.02		
4.811	59216	51509	0.870	0.06		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.852	57611	50214	0.872	0.06	
4.898	318013	295574	0.929	0.37	
4.932	494794	471625	0.953	0.57	
4.980	1554702	1148344	0.739	1.81	
5.043	101403	81506	0.804	0.11	
5.122	92315	78533	0.851	0.10	
5.186	323604	293870	0.908	0.37	
5.247	1300566	1201529	0.924	1.51	
5.298	65927	50247	0.762	0.07	
5.392	16181	14180	0.876	0.01	
5.450	94435	80016	0.847	0.11	
5.493	353051	324288	0.919	0.41	
5.565	506418	494087	0.976	0.59	
5.595	906232	834044	0.920	1.05	
5.691	23794	15034	0.632	0.02	
5.760	1320340	1246802	0.944	1.54	
5.796	938868	514967	0.548	1.09	
5.871	3276516	2926664	0.893	3.82	
5.969	218720	199645	0.913	0.25	
6.016	106915	91089	0.852	0.12	
6.078	564684	545164	0.965	0.65	
6.116	1248894	1231318	0.986	1.45	
6.140	3750180	3251629	0.867	4.37	
6.254	2287499	1518080	0.664	2.67	
6.344	531455	306181	0.576	0.62	
6.386	4594760	3943508	0.858	5.36	8 Aroclor 1260
6.420	645019	583826	0.905	0.75	
6.461	158213	132840	0.840	0.18	
6.517	463445	409093	0.883	0.54	
6.571	103441	121553	1.175	0.12	
6.595	2196293	1989834	0.906	2.56	
6.623	430639	458221	1.064	0.50	
6.646	1375743	1230696	0.895	1.60	
6.690	154833	130444	0.842	0.18	
6.746	431186	414891	0.962	0.50	
6.804	2376420	2191139	0.922	2.77	
6.845	1339944	1206297	0.900	1.56	
6.888	1138692	1034113	0.908	1.32	
6.924	202083	174392	0.863	0.23	
6.954	96850	87497	0.903	0.11	
6.999	144812	140685	0.972	0.16	
7.028	482571	445223	0.923	0.56	
7.089	5362443	4924680	0.918	6.26	8 Aroclor 1260
7.121	359743	329047	0.915	0.42	
7.160	161760	137299	0.849	0.18	
7.208	224957	193157	0.859	0.26	
7.304	11479	12042	1.049	0.01	
7.337	2646137	2394376	0.905	3.09	8 Aroclor 1260
7.367	729525	625621	0.858	0.85	
7.474	1276767	1083889	0.849	1.49	
7.528	1545461	1383632	0.895	1.80	8 Aroclor 1260
7.637	119036	101525	0.853	0.13	
7.776	639543	594306	0.929	0.74	
7.811	101099	71907	0.711	0.11	
7.885	71718	54688	0.763	0.08	
7.985	1459542	1314629	0.901	1.70	8 Aroclor 1260
8.049	102098	84630	0.829	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.360	376140	336280	0.894	0.43	
8.655	6032558	5224319	0.866	7.54	$ 12 Decachlorobiphenyl
8.994	26765	16064	0.600	0.03	
9.525	31700	20956	0.661	0.03	
	85628507	74372480		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718028.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 07-MAY-2018 20:27
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.549	2.549	0.000	5511715	0.05000	0.046			
5 Aroclor 1016					CAS #: 12674-11-2			
3.395	3.395	0.000	1450100	0.50000	0.47	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1458295	0.50000	0.46	0.00- 20.00	100.57	BA
3.907	3.909	-0.002	4325727	0.50000	0.46	0.00- 20.00	298.31	BA
4.010	4.011	-0.001	1841720	0.50000	0.46	0.00- 20.00	127.01	BA
4.076	4.078	-0.002	1234282	0.50000	0.46	0.00- 20.00	85.12	BA
Average of Peak Amounts =					0.46200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.385	6.387	-0.002	4594759	0.50000	0.46	0.00- 20.00	100.00(M)	BA
7.089	7.090	-0.001	5362443	0.50000	0.46	0.00- 20.00	116.71	BA
7.337	7.338	-0.001	2646136	0.50000	0.47	0.00- 20.00	57.59	BA
7.527	7.529	-0.002	1545461	0.50000	0.45	0.00- 20.00	33.64	BA
7.984	7.987	-0.003	1459541	0.50000	0.46	0.00- 20.00	31.77	BA
Average of Peak Amounts =					0.46000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.655	8.657	-0.002	6032557	0.05000	0.045			

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\40GCSK.i\050718.b\050718028.D

Date : 07-MAY-2018 20:27

Client ID: 1660-CCV

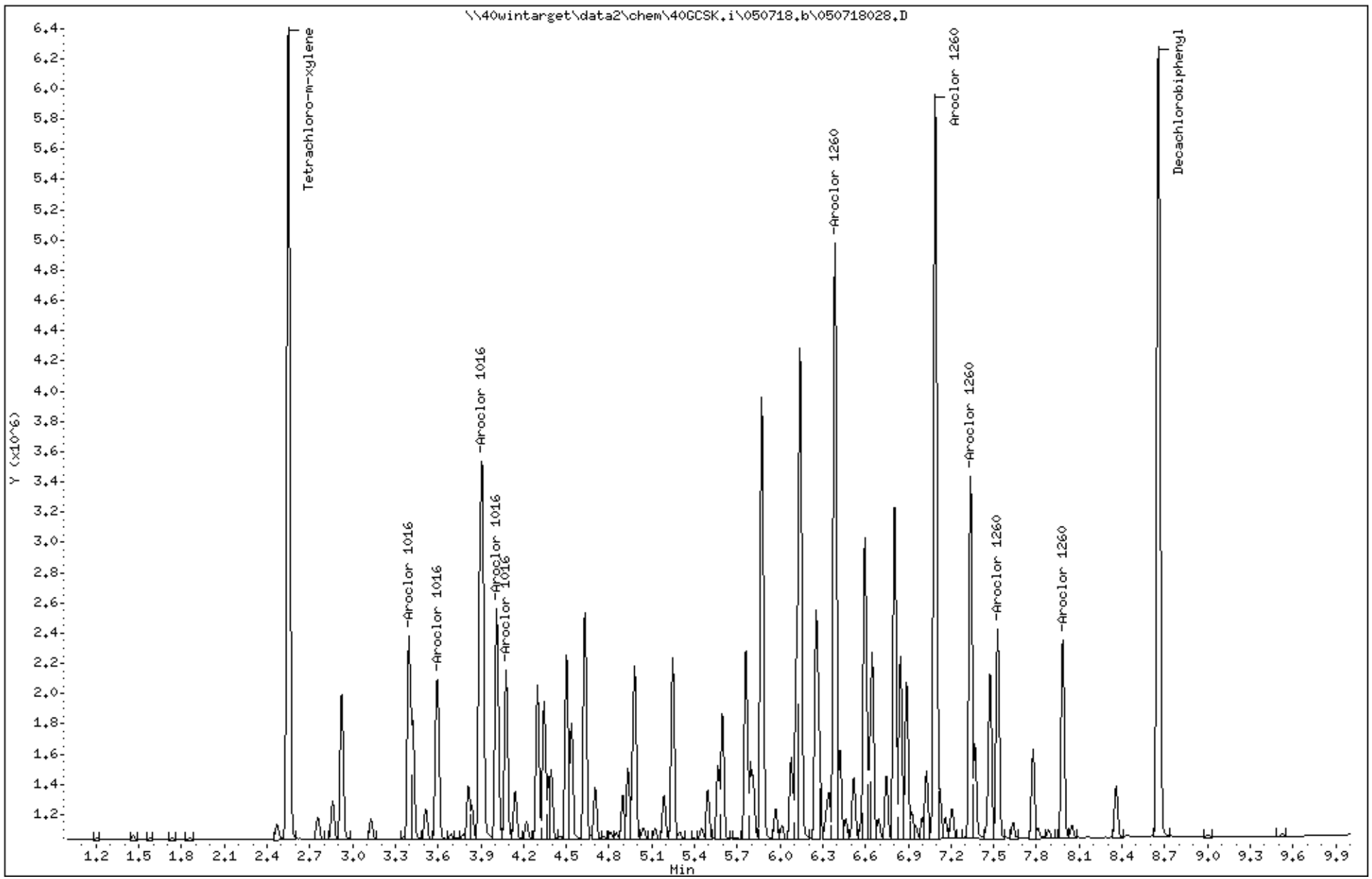
Instrument: 40GCSK.i

Sample Info: 1660-CCV, 185559:1

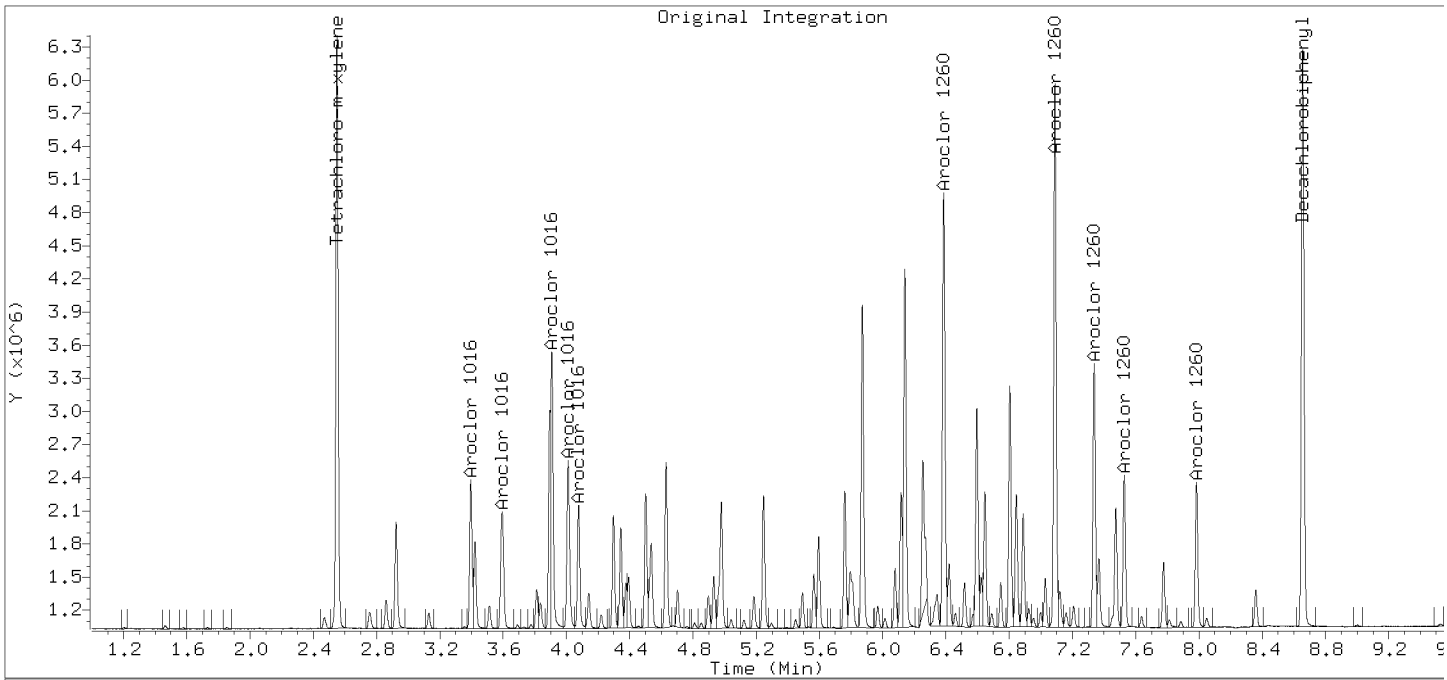
Operator: BLM

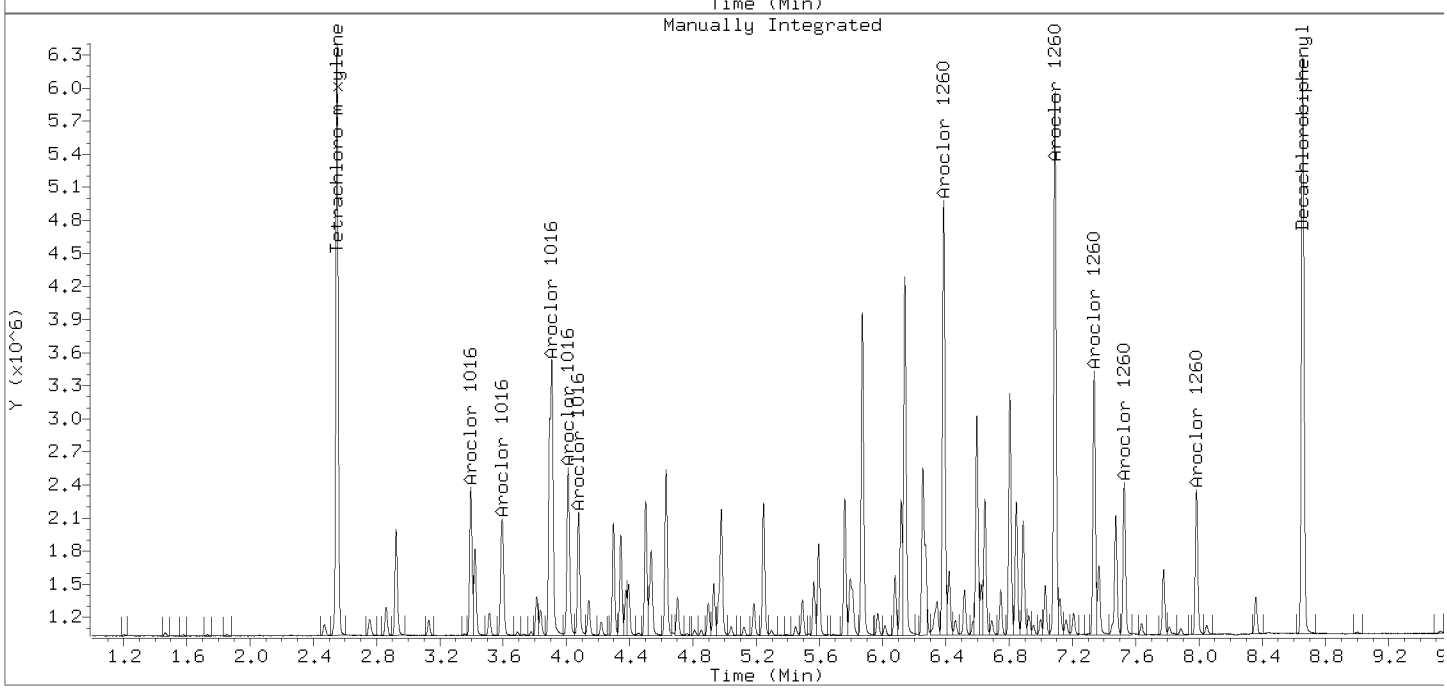
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718028.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 07-MAY-2018 20:27 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1446201	1450100	BA
Aroclor 1016	1446201	1450100	BA
Aroclor 1016	1446201	1450100	BA
Aroclor 1016	1446201	1450100	BA
Aroclor 1016	1446201	1450100	BA
Aroclor 1260	4533239	4594759	BA
Aroclor 1260	4533239	4594759	BA
Aroclor 1260	4533239	4594759	BA
Aroclor 1260	4533239	4594759	BA
Aroclor 1260	4533239	4594759	BA
Tetrachloro-m-xylene	5511715	5511715	
Decachlorobiphenyl	6032557	6032557	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718040.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 07-MAY-2018 23:37
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 40 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
1.204	33137	28086	0.848	0.19			
1.463	34177	34226	1.001	0.20			
1.577	18789	15155	0.807	0.11			
1.730	19316	21704	1.124	0.11			
1.854	463868	444877	0.959	2.72		1 Aroclor 1221	BA
2.060	26110	19070	0.730	0.15			
2.257	156640	134731	0.860	0.92			
2.471	244716	183960	0.752	1.43		1 Aroclor 1221	BA
2.550	5477215	5488095	1.002	32.20	$	2 Tetrachloro-m-xylene	BA
2.758	652451	518527	0.795	3.83		1 Aroclor 1221	BA
2.861	505106	473505	0.937	2.97		1 Aroclor 1221	BA
2.924	1583135	1373779	0.868	9.30		1 Aroclor 1221	BA
3.095	16133	12828	0.795	0.09			
3.129	32125	26521	0.826	0.18			
3.358	106360	81744	0.769	0.62			
3.404	373202	192794	0.517	2.19			
3.514	34613	29439	0.851	0.20			
3.594	137990	98782	0.716	0.81			
3.690	35814	34908	0.975	0.21			
3.813	39037	36737	0.941	0.22			
3.837	47623	34742	0.730	0.28			
3.909	314987	182335	0.579	1.85			
4.011	146547	122746	0.838	0.86			
4.078	92419	81396	0.881	0.54			
4.132	13358	12566	0.941	0.07			
4.297	37610	31363	0.834	0.22			
4.344	28352	29244	1.031	0.16			
4.502	39710	37444	0.943	0.23			
4.536	46224	30171	0.653	0.27			
4.632	46710	44548	0.954	0.27			
4.701	10383	10748	1.035	0.06			
4.898	20305	18670	0.919	0.11			
4.934	31996	31721	0.991	0.18			
4.962	40021	32413	0.810	0.23			
5.122	32215	28917	0.898	0.18			
5.248	10717	9331	0.871	0.06			
5.595	15396	12539	0.814	0.09			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.277	17342	14464	0.834	0.10	
7.815	22145	15429	0.697	0.13	
7.885	13062	11263	0.862	0.07	
8.361	50369	45077	0.895	0.29	
8.441	14071	12318	0.875	0.08	
8.656	5883715	5106405	0.868	34.79	$ 12 Decachlorobiphenyl
8.778	12887	6610	0.513	0.07	
9.000	28388	19242	0.678	0.16	
	17006484	15231170		100.000	

Total unknown % area = 13

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718040.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 07-MAY-2018 23:37
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 40 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				
2.549	2.549	0.000	5477215	0.05000	0.045			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.853	1.853	0.000	463868	0.50000	0.47	0.00- 20.00	100.00	(M)	BA
2.471	2.471	0.000	244715	0.50000	0.46	0.00- 20.00	52.76		BA
2.757	2.758	-0.001	652451	0.50000	0.47	0.00- 20.00	140.65		BA
2.860	2.860	0.000	505105	0.50000	0.46	0.00- 20.00	108.89		BA
2.923	2.923	0.000	1583134	0.50000	0.47	0.00- 20.00	341.29		BA
Average of Peak Amounts =					0.46600				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.656	8.657	-0.001	5883714	0.05000	0.044				

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

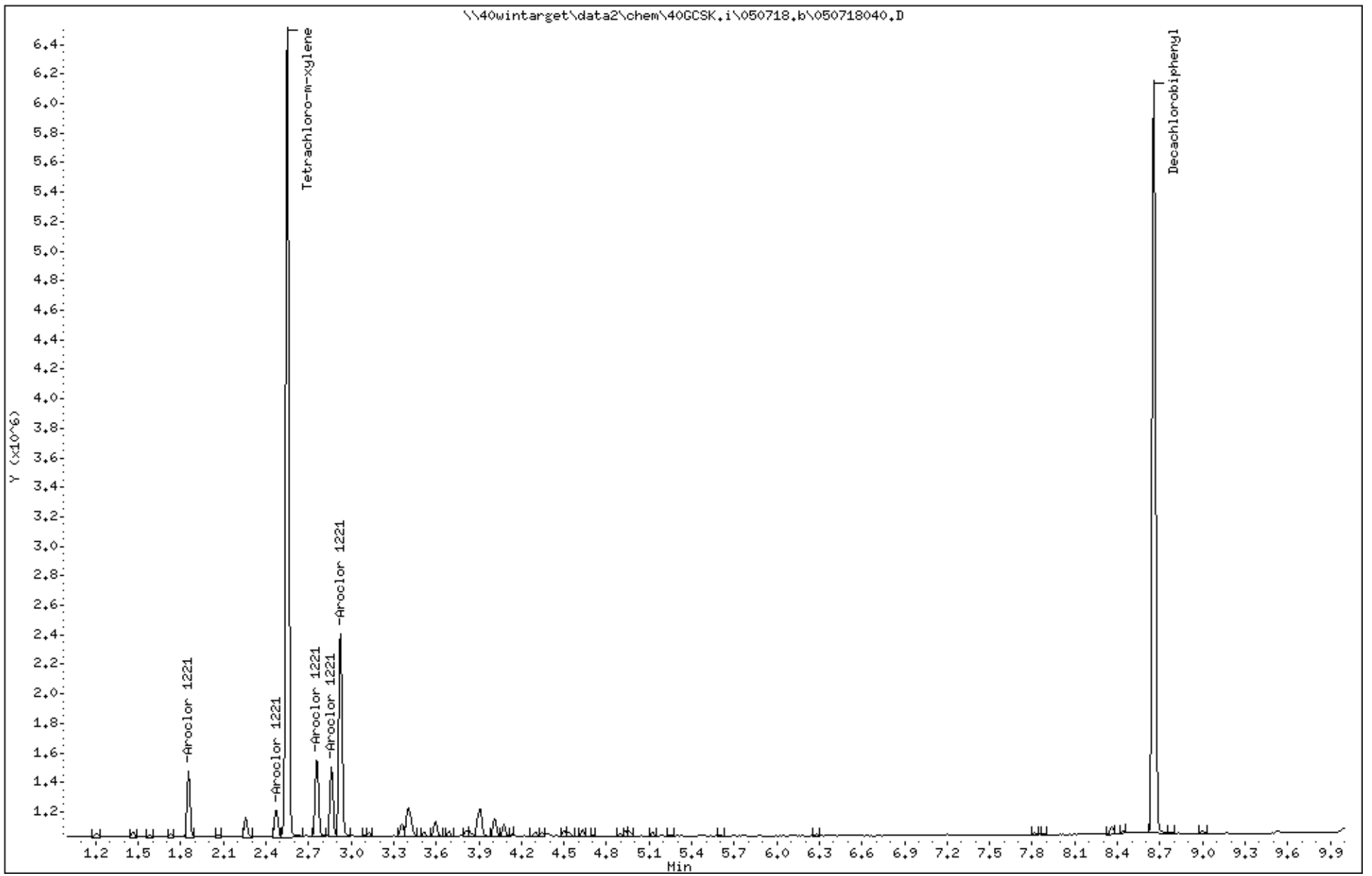
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718040.D
Date : 07-MAY-2018 23:37
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

Instrument: 40GCSK.i

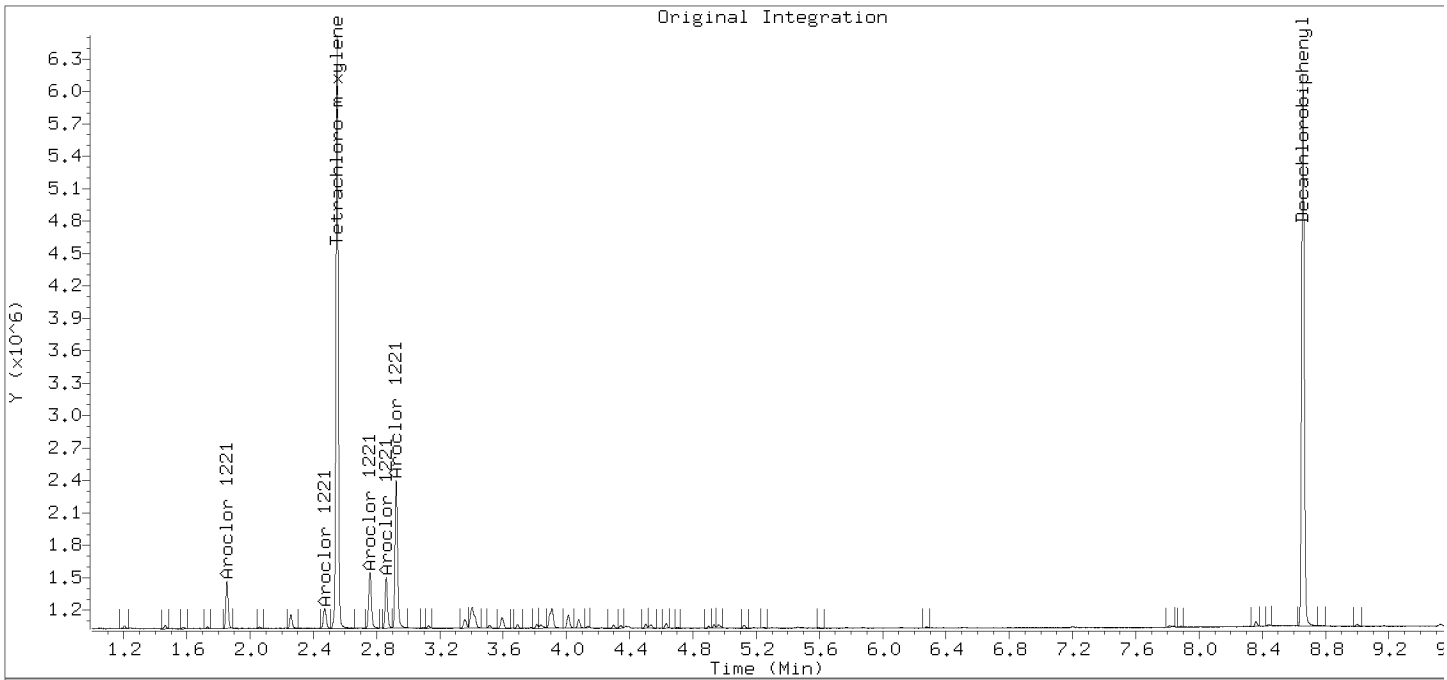
Operator: BLM

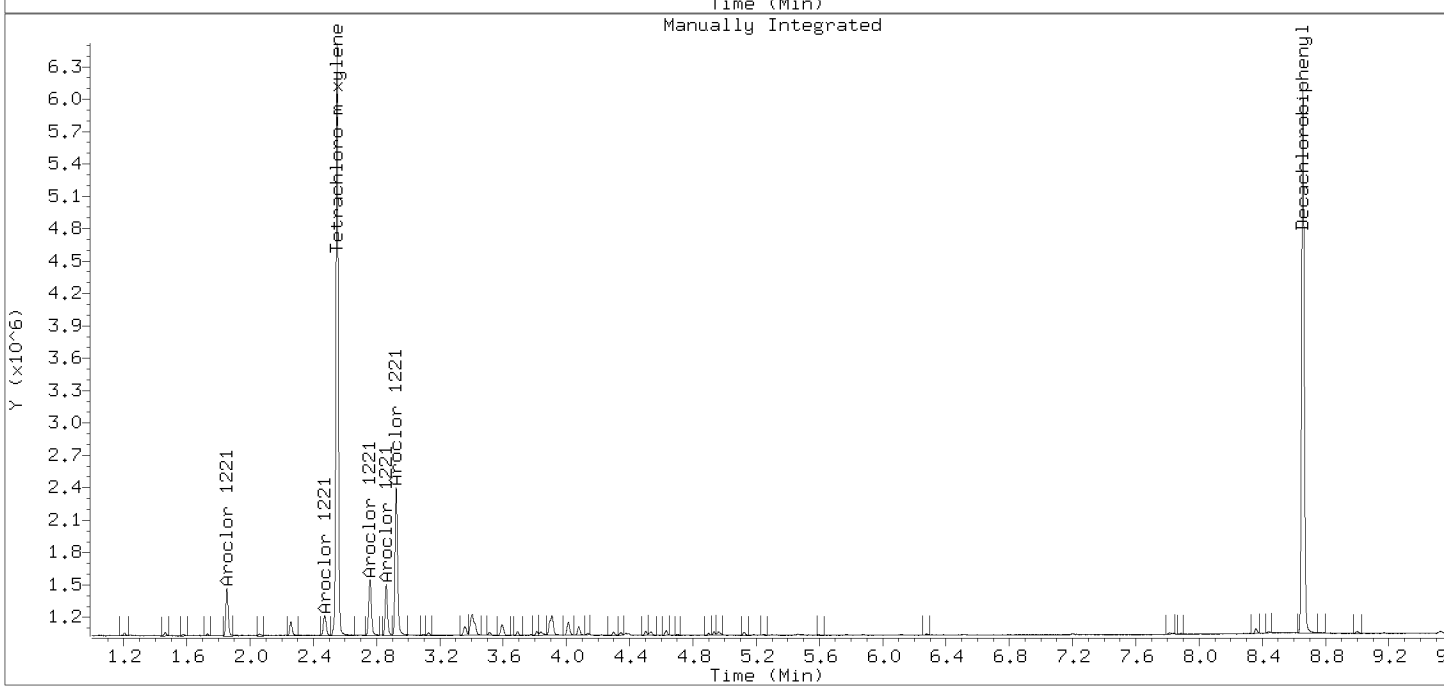
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718040.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 07-MAY-2018 23:37 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	448305	463868	BA
Aroclor 1221	448305	463868	BA
Aroclor 1221	448305	463868	BA
Aroclor 1221	448305	463868	BA
Aroclor 1221	448305	463868	BA
Tetrachloro-m-xylene	5457840	5477215	BA
Decachlorobiphenyl	5883714	5883714	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718052.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 08-MAY-2018 02:47
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17762,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 52 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
1.205	29933	28232	0.943	0.10		
1.466	35473	33281	0.938	0.12		
1.576	17699	15411	0.871	0.06		
1.734	23365	22976	0.983	0.08		
1.855	289890	272695	0.941	1.01		
2.063	20251	15706	0.776	0.07		
2.258	81551	77517	0.951	0.28		
2.472	187449	145479	0.776	0.65		
2.550	5696554	5722742	1.005	19.91	$ 2 Tetrachloro-m-xylene	
2.759	441820	342053	0.774	1.54		
2.861	402035	368936	0.918	1.40		
2.924	1330064	1176803	0.885	4.65	4 Aroclor 1232	BA
3.131	86850	76402	0.880	0.30		
3.360	71851	51668	0.719	0.25		
3.396	754496	674793	0.894	2.63		
3.423	450406	386442	0.858	1.57		
3.513	127047	107360	0.845	0.44		
3.594	693719	501762	0.723	2.42	4 Aroclor 1232	BA
3.690	43061	37586	0.873	0.15		
3.779	23807	23465	0.986	0.08		
3.813	181178	172194	0.950	0.63		
3.838	147645	119492	0.809	0.51		
3.910	2052971	1161393	0.566	7.17	4 Aroclor 1232	BA
4.012	876285	715320	0.816	3.06	4 Aroclor 1232	BA
4.078	579239	524171	0.905	2.02	4 Aroclor 1232	BA
4.142	175706	143296	0.816	0.61		
4.221	66847	53284	0.797	0.23		
4.299	416283	382441	0.919	1.45		
4.345	406850	375955	0.924	1.42		
4.377	173045	184270	1.065	0.60		
4.393	218624	197114	0.902	0.76		
4.502	561560	521659	0.929	1.96		
4.536	487210	336083	0.690	1.70		
4.631	739135	661316	0.895	2.58		
4.703	181193	157360	0.868	0.63		
4.761	19496	12071	0.619	0.06		
4.812	39213	31377	0.800	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.855	43065	36735	0.853	0.15	
4.899	332628	309099	0.929	1.16	
4.933	590725	550658	0.932	2.06	
4.965	785496	579774	0.738	2.74	
5.045	92154	65343	0.709	0.32	
5.124	645911	573924	0.889	2.25	
5.185	108526	94333	0.869	0.37	
5.247	139832	121492	0.869	0.48	
5.299	109684	87863	0.801	0.38	
5.397	26665	21476	0.805	0.09	
5.449	91564	74759	0.816	0.32	
5.494	143560	122802	0.855	0.50	
5.533	92641	80645	0.871	0.32	
5.596	248652	184027	0.740	0.86	
5.691	73063	66092	0.905	0.25	
5.764	23921	15062	0.630	0.08	
5.799	16070	15341	0.955	0.05	
5.825	20313	16911	0.833	0.07	
5.878	178544	128849	0.722	0.62	
5.972	25185	15650	0.621	0.08	
6.113	134279	113726	0.847	0.46	
6.142	33880	30048	0.887	0.11	
6.252	14341	13088	0.913	0.05	
6.275	24580	18927	0.770	0.08	
6.322	13355	6569	0.492	0.04	
6.385	45144	37039	0.820	0.15	
6.508	13263	9093	0.686	0.04	
6.597	12017	12213	1.016	0.04	
6.803	16085	14962	0.930	0.05	
6.892	12142	9528	0.785	0.04	
7.090	29695	24726	0.833	0.10	
7.196	12571	8512	0.677	0.04	
7.338	16931	15967	0.943	0.05	
7.524	10437	8864	0.849	0.03	
7.816	14996	14397	0.960	0.05	
7.887	14016	11781	0.841	0.04	
8.360	58163	48067	0.826	0.20	
8.436	14650	12740	0.870	0.05	
8.657	6113901	5189282	0.849	21.75	$ 12 Decachlorobiphenyl
9.002	30723	18053	0.588	0.10	
9.525	44558	22488	0.505	0.15	
	28597730	24631010		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718052.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 08-MAY-2018 02:47
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17762,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 52 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			
2.550	2.549	0.001	5696554	0.05000	0.047			
4 Aroclor 1232					CAS #: 1114-16-5			
2.924	2.922	0.002	1330063	0.50000	0.49	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	693718	0.50000	0.49	0.00- 20.00	52.16	BA
3.909	3.908	0.001	2052970	0.50000	0.50	0.00- 20.00	154.35	BA
4.012	4.011	0.001	876285	0.50000	0.49	0.00- 20.00	65.88	BA
4.077	4.078	-0.001	579239	0.50000	0.49	0.00- 20.00	43.55	BA
Average of Peak Amounts =					0.49200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	6113901	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\40GCSK.i\050718.b\050718052.D

Date : 08-MAY-2018 02:47

Client ID: 1232-CCV

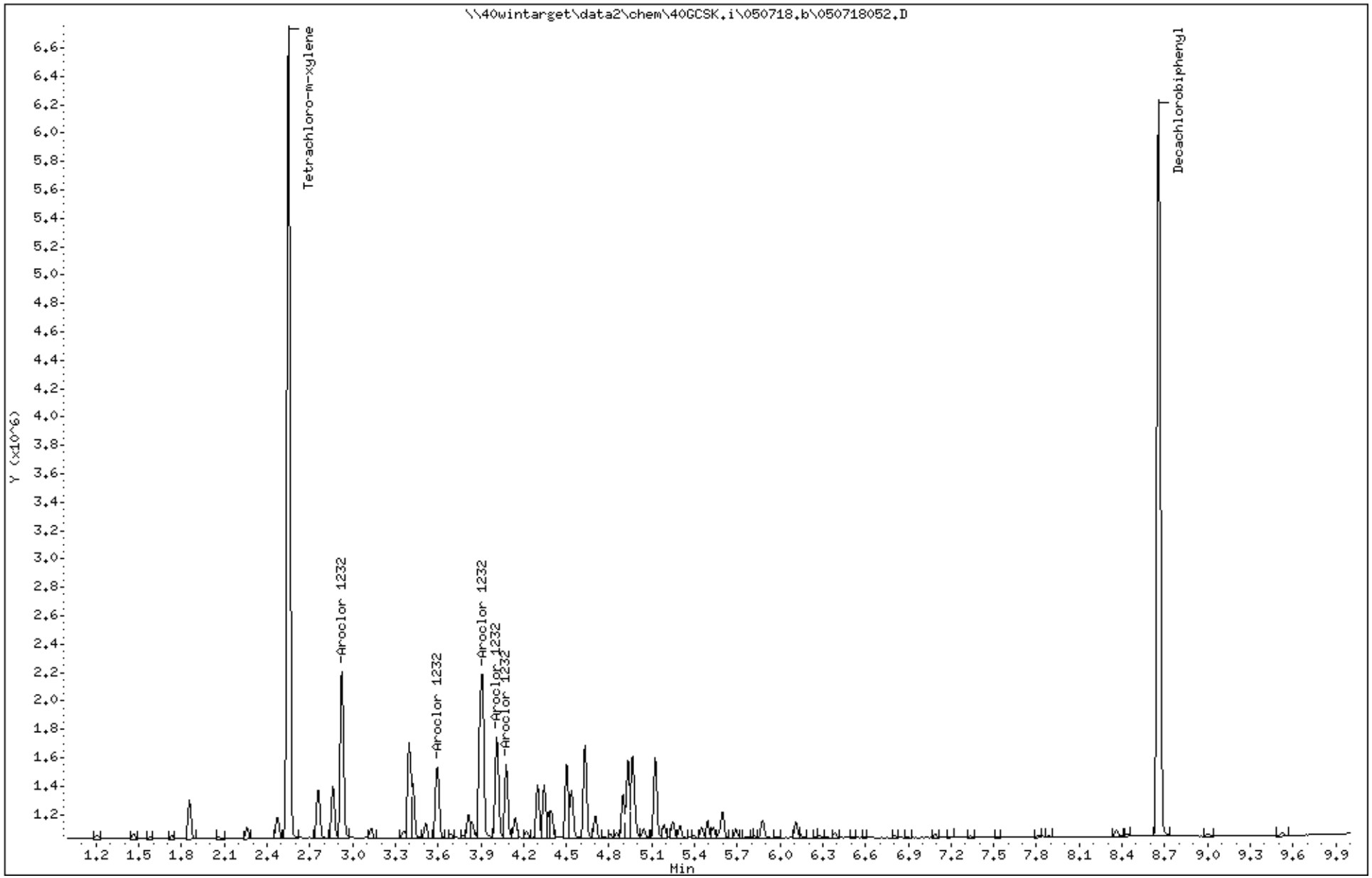
Instrument: 40GCSK.i

Sample Info: 1232-CCV, 185539:1

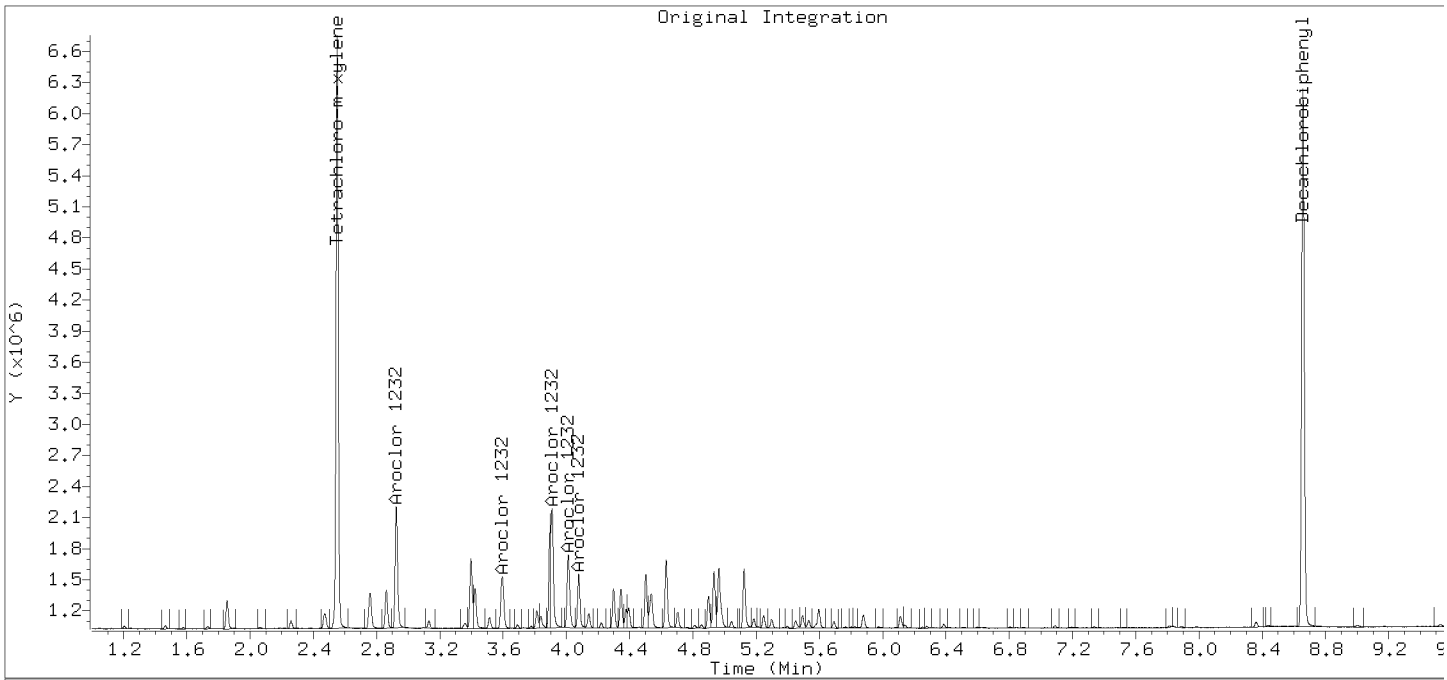
Operator: BLM

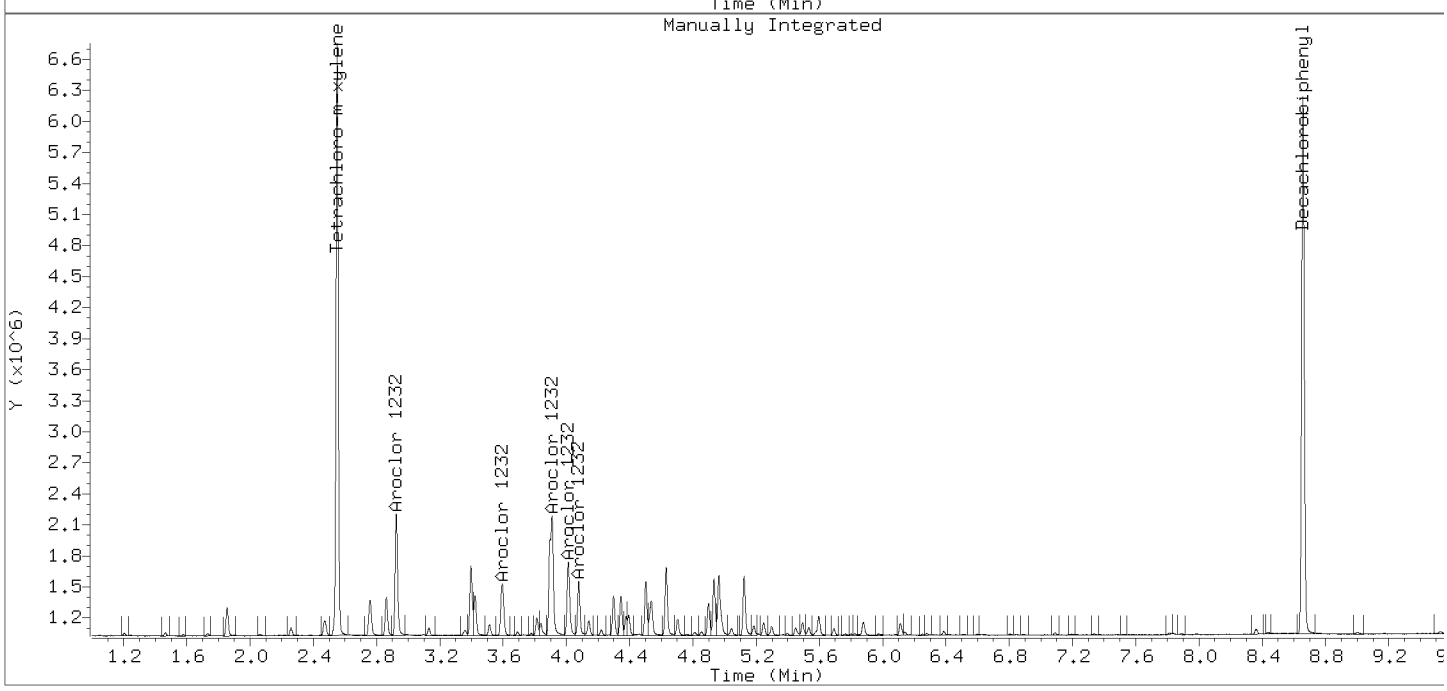
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718052.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 08-MAY-2018 02:47 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1288947	1330063	BA
Aroclor 1232	1288947	1330063	BA
Aroclor 1232	1288947	1330063	BA
Aroclor 1232	1288947	1330063	BA
Aroclor 1232	1288947	1330063	BA
Tetrachloro-m-xylene	5696554	5696554	
Decachlorobiphenyl	6113901	6113901	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718076.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 08-MAY-2018 14:04
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 76 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
1.207	56657	50255	0.887	0.12		
1.247	14005	12482	0.891	0.03		
1.467	40884	32976	0.807	0.08		
1.579	20183	14268	0.707	0.04		
1.732	16409	17056	1.039	0.03		
2.063	34760	26514	0.763	0.07		
2.469	24915	19650	0.789	0.05		
2.551	5751061	5725502	0.996	12.36	$ 2 Tetrachloro-m-xylene	
2.757	21486	20530	0.955	0.04		
2.859	113833	105526	0.927	0.24		
2.924	189885	173371	0.913	0.40		
3.093	21841	17975	0.823	0.04		
3.132	56595	51632	0.912	0.12		
3.396	709158	698730	0.985	1.52		
3.423	303554	285021	0.939	0.65		
3.514	62856	58589	0.932	0.13		
3.595	590475	433208	0.734	1.27		
3.692	35046	37038	1.057	0.07		
3.813	130294	128679	0.988	0.28		
3.838	61781	54823	0.887	0.13		
3.895	1100608	1239591	1.126	2.36		
3.908	1353945	1296551	0.958	2.91		
4.013	928162	706343	0.761	1.99		
4.078	617714	574887	0.931	1.32		
4.143	364867	330183	0.905	0.78		
4.222	142425	133917	0.940	0.30		
4.298	1533706	1428539	0.931	3.29		
4.345	1231419	1162789	0.944	2.64	6 Aroclor 1248	BA
4.377	511428	528054	1.033	1.09		
4.394	536004	520846	0.972	1.15		
4.502	1856241	1750715	0.943	3.99		
4.538	950202	806506	0.849	2.04		
4.631	2142917	1969566	0.919	4.60	6 Aroclor 1248	BA
4.675	30644	32873	1.073	0.06		
4.704	488997	460667	0.942	1.05		
4.764	25103	20319	0.809	0.05		
4.812	61103	48104	0.787	0.13		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.854	111732	105300	0.942	0.24	
4.898	1100290	1050495	0.955	2.36	6 Aroclor 1248
4.933	2133965	1993487	0.934	4.58	
4.964	2750728	1819360	0.661	5.91	6 Aroclor 1248
5.043	308858	258458	0.837	0.66	
5.124	1962227	1788981	0.912	4.22	6 Aroclor 1248
5.185	611286	553848	0.906	1.31	
5.213	66521	71242	1.071	0.14	
5.247	814919	754906	0.926	1.75	
5.298	595136	531074	0.892	1.28	
5.370	38040	36256	0.953	0.08	
5.396	122522	106164	0.866	0.26	
5.450	530110	456954	0.862	1.14	
5.494	862368	762949	0.885	1.85	
5.533	526591	476723	0.905	1.13	
5.597	1440106	1215572	0.844	3.09	
5.691	402004	377320	0.939	0.86	
5.763	56021	44966	0.803	0.12	
5.801	79396	66580	0.839	0.17	
5.826	108537	92840	0.855	0.23	
5.848	34192	40510	1.185	0.07	
5.878	1012889	870576	0.859	2.17	
5.975	133667	84738	0.634	0.28	
6.081	32392	29423	0.908	0.06	
6.111	873931	784769	0.898	1.87	
6.140	168424	142643	0.847	0.36	
6.257	86172	57980	0.673	0.18	
6.313	52045	30594	0.588	0.11	
6.388	260189	224606	0.863	0.55	
6.419	45003	41679	0.926	0.09	
6.460	38737	32188	0.831	0.08	
6.513	28399	20674	0.728	0.06	
6.598	43294	41531	0.959	0.09	
6.626	99541	75054	0.754	0.21	
6.692	14353	12911	0.900	0.03	
6.804	42085	37486	0.891	0.09	
6.846	22186	20485	0.923	0.04	
6.889	50681	44472	0.877	0.10	
6.927	22222	15705	0.707	0.04	
7.091	74361	71504	0.962	0.15	
7.338	31989	31314	0.979	0.06	
7.366	9666	9845	1.019	0.02	
7.474	31835	29897	0.939	0.06	
7.529	35999	32095	0.892	0.07	
7.815	17601	20045	1.139	0.03	
7.837	27990	19821	0.708	0.06	
7.887	14038	12531	0.893	0.03	
7.986	32339	29293	0.906	0.06	
8.362	70540	60666	0.860	0.15	
8.440	35045	22583	0.644	0.07	
8.657	6218859	5380816	0.865	13.80	$ 12 Decachlorobiphenyl
9.001	39137	24334	0.622	0.08	
9.530	41583	24657	0.593	0.08	
	46493902	41915175		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718076.D
Lab Smp Id: 1248-CCV Client Smp ID: 1248-CCV
Inj Date : 08-MAY-2018 14:04
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-ccv, 185549:1
Misc Info : 17762,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 76 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			
2.550	2.549	0.001	5751060	0.05000	0.048			
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1231418	0.50000	0.52	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	2142917	0.50000	0.50	0.00- 20.00	174.02	BA
4.898	4.898	0.000	1100290	0.50000	0.54	0.00- 20.00	89.35	BA
4.964	4.963	0.001	2750727	0.50000	0.50	0.00- 20.00	223.38	BA
5.123	5.123	0.000	1962227	0.50000	0.52	0.00- 20.00	159.35	BA
Average of Peak Amounts =					0.51600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	6218858	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.

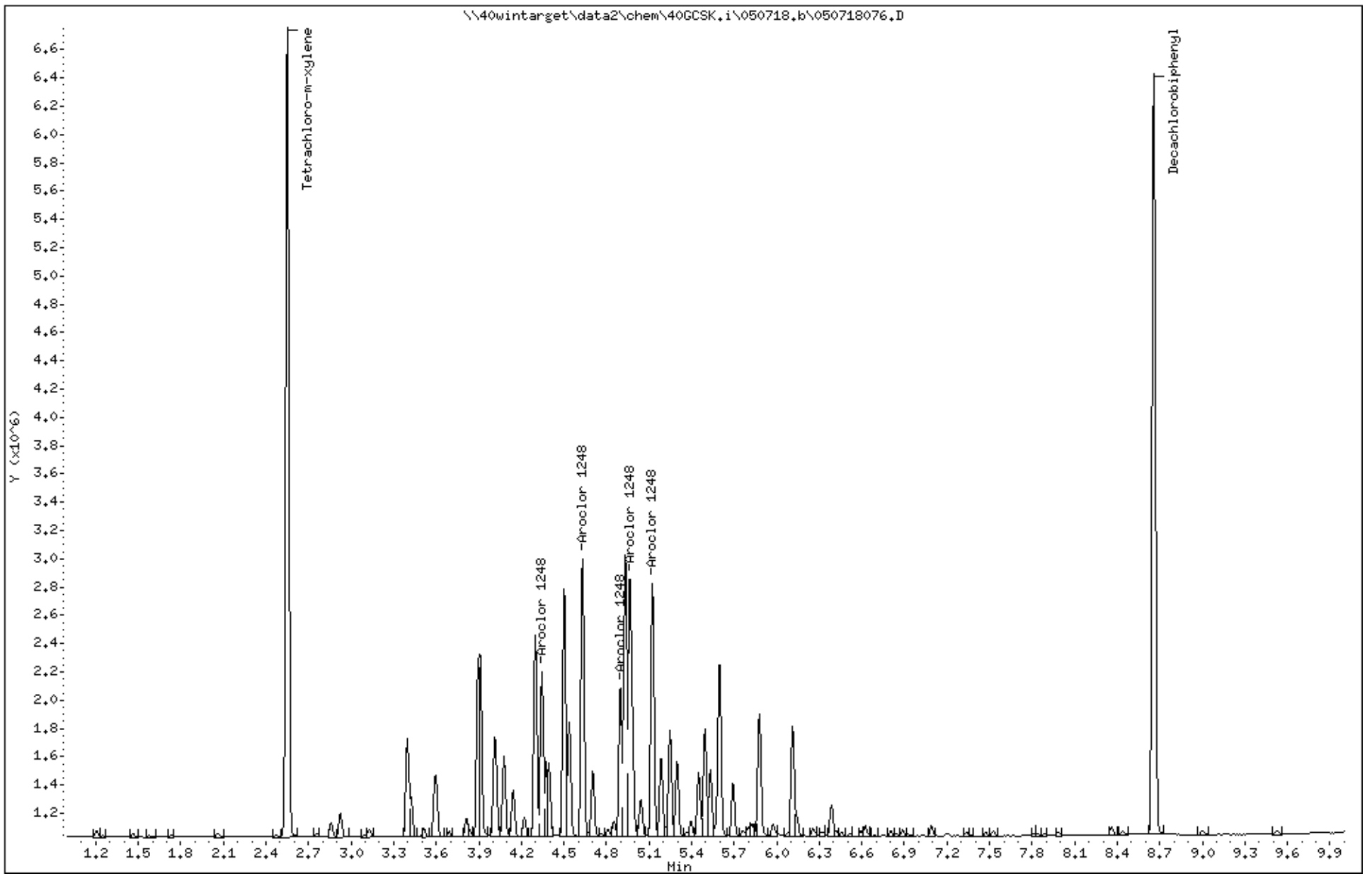
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718076.D
Date : 08-MAY-2018 14:04
Client ID: 1248-CCV
Sample Info: 1248-CCV, 185549:1

Instrument: 40GCSK.i

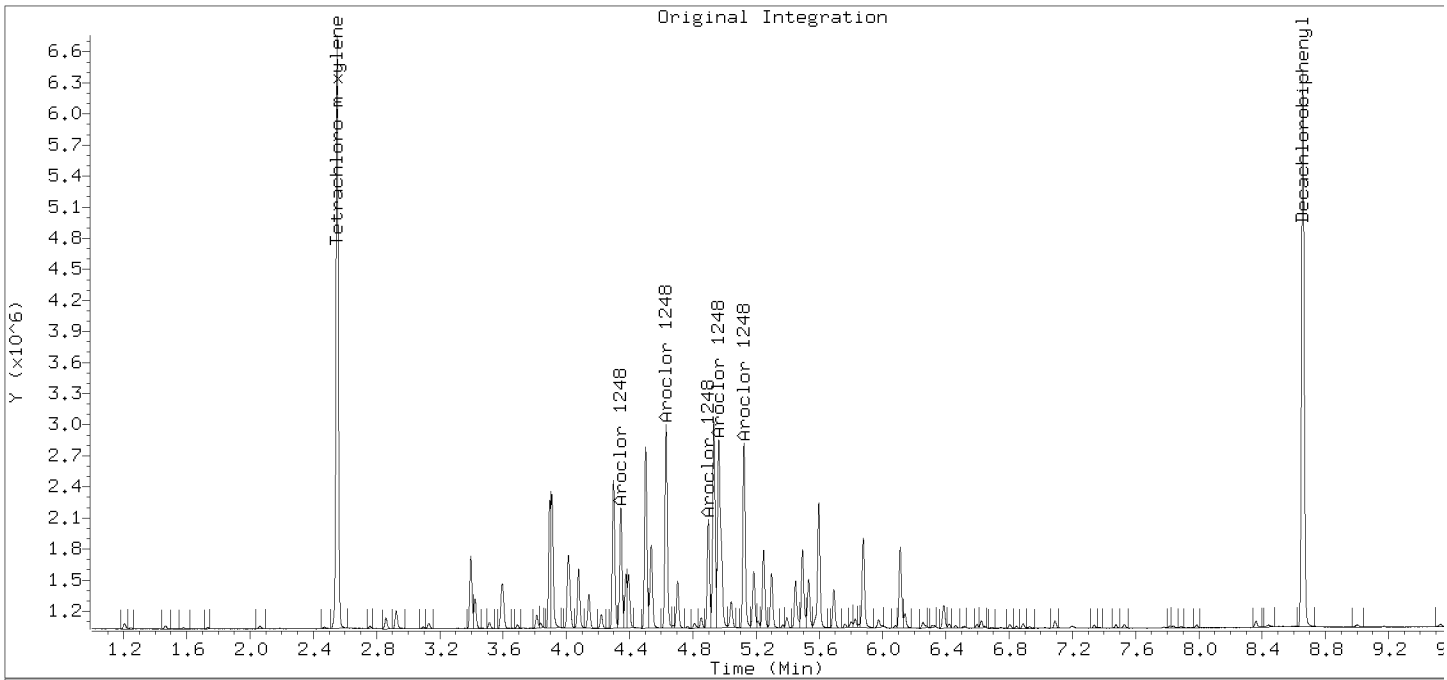
Operator: BLM

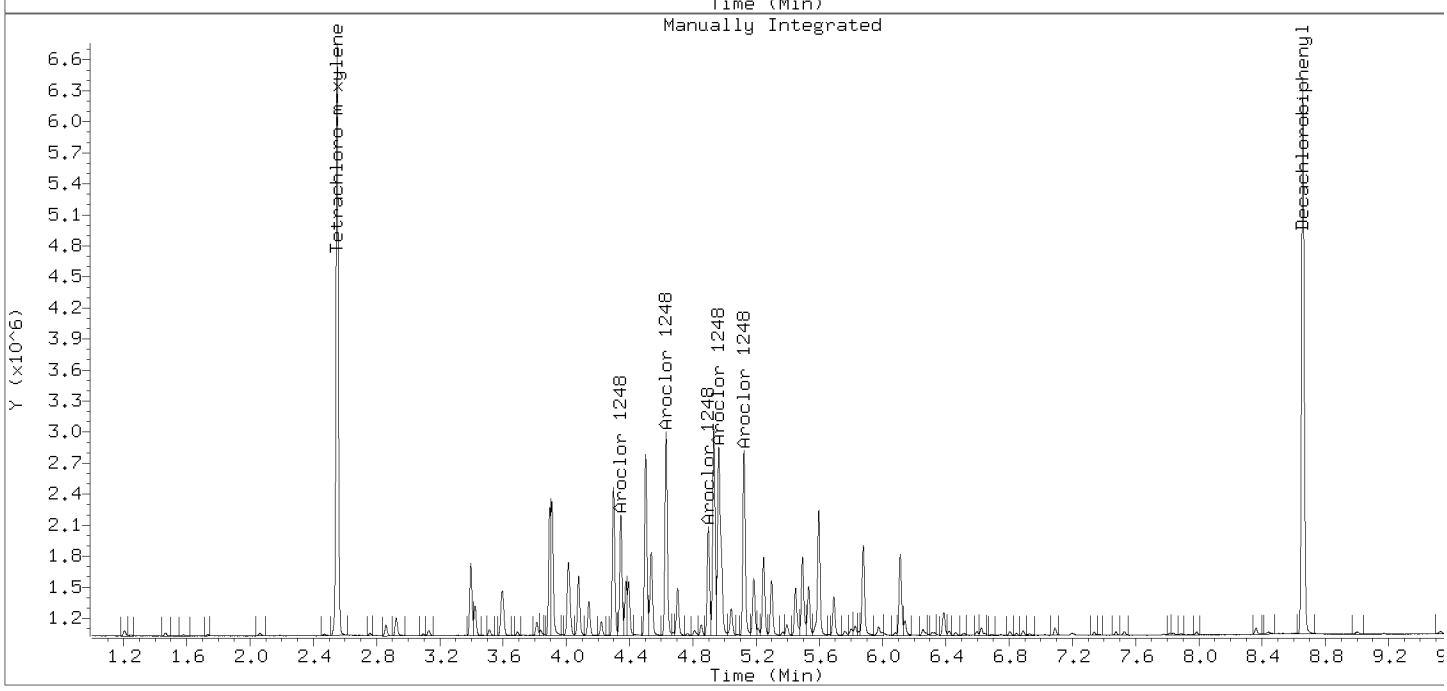
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718076.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 08-MAY-2018 14:04 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1218609	1231418	BA
Aroclor 1248	1218609	1231418	BA
Aroclor 1248	1218609	1231418	BA
Aroclor 1248	1218609	1231418	BA
Aroclor 1248	1218609	1231418	BA
Tetrachloro-m-xylene	5751060	5751060	
Decachlorobiphenyl	6218858	6218858	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718088.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 08-MAY-2018 17:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17762,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 88 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
1.203	10693	10145	0.949	0.01		
1.245	10656	12901	1.211	0.01		
1.463	37498	35060	0.935	0.06		
1.578	13390	13572	1.014	0.02		
1.730	25580	22700	0.887	0.04		
2.549	5992400	6091032	1.016	10.32	$ 2 Tetrachloro-m-xylene	
2.857	86269	84674	0.982	0.14		
2.925	20065	18290	0.912	0.03		
3.128	21990	18785	0.854	0.03		
3.396	30308	30656	1.011	0.05		
3.421	15927	16992	1.067	0.02		
3.593	35419	24550	0.693	0.06		
3.691	38378	36878	0.961	0.06		
3.895	67935	48901	0.720	0.11		
4.018	59402	43899	0.739	0.10		
4.076	25331	24345	0.961	0.04		
4.136	44752	35875	0.802	0.07		
4.298	1317252	1233178	0.936	2.27		
4.344	368740	348611	0.945	0.63		
4.376	104578	59856	0.572	0.18		
4.502	790668	768331	0.972	1.36		
4.538	76797	71804	0.935	0.13		
4.630	360069	329332	0.915	0.62		
4.676	17679	16705	0.945	0.03		
4.703	66252	60547	0.914	0.11		
4.766	16232	17271	1.064	0.02		
4.854	23361	21918	0.938	0.04		
4.898	314030	301316	0.960	0.54		
4.932	1224790	1143975	0.934	2.11		
4.980	2564245	2063171	0.805	4.42		
5.042	416080	383640	0.922	0.71		
5.124	265775	237400	0.893	0.45		
5.185	1510553	1354767	0.897	2.60		
5.247	2821331	2553221	0.905	4.86	7 Aroclor 1254	BA
5.297	1298770	1187226	0.914	2.23		
5.369	68961	65397	0.948	0.11		
5.395	229244	211885	0.924	0.39		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.449	1122600	1048984	0.934	1.93	
5.493	2353131	2113151	0.898	4.05	7 Aroclor 1254
5.532	795561	730517	0.918	1.37	
5.565	279822	277272	0.991	0.48	
5.596	4213387	3893636	0.924	7.26	7 Aroclor 1254
5.663	39104	33485	0.856	0.06	
5.691	582026	548606	0.943	1.00	
5.760	370699	348640	0.940	0.63	
5.799	576901	390614	0.677	0.99	
5.827	379964	303432	0.799	0.65	
5.876	4400612	3584450	0.815	7.58	
5.972	379056	304699	0.804	0.65	
6.014	197696	126661	0.641	0.34	
6.079	360221	344148	0.955	0.62	
6.113	2799810	2333047	0.833	4.82	7 Aroclor 1254
6.141	1951890	1661705	0.851	3.36	
6.255	793010	675438	0.852	1.36	
6.312	329226	332433	1.010	0.56	
6.328	344828	305573	0.886	0.59	
6.385	3705043	3189032	0.861	6.38	7 Aroclor 1254
6.420	640672	606441	0.947	1.10	
6.461	359993	311224	0.865	0.62	
6.524	93138	53516	0.575	0.16	
6.597	140132	138178	0.986	0.24	
6.623	1253170	1040377	0.830	2.16	
6.690	186374	158017	0.848	0.32	
6.748	30144	26596	0.882	0.05	
6.805	241088	215942	0.896	0.41	
6.847	143679	129459	0.901	0.24	
6.888	735530	684289	0.930	1.26	
6.928	177501	137778	0.776	0.30	
7.027	65691	56611	0.862	0.11	
7.091	467531	446388	0.955	0.80	
7.122	35638	28125	0.789	0.06	
7.161	21258	19123	0.900	0.03	
7.338	414359	387785	0.936	0.71	
7.369	80190	76870	0.959	0.13	
7.419	11191	8546	0.764	0.01	
7.474	17985	17345	0.964	0.03	
7.528	33540	25376	0.757	0.05	
7.636	28016	24448	0.873	0.04	
7.777	12938	13399	1.036	0.02	
7.816	20481	16896	0.825	0.03	
7.884	11325	12046	1.064	0.01	
7.985	30824	22733	0.738	0.05	
8.361	66483	53989	0.812	0.11	
8.437	13571	10251	0.755	0.02	
8.657	6296133	5443140	0.865	11.24	$ 12 Decachlorobiphenyl
9.528	17510	13770	0.786	0.03	
	58012063	51722987		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718088.D
Lab Smp Id: 1254-CCV Client Smp ID: 1254-CCV
Inj Date : 08-MAY-2018 17:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-ccv, 185554:1
Misc Info : 17762,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 16-May-2018 11:04 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 88 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			
2.549	2.549	0.000	5992400	0.05000	0.050			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	2821330	0.50000	0.50	0.00- 20.00	100.00(M)	BA
5.493	5.492	0.001	2353130	0.50000	0.50	0.00- 20.00	83.40	BA
5.596	5.596	0.000	4213386	0.50000	0.49	0.00- 20.00	149.34	BA
6.112	6.113	-0.001	2799809	0.50000	0.53	0.00- 20.00	99.24	BA
6.385	6.387	-0.002	3705042	0.50000	0.51	0.00- 20.00	131.32	BA
Average of Peak Amounts =					0.50600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	6296133	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\40GCSK.i\050718.b\050718088.D

Date : 08-MAY-2018 17:14

Client ID: 1254-CCV

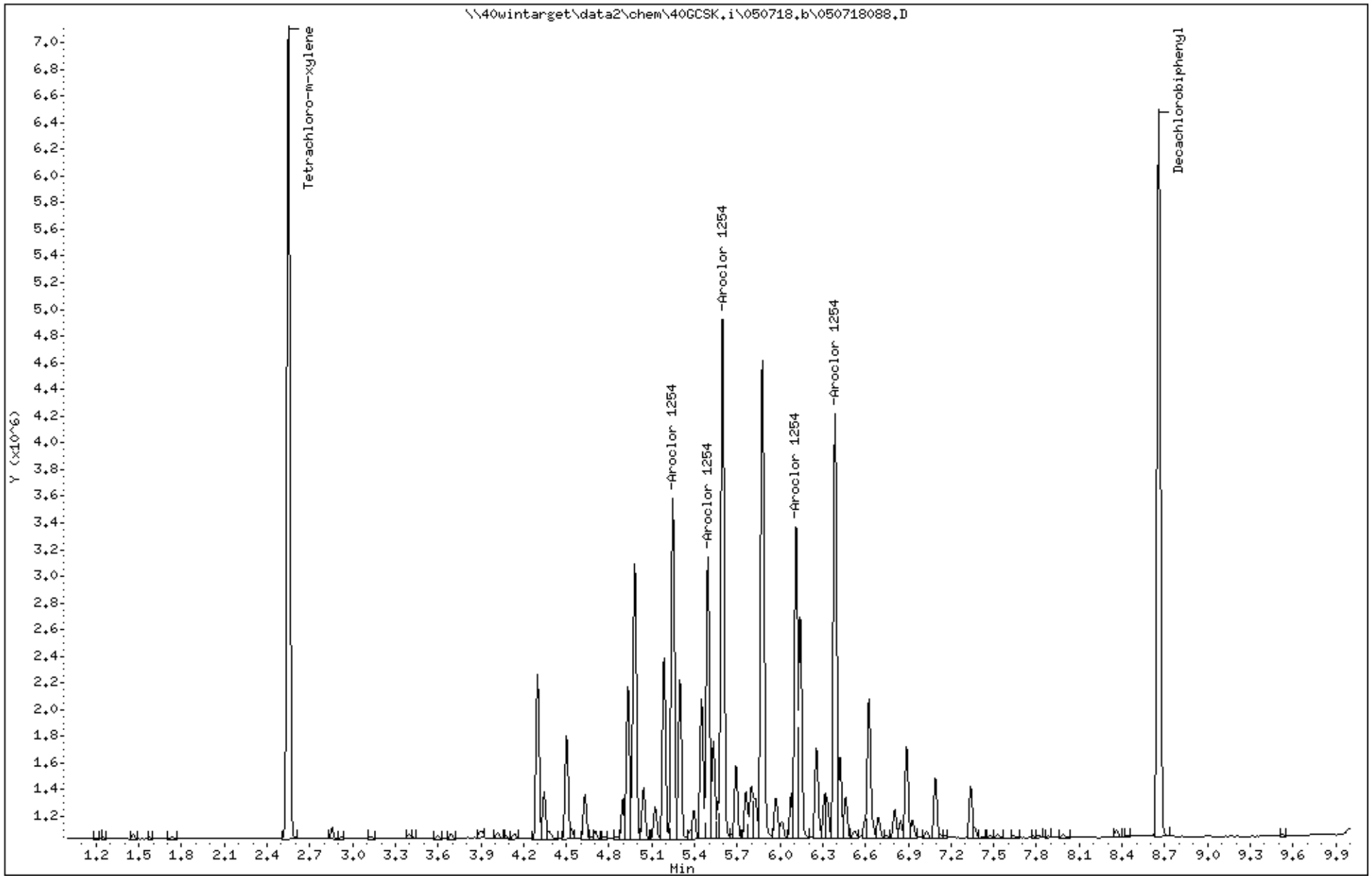
Instrument: 40GCSK.i

Sample Info: 1254-CCV, 185554:1

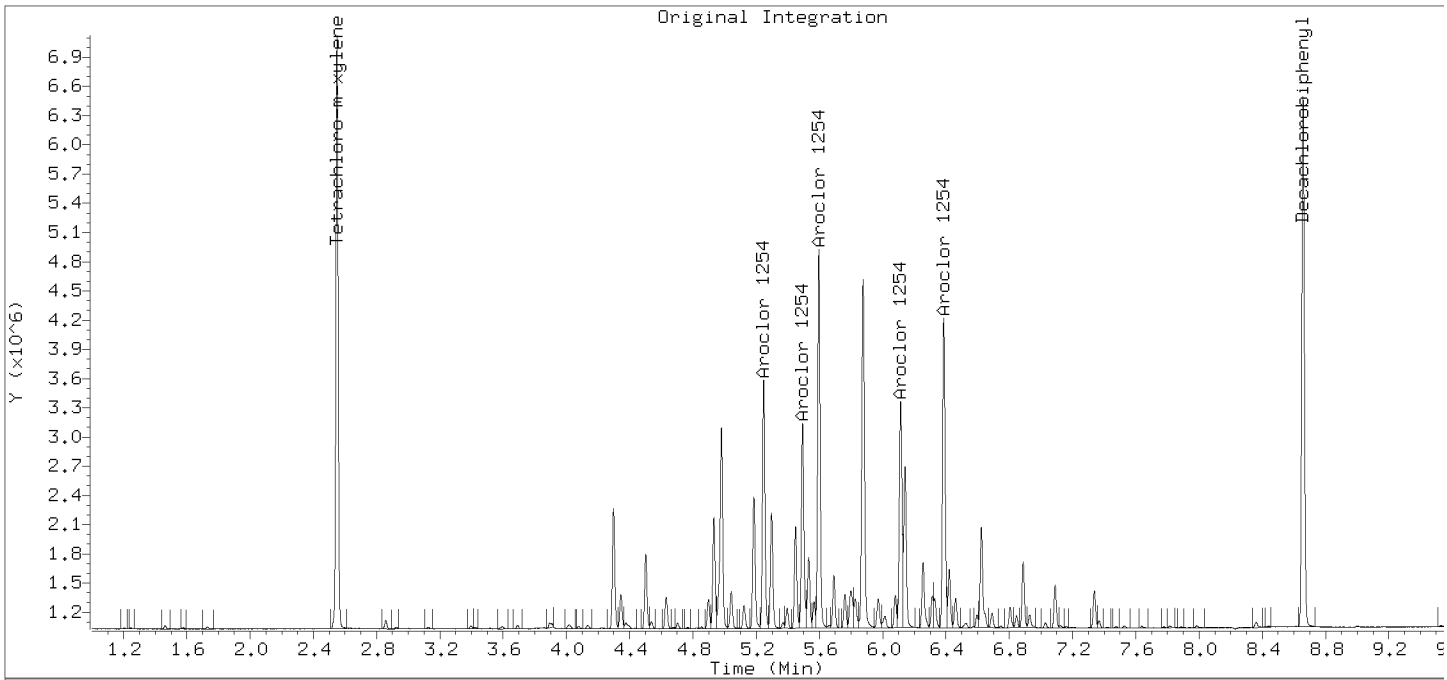
Operator: BLM

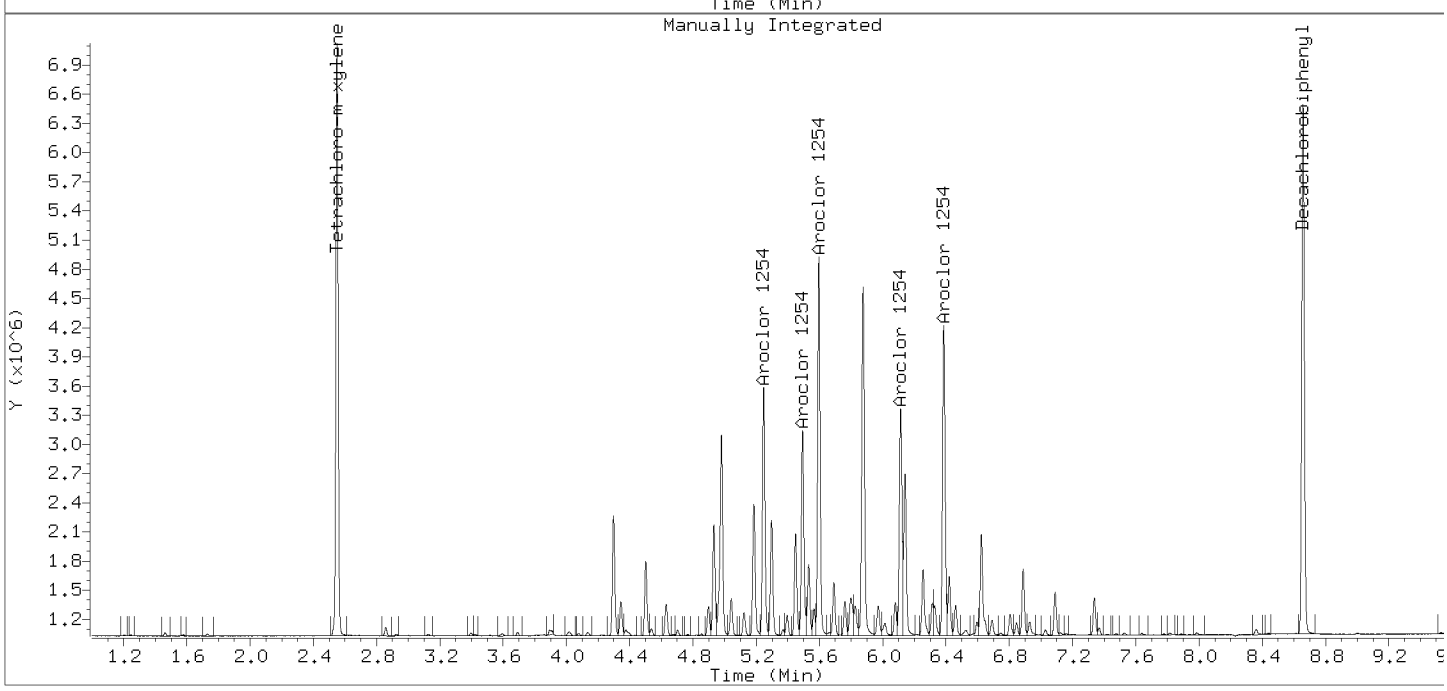
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718088.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 08-MAY-2018 17:14 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2807584	2821330	BA
Aroclor 1254	2807584	2821330	BA
Aroclor 1254	2807584	2821330	BA
Aroclor 1254	2807584	2821330	BA
Aroclor 1254	2807584	2821330	BA
Tetrachloro-m-xylene	5992400	5992400	
Decachlorobiphenyl	6296133	6296133	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718098.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 08-MAY-2018 19:53
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 98 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
1.205	24128	22805	0.945	0.02		
1.463	31000	31271	1.009	0.03		
1.575	14013	14640	1.045	0.01		
1.731	31137	27236	0.875	0.03		
1.852	15534	13584	0.874	0.01		
2.063	16032	12919	0.806	0.01		
2.470	130300	103960	0.798	0.15		
2.550	5499691	5465201	0.994	6.40	$ 2 Tetrachloro-m-xylene	
2.757	188636	153080	0.812	0.21		
2.860	284096	262217	0.923	0.33		
2.924	1056026	987196	0.935	1.22		
3.097	11203	11032	0.985	0.01		
3.131	152808	143565	0.940	0.17		
3.356	25753	19423	0.754	0.02		
3.396	1453395	1355408	0.933	1.69	5 Aroclor 1016	BA
3.423	853191	788785	0.925	0.99		
3.515	232850	212023	0.911	0.27		
3.594	1449298	1062013	0.733	1.68	5 Aroclor 1016	BA
3.690	39260	39459	1.005	0.04		
3.723	23877	16134	0.676	0.02		
3.777	40013	39209	0.980	0.04		
3.813	373637	366699	0.981	0.43		
3.837	273800	238860	0.872	0.31		
3.909	4326991	2520209	0.582	5.03	5 Aroclor 1016	BA
4.012	1839222	1517496	0.825	2.14	5 Aroclor 1016	BA
4.079	1235767	1150044	0.931	1.43	5 Aroclor 1016	BA
4.143	375559	323968	0.863	0.43		
4.221	142061	125765	0.885	0.16		
4.298	1075002	992810	0.924	1.25		
4.345	965027	909325	0.942	1.12		
4.376	403283	422063	1.047	0.46		
4.394	509997	472624	0.927	0.59		
4.455	32535	25460	0.783	0.03		
4.502	1317685	1241143	0.942	1.53		
4.537	1022016	757882	0.742	1.19		
4.631	1689599	1530143	0.906	1.96		
4.672	21656	23298	1.076	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.703	380728	351012	0.922	0.44	
4.766	28239	19752	0.699	0.03	
4.811	62018	51947	0.838	0.07	
4.852	59603	51534	0.865	0.06	
4.898	320336	303985	0.949	0.37	
4.933	500213	469779	0.939	0.58	
4.980	1547419	1142966	0.739	1.80	
5.043	103111	81786	0.793	0.12	
5.124	93704	82239	0.878	0.10	
5.186	326419	289987	0.888	0.38	
5.248	1299952	1228007	0.945	1.51	
5.297	59434	50186	0.844	0.06	
5.392	14312	12592	0.880	0.01	
5.451	94054	78722	0.837	0.10	
5.494	352654	334825	0.949	0.41	
5.534	14999	14993	1.000	0.01	
5.566	501360	485194	0.968	0.58	
5.597	902116	858181	0.951	1.05	
5.692	18491	15987	0.865	0.02	
5.761	1322572	1241271	0.939	1.54	
5.796	934608	519148	0.555	1.08	
5.873	3267349	2835634	0.868	3.80	
5.970	219981	201808	0.917	0.25	
6.016	103973	91592	0.881	0.12	
6.080	569840	558030	0.979	0.66	
6.117	1245854	1239125	0.995	1.45	
6.142	3756511	3238682	0.862	4.37	
6.255	2372427	1545606	0.651	2.76	
6.344	527173	302796	0.574	0.61	
6.386	4608909	3881852	0.842	5.36	8 Aroclor 1260
6.420	634735	579891	0.914	0.73	
6.462	150135	123781	0.824	0.17	
6.519	463466	412362	0.890	0.53	
6.573	100444	127614	1.270	0.11	
6.596	2205039	1958313	0.888	2.56	
6.624	432939	445502	1.029	0.50	
6.647	1370545	1253515	0.915	1.59	
6.690	151095	128214	0.849	0.17	
6.748	428285	389784	0.910	0.49	
6.805	2382039	2172959	0.912	2.77	
6.847	1343187	1206542	0.898	1.56	
6.890	1141709	1022937	0.896	1.32	
6.926	197020	172870	0.877	0.22	
6.955	93866	86774	0.924	0.10	
7.000	143931	140053	0.973	0.16	
7.029	482041	454086	0.942	0.56	
7.091	5387589	4961841	0.921	6.27	8 Aroclor 1260
7.121	350279	317468	0.906	0.40	
7.160	157055	131128	0.835	0.18	
7.209	224408	190405	0.848	0.26	
7.339	2662735	2463324	0.925	3.10	8 Aroclor 1260
7.369	708687	627861	0.886	0.82	
7.476	1270954	1076627	0.847	1.47	
7.528	1544045	1422128	0.921	1.79	8 Aroclor 1260
7.639	115494	101977	0.883	0.13	
7.778	636225	586353	0.922	0.74	
7.815	101796	73368	0.721	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.886	64642	55569	0.860	0.07	
7.987	1460423	1319989	0.904	1.70	8 Aroclor 1260
8.051	101450	84211	0.830	0.11	
8.361	384220	340779	0.887	0.44	
8.438	41024	25040	0.610	0.04	
8.658	6035436	5165605	0.856	7.56	$ 12 Decachlorobiphenyl
9.003	57136	36501	0.639	0.06	
9.527	70023	45450	0.649	0.08	
	85878534	74678988		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718098.D
Lab Smp Id: 1660-CCV Client Smp ID: 1660-CCV
Inj Date : 08-MAY-2018 19:53
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-ccv, 185559:1
Misc Info : 17762,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 98 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			
2.550	2.549	0.001	5499690	0.05000	0.046			
5 Aroclor 1016					CAS #: 12674-11-2			
3.396	3.395	0.001	1453395	0.50000	0.48	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1449298	0.50000	0.46	0.00- 20.00	99.72	BA
3.909	3.909	0.000	4326990	0.50000	0.46	0.00- 20.00	297.72	BA
4.012	4.011	0.001	1839222	0.50000	0.46	0.00- 20.00	126.55	BA
4.078	4.078	0.000	1235767	0.50000	0.46	0.00- 20.00	85.03	BA
Average of Peak Amounts =					0.46400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	4608909	0.50000	0.46	0.00- 20.00	100.00(M)	BA
7.091	7.090	0.001	5387589	0.50000	0.46	0.00- 20.00	116.90	BA
7.338	7.338	0.000	2662734	0.50000	0.47	0.00- 20.00	57.77	BA
7.528	7.529	-0.001	1544044	0.50000	0.45	0.00- 20.00	33.50	BA
7.987	7.987	0.000	1460423	0.50000	0.46	0.00- 20.00	31.69	BA
Average of Peak Amounts =					0.46000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	6035435	0.05000	0.045			

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\40GCSK.i\050718.b\050718098.D

Date : 08-MAY-2018 19:53

Client ID: 1660-CCV

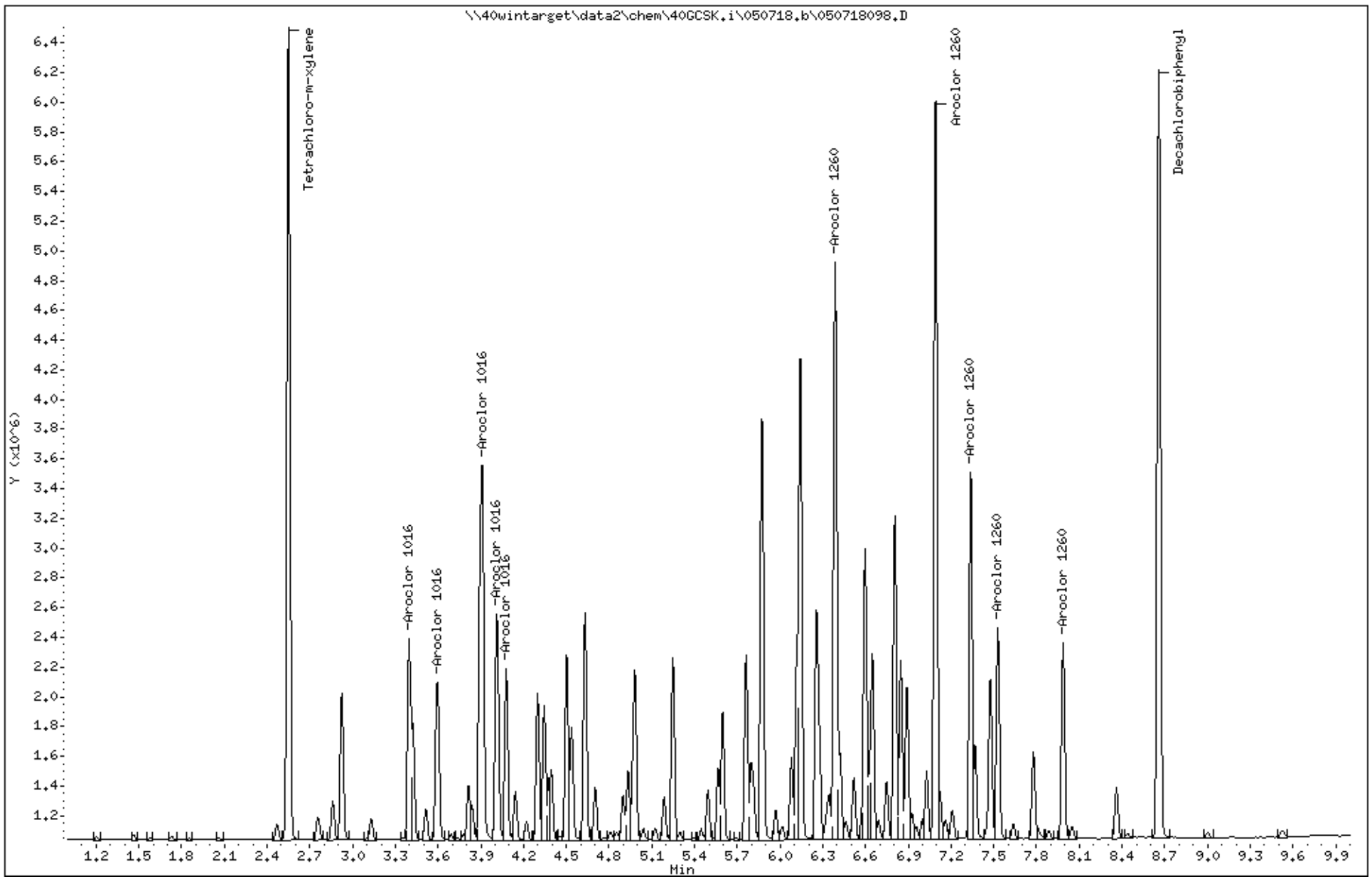
Instrument: 40GCSK.i

Sample Info: 1660-CCV, 185559:1

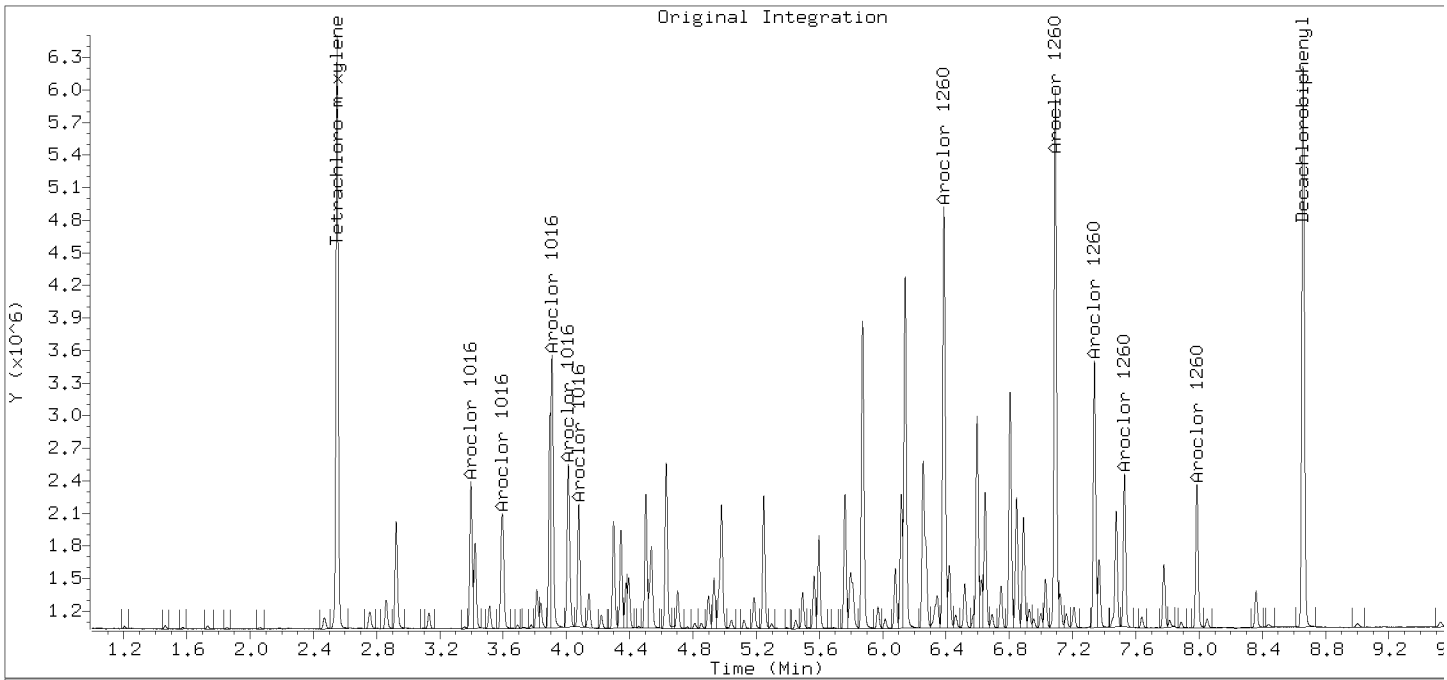
Operator: BLM

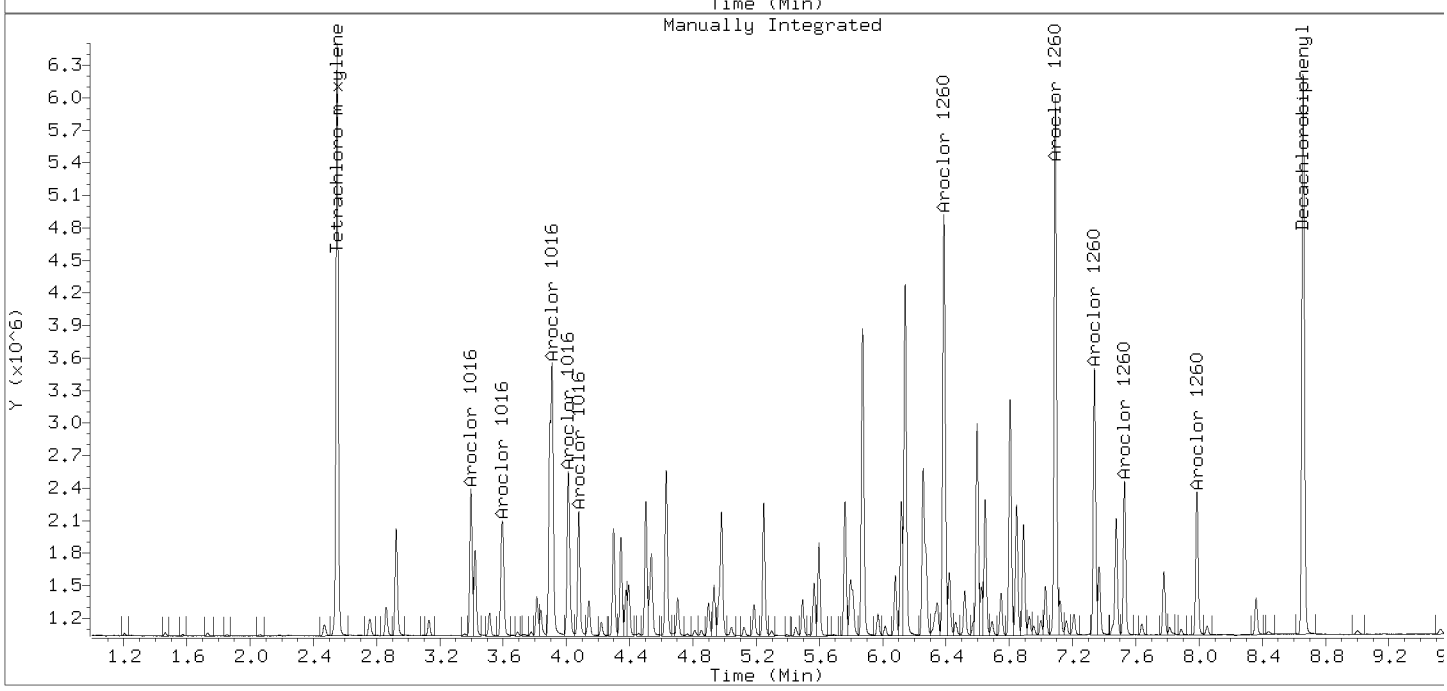
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718098.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 08-MAY-2018 19:53 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1437341	1453395	BA
Aroclor 1016	1437341	1453395	BA
Aroclor 1016	1437341	1453395	BA
Aroclor 1016	1437341	1453395	BA
Aroclor 1016	1437341	1453395	BA
Aroclor 1260	4593801	4608909	BA
Aroclor 1260	4593801	4608909	BA
Aroclor 1260	4593801	4608909	BA
Aroclor 1260	4593801	4608909	BA
Aroclor 1260	4593801	4608909	BA
Tetrachloro-m-xylene	5499690	5499690	
Decachlorobiphenyl	6035435	6035435	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018004.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 10-MAY-2018 07:42
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.202	27438	24275	0.885	0.15			
1.243	10261	9518	0.928	0.05			
1.462	36907	32503	0.881	0.20			
1.576	17333	15609	0.901	0.09			
1.731	268280	268680	1.001	1.47			
1.804	16487	13353	0.810	0.09			
1.853	478163	453972	0.949	2.62		1 Aroclor 1221	BA
2.063	20801	15221	0.732	0.11			
2.257	154966	138427	0.893	0.85			
2.473	255153	189042	0.741	1.40		1 Aroclor 1221	BA
2.550	5639898	5555785	0.985	30.95	$	2 Tetrachloro-m-xylene	BA
2.759	671839	545634	0.812	3.68		1 Aroclor 1221	BA
2.861	527904	491584	0.931	2.89		1 Aroclor 1221	BA
2.923	1643372	1453893	0.885	9.02		1 Aroclor 1221	BA
3.090	19012	14694	0.773	0.10			
3.129	38539	30369	0.788	0.21			
3.360	113707	86009	0.756	0.62			
3.404	398309	205024	0.515	2.18			
3.512	36678	31059	0.847	0.20			
3.593	145985	102798	0.704	0.80			
3.690	38386	36822	0.959	0.21			
3.774	12770	11737	0.919	0.07			
3.812	43162	39937	0.925	0.23			
3.838	48701	40341	0.828	0.26			
3.910	336707	193836	0.576	1.84			
4.012	155901	127649	0.819	0.85			
4.077	101110	89517	0.885	0.55			
4.133	62261	48790	0.784	0.34			
4.298	36066	33904	0.940	0.19			
4.345	27492	28160	1.024	0.15			
4.375	15654	12598	0.805	0.08			
4.502	38788	41128	1.060	0.21			
4.533	44032	27460	0.624	0.24			
4.630	52400	48962	0.934	0.28			
4.704	11043	11424	1.034	0.06			
4.899	20808	19995	0.961	0.11			
4.934	34547	34129	0.988	0.18			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.964	55958	37223	0.665	0.30	
5.124	38006	31543	0.830	0.20	
5.244	13946	10921	0.783	0.07	
5.483	23795	13325	0.560	0.13	
5.878	11414	9614	0.842	0.06	
6.021	20191	14829	0.734	0.11	
6.278	24526	20156	0.822	0.13	
6.508	21660	14728	0.680	0.11	
7.194	37347	20186	0.541	0.20	
7.816	21157	19808	0.936	0.11	
7.838	41992	30749	0.732	0.23	
7.890	20713	13810	0.667	0.11	
8.362	55017	46012	0.836	0.30	
8.441	54895	34474	0.628	0.30	
8.658	5923864	5132519	0.866	32.74	$ 12 Decachlorobiphenyl
9.000	78967	47864	0.606	0.43	
9.403	21631	19257	0.890	0.11	
9.526	91395	58408	0.639	0.50	
9.741	60747	17407	0.287	0.33	
	18218084	16116671		100.000	

Total unknown % area = 17

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018004.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 10-MAY-2018 07:42
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17762,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO		REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8				
2.550	2.549	0.001	5639897	0.05000	0.047			(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2				
1.853	1.853	0.000	478162	0.50000	0.48	0.00- 20.00	100.00	(M)	BA
2.472	2.471	0.001	255153	0.50000	0.48	0.00- 20.00	53.36		BA
2.758	2.758	0.000	671839	0.50000	0.48	0.00- 20.00	140.50		BA
2.860	2.860	0.000	527903	0.50000	0.48	0.00- 20.00	110.40		BA
2.923	2.923	0.000	1643372	0.50000	0.49	0.00- 20.00	343.69		BA
Average of Peak Amounts =					0.48200				
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
8.658	8.657	0.001	5923863	0.05000	0.044				

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

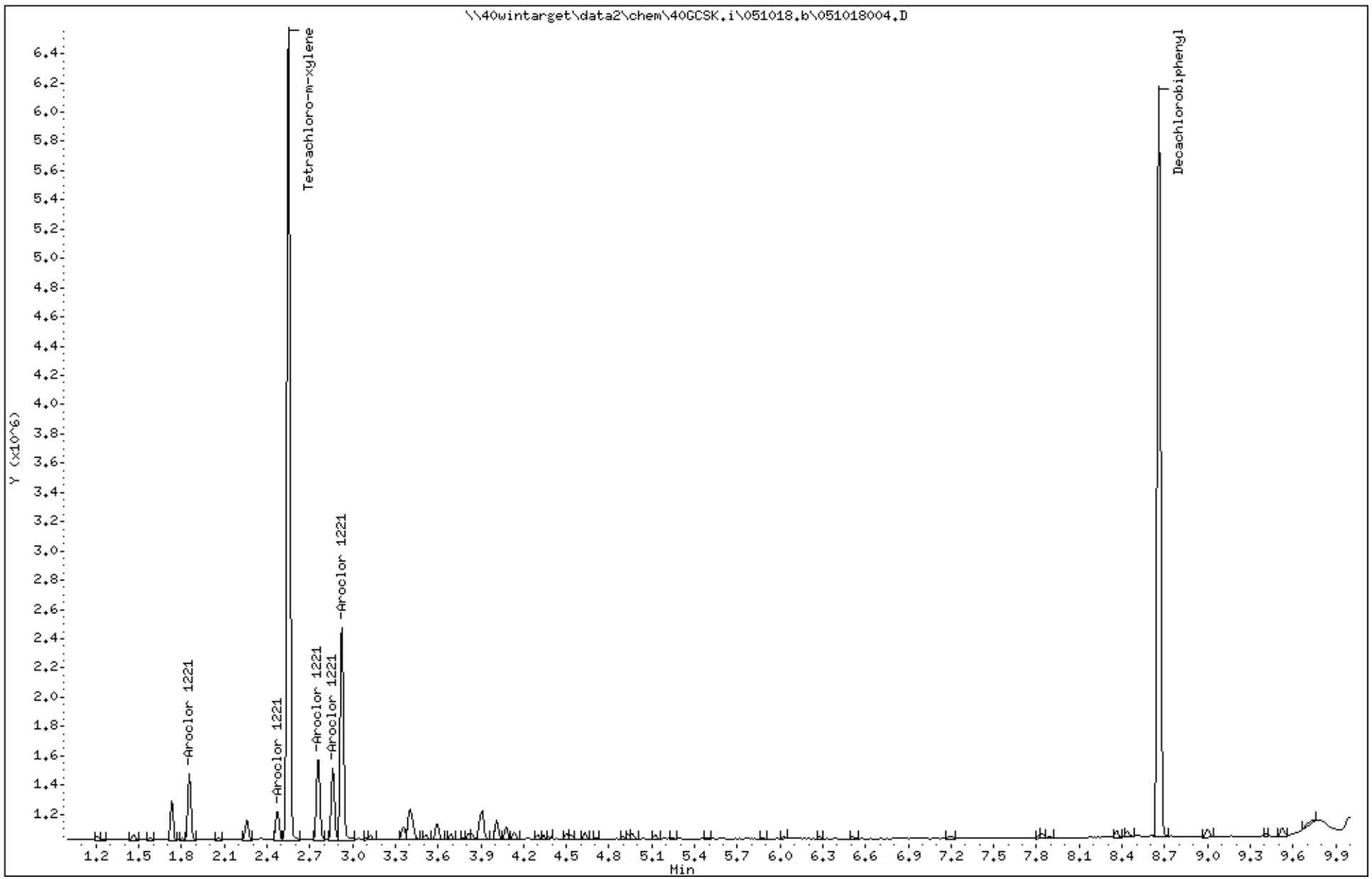
Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b\051018004.D
Date : 10-MAY-2018 07:42
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

Instrument: 40GCSK.i

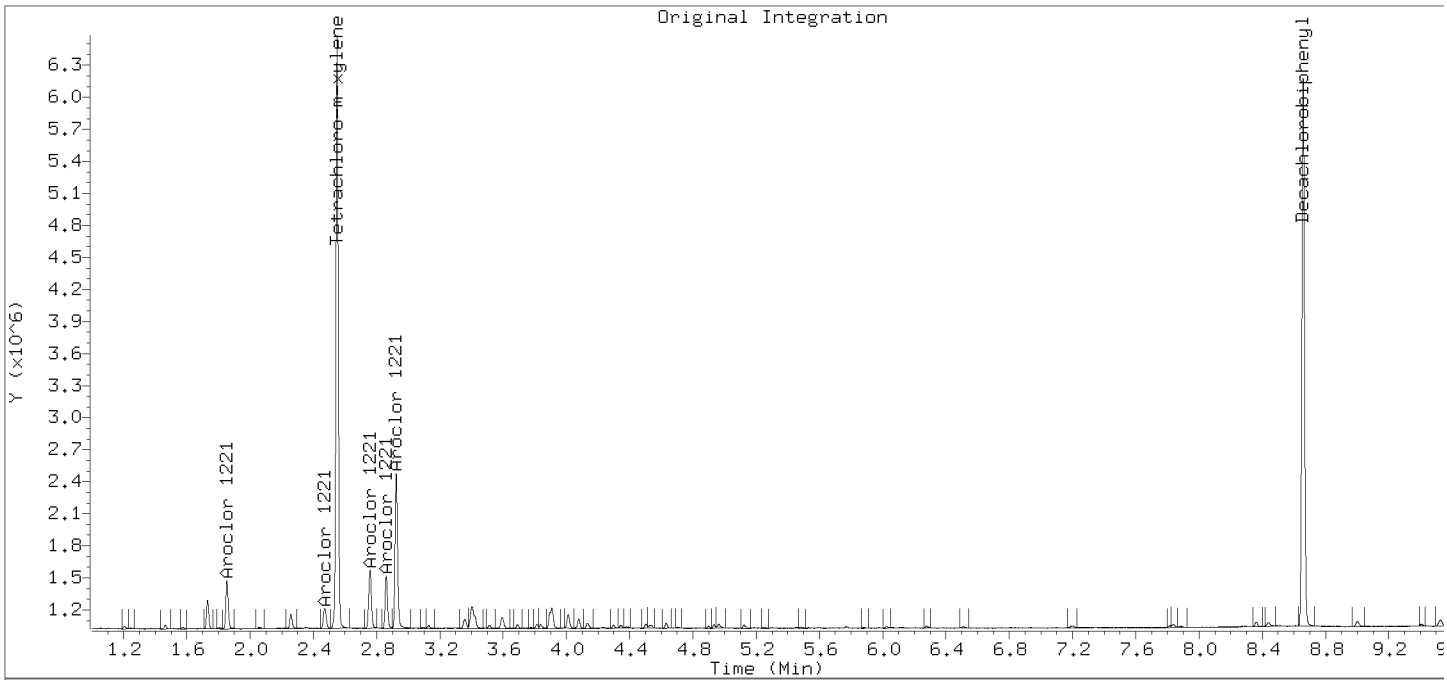
Operator: BLM

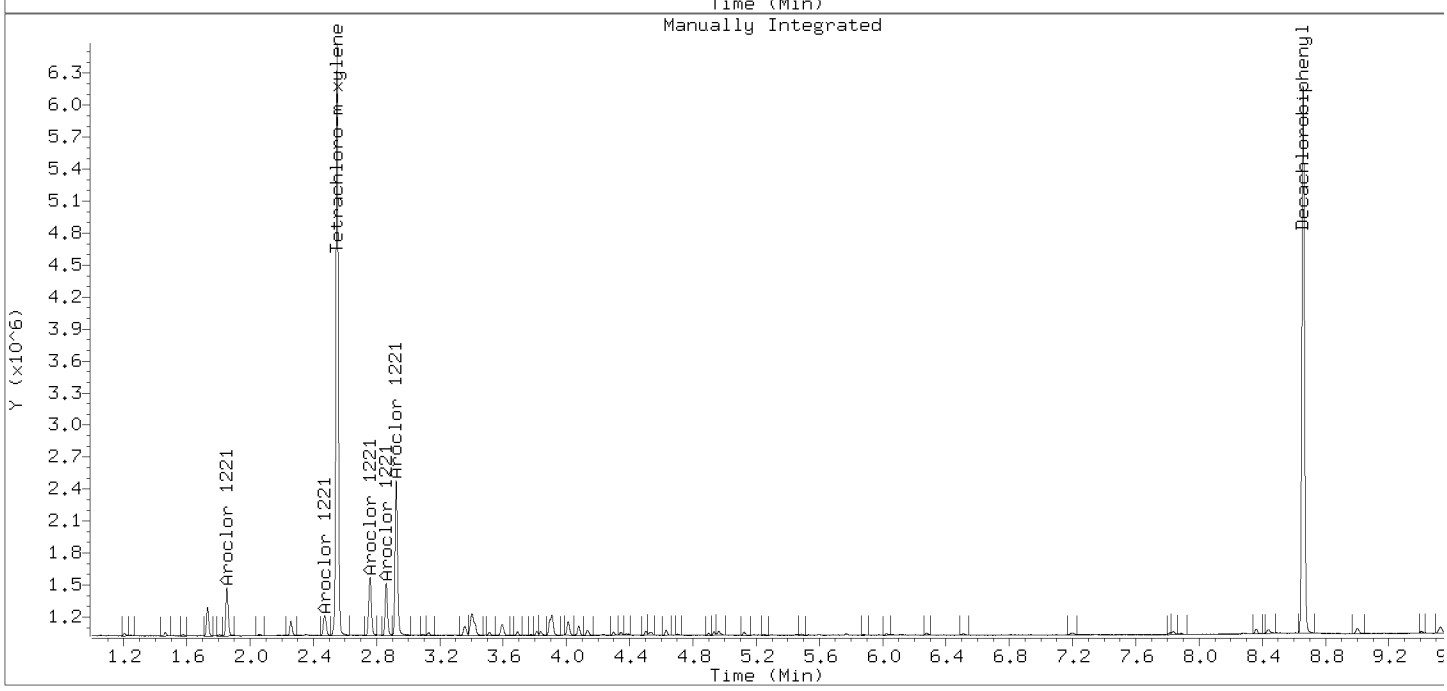
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b/051018004.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 10-MAY-2018 07:42 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	473553	478162	BA
Aroclor 1221	473553	478162	BA
Aroclor 1221	473553	478162	BA
Aroclor 1221	473553	478162	BA
Aroclor 1221	473553	478162	BA
Tetrachloro-m-xylene	5616161	5639897	BA
Decachlorobiphenyl	5923863	5923863	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018010.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 10-MAY-2018 09:46
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17762,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 10 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
1.205	36746	32389	0.881	0.13		
1.462	33548	33144	0.988	0.12		
1.573	21467	16701	0.778	0.07		
1.732	20806	16413	0.789	0.07		
1.853	278237	268694	0.966	1.01		
2.061	21550	18292	0.849	0.07		
2.259	75503	73631	0.975	0.27		
2.470	186379	141705	0.760	0.67		
2.549	5504495	5484717	0.996	20.01	$ 2 Tetrachloro-m-xylene	
2.758	419915	345201	0.822	1.52		
2.860	393953	364431	0.925	1.43		
2.923	1295482	1155163	0.892	4.70	4 Aroclor 1232	BA
3.091	20737	14908	0.719	0.07		
3.131	83996	75172	0.895	0.30		
3.358	72230	52637	0.729	0.26		
3.396	736880	660339	0.896	2.67		
3.422	420694	373239	0.887	1.52		
3.514	120989	103668	0.857	0.43		
3.594	674282	487391	0.723	2.45	4 Aroclor 1232	BA
3.692	41416	37396	0.903	0.15		
3.777	27254	22936	0.842	0.09		
3.813	179507	173937	0.969	0.65		
3.836	132038	115416	0.874	0.48		
3.908	1991824	1130633	0.568	7.24	4 Aroclor 1232	BA
4.012	851216	705721	0.829	3.09	4 Aroclor 1232	BA
4.078	563811	513330	0.910	2.04	4 Aroclor 1232	BA
4.142	164355	137325	0.836	0.59		
4.220	71434	52696	0.738	0.25		
4.298	405740	379203	0.935	1.47		
4.345	393500	369745	0.940	1.43		
4.376	173093	173904	1.005	0.62		
4.395	202056	192155	0.951	0.73		
4.458	19499	14742	0.756	0.07		
4.502	542373	521416	0.961	1.97		
4.536	475672	321571	0.676	1.72		
4.631	712045	656412	0.922	2.58		
4.705	168087	153708	0.914	0.61		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.810	41266	32890	0.797	0.15	
4.854	42527	36554	0.860	0.15	
4.898	326600	313306	0.959	1.18	
4.933	576210	548660	0.952	2.09	
4.964	754412	566035	0.750	2.74	
5.043	80514	62718	0.779	0.29	
5.123	629892	585863	0.930	2.29	
5.185	101686	91395	0.899	0.36	
5.248	136715	119808	0.876	0.49	
5.298	99044	87626	0.885	0.36	
5.395	25680	20578	0.801	0.09	
5.449	108467	75463	0.696	0.39	
5.494	138723	119639	0.862	0.50	
5.533	89902	77421	0.861	0.32	
5.596	248029	182408	0.735	0.90	
5.692	73175	60831	0.831	0.26	
5.762	21597	16309	0.755	0.07	
5.879	167020	132661	0.794	0.60	
5.976	23762	17324	0.729	0.08	
6.113	134829	117114	0.869	0.49	
6.141	32472	28495	0.878	0.11	
6.255	10017	13329	1.331	0.03	
6.276	19373	15668	0.809	0.07	
6.386	41520	36263	0.873	0.15	
6.506	10083	7514	0.745	0.03	
6.804	14476	13779	0.952	0.05	
7.092	26992	22750	0.843	0.09	
7.339	11724	13031	1.112	0.04	
7.817	20986	16924	0.806	0.07	
7.886	16324	13403	0.821	0.05	
7.984	9857	7606	0.772	0.03	
8.361	54470	47216	0.867	0.19	
8.440	14799	14473	0.978	0.05	
8.658	5832197	5006691	0.858	21.56	$ 12 Decachlorobiphenyl
9.167	11085	7794	0.703	0.04	
9.529	26336	17627	0.669	0.09	
	27505567	23937247		100.000	

Total unknown % area = 39

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\051018.b\051018010.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 10-MAY-2018 09:46
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17762,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\051018.b\pcba050318.m
Meth Date : 10-May-2018 14:05 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 10 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			
2.549	2.549	0.000	5504495	0.05000	0.046			
4 Aroclor 1232					CAS #: 1114-16-5			
2.923	2.922	0.001	1295481	0.50000	0.48	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	674281	0.50000	0.48	0.00- 20.00	52.05	BA
3.908	3.908	0.000	1991824	0.50000	0.48	0.00- 20.00	153.75	BA
4.012	4.011	0.001	851216	0.50000	0.48	0.00- 20.00	65.71	BA
4.078	4.078	0.000	563810	0.50000	0.48	0.00- 20.00	43.52	BA
Average of Peak Amounts =					0.48000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	5832197	0.05000	0.044			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b\051018010.D

Date : 10-MAY-2018 09:46

Client ID: 1232-CCV

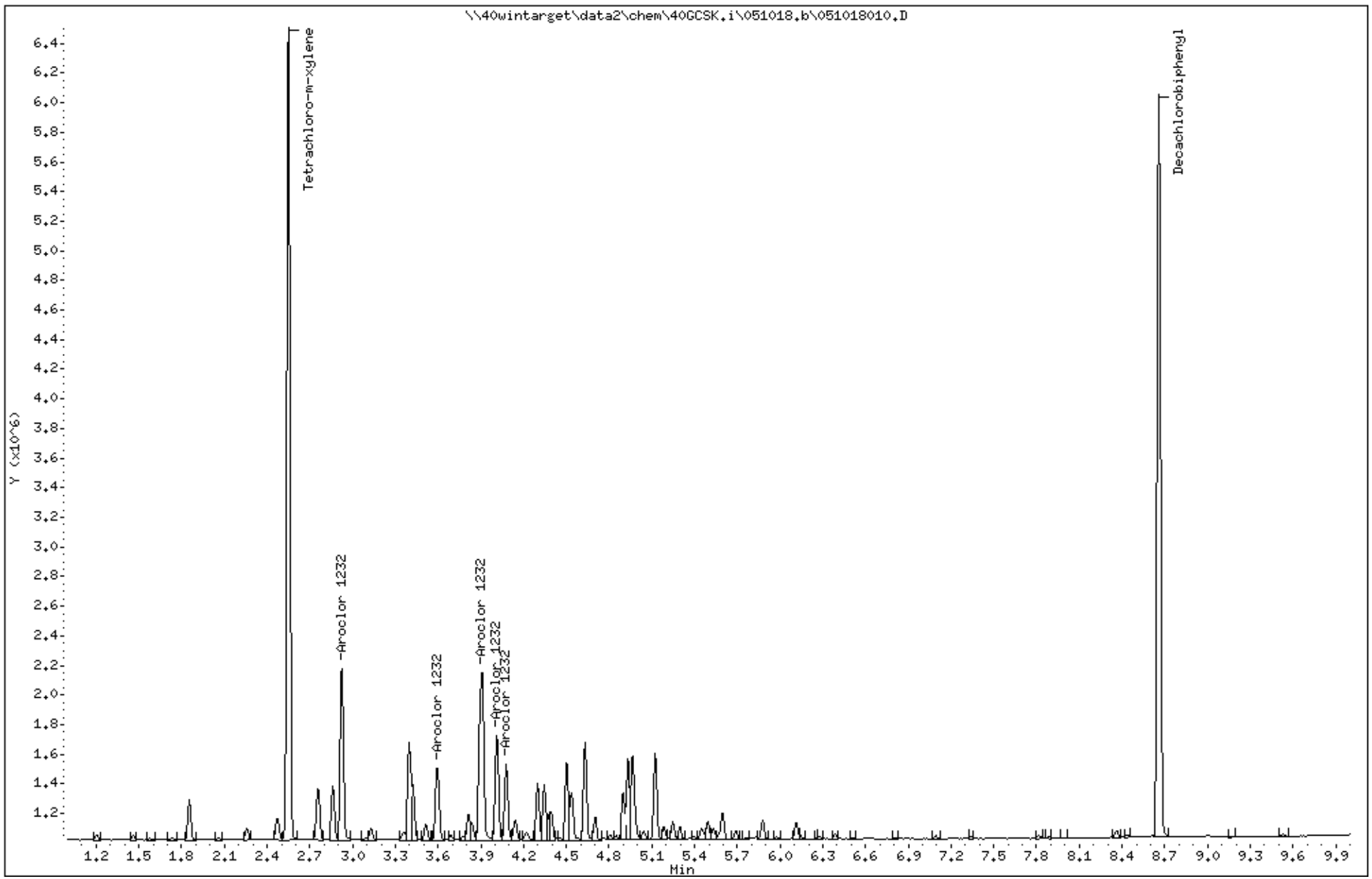
Instrument: 40GCSK.i

Sample Info: 1232-CCV, 185539:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\051018.b/051018010.D (ManInt: AR1232.sub Orig: AR1221.sub)
Injection Date: 10-MAY-2018 09:46 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1232-CCV

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.: 40158017

Date Extracted: 04/30/2018 10:28

Lab Sample ID: 1681428

Date Analyzed: 05/07/2018 14:38

Lab File ID: 050718.B\050718006.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK 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\40GCSK.i\050718.b\050718006.D
Lab Smp Id: 1681428 Client Smp ID: MB
Inj Date : 07-MAY-2018 14:38
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681428,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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
1.204	15915	14949	0.939	0.08		
1.733	20427	18156	0.889	0.10		
2.063	10564	10334	0.978	0.05		
2.259	15425	13122	0.851	0.07		
2.551	8431564	8575220	1.017	42.75	$ 2 Tetrachloro-m-xylene	
2.859	20284	18432	0.909	0.10		
4.133	26266	25782	0.982	0.13		
4.319	21982	15895	0.723	0.11		
5.763	10483	7249	0.692	0.05		
6.275	14700	10064	0.685	0.07		
6.513	15907	11492	0.722	0.08		
7.194	34769	18392	0.529	0.17		
7.813	26474	28278	1.068	0.13		
7.838	35438	24359	0.687	0.17		
7.884	12684	12748	1.005	0.06		
8.360	83979	78889	0.939	0.42		
8.440	49633	30822	0.621	0.25		
8.656	10685703	9118828	0.853	54.27	$ 12 Decachlorobiphenyl	
8.998	78809	51696	0.656	0.39		
9.525	110033	66010	0.600	0.55		
	19721039	18150717		100.000		

Total unknown % area = 3.0

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718006.D
Lab Smp Id: 1681428 Client Smp ID: MB
Inj Date : 07-MAY-2018 14:38
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681428,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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

2.551	2.549	0.002	8431564	0.07001	35			

---

3 Aroclor 1242 CAS #: 53469-21-9

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

---

4 Aroclor 1232 CAS #: 1114-16-5

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

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

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

---

7 Aroclor 1254 CAS #: 11097-69-1

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

---

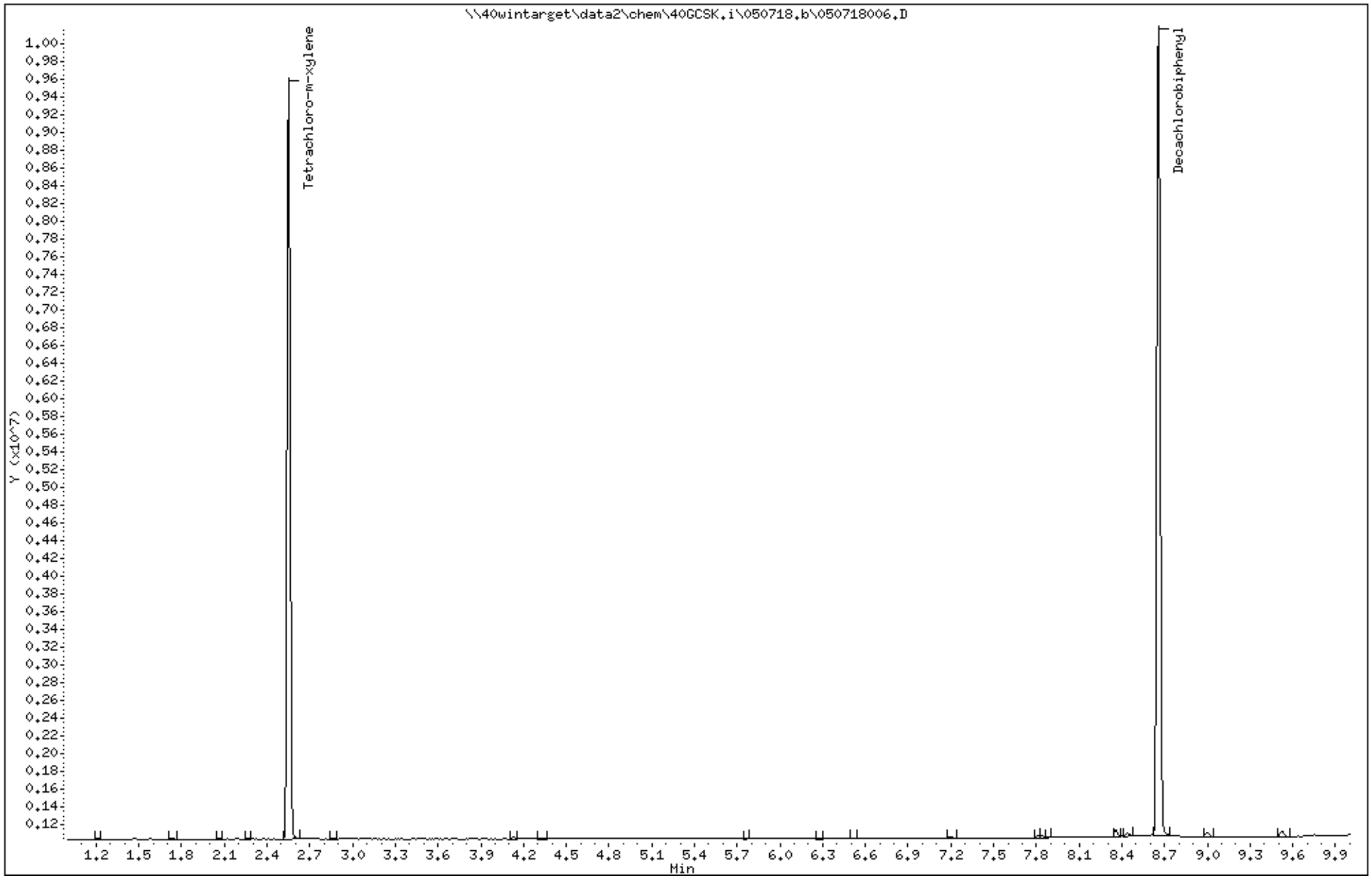
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.656	8.657	-0.001	10685703	0.08023	40			

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718006.D
Date : 07-MAY-2018 14:38
Client ID: MB
Instrument: 40GCSK.i
Sample Info: 1681428,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718006.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 14:38 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681428

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	8431564	8431564	
Decachlorobiphenyl	10685703	10685703	

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.: 40158017

Date Extracted: 04/30/2018 10:28

Lab Sample ID: 1681429

Date Analyzed: 05/07/2018 14:54

Lab File ID: 050718.B\050718007.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<11.4	U
11104-28-2	PCB-1221 (Aroclor 1221)	<11.4	U
11141-16-5	PCB-1232 (Aroclor 1232)	<11.4	U
53469-21-9	PCB-1242 (Aroclor 1242)	236	
12672-29-6	PCB-1248 (Aroclor 1248)	<11.4	U
11097-69-1	PCB-1254 (Aroclor 1254)	<11.4	U
11096-82-5	PCB-1260 (Aroclor 1260)	<11.4	U

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718007.D
Lab Smp Id: 1681429 Client Smp ID: MBLCS
Inj Date : 07-MAY-2018 14:54
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681429,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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
1.205	12302	10929	0.888	0.02		
1.466	11744	11878	1.011	0.02		
1.733	24263	21138	0.871	0.05		
1.852	10233	10283	1.005	0.02		
2.261	19315	17321	0.897	0.04		
2.471	111625	86699	0.777	0.24		
2.551	9319067	9553716	1.025	20.08	$ 2 Tetrachloro-m-xylene	
2.757	161798	129148	0.798	0.34		
2.863	195571	182316	0.932	0.42		
2.924	896451	825817	0.921	1.93		
2.988	11973	9596	0.801	0.02		
3.130	108680	104768	0.964	0.23		
3.356	16490	14420	0.874	0.03		
3.396	1159272	1095284	0.945	2.49	3 Aroclor 1242	BA
3.423	686686	629480	0.917	1.48		
3.514	189900	164948	0.869	0.40		
3.594	1151458	834035	0.724	2.48	3 Aroclor 1242	BA
3.729	19144	15001	0.784	0.04		
3.778	33381	32169	0.964	0.07		
3.814	294355	286192	0.972	0.63		
3.837	209334	186506	0.891	0.45		
3.909	3441414	1903510	0.553	7.41	3 Aroclor 1242	BA
4.012	1473863	1178510	0.800	3.17	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.078	967709	882691	0.912	2.08	3 Aroclor 1242
4.143	296443	248890	0.840	0.63	
4.221	108893	99419	0.913	0.23	
4.298	807255	765472	0.948	1.74	
4.345	764659	721268	0.943	1.64	
4.377	322468	321440	0.997	0.69	
4.394	389396	355748	0.914	0.83	
4.459	30619	18715	0.611	0.06	
4.502	1047848	976822	0.932	2.25	
4.537	824299	617085	0.749	1.77	
4.631	1367729	1197509	0.876	2.94	
4.703	319099	273424	0.857	0.68	
4.764	28116	18319	0.652	0.06	
4.812	71830	56768	0.790	0.15	
4.854	75113	68475	0.912	0.16	
4.898	626155	598612	0.956	1.34	
4.932	1127245	1046045	0.928	2.42	
4.964	1467722	1044457	0.712	3.16	
5.043	178398	125385	0.703	0.38	
5.124	1205106	1062471	0.882	2.59	
5.185	254894	191684	0.752	0.54	
5.247	285198	247263	0.867	0.61	
5.297	223905	178638	0.798	0.48	
5.397	45207	39948	0.884	0.09	
5.449	189021	149911	0.793	0.40	
5.493	295637	246449	0.834	0.63	
5.531	185516	159571	0.860	0.39	
5.596	497209	369579	0.743	1.07	
5.691	158239	128560	0.812	0.34	
5.761	26829	18230	0.679	0.05	
5.804	27620	22873	0.828	0.05	
5.826	42275	32502	0.769	0.09	
5.878	336982	258082	0.766	0.72	
5.976	39843	30370	0.762	0.08	
6.112	252666	221450	0.876	0.54	
6.253	23537	16488	0.701	0.05	
6.387	73666	60929	0.827	0.15	
6.424	11558	11644	1.007	0.02	
6.594	9828	11279	1.148	0.02	
6.625	16419	16361	0.996	0.03	
6.803	11469	11705	1.021	0.02	
6.847	10366	7364	0.710	0.02	
6.888	15507	13048	0.841	0.03	
7.090	18701	16547	0.885	0.04	
7.338	9960	9224	0.926	0.02	
7.816	38190	28435	0.745	0.08	
7.884	18975	14954	0.788	0.04	
8.359	98220	81891	0.834	0.21	
8.442	24369	15058	0.618	0.05	
8.657	11480790	9977491	0.869	25.11	$ 12 Decachlorobiphenyl
9.000	37375	22446	0.601	0.08	
9.526	45921	27673	0.603	0.09	
	46390311	40440326		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718007.D
Lab Smp Id: 1681429 Client Smp ID: MBLCS
Inj Date : 07-MAY-2018 14:54
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681429,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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			
2.550	2.549	0.001	9319066	0.07737	39			
3 Aroclor 1242					CAS #: 53469-21-9			
3.395	3.396	-0.001	1159271	0.47897	240	0.00- 20.00	100.00(M)	BA
3.594	3.592	0.002	1151457	0.46784	230	0.00- 20.00	99.33	BA
3.908	3.909	-0.001	3441413	0.47432	240	0.00- 20.00	296.86	BA
4.012	4.011	0.001	1473862	0.47296	240	0.00- 20.00	127.14	BA
4.078	4.078	0.000	967709	0.46229	230	0.00- 20.00	83.48	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

8.656	8.657	-0.001	11480790	0.08620	43	

QC Flag Legend

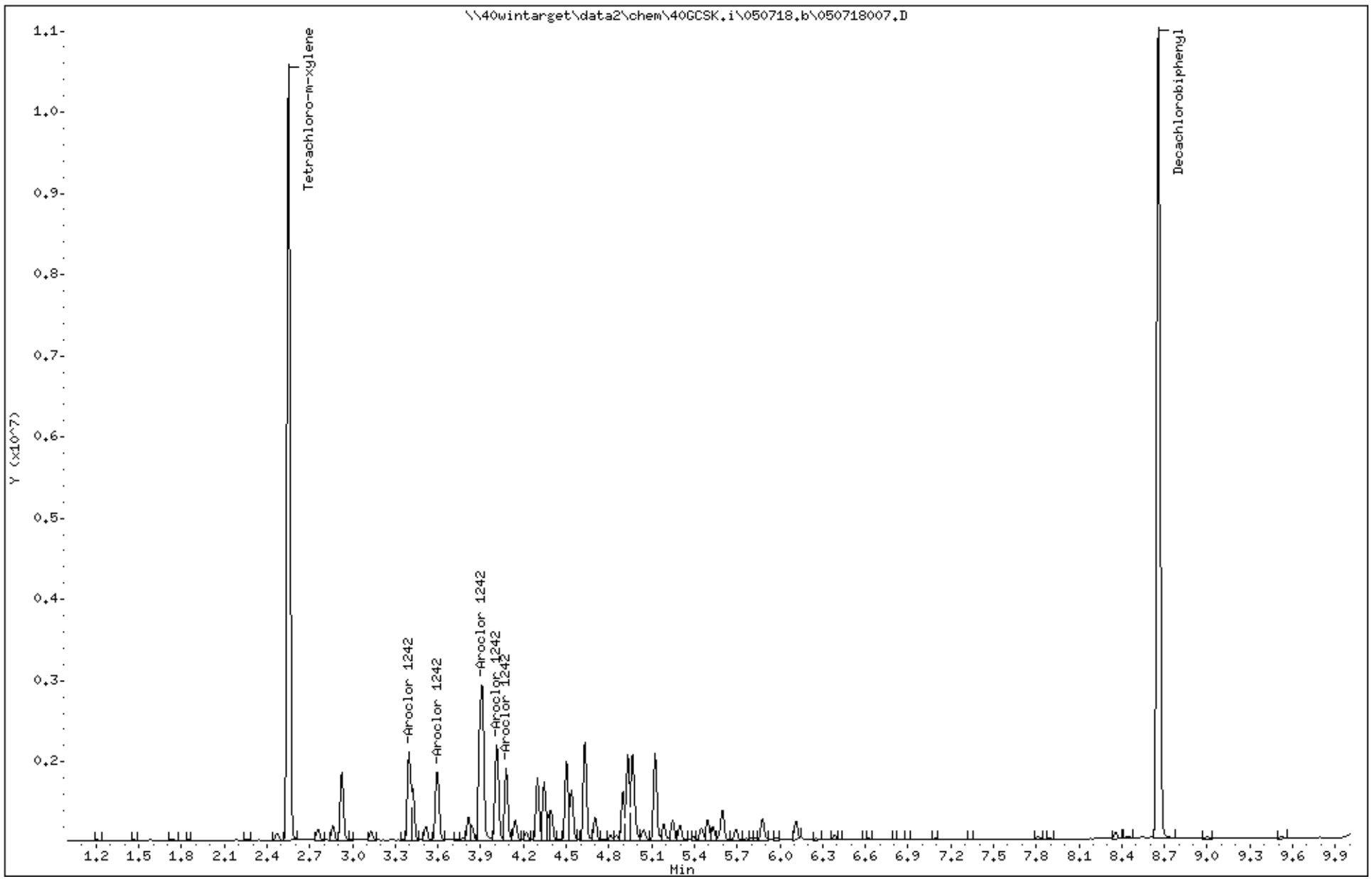
M - Compound response manually integrated.

Review Codes Legend

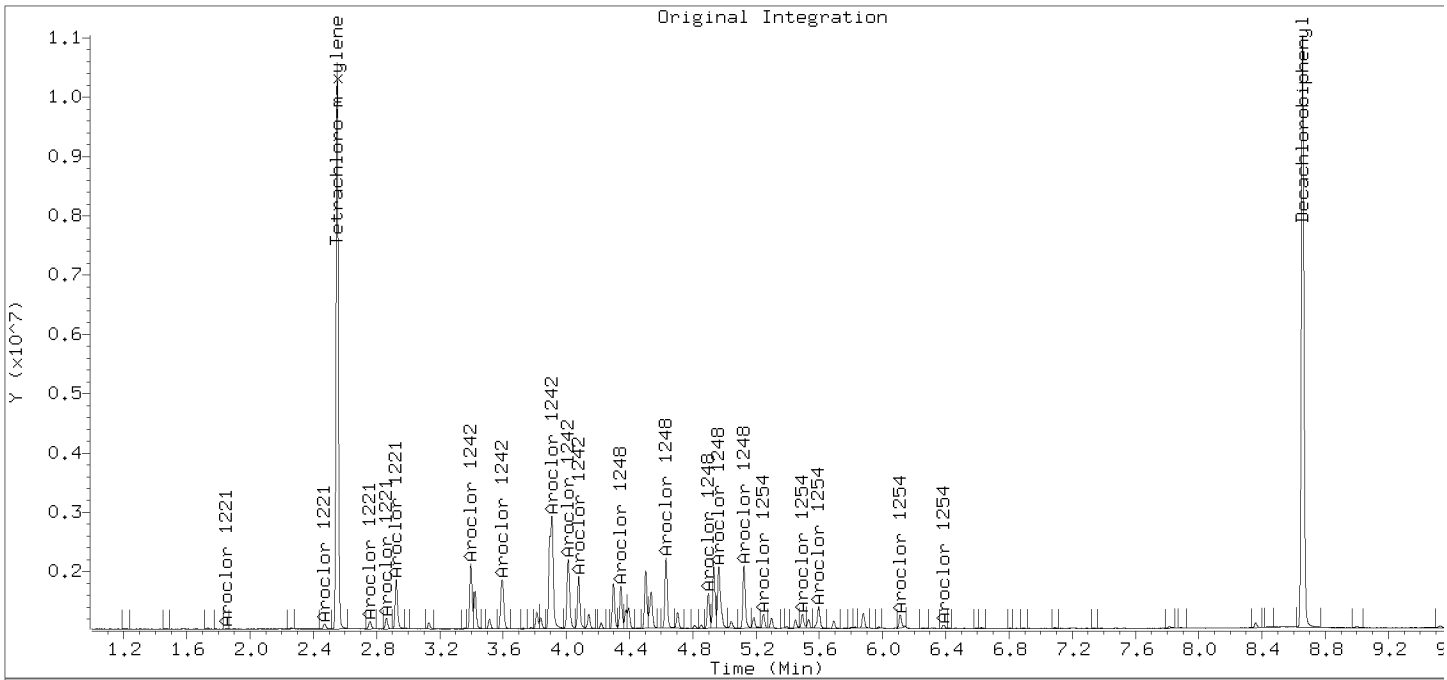
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

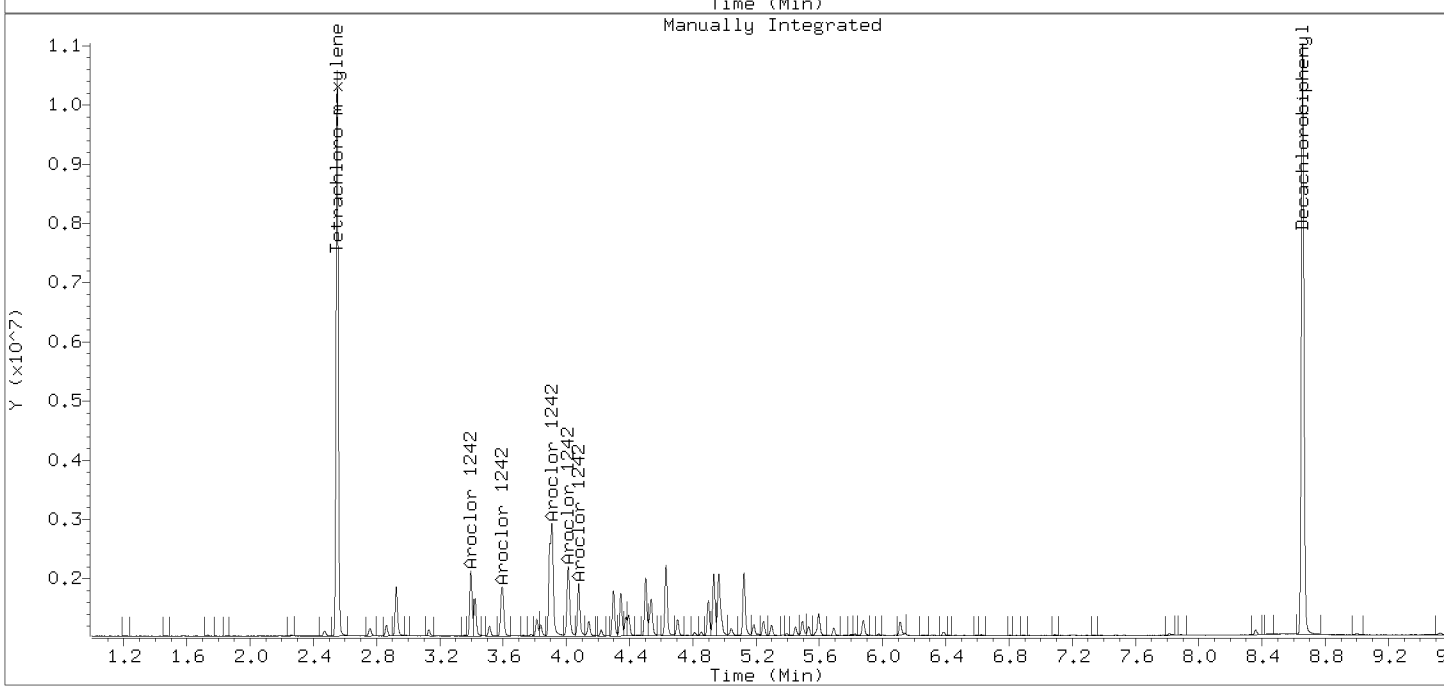
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718007.D
Date : 07-MAY-2018 14:54
Client ID: MBLCS
Sample Info: 1681429,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718007.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 14:54 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681429





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1145209	0	
Aroclor 1016	1145209	0	
Aroclor 1016	1145209	0	
Aroclor 1016	1145209	0	
Aroclor 1016	1145209	0	
Aroclor 1221	10233	0	
Aroclor 1221	10233	0	
Aroclor 1221	10233	0	
Aroclor 1221	10233	0	
Aroclor 1221	10233	0	
Aroclor 1232	896451	0	
Aroclor 1232	896451	0	
Aroclor 1232	896451	0	
Aroclor 1232	896451	0	

Aroclor 1232	896451	0	
Aroclor 1242	1145209	1159271	BA
Aroclor 1242	1145209	1159271	BA
Aroclor 1242	1145209	1159271	BA
Aroclor 1242	1145209	1159271	BA
Aroclor 1242	1145209	1159271	BA
Aroclor 1248	744406	0	
Aroclor 1248	744406	0	
Aroclor 1248	744406	0	
Aroclor 1248	744406	0	
Aroclor 1248	744406	0	
Aroclor 1254	256844	0	
Aroclor 1254	256844	0	
Aroclor 1254	256844	0	
Aroclor 1254	256844	0	
Aroclor 1254	256844	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9319066	9319066	
Decachlorobiphenyl	11480790	11480790	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/05/2017 09:40

Matrix: Tissue SDG No.: 40158017

Date Extracted: 04/30/2018 10:28

Lab Sample ID: 1681433

Date Analyzed: 05/07/2018 19:39

Lab File ID: 050718.B\050718025.D

Initial wt/vol: 10.0261 Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK 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)	21.8	J
11097-69-1	PCB-1254 (Aroclor 1254)	20.0	J
11096-82-5	PCB-1260 (Aroclor 1260)	24.0	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718025.D
Lab Smp Id: 1681433 Client Smp ID: FD1-170829-01-GOSH-
Inj Date : 07-MAY-2018 19:39
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681433,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 25 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.026	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.043	47165	19947	0.423	0.11		
1.079	31964	23333	0.730	0.07		
1.122	31836	16656	0.523	0.07		
1.154	19741	15903	0.806	0.04		
1.181	36682	36025	0.982	0.08		
1.205	16955	16094	0.949	0.04		
1.231	26075	19242	0.738	0.06		
1.410	16477	10927	0.663	0.03		
1.462	17897	17543	0.980	0.04		
1.527	11080	9634	0.870	0.02		
1.575	10865	9708	0.894	0.02		
1.728	23663	22560	0.953	0.05		
1.822	895631	923429	1.031	2.12		
2.004	10365	12603	1.216	0.02		
2.119	21769	17600	0.808	0.05		
2.187	46363	33616	0.725	0.10		
2.230	47995	50562	1.053	0.11		
2.262	36836	23471	0.637	0.08		
2.316	9789	12242	1.251	0.02		
2.353	47315	50288	1.063	0.11		
2.379	69199	71321	1.031	0.16		
2.431	30970	25326	0.818	0.07		
2.473	98668	81302	0.824	0.23		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.549	11392863	11935603	1.048	27.65	$ 2 Tetrachloro-m-xyle
2.619	23532	18139	0.771	0.05	
2.787	11598	10821	0.933	0.02	
2.856	17683	20760	1.174	0.04	
2.926	13808	16645	1.205	0.03	
2.969	16983	13056	0.769	0.04	
3.046	51402	46870	0.912	0.12	
3.063	92086	92737	1.007	0.21	
3.093	117943	120273	1.020	0.27	
3.259	234873	227699	0.969	0.55	
3.397	23149	17082	0.738	0.05	5 Aroclor 1016
3.838	10985	10084	0.918	0.02	
3.909	129813	85036	0.655	0.30	5 Aroclor 1016
4.014	22827	16107	0.706	0.05	5 Aroclor 1016
4.077	19749	21478	1.088	0.04	5 Aroclor 1016
4.135	26210	19987	0.763	0.06	
4.297	105787	93475	0.884	0.25	
4.345	104680	95836	0.916	0.24	6 Aroclor 1248
4.375	90617	65628	0.724	0.21	
4.501	71348	62321	0.873	0.16	
4.537	38157	36490	0.956	0.09	
4.598	3897920	4099303	1.052	9.24	
4.631	103504	100145	0.968	0.24	6 Aroclor 1248
4.702	16901	14161	0.838	0.04	
4.822	15794	15979	1.012	0.03	
4.851	25585	19878	0.777	0.06	
4.897	107496	97591	0.908	0.25	6 Aroclor 1248
4.931	127170	115970	0.912	0.30	
4.964	376388	198348	0.527	0.89	6 Aroclor 1248
5.043	124473	68340	0.549	0.29	
5.083	16356	14347	0.877	0.03	
5.123	108780	100863	0.927	0.25	6 Aroclor 1248
5.138	42572	36751	0.863	0.10	
5.185	139486	112804	0.809	0.33	
5.247	284747	250757	0.881	0.67	7 Aroclor 1254
5.299	251618	208877	0.830	0.59	
5.338	16148	16661	1.032	0.03	
5.366	34243	25894	0.756	0.08	
5.399	144420	123493	0.855	0.34	
5.449	68723	61080	0.889	0.16	
5.492	135487	123835	0.914	0.32	7 Aroclor 1254
5.537	1278001	1226491	0.960	3.02	
5.595	309048	263925	0.854	0.73	7 Aroclor 1254
5.652	11575	15185	1.312	0.02	
5.659	15964	20475	1.283	0.03	
5.690	62615	40675	0.650	0.14	
5.761	107482	95001	0.884	0.25	
5.795	65264	52790	0.809	0.15	
5.827	110852	71481	0.645	0.26	
5.875	640537	537137	0.839	1.51	
5.908	164692	139953	0.850	0.39	
5.973	47522	36407	0.766	0.11	
5.989	95557	52744	0.552	0.22	
6.077	187582	149291	0.796	0.44	
6.111	236471	211659	0.895	0.56	7 Aroclor 1254
6.140	780800	677241	0.867	1.85	
6.254	182260	101169	0.555	0.43	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.326	179496	102402	0.570	0.42	
6.384	810302	708666	0.875	1.92	8 Aroclor 1260
6.418	101055	88443	0.875	0.23	
6.458	39929	30534	0.765	0.09	
6.517	86684	52668	0.608	0.20	
6.595	256008	226654	0.885	0.60	
6.624	158447	148907	0.940	0.37	
6.647	115070	107682	0.936	0.27	
6.691	29013	26899	0.927	0.06	
6.727	34626	32324	0.934	0.08	
6.748	57275	37075	0.647	0.13	
6.804	176857	130157	0.736	0.41	
6.845	169644	124716	0.735	0.40	
6.887	184399	135721	0.736	0.43	
6.927	88986	57749	0.649	0.21	
7.030	257100	188544	0.733	0.60	
7.089	484360	406670	0.840	1.14	8 Aroclor 1260
7.187	85981	55223	0.642	0.20	
7.205	90432	50886	0.563	0.21	
7.268	89002	40487	0.455	0.21	
7.335	198944	169067	0.850	0.47	8 Aroclor 1260
7.368	136233	86649	0.636	0.32	
7.422	84581	51551	0.609	0.20	
7.476	77352	83877	1.084	0.18	
7.527	139765	112052	0.802	0.33	8 Aroclor 1260
7.568	99573	55048	0.553	0.23	
7.606	72602	36217	0.499	0.17	
7.665	8055	11521	1.430	0.01	
7.689	52723	32320	0.613	0.12	
7.717	85776	41754	0.487	0.20	
7.782	91933	69853	0.760	0.21	
7.813	54585	43686	0.800	0.12	
7.849	53675	39483	0.736	0.12	
7.898	70440	36541	0.519	0.16	
7.957	60173	40763	0.677	0.14	
7.985	134593	97709	0.726	0.31	8 Aroclor 1260
8.039	96935	61964	0.639	0.22	
8.137	20877	17013	0.815	0.04	
8.223	24829	15946	0.642	0.05	
8.359	135546	112097	0.827	0.32	
8.403	21552	19314	0.896	0.05	
8.461	156318	99521	0.637	0.37	
8.533	63076	40602	0.644	0.14	
8.565	56894	40544	0.713	0.13	
8.657	11310862	9858256	0.872	26.81	$ 12 Decachlorobiphenyl
8.723	58429	46006	0.787	0.13	
8.803	18631	17406	0.934	0.04	
8.928	16474	13457	0.817	0.03	
9.001	30084	19536	0.649	0.07	
9.141	17136	13220	0.771	0.04	
9.253	586213	533439	0.910	1.38	
9.297	33528	23174	0.691	0.07	
9.526	40269	26227	0.651	0.09	
9.564	21557	16140	0.749	0.05	
	42180305	38776520		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718025.D
Lab Smp Id: 1681433 Client Smp ID: FD1-170829-01-GOSH-
Inj Date : 07-MAY-2018 19:39
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681433,
Misc Info : 17750,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 10-May-2018 13:59 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 25 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	10.026	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			
2.549	2.549	0.000	11392863	0.09459	47			

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3 Aroclor 1242					CAS #: 53469-21-9			

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

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4 Aroclor 1232					CAS #: 1114-16-5			

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

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Qualifier signal(s) failed ratio test.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	104679	0.04388	22	0.00- 20.00	100.00(M)	CO
4.630	4.630	0.000	103504	0.02437	12	0.00- 20.00	98.88	CO
4.897	4.898	-0.001	107495	0.05277	26	0.00- 20.00	102.69	CO
4.964	4.963	0.001	376388	0.06872	34	0.00- 20.00	359.56	CO
5.123	5.123	0.000	108780	0.02875	14	0.00- 20.00	103.92	CO
Average of Peak Concentrations =					22			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	284747	0.05049	25	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	135487	0.02905	14	0.00- 20.00	47.58	BA
5.594	5.596	-0.002	309048	0.03610	18	0.00- 20.00	108.53	BA
6.111	6.113	-0.002	236470	0.04451	22	0.00- 20.00	83.05	BA
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					20			
8 Aroclor 1260					CAS #: 11096-82-5			
6.384	6.387	-0.003	810302	0.08095	40	0.00- 20.00	100.00(M)	BA
7.089	7.090	-0.001	484360	0.04115	20	0.00- 20.00	59.78	BA
7.335	7.338	-0.003	198944	0.03517	18	0.00- 20.00	24.55	BA
7.527	7.529	-0.002	139765	0.04088	20	0.00- 20.00	17.25	BA
7.984	7.987	-0.003	134593	0.04250	21	0.00- 20.00	16.61	BA
Average of Peak Concentrations =					24			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	11310862	0.08492	42			

QC Flag Legend

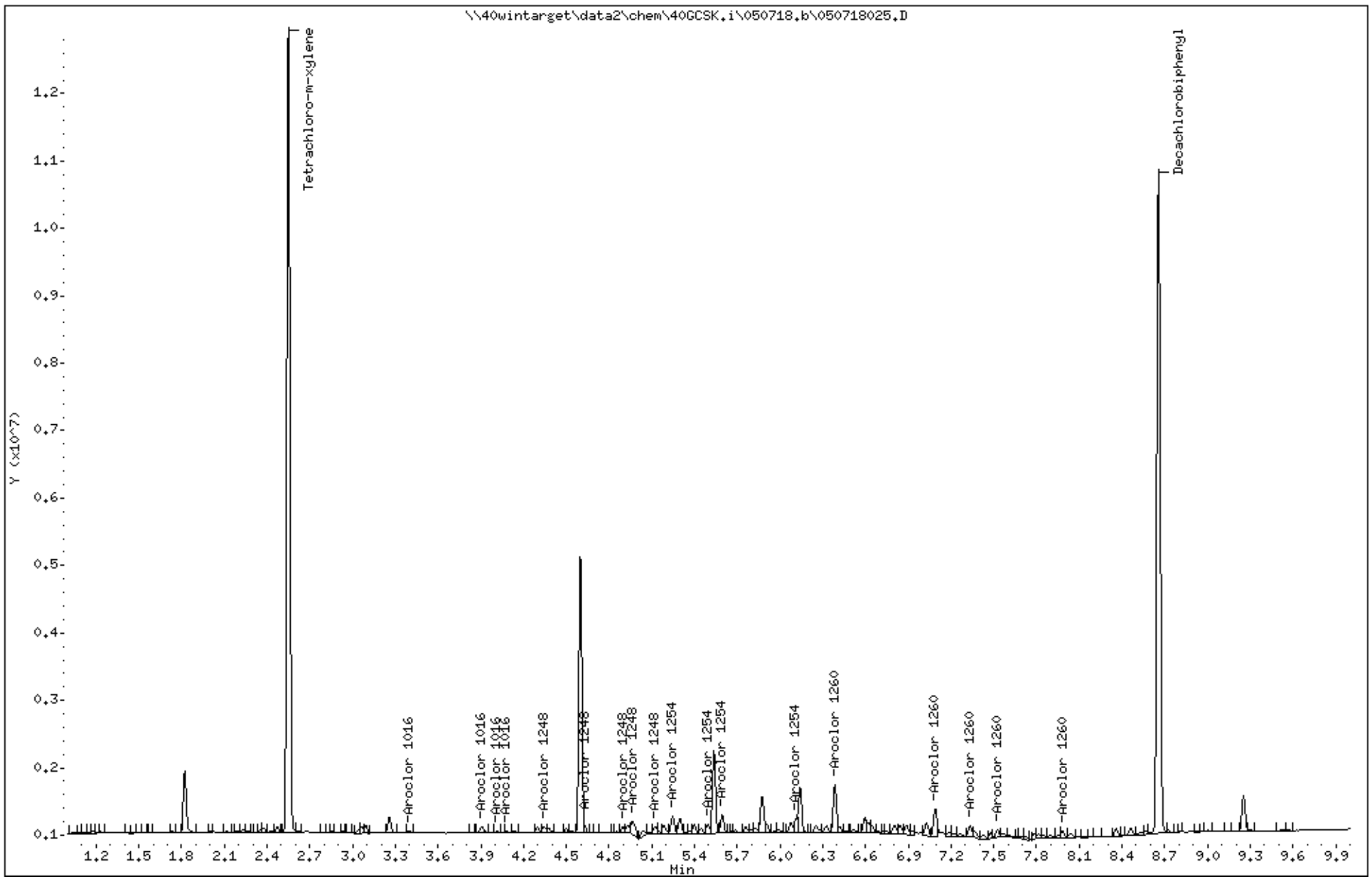
M - Compound response manually integrated.

Review Codes Legend

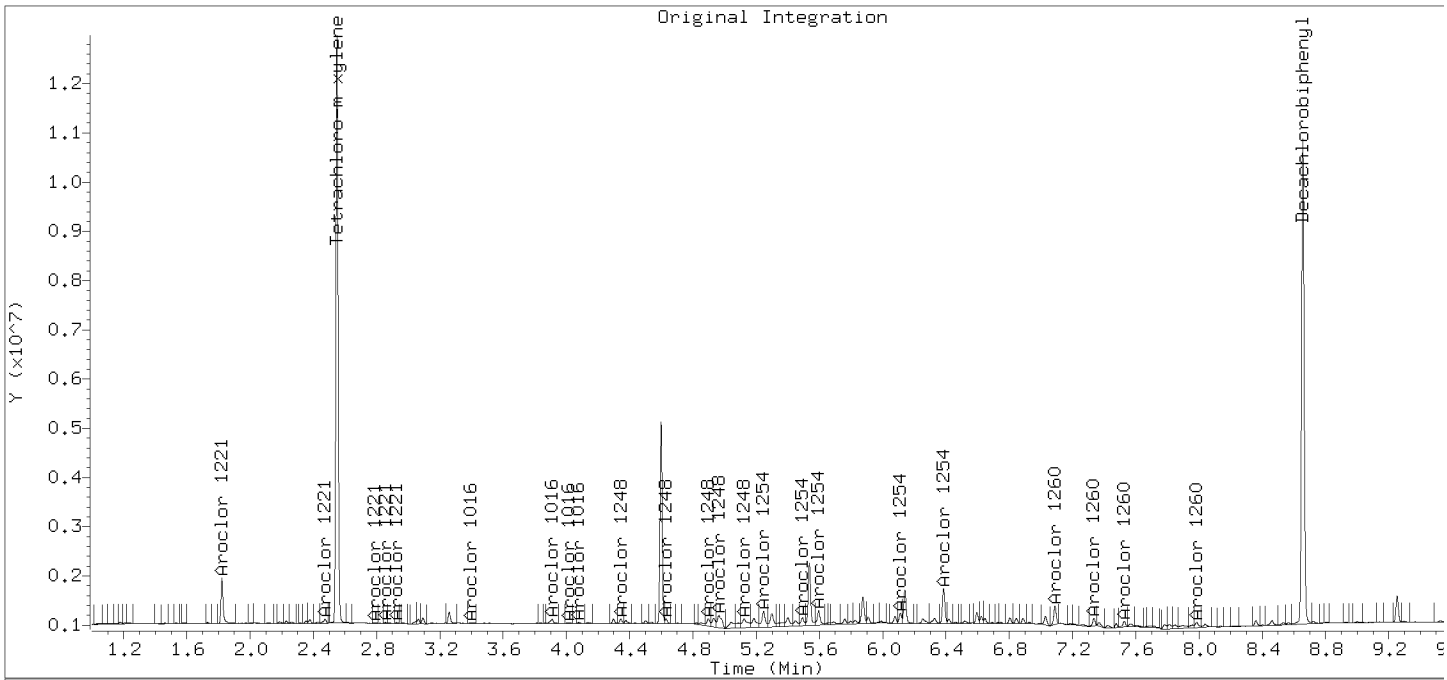
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

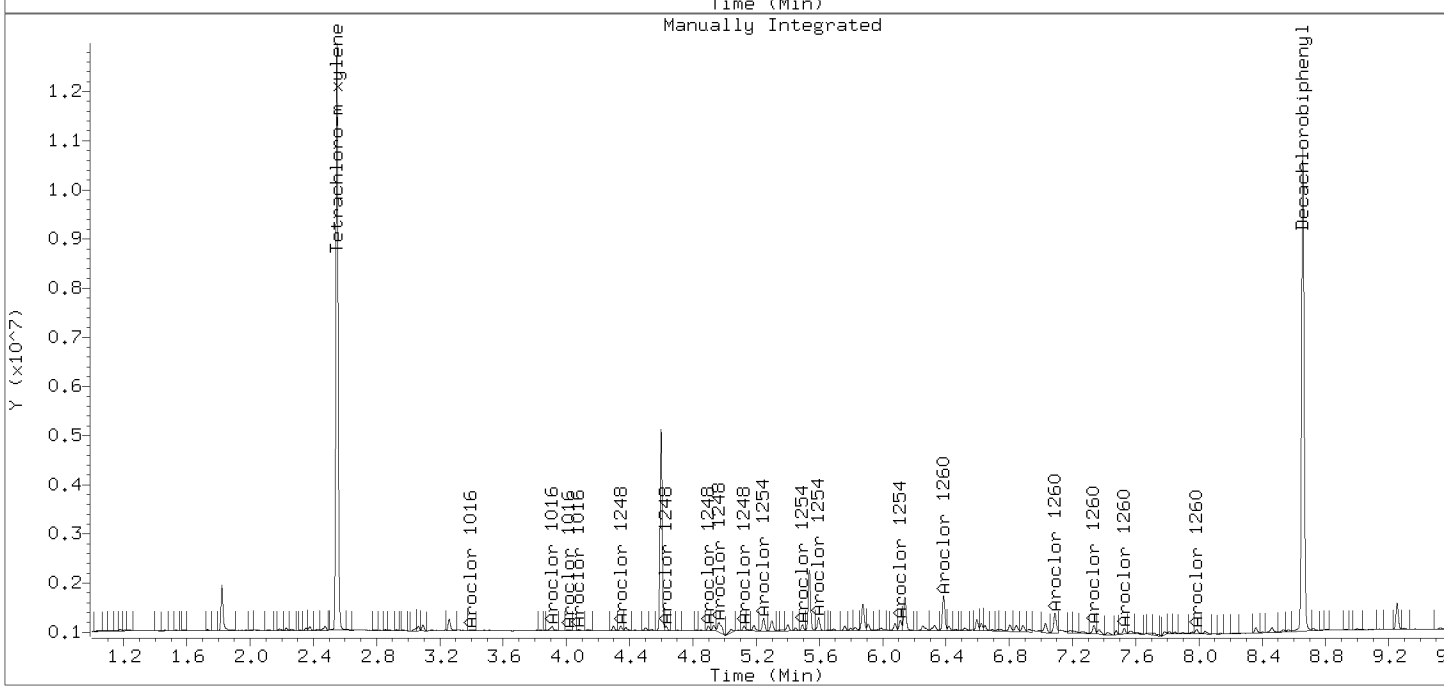
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718025.D
Date : 07-MAY-2018 19:39
Client ID: FD1-170829-01-GOSH-
Sample Info: 1681433,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 19:39 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681433





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	895630	0	
Aroclor 1221	895630	0	
Aroclor 1221	895630	0	
Aroclor 1221	895630	0	
Aroclor 1221	895630	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	93384	104679	CO
Aroclor 1248	93384	104679	CO
Aroclor 1248	93384	104679	CO
Aroclor 1248	93384	104679	CO
Aroclor 1248	93384	104679	CO
Aroclor 1254	514389	284747	BA
Aroclor 1254	514389	284747	BA
Aroclor 1254	514389	284747	BA
Aroclor 1254	514389	284747	BA
Aroclor 1254	514389	284747	BA
Aroclor 1260	793587	810302	BA
Aroclor 1260	793587	810302	BA
Aroclor 1260	793587	810302	BA
Aroclor 1260	793587	810302	BA
Aroclor 1260	793587	810302	BA
Tetrachloro-m-xylene	11392863	11392863	
Decachlorobiphenyl	11310862	11310862	

==========

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.: 40158017

Date Extracted: 05/01/2018 07:23

Lab Sample ID: 1681906

Date Analyzed: 05/07/2018 21:14

Lab File ID: 050718.B\050718031.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK 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\40GCSK.i\050718.b\050718031.D
Lab Smp Id: 1681906 Client Smp ID: MB
Inj Date : 07-MAY-2018 21:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681906,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 31 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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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
1.203	12461	11000	0.883	0.05		
1.576	13884	10142	0.730	0.06		
1.731	23383	21564	0.922	0.10		
2.550	9251838	9365012	1.012	42.72	$ 2 Tetrachloro-m-xylene	
2.858	21077	18797	0.892	0.09		
2.928	23578	17427	0.739	0.10		
2.990	11632	8318	0.715	0.05		
4.132	38210	35506	0.929	0.17		
4.319	17446	15451	0.886	0.08		
5.427	11569	13890	1.201	0.05		
5.465	15288	12830	0.839	0.07		
6.277	13077	10588	0.810	0.06		
7.816	43520	32154	0.739	0.20		
7.885	23206	20312	0.875	0.10		
8.361	107370	91475	0.852	0.49		
8.442	10506	10807	1.029	0.04		
8.657	11994045	10471977	0.873	55.46	$ 12 Decachlorobiphenyl	
9.525	24500	17606	0.719	0.11		
	21656590	20184856		100.000		

Total unknown % area = 1.8

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718031.D
Lab Smp Id: 1681906 Client Smp ID: MB
Inj Date : 07-MAY-2018 21:14
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681906,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 31 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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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

2.549	2.549	0.000	9251837	0.07682	38			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

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

5 Aroclor 1016 CAS #: 12674-11-2

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

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6 Aroclor 1248 CAS #: 12672-29-6

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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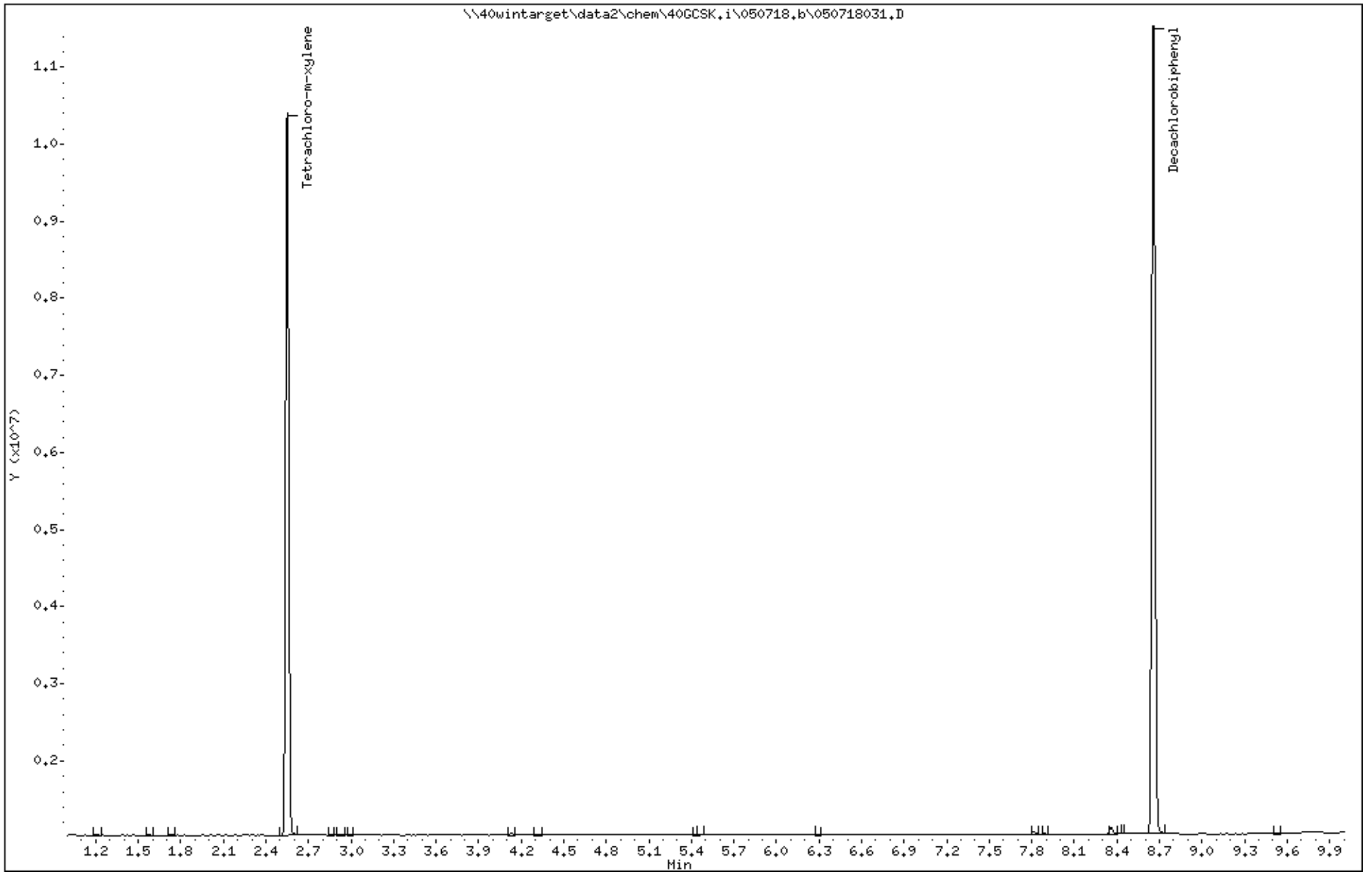
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.656	8.657	-0.001	11994044	0.09005	45			

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718031.D
Date : 07-MAY-2018 21:14
Client ID: MB
Instrument: 40GCSK.i
Sample Info: 1681906,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718031.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 21:14 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681906

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	9251837	9251837	
Decachlorobiphenyl	11994044	11994044	

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.: 40158017

Date Extracted: 05/01/2018 07:23

Lab Sample ID: 1681907

Date Analyzed: 05/07/2018 21:30

Lab File ID: 050718.B\050718032.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK 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)	240	
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\40GCSK.i\050718.b\050718032.D
Lab Smp Id: 1681907 Client Smp ID: MBLCS
Inj Date : 07-MAY-2018 21:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681907,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 32 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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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
1.204	25368	23610	0.931	0.05		
1.574	10386	9610	0.925	0.02		
1.731	24406	21766	0.892	0.05		
1.855	13737	12928	0.941	0.02		
2.471	105106	83696	0.796	0.21		
2.549	9629482	9864810	1.024	20.13	$ 2 Tetrachloro-m-xylene	
2.757	153768	124743	0.811	0.32		
2.860	199876	184186	0.922	0.41		
2.922	895722	821428	0.917	1.87		
3.086	12203	6660	0.546	0.02		
3.130	112811	106366	0.943	0.23		
3.358	20508	17002	0.829	0.04		
3.395	1165874	1093070	0.938	2.43	3 Aroclor 1242	BA
3.422	702899	638339	0.908	1.46		
3.514	196070	167215	0.853	0.40		
3.594	1166527	853293	0.731	2.43	3 Aroclor 1242	BA
3.727	19698	13558	0.688	0.04		
3.777	33202	30372	0.915	0.06		
3.812	304577	294027	0.965	0.63		
3.838	209445	185026	0.883	0.43		
3.908	3505353	1969681	0.562	7.32	3 Aroclor 1242	BA
4.011	1506656	1219210	0.809	3.14	3 Aroclor 1242	BA
4.077	993714	914463	0.920	2.07	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.142	297630	242775	0.816	0.62	
4.221	116094	96855	0.834	0.24	
4.297	827693	751100	0.907	1.73	
4.344	771142	737648	0.957	1.61	
4.376	314724	325309	1.034	0.65	
4.393	391968	351168	0.896	0.81	
4.454	30106	19901	0.661	0.06	
4.501	1068195	1000210	0.936	2.23	
4.537	851858	618169	0.726	1.78	
4.630	1387365	1211297	0.873	2.90	
4.702	317118	284653	0.898	0.66	
4.763	23385	17706	0.757	0.04	
4.812	70950	56251	0.793	0.14	
4.851	75097	69788	0.929	0.15	
4.897	648169	619505	0.956	1.35	
4.932	1167078	1082617	0.928	2.43	
4.964	1490424	1099302	0.738	3.11	
5.042	164210	122215	0.744	0.34	
5.123	1237360	1128069	0.912	2.58	
5.184	245858	190370	0.774	0.51	
5.247	284098	247069	0.870	0.59	
5.297	209842	183595	0.875	0.43	
5.396	45366	40427	0.891	0.09	
5.427	18891	22875	1.211	0.03	
5.449	188125	156821	0.834	0.39	
5.493	295888	256750	0.868	0.61	
5.531	189217	164210	0.868	0.39	
5.595	497924	383721	0.771	1.04	
5.691	146446	134446	0.918	0.30	
5.766	20780	16246	0.782	0.04	
5.802	26523	24058	0.907	0.05	
5.826	38375	33811	0.881	0.08	
5.876	323983	278531	0.860	0.67	
5.974	49770	31045	0.624	0.10	
6.111	325933	255144	0.783	0.68	
6.256	19007	15623	0.822	0.03	
6.325	10187	9391	0.922	0.02	
6.385	64636	57067	0.883	0.13	
6.422	10016	10357	1.034	0.02	
6.624	28672	20106	0.701	0.05	
6.804	15288	13444	0.879	0.03	
6.888	19409	14274	0.735	0.04	
7.089	21608	20406	0.944	0.04	
7.196	12780	10083	0.789	0.02	
7.813	24811	28299	1.141	0.05	
7.888	28804	18722	0.650	0.06	
8.360	106815	90409	0.846	0.22	
8.443	19206	13965	0.727	0.04	
8.605	13452	8574	0.637	0.02	
8.657	12211206	10694130	0.876	25.89	$ 12 Decachlorobiphenyl
8.998	29210	19473	0.667	0.06	
9.524	36061	23341	0.647	0.07	
	47836145	41976380		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718032.D
Lab Smp Id: 1681907 Client Smp ID: MBLCS
Inj Date : 07-MAY-2018 21:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681907,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 32 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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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			
2.549	2.549	0.000	9629482	0.07995	40			
3 Aroclor 1242					CAS #: 53469-21-9			
3.395	3.396	-0.001	1165874	0.48169	240	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1166526	0.47396	240	0.00- 20.00	100.06	BA
3.907	3.909	-0.002	3505352	0.48313	240	0.00- 20.00	300.66	BA
4.011	4.011	0.000	1506656	0.48349	240	0.00- 20.00	129.23	BA
4.077	4.078	-0.001	993713	0.47471	240	0.00- 20.00	85.23	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

8.656	8.657	-0.001	12211206	0.09168	46	

QC Flag Legend

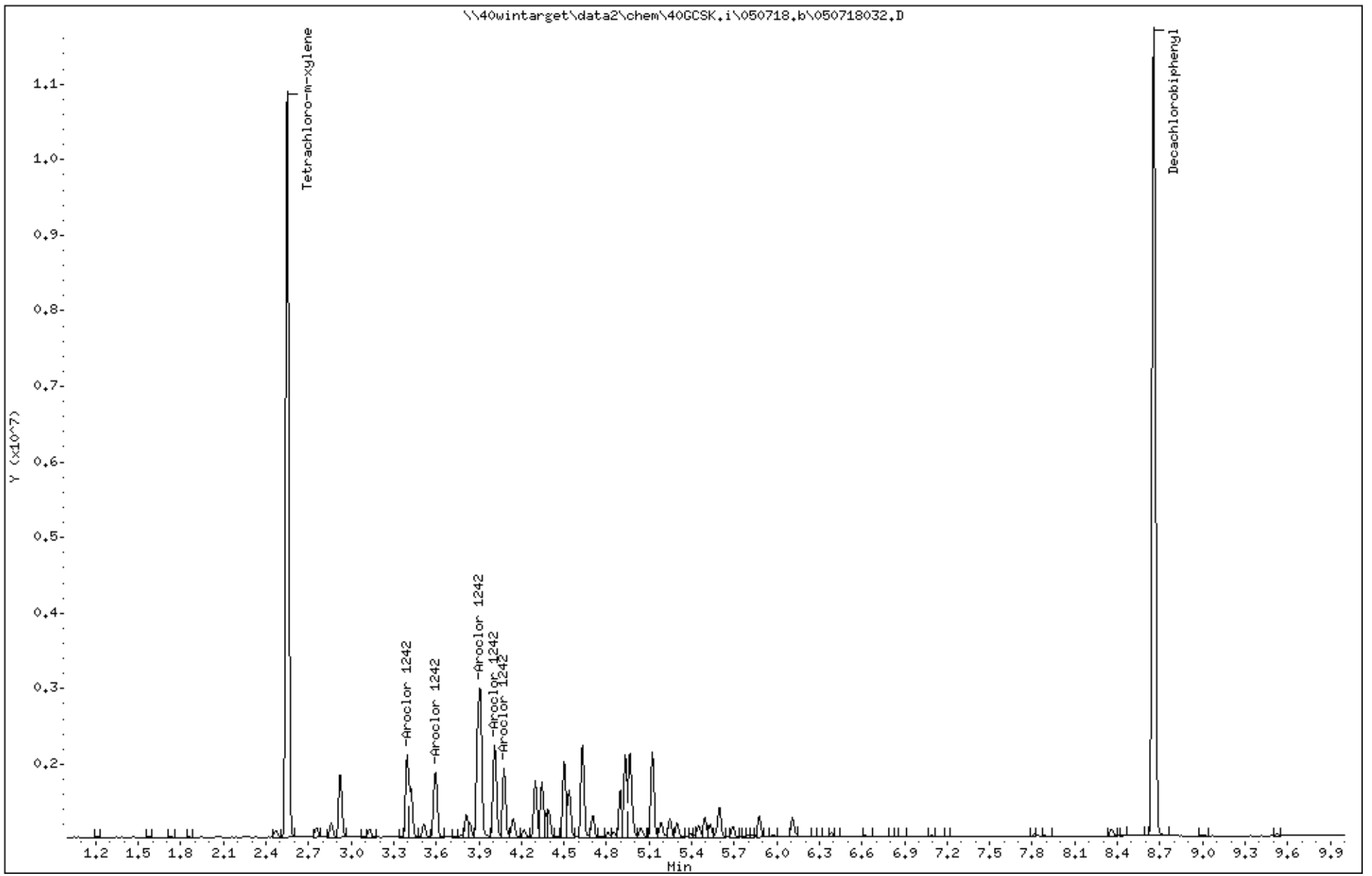
M - Compound response manually integrated.

Review Codes Legend

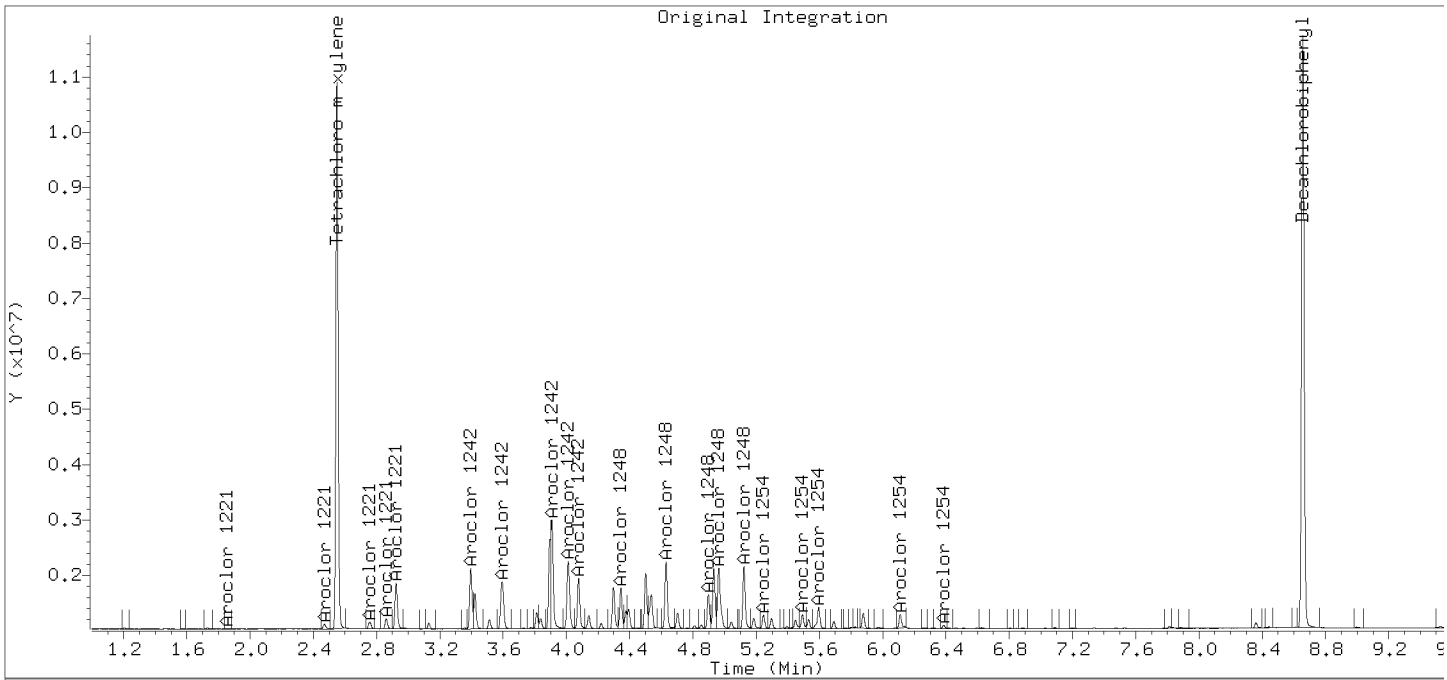
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

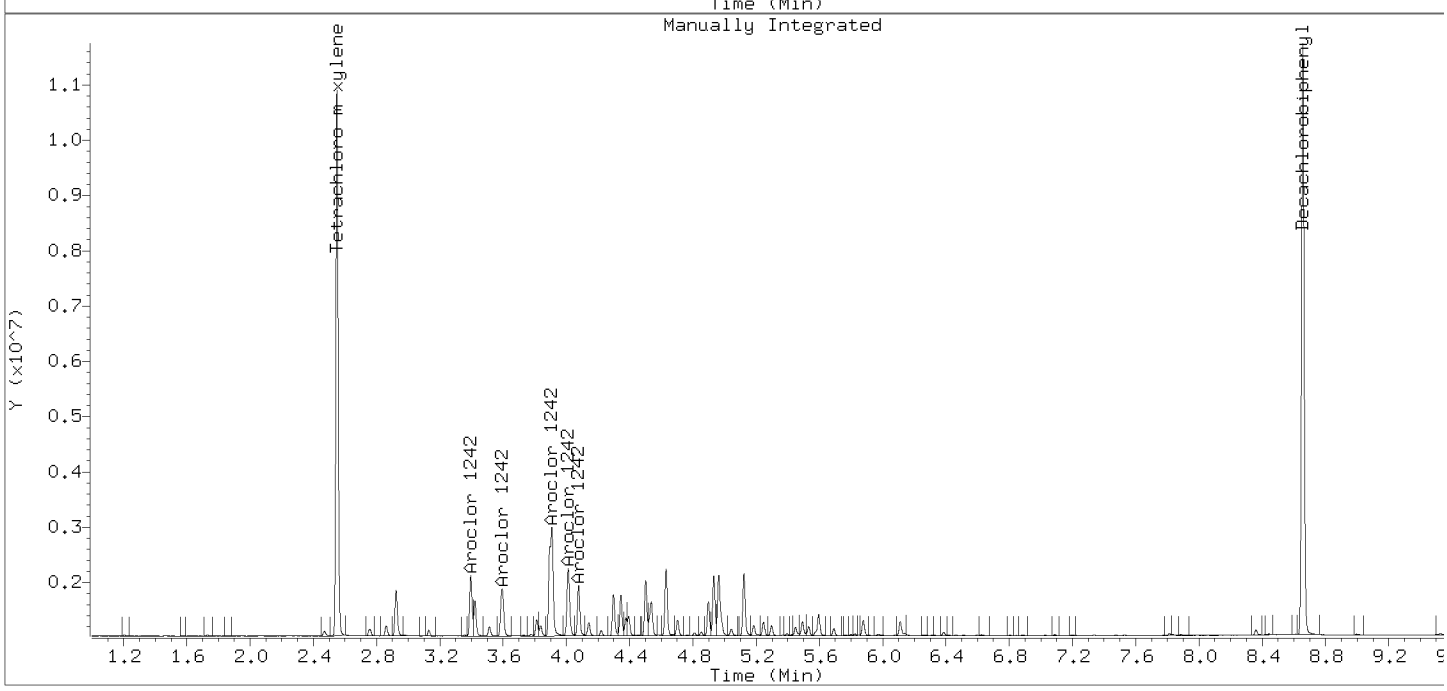
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718032.D
Date : 07-MAY-2018 21:30
Client ID: MBLCS
Sample Info: 1681907,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718032.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAY-2018 21:30 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681907





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1160634	0	
Aroclor 1016	1160634	0	
Aroclor 1016	1160634	0	
Aroclor 1016	1160634	0	
Aroclor 1016	1160634	0	
Aroclor 1221	13736	0	
Aroclor 1221	13736	0	
Aroclor 1221	13736	0	
Aroclor 1221	13736	0	
Aroclor 1221	13736	0	
Aroclor 1232	895721	0	
Aroclor 1232	895721	0	
Aroclor 1232	895721	0	
Aroclor 1232	895721	0	

Aroclor 1232	895721	0	
Aroclor 1242	1160634	1165874	BA
Aroclor 1242	1160634	1165874	BA
Aroclor 1242	1160634	1165874	BA
Aroclor 1242	1160634	1165874	BA
Aroclor 1242	1160634	1165874	BA
Aroclor 1248	754157	0	
Aroclor 1248	754157	0	
Aroclor 1248	754157	0	
Aroclor 1248	754157	0	
Aroclor 1248	754157	0	
Aroclor 1254	260061	0	
Aroclor 1254	260061	0	
Aroclor 1254	260061	0	
Aroclor 1254	260061	0	
Aroclor 1254	260061	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9629482	9629482	
Decachlorobiphenyl	12211206	12211206	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/05/2017 09:40

Matrix: Tissue SDG No.: 40158017

Date Extracted: 05/01/2018 07:23

Lab Sample ID: 1681910

Date Analyzed: 05/08/2018 01:28

Lab File ID: 050718.B\050718047.D

Initial wt/vol: 9.996 g Final wt/vol: 5 mL Dilution: 20

Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<228	U
11104-28-2	PCB-1221 (Aroclor 1221)	<228	U
11141-16-5	PCB-1232 (Aroclor 1232)	<228	U
53469-21-9	PCB-1242 (Aroclor 1242)	<228	U
12672-29-6	PCB-1248 (Aroclor 1248)	3260	
11097-69-1	PCB-1254 (Aroclor 1254)	1840	
11096-82-5	PCB-1260 (Aroclor 1260)	292	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718047.D
Lab Smp Id: 1681910 Client Smp ID: SW1-170829-01-FALLF
Inj Date : 08-MAY-2018 01:28
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681910 x20,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 47 QC Sample: FIELDDUP
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.996	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.477	40102	31759	0.792	0.13		
2.549	561223	576089	1.026	1.93	$ 2 Tetrachloro-m-xylene	
3.132	47822	45883	0.959	0.16		
3.397	33158	31323	0.945	0.11	5 Aroclor 1016	BA
3.421	27119	22522	0.830	0.09		
3.513	90679	82950	0.915	0.31		
3.599	70219	71521	1.019	0.24	5 Aroclor 1016	BA
3.725	16516	14020	0.849	0.05		
3.813	102388	96954	0.947	0.35		
3.837	39810	35796	0.899	0.13		
3.897	190386	220150	1.156	0.65		
3.909	267860	244132	0.911	0.92	5 Aroclor 1016	BA
4.021	74933	57588	0.769	0.25	5 Aroclor 1016	BA
4.077	80594	66013	0.819	0.27	5 Aroclor 1016	BA
4.142	60443	53848	0.891	0.20		
4.298	1182849	1111557	0.940	4.08		
4.345	1239248	1182939	0.955	4.28	6 Aroclor 1248	BA
4.376	1124821	951403	0.846	3.88		
4.502	638322	610982	0.957	2.20		
4.537	489971	440112	0.898	1.69		
4.630	793943	745310	0.939	2.74	6 Aroclor 1248	BA
4.673	67468	57915	0.858	0.23		
4.704	133835	114667	0.857	0.46		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.764	67176	56432	0.840	0.23	
4.818	89114	59288	0.665	0.30	
4.853	158171	148257	0.937	0.54	
4.898	707698	675260	0.954	2.44	6 Aroclor 1248
4.933	646423	629350	0.974	2.23	
4.964	1967377	1205366	0.613	7.20	6 Aroclor 1248
5.043	356332	292571	0.821	1.23	
5.123	811914	737436	0.908	2.80	6 Aroclor 1248
5.186	603858	541050	0.896	2.08	
5.246	1211117	1058909	0.874	4.18	7 Aroclor 1254
5.297	893776	798606	0.894	3.08	
5.369	90234	79486	0.881	0.31	
5.397	235387	187474	0.796	0.81	
5.449	436757	399168	0.914	1.50	
5.493	831051	752444	0.905	2.87	7 Aroclor 1254
5.533	688007	595614	0.866	2.37	
5.572	63239	67937	1.074	0.21	
5.595	1579709	1411900	0.894	5.45	7 Aroclor 1254
5.660	52931	45463	0.859	0.18	
5.692	229457	203045	0.885	0.79	
5.761	231123	214521	0.928	0.79	
5.798	179481	145152	0.809	0.62	
5.828	279189	194802	0.698	0.96	
5.876	1777548	1419047	0.798	6.14	
5.971	170023	108977	0.641	0.58	
6.016	97820	78732	0.805	0.33	
6.078	233612	218763	0.936	0.80	
6.112	877529	777623	0.886	3.03	7 Aroclor 1254
6.141	886773	749482	0.845	3.06	
6.256	206524	148182	0.718	0.71	
6.314	76464	78779	1.030	0.26	
6.329	116872	98021	0.839	0.40	
6.387	1283933	1071658	0.835	4.43	7 Aroclor 1254
6.419	127619	114871	0.900	0.44	
6.463	69627	57747	0.829	0.24	
6.518	107944	79964	0.741	0.37	
6.595	401229	362179	0.903	1.38	
6.623	294430	220377	0.748	1.01	
6.692	48146	43277	0.899	0.16	
6.748	24663	17398	0.705	0.08	
6.805	107905	94813	0.879	0.37	
6.845	107504	96797	0.900	0.37	
6.888	164109	148955	0.908	0.56	
6.925	72790	57697	0.793	0.25	
7.028	62105	51521	0.830	0.21	
7.089	268869	248289	0.923	0.92	8 Aroclor 1260
7.120	36150	31601	0.874	0.12	
7.203	21985	16016	0.729	0.07	
7.338	153069	138247	0.903	0.52	8 Aroclor 1260
7.368	59020	47482	0.805	0.20	
7.417	15159	12388	0.817	0.05	
7.474	135876	122109	0.899	0.46	
7.526	130662	101844	0.779	0.45	8 Aroclor 1260
7.636	13683	12701	0.928	0.04	
7.776	32237	28589	0.887	0.11	
7.814	38881	33186	0.854	0.13	
7.984	90548	73553	0.812	0.31	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.043	12304	8815	0.716	0.04	
8.359	75467	69319	0.919	0.26	
8.437	16329	13754	0.842	0.05	
8.657	702327	643872	0.917	2.42	$ 12 Decachlorobiphenyl
8.998	27410	20130	0.734	0.09	
9.525	18774	17269	0.920	0.06	
	28947146	25098988		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718047.D
Lab Smp Id: 1681910 Client Smp ID: SW1-170829-01-FALLF
Inj Date : 08-MAY-2018 01:28
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1681910 x20,
Misc Info : 17754,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 11-May-2018 07:54 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 47 QC Sample: FIELDDUP
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	9.996	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

2.549	2.549	0.000	561222	0.00466	47			

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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			
Qualifier signal(s) failed ratio test.								BA
6 Aroclor 1248					CAS #: 12672-29-6			
4.344	4.343	0.001	1239248	0.51952	5200	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	793942	0.18692	1900	0.00- 20.00	64.07	BA
4.897	4.898	-0.001	707697	0.34741	3500	0.00- 20.00	57.11	BA
4.963	4.963	0.000	1967377	0.35918	3600	0.00- 20.00	158.76	BA
5.123	5.123	0.000	811914	0.21461	2100	0.00- 20.00	65.52	BA
Average of Peak Concentrations =					3200			
7 Aroclor 1254					CAS #: 11097-69-1			
5.246	5.248	-0.002	1211116	0.21475	2100	0.00- 20.00	100.00(M)	CO
5.492	5.492	0.000	831050	0.17819	1800	0.00- 20.00	68.62	CO
5.595	5.596	-0.001	1579708	0.18450	1800	0.00- 20.00	130.43	CO
6.111	6.113	-0.002	877528	0.16517	1600	0.00- 20.00	72.46	CO
6.386	6.387	-0.001	1283932	0.17537	1800	0.00- 20.00	106.01	CO
Average of Peak Concentrations =					1800			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00(M)	BA
7.089	7.090	-0.001	268869	0.02284	230	0.00- 20.00	20.94	BA
7.337	7.338	-0.001	153068	0.02706	270	0.00- 20.00	11.92	BA
7.526	7.529	-0.003	130662	0.03822	380	0.00- 20.00	10.18	BA
7.984	7.987	-0.003	90547	0.02859	290	0.00- 20.00	7.05	BA
Average of Peak Concentrations =					290			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.656	8.657	-0.001	702327	0.00527	53			

QC Flag Legend

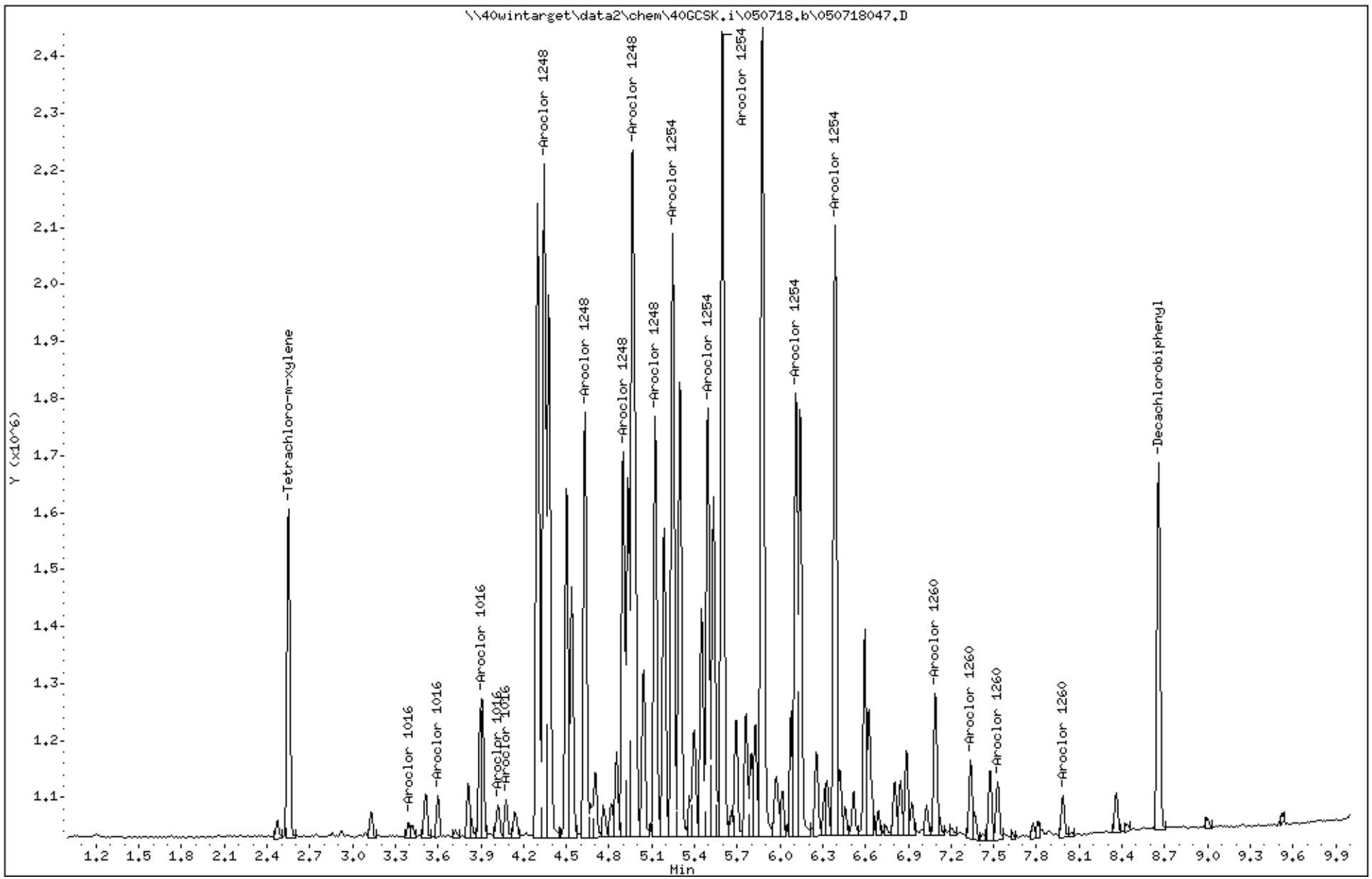
M - Compound response manually integrated.

Review Codes Legend

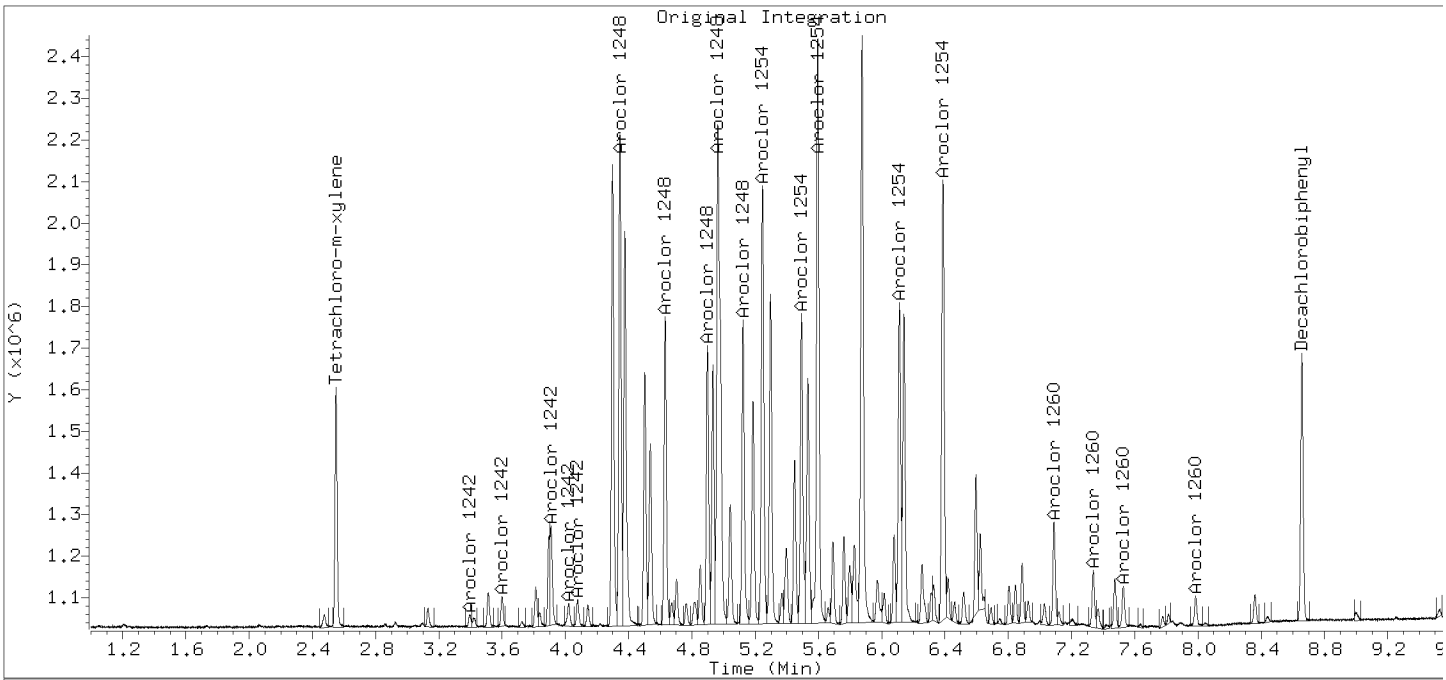
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

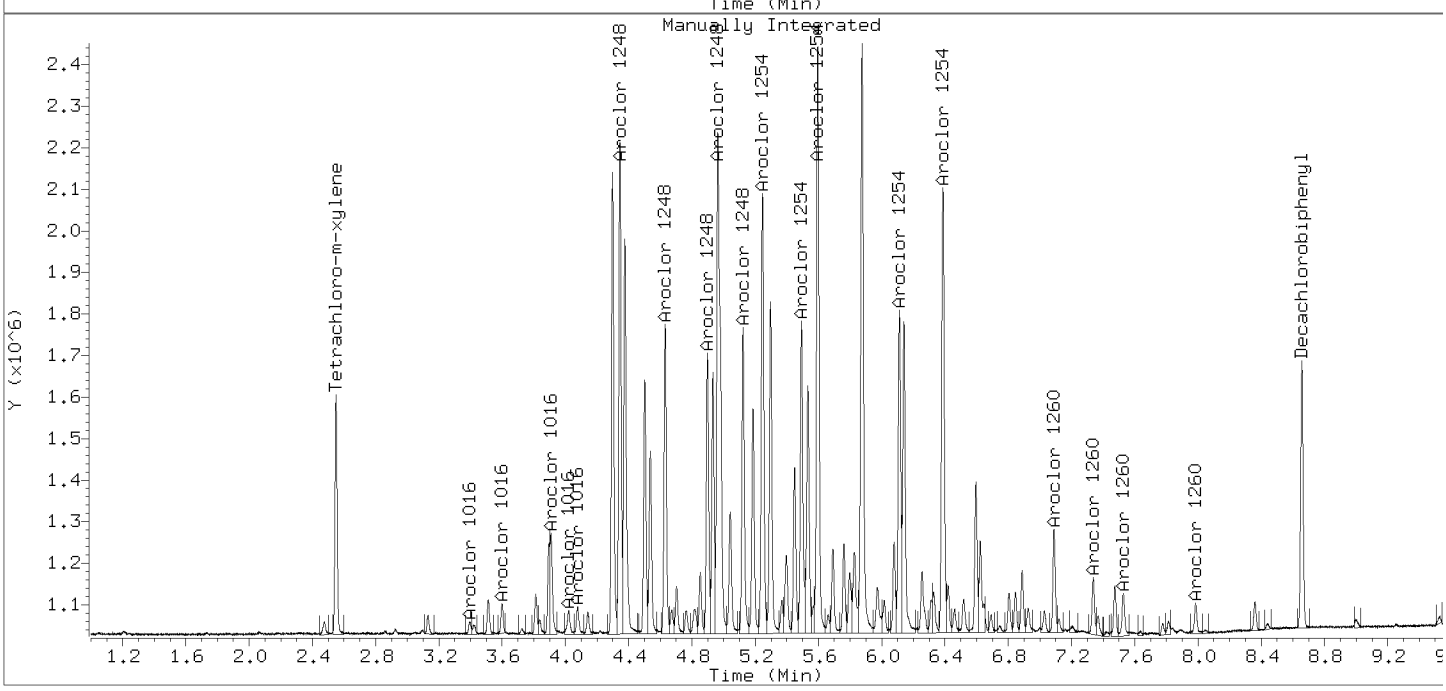
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718047.D
Date : 08-MAY-2018 01:28
Client ID: SW1-170829-01-FALLF
Sample Info: 1681910 x20,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718047.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 01:28 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1681910





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	33157	0	
Aroclor 1242	33157	0	
Aroclor 1242	33157	0	
Aroclor 1242	33157	0	
Aroclor 1242	33157	0	
Aroclor 1248	1231448	1239248	BA
Aroclor 1248	1231448	1239248	BA
Aroclor 1248	1231448	1239248	BA
Aroclor 1248	1231448	1239248	BA
Aroclor 1248	1231448	1239248	BA
Aroclor 1254	1190038	1211116	CO
Aroclor 1254	1190038	1211116	CO
Aroclor 1254	1190038	1211116	CO
Aroclor 1254	1190038	1211116	CO
Aroclor 1254	1190038	1211116	CO
Aroclor 1260	1245555	0	BA
Aroclor 1260	1245555	0	BA
Aroclor 1260	1245555	0	BA
Aroclor 1260	1245555	0	BA
Aroclor 1260	1245555	0	BA
Tetrachloro-m-xylene	561222	561222	
Decachlorobiphenyl	702327	702327	

==========

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.: 40158017

Date Extracted: 05/04/2018 07:32

Lab Sample ID: 1683452

Date Analyzed: 05/08/2018 15:07

Lab File ID: 050718.B\050718080.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK 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\40GCSK.i\050718.b\050718080.D
Lab Smp Id: 1683452 Client Smp ID: MB
Inj Date : 08-MAY-2018 15:07
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683452,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 80 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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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
2.549	9271159	9615203	1.037	44.26	$ 2 Tetrachloro-m-xylene	
2.859	17821	15554	0.873	0.08		
2.926	34614	21837	0.631	0.16		
2.987	14253	11738	0.824	0.06		
4.318	15122	10049	0.665	0.07		
4.614	10129	8516	0.841	0.04		
5.425	12413	10838	0.873	0.05		
7.814	53596	36046	0.673	0.25		
7.886	40559	23279	0.574	0.19		
8.361	102073	88035	0.862	0.48		
8.658	11341717	9920669	0.875	54.23	$ 12 Decachlorobiphenyl	
9.524	29123	18962	0.651	0.13		
	20942579	19780726		100.000		

Total unknown % area = 1.5

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718080.D
Lab Smp Id: 1683452 Client Smp ID: MB
Inj Date : 08-MAY-2018 15:07
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683452,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 80 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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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		
2.549	2.549	0.000	9271159	0.07698	38			

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3 Aroclor 1242 CAS #: 53469-21-9

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

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4 Aroclor 1232 CAS #: 1114-16-5

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

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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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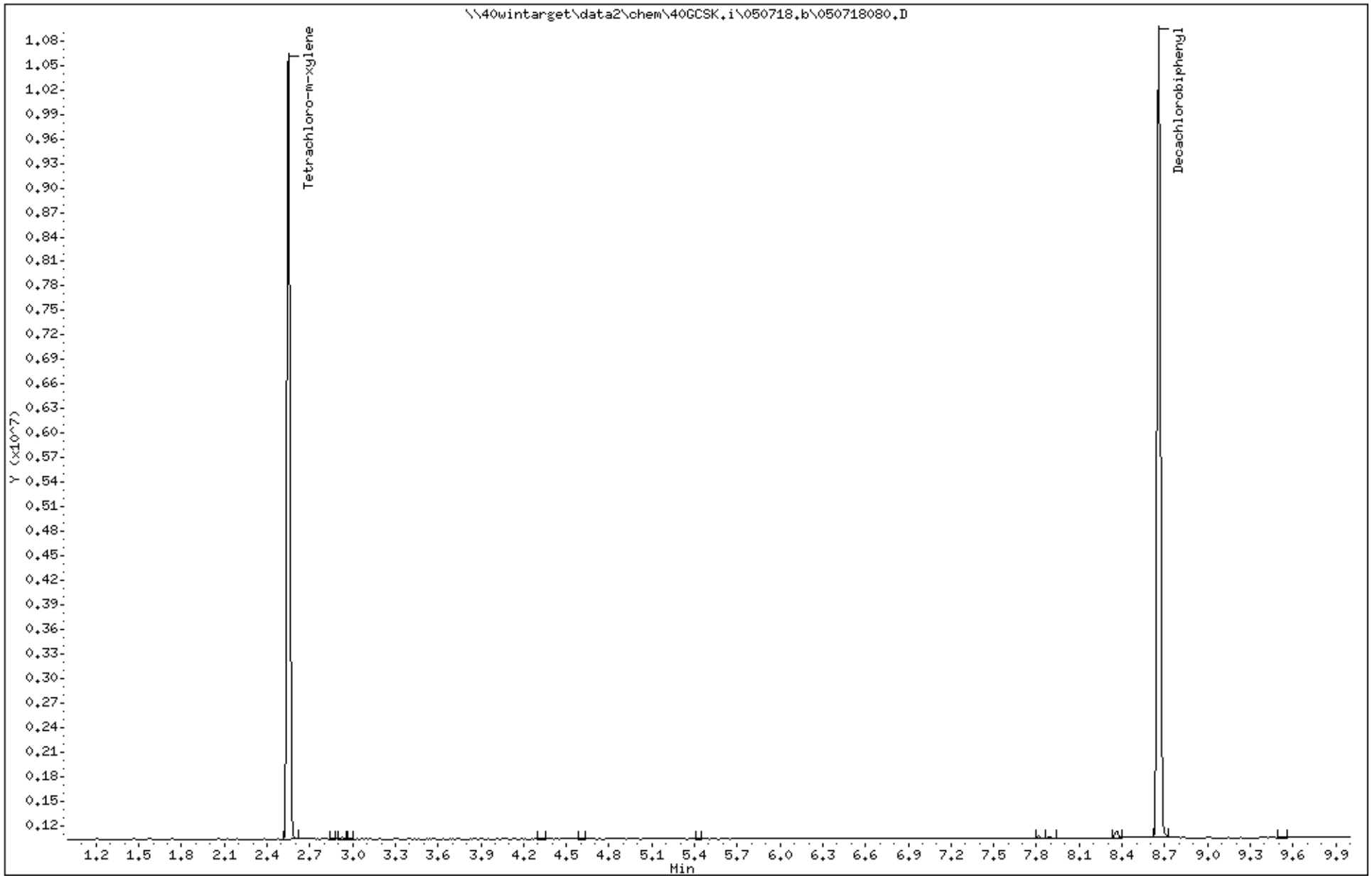
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.657	8.657	0.000	11341717	0.08515		42		

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718080.D
Date : 08-MAY-2018 15:07
Client ID: MB
Instrument: 40GCSK.i
Sample Info: 1683452,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718080.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 15:07 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1683452

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	9271159	9271159	
Decachlorobiphenyl	11341717	11341717	

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.: 40158017

Date Extracted: 05/04/2018 07:32

Lab Sample ID: 1683453

Date Analyzed: 05/08/2018 15:23

Lab File ID: 050718.B\050718081.D

Initial wt/vol: 10 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK 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)	256	
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\40GCSK.i\050718.b\050718081.D
Lab Smp Id: 1683453 Client Smp ID: MBLCS
Inj Date : 08-MAY-2018 15:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683453,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 81 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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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
1.205	17488	19272	1.102	0.03		
1.460	13485	11281	0.837	0.02		
1.730	25002	22999	0.920	0.04		
1.854	15634	15640	1.000	0.03		
2.061	11435	10384	0.908	0.02		
2.471	121621	96932	0.797	0.23		
2.550	10873002	11173923	1.028	21.09	$ 2 Tetrachloro-m-xylene	
2.756	179164	146178	0.816	0.34		
2.862	226155	211221	0.934	0.43		
2.924	1016433	937188	0.922	1.97		
2.980	23691	15924	0.672	0.04		
3.131	123854	118232	0.955	0.24		
3.356	21803	18287	0.839	0.04		
3.395	1265836	1195828	0.945	2.45	3 Aroclor 1242	BA
3.423	750119	693963	0.925	1.45		
3.513	204525	183302	0.896	0.39		
3.594	1248668	923279	0.739	2.42	3 Aroclor 1242	BA
3.725	20841	14509	0.696	0.04		
3.777	34440	32800	0.952	0.06		
3.813	328702	319788	0.973	0.63		
3.837	224279	209000	0.932	0.43		
3.909	3754996	2154334	0.574	7.28	3 Aroclor 1242	BA
4.012	1607031	1318502	0.820	3.11	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.078	1046623	968261	0.925	2.03	3 Aroclor 1242
4.143	322889	262756	0.814	0.62	
4.221	122732	102449	0.835	0.23	
4.299	874491	800286	0.915	1.69	
4.345	823069	778490	0.946	1.59	
4.376	337588	343883	1.019	0.65	
4.393	409800	376722	0.919	0.79	
4.454	27596	22392	0.811	0.05	
4.502	1124725	1080914	0.961	2.18	
4.537	917622	661662	0.721	1.78	
4.631	1469448	1296435	0.882	2.85	
4.703	334733	297993	0.890	0.64	
4.761	24340	18067	0.742	0.04	
4.811	69970	62025	0.886	0.13	
4.853	79555	74731	0.939	0.15	
4.898	693599	677577	0.977	1.34	
4.933	1231469	1163446	0.945	2.38	
4.964	1566113	1188807	0.759	3.03	
5.043	158710	129394	0.815	0.30	
5.124	1299994	1179131	0.907	2.52	
5.186	255685	199328	0.780	0.49	
5.247	295584	262789	0.889	0.57	
5.298	223308	192250	0.861	0.43	
5.395	45719	43147	0.944	0.08	
5.427	21573	23516	1.090	0.04	
5.450	198084	167001	0.843	0.38	
5.494	314013	267160	0.851	0.60	
5.532	198499	172864	0.871	0.38	
5.597	526081	402528	0.765	1.02	
5.692	150206	138165	0.920	0.29	
5.763	20037	15404	0.769	0.03	
5.801	30244	25075	0.829	0.05	
5.827	40936	37804	0.923	0.07	
5.878	340110	296705	0.872	0.65	
5.976	37064	32240	0.870	0.07	
6.112	338231	261607	0.773	0.65	
6.328	11846	9737	0.822	0.02	
6.387	74170	64018	0.863	0.14	
6.417	12586	12902	1.025	0.02	
6.458	13744	10984	0.799	0.02	
6.624	14964	17116	1.144	0.02	
6.806	13455	12190	0.906	0.02	
6.890	14195	13278	0.935	0.02	
7.033	21444	11740	0.547	0.04	
7.093	22015	19551	0.888	0.04	
7.338	10130	8983	0.887	0.01	
7.473	9974	8686	0.871	0.01	
7.525	11844	8704	0.735	0.02	
7.813	58240	38476	0.661	0.11	
7.883	15919	17176	1.079	0.03	
8.247	12737	13979	1.097	0.02	
8.264	10513	10576	1.006	0.02	
8.361	110142	100639	0.914	0.21	
8.443	46666	22491	0.482	0.09	
8.534	10602	7890	0.744	0.02	
8.658	12777394	11054343	0.865	25.18	$ 12 Decachlorobiphenyl
9.002	72650	43975	0.605	0.14	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.530	118852	67409	0.567	0.23	
	51542724	45440613		100.000	

Total unknown % area = 36

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718081.D
Lab Smp Id: 1683453 Client Smp ID: MBLCS
Inj Date : 08-MAY-2018 15:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683453,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 81 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) * CpndVar

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
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			
2.549	2.549	0.000	10873001	0.09028	45			
3 Aroclor 1242					CAS #: 53469-21-9			
3.395	3.396	-0.001	1265836	0.52299	260	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1248667	0.50734	250	0.00- 20.00	98.64	BA
3.908	3.909	-0.001	3754995	0.51754	260	0.00- 20.00	296.64	BA
4.011	4.011	0.000	1607031	0.51570	260	0.00- 20.00	126.95	BA
4.077	4.078	-0.001	1046623	0.49999	250	0.00- 20.00	82.68	BA
Average of Peak Concentrations =					260			

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

4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

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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

8.657	8.657	0.000	12777394	0.09593	48	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718081.D

Date : 08-MAY-2018 15:23

Client ID: MBLCS

Instrument: 40GCSK.i

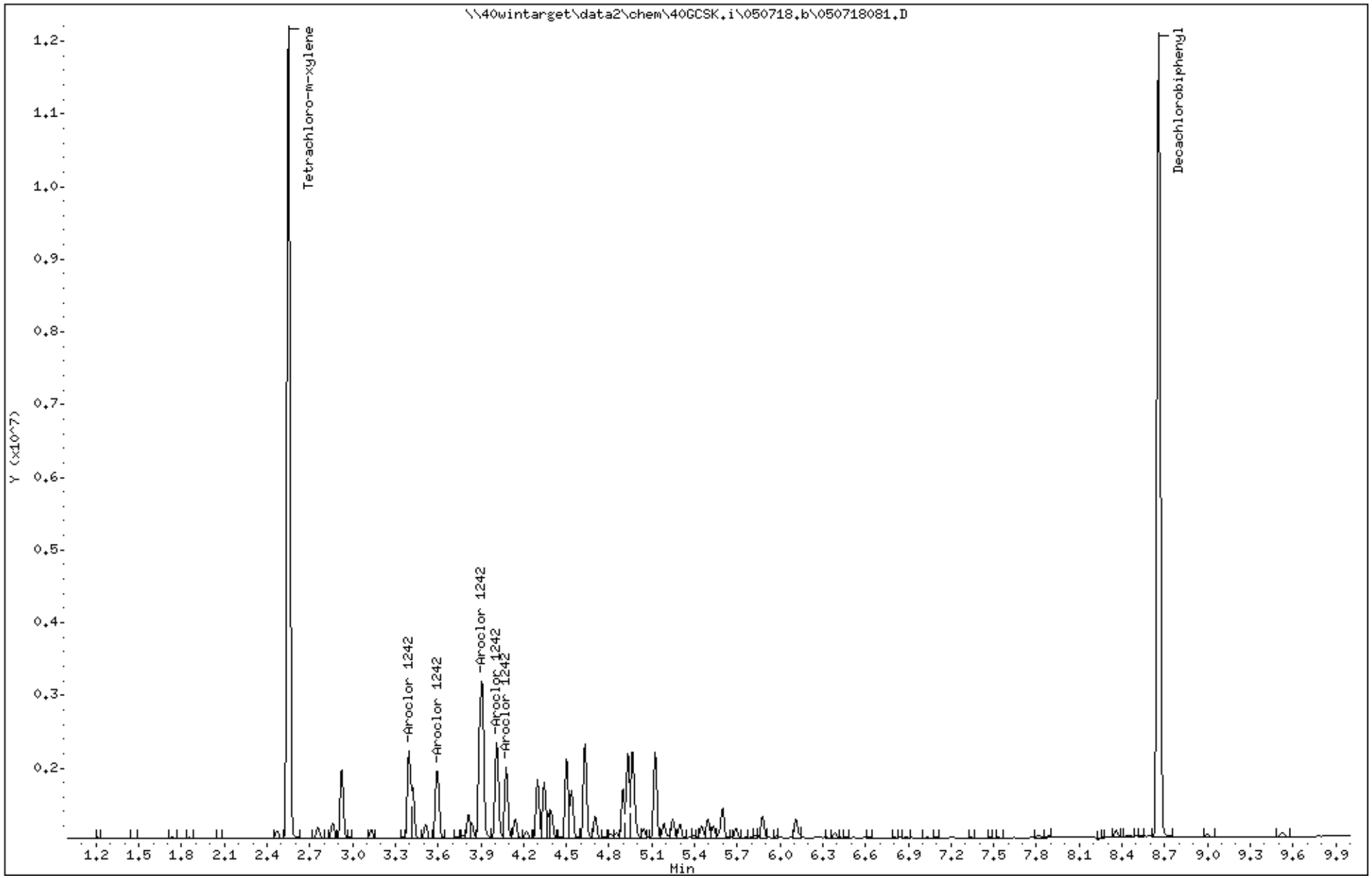
Sample Info: 1683453,

Volume Injected (uL): 1.0

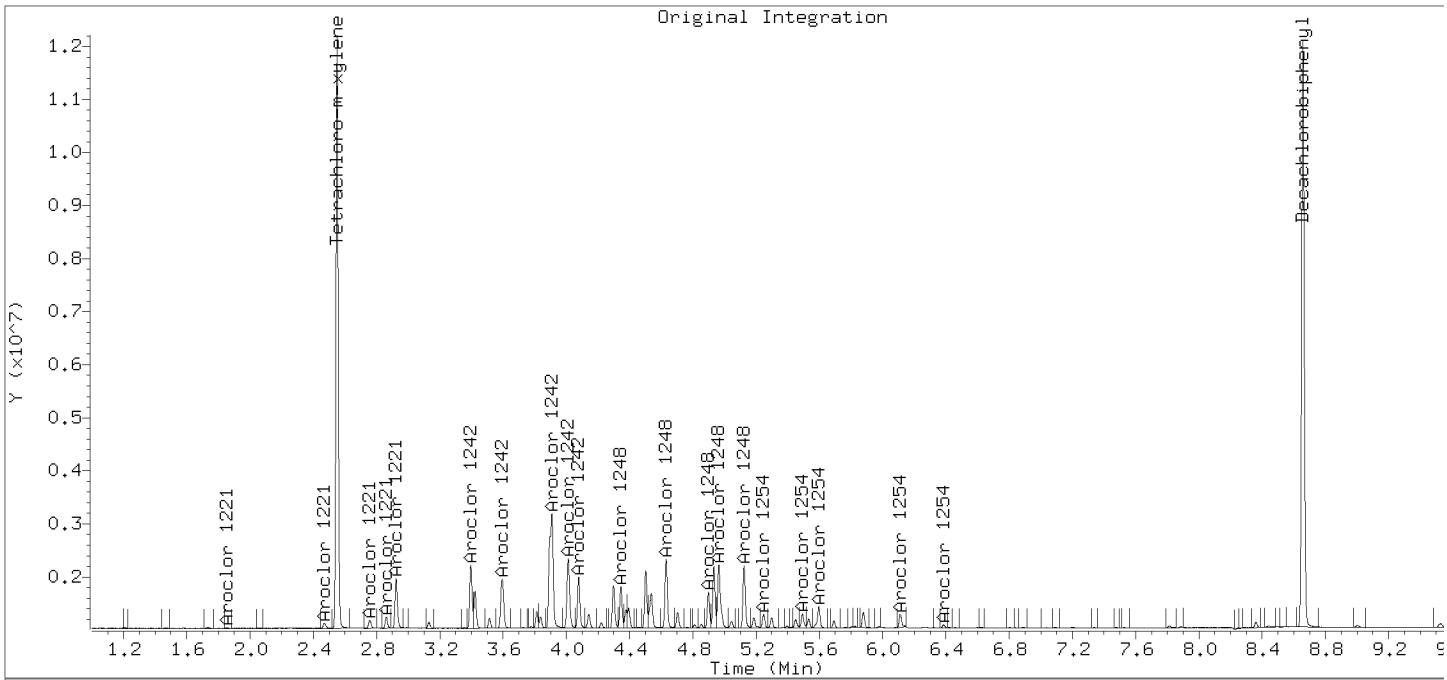
Operator: BLM

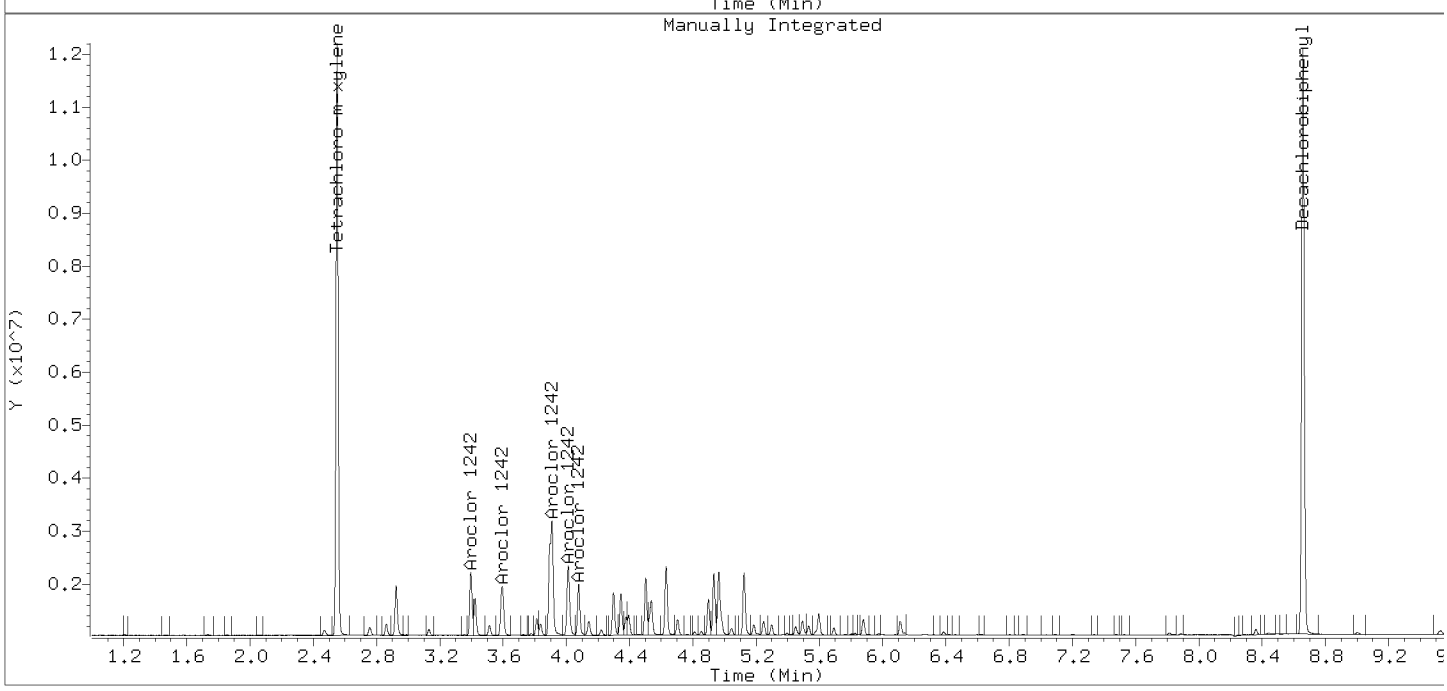
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718081.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 15:23 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1683453





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1260300	0	
Aroclor 1016	1260300	0	
Aroclor 1016	1260300	0	
Aroclor 1016	1260300	0	
Aroclor 1016	1260300	0	
Aroclor 1221	15633	0	
Aroclor 1221	15633	0	
Aroclor 1221	15633	0	
Aroclor 1221	15633	0	
Aroclor 1221	15633	0	
Aroclor 1232	992269	0	
Aroclor 1232	992269	0	
Aroclor 1232	992269	0	
Aroclor 1232	992269	0	

Aroclor 1232	992269	0	
Aroclor 1242	1260300	1265836	BA
Aroclor 1242	1260300	1265836	BA
Aroclor 1242	1260300	1265836	BA
Aroclor 1242	1260300	1265836	BA
Aroclor 1242	1260300	1265836	BA
Aroclor 1248	805438	0	
Aroclor 1248	805438	0	
Aroclor 1248	805438	0	
Aroclor 1248	805438	0	
Aroclor 1248	805438	0	
Aroclor 1254	275115	0	
Aroclor 1254	275115	0	
Aroclor 1254	275115	0	
Aroclor 1254	275115	0	
Aroclor 1254	275115	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	10873001	10873001	
Decachlorobiphenyl	12777394	12777394	

==========

SAMPLE NO.

MS

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 10/05/2017 09:40
Matrix: Tissue SDG No.: 40158017
Date Extracted: 05/04/2018 07:32
Lab Sample ID: 1683455
Date Analyzed: 05/08/2018 16:27
Lab File ID: 050718.B\050718085.D
Initial wt/vol: 3.5445 g Final wt/vol: 5 mL Dilution: 1
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<32.2	U
11104-28-2	PCB-1221 (Aroclor 1221)	<32.2	U
11141-16-5	PCB-1232 (Aroclor 1232)	<32.2	U
53469-21-9	PCB-1242 (Aroclor 1242)	709	
12672-29-6	PCB-1248 (Aroclor 1248)	495	
11097-69-1	PCB-1254 (Aroclor 1254)	111	J
11096-82-5	PCB-1260 (Aroclor 1260)	41.4	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718085.D
Lab Smp Id: 1683455 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 08-MAY-2018 16:27
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683455,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 85 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	3.545	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.011	11160	12332	1.105	0.01		
1.051	26082	21039	0.807	0.04		
1.081	30403	19207	0.632	0.05		
1.118	16026	12004	0.749	0.02		
1.181	14552	18073	1.242	0.02		
1.203	17143	22266	1.299	0.02		
1.363	23001	18952	0.824	0.03		
1.462	21585	21488	0.996	0.03		
1.528	9880	12131	1.228	0.01		
1.729	28699	27863	0.971	0.04		
1.807	25156	18005	0.716	0.04		
1.851	25232	19861	0.787	0.04		
2.061	24768	16900	0.682	0.04		
2.115	25022	15772	0.630	0.04		
2.187	77210	50939	0.660	0.13		
2.229	103223	100234	0.971	0.17		
2.272	34991	30620	0.875	0.06		
2.317	23770	23403	0.985	0.04		
2.354	98039	96381	0.983	0.17		
2.378	139268	141612	1.017	0.24		
2.423	26918	22107	0.821	0.04		
2.470	189877	125530	0.661	0.32		
2.513	43880	32737	0.746	0.07		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.549	10515603	10978016	1.044	18.25	$ 2 Tetrachloro-m-xyle
2.755	201399	152558	0.757	0.34	
2.860	247281	213360	0.863	0.42	
2.923	1001033	942929	0.942	1.73	
2.970	279428	238733	0.854	0.48	
3.047	41619	35594	0.855	0.07	
3.064	63594	58928	0.927	0.11	
3.093	92906	92639	0.997	0.16	
3.131	120924	118078	0.976	0.20	
3.239	11466	11770	1.027	0.01	
3.312	12726	8680	0.682	0.02	
3.354	27632	19950	0.722	0.04	
3.396	1249384	1182355	0.946	2.16	3 Aroclor 1242
3.422	718854	670263	0.932	1.24	
3.513	201175	183331	0.911	0.34	
3.594	1224057	918318	0.750	2.12	3 Aroclor 1242
3.727	19616	14336	0.731	0.03	
3.776	34091	34631	1.016	0.05	
3.813	316872	314892	0.994	0.55	
3.837	224093	200975	0.897	0.38	
3.908	3680613	2144569	0.583	6.39	3 Aroclor 1242
4.011	1561648	1277959	0.818	2.71	3 Aroclor 1242
4.077	1028177	988784	0.962	1.78	3 Aroclor 1242
4.142	299747	259321	0.865	0.52	
4.190	34222	31455	0.919	0.05	
4.221	96722	96484	0.998	0.16	
4.298	894972	850878	0.951	1.55	
4.345	853623	806743	0.945	1.48	6 Aroclor 1248
4.376	368556	374354	1.016	0.63	
4.393	397643	376079	0.946	0.69	
4.455	27509	22213	0.807	0.04	
4.502	1118000	1056637	0.945	1.94	
4.537	897861	655895	0.731	1.55	
4.630	1452432	1354856	0.933	2.52	6 Aroclor 1248
4.673	20227	21441	1.060	0.03	
4.703	324406	299324	0.923	0.56	
4.763	21345	19635	0.920	0.03	
4.811	74349	60043	0.808	0.12	
4.854	91992	89540	0.973	0.15	
4.898	771879	742013	0.961	1.34	6 Aroclor 1248
4.932	1285454	1209015	0.941	2.23	
4.964	1721996	1323092	0.768	2.98	6 Aroclor 1248
5.044	187339	153994	0.822	0.32	
5.123	1370923	1303704	0.951	2.38	6 Aroclor 1248
5.186	288149	237647	0.825	0.50	
5.247	422924	382468	0.904	0.73	7 Aroclor 1254
5.298	373001	306940	0.823	0.64	
5.370	22228	22000	0.990	0.03	
5.398	101990	84620	0.830	0.17	
5.449	241087	205060	0.851	0.41	
5.493	380612	341212	0.896	0.66	7 Aroclor 1254
5.535	722589	679701	0.941	1.25	
5.577	70007	98127	1.402	0.12	
5.596	628364	553516	0.881	1.09	7 Aroclor 1254
5.692	174156	163932	0.941	0.30	
5.758	155127	108561	0.700	0.26	
5.801	63689	46698	0.733	0.11	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.825	82465	69926	0.848	0.14	
5.876	698720	612030	0.876	1.21	
5.908	99340	78361	0.789	0.17	
5.973	78229	46222	0.591	0.13	
6.078	65835	64061	0.973	0.11	
6.111	456652	410040	0.898	0.79	7 Aroclor 1254
6.141	334811	295538	0.883	0.58	
6.255	86093	65216	0.758	0.14	
6.329	312259	250900	0.803	0.54	
6.386	444978	369707	0.831	0.77	8 Aroclor 1260
6.420	58156	54022	0.929	0.10	
6.463	30847	22910	0.743	0.05	
6.518	56148	33973	0.605	0.09	
6.596	123667	114185	0.923	0.21	
6.625	99699	91108	0.914	0.17	
6.646	93925	52071	0.554	0.16	
6.729	705416	570389	0.809	1.22	
6.805	103494	72642	0.702	0.17	
6.839	395897	309304	0.781	0.68	
6.888	107396	75033	0.699	0.18	
6.929	83228	38232	0.459	0.14	
7.029	217647	177474	0.815	0.37	
7.091	240478	192961	0.802	0.41	8 Aroclor 1260
7.191	119497	39224	0.328	0.20	
7.265	85619	67441	0.788	0.14	
7.338	105749	84693	0.801	0.18	8 Aroclor 1260
7.367	94652	54422	0.575	0.16	
7.423	99818	53874	0.540	0.17	
7.478	48697	49618	1.019	0.08	
7.529	132529	77015	0.581	0.23	8 Aroclor 1260
7.566	54078	34498	0.638	0.09	
7.582	55298	34571	0.625	0.09	
7.635	167331	133215	0.796	0.29	
7.669	24559	22203	0.904	0.04	
7.708	24406	16812	0.689	0.04	
7.740	68135	56036	0.822	0.11	
7.787	46486	37139	0.799	0.08	
7.815	68413	46888	0.685	0.11	
7.843	58115	34211	0.589	0.10	
7.898	80551	38993	0.484	0.13	
7.957	48861	30355	0.621	0.08	
7.988	76788	49788	0.648	0.13	8 Aroclor 1260
8.027	11960	16255	1.359	0.02	
8.043	44399	24503	0.552	0.07	
8.094	12722	11429	0.898	0.02	
8.136	16257	13713	0.844	0.02	
8.361	100638	93880	0.933	0.17	
8.441	22560	19900	0.882	0.03	
8.658	10767592	9345841	0.868	19.37	$ 12 Decachlorobiphenyl
8.812	21432	13738	0.641	0.03	
8.879	12852	10429	0.811	0.02	
9.001	93126	61507	0.660	0.16	
9.254	55032	50416	0.916	0.09	
9.525	137600	81852	0.595	0.23	
	57596327	50789066		100.000	

Total unknown % area = 32

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718085.D
Lab Smp Id: 1683455 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 08-MAY-2018 16:27
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683455,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 85 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	3.545	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.								BA
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.548	2.549	-0.001	10515602	0.08731	120		(M)	BA
3 Aroclor 1242					CAS #: 53469-21-9			
3.395	3.396	-0.001	1249383	0.51620	730	0.00- 20.00	100.00(M)	BA
3.593	3.592	0.001	1224056	0.49734	700	0.00- 20.00	97.97	BA
3.907	3.909	-0.002	3680612	0.50728	720	0.00- 20.00	294.59	BA
4.011	4.011	0.000	1561647	0.50113	710	0.00- 20.00	124.99	BA
4.077	4.078	-0.001	1028176	0.49118	690	0.00- 20.00	82.29	BA
Average of Peak Concentrations =					710			

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			
4.344	4.343	0.001	853622	0.35786	500	0.00- 20.00	100.00(M)	BA
4.630	4.630	0.000	1452431	0.34195	480	0.00- 20.00	170.15	BA
4.897	4.898	-0.001	771879	0.37892	530	0.00- 20.00	90.42	BA
4.963	4.963	0.000	1721995	0.31438	440	0.00- 20.00	201.73	BA
5.123	5.123	0.000	1370923	0.36236	510	0.00- 20.00	160.60	BA
Average of Peak Concentrations =					500			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	422924	0.07499	100	0.00- 20.00	100.00(M)	CO
5.493	5.492	0.001	380611	0.08161	120	0.00- 20.00	90.00	CO
5.596	5.596	0.000	628363	0.07339	100	0.00- 20.00	148.58	CO
6.111	6.113	-0.002	456652	0.08595	120	0.00- 20.00	107.97	CO
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00	CO
Average of Peak Concentrations =					110			
8 Aroclor 1260					CAS #: 11096-82-5			
6.385	6.387	-0.002	444978	0.04445	63	0.00- 20.00	100.00(M)	BA
7.091	7.090	0.001	240478	0.02043	29	0.00- 20.00	54.04	BA
7.337	7.338	-0.001	105749	0.01870	26	0.00- 20.00	23.76	BA
7.528	7.529	-0.001	132529	0.03876	55	0.00- 20.00	29.78	BA
7.988	7.987	0.001	76788	0.02425	34	0.00- 20.00	17.26	BA
Average of Peak Concentrations =					41			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	10767591	0.08084	110			

QC Flag Legend

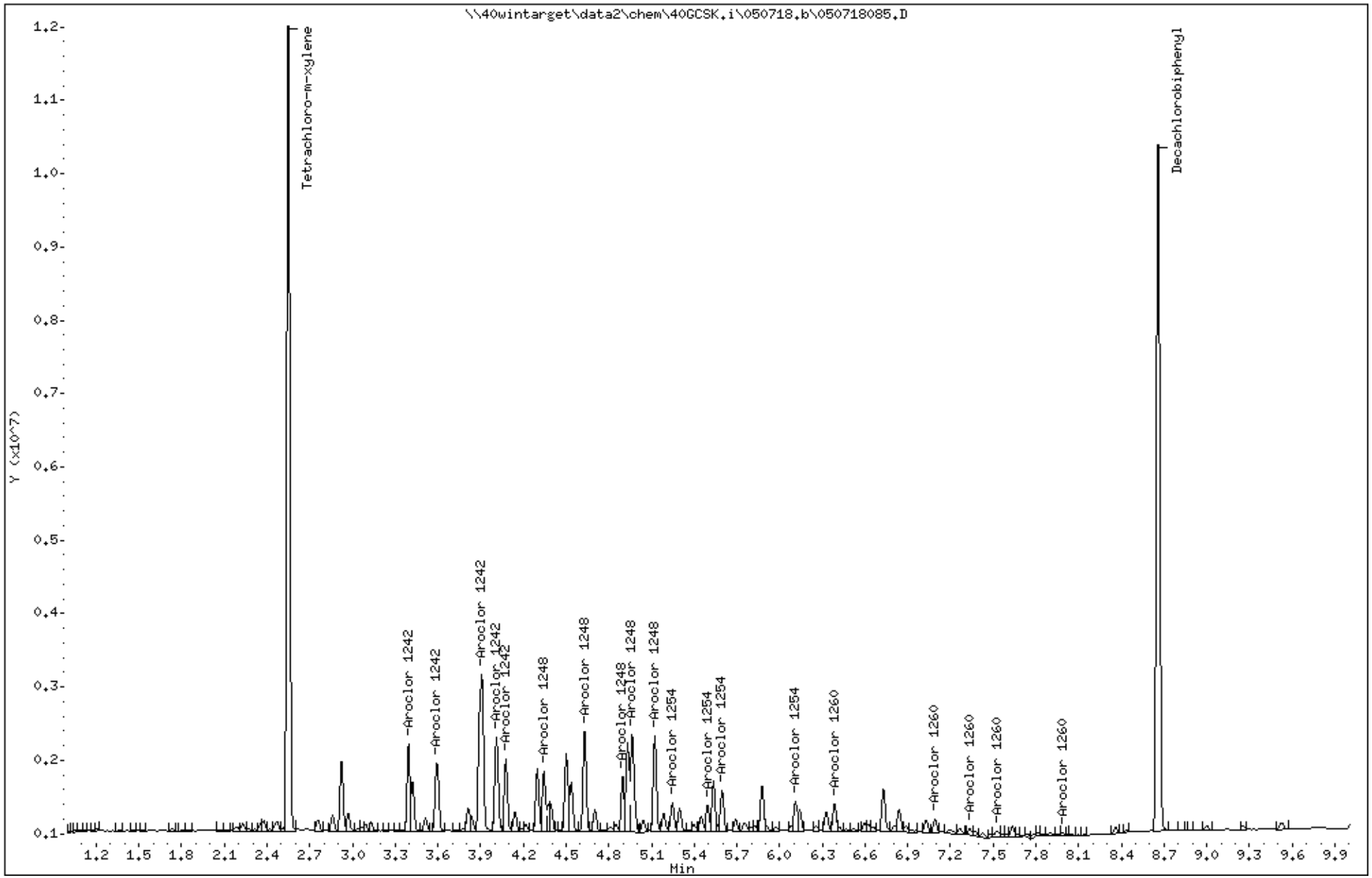
M - Compound response manually integrated.

Review Codes Legend

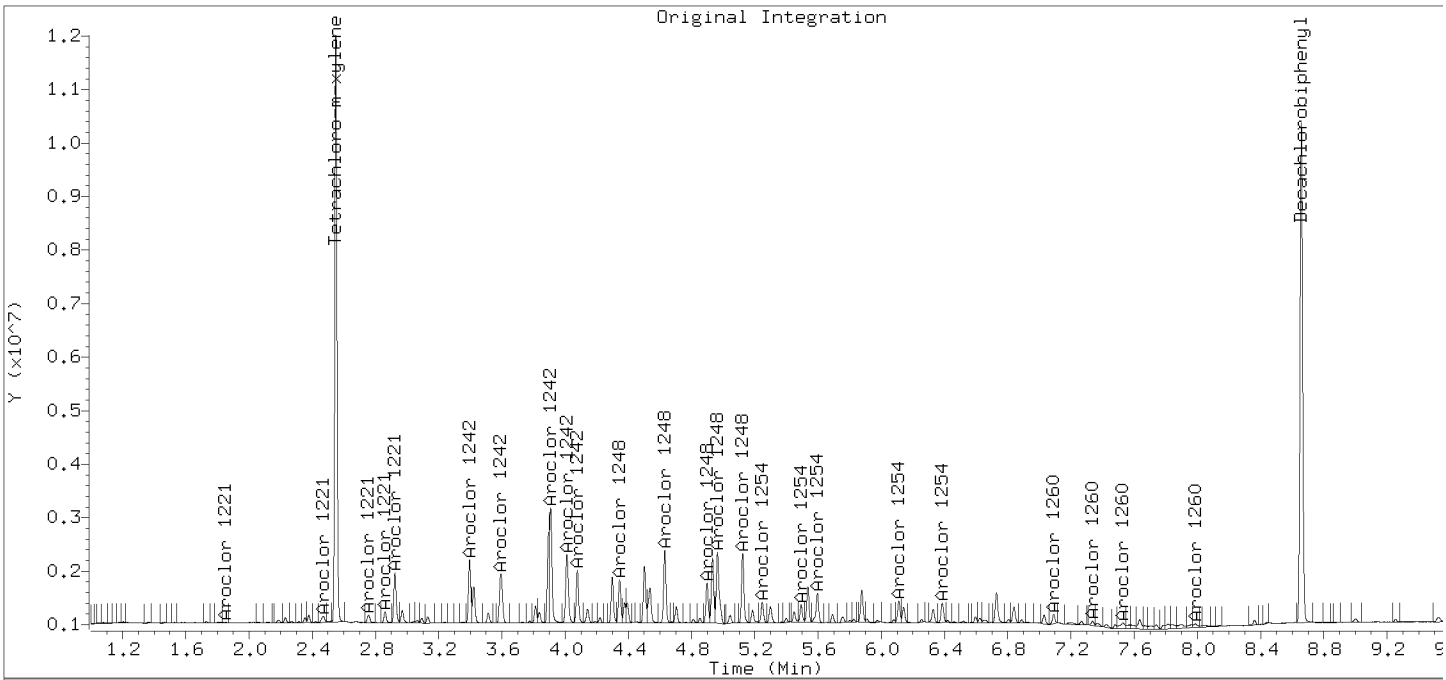
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

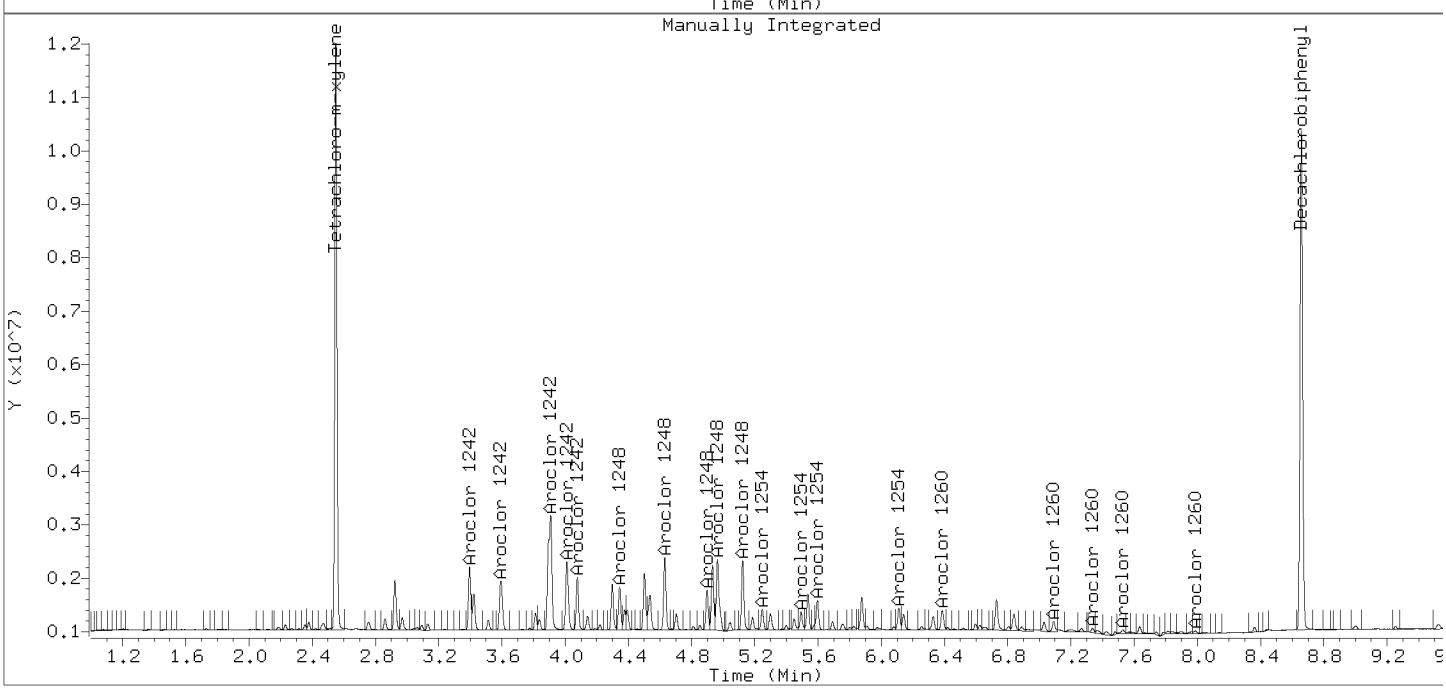
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718085.D
Date : 08-MAY-2018 16:27
Client ID: FD1-170829-01-MMSH-
Sample Info: 1683455,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718085.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 16:27 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1683455





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1245704	0	
Aroclor 1016	1245704	0	
Aroclor 1016	1245704	0	
Aroclor 1016	1245704	0	
Aroclor 1016	1245704	0	
Aroclor 1221	23154	0	BA
Aroclor 1221	23154	0	BA
Aroclor 1221	23154	0	BA
Aroclor 1221	23154	0	BA
Aroclor 1221	23154	0	BA
Aroclor 1232	984799	0	
Aroclor 1232	984799	0	
Aroclor 1232	984799	0	
Aroclor 1232	984799	0	

Aroclor 1232	984799	0	
Aroclor 1242	1245704	1249383	BA
Aroclor 1242	1245704	1249383	BA
Aroclor 1242	1245704	1249383	BA
Aroclor 1242	1245704	1249383	BA
Aroclor 1242	1245704	1249383	BA
Aroclor 1248	839475	853622	BA
Aroclor 1248	839475	853622	BA
Aroclor 1248	839475	853622	BA
Aroclor 1248	839475	853622	BA
Aroclor 1248	839475	853622	BA
Aroclor 1254	403848	422924	CO
Aroclor 1254	403848	422924	CO
Aroclor 1254	403848	422924	CO
Aroclor 1254	403848	422924	CO
Aroclor 1254	403848	422924	CO
Aroclor 1260	419018	444978	BA
Aroclor 1260	419018	444978	BA
Aroclor 1260	419018	444978	BA
Aroclor 1260	419018	444978	BA
Aroclor 1260	419018	444978	BA
Tetrachloro-m-xylene	10397268	10515602	BA
Decachlorobiphenyl	10767591	10767591	

==========

SAMPLE NO.

DUP

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay

Contract: HUDSON RIVER REMEDIAL ACTION M

Date Received: 10/05/2017 09:40

Matrix: Tissue SDG No.: 40158017

Date Extracted: 05/04/2018 07:32

Lab Sample ID: 1683456

Date Analyzed: 05/08/2018 16:42

Lab File ID: 050718.B\050718086.D

Initial wt/vol: 4.3374 g Final wt/vol: 5 mL Dilution: 1

Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<26.3	U
11104-28-2	PCB-1221 (Aroclor 1221)	<26.3	U
11141-16-5	PCB-1232 (Aroclor 1232)	<26.3	U
53469-21-9	PCB-1242 (Aroclor 1242)	<26.3	U
12672-29-6	PCB-1248 (Aroclor 1248)	53.1	J
11097-69-1	PCB-1254 (Aroclor 1254)	38.1	J
11096-82-5	PCB-1260 (Aroclor 1260)	37.2	J

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718086.D
Lab Smp Id: 1683456 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 08-MAY-2018 16:42
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683456,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: AREA%
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 86 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	4.337	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.011	11556	15620	1.352	0.03		
1.052	35820	23590	0.659	0.09		
1.080	16437	15649	0.952	0.04		
1.116	12155	9899	0.814	0.03		
1.178	13903	18918	1.361	0.03		
1.205	17620	13990	0.794	0.04		
1.361	21785	16616	0.763	0.05		
1.422	10166	10852	1.068	0.02		
1.462	19471	19994	1.027	0.05		
1.573	17201	11665	0.678	0.04		
1.728	29784	25134	0.844	0.08		
1.808	13735	17273	1.258	0.03		
1.816	16963	18372	1.083	0.04		
2.002	9866	10952	1.110	0.02		
2.231	61643	55218	0.896	0.16		
2.271	21971	17058	0.776	0.06		
2.317	9698	10259	1.058	0.02		
2.355	47336	51087	1.079	0.12		
2.377	64453	65460	1.016	0.17		
2.420	13535	13344	0.986	0.03		
2.459	14775	17705	1.198	0.04		
2.473	26285	29771	1.133	0.07		
2.513	9878	9672	0.979	0.02		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.549	12399550	12998056	1.048	34.03	$ 2 Tetrachloro-m-xyle
2.855	21106	19653	0.931	0.05	
2.888	18133	13871	0.765	0.04	
2.927	38540	27502	0.714	0.10	
2.970	329470	297285	0.902	0.90	
3.045	44014	38794	0.881	0.12	
3.062	68512	72753	1.062	0.18	
3.093	111317	114365	1.027	0.30	
3.237	17438	14441	0.828	0.04	
3.312	10886	7853	0.721	0.02	
3.858	10766	11385	1.058	0.02	
3.910	60984	43211	0.709	0.16	
4.078	12116	12778	1.055	0.03	
4.132	57936	49774	0.859	0.15	
4.192	52991	42632	0.805	0.14	
4.256	4819	4724	0.980	0.01	
4.272	4734	9038	1.909	0.01	
4.297	80250	70812	0.882	0.22	
4.344	86353	83866	0.971	0.23	6 Aroclor 1248
4.375	69546	49676	0.714	0.19	
4.501	53207	46165	0.868	0.14	
4.537	30264	31588	1.044	0.08	
4.632	105559	95832	0.908	0.28	6 Aroclor 1248
4.811	19730	12329	0.625	0.05	
4.854	27049	21974	0.812	0.07	
4.896	134075	123402	0.920	0.36	6 Aroclor 1248
4.932	146126	137292	0.940	0.40	
4.964	338978	234296	0.691	0.93	6 Aroclor 1248
5.044	66502	39464	0.593	0.18	
5.082	13885	12005	0.865	0.03	
5.123	157020	146868	0.935	0.43	6 Aroclor 1248
5.142	19696	26985	1.370	0.05	
5.186	89004	71138	0.799	0.24	
5.248	205551	177867	0.865	0.56	7 Aroclor 1254
5.299	239221	170005	0.711	0.65	
5.369	16860	16855	1.000	0.04	
5.401	93656	75340	0.804	0.25	
5.449	77280	59344	0.768	0.21	
5.493	116454	111688	0.959	0.31	7 Aroclor 1254
5.536	704551	673087	0.955	1.93	
5.597	263194	220835	0.839	0.72	7 Aroclor 1254
5.651	28513	18232	0.639	0.07	
5.692	59565	39047	0.656	0.16	
5.758	153336	107421	0.701	0.42	
5.799	46242	36364	0.786	0.12	
5.826	82244	52181	0.634	0.22	
5.877	454965	382144	0.840	1.24	
5.908	113290	95157	0.840	0.31	
5.976	31182	26791	0.859	0.08	
5.989	50988	33682	0.661	0.13	
6.078	88783	75589	0.851	0.24	
6.111	212516	189024	0.889	0.58	7 Aroclor 1254
6.142	398980	336341	0.843	1.09	
6.253	119985	66532	0.555	0.32	
6.328	500608	407216	0.813	1.37	
6.387	491408	397777	0.809	1.34	8 Aroclor 1260
6.422	70443	59217	0.841	0.19	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.459	38646	23638	0.612	0.10	
6.520	75845	39005	0.514	0.20	
6.596	162362	138188	0.851	0.44	
6.624	112463	96281	0.856	0.30	
6.648	41620	67162	1.614	0.11	
6.663	106311	84292	0.793	0.29	
6.695	21656	20156	0.931	0.05	
6.729	727539	600856	0.826	1.99	
6.805	99183	78246	0.789	0.27	
6.840	245657	188647	0.768	0.67	
6.887	92237	72806	0.789	0.25	
6.926	27869	24584	0.882	0.07	
7.030	251306	214886	0.855	0.68	
7.091	265433	213507	0.804	0.72	8 Aroclor 1260
7.121	52356	34343	0.656	0.14	
7.187	55983	33601	0.600	0.15	
7.267	148341	112560	0.759	0.40	
7.336	141298	102834	0.728	0.38	8 Aroclor 1260
7.368	104237	61961	0.594	0.28	
7.422	74998	40148	0.535	0.20	
7.475	70558	62316	0.883	0.19	
7.530	128943	84312	0.654	0.35	8 Aroclor 1260
7.568	102910	54258	0.527	0.28	
7.637	217621	149385	0.686	0.59	
7.739	74816	44615	0.596	0.20	
7.780	47603	39445	0.829	0.13	
7.813	70449	49312	0.700	0.19	
7.849	38942	26734	0.687	0.10	
7.881	10950	20013	1.828	0.03	
7.900	55445	37292	0.673	0.15	
7.958	58076	34925	0.601	0.15	
7.987	85539	56311	0.658	0.23	8 Aroclor 1260
8.041	42790	23387	0.547	0.11	
8.221	15036	11919	0.793	0.04	
8.361	107914	100459	0.931	0.29	
8.462	19996	14525	0.726	0.05	
8.536	11854	12942	1.092	0.03	
8.658	12422804	11068724	0.891	34.75	$ 12 Decachlorobiphenyl
8.810	25058	14516	0.579	0.06	
9.004	30244	19225	0.636	0.08	
9.253	66950	59589	0.890	0.18	
9.526	37892	24183	0.638	0.10	
9.565	10141	7366	0.726	0.02	
	36434275	33571095		100.000	

Total unknown % area = 24

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\050718.b\050718086.D
Lab Smp Id: 1683456 Client Smp ID: FD1-170829-01-MMSH-
Inj Date : 08-MAY-2018 16:42
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1683456,
Misc Info : 17773,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\050718.b\pcba050318.m
Meth Date : 18-May-2018 14:11 40GCSK.i Quant Type: ESTD
Cal Date : 03-MAY-2018 18:26 Cal File: 050318065.D
Als bottle: 86 QC Sample: FIELDDUP
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	5000.000	Volume of final extract(uL)(1000 low,200
Vi	1.000	Volume injected (uL)
Ws	4.337	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		
2.548	2.549	-0.001	12399550	0.10295	120			

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3 Aroclor 1242						CAS #: 53469-21-9		

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

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4 Aroclor 1232						CAS #: 1114-16-5		

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

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

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

6 Aroclor 1248					CAS #: 12672-29-6			
4.343	4.343	0.000	86352	0.03620	42	0.00- 20.00	100.00(M)	CO
4.631	4.630	0.001	105558	0.02485	29	0.00- 20.00	122.24	CO
4.896	4.898	-0.002	134074	0.06582	76	0.00- 20.00	155.26	CO
4.964	4.963	0.001	338978	0.06189	71	0.00- 20.00	392.55	CO
5.122	5.123	-0.001	157020	0.04150	48	0.00- 20.00	181.84	CO
		Average of Peak Concentrations =			53			
7 Aroclor 1254					CAS #: 11097-69-1			
5.247	5.248	-0.001	205551	0.03645	42	0.00- 20.00	100.00(M)	BA
5.492	5.492	0.000	116453	0.02497	29	0.00- 20.00	56.65	BA
5.596	5.596	0.000	263194	0.03074	35	0.00- 20.00	128.04	BA
6.110	6.113	-0.003	212515	0.04000	46	0.00- 20.00	103.39	BA
6.387	6.387	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			38			
8 Aroclor 1260					CAS #: 11096-82-5			
6.386	6.387	-0.001	491407	0.04909	56	0.00- 20.00	100.00(M)	BA
7.091	7.090	0.001	265433	0.02255	26	0.00- 20.00	54.01	BA
7.335	7.338	-0.003	141297	0.02498	29	0.00- 20.00	28.75	BA
7.529	7.529	0.000	128943	0.03772	43	0.00- 20.00	26.24	BA
7.986	7.987	-0.001	85538	0.02701	31	0.00- 20.00	17.41	BA
		Average of Peak Concentrations =			37			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.657	8.657	0.000	12422803	0.09327	110			

QC Flag Legend

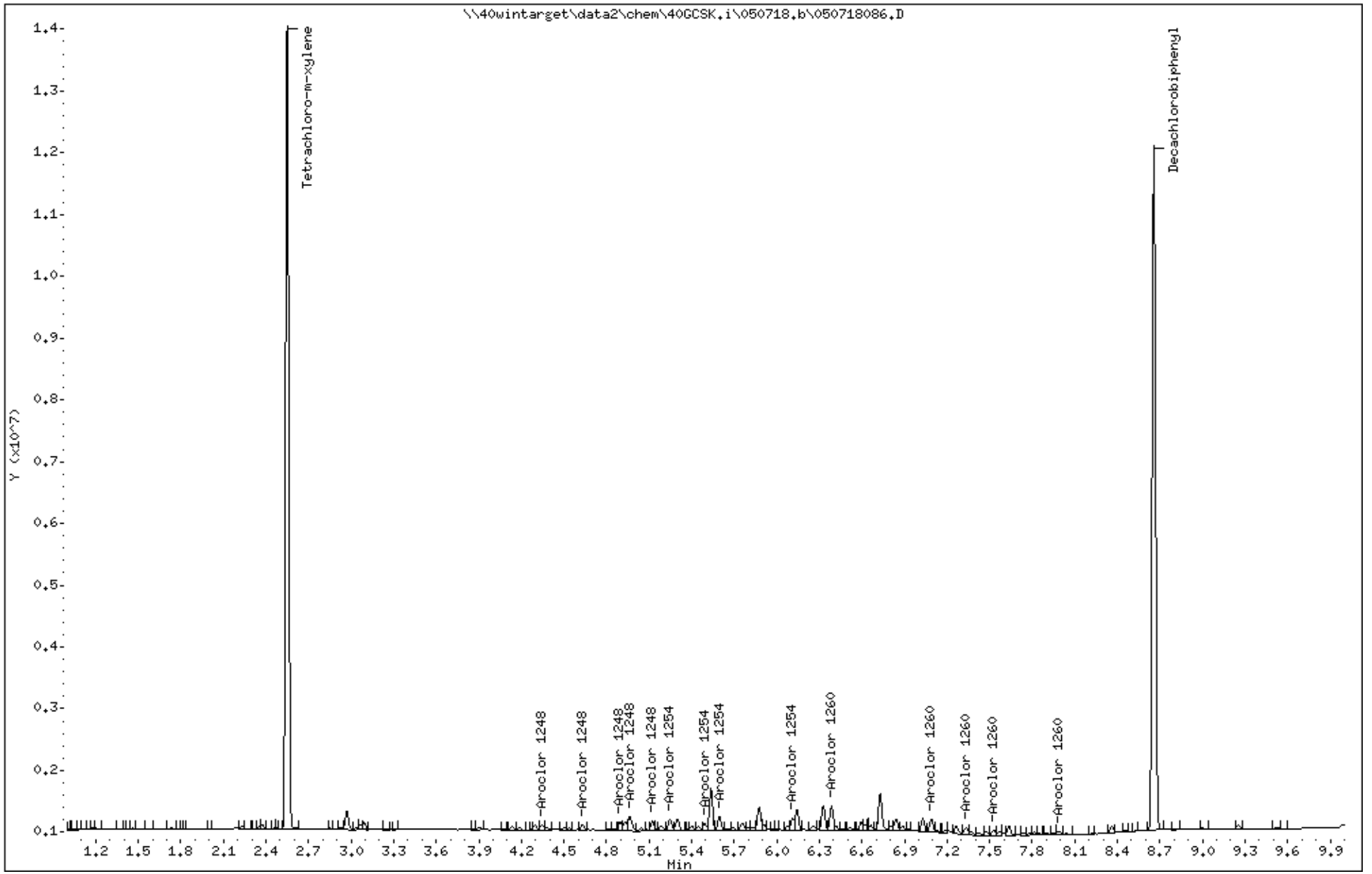
M - Compound response manually integrated.

Review Codes Legend

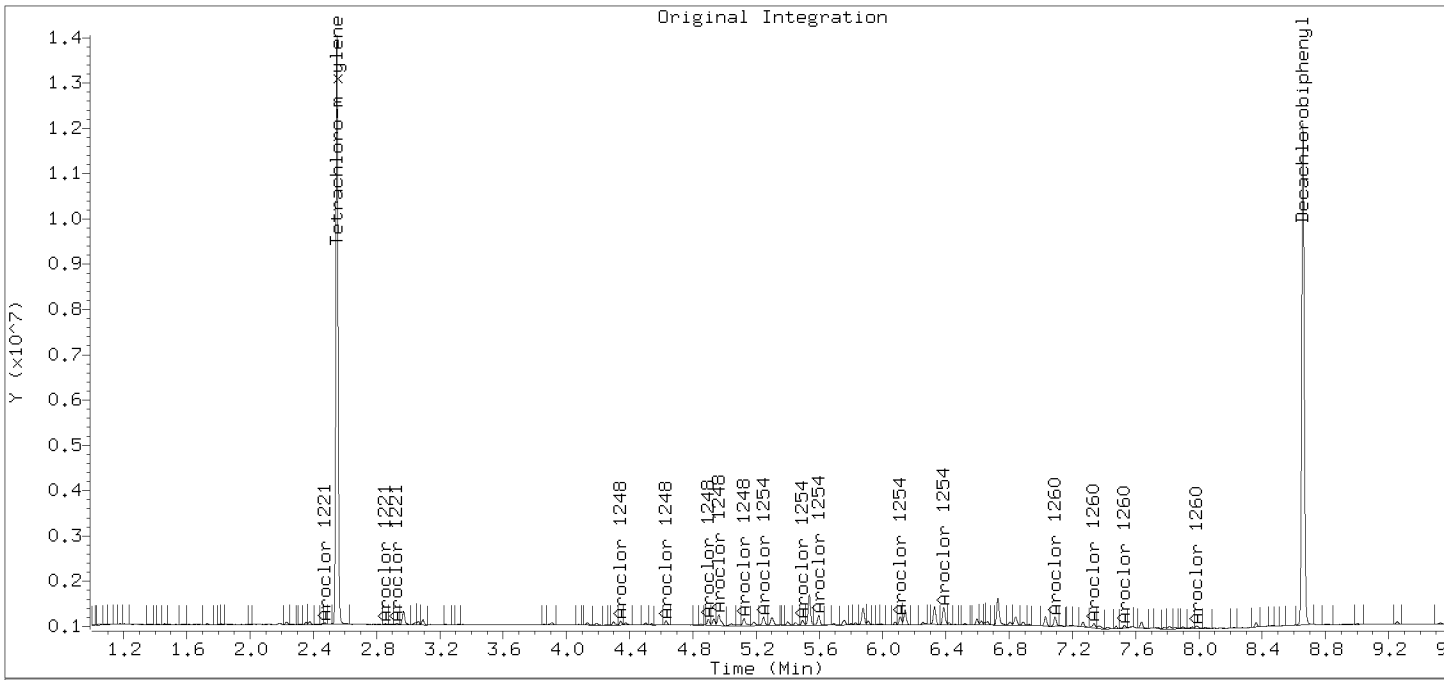
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

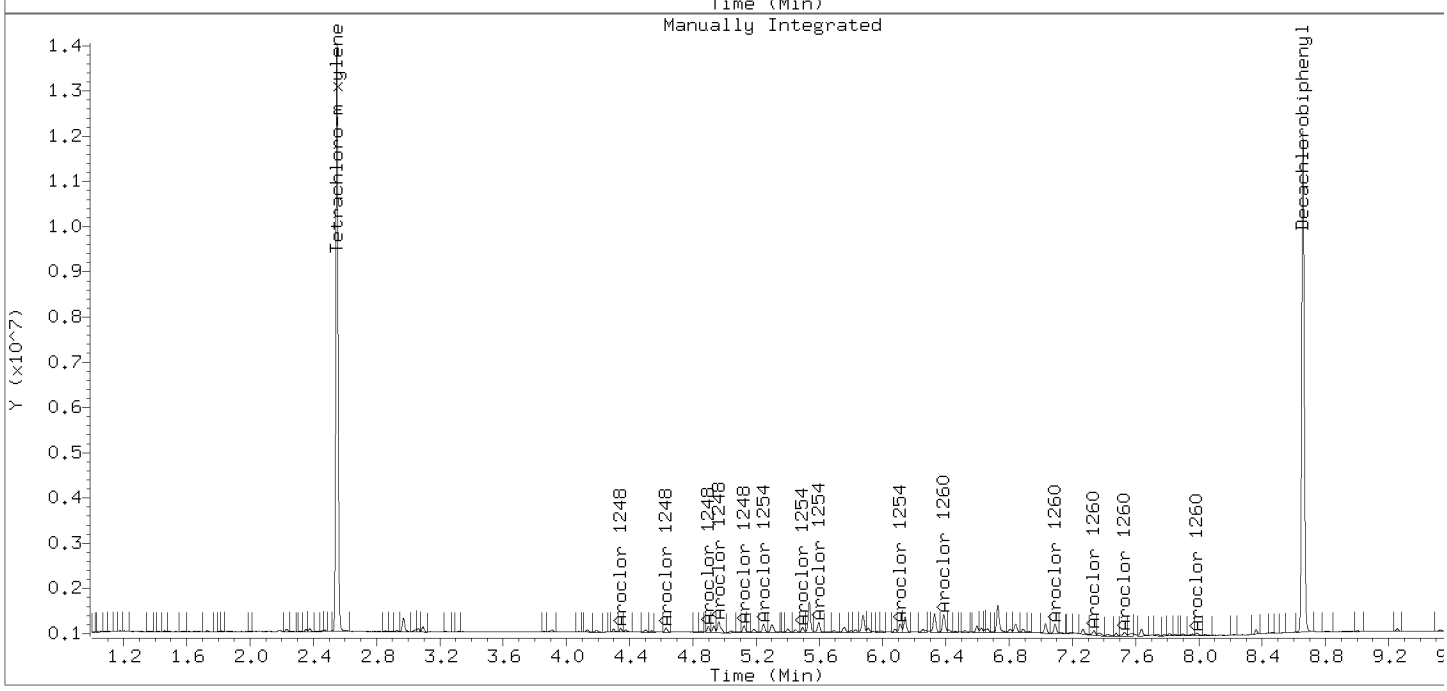
Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b\050718086.D
Date : 08-MAY-2018 16:42
Client ID: FD1-170829-01-MMSH-
Sample Info: 1683456,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\050718.b/050718086.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 08-MAY-2018 16:42 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1683456





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	87932	86352	CO
Aroclor 1248	87932	86352	CO
Aroclor 1248	87932	86352	CO
Aroclor 1248	87932	86352	CO
Aroclor 1248	87932	86352	CO
Aroclor 1254	234842	205551	BA
Aroclor 1254	234842	205551	BA
Aroclor 1254	234842	205551	BA
Aroclor 1254	234842	205551	BA
Aroclor 1254	234842	205551	BA
Aroclor 1260	446114	491407	BA
Aroclor 1260	446114	491407	BA
Aroclor 1260	446114	491407	BA
Aroclor 1260	446114	491407	BA
Aroclor 1260	446114	491407	BA
Tetrachloro-m-xylene	12399550	12399550	
Decachlorobiphenyl	12422803	12422803	

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Prep Log Report

Batch Information: OEXT 287324 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	ETB	Extracted Date/Time	04/30/2018 10:28:43:480
Spiked By	ETB	Spiked By Date/Time	04/30/2018 10:28:43:480	Witnessed By	AMC	Witnessed By Date/Time	04/30/2018 10:28:43:480
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	195058	Hexane	192551	Sodium Sulfate	194642	Florisil	186910
3620B Date/Initials	05/01/18 ETB	H2SO4 - Conc.	179362	Acid 3665A Date/Initials	05/01/18 ETB	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	05/10/2018 14:00	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	**1681428**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1681429**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	RQS	**40157940015**	9.9936	5	3		193230 (.25)	
8082A TNYP	DUP	**1681911**	9.9851	5	3		193230 (.25)	
8082A TNYP	MS	**1681430**	9.9846	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40157948008**	10.0142	5	3		193230 (.25)	
8082A TNYP	PS	**40157948009**	10.0164	5	3		193230 (.25)	
8082A TNYP	RQS	**40157948011**	10.0294	5	3		193230 (.25)	
8082A TNYP	DUP	**1681432**	10.0332	5	3		193230 (.25)	
8082A TNYP	PS	**40157948014**	10.0131	5	3		193230 (.25)	
8082A TNYP	PS	**40158017001**	9.9702	5	3		193230 (.25)	
8082A TNYP	PS	**40158017002**	9.9957	5	3		193230 (.25)	
8082A TNYP	PS	**40158017016**	9.9898	5	3		193230 (.25)	
8082A TNYP	PS	**40158017017**	10.0147	5	3		193230 (.25)	
8082A TNYP	PS	**40158017018**	10.0284	5	3		193230 (.25)	
8082A TNYP	PS	**40158017019**	10.0003	5	3		193230 (.25)	

Prep Log Report

40158017

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	RQS	**40158017020**	10.002	5	3		193230 (.25)	
8082A TNYP	DUP	**1681433**	10.0261	5	3		193230 (.25)	
8082A TNYP	PS	**40158029002**	9.985	5	3		193230 (.25)	
8082A TNYP	RQS	**40158029004**	10.0264	5	3		193230 (.25)	
8082A TNYP	DUP	**1681434**	10.0092	5	3		193230 (.25)	

Standard Notes:

192096: Ar1242 Spike @20ug/mL 40GCS9. **193230: Pest/PCB Surrogate Spike 40GCSC.**

Prep Log Report

Batch Information: OEXT 287454 PCB-B **Template Version: F-GB-O-113-Rev.05 (22Mar2018)**

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	ETB	Extracted Date/Time	05/01/2018 07:23:08:558
Spiked By	ETB	Spiked By Date/Time	05/01/2018 07:23:11:212	Witnessed By	AMC	Witnessed By Date/Time	05/01/2018 07:23:13:940
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	195058	Hexane	192551	Sodium Sulfate	194786	Florisil	186910
3620B Date/Initials	05/02/18 ETB	H2SO4 - Conc.	179362	Acid 3665A Date/Initials	05/02/18 ETB	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	05/11/2018 07:55	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	**1681906**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1681907**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40157948001**	9.9685	5	3		193230 (.25)	
8082A TNYP	PS	**40157948002**	10.0255	5	3		193230 (.25)	
8082A TNYP	PS	**40157948007**	9.9868	5	3		193230 (.25)	
8082A TNYP	MS	**1681908**	5.4335	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1681909**	8.7067	5	3		193230 (.25)	
8082A TNYP	PS	**40157948012**	10.0342	5	3		193230 (.25)	
8082A TNYP	PS	**40158013011**	10.0286	5	3		193230 (.25)	
8082A TNYP	PS	**40158013012**	9.9824	5	3		193230 (.25)	
8082A TNYP	PS	**40158017003**	10.0244	5	3		193230 (.25)	
8082A TNYP	PS	**40158017004**	10.0023	5	3		193230 (.25)	
8082A TNYP	PS	**40158017005**	10.0013	5	3		193230 (.25)	
8082A TNYP	PS	**40158017006**	9.9932	5	3		193230 (.25)	
8082A TNYP	DUP	**1681910**	9.996	5	3		193230 (.25)	
8082A TNYP	PS	**40158017007**	10.0085	5	3		193230 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40158017008**	10.0276	5	3		193230 (.25)	
8082A TNYP	PS	**40158017009**	10.0324	5	3		193230 (.25)	
8082A TNYP	PS	**40158017010**	9.9712	5	3		193230 (.25)	
8082A TNYP	PS	**40158029001**	9.9914	5	3		193230 (.25)	
8082A TNYP	PS	**40158029005**	9.9689	5	3		193230 (.25)	

Standard Notes:

192096: Ar1242 Spike @20ug/mL 40GCS9. **193230: Pest/PCB Surrogate Spike 40GCSC.**

Prep Log Report

Batch Information: OEXT 287737 PCB-B

Template Version: F-GB-O-113-Rev.05 (22Mar2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	ETB	Extracted Date/Time	05/04/2018 07:32:08:316
Spiked By	ETB	Spiked By Date/Time	05/04/2018 07:32:09:070	Witnessed By	AMC	Witnessed By Date/Time	05/04/2018 07:32:09:996
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane/Acetone 1:1	195322	Hexane	195250	Sodium Sulfate	194916	Florisil	188802
3620B Date/Initials	5/4/18 AMC	H2SO4 - Conc.	179362	Acid 3665A Date/Initials	5/4/18 AMC	Tuna	None Added
Reviewed By	BLM	Reviewed By Date	05/18/2018 14:19	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	**1683452**	10	5	3		193230 (.25)	
8082A TNYP	LCS	**1683453**	10	5	3		193230 (.25)	192096 (.125)
8082A TNYP	PS	**40157948006**	5.6341	5	3		193230 (.25)	
8082A TNYP	DUP	**1683454**	8.1489	5	3		193230 (.25)	
8082A TNYP	PS	**40158017011**	10.0015	5	3		193230 (.25)	
8082A TNYP	MS	**1683455**	3.5445	5	3		193230 (.25)	192096 (.125)
8082A TNYP	DUP	**1683456**	4.3374	5	3		193230 (.25)	
8082A TNYP	PS	**40158017012**	10.0365	5	3		193230 (.25)	
8082A TNYP	PS	**40158017013**	9.9933	5	3		193230 (.25)	
8082A TNYP	PS	**40158017014**	10.0237	5	3		193230 (.25)	
8082A TNYP	PS	**40158017015**	10.0001	5	3		193230 (.25)	
8082A TNYP	PS	**40158029003**	9.9914	5	3		193230 (.25)	
8082A TNYP	PS	**40158029012**	9.9826	5	3		193230 (.25)	
8082A TNYP	DUP	**1683457**	7.0222	5	3		193230 (.25)	
8082A TNYP	PS	**40158029013**	10.0044	5	3		193230 (.25)	
8082A TNYP	PS	**40158029014**	10.0008	5	3		193230 (.25)	

Prep Log Report

Standard Notes:

192096: Ar1242 Spike @20ug/mL 40GCS9. **193230: Pest/PCB Surrogate Spike 40GCSC.**

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Sequence Name: C:\msdchem\1\sequence\050118.s
      Comment:
     Operator:
    Data Path: C:\MSDCHEM\1\DATA\050118\
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  1681428MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1681429LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  40157940-015 x20
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  1681430MS x20
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  1681911DUP x20
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  40157948-008 x2
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  40157948-009 x2
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40157948-011 x10
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  1681432DUP x10
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  40157948-014 x5
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40158017-001 x3
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40158017-002 x3
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40158017-016 –
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40158017-017 –
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  40158017-018 –
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40158017-019 –
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40158017-020 –
     Datafile           --------

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Signed 5-10-18 Date

```
      Method                SCREEN2014
20) Sample          20  1681433DUP  –
      Datafile              --------
      Method                SCREEN2014
21) RearSamp        21  40158029-002 x4
      Datafile              --------
      Method                SCREEN2014
22) Sample          22  40158029-004 x5
      Datafile              --------
      Method                SCREEN2014
23) RearSamp        23  1681434DUP  x5
      Datafile              --------
      Method                SCREEN2014
24) Sample          24  HEXANE
      Datafile              --------
      Method                SCREEN2014
```

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Read and Understood By

Beza Meg 5/10/18 Signed Date

Jim O'Connor 5-10-18 Signed Date

```
   Sequence Name: C:\msdchem\1\sequence\050218.s
         Comment:
        Operator:
       Data Path: C:\MSDCHEM\1\DATA\050218\
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  1681906MB
     Datafile           --------
     Method             SCREEN2014
 4) Sample          4  1681907LCS
     Datafile           --------
     Method             SCREEN2014
 5) RearSamp        5  40157948-001 x5
     Datafile           --------
     Method             SCREEN2014
 6) Sample          6  40157948-002 x3
     Datafile           --------
     Method             SCREEN2014
 7) RearSamp        7  40157948-007 x5
     Datafile           --------
     Method             SCREEN2014
 8) Sample          8  1681908MS x5
     Datafile           --------
     Method             SCREEN2014
 9) RearSamp        9  1681909DUP x5
     Datafile           --------
     Method             SCREEN2014
10) Sample         10  40157948-012 x20
     Datafile           --------
     Method             SCREEN2014
11) RearSamp       11  40158013-011 x20
     Datafile           --------
     Method             SCREEN2014
12) Sample         12  40158013-012 x15
     Datafile           --------
     Method             SCREEN2014
13) RearSamp       13  40158017-003 x5
     Datafile           --------
     Method             SCREEN2014
14) Sample         14  40158017-004 x4
     Datafile           --------
     Method             SCREEN2014
15) RearSamp       15  40158017-005 x30
     Datafile           --------
     Method             SCREEN2014
16) Sample         16  40158017-006 x20
     Datafile           --------
     Method             SCREEN2014
17) RearSamp       17  1681910DUP x20
     Datafile           --------
     Method             SCREEN2014
18) Sample         18  40158017-007 x15
     Datafile           --------
     Method             SCREEN2014
19) RearSamp       19  40158017-008 x20
     Datafile           --------

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Signed: Beyn Meyl Date: 5/10/18

Signed: Jim O'Conn Date: 5-10-18

```
      Method                SCREEN2014
20)   Sample        20      40158017-009 x20
      Datafile              --------
      Method                SCREEN2014
21)   RearSamp      21      40158017-010 x20
      Datafile              --------
      Method                SCREEN2014
22)   Sample        22      40158029-001 x15
      Datafile              --------
      Method                SCREEN2014
23)   RearSamp      23      40158029-005 x2
      Datafile              --------
      Method                SCREEN2014
24)   Sample        24      HEXANE
      Datafile              --------
      Method                SCREEN2014
```

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```
    Sequence Name: C:\msdchem\1\sequence\050418.s
          Comment:
         Operator:
        Data Path: C:\MSDCHEM\1\DATA\050418\
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  1683452MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1683453LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  40157948-006 x5
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  1683454DUP x5
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40158017-011 —
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  1683455MS —
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  1683456DUP —
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40158017-012 —
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40158017-013 —
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40158017-014 —
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40158017-015 —
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40158029-003 x5
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  40158029-012 x2
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  1683457DUP x2
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  40158029-013 x2
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40158029-014 x2
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  1682663MB
     Datafile          --------
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```

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Signed: Barry Meagher Date: 5/10/18 Signed: Jim O'Connor Date: 5-10-18

```
   Sequence Name: C:\msdchem\1\sequence\050318.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\050318\
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          050318001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          050318002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          050318003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          050318004
     Method            GEBIOTA2017
 6) RearSamp        5  HEXANE
     Datafile          050318005
     Method            GEBIOTA2017
 7) Sample          6  HEXANE
     Datafile          050318006
     Method            GEBIOTA2017
 8) RearSamp        7  1232-CAL3S,185539:1,17762,NSA
     Datafile          050318007
     Method            GEBIOTA2017
 9) Sample          8  1232-CAL3S,185539:1,17761,NSA
     Datafile          050318008
     Method            GEBIOTA2017
10) RearSamp        9  1221-CAL1F,188138:1,17762,NSA
     Datafile          050318009
     Method            GEBIOTA2017
11) Sample         10  1221-CAL1F,188138:1,17761,NSA
     Datafile          050318010
     Method            GEBIOTA2017
12) RearSamp       11  1221-CAL2F,188139:1,17762,NSA
     Datafile          050318011
     Method            GEBIOTA2017
13) Sample         12  1221-CAL2F,188139:1,17761,NSA
     Datafile          050318012
     Method            GEBIOTA2017
14) RearSamp       13  1221-CAL3F,185538:1,17762,NSA
     Datafile          050318013
     Method            GEBIOTA2017
15) Sample         14  1221-CAL3F,185538:1,17761,NSA
     Datafile          050318014
     Method            GEBIOTA2017
16) RearSamp       15  1221-CAL4F,188140:1,17762,NSA
     Datafile          050318015
     Method            GEBIOTA2017
17) Sample         16  1221-CAL4F,188140:1,17761,NSA
     Datafile          050318016
     Method            GEBIOTA2017
18) RearSamp       17  1221-CAL5F,188141:1,17762,NSA
     Datafile          050318017
     Method            GEBIOTA2017
19) Sample         18  1221-CAL5F,188141:1,17761,NSA
     Datafile          050318018
     Method            GEBIOTA2017
20) RearSamp       19  HEXANE

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```
      Datafile          050318019
      Method            GEBIOTA2017
21) Sample        20    HEXANE
      Datafile          050318020
      Method            GEBIOTA2017
22) RearSamp      21    1242-CAL1B,188132:1,17762,NSA
      Datafile          050318021
      Method            GEBIOTA2017
23) Sample        22    1242-CAL1B,188132:1,17761,NSA
      Datafile          050318022
      Method            GEBIOTA2017
24) RearSamp      23    1242-CAL2B,185543:1,17762,NSA
      Datafile          050318023
      Method            GEBIOTA2017
25) Sample        24    1242-CAL2B,185543:1,17761,NSA
      Datafile          050318024
      Method            GEBIOTA2017
26) RearSamp      25    1242-CAL3B,185544:1,17762,NSA
      Datafile          050318025
      Method            GEBIOTA2017
27) Sample        26    1242-CAL3B,185544:1,17761,NSA
      Datafile          050318026
      Method            GEBIOTA2017
28) RearSamp      27    1242-CAL4B,185545:1,17762,NSA
      Datafile          050318027
      Method            GEBIOTA2017
29) Sample        28    1242-CAL4B,185545:1,17761,NSA
      Datafile          050318028
      Method            GEBIOTA2017
30) RearSamp      29    1242-CAL5B,185546:1,17762,NSA
      Datafile          050318029
      Method            GEBIOTA2017
31) Sample        30    1242-CAL5B,185546:1,17761,NSA
      Datafile          050318030
      Method            GEBIOTA2017
32) RearSamp      31    HEXANE
      Datafile          050318031
      Method            GEBIOTA2017
33) Sample        32    HEXANE
      Datafile          050318032
      Method            GEBIOTA2017
34) RearSamp      33    1248-CAL1D,188134:1,17762,NSA
      Datafile          050318033
      Method            GEBIOTA2017
35) Sample        34    1248-CAL1D,188134:1,17761,NSA
      Datafile          050318034
      Method            GEBIOTA2017
36) RearSamp      35    1248-CAL2D,185548:1,17762,NSA
      Datafile          050318035
      Method            GEBIOTA2017
37) Sample        36    1248-CAL2D,185548:1,17761,NSA
      Datafile          050318036
      Method            GEBIOTA2017
38) RearSamp      37    1248-CAL3D,185549:1,17762,NSA
      Datafile          050318037
      Method            GEBIOTA2017
39) Sample        38    1248-CAL3D,185549:1,17761,NSA
      Datafile          050318038
      Method            GEBIOTA2017
40) RearSamp      39    1248-CAL4D,185550:1,17762,NSA
      Datafile          050318039
      Method            GEBIOTA2017
41) Sample        40    1248-CAL4D,185550:1,17761,NSA
      Datafile          050318040
      Method            GEBIOTA2017
42) RearSamp      41    1248-CAL5D,185551:1,17762,NSA
      Datafile          050318041
      Method            GEBIOTA2017
43) Sample        42    1248-CAL5D,185551:1,17761,NSA
      Datafile          050318042
      Method            GEBIOTA2017

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Sequence Name: C:\msdchem\1\sequence\050318.s

Line	Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	43	050318043	GEBIOTA2017	HEXANE
45)	Sample	44	050318044	GEBIOTA2017	HEXANE
46)	RearSamp	45	050318045	GEBIOTA2017	1254-CAL1C,188135:1,17762,NSA
47)	Sample	46	050318046	GEBIOTA2017	1254-CAL1C,188135:1,17761,NSA
48)	RearSamp	47	050318047	GEBIOTA2017	1254-CAL2C,185553:1,17762,NSA
49)	Sample	48	050318048	GEBIOTA2017	1254-CAL2C,185553:1,17761,NSA
50)	RearSamp	49	050318049	GEBIOTA2017	1254-CAL3C,185554:1,17762,NSA
51)	Sample	50	050318050	GEBIOTA2017	1254-CAL3C,185554:1,17761,NSA
52)	RearSamp	51	050318051	GEBIOTA2017	1254-CAL4C,185555:1,17762,NSA
53)	Sample	52	050318052	GEBIOTA2017	1254-CAL4C,185555:1,17761,NSA
54)	RearSamp	53	050318053	GEBIOTA2017	1254-CAL5C,185556:1,17762,NSA
55)	Sample	54	050318054	GEBIOTA2017	1254-CAL5C,185556:1,17761,NSA
56)	RearSamp	55	050318055	GEBIOTA2017	HEXANE
57)	Sample	56	050318056	GEBIOTA2017	HEXANE
58)	RearSamp	57	050318057	GEBIOTA2017	1660-CAL1A,188136:1,17762,AR1
59)	Sample	58	050318058	GEBIOTA2017	1660-CAL1A,188136:1,17761,AR1
60)	RearSamp	59	050318059	GEBIOTA2017	1660-CAL2A,185558:1,17762,AR1
61)	Sample	60	050318060	GEBIOTA2017	1660-CAL2A,185558:1,17761,AR1
62)	RearSamp	61	050318061	GEBIOTA2017	1660-CAL3A,185559:1,17762,AR1
63)	Sample	62	050318062	GEBIOTA2017	1660-CAL3A,185559:1,17761,AR1
64)	RearSamp	63	050318063	GEBIOTA2017	1660-CAL4A,185560:1,17762,AR1
65)	Sample	64	050318064	GEBIOTA2017	1660-CAL4A,185560:1,17761,AR1
66)	RearSamp	65	050318065		1660-CAL5A,185561:1,17762,AR1

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```
      Method                GEBIOTA2017
67) Sample          66  1660-CAL5A,185561:1,17761,AR1
      Datafile              050318066
      Method                GEBIOTA2017
68) RearSamp        67  HEXANE
      Datafile              050318067
      Method                GEBIOTA2017
69) Sample          68  HEXANE
      Datafile              050318068
      Method                GEBIOTA2017
70) RearSamp        69  1221-ICV,188142:1,17762,AR122 ok
      Datafile              050318069
      Method                GEBIOTA2017
71) Sample          70  1221-ICV,188142:1,17761,AR122 ok
      Datafile              050318070
      Method                GEBIOTA2017
72) RearSamp        71  1242-ICV,185562:1,17762,AR124 ok
      Datafile              050318071
      Method                GEBIOTA2017
73) Sample          72  1242-ICV,185562:1,17761,AR124 ok
      Datafile              050318072
      Method                GEBIOTA2017
74) RearSamp        73  1248-ICV,185563:1,17762,AR124 ok
      Datafile              050318073
      Method                GEBIOTA2017
75) Sample          74  1248-ICV,185563:1,17761,AR124 ok
      Datafile              050318074
      Method                GEBIOTA2017
76) RearSamp        75  1254-ICV,185564:1,17762,AR125 ok
      Datafile              050318075
      Method                GEBIOTA2017
77) Sample          76  1254-ICV,185564:1,17761,AR125 F
      Datafile              050318076
      Method                GEBIOTA2017
78) RearSamp        77  1660-ICV,185565:1,17762,AR166 ok
      Datafile              050318077
      Method                GEBIOTA2017
79) Sample          78  1660-ICV,185565:1,17761,AR166 F
      Datafile              050318078
      Method                GEBIOTA2017
80) RearSamp        79  1679886,,17744,BIOTA
      Datafile              050318079
      Method                GEBIOTA2017
81) Sample          80  1681428,,17750,BIOTA
      Datafile              050318080
      Method                GEBIOTA2017
82) RearSamp        81  1679887,,17744,BIOTA
      Datafile              050318081
      Method                GEBIOTA2017
83) Sample          82  1681429,,17750,BIOTA
      Datafile              050318082
      Method                GEBIOTA2017
84) RearSamp        83  40158013001 x2,,17744,BIOTA
      Datafile              050318083
      Method                GEBIOTA2017
85) Sample          84  40157940015 x20,,17750,BIOTA
      Datafile              050318084
      Method                GEBIOTA2017
86) RearSamp        85  40158013002 x5,,17744,BIOTA
      Datafile              050318085
      Method                GEBIOTA2017
87) Sample          86  1681430 x20,,17750,BIOTA
      Datafile              050318086
      Method                GEBIOTA2017
88) RearSamp        87  40158013003 x5,,17744,BIOTA
      Datafile              050318087
      Method                GEBIOTA2017
89) Sample          88  1681911 x20,,17750,BIOTA
      Datafile              050318088
      Method                GEBIOTA2017
90) RearSamp        89  40158013004 x5,,17744,BIOTA
      Datafile              050318089
```

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Read and Understood By

Signed 5/7/18 Date Signed 5/7/18 Date

```
      Method              GEBIOTA2017
91) Sample          90  40157948008 x2,,17750,BIOTA
      Datafile            050318090
      Method              GEBIOTA2017
92) RearSamp        91  40158013005,,17744,BIOTA
      Datafile            050318091
      Method              GEBIOTA2017
93) Sample          92  40157948009 x2,,17750,BIOTA
      Datafile            050318092
      Method              GEBIOTA2017
94) RearSamp        93  40158028001 x6,,17744,BIOTA
      Datafile            050318093
      Method              GEBIOTA2017
95) Sample          94  40157948011 x10,,17750,BIOTA
      Datafile            050318094
      Method              GEBIOTA2017
96) RearSamp        95  40158028002 x5,,17744,BIOTA
      Datafile            050318095
      Method              GEBIOTA2017
```

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Read and Understood By

Signed 5/7/18 Date Signed 5/7/18 Date

Sequence Name: C:\msdchem\1\sequence\050318.s

	Line Type	Vial	DataFile	Method	Sample Name
97)	Sample	96	1681432 x10,,17750,BIOTA		
	Datafile		050318096		
	Method			GEBIOTA2017	
98)	RearSamp	97	40158028003 x4,,17744,BIOTA		
	Datafile		050318097		
	Method			GEBIOTA2017	
99)	Sample	98	40157948014 x5,,17750,BIOTA		
	Datafile		050318098		
	Method			GEBIOTA2017	
100)	RearSamp	99	1221-CCV,185538:1,17762,AR122 OK		
	Datafile		050318099		
	Method			GEBIOTA2017	
101)	Sample	100	1221-CCV,185538:1,17761,AR122		
	Datafile		050318100		
	Method			GEBIOTA2017	
102)	RearSamp	1	1221-CCV,185538:1,17762,AR122 OK		
	Datafile		050318101		
	Method			GEBIOTA2017	
103)	Sample	2	1221-CCV,185538:1,17761,AR122		
	Datafile		050318102		
	Method			GEBIOTA2017	
104)	RearSamp	3	40158028004 x10,,17744,BIOTA		
	Datafile		050318103		
	Method			GEBIOTA2017	
105)	Sample	4	40158017001 x3,,17750,BIOTA		
	Datafile		050318104		
	Method			GEBIOTA2017	
106)	RearSamp	5	40158028005 x10,,17744,BIOTA		
	Datafile		050318105		
	Method			GEBIOTA2017	
107)	Sample	6	40158017002 x3,,17750,BIOTA		
	Datafile		050318106		
	Method			GEBIOTA2017	
108)	RearSamp	7	40158028006 x6,,17744,BIOTA		
	Datafile		050318107		
	Method			GEBIOTA2017	
109)	Sample	8	40158017016,,17750,BIOTA		
	Datafile		050318108		
	Method			GEBIOTA2017	
110)	RearSamp	9	40158028007 x5,,17744,BIOTA		
	Datafile		050318109		
	Method			GEBIOTA2017	
111)	Sample	10	40158017017,,17750,BIOTA		
	Datafile		050318110		
	Method			GEBIOTA2017	
112)	RearSamp	11	40158028008 x5,,17744,BIOTA		
	Datafile		050318111		
	Method			GEBIOTA2017	
113)	Sample	12	40158017018,,17750,BIOTA		
	Datafile		050318112		
	Method			GEBIOTA2017	
114)	RearSamp	13	40158028009 x5,,17744,BIOTA		
	Datafile		050318113		
	Method			GEBIOTA2017	
115)	Sample	14	40158017019,,17750,BIOTA		
	Datafile		050318114		
	Method			GEBIOTA2017	
116)	RearSamp	15	40158028010 x5,,17744,BIOTA		
	Datafile		050318115		
	Method			GEBIOTA2017	
117)	Sample	16	40158017020,,17750,BIOTA		
	Datafile		050318116		
	Method			GEBIOTA2017	
118)	RearSamp	17	40158028011 x4,,17744,BIOTA		
	Datafile		050318117		
	Method			GEBIOTA2017	
119)	Sample	18	1681433,,17750,BIOTA		
	Datafile		050318118		

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Read and Understood By

Signed 5/7/18 Date

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```
        Method                  GEBIOTA2017
120) RearSamp        19  40158028012 x5,,17744,BIOTA
        Datafile                050318119
        Method                  GEBIOTA2017
121) Sample          20  40158029002 x4,,17750,BIOTA
        Datafile                050318120
        Method                  GEBIOTA2017
122) RearSamp        21  40158028013 x5,,17744,BIOTA
        Datafile                050318121
        Method                  GEBIOTA2017
123) Sample          22  40158029004 x5,,17750,BIOTA
        Datafile                050318122
        Method                  GEBIOTA2017
124) RearSamp        23  1232-CCV,185539:1,17762,AR123 ok
        Datafile                050318123
        Method                  GEBIOTA2017
125) Sample          24  1232-CCV,185539:1,17761,AR123
        Datafile                050318124
        Method                  GEBIOTA2017
126) RearSamp        25  1232-CCV,185539:1,17762,AR123 ok
        Datafile                050318125
        Method                  GEBIOTA2017
127) Sample          26  1232-CCV,185539:1,17761,AR123
        Datafile                050318126
        Method                  GEBIOTA2017
128) RearSamp        27  40158028014 x4,,17744,BIOTA
        Datafile                050318127
        Method                  GEBIOTA2017
129) Sample          28  1681434 x5,,17750,BIOTA
        Datafile                050318128
        Method                  GEBIOTA2017
130) RearSamp        29  40158028015 x3,,17744,BIOTA
        Datafile                050318129
        Method                  GEBIOTA2017
131) Sample          30  HEXANE
        Datafile                050318130
        Method                  GEBIOTA2017
132) RearSamp        31  1679888 x4,,17744,BIOTA
        Datafile                050318131
        Method                  GEBIOTA2017
133) Sample          32  HEXANE
        Datafile                050318132
        Method                  GEBIOTA2017
134) RearSamp        33  1679889 x3,,17744,BIOTA
        Datafile                050318133
        Method                  GEBIOTA2017
135) Sample          34  HEXANE
        Datafile                050318134
        Method                  GEBIOTA2017
136) RearSamp        35  1242-CCV,185544:1,17762,AR124 ok
        Datafile                050318135
        Method                  GEBIOTA2017
137) Sample          36  1242-CCV,185544:1,17761,AR124
        Datafile                050318136
        Method                  GEBIOTA2017
138) RearSamp        37  1242-CCV,185544:1,17762,AR124 ok
        Datafile                050318137
        Method                  GEBIOTA2017
139) Sample          38  1242-CCV,185544:1,17761,AR124
        Datafile                050318138
        Method                  GEBIOTA2017
```

* ICVs for 40GCSJ did not meet criteria, this column run will not be used.
** GCSV Batch 17744 was screened 40GCSI 04/30/18 BLM 5/7/18

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Read and Understood By

Signed 5/7/18 Date Signed 5/7/18 Date

```
   Sequence Name: C:\msdchem\1\sequence\050718.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\050718\
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         050718001
      Method           GEBIOTA2017
 2) Sample          2  HEXANE
      Datafile         050718002
      Method           GEBIOTA2017
 3) Sample          3  HEXANE
      Datafile         050718003
      Method           GEBIOTA2017
 4) Sample          4  1248-CCV,185549:1,17762,AR124 OK
      Datafile         050718004
      Method           GEBIOTA2017
 5) Sample          5  1248-CCV,185549:1,17762,AR124 OK
      Datafile         050718005
      Method           GEBIOTA2017
 6) Sample          6  1681428,,17750,BIOTA
      Datafile         050718006
      Method           GEBIOTA2017
 7) Sample          7  1681429,,17750,BIOTA
      Datafile         050718007
      Method           GEBIOTA2017
 8) Sample          8  40157940015 x20,,17750,BIOTA
      Datafile         050718008
      Method           GEBIOTA2017
 9) Sample          9  1681430 x20,,17750,BIOTA
      Datafile         050718009
      Method           GEBIOTA2017
10) Sample         10  1681911 x20,,17750,BIOTA
      Datafile         050718010
      Method           GEBIOTA2017
11) Sample         11  40157948008 x2,,17750,BIOTA
      Datafile         050718011
      Method           GEBIOTA2017
12) Sample         12  40157948009 x2,,17750,BIOTA
      Datafile         050718012
      Method           GEBIOTA2017
13) Sample         13  40157948011 x10,,17750,BIOTA
      Datafile         050718013
      Method           GEBIOTA2017
14) Sample         14  1681432 x10,,17750,BIOTA
      Datafile         050718014
      Method           GEBIOTA2017
15) Sample         15  40157948014 x5,,17750,BIOTA
      Datafile         050718015
      Method           GEBIOTA2017
16) Sample         16  1254-CCV,185554:1,17762,AR125 OK
      Datafile         050718016
      Method           GEBIOTA2017
17) Sample         17  1254-CCV,185554:1,17762,AR125 OK
      Datafile         050718017
      Method           GEBIOTA2017
18) Sample         18  40158017001 x3,,17750,BIOTA DS
      Datafile         050718018
      Method           GEBIOTA2017
19) Sample         19  40158017002 x3,,17750,BIOTA
      Datafile         050718019

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```

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Read and Understood By

Bryan Meyl 5/10/18 Signed Date

Jim O'Connor 5-10-18 Signed Date

```
      Method              GEBIOTA2017
20) Sample        20  40158017016,,17750,BIOTA
      Datafile            050718020
      Method              GEBIOTA2017
21) Sample        21  40158017017,,17750,BIOTA
      Datafile            050718021
      Method              GEBIOTA2017
22) Sample        22  40158017018,,17750,BIOTA
      Datafile            050718022
      Method              GEBIOTA2017
23) Sample        23  40158017019,,17750,BIOTA
      Datafile            050718023
      Method              GEBIOTA2017
24) Sample        24  40158017020,,17750,BIOTA
      Datafile            050718024
      Method              GEBIOTA2017
25) Sample        25  1681433,,17750,BIOTA
      Datafile            050718025
      Method              GEBIOTA2017
26) Sample        26  40158029002 x4,,17750,BIOTA
      Datafile            050718026
      Method              GEBIOTA2017
27) Sample        27  40158029004 x5,,17750,BIOTA
      Datafile            050718027
      Method              GEBIOTA2017
28) Sample        28  1660-CCV,185559:1,17762,AR166 ok
      Datafile            050718028
      Method              GEBIOTA2017
29) Sample        29  1660-CCV,185559:1,17762,AR166 ok
      Datafile            050718029
      Method              GEBIOTA2017
30) Sample        30  1681434 x5,,17750,BIOTA
      Datafile            050718030
      Method              GEBIOTA2017
31) Sample        31  1681906,,17754,BIOTA
      Datafile            050718031
      Method              GEBIOTA2017
32) Sample        32  1681907,,17754,BIOTA
      Datafile            050718032
      Method              GEBIOTA2017
33) Sample        33  40157948001 x5,,17754,BIOTA
      Datafile            050718033
      Method              GEBIOTA2017
34) Sample        34  40157948002 x3,,17754,BIOTA
      Datafile            050718034
      Method              GEBIOTA2017
35) Sample        35  40157948007 x5,,17754,BIOTA
      Datafile            050718035
      Method              GEBIOTA2017
36) Sample        36  1681908 x5,,17754,BIOTA
      Datafile            050718036
      Method              GEBIOTA2017
37) Sample        37  1681909 x5,,17754,BIOTA
      Datafile            050718037
      Method              GEBIOTA2017
38) Sample        38  40157948012 x20,,17754,BIOTA
      Datafile            050718038
      Method              GEBIOTA2017
39) Sample        39  40158013011 x20,,17754,BIOTA
      Datafile            050718039
      Method              GEBIOTA2017
40) Sample        40  1221-CCV,185538:1,17762,AR122 ok
      Datafile            050718040
      Method              GEBIOTA2017
41) Sample        41  1221-CCV,185538:1,17762,AR122 ok
      Datafile            050718041
      Method              GEBIOTA2017
42) Sample        42  40158013012 x15,,17754,BIOTA
      Datafile            050718042
      Method              GEBIOTA2017
43) Sample        43  40158017003 x5,,17754,BIOTA
      Datafile            050718043

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```

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Read and Understood By

Beg Meagl 5/10/18 Signed Date

Jim O'Grann 5-10-18 Signed Date

Sequence Name: C:\msdchem\1\sequence\050718.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	40158017004	x4,,	17754,BIOTA
	Datafile		050718044		
	Method		GEBIOTA2017		
45)	Sample	45	40158017005	x30,,	17754,BIOTA
	Datafile		050718045		
	Method		GEBIOTA2017		
46)	Sample	46	40158017006	x20,,	17754,BIOTA
	Datafile		050718046		
	Method		GEBIOTA2017		
47)	Sample	47	1681910	x20,,	17754,BIOTA
	Datafile		050718047		
	Method		GEBIOTA2017		
48)	Sample	48	40158017007	x15,,	17754,BIOTA
	Datafile		050718048		
	Method		GEBIOTA2017		
49)	Sample	49	40158017008	x20,,	17754,BIOTA
	Datafile		050718049		
	Method		GEBIOTA2017		
50)	Sample	50	40158017009	x20,,	17754,BIOTA
	Datafile		050718050		
	Method		GEBIOTA2017		
51)	Sample	51	40158017010	x20,,	17754,BIOTA
	Datafile		050718051		
	Method		GEBIOTA2017		
52)	Sample	52	1232-CCV,185539:1,	17762,	AR123 OK
	Datafile		050718052		
	Method		GEBIOTA2017		
53)	Sample	53	1232-CCV,185539:1,	17762,	AR123 OK
	Datafile		050718053		
	Method		GEBIOTA2017		
54)	Sample	54	40158029001	x15,,	17754,BIOTA
	Datafile		050718054		
	Method		GEBIOTA2017		
55)	Sample	55	40158029005	x2,,	17754,BIOTA
	Datafile		050718055		
	Method		GEBIOTA2017		
56)	Sample	56	1682672,,	17763,	BIOTA
	Datafile		050718056		
	Method		GEBIOTA2017		
57)	Sample	57	1682673,,	17763,	BIOTA
	Datafile		050718057		
	Method		GEBIOTA2017		
58)	Sample	58	40157948003	x4,,	17763,BIOTA
	Datafile		050718058		
	Method		GEBIOTA2017		
59)	Sample	59	40157948004	x2,,	17763,BIOTA
	Datafile		050718059		
	Method		GEBIOTA2017		
60)	Sample	60	40157948005	x5,,	17763,BIOTA RS
	Datafile		050718060		
	Method		GEBIOTA2017		
61)	Sample	61	40157948010	x5,,	17763,BIOTA
	Datafile		050718061		
	Method		GEBIOTA2017		
62)	Sample	62	1682674	x5,,	17763,BIOTA
	Datafile		050718062		
	Method		GEBIOTA2017		
63)	Sample	63	40157948013	x5,,	17763,BIOTA RS
	Datafile		050718063		
	Method		GEBIOTA2017		
64)	Sample	64	1242-CCV,185544:1,	17762,	AR124 OK
	Datafile		050718064		
	Method		GEBIOTA2017		
65)	Sample	65	1242-CCV,185544:1,	17762,	AR124 OK
	Datafile		050718065		
	Method		GEBIOTA2017		
66)	Sample	66	40158013006	x10,,	17763,BIOTA
	Datafile		050718066		

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Read and Understood By

Signed: Bryan Meyer Date: 5/10/18

Signed: Jim O'Connor Date: 5-10-18

```
      Method                GEBIOTA2017
67) Sample          67  40158013007 x10,,17763,BIOTA
      Datafile              050718067
      Method                GEBIOTA2017
68) Sample          68  40158013008 x10,,17763,BIOTA
      Datafile              050718068
      Method                GEBIOTA2017
69) Sample          69  40158013009 x10,,17763,BIOTA
      Datafile              050718069
      Method                GEBIOTA2017
70) Sample          70  40158029006 x2,,17763,BIOTA
      Datafile              050718070
      Method                GEBIOTA2017
71) Sample          71  40158029007 x2,,17763,BIOTA
      Datafile              050718071
      Method                GEBIOTA2017
72) Sample          72  40158029008 x3,,17763,BIOTA
      Datafile              050718072
      Method                GEBIOTA2017
73) Sample          73  40158029009 x3,,17763,BIOTA
      Datafile              050718073
      Method                GEBIOTA2017
74) Sample          74  40158029010 x2,,17763,BIOTA
      Datafile              050718074
      Method                GEBIOTA2017
75) Sample          75  1682675 x2,,17763,BIOTA
      Datafile              050718075
      Method                GEBIOTA2017
76) Sample          76  1248-CCV,185549:1,17762,AR124 OK
      Datafile              050718076
      Method                GEBIOTA2017
77) Sample          77  1248-CCV,185549:1,17762,AR124 OK
      Datafile              050718077
      Method                GEBIOTA2017
78) Sample          78  1682677 x2,,17763,BIOTA
      Datafile              050718078
      Method                GEBIOTA2017
79) Sample          79  40158029011 x2,,17763,BIOTA
      Datafile              050718079
      Method                GEBIOTA2017
80) Sample          80  1683452,,17773,BIOTA
      Datafile              050718080
      Method                GEBIOTA2017
81) Sample          81  1683453,,17773,BIOTA
      Datafile              050718081
      Method                GEBIOTA2017
82) Sample          82  40157948006 x5,,17773,BIOTA
      Datafile              050718082
      Method                GEBIOTA2017
83) Sample          83  1683454 x5,,17773,BIOTA RS
      Datafile              050718083
      Method                GEBIOTA2017
84) Sample          84  40158017011,,17773,BIOTA
      Datafile              050718084
      Method                GEBIOTA2017
85) Sample          85  1683455,,17773,BIOTA
      Datafile              050718085
      Method                GEBIOTA2017
86) Sample          86  1683456,,17773,BIOTA
      Datafile              050718086
      Method                GEBIOTA2017
87) Sample          87  40158017012,,17773,BIOTA
      Datafile              050718087
      Method                GEBIOTA2017
88) Sample          88  1254-CCV,185554:1,17762,AR125 OK
      Datafile              050718088
      Method                GEBIOTA2017
89) Sample          89  1254-CCV,185554:1,17762,AR125 OK
      Datafile              050718089
      Method                GEBIOTA2017
90) Sample          90  40158017013,,17773,BIOTA
      Datafile              050718090

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```

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Read and Understood By

Bryan Meyl — Signed — 5/10/18 — Date

Jim O'Connor — Signed — 5-10-18 — Date

```
      Method                GEBIOTA2017
91) Sample          91  40158017014,,17773,BIOTA
      Datafile              050718091
      Method                GEBIOTA2017
92) Sample          92  40158017015,,17773,BIOTA RS
      Datafile              050718092
      Method                GEBIOTA2017
93) Sample          93  40158029003 x5,,17773,BIOTA
      Datafile              050718093
      Method                GEBIOTA2017
94) Sample          94  40158029012 x2,,17773,BIOTA
      Datafile              050718094
      Method                GEBIOTA2017
95) Sample          95  1683457 x2,,17773,BIOTA
      Datafile              050718095
      Method                GEBIOTA2017
96) Sample          96  40158029013 x2,,17773,BIOTA
      Datafile              050718096
      Method                GEBIOTA2017
```

Sequence Name: C:\msdchem\1\sequence\050718.s

BLM 5/10/18

```
   Line Type          Vial  DataFile  Method    Sample Name
   ---------------------------------------------------------------------
97) Sample          97  40158029014 x2,,17773,BIOTA
      Datafile              050718097
      Method                GEBIOTA2017
98) Sample          98  1660-CCV,185559:1,17762,AR166 OK
      Datafile              050718098
      Method                GEBIOTA2017
99) Sample          99  1660-CCV,185559:1,17762,AR166 OK
      Datafile              050718099
      Method                GEBIOTA2017
```

GCSV Batch 17750 Screened 40GCSI 05/01/18
GCSV Batch 17754 Screened 40GCSI 5/2/18
GCSV Batch 17763 Screened 40GCSI 5/3/18
GCSV Batch 17773 Screened 40GCSI 5/4/18

BLM 5/10/18

Continued on Page —

Read and Understood By

Bryan Maynard — Signed — 5/10/18 — Date
Jim O'Connor — Signed — 5-10-18 — Date

```
    Sequence Name: C:\msdchem\1\sequence\051018.s
          Comment:
         Operator: BLM
        Data Path: C:\MSDCHEM\1\DATA\051018\
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          051018001
     Method            GEBIOTA2017
 2) Sample          2  HEXANE
     Datafile          051018002
     Method            GEBIOTA2017
 3) Sample          3  HEXANE
     Datafile          051018003
     Method            GEBIOTA2017
 4) Sample          4  1221-CCV,185538:1,17762,AR122 ok
     Datafile          051018004
     Method            GEBIOTA2017
 5) Sample          5  40158017001 x4,,17750,BIOTA
     Datafile          051018005
     Method            GEBIOTA2017
 6) Sample          6  40157948005 x6,,17763,BIOTA
     Datafile          051018006
     Method            GEBIOTA2017
 7) Sample          7  40157948013 x6,,17763,BIOTA
     Datafile          051018007
     Method            GEBIOTA2017
 8) Sample          8  1683454 x6,,17773,BIOTA
     Datafile          051018008
     Method            GEBIOTA2017
 9) Sample          9  40158017015,,17773,BIOTA
     Datafile          051018009
     Method            GEBIOTA2017
10) Sample         10  1232-CCV,185539:1,17762,AR123 ok
     Datafile          051018010
     Method            GEBIOTA2017

   Last Modified: Thu May 10 10:33:27 2018                Page:  1
```

BLM 5/10/18

Continued on Page -

Read and Understood By

Bryan Meyer — Signed — 5/10/18 — Date

Jim O'Connor — Signed — 5-10-18 — Date

Standard Log Report

Standards Log Information for Standard #195322

WORKING STANDARD

Created By:	ETB	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	05/02/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	11/02/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By ETB

Compound Name and Concentration for Standard #195322

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #195322

Composed of Standard Seq	Volume	Units
195250	2000	mL
193873	2000	mL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #195250

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405891
Create Date:	05/01/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	03/22/2019	**Manufacturer Lot ID:**	0000194330	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 05/01/18

Compound Name and Concentration for Standard #195250

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #195058

WORKING STANDARD

Created By:	ETB	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	04/30/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	10/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By ETB

Compound Name and Concentration for Standard #195058

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #195058

Composed of Standard Seq	Volume	Units
193872	2000	mL
192551	2000	mL

Standard Log Report

Standards Log Information for Standard #194916

STOCK STANDARD

Created By:	DLH	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/26/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	10/23/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/26/18

Compound Name and Concentration for Standard #194916

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 #194786

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/25/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	10/25/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/25/18

Compound Name and Concentration for Standard #194786

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

Standard Log Report

Standards Log Information for Standard #194642

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	5 kg	**Lot ID:**	405550
Create Date:	04/24/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	10/24/2018	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA baked 4/24/18

Compound Name and Concentration for Standard #194642

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 #193873

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	04/12/2018	**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 #193873

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 #193872

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	04/12/2018	**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 #193872

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 #193230

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	1000 mL	**Lot ID:**	GCSV
Create Date:	04/05/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	10/05/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	8081-SS

Notes:

Pest/PCB Surrogate Spike 40GCSC.i\040618SurrCHK.b\A406068 TCMX-91.42% DCB-91.66%

Compound Name and Concentration for Standard #193230

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Decachlorobiphenyl (S)	2 ug/mL
Tetrachloro-m-xylene (S)	2 ug/mL		

Composed of Information for Standard #193230

Composed of Standard Seq	Volume	Units
190942	999	mL
172034	1	mL

Standard Log Report

Standards Log Information for Standard #192551

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405817
Create Date:	03/28/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	03/22/2019	**Manufacturer Lot ID:**	0000191733	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 3/28/18

Compound Name and Concentration for Standard #192551

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #192096

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	03/22/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/22/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	AR1242-SPK

Notes:

Ar1242 Spike @20ug/mL 40GCS9.i\032318spk.b\A323018 100% Recovery

Compound Name and Concentration for Standard #192096

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	PCB-1242 (Aroclor 1242)	20 ug/mL

Composed of Information for Standard #192096

Composed of Standard Seq	Volume	Units
179368	196	mL
81343	1	mL
81342	1	mL
81341	1	mL
81340	1	mL

Standard Log Report

Standards Log Information for Standard #190942

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	03/08/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #190942

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #188802

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405746
Create Date:	02/08/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	08/07/2018	**Manufacturer Lot ID:**	175507	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #188802

Compound Name	Concentration	Compound Name	Concentration
Florisil			

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

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

The standards listed are from Pace's Green Bay Laboratory.

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		

Standard Log Report

Standards Log Information for Standard #179368

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179368

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #178398

INDIVIDUAL STANDARD

Created By:	DMH	**Volume of Standard:**	1 mL	**Lot ID:**	405520
Create Date:	09/18/2017	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0125833	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405431
Create Date:	08/09/2017	**Manufacturer:**	O2SI	**Part ID:**	130011-03
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	311587	**Standard ID:**	1660-STK

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405386
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030277-06
Expire Date:	03/21/2020	**Manufacturer Lot ID:**	302980	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405385
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030276-15
Expire Date:	01/14/2020	**Manufacturer Lot ID:**	296389	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405384
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030275-03
Expire Date:	03/20/2027	**Manufacturer Lot ID:**	302979	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

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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Date Received: 4/22/14 cre

Certificate of Analysis

Rev 0 **Page**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	226760	Ambient or Less	Hexane	15-Apr-2024	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.3P	1003 +/- 10.66	mg/L

403271
REC.04/22/14 BY CA
Exp. __/__/__ By -
Open __/__/__ By

Certified By: Amanda Ross

Amanda Ross

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

405341
REC. 06/23/17 BY MRN
Exp. --/--/-- By --

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Charleston, South Carolina 29407
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Quality System Audited & Registered
by NSF-ISR to ISO 9001:2008

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130023-15	311236	≤ 6 °C	Tol.:Hex. 1:1	8-Jun-2019	Pesticide Surrogate Solution, 2,000 mg/L, 10 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
decachlorobiphenyl (BZ# 209)	2051-24-3	99.1	301.115.5P	2022 +/- 4.56	mg/L
2,4,5,6-tetrachloro-m-xylene	877-09-8	98.6	300.115.3P	1996 +/- 14.54	mg/L

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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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)

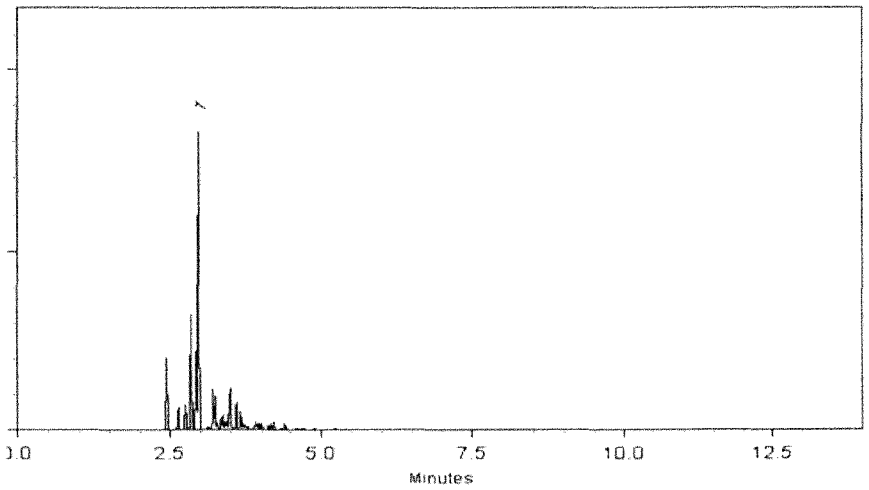
Carrier Gas:
helium-constant pressure 20 psi.

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)

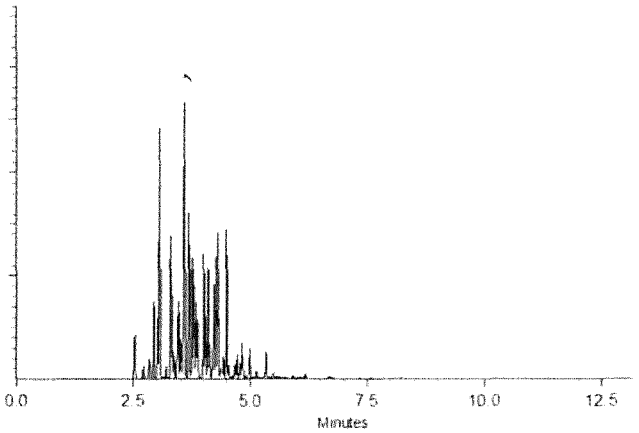
Carrier Gas:
helium-constant pressure 20 psi.

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)

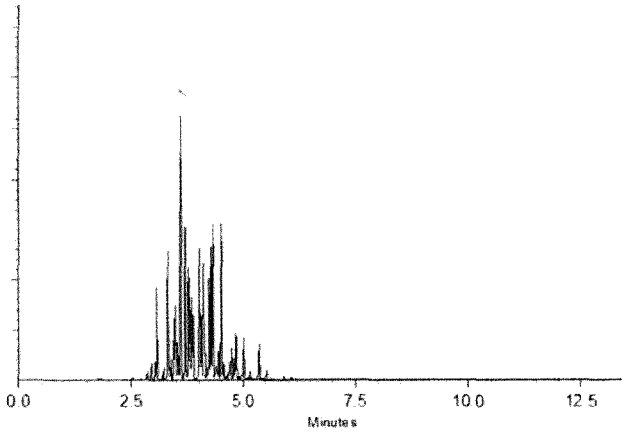
Carrier Gas:
helium-constant pressure 20 psi.

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)

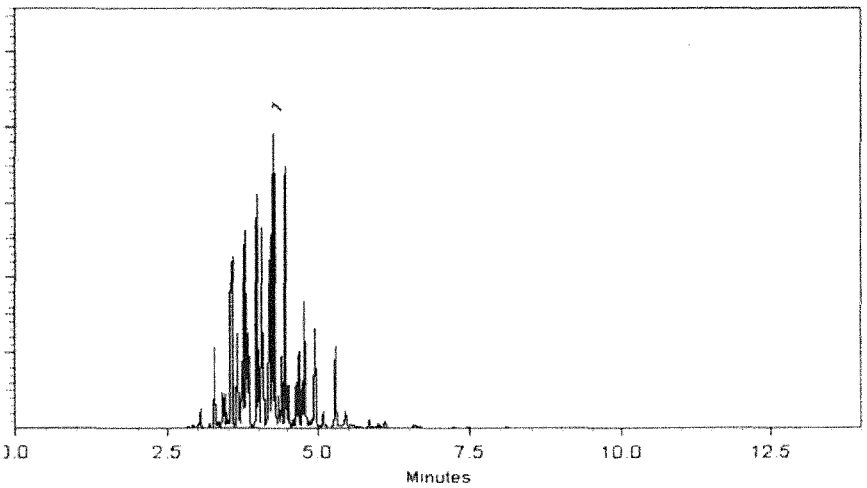
Carrier Gas:
helium-constant pressure 20 psi.

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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Certificate #3222.02

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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 __
Open __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

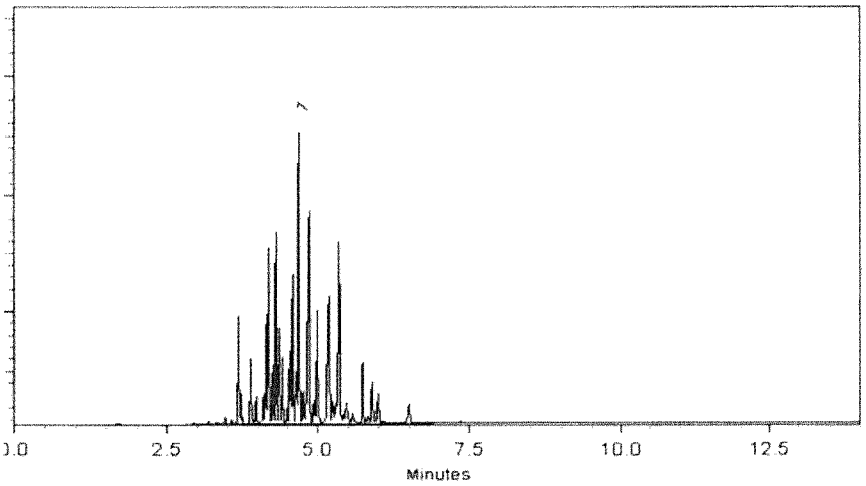
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

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Certificate #FM 80397

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 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)

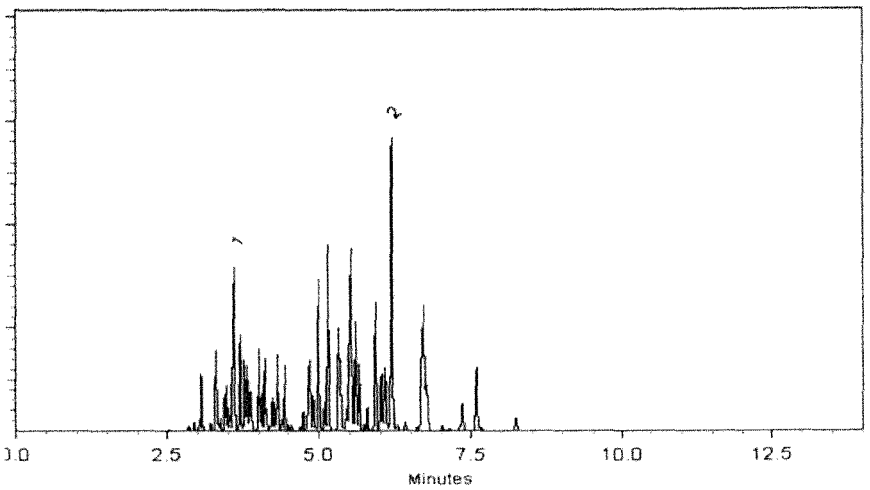
Carrier Gas:
helium-constant pressure 20 psi.

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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Date Received: _____

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030276-15	296389	≤ Ambient	Hexane	14-Jan-2020	Aroclor 1248 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1248	12672-29-6	100	276.3.1P	1008 +/- 4.47	mg/L

405385
REC. 07/13/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Katrina Emelianoff

Manufacture Date 9-Jan-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030277-06	302980	≤ Ambient	Hexane	21-Mar-2020	Aroclor 1254 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1254	11097-69-1	100	277.6.4P	1004 +/- 4.32	mg/L

405386
REC. 07/13/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130011-03	311587	≤ Ambient	Hexane	28-Jul-2020	Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1016	12674-11-2	100	272.5.1.6P	1006 +/- 3.01	mg/L
Aroclor 1260	11096-82-5	100	278.3.10P	1016 +/- 3.02	mg/L

405431
REC. 08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0125833

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

dmh 9-18-17

405520
REC.09/18/17 BY DMH
Exp. __/__/__ By --
Open __/__/__ By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3844	µg/mL	Unstressed
	Purity 98%			+/- 8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.9 µg/mL	+/- 1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3975	µg/mL	Unstressed
	Purity 99%			+/- 8.3581	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

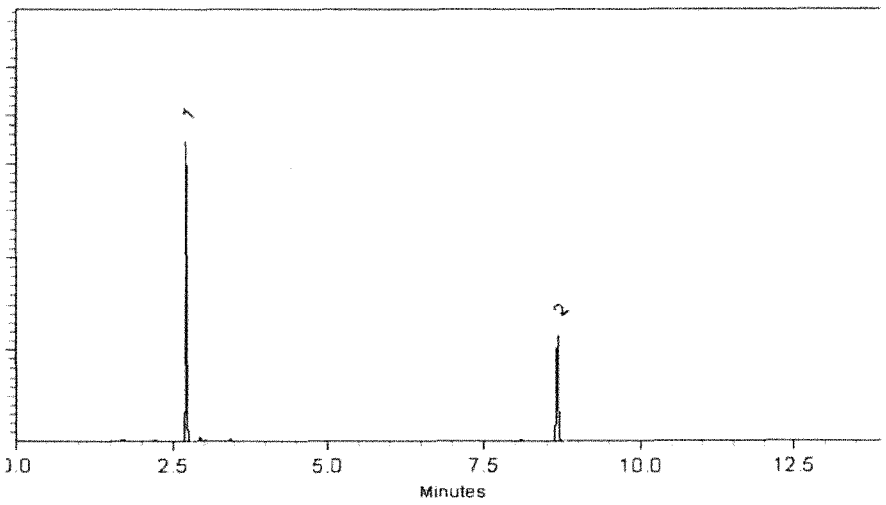
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 15-Mar-2017 **Balance:** B345965662

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 17-Mar-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

405532
REC. 09/29/17 BY MRN
Exp. --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

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Muskegon, MI 49442
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Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS490
Production Date:	10-Jul-2017
Best Before:	8-Jan-2019

Acetone, B&J Brand™, >99.9%

for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.31	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.97	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0481	AU
UV Absorbance @ 350 nm		0.010	0.0014	AU
UV Absorbance @ 375 nm		0.005	<0.0001	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 7/11/2017 LIMS Sample No.: AI07427

405540
REC. 10/09/17 BY MRI
Exp. --/--/-- By --
Open / / By

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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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** 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)

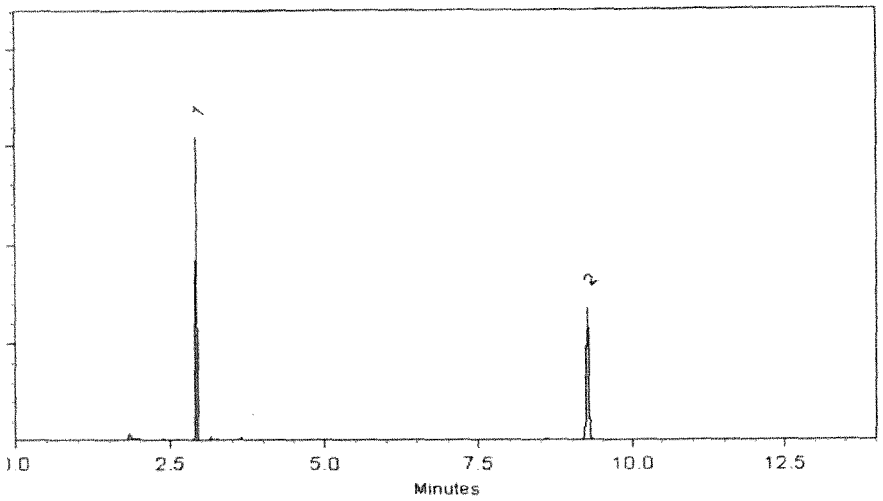
Carrier Gas:
helium-constant pressure 20 psi.

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

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ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 1 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
020986-02 -02-SS	297165	≤ -10 °C	P/T Methanol	16-Jan-2020	Dichlorofluoromethane (Freon 21) Gas Solution, Second Source, 2000 mg/L, 2 x 0.6 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
dichlorofluoromethane (Freon 21)	75-43-4	99	986.158.2.2.1S	2008 +/- 20.85 mg/L

405766
REC. 02/26/18 BY SMT
Exp. --/--/-- By --
Open / / By

4388-13

189977 – 189980

Certified By: Madeline Luby

Madeline Luby
Manufacture Date 16-Jan-2017

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system that is accredited to ISO 17034 and ISO/IEC 17025.

Second Source standards are prepared according to NELAC

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.
The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

J.T.Baker | avantor

405817
REC.03/28/18 BY AMC
Exp. --/--/-- By --
Open --/--/-- By --

Material No.: 9262-8P
Batch No.: 0000191733
Manufactured Date: 2017/12/21
Expiration Date: 2019/03/22

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	100.0
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.3
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

J.T.Baker | avantor

405891
REC.05/01/18 BY AMC
Exp. __/__/__ By __
Open __/__/__ By __

Material No.: 9262-8P
Batch No.: 0000194330
Manufactured Date: 2017/12/21
Expiration Date: 2019/03/22
Revision No: 1

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	100.0
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.3
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

SAMPLE NO.

SW3-170829-01-GOSH-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.7		%	1	04/30/2018 14:42

SAMPLE NO.

SW3-170829-01-GOSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.8		%	1	04/30/2018 14:42

SAMPLE NO.

SW2-170829-01-SPSH-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.6		%	1	05/01/2018 14:22

SAMPLE NO.

SW2-170829-01-SPSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.4		%	1	05/01/2018 14:23

SAMPLE NO.

SW1-170829-01-SPSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	5.0		%	1	05/01/2018 14:23

SAMPLE NO.

SW1-170829-01-FALLF-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.7		%	1	05/01/2018 14:23

SAMPLE NO.

ND5-170829-01-SPSH-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.5		%	1	05/01/2018 14:23

SAMPLE NO.

ND5-170829-01-SPSH-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.6		%	1	05/01/2018 14:24

SAMPLE NO.

ND5-170829-01-SPSH-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	5.0		%	1	05/01/2018 14:24

SAMPLE NO.

ND5-170829-01-SPSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.8		%	1	05/01/2018 14:24

SAMPLE NO.

FD1-170829-01-MMSH-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.7		%	1	05/03/2018 09:45

SAMPLE NO.

FD1-170829-01-MMSH-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.4		%	1	05/03/2018 09:45

SAMPLE NO.

FD1-170829-01-MMSH-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.7		%	1	05/03/2018 09:45

SAMPLE NO.

FD1-170829-01-MMSH-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.3		%	1	05/03/2018 09:45

SAMPLE NO.

FD1-170829-01-MMSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.5		%	1	05/03/2018 09:45

SAMPLE NO.

FD1-170829-01-GOSH-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.9		%	1	04/30/2018 14:42

SAMPLE NO.

FD1-170829-01-GOSH-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017017 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.6		%	1	04/30/2018 14:42

SAMPLE NO.

FD1-170829-01-GOSH-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017018 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.9		%	1	04/30/2018 14:43

SAMPLE NO.

FD1-170829-01-GOSH-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017019 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	3.1		%	1	04/30/2018 14:43

SAMPLE NO.

FD1-170829-01-GOSH-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40158017020 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.9		%	1	04/30/2018 14:43

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 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	1681739	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 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	1682357	C
Lipid									<0.030	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 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	1683598	C
Lipid									<0.030	U

SAMPLE NO.

1681741DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	3.7	3.7	1

SAMPLE NO.

1681743DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	2.7	2.8	6

SAMPLE NO.

1681744DUP

FORM VI INORGANIC-3
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	2.9	2.6	9

SAMPLE NO.

1681745DUP

FORM VI INORGANIC-4
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	3.5	3.7	4

SAMPLE NO.

1682360DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	4.7	4.7	1

SAMPLE NO.

1682361DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	1.7	1.5	11

SAMPLE NO.

1683600DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	5.1	5.2	2

SAMPLE NO.

1683602DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	4.7	4.6	2

SAMPLE NO.

1683603DUP

FORM VI INORGANIC-3
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40158017 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	2.8	2.7	2

Prep Log Report

Batch Information: OEXT 287437 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	ETB	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/10/2018 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	**1681739**	Y	0.01000	04/30/2018 14:40:12		10	5	1	0.9371	0.9373	M	1681428
LIPID	BLANK	**1681740**	Y	0.01000	04/30/2018 14:40:22		10	5	1	0.9345	0.9347	M	1681429
LIPID	RQS	**40157940015**	Y	3.652	04/30/2018 14:40:33		9.9936	5	1	0.9321	1.0051	M	
LIPID	DUP	**1681741**	Y	3.691	04/30/2018 14:40:48		9.9851	5	1	0.9318	1.0055	M	1681911
LIPID	PS	**40157948008**	Y	3.121	04/30/2018 14:41:14		10.0142	5	1	0.9354	0.9979	M	
LIPID	PS	**40157948009**	Y	4.607	04/30/2018 14:41:25		10.0164	5	1	0.9347	1.027	M	
LIPID	RQS	**40157948011**	Y	2.652	04/30/2018 14:41:37		10.0294	5	1	0.9372	0.9904	M	
LIPID	DUP	**1681743**	Y	2.816	04/30/2018 14:41:50		10.0332	5	1	0.9330	0.9895	M	1681432
LIPID	PS	**40157948014**	Y	2.497	04/30/2018 14:42:01		10.0131	5	1	0.9370	0.987	M	
LIPID	PS	**40158017001**	Y	3.726	04/30/2018 14:42:10		9.9702	5	1	0.9370	1.0113	M	
LIPID	PS	**40158017002**	Y	1.841	04/30/2018 14:42:31		9.9957	5	1	0.9381	0.9749	M	
LIPID	PS	**40158017016**	Y	2.903	04/30/2018 14:42:40		9.9898	5	1	0.9378	0.9958	M	
LIPID	PS	**40158017017**	Y	2.646	04/30/2018 14:42:51		10.0147	5	1	0.9332	0.9862	M	
LIPID	PS	**40158017018**	Y	1.935	04/30/2018 14:43:04		10.0284	5	1	0.9355	0.9743	M	
LIPID	PS	**40158017019**	Y	3.140	04/30/2018 14:43:20		10.0003	5	1	0.9400	1.0028	M	
LIPID	RQS	**40158017020**	Y	2.909	04/30/2018 14:43:32		10.002	5	1	0.9396	0.9978	M	
LIPID	DUP	**1681744**	Y	2.648	04/30/2018 14:43:43		10.0261	5	1	0.9384	0.9915	M	1681433
LIPID	PS	**40158029002**	Y	4.392	04/30/2018 14:43:54		9.985	5	1	0.9337	1.0214	M	
LIPID	RQS	**40158029004**	Y	3.531	04/30/2018 14:44:03		10.0264	5	1	0.9369	1.0077	M	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	DUP	**1681745**	Y	3.682	04/30/2018 14:44:11		10.0092	5	1	0.9329	1.0066	M	1681434
LIPID	MS	**1688378**	Y	3.751	04/30/2018 14:44:11		9.9846	5	1	.9373	1.0122	M	1681430

Prep Log Report

Batch Information: OEXT 287559 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	ETB	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/11/2018 07:57				

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	**1682357**	Y	-0.01000	05/01/2018 14:21:10		10	5	1	0.9342	0.934	M	1681906
LIPID	BLANK	**1682358**	Y	0.01500	05/01/2018 14:21:21		10	5	1	0.9319	0.9322	M	1681907
LIPID	PS	**40157948001**	Y	2.102	05/01/2018 14:21:31		9.9685	5	1	0.93	0.9719	M	
LIPID	PS	**40157948002**	Y	1.706	05/01/2018 14:21:41		10.0255	5	1	0.9329	0.9671	M	
LIPID	PS	**40157948007**	Y	4.686	05/01/2018 14:21:50		9.9868	5	1	0.9329	1.0265	M	
LIPID	DUP	**1682360**	Y	4.715	05/01/2018 14:22:14		8.7067	5	1	0.9341	1.0162	M	1681909
LIPID	PS	**40157948012**	Y	4.545	05/01/2018 14:22:25		10.0342	5	1	0.9364	1.0276	M	
LIPID	PS	**40158013011**	Y	4.557	05/01/2018 14:22:34		10.0286	5	1	0.9355	1.0269	M	
LIPID	PS	**40158013012**	Y	4.287	05/01/2018 14:22:44		9.9824	5	1	0.937	1.0226	M	
LIPID	PS	**40158017003**	Y	2.589	05/01/2018 14:22:54		10.0244	5	1	0.9353	0.9872	M	
LIPID	PS	**40158017004**	Y	2.365	05/01/2018 14:23:05		10.0023	5	1	0.9328	0.9801	M	
LIPID	PS	**40158017005**	Y	4.964	05/01/2018 14:23:16		10.0013	5	1	0.9368	1.0361	M	
LIPID	PS	**40158017006**	Y	1.691	05/01/2018 14:23:25		9.9932	5	1	0.9355	0.9693	M	
LIPID	DUP	**1682361**	Y	1.516	05/01/2018 14:23:37		9.996	5	1	0.9357	0.966	M	1681910
LIPID	PS	**40158017007**	Y	4.456	05/01/2018 14:23:48		10.0085	5	1	0.9353	1.0245	M	
LIPID	PS	**40158017008**	Y	4.557	05/01/2018 14:24:00		10.0276	5	1	0.9356	1.027	M	
LIPID	PS	**40158017009**	Y	4.994	05/01/2018 14:24:10		10.0324	5	1	0.9354	1.0356	M	
LIPID	PS	**40158017010**	Y	4.844	05/01/2018 14:24:22		9.9712	5	1	0.9322	1.0288	M	
LIPID	PS	**40158029001**	Y	6.420	05/01/2018 14:24:34		9.9914	5	1	0.9324	1.0607	M	

Prep Log Report

40158017

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	**40158029005**	Y	1.986	05/01/2018 14:24:44		9.9689	5	1	0.9343	0.9739	M	
LIPID	MS	**1683590**	Y	4.574	05/01/2018 14:24:44		5.4335	5	1	.9348	0.9845	M	1681908

Prep Log Report

Batch Information: OEXT 287776 LIPIDS **Template Version: F-GB-O-145-Rev.01 (22Mar2018) LIPID**

Analysis Method	Pace Lipid	Analyzed By	ETB	Instrument	40BALL	Batch Notes	
Reviewed By	CAH	Reviewed By Date	05/18/2018 14:50				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Lipid % Posted	Run Date/Time	ID	Sample Weight (g)	Sample Volume (mL)	Aliquot (mL)	Dish Weight (g)	Dry Weight 1 (g)	Dry Wt Use 1	Sample Notes
LIPID	BLANK	**1683598**	Y	-0.01000	05/03/2018 09:44:26		10	5	1	0.934	0.9338	M	1683452
LIPID	BLANK	**1683599**	Y	-0.02000	05/03/2018 09:44:35		10	5	1	0.9366	0.9362	M	1683453
LIPID	PS	**40157948006**	Y	5.076	05/03/2018 09:44:48		5.6341	5	1	0.9326	0.9898	M	
LIPID	DUP	**1683600**	Y	5.166	05/03/2018 09:44:59		8.1489	5	1	0.9352	1.0194	M	1683454
LIPID	PS	**40158017011**	Y	4.669	05/03/2018 09:45:10		10.0015	5	1	0.9332	1.0266	M	
LIPID	MS	**1683601**	Y	4.571	05/03/2018 09:45:19		3.5445	5	1	0.9324	0.9648	M	1683455
LIPID	DUP	**1683602**	Y	4.599	05/03/2018 09:45:27		4.3374	5	1	0.9323	0.9722	M	1683456
LIPID	PS	**40158017012**	Y	4.399	05/03/2018 09:45:33		10.0365	5	1	0.9383	1.0266	M	
LIPID	PS	**40158017013**	Y	4.698	05/03/2018 09:45:41		9.9933	5	1	0.9362	1.0301	M	
LIPID	PS	**40158017014**	Y	4.300	05/03/2018 09:45:50		10.0237	5	1	0.9331	1.0193	M	
LIPID	PS	**40158017015**	Y	4.495	05/03/2018 09:45:57		10.0001	5	1	0.9364	1.0263	M	
LIPID	PS	**40158029003**	Y	3.138	05/03/2018 09:46:03		9.9914	5	1	0.9351	0.9978	M	
LIPID	PS	**40158029012**	Y	2.760	05/03/2018 09:46:10		9.9826	5	1	0.9325	0.9876	M	
LIPID	DUP	**1683603**	Y	2.706	05/03/2018 09:46:16		7.0222	5	1	0.9305	0.9685	M	1683457
LIPID	PS	**40158029013**	Y	2.074	05/03/2018 09:46:23		10.0044	5	1	0.9284	0.9699	M	
LIPID	PS	**40158029014**	Y	2.545	05/03/2018 09:46:30		10.0008	5	1	0.9296	0.9805	M	

40158017

Client Name: GE
Project #: 40158017
Sample Type: Fish
Date/Time Removed to Thaw: 04-12-18
Date/Time Prepped: 04-12-18
Prepped by: CWN + JL + BM
Location Thawed: 40FRG21 / Room Temperature (circle one)

Pace Analytical

Biota Homogenization Log (NYDOH Method)

Logbook: 4413

Sample ID	A) Scales Removed B) Skin Removed (Note A or B Below)	Whole Body/Fillet (WB/F)	Picture of Fish/Weight Taken? (Y/N)	Total Fish Weight (g)	Internal Organs Intact (Y/N)	Gender (Optional) M/F/U[1]	Fillet Weight (g)	Left/Both Fillet[2]?	Picture of Fillet/Weight Taken? (Y/N)	Container Code[3]	Number of Containers Used	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Processing Type (C/G/R/RM)[4]	Sample Comments
1	N/A	WB	Y	225.8	Y	N/A	N/A	Left / Both	N/A	4AG	3	Y	216.6	C	
2			Y	74.0				Left / Both			1	Y	69.0		
3			Y	24.1				Left / Both			1	Y	22.0		
4			Y	22.5				Left / Both			1	Y	20.7		
5			Y	35.1				Left / Both			1	Y	32.7		
6			Y	30.0				Left / Both			1	Y	28.1		
7			Y	35.9				Left / Both			1	Y	33.6		
8			Y	30.4				Left / Both			1	Y	27.8		
9			Y	30.1				Left / Both			1	Y	27.8		
10			Y	33.2				Left / Both			1	Y	31.2		
11			Y	20.7				Left / Both			1	Y	18.8		
12			Y	21.4				Left / Both			1	Y	19.4		
13			Y	20.7				Left / Both			1	Y	18.9		
14			Y	21.3				Left / Both			1	Y	19.6		
15			Y	21.8				Left / Both			1	Y	20.4		
16			Y	26.7				Left / Both			1	Y	25.3		
17			Y	22.8				Left / Both			1	Y	21.4		
18			Y	39.3				Left / Both			1	Y	37.4		
19			Y	19.9				Left / Both			1	Y	18.8		
20			Y	80.8				Left / Both			1	Y	76.9		

(1) M = Male, F = Female, U = Undetermined

(2) If left fillet weight is under 40g, the right fillet in included in the sample weight.

CWN 04-12-18

(3) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	G-7-243-01DB
9AG	9 oz Amber Glass	
32AG	32 oz Amber Glass	

(4) Processing Type Code Descriptions:

Code	Description of Code
C	Chopped
G	Grind
R	Robot coupe
RM	Robot coupe multiple batches

Reviewed By

4/27/18
Date

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