Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 40148598

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

May 31, 2018

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

RE: Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

Dear Jim Ryan:
Enclosed are the analytical results for sample(s) received by the laboratory on April 19, 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.

Report revised to update COC and include duplicate information in data package.

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.: 40148598

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.: 40148598

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40148598001	**TZ1-170418-01-STB-05**	Tissue	04/18/17 17:48	04/19/17 09:30
40148598002	**TZ1-170418-01-STB-04**	Tissue	04/18/17 17:44	04/19/17 09:30
40148598003	**TZ1-170418-01-STB-03**	Tissue	04/18/17 17:42	04/19/17 09:30
40148598004	**TZ1-170418-01-STB-02**	Tissue	04/18/17 17:40	04/19/17 09:30
40148598005	**TZ1-170418-01-STB-01**	Tissue	04/18/17 17:35	04/19/17 09:30

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SAMPLE ANALYTE COUNT

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40148598001	**TZ1-170418-01-STB-05**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40148598002	**TZ1-170418-01-STB-04**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40148598003	**TZ1-170418-01-STB-03**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40148598004	**TZ1-170418-01-STB-02**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1
40148598005	**TZ1-170418-01-STB-01**	EPA 8082A Mod	BLM	10
		Pace Gender Typing	CWN	1
		Pace Lipid	AMC	1

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

Method: **EPA 8082A Mod**
Description: 8082A Modified GCT PCB
Client: General Electric
Date: May 31, 2018

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

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

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

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

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

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

Method: **Pace Gender Typing**
Description: Fish Gender Typing
Client: General Electric
Date: May 31, 2018

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

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

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

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

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

Method: **Pace Lipid**
Description: Lipid
Client: General Electric
Date: May 31, 2018

General Information:
5 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.: 40148598

Sample: TZ1-170418-01-STB-05 **Lab ID: 40148598001** Collected: 04/18/17 17:48 Received: 04/19/17 09:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**70.1**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**75.1**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**75.4**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:18	11096-82-5	
PCB, Total	**221**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:18	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	60-140		1	03/02/18 06:50	03/07/18 15:18	877-09-8	
Decachlorobiphenyl (S)	86	%	60-140		1	03/02/18 06:50	03/07/18 15:18	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/21/18 14:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.9**	%	0.030	0.030	1		03/07/18 06:41		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

Sample: TZ1-170418-01-STB-04 **Lab ID: 40148598002** Collected: 04/18/17 17:44 Received: 04/19/17 09:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	50.0	11.4	1	03/02/18 06:50	03/07/18 15:35	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	50.0	11.4	1	03/02/18 06:50	03/07/18 15:35	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	50.0	11.4	1	03/02/18 06:50	03/07/18 15:35	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	50.0	11.4	1	03/02/18 06:50	03/07/18 15:35	53469-21-9	
PCB-1248 (Aroclor 1248)	**19.0J**	ug/kg	50.0	11.4	1	03/02/18 06:50	03/07/18 15:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**28.9J**	ug/kg	50.0	11.4	1	03/02/18 06:50	03/07/18 15:35	11097-69-1	
PCB-1260 (Aroclor 1260)	**28.8J**	ug/kg	50.0	11.4	1	03/02/18 06:50	03/07/18 15:35	11096-82-5	
PCB, Total	**76.7**	ug/kg	50.0	11.4	1	03/02/18 06:50	03/07/18 15:35	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	60-140		1	03/02/18 06:50	03/07/18 15:35	877-09-8	
Decachlorobiphenyl (S)	82	%	60-140		1	03/02/18 06:50	03/07/18 15:35	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Female**				1		02/21/18 14:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**0.34**	%	0.030	0.030	1		03/07/18 06:41		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

Sample: TZ1-170418-01-STB-03 **Lab ID: 40148598003** Collected: 04/18/17 17:42 Received: 04/19/17 09:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**67.9**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**86.0**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**104**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:51	11096-82-5	
PCB, Total	**258**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 15:51	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	60-140		1	03/02/18 06:50	03/07/18 15:51	877-09-8	
Decachlorobiphenyl (S)	91	%	60-140		1	03/02/18 06:50	03/07/18 15:51	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/21/18 14:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**1.6**	%	0.030	0.030	1		03/07/18 06:41		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

Sample: TZ1-170418-01-STB-02 **Lab ID: 40148598004** Collected: 04/18/17 17:40 Received: 04/19/17 09:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<11.4**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 16:07	12674-11-2	
PCB-1221 (Aroclor 1221)	**<11.4**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 16:07	11104-28-2	
PCB-1232 (Aroclor 1232)	**<11.4**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 16:07	11141-16-5	
PCB-1242 (Aroclor 1242)	**<11.4**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 16:07	53469-21-9	
PCB-1248 (Aroclor 1248)	**73.0**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 16:07	12672-29-6	
PCB-1254 (Aroclor 1254)	**94.6**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 16:07	11097-69-1	
PCB-1260 (Aroclor 1260)	**96.2**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 16:07	11096-82-5	
PCB, Total	**264**	ug/kg	49.8	11.4	1	03/02/18 06:50	03/07/18 16:07	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	102	%	60-140		1	03/02/18 06:50	03/07/18 16:07	877-09-8	
Decachlorobiphenyl (S)	95	%	60-140		1	03/02/18 06:50	03/07/18 16:07	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/21/18 14:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**4.8**	%	0.030	0.030	1		03/07/18 06:41		

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ANALYTICAL RESULTS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

Sample: TZ1-170418-01-STB-01 **Lab ID: 40148598005** Collected: 04/18/17 17:35 Received: 04/19/17 09:30 Matrix: Tissue

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A Modified GCT PCB	Analytical Method: EPA 8082A Mod Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<22.8**	ug/kg	99.8	22.8	2	03/02/18 06:50	03/07/18 16:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.8**	ug/kg	99.8	22.8	2	03/02/18 06:50	03/07/18 16:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<22.8**	ug/kg	99.8	22.8	2	03/02/18 06:50	03/07/18 16:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.8**	ug/kg	99.8	22.8	2	03/02/18 06:50	03/07/18 16:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**229**	ug/kg	99.8	22.8	2	03/02/18 06:50	03/07/18 16:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**253**	ug/kg	99.8	22.8	2	03/02/18 06:50	03/07/18 16:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**274**	ug/kg	99.8	22.8	2	03/02/18 06:50	03/07/18 16:23	11096-82-5	
PCB, Total	**756**	ug/kg	99.8	22.8	2	03/02/18 06:50	03/07/18 16:23	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	60-140		2	03/02/18 06:50	03/07/18 16:23	877-09-8	
Decachlorobiphenyl (S)	99	%	60-140		2	03/02/18 06:50	03/07/18 16:23	2051-24-3	
Fish Gender Typing	Analytical Method: Pace Gender Typing								
Gender	**Male**				1		02/21/18 14:53		
Lipid	Analytical Method: Pace Lipid								
Lipid	**2.7**	%	0.030	0.030	1		03/07/18 06:41		

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QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

QC Batch: 282250 | Analysis Method: EPA 8082A Mod
QC Batch Method: EPA 3541 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40148598001, 40148598002, 40148598003, 40148598004, 40148598005

METHOD BLANK: 1653810 | Matrix: Tissue
Associated Lab Samples: 40148598001, 40148598002, 40148598003, 40148598004, 40148598005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
PCB-1221 (Aroclor 1221)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
PCB-1232 (Aroclor 1232)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
PCB-1242 (Aroclor 1242)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
PCB-1248 (Aroclor 1248)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
PCB-1254 (Aroclor 1254)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
PCB-1260 (Aroclor 1260)	ug/kg	<11.4	50.0	11.4	03/07/18 14:30	
Decachlorobiphenyl (S)	%	87	60-140		03/07/18 14:30	
Tetrachloro-m-xylene (S)	%	76	60-140		03/07/18 14:30	

LABORATORY CONTROL SAMPLE: 1653811

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	228	91	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)	%			87	60-140	
Tetrachloro-m-xylene (S)	%			80	60-140	

MATRIX SPIKE SAMPLE: 1653812

Parameter	Units	40148598005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.8		<22.8			
PCB-1221 (Aroclor 1221)	ug/kg	<22.8		<22.8			
PCB-1232 (Aroclor 1232)	ug/kg	<22.8		<22.8			
PCB-1242 (Aroclor 1242)	ug/kg	<22.8	250	313	125	70-130	
PCB-1248 (Aroclor 1248)	ug/kg	229		382			
PCB-1254 (Aroclor 1254)	ug/kg	253		267			
PCB-1260 (Aroclor 1260)	ug/kg	274		262			
Decachlorobiphenyl (S)	%				96	60-140	
Tetrachloro-m-xylene (S)	%				92	60-140	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

SAMPLE DUPLICATE: 1653813

Parameter	Units	40148598005 Result	Dup Result	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<22.8	<22.8		40	
PCB-1221 (Aroclor 1221)	ug/kg	<22.8	<22.8		40	
PCB-1232 (Aroclor 1232)	ug/kg	<22.8	<22.8		40	
PCB-1242 (Aroclor 1242)	ug/kg	<22.8	<22.8		40	
PCB-1248 (Aroclor 1248)	ug/kg	229	176	26	40	
PCB-1254 (Aroclor 1254)	ug/kg	253	195	26	40	
PCB-1260 (Aroclor 1260)	ug/kg	274	211	26	40	
Decachlorobiphenyl (S)	%	99	88	11		
Tetrachloro-m-xylene (S)	%	89	82	9		

SAMPLE DUPLICATE: 1653814

Parameter	Units	40148671004 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	21.8J	26.7J		40	
PCB-1254 (Aroclor 1254)	ug/kg	31.3J	39.2J		40	
PCB-1260 (Aroclor 1260)	ug/kg	65.8	84.4	25	40	
Decachlorobiphenyl (S)	%	71	89	22		
Tetrachloro-m-xylene (S)	%	67	80	17		

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

QC Batch: 282285 Analysis Method: Pace Lipid
QC Batch Method: Pace Lipid Analysis Description: LIPID
Associated Lab Samples: 40148598001, 40148598002, 40148598003, 40148598004, 40148598005

METHOD BLANK: 1653924 Matrix: Tissue
Associated Lab Samples: 40148598001, 40148598002, 40148598003, 40148598004, 40148598005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lipid	%	<0.030	0.030	0.030	03/07/18 06:41	

MATRIX SPIKE SAMPLE: 1682000

Parameter	Units	40148598005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lipid	%	2.7		2.5			

SAMPLE DUPLICATE: 1653927

Parameter	Units	40148598005 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	2.7	2.1	25	40	

SAMPLE DUPLICATE: 1653928

Parameter	Units	40148671004 Result	Dup Result	RPD	Max RPD	Qualifiers
Lipid	%	1.6	2.2	27	40	

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(920)469-2436

QUALIFIERS

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUDSON RIVER REMEDIAL ACTION M
Pace Project No.: 40148598

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40148598001	**TZ1-170418-01-STB-05**	EPA 3541	282250	EPA 8082A Mod	282391
40148598002	**TZ1-170418-01-STB-04**	EPA 3541	282250	EPA 8082A Mod	282391
40148598003	**TZ1-170418-01-STB-03**	EPA 3541	282250	EPA 8082A Mod	282391
40148598004	**TZ1-170418-01-STB-02**	EPA 3541	282250	EPA 8082A Mod	282391
40148598005	**TZ1-170418-01-STB-01**	EPA 3541	282250	EPA 8082A Mod	282391
40148598001	**TZ1-170418-01-STB-05**	Pace Gender Typing	281642		
40148598002	**TZ1-170418-01-STB-04**	Pace Gender Typing	281642		
40148598003	**TZ1-170418-01-STB-03**	Pace Gender Typing	281642		
40148598004	**TZ1-170418-01-STB-02**	Pace Gender Typing	281642		
40148598005	**TZ1-170418-01-STB-01**	Pace Gender Typing	281642		
40148598001	**TZ1-170418-01-STB-05**	Pace Lipid	282285		
40148598002	**TZ1-170418-01-STB-04**	Pace Lipid	282285		
40148598003	**TZ1-170418-01-STB-03**	Pace Lipid	282285		
40148598004	**TZ1-170418-01-STB-02**	Pace Lipid	282285		
40148598005	**TZ1-170418-01-STB-01**	Pace Lipid	282285		

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40148598

ANCHOR QEA

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170418-T11-01
Sample Custodian: MCS
Lab: Pace - Green Bay

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

	COC Sample Number	Sampling Event ID	Field Sample ID	Sample Date	Sample Time	MS/LD	# CONTAINERS	Media*	Prep**	Composite	EPA Split	Total PCBs NE013_09	Total PCBs SW846 8082A	Percent Lipid (S-GB-O-068)	Fillet Weight (S-GB-L-009)	
001	001	TZ1-170418-01	TZ1-170418-01-STB-05	4/18/2017	17:48	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
002	002	TZ1-170418-01	TZ1-170418-01-STB-04	4/18/2017	17:44	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
003	003	TZ1-170418-01	TZ1-170418-01-STB-03	4/18/2017	17:42	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
004	004	TZ1-170418-01	TZ1-170418-01-STB-02	4/18/2017	17:40	☐	1	F	FLRC	☐	☐	☐	☑	☑	☑	
005	005	TZ1-170418-01	TZ1-170418-01-STB-01	4/18/2017	17:35	☑	1	F	FLRC	☐	☐	☐	☑	☑	☑	

1-ziploc A

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [signature]	Signature	Signature	Signature [signature] Pace	Signature	Signature
Print Name Jim Ryan	Print Name Fed Ex	Print Name Fed Ex	Print Name Sam Malesa	Print Name	Print Name
Company Anchor QEA	Company	Company	Company Pace	Company	Company
Date/Time 4/18/17 19:00	Date/Time	Date/Time 4/19/17 0930	Date/Time 4/19/17 0930	Date/Time	Date/Time

SSM 5/31/18

Date Printed: 4/18/2017 * F= FISH **F=Fillet, WH=Whole Body, O=Offal **COC TYPE:** TPCB-LIPD-PEST-MERCURY **Page 1 of 1**

Sample Condition Upon Receipt

Pace Analytical

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

Project #: **WO#: 40148598**

40148598

Client Name: Anchor QEA

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

Tracking #: 7862 ~~8380~~ SSM 4/19/17 → 8380 (0671), (0682)

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 Foil + Plastic bags SSM 4/19/17

Thermometer Used SR-73 **Type of Ice:** Wet Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2 /Corr: 2 **Biological Tissue is Frozen:** ☒ yes ☐ no

Temp Blank Present: ☒ yes ☐ no

Person examining contents:
Date: 4/19/17
Initials: SSM

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

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☐Yes	☒No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☒N/A	9. SSM 4/19/17
-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: -Includes date/time/ID/Analysis Matrix: B	☒Yes	☐No	☐N/A	12.
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: AMH for TW **Date:** 4/19/17

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

CASE NARRATIVE - PCB ANALYSIS

Lab Report Number (SDG): 40148598
Client: GENERAL ELECTRIC COMPANY
Project Name: HUDSON RIVER REMEDIAL ACTION MONITORING PROGRAM
Project Number: N/A

1. RECEIPT

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

2. HOLDING TIMES

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

3. METHOD

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

4. PREPARATION

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

5. ANALYSIS

A. **Calibration:**
  1. **Initial verification:** All method acceptance criteria were met.
  2. **Continuing verification:** All method acceptance criteria were met.
B. **Blanks:**
  1. **Method:** All acceptance criteria were met for the associated method blank.
C. **Surrogates:** All QAPP specified acceptance criteria were met.
D. **Spikes:**
  1. **Lab Control Spike (LCS):** The control spike was fortified with Aroclor 1242 and met the QAPP specified accuracy criteria.
  2. **Matrix Spike (MS):** Sample TZ1-170418-01-STB-01 was designated as the parent sample for the MS for this SDG and one portion of the sample was fortified with Aroclor 1242. The MS required a 1:2 dilution to bring a non-fortified Aroclor within instrument calibration range. The QAPP specified accuracy criteria were met.
E. **Samples:** Sample analyses proceeded normally. ZB-1ms is the quantitation column.
F. **Sample Duplicate:** Sample TZ1-170418-01-STB-01 was designated as the duplicate for this SDG. The QAPP specified precision criteria were met. A batch duplicate was also analyzed with this SDG. Duplicate results are not evaluated below the reporting limit.
G. **Dilutions:** Sample TZ1-170418-01-STB-01 was analyzed at a dilution to bring the level of Aroclors within the calibration range of the instrument.
H. **Reanalysis:** None required for this SDG.
I. **Comments:** Due to rounding differences in the software programs used, the values found on the quantitation reports may not match the values found on the sample Form 1s.

This data package was revised to address various client requests and to update Lipids reporting (5/2/18).
This data package was revised to include an updated COC and updated raw data for DUP1653813.

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: Jill A. Duranceau Date: 05/31/18

Name: Jill A Duranceau Position: Quality Assurance Auditor

PCB - FORM II SVOA-1
TISSUE SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Green Bay SDG No.: 40148598 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK

LAB SAMPLE ID	SAMPLE NAME	DCBP	TCMX
1653810	1653810BLANK	87	76
1653811	1653811LCS	87	80
1653812	1653812MS	96	92
1653813	1653813DUP	88	82
40148598001	TZ1-170418-01-STB-05	86	86
40148598002	TZ1-170418-01-STB-04	82	73
40148598003	TZ1-170418-01-STB-03	91	88
40148598004	TZ1-170418-01-STB-02	95	102
40148598005	TZ1-170418-01-STB-01	99	89

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

* Values outside of QC Limits

PCB - FORM III SVOA-1

TISSUE LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/02/2018

Instrument: 40GCSK

Lab File ID: 030718.B\030718013.D

Lab Sample ID: 1653811LCS

Date Analyzed (1): 03/07/2018

LCS Lot No: 182336

SDG No.: 40148598

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	228	91	70-130

Spike Recovery: 0 out of 1 outside limits.

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/02/2018

Instrument: 40GCSK

Parent Sample ID: TZ1-170418-01-STB-01

Matrix Spike - Sample No: 1653812MS

Date Analyzed (1): 03/07/2018

Lab File ID: 030718.B\030718015.D

SDG No.: 40148598

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
PCB-1242 (Aroclor 1242)	250	<22.8	313	125	70-130

Spike Recovery: 0 out of 1 outside limits.

04/27/2018 9:33

PCB - FORM III SVOA-1

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/02/2018

Instrument 40GCSK

Lab Sample ID: 40148671004

Duplicate Sample No: 40148671004DUP

Date Analyzed: 03/07/2018

Lab File ID: 030718.B\030718041.D

SDG No.: 40148598

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)	21.8J	26.7J		0-40
PCB-1254 (Aroclor 1254)	31.3J	39.2J		0-40
PCB-1260 (Aroclor 1260)	65.8	84.4	25	0-40

RPD: 0 out of 1 outside limits.

04/27/2018 9:33

PCB - FORM III SVOA-2

TISSUE SEMI-VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - Green Bay

Date Extracted: 03/02/2018

Instrument 40GCSK

Lab Sample ID: TZ1-170418-01-STB-01

Duplicate Sample No: 40148598005DUP

Date Analyzed: 03/07/2018

Lab File ID: 030718.B\030718027.D

SDG No.: 40148598

COMPOUND	SAMPLE CONCENTRATION (ug/kg)	DUPLICATE CONCENTRATION (ug/kg)	RPD	RPD LIMITS
PCB-1016 (Aroclor 1016)	<22.8	<22.8		0-40
PCB-1221 (Aroclor 1221)	<22.8	<22.8		0-40
PCB-1232 (Aroclor 1232)	<22.8	<22.8		0-40
PCB-1242 (Aroclor 1242)	<22.8	<22.8		0-40
PCB-1248 (Aroclor 1248)	229	176	26	0-40
PCB-1254 (Aroclor 1254)	253	195	26	0-40
PCB-1260 (Aroclor 1260)	274	211	26	0-40

RPD: 0 out of 3 outside limits.

SAMPLE NO.

1653810BLANK

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

Lab Name: Pace Analytical - Green Bay SDG No.: 40148598 Contract: HUDSON RIVER REMEDIAL

Instrument ID: 40GCSK Matrix: Tissue Lab Sample ID: 1653810

Lab File ID: 030718.B\030718011.D Date Analyzed: 03/07/2018 Time:14:30

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1653811LCS	1653811	030718.B\030718013.D	03/07/2018 14:46
1653812MS	1653812	030718.B\030718015.D	03/07/2018 15:02
TZ1-170418-01-STB-05	40148598001	030718.B\030718017.D	03/07/2018 15:18
TZ1-170418-01-STB-04	40148598002	030718.B\030718019.D	03/07/2018 15:35
TZ1-170418-01-STB-03	40148598003	030718.B\030718021.D	03/07/2018 15:51
TZ1-170418-01-STB-02	40148598004	030718.B\030718023.D	03/07/2018 16:07
TZ1-170418-01-STB-01	40148598005	030718.B\030718025.D	03/07/2018 16:23
1653813DUP	1653813	030718.B\030718027.D	03/07/2018 16:39
1653814DUP	1653814	030718.B\030718041.D	03/07/2018 18:32

SAMPLE NO.

TZ1-170418-01-STB-05

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 04/19/2017 09:30
Matrix: Tissue SDG No.: 40148598
Date Extracted: 03/02/2018 06:50
Lab Sample ID: 40148598001
Date Analyzed: 03/07/2018 15:18
Lab File ID: 030718.B\030718017.D
Initial wt/vol: 10.0375 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)	70.1	
11097-69-1	PCB-1254 (Aroclor 1254)	75.1	
11096-82-5	PCB-1260 (Aroclor 1260)	75.4	
1336-36-3	PCB, Total	221	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718017.D
Lab Smp Id: 40148598001 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 15:18
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40148598001,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 17
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	10.038	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.016	18759	19576	1.044	0.03		
1.038	38331	20808	0.543	0.06		
1.081	17563	16299	0.928	0.02		
1.119	17119	13291	0.776	0.02		
1.182	19521	21292	1.091	0.03		
1.206	37237	22392	0.601	0.05		
1.415	11334	11491	1.014	0.01		
1.462	16560	16468	0.994	0.02		
1.730	14336	12683	0.885	0.02		
1.823	79428	62007	0.781	0.12		
1.880	12944	13362	1.032	0.02		
2.004	13980	17045	1.219	0.02		
2.119	19555	14393	0.736	0.03		
2.190	51482	34292	0.666	0.08		
2.232	49963	56843	1.138	0.08		
2.271	21361	19889	0.931	0.03		
2.318	13654	15534	1.138	0.02		
2.355	55859	60362	1.081	0.08		
2.379	80077	86433	1.079	0.12		
2.424	18218	18948	1.040	0.02		
2.476	95261	81590	0.856	0.15		
2.551	10240983	10647399	1.040	16.42	$ 2 Tetrachloro-m-xylene	
2.862	28687	24034	0.838	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.926	42569	31291	0.735	0.06	
2.966	11054	9853	0.891	0.01	
3.050	151665	111712	0.737	0.24	
3.095	74603	76565	1.026	0.11	
3.132	50290	36960	0.735	0.08	
3.397	106501	105083	0.987	0.17	
3.424	102132	95688	0.937	0.16	
3.515	53430	46757	0.875	0.08	
3.602	125017	101110	0.809	0.20	
3.814	79120	73254	0.926	0.12	
3.839	59289	44471	0.750	0.09	
3.910	462500	262481	0.568	0.74	
4.023	113623	77435	0.682	0.18	
4.079	91115	75889	0.833	0.14	
4.143	81081	46776	0.577	0.13	
4.224	32718	23550	0.720	0.05	
4.300	517470	482510	0.932	0.83	
4.346	507317	489943	0.966	0.81	6 Aroclor 1248
4.378	456274	341786	0.749	0.73	
4.434	58368	43090	0.738	0.09	
4.504	337717	293836	0.870	0.54	
4.539	213385	188362	0.883	0.34	
4.602	145978	135410	0.928	0.23	
4.632	451587	405626	0.898	0.72	6 Aroclor 1248
4.675	38821	34344	0.885	0.06	
4.705	94810	81199	0.856	0.15	
4.744	30332	27813	0.917	0.04	
4.765	57632	41118	0.713	0.09	
4.825	99776	76844	0.770	0.16	
4.853	63771	53879	0.845	0.10	
4.900	270123	242877	0.899	0.43	6 Aroclor 1248
4.935	392329	365718	0.932	0.62	
4.981	1111025	599711	0.540	1.78	6 Aroclor 1248
5.044	304754	224493	0.737	0.48	
5.092	56656	48946	0.864	0.09	
5.127	298787	272785	0.913	0.47	6 Aroclor 1248
5.145	96653	100494	1.040	0.15	
5.187	657003	553629	0.843	1.05	
5.249	1181790	1013704	0.858	1.89	7 Aroclor 1254
5.301	1373474	1112742	0.810	2.20	
5.344	87031	77364	0.889	0.13	
5.371	152778	136577	0.894	0.24	
5.402	558328	523046	0.937	0.89	
5.451	378584	325993	0.861	0.60	
5.495	460860	415255	0.901	0.73	7 Aroclor 1254
5.539	2721887	2595268	0.953	4.36	
5.566	98045	143312	1.462	0.15	
5.597	1341844	1094581	0.816	2.15	7 Aroclor 1254
5.664	173833	125207	0.720	0.27	
5.693	201177	133760	0.665	0.32	
5.762	435638	396861	0.911	0.69	
5.797	306279	223067	0.728	0.49	
5.830	391744	285213	0.728	0.62	
5.877	2269708	1818114	0.801	3.64	
5.912	565313	484193	0.857	0.90	
5.974	105725	125132	1.184	0.16	
5.991	288063	238252	0.827	0.46	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.019	125356	107541	0.858	0.20	
6.056	46994	50065	1.065	0.07	
6.080	707131	641090	0.907	1.13	
6.116	758226	679902	0.897	1.21	7 Aroclor 1254
6.143	2886630	2467788	0.855	4.63	
6.256	330689	242485	0.733	0.53	
6.274	201935	190644	0.944	0.32	
6.333	455352	254179	0.558	0.73	
6.388	2760203	2268859	0.822	4.42	8 Aroclor 1260
6.421	273246	234588	0.859	0.43	
6.462	93603	71888	0.768	0.15	
6.520	336927	222720	0.661	0.54	
6.575	64007	54938	0.858	0.10	
6.598	1160834	1096460	0.945	1.86	
6.626	528252	515832	0.976	0.84	
6.650	454472	404300	0.890	0.72	
6.692	160731	109211	0.679	0.25	
6.750	66429	55695	0.838	0.10	
6.808	310235	270370	0.872	0.49	
6.847	443481	385653	0.870	0.71	
6.892	375458	331713	0.883	0.60	
6.928	261991	220508	0.842	0.42	
7.001	81224	76849	0.946	0.13	
7.033	537051	519574	0.967	0.86	
7.093	1276320	1179172	0.924	2.04	8 Aroclor 1260
7.123	143669	92779	0.646	0.23	
7.210	39206	31053	0.792	0.06	
7.253	31001	10037	0.324	0.04	
7.340	535792	466483	0.871	0.85	8 Aroclor 1260
7.369	177567	139016	0.783	0.28	
7.425	43041	30719	0.714	0.06	
7.478	492004	432251	0.879	0.78	
7.511	80491	93935	1.167	0.12	
7.531	521155	434163	0.833	0.83	8 Aroclor 1260
7.582	81376	49500	0.608	0.13	
7.618	25368	24087	0.950	0.04	
7.648	91544	57266	0.626	0.14	
7.726	21602	14559	0.674	0.03	
7.779	130330	117129	0.899	0.20	
7.816	244455	205082	0.839	0.39	
7.852	49973	38934	0.779	0.08	
7.901	170967	99608	0.583	0.27	
7.950	23543	18177	0.772	0.03	
7.988	350684	317937	0.907	0.56	8 Aroclor 1260
8.046	81036	43020	0.531	0.12	
8.141	23396	17360	0.742	0.03	
8.273	11954	8590	0.719	0.01	
8.363	470234	428449	0.911	0.75	
8.404	12203	12269	1.005	0.01	
8.444	10645	12472	1.172	0.01	
8.465	62134	48609	0.782	0.09	
8.534	46005	26396	0.574	0.07	
8.568	13713	12900	0.941	0.02	
8.659	11057172	9691790	0.877	18.48	$ 12 Decachlorobiphenyl
8.815	39007	31054	0.796	0.06	
8.908	22944	15783	0.688	0.03	
9.077	24450	22313	0.913	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.115	19607	17475	0.891	0.03	
9.163	14309	14524	1.015	0.02	
9.181	11651	15575	1.337	0.01	
9.258	69505	60886	0.876	0.11	
9.370	12239	10976	0.897	0.01	
9.417	42234	33575	0.795	0.06	
9.488	9722	8359	0.860	0.01	
9.526	33611	17501	0.521	0.05	
9.569	24748	19217	0.777	0.03	
9.627	27916	24241	0.868	0.04	
9.654	20326	16154	0.795	0.03	
9.687	24672	18682	0.757	0.03	
9.734	9722	10428	1.073	0.01	
9.763	32112	27024	0.842	0.05	
9.789	82498	67987	0.824	0.13	
9.812	39633	32871	0.829	0.06	
9.866	33740	29444	0.873	0.05	
9.946	41407	25346	0.612	0.06	
	62336672	55043369		100.000	

Total unknown % area = 46

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718017.D
Lab Smp Id: 40148598001 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 15:18
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40148598001,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 17
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	10.038	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

$	2 Tetrachloro-m-xylene					CAS #: 877-09-8		
2.551	2.550	0.001	10240983	0.08648	43			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

Operator disabled compound identification.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.346	4.347	-0.001	507316	0.20431	100	0.00- 20.00	100.00(M)	CO
4.631	4.632	-0.001	451587	0.10135	50	0.00- 20.00	89.01	CO
4.900	4.900	0.000	270122	0.12554	62	0.00- 20.00	53.25	CO
4.981	4.967	0.014	1111024	0.19699	98	0.00- 20.00	219.00	CO
5.126	5.127	-0.001	298786	0.07580	38	0.00- 20.00	58.90	CO
		Average of Peak Concentrations =			70			
7 Aroclor 1254					CAS #: 11097-69-1			
5.249	5.249	0.000	1181790	0.20786	100	0.00- 20.00	100.00(M)	BA
5.494	5.496	-0.002	460859	0.09799	49	0.00- 20.00	39.00	BA
5.597	5.598	-0.001	1341844	0.15569	78	0.00- 20.00	113.54	BA
6.116	6.117	-0.001	758226	0.14118	70	0.00- 20.00	64.16	BA
6.388	6.388	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			75			
8 Aroclor 1260					CAS #: 11096-82-5			
6.388	6.388	0.000	2760203	0.28175	140	0.00- 20.00	100.00(M)	BA
7.092	7.092	0.000	1276320	0.11109	55	0.00- 20.00	46.24	BA
7.340	7.340	0.000	535791	0.09670	48	0.00- 20.00	19.41	BA
7.530	7.531	-0.001	521155	0.15456	77	0.00- 20.00	18.88	BA
7.987	7.988	-0.001	350684	0.11313	56	0.00- 20.00	12.71	BA
		Average of Peak Concentrations =			75			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.659	8.660	-0.001	11057172	0.08578	43			

QC Flag Legend

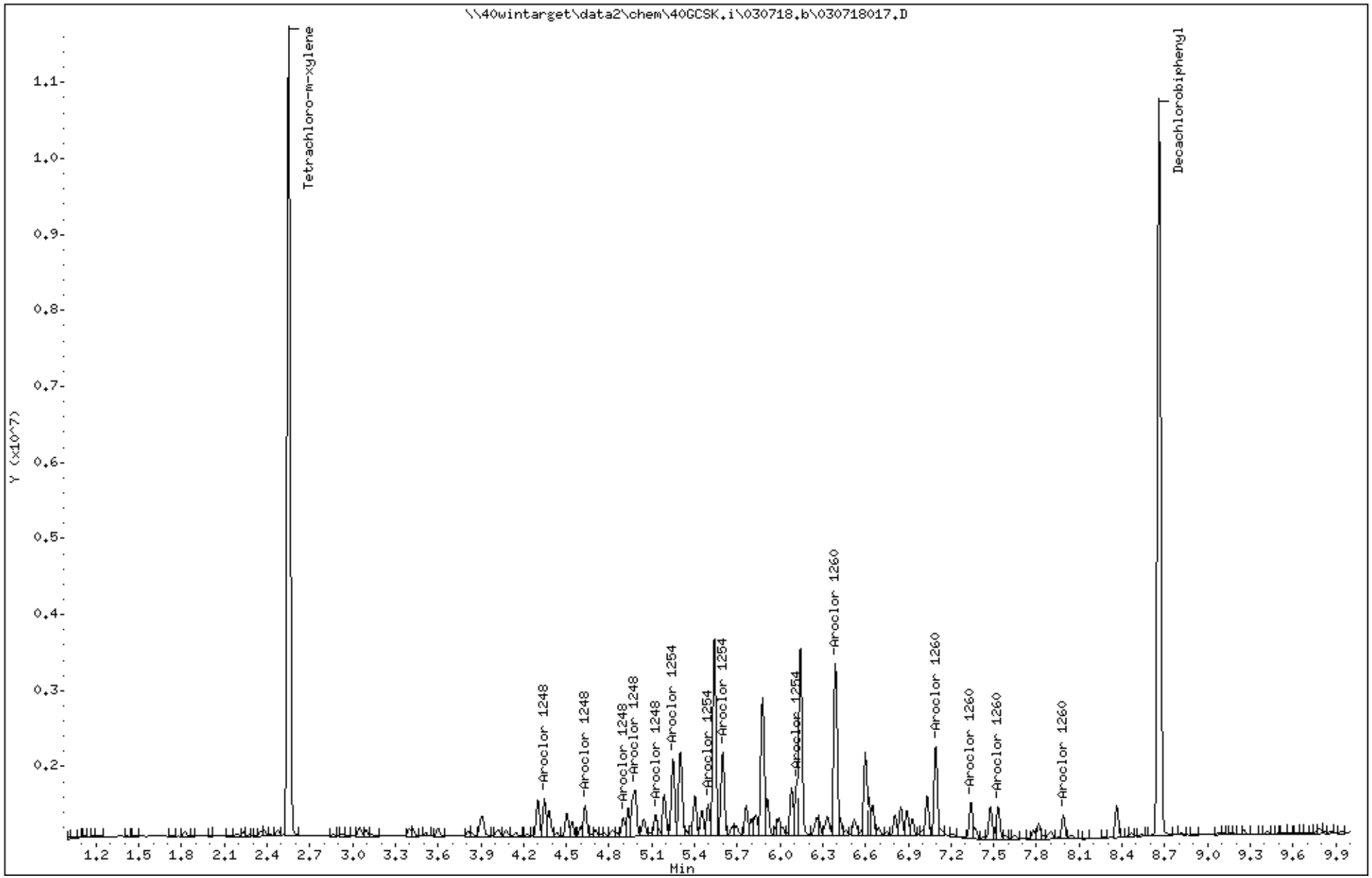
M - Compound response manually integrated.

Review Codes Legend

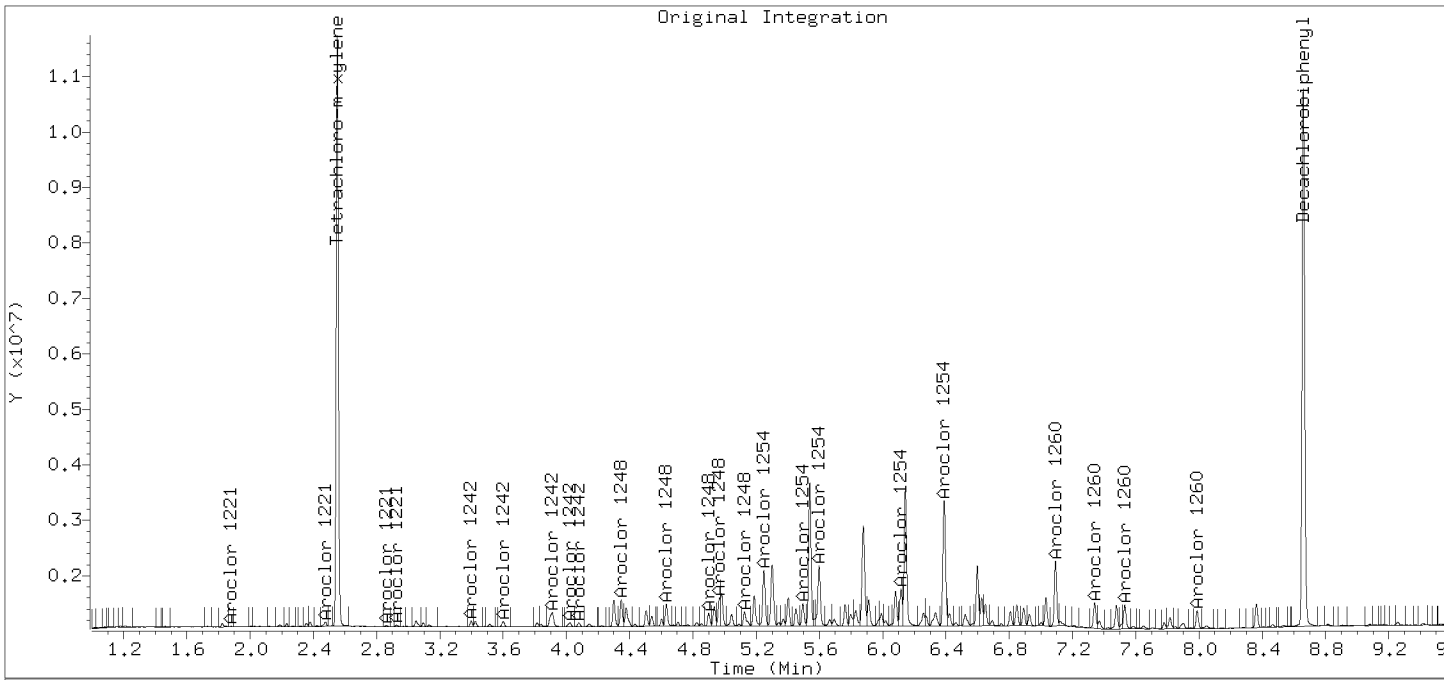
:
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

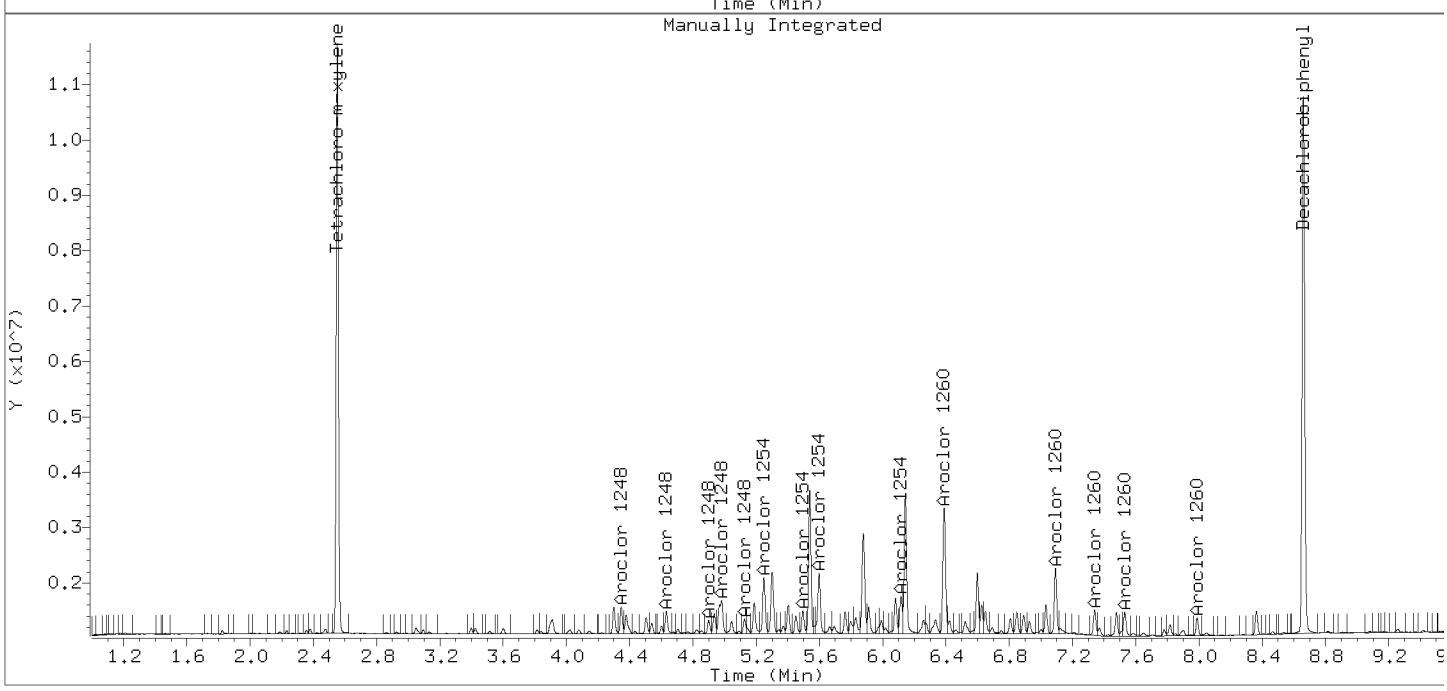
Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b\030718017.D
Date : 07-MAR-2018 15:18
Client ID: TZ1-170418-01-STB-0
Sample Info: 40148598001,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b/030718017.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 15:18 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40148598001





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	106501	0	
Aroclor 1016	106501	0	
Aroclor 1016	106501	0	
Aroclor 1016	106501	0	
Aroclor 1016	106501	0	
Aroclor 1221	12944	0	
Aroclor 1221	12944	0	
Aroclor 1221	12944	0	
Aroclor 1221	12944	0	
Aroclor 1221	12944	0	
Aroclor 1232	42568	0	
Aroclor 1232	42568	0	
Aroclor 1232	42568	0	
Aroclor 1232	42568	0	

Aroclor 1232	42568	0	
Aroclor 1242	106501	0	
Aroclor 1242	106501	0	
Aroclor 1242	106501	0	
Aroclor 1242	106501	0	
Aroclor 1242	106501	0	
Aroclor 1248	493744	507316	CO
Aroclor 1248	493744	507316	CO
Aroclor 1248	493744	507316	CO
Aroclor 1248	493744	507316	CO
Aroclor 1248	493744	507316	CO
Aroclor 1254	1137603	1181790	BA
Aroclor 1254	1137603	1181790	BA
Aroclor 1254	1137603	1181790	BA
Aroclor 1254	1137603	1181790	BA
Aroclor 1254	1137603	1181790	BA
Aroclor 1260	2713869	2760203	BA
Aroclor 1260	2713869	2760203	BA
Aroclor 1260	2713869	2760203	BA
Aroclor 1260	2713869	2760203	BA
Aroclor 1260	2713869	2760203	BA
Tetrachloro-m-xylene	10240983	10240983	
Decachlorobiphenyl	11057172	11057172	

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SAMPLE NO.

TZ1-170418-01-STB-04

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 04/19/2017 09:30
Matrix: Tissue SDG No.: 40148598
Date Extracted: 03/02/2018 06:50
Lab Sample ID: 40148598002
Date Analyzed: 03/07/2018 15:35
Lab File ID: 030718.B\030718019.D
Initial wt/vol: 9.9964 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)	19.0	J
11097-69-1	PCB-1254 (Aroclor 1254)	28.9	J
11096-82-5	PCB-1260 (Aroclor 1260)	28.8	J
1336-36-3	PCB, Total	76.7	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718019.D
Lab Smp Id: 40148598002 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 15:35
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40148598002,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * 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	9.996	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.049	11430	10434	0.913	0.03			
1.463	13749	10406	0.757	0.03			
1.729	11306	12893	1.140	0.03			
1.848	13854	13697	0.989	0.03		1 Aroclor 1221	
1.881	10436	11768	1.128	0.02			
2.182	20758	17573	0.847	0.05			
2.229	28818	29976	1.040	0.08			
2.268	13297	13157	0.989	0.03			
2.317	13220	12397	0.938	0.03			
2.356	29340	32276	1.100	0.08			
2.382	43809	44838	1.023	0.12			
2.551	8678794	9047938	1.043	24.79	$	2 Tetrachloro-m-xylene	
2.858	21303	16251	0.763	0.06		1 Aroclor 1221	
2.931	39065	25156	0.644	0.11		1 Aroclor 1221	
3.051	41878	37033	0.884	0.11			
3.094	16441	14071	0.856	0.04			
3.599	15942	13400	0.841	0.04		5 Aroclor 1016	BA
3.815	11321	10691	0.944	0.03			
3.859	24333	17037	0.700	0.06			
3.908	69220	40646	0.587	0.19		5 Aroclor 1016	BA
4.078	21322	18147	0.851	0.06		5 Aroclor 1016	BA
4.134	85777	69191	0.807	0.24			
4.299	175103	110842	0.633	0.50			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.347	125074	119469	0.955	0.35	6 Aroclor 1248
4.378	137399	96091	0.699	0.39	
4.434	23863	19232	0.806	0.06	
4.504	80301	65197	0.812	0.22	
4.540	58386	49171	0.842	0.16	
4.631	106432	87134	0.819	0.30	6 Aroclor 1248
4.673	30186	17178	0.569	0.08	
4.703	22106	17290	0.782	0.06	
4.769	22107	18687	0.845	0.06	
4.827	29816	27808	0.933	0.08	
4.851	73657	56764	0.771	0.21	
4.900	87840	72842	0.829	0.25	6 Aroclor 1248
4.934	106560	99253	0.931	0.30	
4.980	325859	162373	0.498	0.93	6 Aroclor 1248
5.046	94187	69878	0.742	0.26	
5.093	22229	18767	0.844	0.06	
5.126	67733	64442	0.951	0.19	6 Aroclor 1248
5.147	96788	72758	0.752	0.27	
5.188	258229	184373	0.714	0.73	
5.249	496361	426928	0.860	1.41	7 Aroclor 1254
5.300	562141	467742	0.832	1.60	
5.344	37540	33656	0.897	0.10	
5.371	81375	65547	0.805	0.23	
5.402	218389	195512	0.895	0.62	
5.427	59616	62510	1.049	0.17	
5.452	165015	143687	0.871	0.47	
5.495	158702	140065	0.883	0.45	7 Aroclor 1254
5.539	1277817	1270553	0.994	3.65	
5.597	523623	377243	0.720	1.49	7 Aroclor 1254
5.665	93870	63308	0.674	0.26	
5.695	86530	51676	0.597	0.24	
5.763	202796	175821	0.867	0.57	
5.798	110515	82708	0.748	0.31	
5.829	181620	136482	0.751	0.51	
5.878	899957	751250	0.835	2.57	
5.914	338341	218167	0.645	0.96	
5.976	44790	44977	1.004	0.12	
5.992	104185	88312	0.848	0.29	
6.018	62241	51566	0.828	0.17	
6.053	20505	23701	1.156	0.05	
6.082	344625	310854	0.902	0.98	
6.116	264723	238958	0.903	0.75	7 Aroclor 1254
6.143	1289331	1136962	0.882	3.68	
6.209	43639	27767	0.636	0.12	
6.258	114404	73993	0.647	0.32	
6.274	88564	81325	0.918	0.25	
6.334	176506	104044	0.589	0.50	
6.389	1187653	1016434	0.856	3.39	8 Aroclor 1260
6.422	98578	86171	0.874	0.28	
6.465	36259	26326	0.726	0.10	
6.520	159099	107037	0.673	0.45	
6.571	23950	25993	1.085	0.06	
6.599	527653	483420	0.916	1.50	
6.627	231496	225711	0.975	0.66	
6.649	176936	155371	0.878	0.50	
6.694	60609	41346	0.682	0.17	
6.753	26407	16385	0.620	0.07	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.807	93730	77833	0.830	0.26	
6.848	165062	144966	0.878	0.47	
6.892	134934	119967	0.889	0.38	
6.929	111794	88547	0.792	0.31	
6.973	12047	13595	1.129	0.03	
7.002	40317	35020	0.869	0.11	
7.033	168546	158202	0.939	0.48	
7.094	417852	382103	0.914	1.19	8 Aroclor 1260
7.125	54971	39285	0.715	0.15	
7.166	12516	9726	0.777	0.03	
7.210	20575	13263	0.645	0.05	
7.340	190817	160770	0.843	0.54	8 Aroclor 1260
7.371	62635	46047	0.735	0.17	
7.423	20029	15081	0.753	0.05	
7.477	180067	161710	0.898	0.51	
7.508	55590	59231	1.066	0.15	
7.530	172691	147571	0.855	0.49	8 Aroclor 1260
7.586	41390	22423	0.542	0.11	
7.647	31421	20911	0.666	0.08	
7.780	49114	41782	0.851	0.14	
7.816	101132	86404	0.854	0.28	
7.893	59861	35965	0.601	0.17	
7.989	138424	121453	0.877	0.39	8 Aroclor 1260
8.134	14997	11372	0.758	0.04	
8.364	200735	181879	0.906	0.57	
8.467	16753	17191	1.026	0.04	
8.660	10632624	9382431	0.882	30.96	$ 12 Decachlorobiphenyl
8.793	10210	9946	0.974	0.02	
8.815	16232	12651	0.779	0.04	
9.257	20396	16929	0.830	0.05	
	35003093	31612287		100.000	

Total unknown % area = 32

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718019.D
Lab Smp Id: 40148598002 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 15:35
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40148598002,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100-M)/100) * 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	9.996	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			
Qualifier signal(s) failed ratio test.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.550	2.550	0.000	8678794	0.07329	37			
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			
4.346	4.347	-0.001	125073	0.05037	25	0.00- 20.00	100.00(M)	BA
4.630	4.632	-0.002	106432	0.02389	12	0.00- 20.00	85.10	BA
4.899	4.900	-0.001	87840	0.04082	20	0.00- 20.00	70.23	BA
4.979	4.967	0.012	325859	0.05778	29	0.00- 20.00	260.54	BA
5.125	5.127	-0.002	67733	0.01718	8.6	0.00- 20.00	54.15	BA
		Average of Peak Concentrations =			19			
7 Aroclor 1254					CAS #: 11097-69-1			
5.249	5.249	0.000	496360	0.08730	44	0.00- 20.00	100.00(M)	BA
5.494	5.496	-0.002	158701	0.03374	17	0.00- 20.00	31.97	BA
5.596	5.598	-0.002	523622	0.06075	30	0.00- 20.00	105.49	BA
6.115	6.117	-0.002	264722	0.04929	25	0.00- 20.00	53.33	BA
6.388	6.388	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			
6.388	6.388	0.000	1187653	0.12123	61	0.00- 20.00	100.00(M)	BA
7.093	7.092	0.001	417851	0.03637	18	0.00- 20.00	35.18	BA
7.339	7.340	-0.001	190817	0.03444	17	0.00- 20.00	16.07	BA
7.530	7.531	-0.001	172690	0.05122	26	0.00- 20.00	14.54	BA
7.989	7.988	0.001	138424	0.04465	22	0.00- 20.00	11.66	BA
		Average of Peak Concentrations =			29			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.659	8.660	-0.001	10632624	0.08248	41			

QC Flag Legend

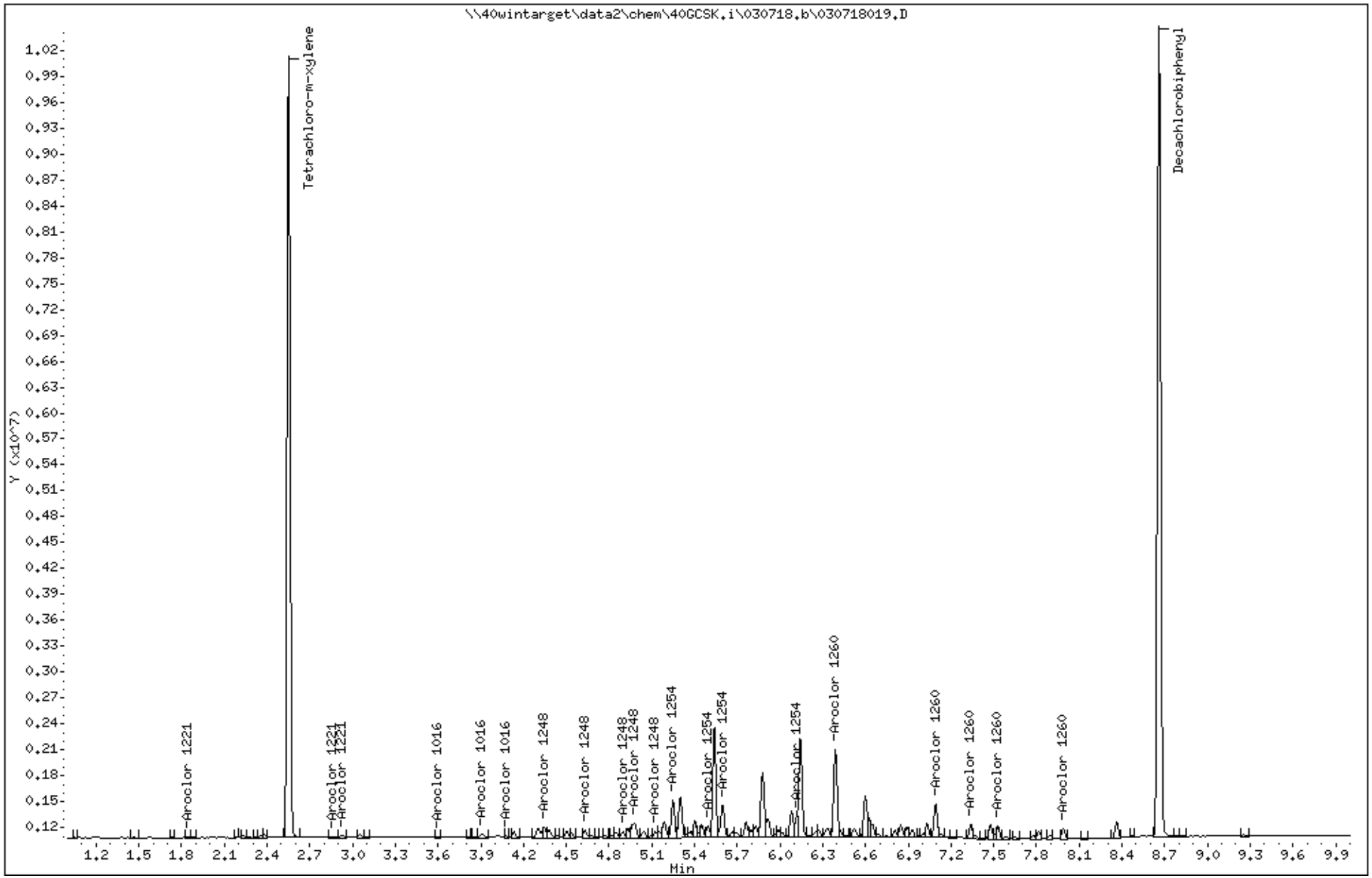
M - Compound response manually integrated.

Review Codes Legend

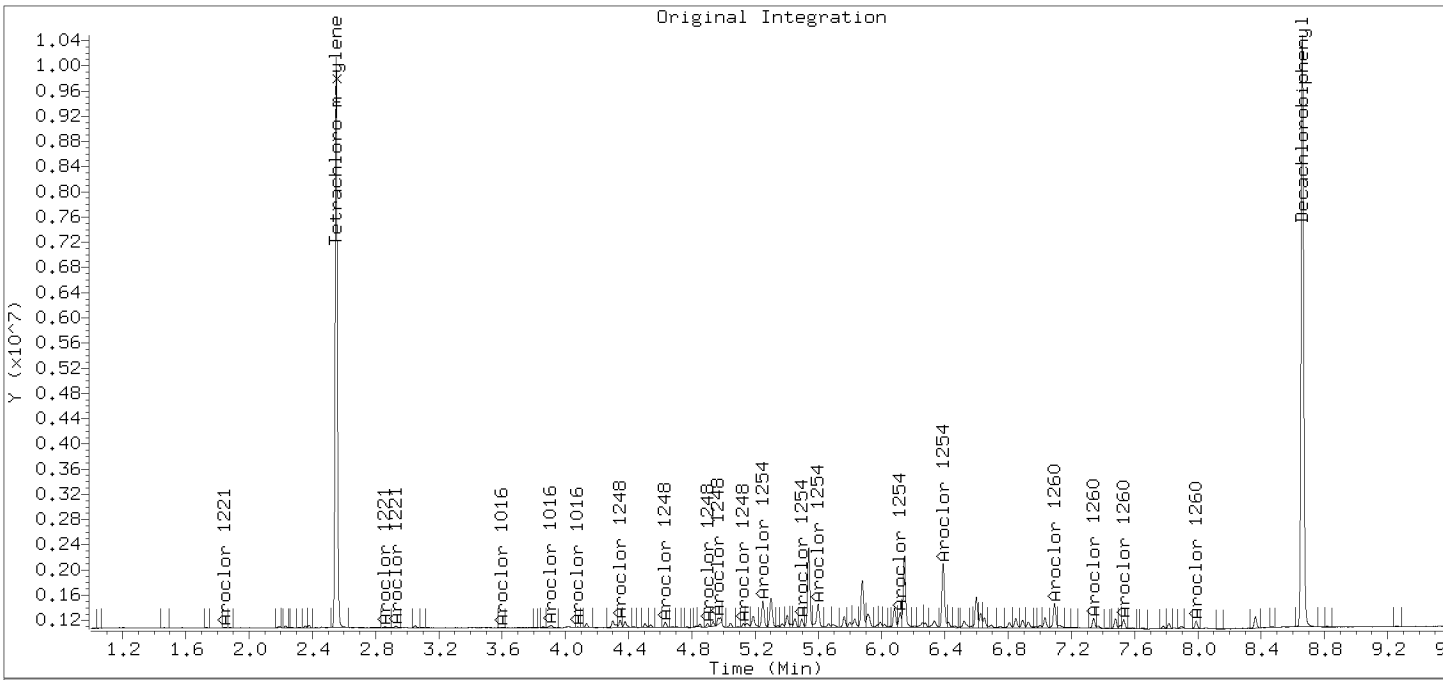
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

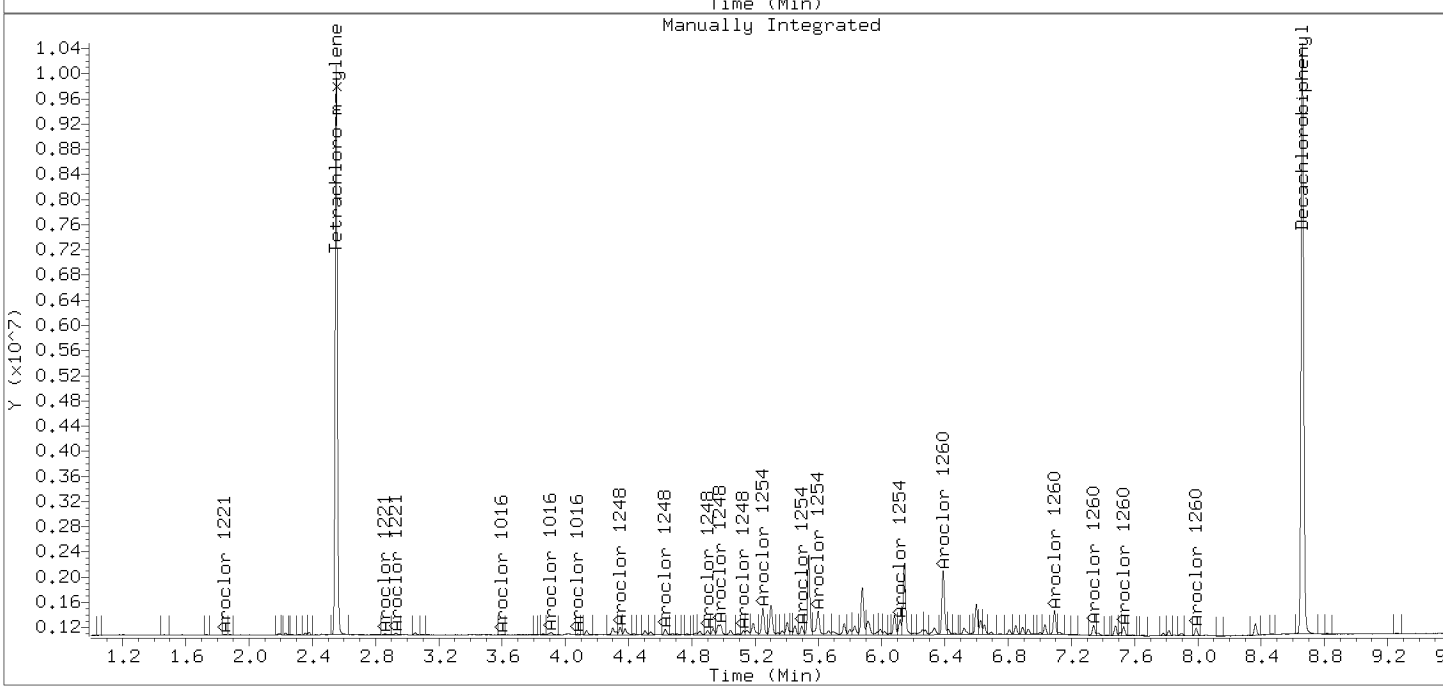
Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b\030718019.D
Date : 07-MAR-2018 15:35
Client ID: TZ1-170418-01-STB-0
Sample Info: 40148598002,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b/030718019.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 15:35 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40148598002





Manually Integrated Compounds

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

Aroclor 1232	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1242	0	0	
Aroclor 1248	117834	125073	BA
Aroclor 1248	117834	125073	BA
Aroclor 1248	117834	125073	BA
Aroclor 1248	117834	125073	BA
Aroclor 1248	117834	125073	BA
Aroclor 1254	474502	496360	BA
Aroclor 1254	474502	496360	BA
Aroclor 1254	474502	496360	BA
Aroclor 1254	474502	496360	BA
Aroclor 1254	474502	496360	BA
Aroclor 1260	1186365	1187653	BA
Aroclor 1260	1186365	1187653	BA
Aroclor 1260	1186365	1187653	BA
Aroclor 1260	1186365	1187653	BA
Aroclor 1260	1186365	1187653	BA
Tetrachloro-m-xylene	8678794	8678794	
Decachlorobiphenyl	10632624	10632624	

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SAMPLE NO.

TZ1-170418-01-STB-03

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 04/19/2017 09:30
Matrix: Tissue SDG No.: 40148598
Date Extracted: 03/02/2018 06:50
Lab Sample ID: 40148598003
Date Analyzed: 03/07/2018 15:51
Lab File ID: 030718.B\030718021.D
Initial wt/vol: 10.0303 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)	67.9	
11097-69-1	PCB-1254 (Aroclor 1254)	86.0	
11096-82-5	PCB-1260 (Aroclor 1260)	104	
1336-36-3	PCB, Total	258	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718021.D
Lab Smp Id: 40148598003 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 15:51
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40148598003,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.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	10.030	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.126	11899	12165	1.022	0.01		
1.181	12994	17826	1.372	0.01		
1.208	41175	24701	0.600	0.05		
1.413	12516	9721	0.777	0.01		
1.460	10214	11051	1.082	0.01		
1.822	37502	31820	0.848	0.05		
2.004	10441	12384	1.186	0.01		
2.061	12004	11456	0.954	0.01		
2.119	10238	9977	0.974	0.01		
2.230	27963	33848	1.210	0.03		
2.271	13502	12288	0.910	0.01		
2.353	35524	37109	1.045	0.04		
2.381	45361	48020	1.059	0.06		
2.415	15622	11392	0.729	0.02		
2.475	53076	47275	0.891	0.07		
2.551	10411289	10827401	1.040	14.22	$ 2 Tetrachloro-m-xylene	
2.860	25102	22956	0.915	0.03		
2.910	11634	18637	1.602	0.01		
2.929	43056	29426	0.683	0.05		
2.988	10928	12039	1.102	0.01		
3.048	124561	97859	0.786	0.17		
3.094	59248	63330	1.069	0.08		
3.135	28750	19467	0.677	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.398	72122	73754	1.023	0.09	
3.425	87586	81831	0.934	0.11	
3.514	41354	38437	0.929	0.05	
3.602	90762	78338	0.863	0.12	
3.725	8623	9262	1.074	0.01	
3.813	66609	62130	0.933	0.09	
3.840	51435	31625	0.615	0.07	
3.908	370810	199730	0.539	0.50	
4.021	89158	65958	0.740	0.12	
4.076	72895	59153	0.811	0.09	
4.143	70312	41312	0.588	0.09	
4.219	26504	17428	0.658	0.03	
4.299	473895	444638	0.938	0.64	
4.346	596893	585312	0.981	0.81	6 Aroclor 1248
4.378	557677	460395	0.826	0.76	
4.435	48436	36114	0.746	0.06	
4.504	275805	240156	0.871	0.37	
4.539	187807	173629	0.925	0.25	
4.579	29831	28722	0.963	0.04	
4.600	54663	57081	1.044	0.07	
4.632	410981	380198	0.925	0.56	6 Aroclor 1248
4.673	42194	37016	0.877	0.05	
4.705	73950	66435	0.898	0.10	
4.746	19945	20436	1.025	0.02	
4.767	65484	55260	0.844	0.08	
4.824	100987	82085	0.813	0.13	
4.854	77819	66964	0.861	0.10	
4.900	247084	230234	0.932	0.33	6 Aroclor 1248
4.935	297078	282461	0.951	0.40	
4.981	1018351	554594	0.545	1.39	6 Aroclor 1248
5.045	309965	251542	0.812	0.42	
5.092	41310	39032	0.945	0.05	
5.125	207784	193345	0.931	0.28	6 Aroclor 1248
5.147	116126	111398	0.959	0.15	
5.188	726816	597592	0.822	0.99	
5.248	1517644	1330231	0.877	2.07	7 Aroclor 1254
5.300	1720133	1434924	0.834	2.35	
5.343	113116	102266	0.904	0.15	
5.370	211319	191505	0.906	0.28	
5.402	773195	721276	0.933	1.05	
5.452	474932	427065	0.899	0.64	
5.495	509404	479909	0.942	0.69	7 Aroclor 1254
5.539	4136564	4009198	0.969	5.65	
5.570	124430	173563	1.395	0.17	
5.597	1398054	1151603	0.824	1.91	7 Aroclor 1254
5.642	25566	40092	1.568	0.03	
5.665	217291	182718	0.841	0.29	
5.691	243725	155767	0.639	0.33	
5.762	664612	629818	0.948	0.90	
5.798	312218	251324	0.805	0.42	
5.830	599501	428262	0.714	0.81	
5.878	2873413	2331526	0.811	3.92	
5.911	599043	486796	0.813	0.81	
5.991	467841	294263	0.629	0.63	
6.018	183374	163855	0.894	0.25	
6.054	57400	61808	1.077	0.07	
6.080	1192391	1081832	0.907	1.62	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.115	820631	758028	0.924	1.12	7 Aroclor 1254
6.143	4371976	3725793	0.852	5.97	
6.257	404626	291184	0.720	0.55	
6.275	271259	259169	0.955	0.37	
6.332	599362	370280	0.618	0.81	
6.388	4051710	3321332	0.820	5.53	8 Aroclor 1260
6.422	347222	297047	0.855	0.47	
6.462	96466	81836	0.848	0.13	
6.521	552721	353905	0.640	0.75	
6.572	69044	83495	1.209	0.09	
6.598	1860395	1688129	0.907	2.54	
6.625	786219	751963	0.956	1.07	
6.649	658082	591578	0.899	0.89	
6.692	227449	161448	0.710	0.31	
6.750	87717	61902	0.706	0.11	
6.806	327375	281493	0.860	0.44	
6.847	604540	538536	0.891	0.82	
6.891	506105	462836	0.915	0.69	
6.927	334911	294131	0.878	0.45	
6.978	49548	39724	0.802	0.06	
7.001	123215	122253	0.992	0.16	
7.031	758699	720285	0.949	1.03	
7.092	1681036	1540441	0.916	2.29	8 Aroclor 1260
7.125	221916	140419	0.633	0.30	
7.211	46263	36366	0.786	0.06	
7.250	27876	13123	0.471	0.03	
7.339	697549	636696	0.913	0.95	8 Aroclor 1260
7.370	212823	161766	0.760	0.29	
7.425	47255	33424	0.707	0.06	
7.478	695704	601895	0.865	0.95	
7.508	158939	174739	1.099	0.21	
7.530	665762	576398	0.866	0.90	8 Aroclor 1260
7.583	125190	71892	0.574	0.17	
7.616	33264	30372	0.913	0.04	
7.648	140381	93966	0.669	0.19	
7.779	156184	142911	0.915	0.21	
7.817	318597	264264	0.829	0.43	
7.851	59133	50885	0.861	0.08	
7.900	241370	137602	0.570	0.32	
7.951	30742	23396	0.761	0.04	
7.987	500233	421935	0.843	0.68	8 Aroclor 1260
8.046	72386	45114	0.623	0.09	
8.141	23453	20345	0.867	0.03	
8.363	607450	558758	0.920	0.83	
8.404	10241	10787	1.053	0.01	
8.464	48680	41541	0.853	0.06	
8.538	21676	17448	0.805	0.02	
8.660	11741396	10140899	0.864	16.74	$ 12 Decachlorobiphenyl
8.792	28111	22854	0.813	0.03	
8.816	54320	45049	0.829	0.07	
9.255	58274	49211	0.844	0.07	
9.372	9778	8934	0.914	0.01	
9.789	15052	13621	0.905	0.02	
	73169119	64688744		100.000	

Total unknown % area = 50

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718021.D
Lab Smp Id: 40148598003 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 15:51
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40148598003,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.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	10.030	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.551	2.550	0.001	10411288	0.08792	44			

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

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			
4.346	4.347	-0.001	596892	0.24038	120	0.00- 20.00	100.00(M)	BA
4.631	4.632	-0.001	410980	0.09223	46	0.00- 20.00	68.85	BA
4.899	4.900	-0.001	247083	0.11483	57	0.00- 20.00	41.39	BA
4.980	4.967	0.013	1018350	0.18056	90	0.00- 20.00	170.61	BA
5.124	5.127	-0.003	207784	0.05271	26	0.00- 20.00	34.81	BA
			Average of Peak Concentrations =		68			
7 Aroclor 1254					CAS #: 11097-69-1			
5.248	5.249	-0.001	1517644	0.26694	130	0.00- 20.00	100.00(M)	BA
5.494	5.496	-0.002	509403	0.10831	54	0.00- 20.00	33.57	BA
5.597	5.598	-0.001	1398053	0.16221	81	0.00- 20.00	92.12	BA
6.115	6.117	-0.002	820631	0.15280	76	0.00- 20.00	54.07	BA
6.388	6.388	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
			Average of Peak Concentrations =		86			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.388	-0.001	4051709	0.41358	210	0.00- 20.00	100.00(M)	BA
7.092	7.092	0.000	1681035	0.14632	73	0.00- 20.00	41.49	BA
7.339	7.340	-0.001	697549	0.12589	63	0.00- 20.00	17.22	BA
7.529	7.531	-0.002	665761	0.19745	98	0.00- 20.00	16.43	BA
7.986	7.988	-0.002	500232	0.16137	80	0.00- 20.00	12.35	BA
			Average of Peak Concentrations =		100			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.659	8.660	-0.001	11741395	0.09108	45			

QC Flag Legend

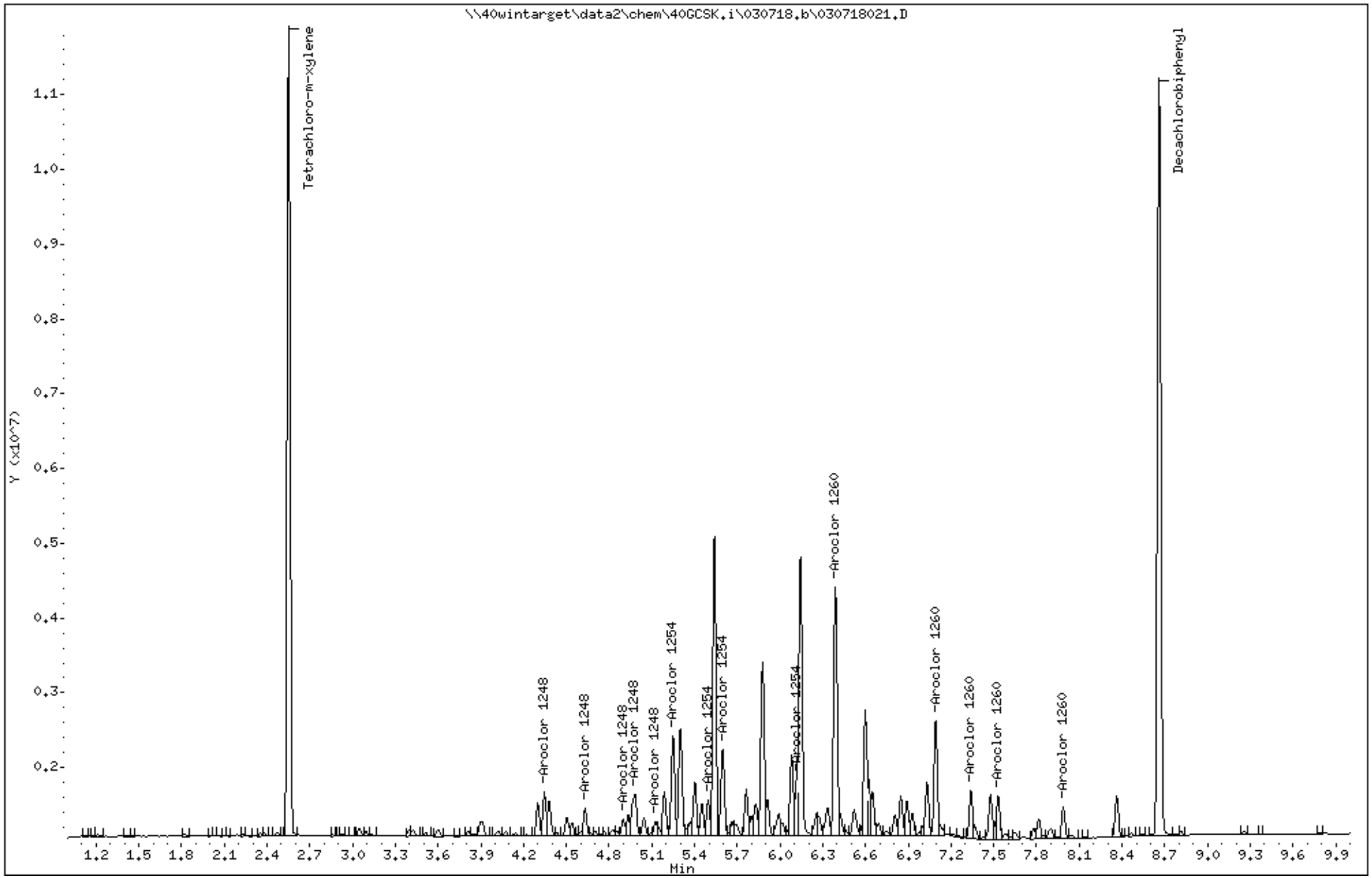
M - Compound response manually integrated.

Review Codes Legend

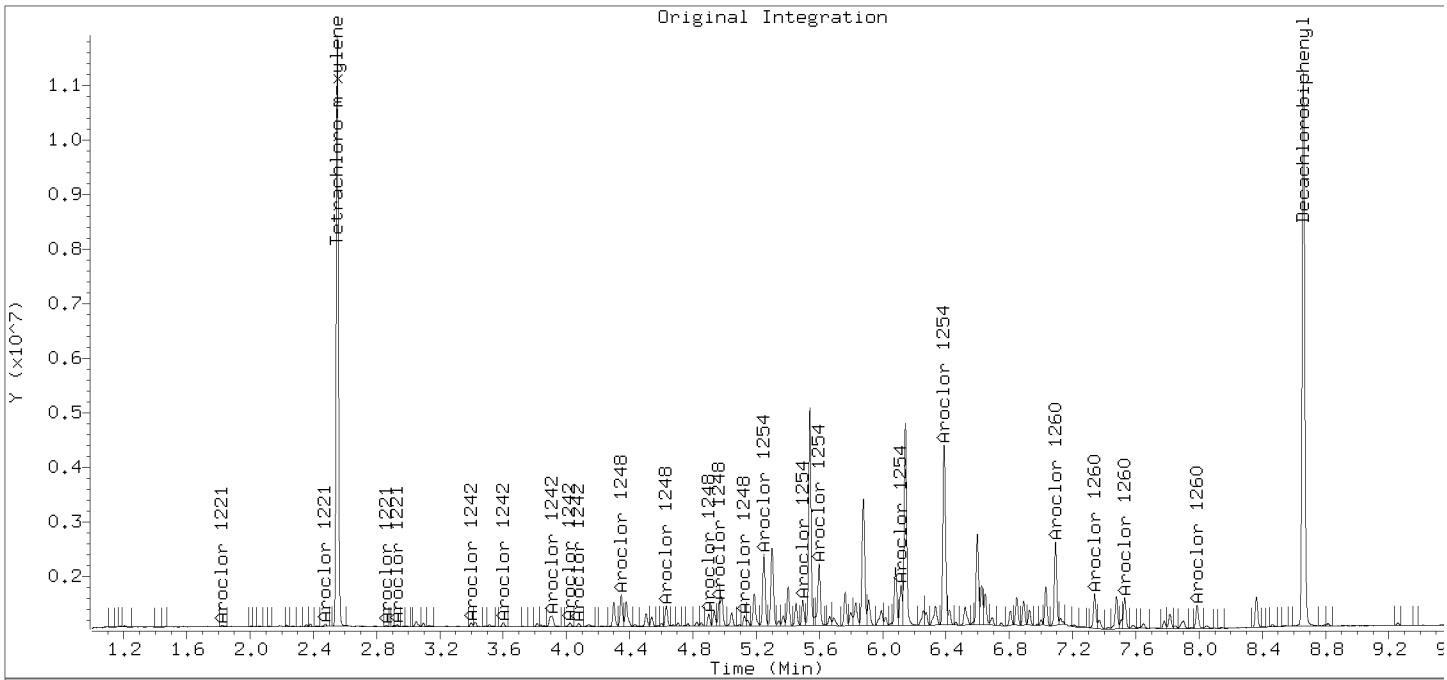
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

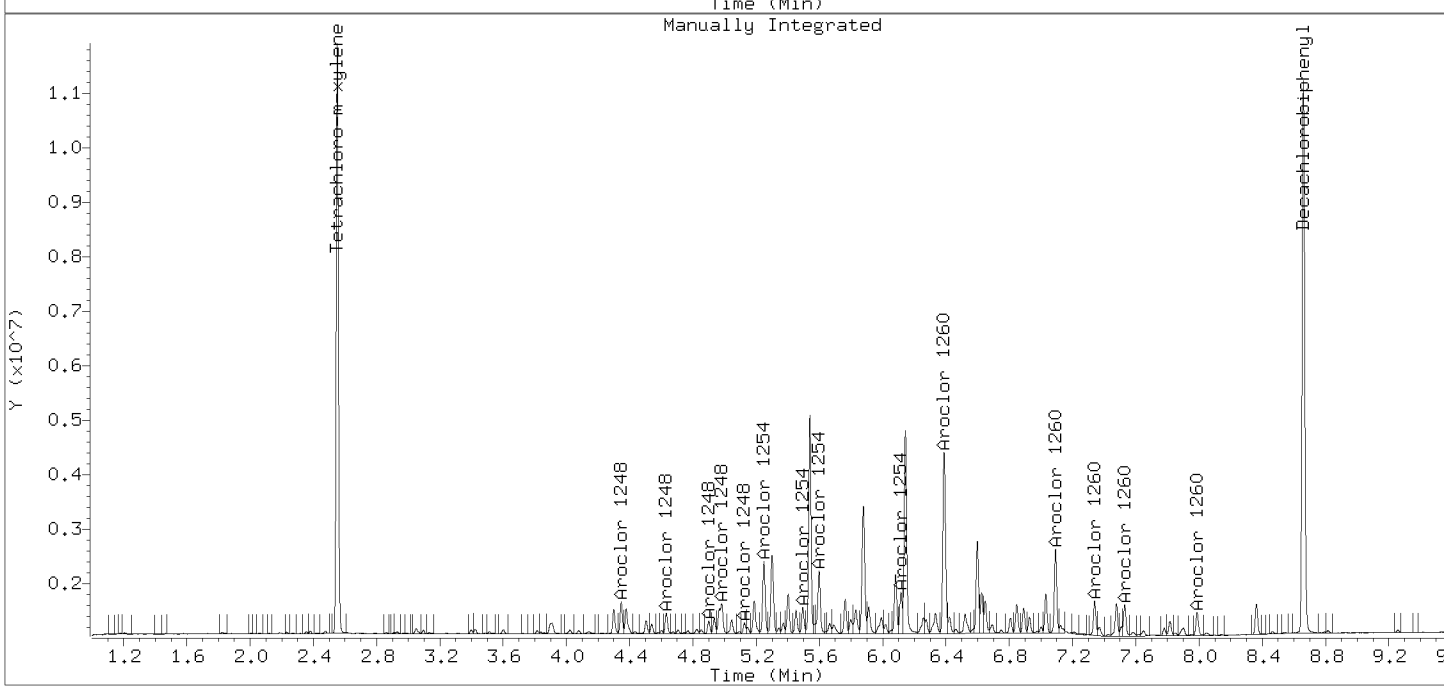
Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b\030718021.D
Date : 07-MAR-2018 15:51
Client ID: TZ1-170418-01-STB-0
Sample Info: 40148598003,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b/030718021.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 15:51 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40148598003





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	72121	0	
Aroclor 1016	72121	0	
Aroclor 1016	72121	0	
Aroclor 1016	72121	0	
Aroclor 1016	72121	0	
Aroclor 1221	37502	0	
Aroclor 1221	37502	0	
Aroclor 1221	37502	0	
Aroclor 1221	37502	0	
Aroclor 1221	37502	0	
Aroclor 1232	43056	0	
Aroclor 1232	43056	0	
Aroclor 1232	43056	0	
Aroclor 1232	43056	0	

Aroclor 1232	43056	0	
Aroclor 1242	72121	0	
Aroclor 1242	72121	0	
Aroclor 1242	72121	0	
Aroclor 1242	72121	0	
Aroclor 1242	72121	0	
Aroclor 1248	591495	596892	BA
Aroclor 1248	591495	596892	BA
Aroclor 1248	591495	596892	BA
Aroclor 1248	591495	596892	BA
Aroclor 1248	591495	596892	BA
Aroclor 1254	1477896	1517644	BA
Aroclor 1254	1477896	1517644	BA
Aroclor 1254	1477896	1517644	BA
Aroclor 1254	1477896	1517644	BA
Aroclor 1254	1477896	1517644	BA
Aroclor 1260	3974103	4051709	BA
Aroclor 1260	3974103	4051709	BA
Aroclor 1260	3974103	4051709	BA
Aroclor 1260	3974103	4051709	BA
Aroclor 1260	3974103	4051709	BA
Tetrachloro-m-xylene	10411288	10411288	
Decachlorobiphenyl	11741395	11741395	

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SAMPLE NO.

TZ1-170418-01-STB-02

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 04/19/2017 09:30
Matrix: Tissue SDG No.: 40148598
Date Extracted: 03/02/2018 06:50
Lab Sample ID: 40148598004
Date Analyzed: 03/07/2018 16:07
Lab File ID: 030718.B\030718023.D
Initial wt/vol: 10.0362 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)	73.0	
11097-69-1	PCB-1254 (Aroclor 1254)	94.6	
11096-82-5	PCB-1260 (Aroclor 1260)	96.2	
1336-36-3	PCB, Total	264	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718023.D
Lab Smp Id: 40148598004 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 16:07
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40148598004,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.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	10.036	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.020	30576	30056	0.983	0.03		
1.092	53966	46564	0.863	0.06		
1.126	92557	101786	1.100	0.11		
1.158	28471	28649	1.006	0.03		
1.183	60903	60862	0.999	0.07		
1.207	61638	61738	1.002	0.07		
1.232	35323	33150	0.938	0.04		
1.357	10225	12222	1.195	0.01		
1.364	19387	20407	1.053	0.02		
1.465	17808	23539	1.322	0.02		
1.531	15994	18345	1.147	0.01		
1.592	28884	35710	1.236	0.03		
1.658	39444	23484	0.595	0.04		
1.733	10606	14911	1.406	0.01		
1.823	976798	1087640	1.113	1.16		
1.881	18761	17413	0.928	0.02		
2.004	45054	43141	0.958	0.05		
2.030	20707	24309	1.174	0.02		
2.051	35931	18584	0.517	0.04		
2.120	54539	50986	0.935	0.06		
2.185	32183	27609	0.858	0.03		
2.231	53994	60799	1.126	0.06		
2.272	27950	25269	0.904	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.319	19138	19897	1.040	0.02	
2.356	70796	73113	1.033	0.08	
2.380	96872	100271	1.035	0.11	
2.432	174045	146378	0.841	0.20	
2.475	168598	122243	0.725	0.20	
2.503	40458	25024	0.619	0.04	
2.551	12117123	12629751	1.042	14.42	$ 2 Tetrachloro-m-xyle
2.618	56029	36779	0.656	0.06	
2.679	39134	23479	0.600	0.04	
2.711	48780	42116	0.863	0.05	
2.791	38250	28728	0.751	0.04	
2.857	38590	36266	0.940	0.04	
2.907	28114	31304	1.113	0.03	
2.930	47935	40693	0.849	0.05	
2.990	14909	14977	1.005	0.01	
3.051	471791	342194	0.725	0.56	
3.095	90356	87991	0.974	0.10	
3.133	27574	30267	1.098	0.03	
3.151	51943	42748	0.823	0.06	
3.240	13721	25145	1.833	0.01	
3.261	190116	193237	1.016	0.22	
3.325	29211	32406	1.109	0.03	
3.397	97002	94431	0.973	0.11	
3.425	90596	89956	0.993	0.10	
3.515	36429	38378	1.054	0.04	
3.600	110095	95377	0.866	0.13	
3.726	15449	10431	0.675	0.01	
3.814	66681	63999	0.960	0.07	
3.840	35479	31877	0.898	0.04	
3.908	466192	239735	0.514	0.55	
4.022	122719	91191	0.743	0.14	
4.079	88662	67878	0.766	0.10	
4.145	77231	50039	0.648	0.09	
4.224	29643	23787	0.802	0.03	
4.300	580041	536609	0.925	0.69	
4.346	593072	580270	0.978	0.70	6 Aroclor 1248
4.378	481892	369174	0.766	0.57	
4.436	74677	57382	0.768	0.08	
4.504	318640	273208	0.857	0.37	
4.540	181679	171457	0.944	0.21	
4.601	1526648	1602130	1.049	1.81	
4.632	426707	384250	0.901	0.50	6 Aroclor 1248
4.673	36883	34469	0.935	0.04	
4.706	78979	67182	0.851	0.09	
4.746	28600	27897	0.975	0.03	
4.768	52203	49695	0.952	0.06	
4.825	143417	113198	0.789	0.17	
4.854	66794	60534	0.906	0.07	
4.900	265546	237538	0.895	0.31	6 Aroclor 1248
4.934	438489	411576	0.939	0.52	
4.982	1132329	640182	0.565	1.34	6 Aroclor 1248
5.045	329866	245284	0.744	0.39	
5.091	75108	67894	0.904	0.08	
5.125	291124	273694	0.940	0.34	6 Aroclor 1248
5.145	141973	137955	0.972	0.16	
5.187	916571	733199	0.800	1.09	
5.249	1604173	1376512	0.858	1.90	7 Aroclor 1254

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.301	1913841	1531054	0.800	2.27	
5.343	147512	133625	0.906	0.17	
5.371	267153	223809	0.838	0.31	
5.403	1115765	1025417	0.919	1.32	
5.450	493381	432374	0.876	0.58	
5.495	543081	490946	0.904	0.64	7 Aroclor 1254
5.539	5105895	5005581	0.980	6.07	
5.598	1643608	1186461	0.722	1.95	7 Aroclor 1254
5.642	50657	64810	1.279	0.06	
5.665	247705	199568	0.806	0.29	
5.691	309385	187222	0.605	0.36	
5.762	642338	570441	0.888	0.76	
5.798	429162	353779	0.824	0.51	
5.829	663093	469116	0.707	0.78	
5.878	3046307	2483305	0.815	3.62	
5.911	893366	800722	0.896	1.06	
5.972	128726	160770	1.249	0.15	
5.992	550825	437223	0.794	0.65	
6.019	192917	169038	0.876	0.22	
6.056	103526	109976	1.062	0.12	
6.081	1241726	1120159	0.902	1.47	
6.115	921513	814536	0.884	1.09	7 Aroclor 1254
6.143	4446026	3768336	0.848	5.29	
6.257	407252	274671	0.674	0.48	
6.275	240715	232500	0.966	0.28	
6.333	779585	495011	0.635	0.92	
6.388	4201472	3458994	0.823	5.00	8 Aroclor 1260
6.422	374625	333083	0.889	0.44	
6.463	143735	100549	0.700	0.17	
6.495	38014	52622	1.384	0.04	
6.520	515722	307157	0.596	0.61	
6.598	1693975	1446506	0.854	2.01	
6.625	869368	796689	0.916	1.03	
6.648	555113	506263	0.912	0.66	
6.685	441287	262785	0.595	0.52	
6.750	76540	55571	0.726	0.09	
6.807	326858	253442	0.775	0.38	
6.848	522409	440813	0.844	0.62	
6.890	488689	425337	0.870	0.58	
6.928	316303	240803	0.761	0.37	
6.978	29289	29008	0.990	0.03	
7.000	102376	90198	0.881	0.12	
7.032	771473	729567	0.946	0.91	
7.093	1400358	1256495	0.897	1.66	8 Aroclor 1260
7.127	238977	132248	0.553	0.28	
7.211	56120	34988	0.623	0.06	
7.253	86059	30556	0.355	0.10	
7.340	626568	556047	0.887	0.74	8 Aroclor 1260
7.368	230597	161715	0.701	0.27	
7.426	119216	59587	0.500	0.14	
7.479	458253	408731	0.892	0.54	
7.507	271950	257813	0.948	0.32	
7.530	577081	420134	0.728	0.68	8 Aroclor 1260
7.583	195007	113956	0.584	0.23	
7.616	68908	62419	0.906	0.08	
7.650	423657	246383	0.582	0.50	
7.713	82645	61760	0.747	0.09	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.751	33608	42378	1.261	0.03	
7.783	134870	110303	0.818	0.16	
7.818	310367	240238	0.774	0.36	
7.851	92016	61182	0.665	0.10	
7.902	318142	161582	0.508	0.37	
7.952	66441	41829	0.630	0.07	
7.988	405700	294684	0.726	0.48	8 Aroclor 1260
8.049	99511	47442	0.477	0.11	
8.091	22220	16939	0.762	0.02	
8.140	36666	24729	0.674	0.04	
8.195	10710	10643	0.994	0.01	
8.287	14167	13049	0.921	0.01	
8.362	508433	462037	0.909	0.60	
8.466	49414	35735	0.723	0.05	
8.535	32195	23651	0.735	0.03	
8.660	12277955	10633737	0.866	15.41	$ 12 Decachlorobiphenyl
8.795	14830	20480	1.381	0.01	
8.814	58551	48332	0.825	0.06	
8.931	13058	11546	0.884	0.01	
9.258	29412	28468	0.968	0.03	
	84022736	73742201		100.000	

Total unknown % area = 53

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718023.D
Lab Smp Id: 40148598004 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 16:07
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40148598004,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.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	10.036	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			
2.551	2.550	0.001	12117122	0.10232	51			
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			
4.346	4.347	-0.001	593072	0.23884	120	0.00- 20.00	100.00(M)	BA
4.631	4.632	-0.001	426707	0.09576	48	0.00- 20.00	71.95	BA
4.899	4.900	-0.001	265545	0.12341	61	0.00- 20.00	44.77	BA
4.982	4.967	0.015	1132328	0.20077	100	0.00- 20.00	190.93	BA
5.125	5.127	-0.002	291123	0.07386	37	0.00- 20.00	49.09	BA
Average of Peak Concentrations =					73			
7 Aroclor 1254					CAS #: 11097-69-1			
5.248	5.249	-0.001	1604173	0.28216	140	0.00- 20.00	100.00(M)	BA
5.495	5.496	-0.001	543080	0.11547	58	0.00- 20.00	33.85	BA
5.598	5.598	0.000	1643608	0.19070	95	0.00- 20.00	102.46	BA
6.115	6.117	-0.002	921512	0.17159	85	0.00- 20.00	57.44	BA
6.388	6.388	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					95			
8 Aroclor 1260					CAS #: 11096-82-5			
6.388	6.388	0.000	4201472	0.42887	210	0.00- 20.00	100.00(M)	BA
7.092	7.092	0.000	1400358	0.12189	61	0.00- 20.00	33.33	BA
7.339	7.340	-0.001	626567	0.11308	56	0.00- 20.00	14.91	BA
7.530	7.531	-0.001	577081	0.17115	85	0.00- 20.00	13.74	BA
7.987	7.988	-0.001	405699	0.13087	65	0.00- 20.00	9.66	BA
Average of Peak Concentrations =					96			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.660	8.660	0.000	12277954	0.09525	47			

QC Flag Legend

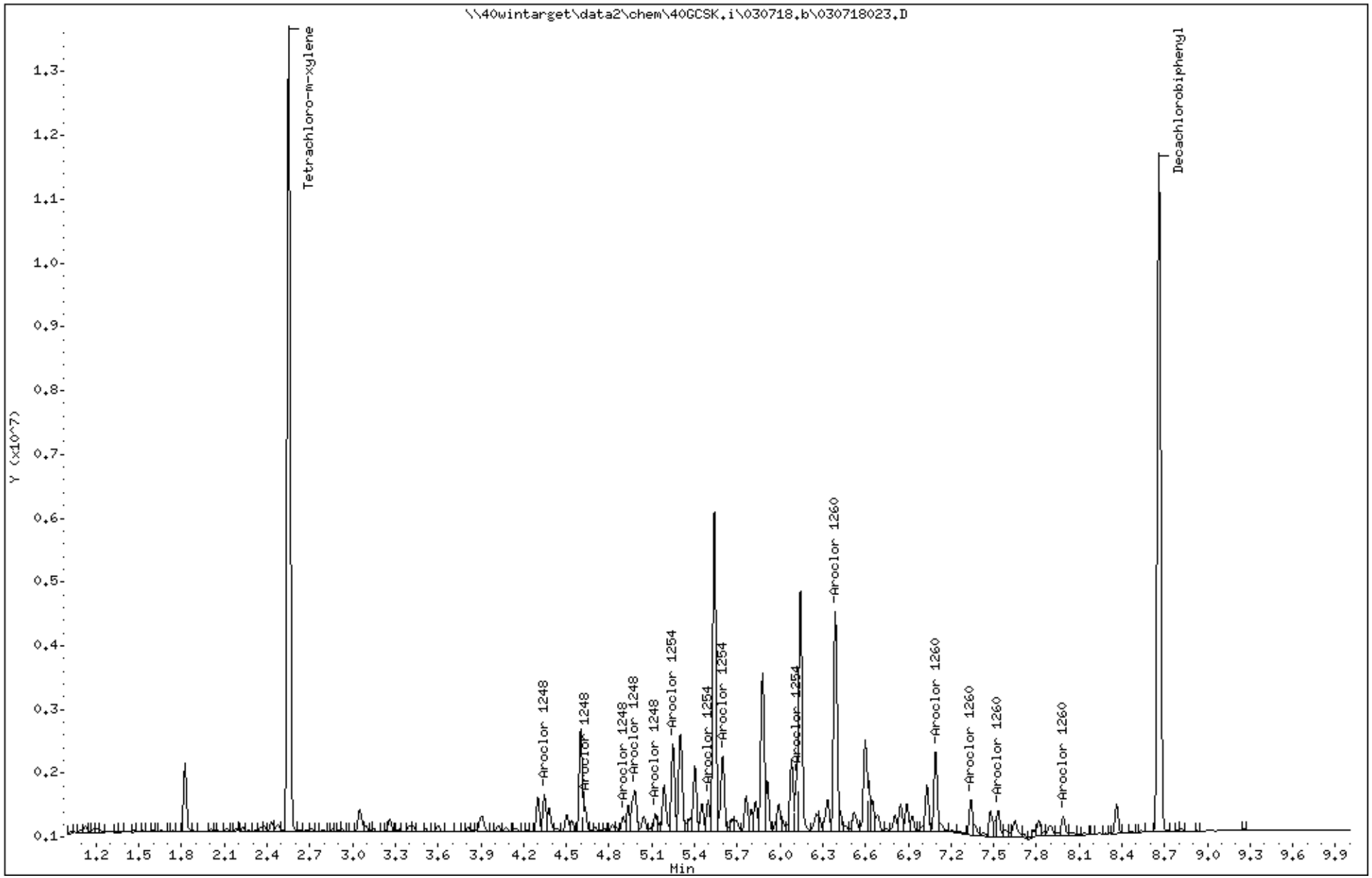
M - Compound response manually integrated.

Review Codes Legend

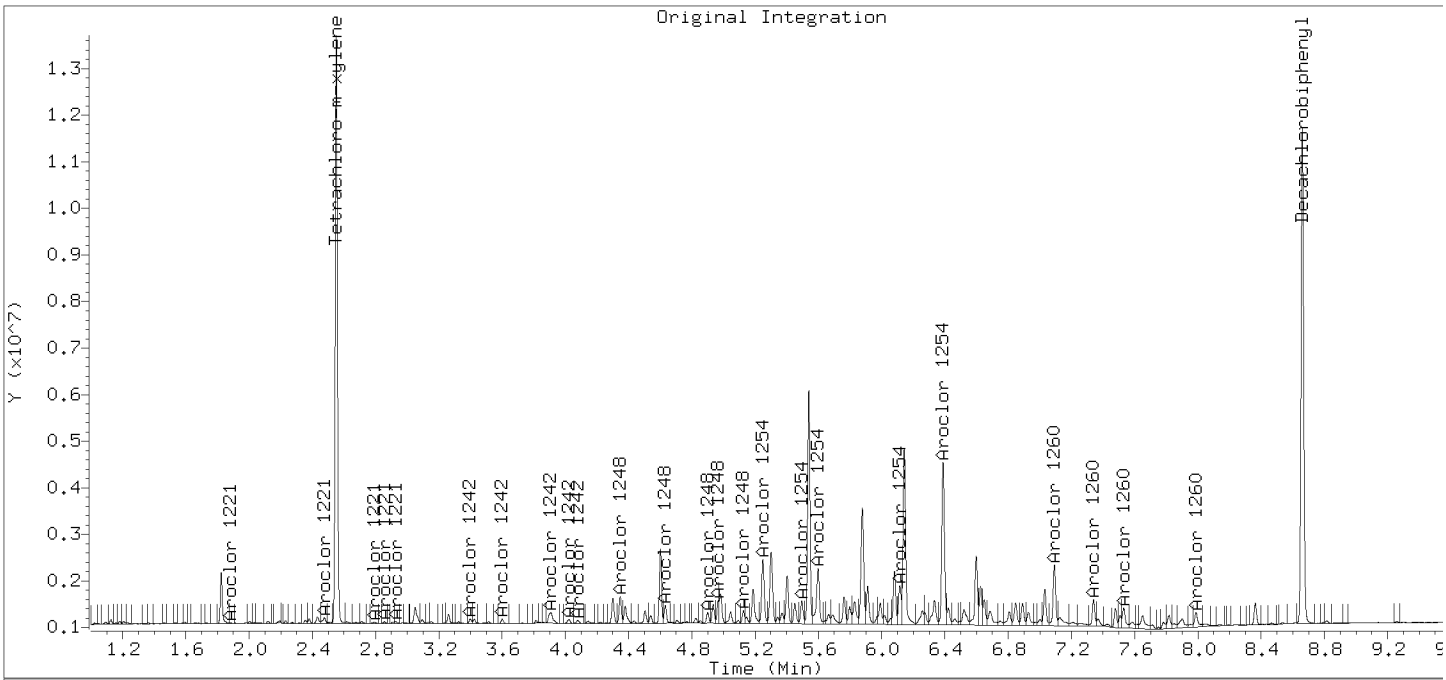
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

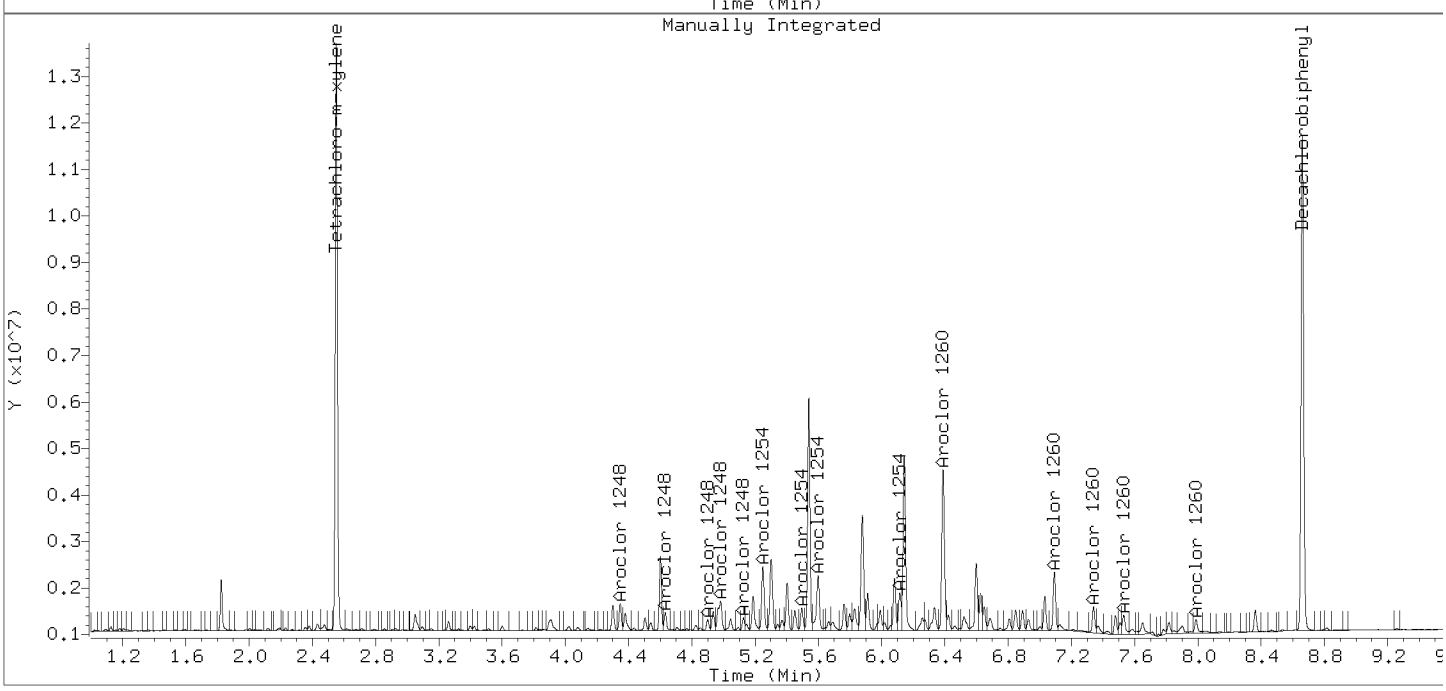
Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b\030718023.D
Date : 07-MAR-2018 16:07
Client ID: TZ1-170418-01-STB-0
Sample Info: 40148598004,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b/030718023.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 16:07 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40148598004





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	97001	0	
Aroclor 1016	97001	0	
Aroclor 1016	97001	0	
Aroclor 1016	97001	0	
Aroclor 1016	97001	0	
Aroclor 1221	18761	0	
Aroclor 1221	18761	0	
Aroclor 1221	18761	0	
Aroclor 1221	18761	0	
Aroclor 1221	18761	0	
Aroclor 1232	47935	0	
Aroclor 1232	47935	0	
Aroclor 1232	47935	0	
Aroclor 1232	47935	0	

Aroclor 1232	47935	0	
Aroclor 1242	97001	0	
Aroclor 1242	97001	0	
Aroclor 1242	97001	0	
Aroclor 1242	97001	0	
Aroclor 1242	97001	0	
Aroclor 1248	580419	593072	BA
Aroclor 1248	580419	593072	BA
Aroclor 1248	580419	593072	BA
Aroclor 1248	580419	593072	BA
Aroclor 1248	580419	593072	BA
Aroclor 1254	1599833	1604173	BA
Aroclor 1254	1599833	1604173	BA
Aroclor 1254	1599833	1604173	BA
Aroclor 1254	1599833	1604173	BA
Aroclor 1254	1599833	1604173	BA
Aroclor 1260	4286526	4201472	BA
Aroclor 1260	4286526	4201472	BA
Aroclor 1260	4286526	4201472	BA
Aroclor 1260	4286526	4201472	BA
Aroclor 1260	4286526	4201472	BA
Tetrachloro-m-xylene	12117122	12117122	
Decachlorobiphenyl	12277954	12277954	

==========

SAMPLE NO.

TZ1-170418-01-STB-01

PCB - FORM I SVOA-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay
Contract: HUDSON RIVER REMEDIAL ACTION M
Date Received: 04/19/2017 09:30
Matrix: Tissue SDG No.: 40148598
Date Extracted: 03/02/2018 06:50
Lab Sample ID: 40148598005
Date Analyzed: 03/07/2018 16:23
Lab File ID: 030718.B\030718025.D
Initial wt/vol: 10.0161 Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	229	
11097-69-1	PCB-1254 (Aroclor 1254)	253	
11096-82-5	PCB-1260 (Aroclor 1260)	274	
1336-36-3	PCB, Total	756	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718025.D
Lab Smp Id: 40148598005 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 16:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40148598005 x2,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 25
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	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	10.016	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.019	15175	12896	0.850	0.01		
1.153	10151	12408	1.222	0.01		
1.181	25963	22549	0.868	0.03		
1.216	89615	82057	0.916	0.10		
1.461	11023	9388	0.852	0.01		
1.729	11731	12280	1.047	0.01		
1.822	84692	83623	0.987	0.10		
2.006	17332	13559	0.782	0.02		
2.119	11765	11563	0.983	0.01		
2.183	14535	9292	0.639	0.01		
2.230	12915	14032	1.087	0.01		
2.359	14130	15372	1.088	0.01		
2.379	20146	19917	0.989	0.02		
2.424	35090	36059	1.028	0.04		
2.476	74787	76170	1.018	0.09		
2.551	5276826	5470933	1.037	6.45	$ 2 Tetrachloro-m-xylene	
2.859	18910	14396	0.761	0.02		
2.927	40290	26030	0.646	0.04		
3.048	79436	48979	0.617	0.09		
3.094	84012	87907	1.046	0.10		
3.132	40323	26080	0.647	0.04		
3.397	108758	110103	1.012	0.13		
3.425	123299	119121	0.966	0.15		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.514	62977	56010	0.889	0.07	
3.601	143105	122996	0.859	0.17	
3.816	104630	99215	0.948	0.12	
3.838	61231	52107	0.851	0.07	
3.909	661114	379403	0.574	0.80	
4.023	143477	108491	0.756	0.17	
4.079	107510	95983	0.893	0.13	
4.143	109527	70001	0.639	0.13	
4.222	32047	26797	0.836	0.03	
4.300	828419	784812	0.947	1.01	
4.347	957076	914139	0.955	1.17	6 Aroclor 1248
4.378	837877	668975	0.798	1.02	
4.435	87101	73616	0.845	0.10	
4.504	458749	428377	0.934	0.56	
4.540	311579	288247	0.925	0.38	
4.602	57114	59744	1.046	0.06	
4.632	710750	671767	0.945	0.86	6 Aroclor 1248
4.675	55848	50201	0.899	0.06	
4.706	126266	105356	0.834	0.15	
4.746	26124	28151	1.078	0.03	
4.768	86347	75732	0.877	0.10	
4.827	174717	145038	0.830	0.21	
4.855	87236	83278	0.955	0.10	
4.900	414480	399366	0.964	0.50	6 Aroclor 1248
4.936	593874	570180	0.960	0.72	
4.981	1740886	909848	0.523	2.12	6 Aroclor 1248
5.045	476310	382839	0.804	0.58	
5.093	109438	105314	0.962	0.13	
5.126	388068	369291	0.952	0.47	6 Aroclor 1248
5.146	180779	188401	1.042	0.22	
5.188	1202667	993652	0.826	1.47	
5.250	2085890	1802273	0.864	2.55	7 Aroclor 1254
5.301	2613351	2150458	0.823	3.19	
5.343	181595	177117	0.975	0.22	
5.371	300284	266077	0.886	0.36	
5.404	1208124	1125964	0.932	1.47	
5.451	635034	596630	0.940	0.77	
5.496	770116	719534	0.934	0.94	7 Aroclor 1254
5.540	5686031	5521127	0.971	6.95	
5.571	170062	241946	1.423	0.20	
5.598	2210666	1803586	0.816	2.70	7 Aroclor 1254
5.644	42100	50581	1.201	0.05	
5.664	297724	261370	0.878	0.36	
5.693	274377	196918	0.718	0.33	
5.763	886011	829979	0.937	1.08	
5.799	408930	329532	0.806	0.50	
5.830	794777	555889	0.699	0.97	
5.878	3993040	3280119	0.821	4.88	
5.911	935841	866819	0.926	1.14	
5.992	812290	590841	0.727	0.99	
6.020	218246	201051	0.921	0.26	
6.053	72737	74787	1.028	0.08	
6.081	1464716	1348742	0.921	1.79	
6.116	1217957	1093932	0.898	1.48	7 Aroclor 1254
6.144	5544722	4898382	0.883	6.78	
6.258	513872	379693	0.739	0.62	
6.276	374277	357596	0.955	0.45	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.332	707515	422655	0.597	0.86	
6.388	5212022	4327266	0.830	6.37	8 Aroclor 1260
6.422	477686	432617	0.906	0.58	
6.462	115495	97047	0.840	0.14	
6.521	647391	437964	0.677	0.79	
6.572	114711	98729	0.861	0.14	
6.598	2347420	2140817	0.912	2.87	
6.626	1013400	949971	0.937	1.23	
6.649	882363	827052	0.937	1.07	
6.693	230223	191334	0.831	0.28	
6.722	44876	40485	0.902	0.05	
6.749	74516	69196	0.929	0.09	
6.807	400398	367604	0.918	0.48	
6.848	778648	685945	0.881	0.95	
6.891	715113	642505	0.898	0.87	
6.929	430730	385749	0.896	0.52	
6.976	55266	51558	0.933	0.06	
7.001	147256	146638	0.996	0.18	
7.032	963288	913856	0.949	1.17	
7.093	2328594	2146909	0.922	2.84	8 Aroclor 1260
7.125	267187	176466	0.660	0.32	
7.189	10439	12246	1.173	0.01	
7.209	30901	30668	0.992	0.03	
7.340	934497	852464	0.912	1.14	8 Aroclor 1260
7.368	279857	231307	0.827	0.34	
7.428	36542	24329	0.666	0.04	
7.478	855155	744058	0.870	1.04	
7.531	864123	741404	0.858	1.05	8 Aroclor 1260
7.583	153284	105785	0.690	0.18	
7.619	44826	40800	0.910	0.05	
7.642	82874	48417	0.584	0.10	
7.711	58132	30909	0.532	0.07	
7.748	15874	18902	1.191	0.01	
7.780	195236	181984	0.932	0.23	
7.816	336656	291301	0.865	0.41	
7.851	65494	54653	0.834	0.08	
7.901	283548	169097	0.596	0.34	
7.952	32411	24682	0.762	0.03	
7.989	664809	593571	0.893	0.81	8 Aroclor 1260
8.047	104605	64529	0.617	0.12	
8.144	17403	14519	0.834	0.02	
8.195	15473	13725	0.887	0.01	
8.284	18132	16636	0.918	0.02	
8.363	682124	634739	0.931	0.83	
8.467	53165	37598	0.707	0.06	
8.539	12551	11248	0.896	0.01	
8.660	6357466	5431740	0.854	8.46	$ 12 Decachlorobiphenyl
8.792	37811	29136	0.771	0.04	
8.816	63510	55111	0.868	0.07	
9.000	19194	12083	0.630	0.02	
9.080	12473	10392	0.833	0.01	
9.256	59339	51143	0.862	0.07	
9.372	18569	12379	0.667	0.02	
9.420	24252	15810	0.652	0.02	
9.531	12332	11430	0.927	0.01	
9.629	9590	9203	0.960	0.01	
9.788	32218	25297	0.785	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.825	20752	15001	0.723	0.02	
9.946	12735	9489	0.745	0.01	
	81753442	71593132		100.000	

Total unknown % area = 60

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718025.D
Lab Smp Id: 40148598005 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 16:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 40148598005 x2,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 25
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	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	10.016	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

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

1 Aroclor 1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

2.550	2.550	0.000	5276825	0.04456		44		

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3 Aroclor 1242 CAS #: 53469-21-9

Operator disabled compound identification.

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4 Aroclor 1232 CAS #: 1114-16-5

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			
4.346	4.347	-0.001	957076	0.38544	380	0.00- 20.00	100.00(M)	BA
4.632	4.632	0.000	710750	0.15951	160	0.00- 20.00	74.26	BA
4.899	4.900	-0.001	414480	0.19263	190	0.00- 20.00	43.31	BA
4.980	4.967	0.013	1740886	0.30867	310	0.00- 20.00	181.90	BA
5.126	5.127	-0.001	388067	0.09845	98	0.00- 20.00	40.55	BA
		Average of Peak Concentrations =			230			
7 Aroclor 1254					CAS #: 11097-69-1			
5.249	5.249	0.000	2085890	0.36689	370	0.00- 20.00	100.00(M)	BA
5.495	5.496	-0.001	770115	0.16375	160	0.00- 20.00	36.92	BA
5.597	5.598	-0.001	2210665	0.25650	260	0.00- 20.00	105.98	BA
6.115	6.117	-0.002	1217956	0.22679	230	0.00- 20.00	58.39	BA
6.388	6.388	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
		Average of Peak Concentrations =			250			
8 Aroclor 1260					CAS #: 11096-82-5			
6.388	6.388	0.000	5212021	0.53202	530	0.00- 20.00	100.00(M)	BA
7.092	7.092	0.000	2328594	0.20268	200	0.00- 20.00	44.68	BA
7.340	7.340	0.000	934496	0.16865	170	0.00- 20.00	17.93	BA
7.530	7.531	-0.001	864122	0.25628	260	0.00- 20.00	16.58	BA
7.988	7.988	0.000	664808	0.21446	210	0.00- 20.00	12.76	BA
		Average of Peak Concentrations =			270			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.660	8.660	0.000	6357465	0.04932	49			

QC Flag Legend

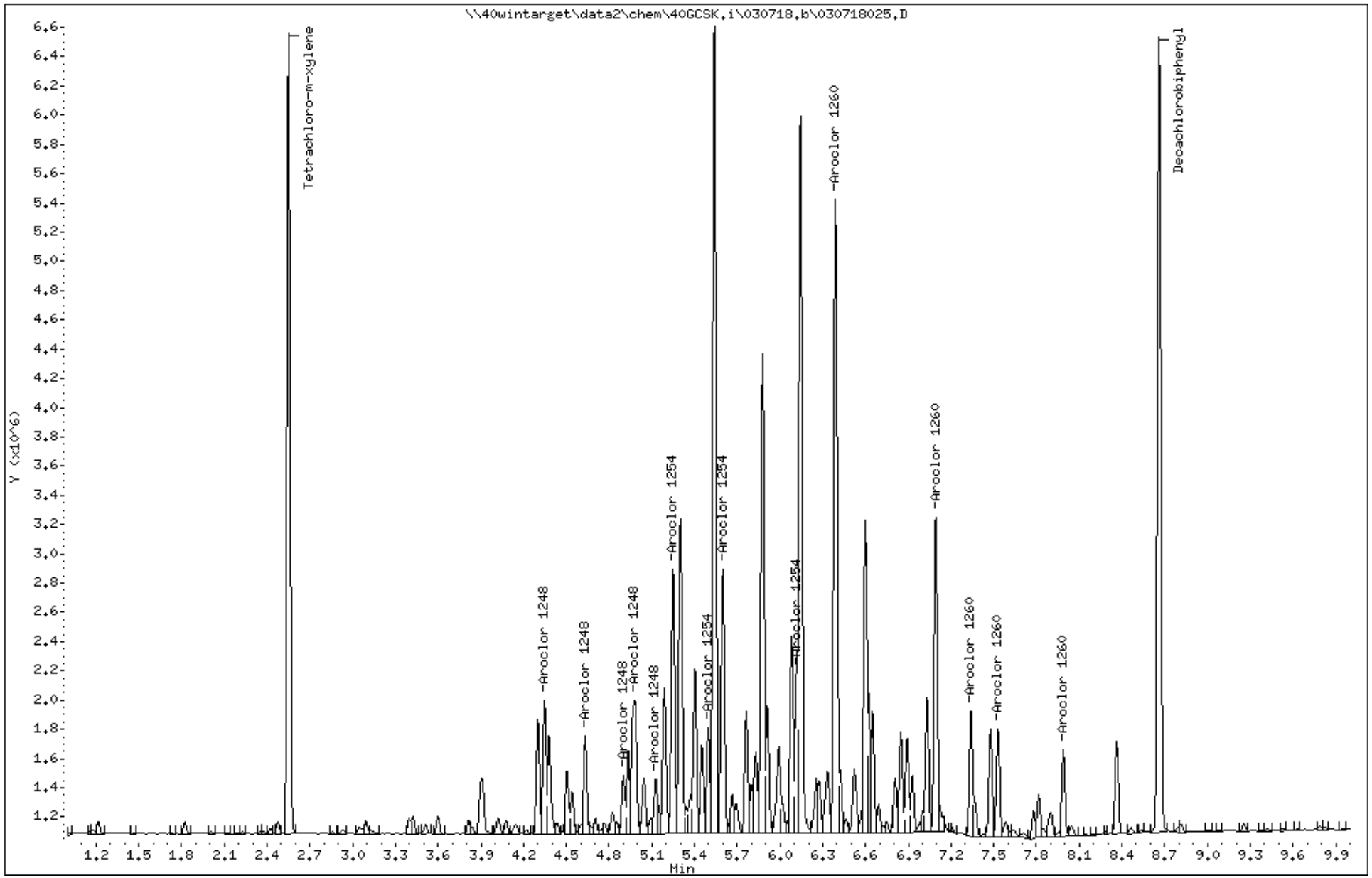
M - Compound response manually integrated.

Review Codes Legend

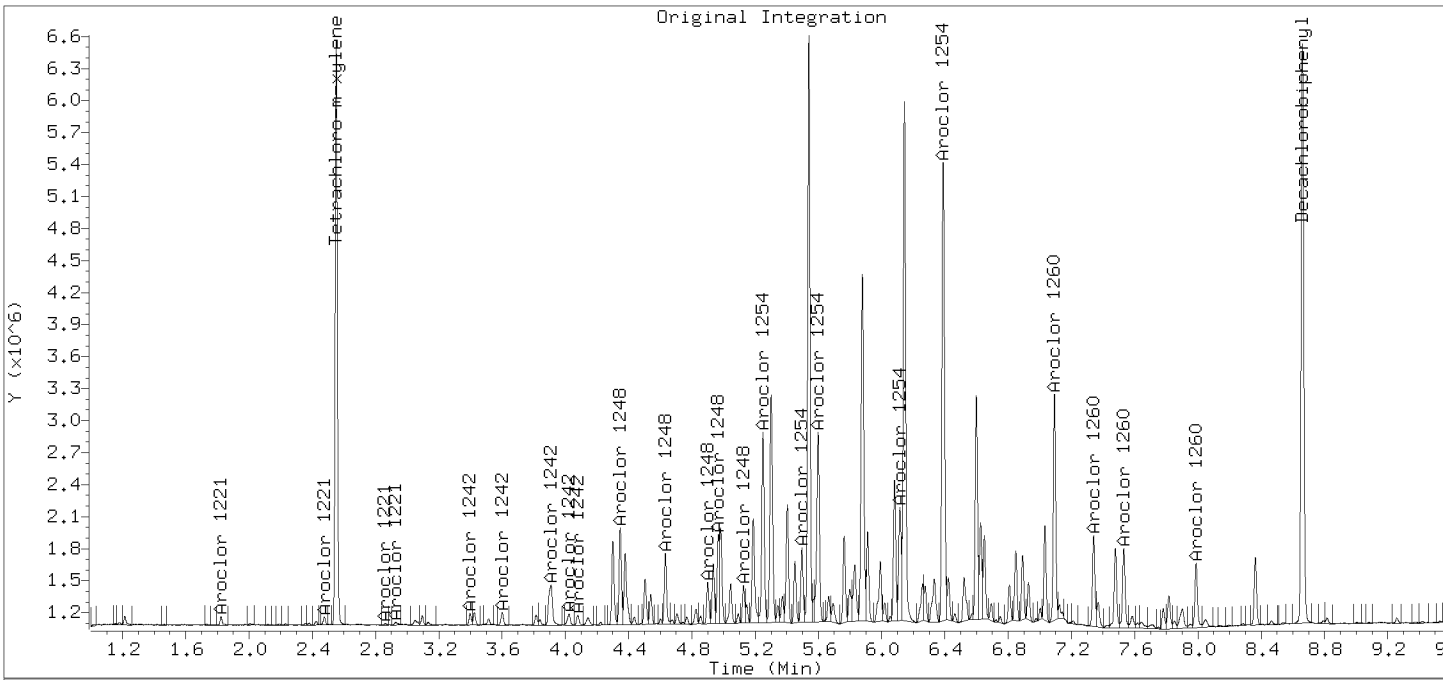
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

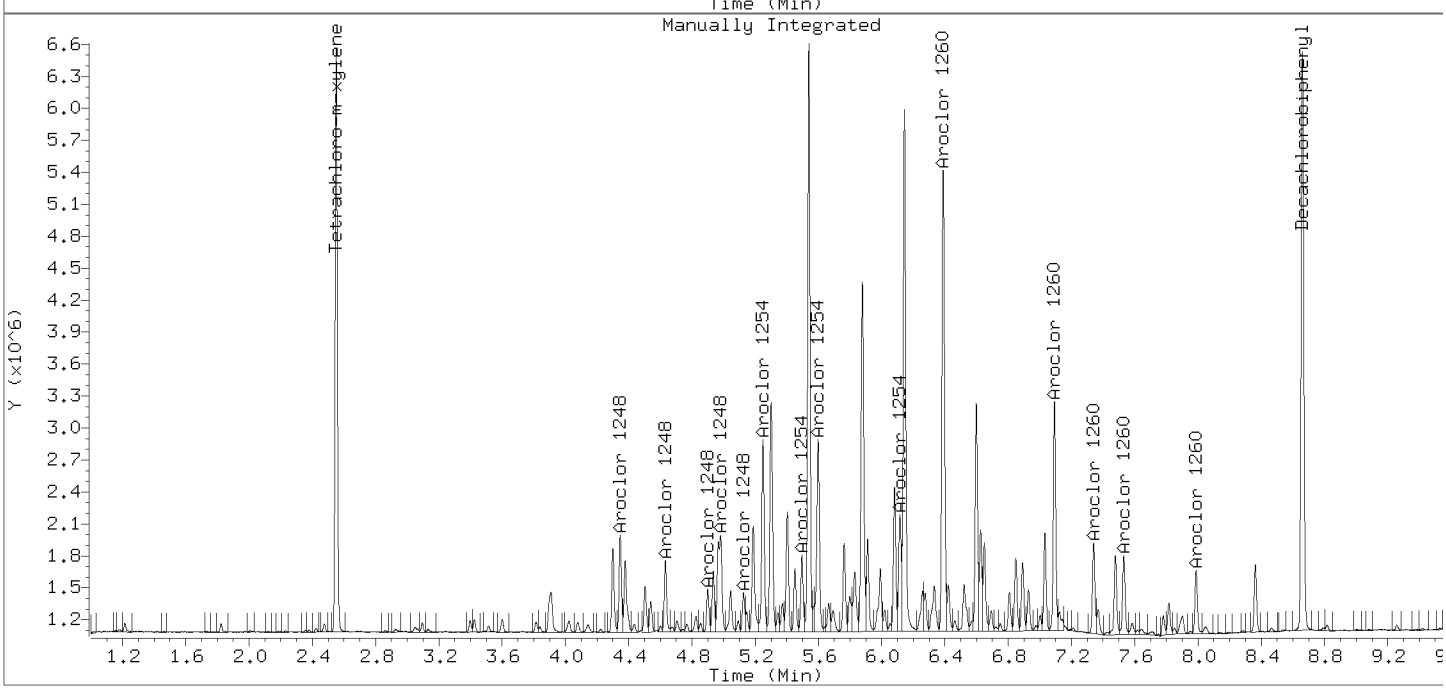
Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b\030718025.D
Date : 07-MAR-2018 16:23
Client ID: TZ1-170418-01-STB-0
Sample Info: 40148598005 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b/030718025.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 16:23 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 40148598005





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	108758	0	
Aroclor 1016	108758	0	
Aroclor 1016	108758	0	
Aroclor 1016	108758	0	
Aroclor 1016	108758	0	
Aroclor 1221	84691	0	
Aroclor 1221	84691	0	
Aroclor 1221	84691	0	
Aroclor 1221	84691	0	
Aroclor 1221	84691	0	
Aroclor 1232	40290	0	
Aroclor 1232	40290	0	
Aroclor 1232	40290	0	
Aroclor 1232	40290	0	

Aroclor 1232	40290	0	
Aroclor 1242	108758	0	
Aroclor 1242	108758	0	
Aroclor 1242	108758	0	
Aroclor 1242	108758	0	
Aroclor 1242	108758	0	
Aroclor 1248	948196	957076	BA
Aroclor 1248	948196	957076	BA
Aroclor 1248	948196	957076	BA
Aroclor 1248	948196	957076	BA
Aroclor 1248	948196	957076	BA
Aroclor 1254	2018777	2085890	BA
Aroclor 1254	2018777	2085890	BA
Aroclor 1254	2018777	2085890	BA
Aroclor 1254	2018777	2085890	BA
Aroclor 1254	2018777	2085890	BA
Aroclor 1260	5120529	5212021	BA
Aroclor 1260	5120529	5212021	BA
Aroclor 1260	5120529	5212021	BA
Aroclor 1260	5120529	5212021	BA
Aroclor 1260	5120529	5212021	BA
Tetrachloro-m-xylene	5276825	5276825	
Decachlorobiphenyl	6357465	6357465	

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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 2 SDG No.: 40148598

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 11:50 19:23

LAB FILE ID

CAL1A =	030618.B\030618055.D	CAL1B =	030618.B\030618019.D	CAL1C =	030618.B\030618043.D
CAL1D =	030618.B\030618031.D	CAL1F =	030618.B\030618007.D	CAL2A =	030618.B\030618057.D
CAL2B =	030618.B\030618021.D	CAL2C =	030618.B\030618045.D	CAL2D =	030618.B\030618033.D
CAL2F =	030618.B\030618009.D	CAL3A =	030618.B\030618059.D	CAL3B =	030618.B\030618023.D
CAL3C =	030618.B\030618047.D	CAL3D =	030618.B\030618035.D	CAL3F =	030618.B\030618011.D
CAL4A =	030618.B\030618061.D	CAL4B =	030618.B\030618025.D	CAL4C =	030618.B\030618049.D
CAL4D =	030618.B\030618037.D	CAL4F =	030618.B\030618013.D	CAL5A =	030618.B\030618063.D
CAL5B =	030618.B\030618027.D	CAL5C =	030618.B\030618051.D	CAL5D =	030618.B\030618039.D
CAL5F =	030618.B\030618015.D				

COMPOUND	PEAK	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5
Aroclor 1016	1	Averaged	3274960.00	3269125.00	2967228.00	2876502.50	2833165.00
Aroclor 1016	2	Averaged	3332330.00	3269300.00	3041946.00	2965638.75	2917635.00
Aroclor 1016	3	Averaged	10034310.0	9782660.00	9019746.00	8890233.75	8852360.00
Aroclor 1016	4	Averaged	4266510.00	4178970.00	3846018.00	3738796.25	3709517.00
Aroclor 1016	5	Averaged	2849090.00	2749005.00	2570538.00	2549456.25	2519627.00
Aroclor 1221	1	Averaged	1110420.00	1103425.00	945020.000	910096.250	903333.000
Aroclor 1221	2	Averaged	628250.000	597435.000	497196.000	475523.750	476187.000
Aroclor 1221	3	Averaged	1569240.00	1512205.00	1331512.00	1308573.75	1318154.00
Aroclor 1221	4	Averaged	1215040.00	1160490.00	1042040.00	1042850.00	1086008.00
Aroclor 1221	5	Averaged	3715370.00	3661410.00	3215342.00	3095605.00	3118782.00
Aroclor 1242	1	Averaged	2772040.00	2679645.00	2557954.00	2351651.25	2317496.00
Aroclor 1242	2	Averaged	2806130.00	2680745.00	2580668.00	2393405.00	2378643.00
Aroclor 1242	3	Averaged	8271950.00	8044450.00	7576140.00	7104127.50	7113608.00
Aroclor 1242	4	Averaged	3466350.00	3409535.00	3231120.00	3013197.50	3001772.00
Aroclor 1242	5	Averaged	2413760.00	2226755.00	2158228.00	2024763.75	2026605.00
Aroclor 1248	1	Averaged	2682600.00	2616675.00	2492950.00	2322222.50	2301058.00
Aroclor 1248	2	Averaged	4852200.00	4733360.00	4356412.00	4215287.50	4121810.00
Aroclor 1248	3	Averaged	2221540.00	2207835.00	2183646.00	2072852.50	2072505.00
Aroclor 1248	4	Averaged	6082770.00	5910720.00	5645056.00	5290598.75	5270595.00
Aroclor 1248	5	Averaged	4085740.00	4082825.00	3960156.00	3781821.25	3798047.00
Aroclor 1254	1	Averaged	6289850.00	6108865.00	5620860.00	5224048.75	5183400.00
Aroclor 1254	2	Averaged	5008700.00	4969335.00	4691654.00	4432146.25	4413390.00
Aroclor 1254	3	Averaged	9464310.00	9078570.00	8491582.00	8088543.75	7970155.00
Aroclor 1254	4	Averaged	5516070.00	5619905.00	5413152.00	5154030.00	5149284.00
Aroclor 1254	5	Averaged	7899580.00	7830800.00	7303862.00	6896545.00	6825769.00
Aroclor 1260	1	Averaged	10586190.0	10245735.0	9520516.00	9316422.50	9314568.00
Aroclor 1260	2	Averaged	12483220.0	11815745.0	11226176.0	10958355.0	10961506.0
Aroclor 1260	3	Averaged	5800280.00	5722275.00	5488182.00	5335001.25	5359146.00
Aroclor 1260	4	Averaged	3583250.00	3572920.00	3347800.00	3174366.25	3180579.00

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 2 SDG No.: 40148598

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 11:50 19:23

LAB FILE ID

CAL1A =	030618.B\030618055.D	CAL1B =	030618.B\030618019.D	CAL1C =	030618.B\030618043.D
CAL1D =	030618.B\030618031.D	CAL1F =	030618.B\030618007.D	CAL2A =	030618.B\030618057.D
CAL2B =	030618.B\030618021.D	CAL2C =	030618.B\030618045.D	CAL2D =	030618.B\030618033.D
CAL2F =	030618.B\030618009.D	CAL3A =	030618.B\030618059.D	CAL3B =	030618.B\030618023.D
CAL3C =	030618.B\030618047.D	CAL3D =	030618.B\030618035.D	CAL3F =	030618.B\030618011.D
CAL4A =	030618.B\030618061.D	CAL4B =	030618.B\030618025.D	CAL4C =	030618.B\030618049.D
CAL4D =	030618.B\030618037.D	CAL4F =	030618.B\030618013.D	CAL5A =	030618.B\030618063.D
CAL5B =	030618.B\030618027.D	CAL5C =	030618.B\030618051.D	CAL5D =	030618.B\030618039.D
CAL5F =	030618.B\030618015.D				

COMPOUND	PEAK	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5
Aroclor 1260	5	Averaged	3282580.00	3215065.00	3088340.00	2957420.00	2956178.00
Decachlorobiphenyl (S)		Averaged	145696800.	133321250.	127203300.	119834370.	118476320.
Tetrachloro-m-xylene		Averaged	123159700.	120374450.	114832240.	116479950.	117270820.

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 2 SDG No.: 40148598

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 11:50 19:23

LAB FILE ID

CAL1A =	030618.B\030618055.D	CAL1B =	030618.B\030618019.D	CAL1C =	030618.B\030618043.D
CAL1D =	030618.B\030618031.D	CAL1F =	030618.B\030618007.D	CAL2A =	030618.B\030618057.D
CAL2B =	030618.B\030618021.D	CAL2C =	030618.B\030618045.D	CAL2D =	030618.B\030618033.D
CAL2F =	030618.B\030618009.D	CAL3A =	030618.B\030618059.D	CAL3B =	030618.B\030618023.D
CAL3C =	030618.B\030618047.D	CAL3D =	030618.B\030618035.D	CAL3F =	030618.B\030618011.D
CAL4A =	030618.B\030618061.D	CAL4B =	030618.B\030618025.D	CAL4C =	030618.B\030618049.D
CAL4D =	030618.B\030618037.D	CAL4F =	030618.B\030618013.D	CAL5A =	030618.B\030618063.D
CAL5B =	030618.B\030618027.D	CAL5C =	030618.B\030618051.D	CAL5D =	030618.B\030618039.D
CAL5F =	030618.B\030618015.D				

COMPOUND	PEAK	CURVE TYPE	%RSD	R2	A1	A2	A3
Aroclor 1016	1	Averaged	7.01			3044196.10	
Aroclor 1016	2	Averaged	5.96			3105369.95	
Aroclor 1016	3	Averaged	5.92			9315861.95	
Aroclor 1016	4	Averaged	6.52			3947962.25	
Aroclor 1016	5	Averaged	5.43			2647543.25	
Aroclor 1221	1	Averaged	10.44			994458.85	
Aroclor 1221	2	Averaged	13.55			534918.35	
Aroclor 1221	3	Averaged	8.74			1407936.95	
Aroclor 1221	4	Averaged	6.87			1109285.60	
Aroclor 1221	5	Averaged	9.00			3361301.80	
Aroclor 1242	1	Averaged	7.85			2535757.25	
Aroclor 1242	2	Averaged	7.17			2567918.20	
Aroclor 1242	3	Averaged	6.97			7622055.10	
Aroclor 1242	4	Averaged	6.70			3224394.90	
Aroclor 1242	5	Averaged	7.44			2170022.35	
Aroclor 1248	1	Averaged	6.88			2483101.10	
Aroclor 1248	2	Averaged	7.21			4455813.90	
Aroclor 1248	3	Averaged	3.41			2151675.70	
Aroclor 1248	4	Averaged	6.44			5639947.95	
Aroclor 1248	5	Averaged	3.74			3941717.85	
Aroclor 1254	1	Averaged	8.85			5685404.75	
Aroclor 1254	2	Averaged	6.03			4703045.05	
Aroclor 1254	3	Averaged	7.43			8618632.15	
Aroclor 1254	4	Averaged	3.96			5370488.20	
Aroclor 1254	5	Averaged	6.85			7351311.20	
Aroclor 1260	1	Averaged	5.96			9796686.30	
Aroclor 1260	2	Averaged	5.71			11489000.40	
Aroclor 1260	3	Averaged	3.81			5540976.85	
Aroclor 1260	4	Averaged	5.95			3371783.05	

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 2 SDG No.: 40148598

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 11:50 19:23

LAB FILE ID

CAL1A =	030618.B\030618055.D	CAL1B =	030618.B\030618019.D	CAL1C =	030618.B\030618043.D
CAL1D =	030618.B\030618031.D	CAL1F =	030618.B\030618007.D	CAL2A =	030618.B\030618057.D
CAL2B =	030618.B\030618021.D	CAL2C =	030618.B\030618045.D	CAL2D =	030618.B\030618033.D
CAL2F =	030618.B\030618009.D	CAL3A =	030618.B\030618059.D	CAL3B =	030618.B\030618023.D
CAL3C =	030618.B\030618047.D	CAL3D =	030618.B\030618035.D	CAL3F =	030618.B\030618011.D
CAL4A =	030618.B\030618061.D	CAL4B =	030618.B\030618025.D	CAL4C =	030618.B\030618049.D
CAL4D =	030618.B\030618037.D	CAL4F =	030618.B\030618013.D	CAL5A =	030618.B\030618063.D
CAL5B =	030618.B\030618027.D	CAL5C =	030618.B\030618051.D	CAL5D =	030618.B\030618039.D
CAL5F =	030618.B\030618015.D				

COMPOUND	PEAK	CURVE TYPE	%RSD	R2	A1	A2	A3
Aroclor 1260	5	Averaged	4.77			3099916.60	
Decachlorobiphenyl (S)		Averaged	8.63			128906408.0	
Tetrachloro-m-xylene		Averaged	2.80			118423432.0	

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

PCB - FORM VI SVOA-1

PCB INITIAL CALIBRATION RETENTION TIME (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSK GC Column: Col 2 SDG No.: 40148598

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 11:50 19:23

LAB FILE ID

CAL1A =	030618.B\030618055.D	CAL1B =	030618.B\030618019.D	CAL1C =	030618.B\030618043.D
CAL1D =	030618.B\030618031.D	CAL1F =	030618.B\030618007.D	CAL2A =	030618.B\030618057.D
CAL2B =	030618.B\030618021.D	CAL2C =	030618.B\030618045.D	CAL2D =	030618.B\030618033.D
CAL2F =	030618.B\030618009.D	CAL3A =	030618.B\030618059.D	CAL3B =	030618.B\030618023.D
CAL3C =	030618.B\030618047.D	CAL3D =	030618.B\030618035.D	CAL3F =	030618.B\030618011.D
CAL4A =	030618.B\030618061.D	CAL4B =	030618.B\030618025.D	CAL4C =	030618.B\030618049.D
CAL4D =	030618.B\030618037.D	CAL4F =	030618.B\030618013.D	CAL5A =	030618.B\030618063.D
CAL5B =	030618.B\030618027.D	CAL5C =	030618.B\030618051.D	CAL5D =	030618.B\030618039.D
CAL5F =	030618.B\030618015.D				

COMPOUND	PEAK	CAL1	CAL2	CAL3	CAL4	CAL5	RT	RT WINDOW	
								FROM	TO
Aroclor 1016	1	3.398	3.397	3.396	3.397	3.397	3.397	3.363	3.431
Aroclor 1016	2	3.594	3.596	3.595	3.595	3.594	3.595	3.561	3.629
Aroclor 1016	3	3.91	3.91	3.91	3.91	3.91	3.91	3.876	3.944
Aroclor 1016	4	4.014	4.014	4.013	4.013	4.013	4.013	3.979	4.047
Aroclor 1016	5	4.079	4.079	4.079	4.079	4.079	4.079	4.045	4.113
Aroclor 1221	1	1.854	1.854	1.854	1.854	1.854	1.853	1.819	1.887
Aroclor 1221	2	2.471	2.472	2.474	2.473	2.473	2.472	2.438	2.506
Aroclor 1221	3	2.759	2.76	2.76	2.759	2.759	2.76	2.726	2.794
Aroclor 1221	4	2.862	2.862	2.862	2.861	2.862	2.862	2.828	2.896
Aroclor 1221	5	2.925	2.925	2.925	2.925	2.925	2.926	2.892	2.96
Aroclor 1242	1	3.397	3.397	3.397	3.397	3.398	3.398	3.364	3.432
Aroclor 1242	2	3.596	3.596	3.595	3.595	3.596	3.596	3.562	3.63
Aroclor 1242	3	3.91	3.911	3.91	3.91	3.911	3.91	3.876	3.944
Aroclor 1242	4	4.013	4.014	4.014	4.014	4.013	4.013	3.979	4.047
Aroclor 1242	5	4.079	4.08	4.08	4.079	4.079	4.08	4.046	4.114
Aroclor 1248	1	4.347	4.345	4.346	4.346	4.346	4.347	4.313	4.381
Aroclor 1248	2	4.633	4.633	4.632	4.632	4.632	4.632	4.598	4.666
Aroclor 1248	3	4.901	4.9	4.9	4.9	4.9	4.9	4.866	4.934
Aroclor 1248	4	4.966	4.967	4.966	4.966	4.966	4.967	4.933	5.001
Aroclor 1248	5	5.127	5.126	5.126	5.126	5.125	5.127	5.093	5.161
Aroclor 1254	1	5.25	5.25	5.249	5.249	5.249	5.249	5.215	5.283
Aroclor 1254	2	5.496	5.495	5.495	5.495	5.494	5.496	5.462	5.53
Aroclor 1254	3	5.598	5.598	5.598	5.598	5.597	5.598	5.564	5.632
Aroclor 1254	4	6.117	6.116	6.115	6.115	6.115	6.117	6.083	6.151
Aroclor 1254	5	6.388	6.388	6.387	6.388	6.387	6.388	6.354	6.422
Aroclor 1260	1	6.388	6.389	6.389	6.389	6.387	6.388	6.354	6.422
Aroclor 1260	2	7.093	7.093	7.092	7.093	7.092	7.092	7.058	7.126
Aroclor 1260	3	7.341	7.339	7.34	7.34	7.34	7.34	7.306	7.374

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

04/27/2018 9:33

PCB - FORM VI SVOA-2

PCB INITIAL CALIBRATION RETENTION TIME (MULTIPOINT)

Lab Name: Pace Analytical - Green Bay Instrument ID: 40GCSK GC Column: Col 2 SDG No.: 40148598

Calibration Date(s): 03/06/2018 03/06/2018 Calibration Time(s): 11:50 19:23

LAB FILE ID

CAL1A =	030618.B\030618055.D	CAL1B =	030618.B\030618019.D	CAL1C =	030618.B\030618043.D
CAL1D =	030618.B\030618031.D	CAL1F =	030618.B\030618007.D	CAL2A =	030618.B\030618057.D
CAL2B =	030618.B\030618021.D	CAL2C =	030618.B\030618045.D	CAL2D =	030618.B\030618033.D
CAL2F =	030618.B\030618009.D	CAL3A =	030618.B\030618059.D	CAL3B =	030618.B\030618023.D
CAL3C =	030618.B\030618047.D	CAL3D =	030618.B\030618035.D	CAL3F =	030618.B\030618011.D
CAL4A =	030618.B\030618061.D	CAL4B =	030618.B\030618025.D	CAL4C =	030618.B\030618049.D
CAL4D =	030618.B\030618037.D	CAL4F =	030618.B\030618013.D	CAL5A =	030618.B\030618063.D
CAL5B =	030618.B\030618027.D	CAL5C =	030618.B\030618051.D	CAL5D =	030618.B\030618039.D
CAL5F =	030618.B\030618015.D				

COMPOUND	PEAK	CAL1	CAL2	CAL3	CAL4	CAL5	RT	RT WINDOW	
								FROM	TO
Aroclor 1260	4	7.531	7.531	7.531	7.531	7.531	7.531	7.497	7.565
Aroclor 1260	5	7.989	7.989	7.988	7.988	7.988	7.988	7.954	8.022
Decachlorobiphenyl (S)		8.66	8.66	8.659	8.661	8.66	8.66	8.626	8.694
Tetrachloro-m-xylene		2.551	2.551	2.55	2.551	2.551	2.55	2.516	2.584

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 2 SDG No.: 40148598

Calibration Date(s): 03/06/2018 Calibration Time(s): 11:34

LAB FILE ID

CAL3S = 030618.B\030618005.D

COMPOUND	AMOUNT	PEAK	RT	RT WINDOW		RESPONSE FACTOR
				FROM	TO	
Aroclor 1232	.5	1	2.924	2.89	2.958	2730104.00
Aroclor 1232	.5	2	3.595	3.562	3.63	1438576.00
Aroclor 1232	.5	3	3.91	3.876	3.944	4258826.00
Aroclor 1232	.5	4	4.013	3.979	4.047	1806102.00
Aroclor 1232	.5	5	4.08	4.046	4.114	1209090.00

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\030618.b\030618005.D
Lab Smp Id: 1232-CAL3S Client Smp ID: 1232-CAL3S
Inj Date : 06-MAR-2018 11:34
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17499,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:23 Cal File: 030618011.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1232.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.205	25135	23358	0.929	0.08		
1.465	39429	37632	0.954	0.13		
1.577	18926	17811	0.941	0.06		
1.733	18763	20508	1.093	0.06		
1.855	287758	289496	1.006	0.99		
2.063	14062	13150	0.935	0.04		
2.260	86268	79093	0.917	0.29		
2.473	192496	151388	0.786	0.66		
2.551	5891224	6008294	1.020	20.28		
2.760	453960	367159	0.809	1.56		
2.863	419619	400260	0.954	1.44		
2.925	1365053	1221445	0.895	4.70	4 Aroclor 1232	BA
3.005	15293	10316	0.675	0.05		
3.133	88236	78655	0.891	0.30		
3.359	71586	54145	0.756	0.24		
3.398	777027	705707	0.908	2.67		
3.424	449775	414449	0.921	1.54		
3.516	120406	110342	0.916	0.41		
3.596	719289	534100	0.743	2.47	4 Aroclor 1232	BA
3.693	37402	36828	0.985	0.12		
3.778	24888	23455	0.942	0.08		
3.815	186350	184238	0.989	0.64		
3.840	163409	124150	0.760	0.56		
3.911	2129413	1201688	0.564	7.33	4 Aroclor 1232	BA
4.014	903051	729428	0.808	3.10	4 Aroclor 1232	BA
4.080	604546	544449	0.901	2.08	4 Aroclor 1232	BA
4.144	179701	143027	0.796	0.61		
4.222	65500	54086	0.826	0.22		
4.300	425222	411352	0.967	1.46		
4.347	418141	393265	0.941	1.44		
4.379	183245	186089	1.016	0.63		
4.395	230559	205605	0.892	0.79		
4.455	18528	13922	0.751	0.06		
4.504	577313	550931	0.954	1.98		
4.539	491324	356966	0.727	1.69		
4.633	769604	687958	0.894	2.65		
4.707	186179	161554	0.868	0.64		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.813	37470	31975	0.853	0.12	
4.854	40847	38731	0.948	0.14	
4.901	341746	320292	0.937	1.17	
4.936	609561	574582	0.943	2.09	
4.967	800322	579121	0.724	2.75	
5.048	87832	64004	0.729	0.30	
5.126	658469	592240	0.899	2.26	
5.188	132056	96837	0.733	0.45	
5.249	143594	123583	0.861	0.49	
5.300	101924	89997	0.883	0.35	
5.397	26244	21718	0.828	0.09	
5.453	92862	73753	0.794	0.31	
5.497	146638	127001	0.866	0.50	
5.536	94160	80930	0.859	0.32	
5.598	246293	184088	0.747	0.84	
5.693	73147	63685	0.871	0.25	
5.764	18547	16769	0.904	0.06	
5.880	168197	124551	0.741	0.57	
5.975	17124	14763	0.862	0.05	
6.116	126051	109792	0.871	0.43	
6.142	36381	31395	0.863	0.12	
6.389	44870	38609	0.860	0.15	
6.513	12130	9592	0.791	0.04	
6.600	13396	12674	0.946	0.04	
6.810	13388	13387	1.000	0.04	
7.093	26644	23594	0.886	0.09	
7.200	12488	7718	0.618	0.04	
7.339	14705	13584	0.924	0.05	
7.531	12389	9324	0.753	0.04	
8.364	57795	43899	0.760	0.19	
8.661	6146657	5147664	0.837	21.51	
8.999	20115	14695	0.731	0.06	
9.527	14505	11975	0.826	0.04	
	29037225	25252821		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618005.D
Lab Smp Id: 1232-CAL3S Client Smp ID: 1232-CAL3S
Inj Date : 06-MAR-2018 11:34
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-cal3s, 185539:1
Misc Info : 17499,NSAR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:23 Cal File: 030618011.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1232.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
4 Aroclor 1232					CAS #: 1114-16-5			
2.924	2.924	0.000	1365052	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.595	3.596	-0.001	719288	0.50000	0.50	0.00- 20.00	52.69	BA
3.910	3.910	0.000	2129413	0.50000	0.50	0.00- 20.00	156.00	BA
4.013	4.013	0.000	903051	0.50000	0.50	0.00- 20.00	66.16	BA
4.080	4.080	0.000	604545	0.50000	0.50	0.00- 20.00	44.29	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\030618.b\030618005.D

Date : 06-MAR-2018 11:34

Client ID: 1232-CAL3S

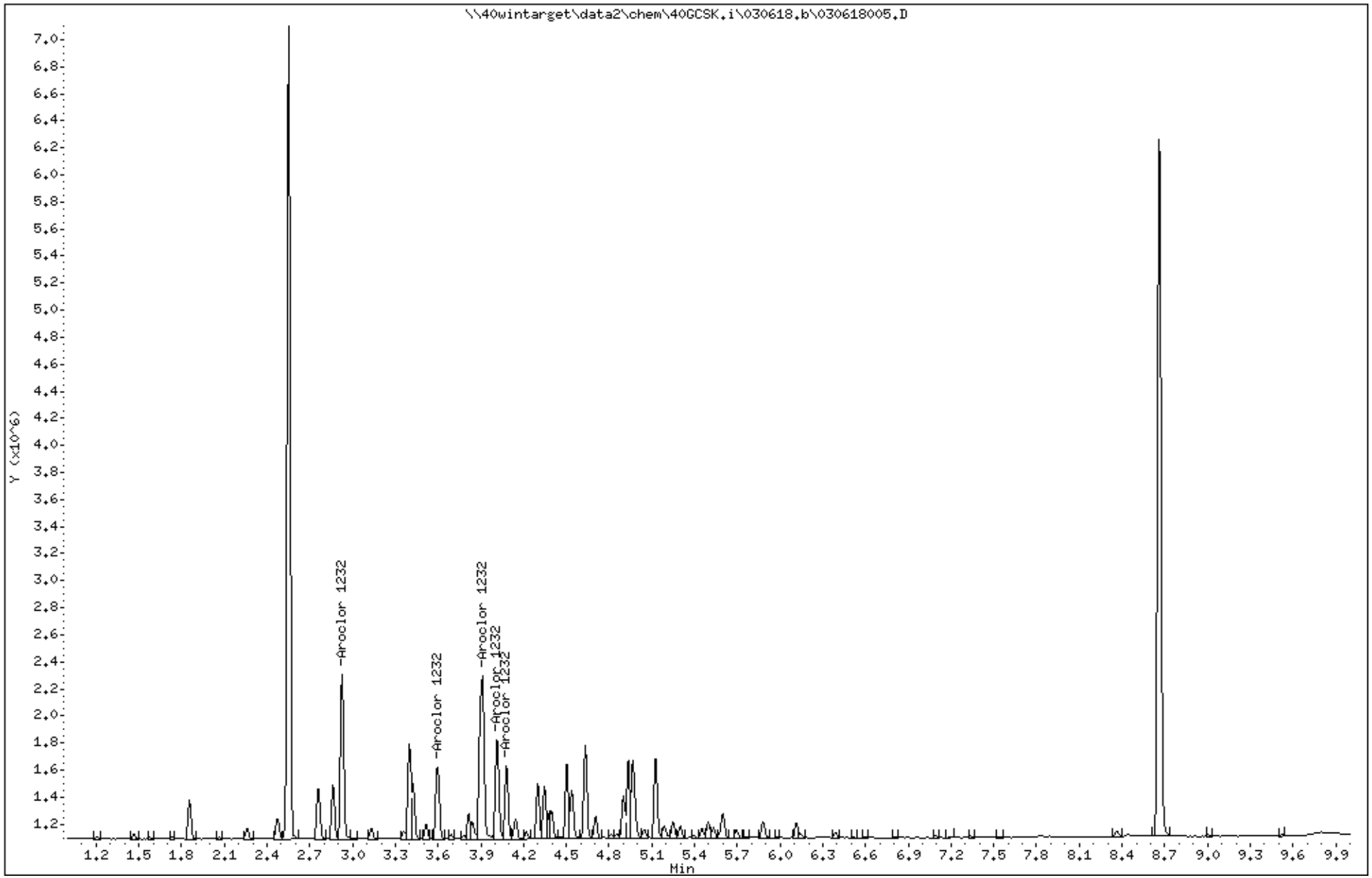
Instrument: 40GCSK.i

Sample Info: 1232-CAL3S, 185539:1

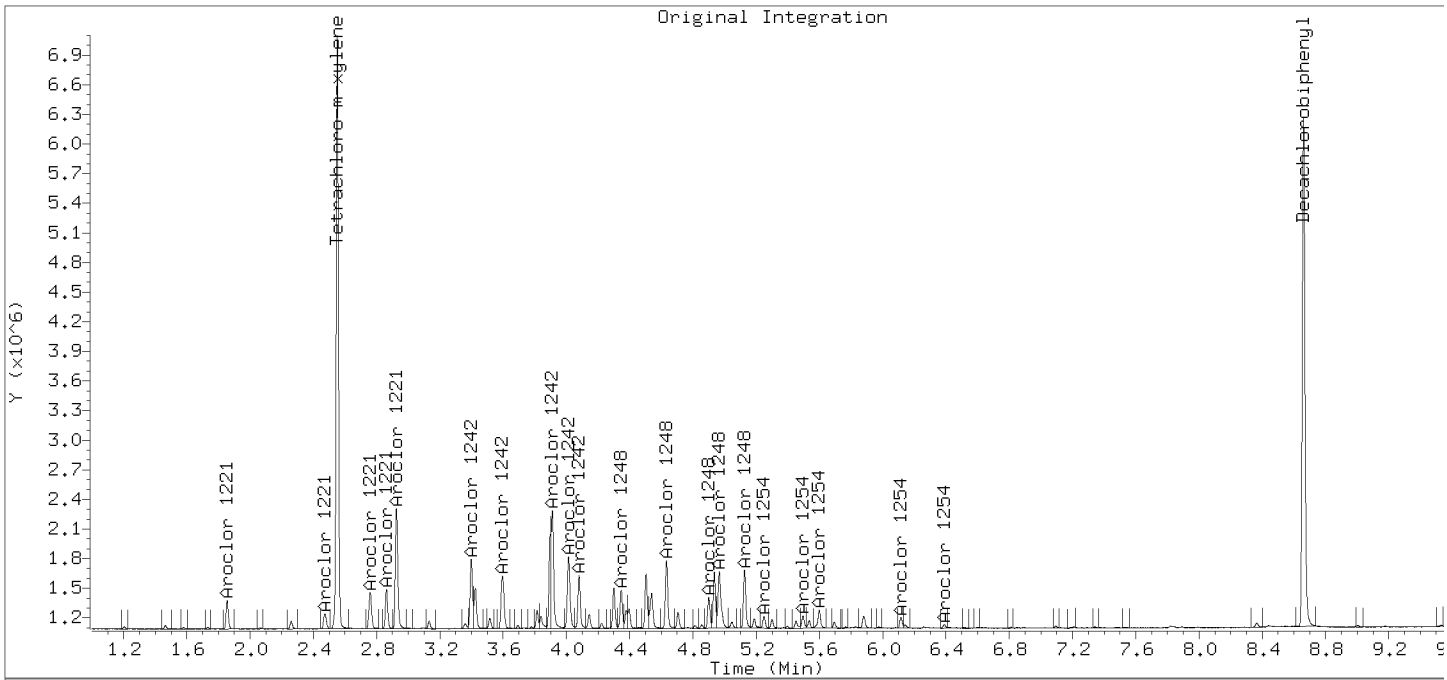
Operator: BLM

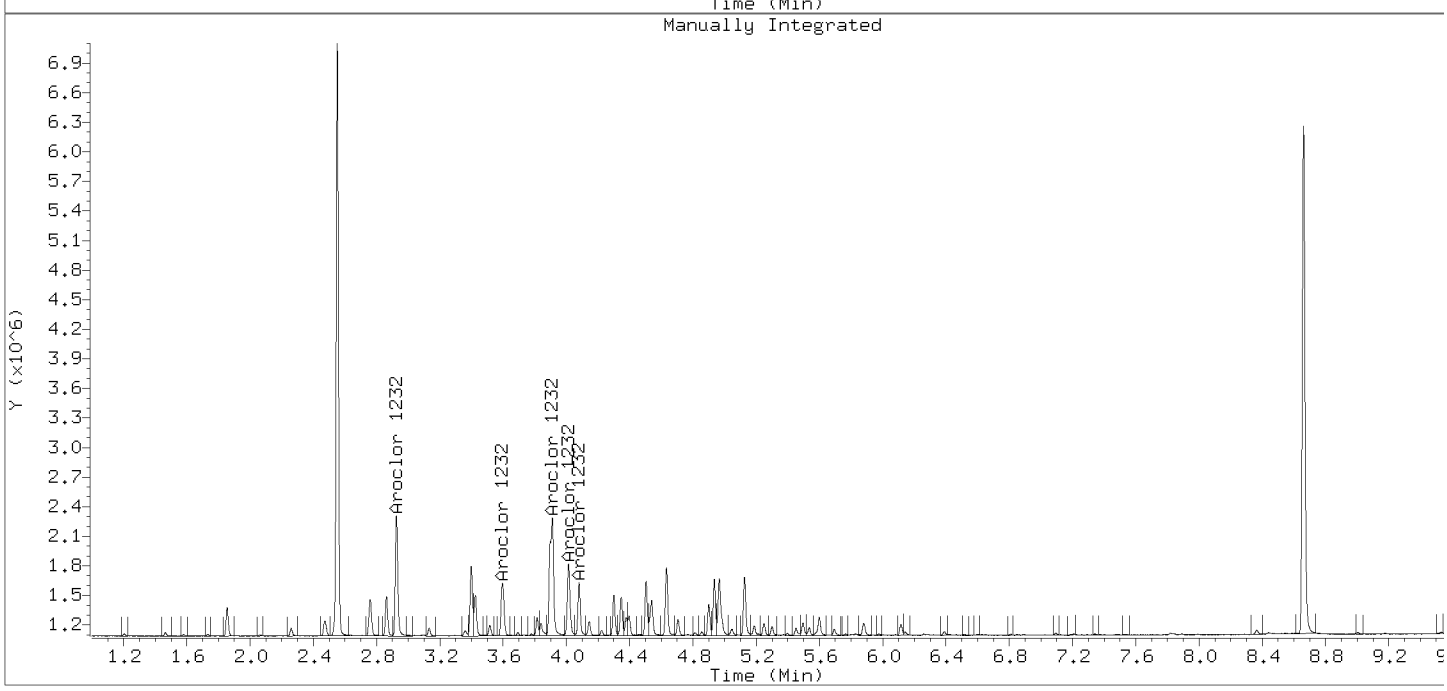
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618005.D (ManInt: NSAR1232.sub Orig: all.sub)
Injection Date: 06-MAR-2018 11:34 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1232-CAL3S





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1357958	1365052	BA
Aroclor 1232	1357958	1365052	BA
Aroclor 1232	1357958	1365052	BA
Aroclor 1232	1357958	1365052	BA
Aroclor 1232	1357958	1365052	BA

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SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618007.D
Lab Smp Id: 1221-CAL1F Client Smp ID: 1221-CAL1F
Inj Date : 06-MAR-2018 11:50
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17499,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:28 Cal File: 030618019.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.463	9680	12281	1.269	0.26		
1.854	111042	106241	0.957	2.98	1 Aroclor 1221	BA
2.263	36897	29963	0.812	0.99		
2.472	62825	44968	0.716	1.69	1 Aroclor 1221	BA
2.552	1184221	1171784	0.989	31.86		
2.760	156925	119080	0.759	4.22	1 Aroclor 1221	BA
2.862	121505	110216	0.907	3.26	1 Aroclor 1221	BA
2.925	371538	312296	0.841	9.99	1 Aroclor 1221	BA
3.358	19420	15478	0.797	0.52		
3.399	19074	18332	0.961	0.51		
3.594	34250	24581	0.718	0.92		
3.688	13191	8671	0.657	0.35		
3.836	12127	9994	0.824	0.32		
3.899	23077	31729	1.375	0.62		
3.912	52618	40381	0.767	1.41		
4.015	36882	29595	0.802	0.99		
4.081	20166	18126	0.899	0.54		
4.633	16730	12578	0.752	0.45		
8.365	17830	11697	0.656	0.47		
8.661	1380595	1129606	0.818	37.24		
9.528	15546	10550	0.679	0.41		
	3716139	3268147		100.000		

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618007.D
Lab Smp Id: 1221-CAL1F Client Smp ID: 1221-CAL1F
Inj Date : 06-MAR-2018 11:50
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal1f, 188138:1
Misc Info : 17499,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:28 Cal File: 030618019.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.854	1.853	0.001	111042	0.10000	0.11	0.00- 20.00	100.00(M)	BA
2.471	2.472	-0.001	62825	0.10000	0.12	0.00- 20.00	56.58	BA
2.759	2.760	-0.001	156924	0.10000	0.11	0.00- 20.00	141.32	BA
2.862	2.862	0.000	121504	0.10000	0.11	0.00- 20.00	109.42	BA
2.925	2.926	-0.001	371537	0.10000	0.11	0.00- 20.00	334.59	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.

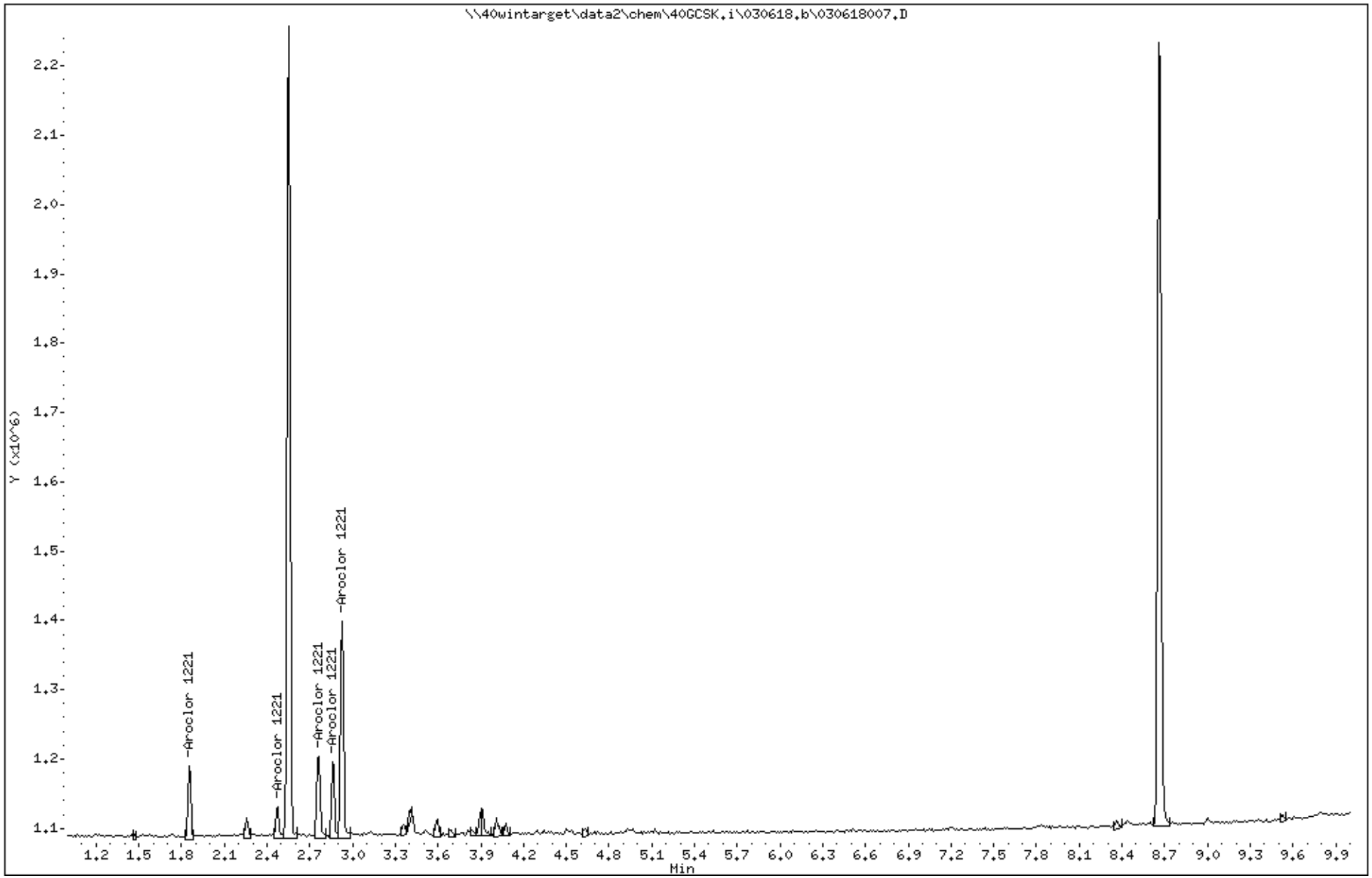
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618007.D
Date : 06-MAR-2018 11:50
Client ID: 1221-CAL1F
Sample Info: 1221-CAL1F, 188138:1

Instrument: 40GCSK.i

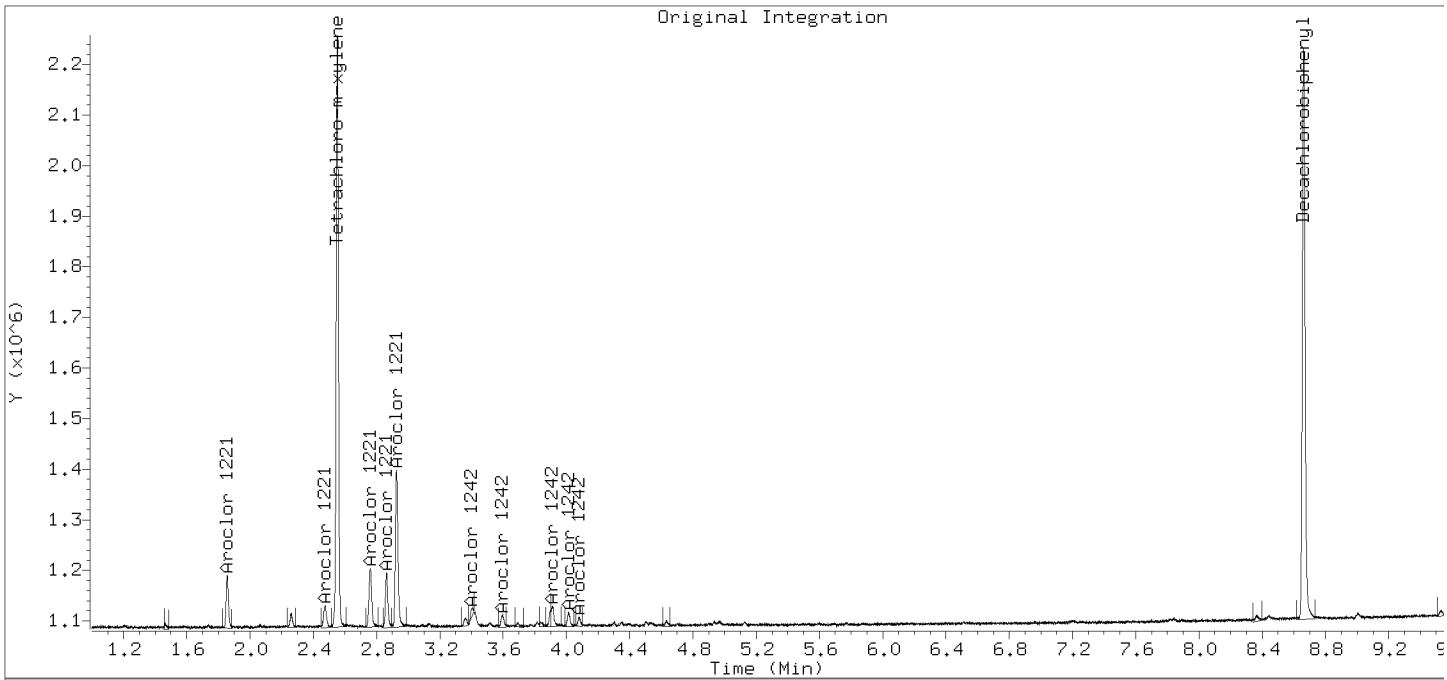
Operator: BLM

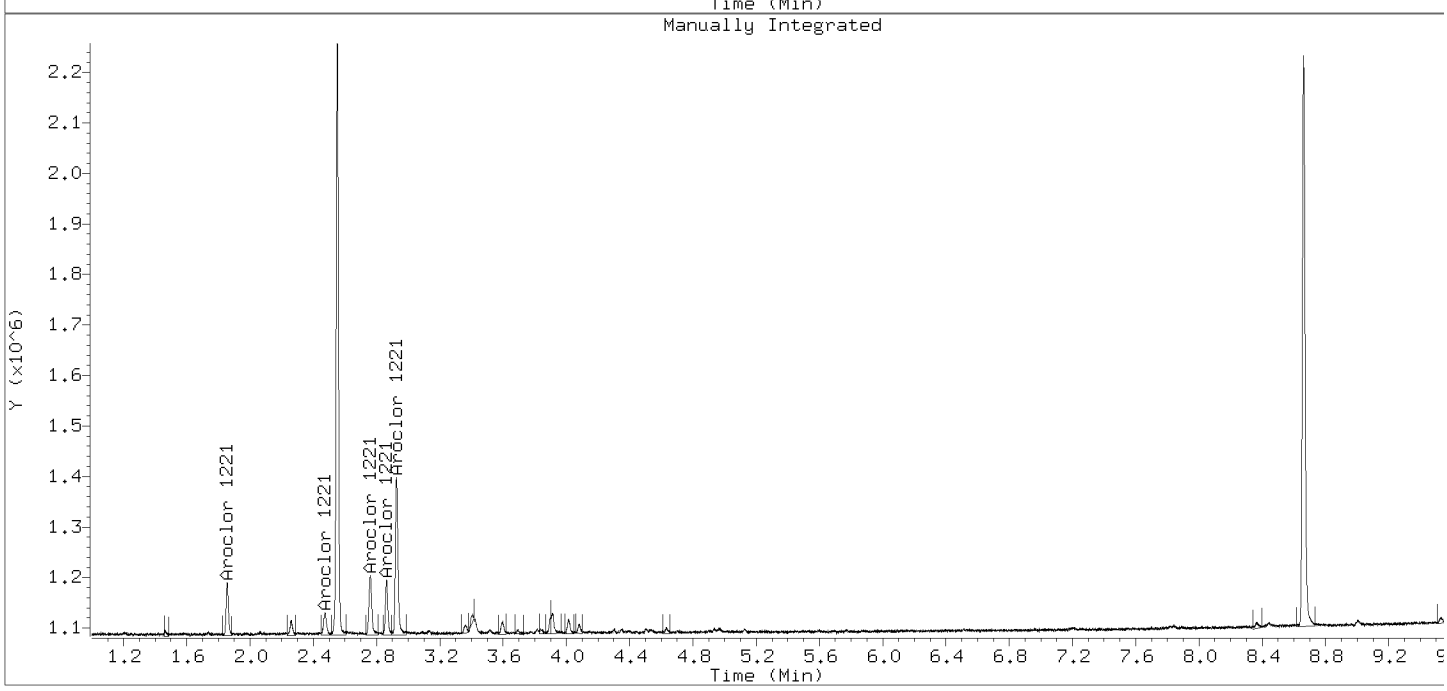
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618007.D (ManInt: NSAR1221.sub Orig: all.sub)
Injection Date: 06-MAR-2018 11:50 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL1F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	107776	111042	BA
Aroclor 1221	107776	111042	BA
Aroclor 1221	107776	111042	BA
Aroclor 1221	107776	111042	BA
Aroclor 1221	107776	111042	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618009.D
Lab Smp Id: 1221-CAL2F Client Smp ID: 1221-CAL2F
Inj Date : 06-MAR-2018 12:07
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17499,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:44 Cal File: 030618021.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.202	14390	14806	1.029	0.18		
1.467	15842	15405	0.972	0.20		
1.731	12430	12818	1.031	0.16		
1.855	220685	207186	0.939	2.91	1 Aroclor 1221	BA
2.059	17103	13948	0.816	0.22		
2.261	72738	59266	0.815	0.95		
2.474	119488	85439	0.715	1.57	1 Aroclor 1221	BA
2.551	2385781	2372951	0.995	31.48		
2.760	302441	236111	0.781	3.99	1 Aroclor 1221	BA
2.863	232098	215263	0.927	3.06	1 Aroclor 1221	BA
2.926	732283	652115	0.891	9.66	1 Aroclor 1221	BA
3.132	13043	15055	1.154	0.17		
3.361	51039	36834	0.722	0.67		
3.406	176150	82575	0.469	2.32		
3.517	16789	14013	0.835	0.22		
3.596	57411	44721	0.779	0.75		
3.695	17983	17247	0.959	0.23		
3.815	11764	13640	1.159	0.15		
3.912	137834	82630	0.599	1.81		
4.014	65417	55890	0.854	0.86		
4.081	40735	35700	0.876	0.53		
4.144	10564	7278	0.689	0.13		
4.297	9681	11094	1.146	0.12		
4.347	15308	15341	1.002	0.20		
4.505	15565	17533	1.126	0.20		
4.633	29541	21793	0.738	0.38		
4.936	12973	13841	1.067	0.17		
5.125	15652	14619	0.934	0.20		
6.514	10927	8890	0.814	0.14		
8.366	19576	17597	0.899	0.25		
8.662	2697755	2200345	0.816	35.78		
9.003	15638	13362	0.854	0.20		
9.526	10712	9717	0.907	0.14		
	7577336	6635023		100.000		

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618009.D
Lab Smp Id: 1221-CAL2F Client Smp ID: 1221-CAL2F
Inj Date : 06-MAR-2018 12:07
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal2f, 188139:1
Misc Info : 17499,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:44 Cal File: 030618021.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.854	1.853	0.001	220685	0.20000	0.22	0.00- 20.00	100.00(M)	BA
2.472	2.472	0.000	119487	0.20000	0.22	0.00- 20.00	54.14	BA
2.760	2.760	0.000	302441	0.20000	0.21	0.00- 20.00	137.05	BA
2.862	2.862	0.000	232098	0.20000	0.21	0.00- 20.00	105.17	BA
2.925	2.926	-0.001	732282	0.20000	0.22	0.00- 20.00	331.82	BA
Average of Peak Amounts =					0.21600			

QC Flag Legend

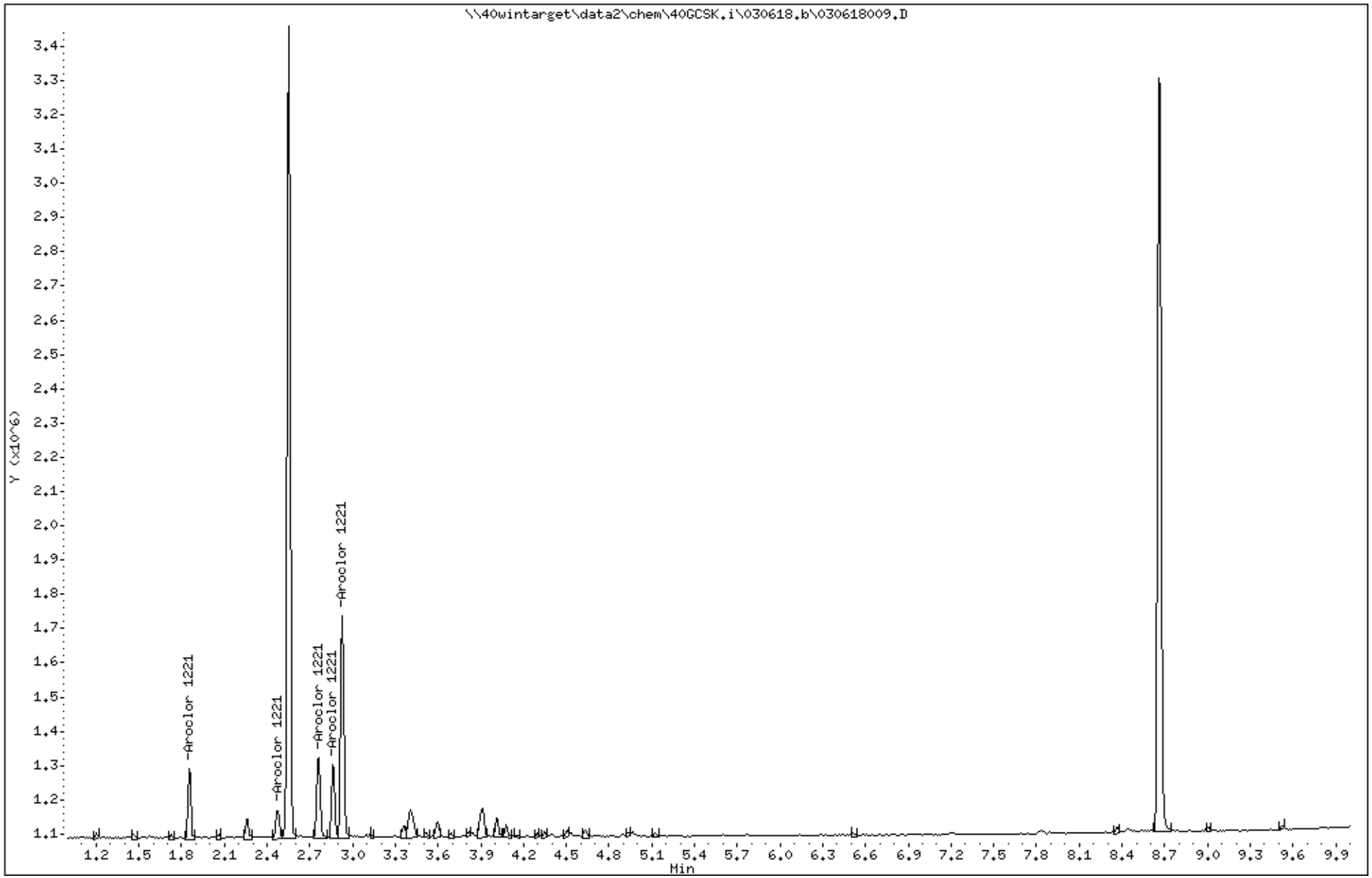
M - Compound response manually integrated.

Review Codes Legend

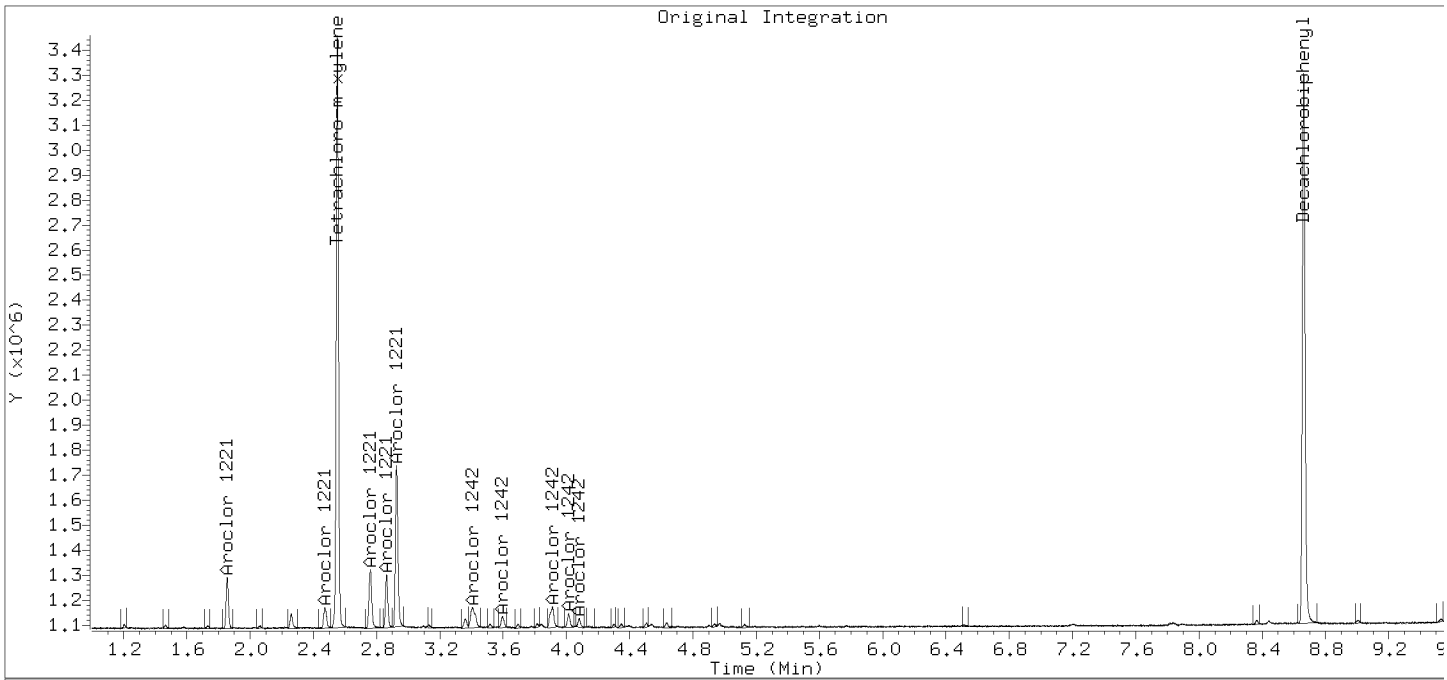
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

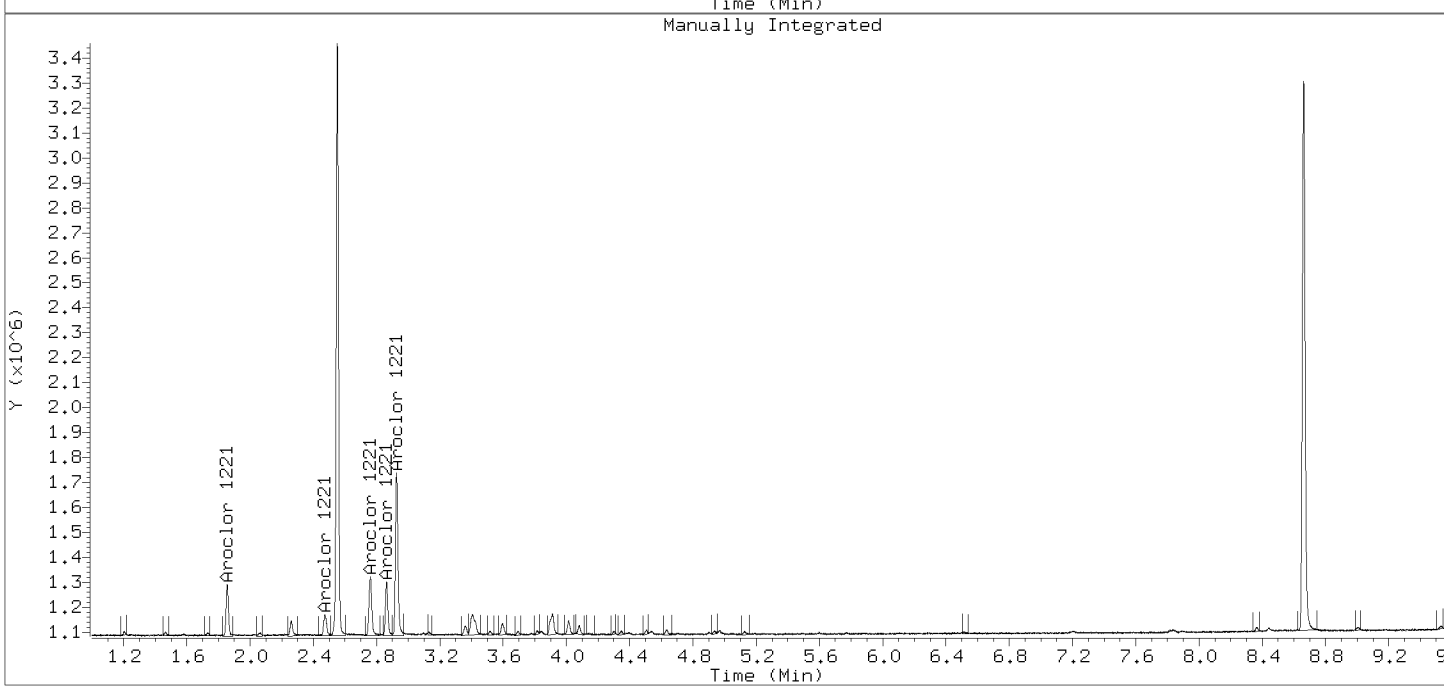
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618009.D
Date : 06-MAR-2018 12:07
Client ID: 1221-CAL2F
Sample Info: 1221-CAL2F, 188139:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618009.D (ManInt: NSAR1221.sub Orig: all.sub)
Injection Date: 06-MAR-2018 12:07 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL2F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	216140	220685	BA
Aroclor 1221	216140	220685	BA
Aroclor 1221	216140	220685	BA
Aroclor 1221	216140	220685	BA
Aroclor 1221	216140	220685	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618011.D
Lab Smp Id: 1221-CAL3F Client Smp ID: 1221-CAL3F
Inj Date : 06-MAR-2018 12:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal3f, 185538:1
Misc Info : 17499,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:23 Cal File: 030618011.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.205	33169	31328	0.945	0.18		
1.465	35382	36199	1.023	0.20		
1.578	17171	15985	0.931	0.09		
1.731	14500	16317	1.125	0.08		
1.855	472510	468335	0.991	2.70	1 Aroclor 1221	BA
2.062	26306	18269	0.694	0.15		
2.259	149690	136494	0.912	0.85		
2.474	248598	185625	0.747	1.42	1 Aroclor 1221	BA
2.552	5589629	5619183	1.005	32.01		
2.761	665756	547148	0.822	3.81	1 Aroclor 1221	BA
2.863	521021	495973	0.952	2.98	1 Aroclor 1221	BA
2.926	1607671	1397233	0.869	9.20	1 Aroclor 1221	BA
3.095	16309	15814	0.970	0.09		
3.129	40994	30117	0.735	0.23		
3.362	102519	81000	0.790	0.58		
3.408	377800	191271	0.506	2.16		
3.516	36902	30850	0.836	0.21		
3.596	131724	101472	0.770	0.75		
3.691	29779	31812	1.068	0.17		
3.778	11752	10206	0.868	0.06		
3.815	39850	38226	0.959	0.22		
3.841	59827	36928	0.617	0.34		
3.898	94648	143415	1.515	0.54		
3.912	246000	188269	0.765	1.40		
4.015	162000	127171	0.785	0.92		
4.080	109376	87573	0.801	0.62		
4.141	27966	18890	0.675	0.16		
4.301	34272	31312	0.914	0.19		
4.347	32351	32047	0.991	0.18		
4.380	18721	17470	0.933	0.10		
4.398	18457	17413	0.943	0.10		
4.504	39446	40425	1.025	0.22		
4.538	44750	29445	0.658	0.25		
4.635	54262	44777	0.825	0.31		
4.703	12529	12313	0.983	0.07		
4.902	19665	16898	0.859	0.11		
4.937	34226	30781	0.899	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.965	44551	32568	0.731	0.25	
5.127	31034	28404	0.915	0.17	
5.251	11377	11105	0.976	0.06	
5.600	12872	10541	0.819	0.07	
5.771	10877	10326	0.949	0.06	
6.512	18393	12834	0.698	0.10	
7.198	10624	8482	0.798	0.06	
7.818	18193	19550	1.075	0.10	
7.839	25096	18158	0.724	0.14	
7.893	16893	10913	0.646	0.09	
8.367	46565	39277	0.843	0.26	
8.440	15206	13725	0.903	0.08	
8.661	5958561	4997665	0.839	34.39	
9.004	30973	18672	0.603	0.17	
9.529	28851	17023	0.590	0.16	
	17457593	15623227		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618011.D
Lab Smp Id: 1221-CAL3F Client Smp ID: 1221-CAL3F
Inj Date : 06-MAR-2018 12:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal3f, 185538:1
Misc Info : 17499,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:23 Cal File: 030618011.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.854	1.853	0.001	472510	0.50000	0.48	0.00- 20.00	100.00(M)	BA
2.474	2.472	0.002	248598	0.50000	0.46	0.00- 20.00	52.61	BA
2.760	2.760	0.000	665756	0.50000	0.47	0.00- 20.00	140.90	BA
2.862	2.862	0.000	521020	0.50000	0.47	0.00- 20.00	110.27	BA
2.925	2.926	-0.001	1607671	0.50000	0.48	0.00- 20.00	340.24	BA
Average of Peak Amounts =					0.47200			

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\030618.b\030618011.D

Date : 06-MAR-2018 12:23

Client ID: 1221-CAL3F

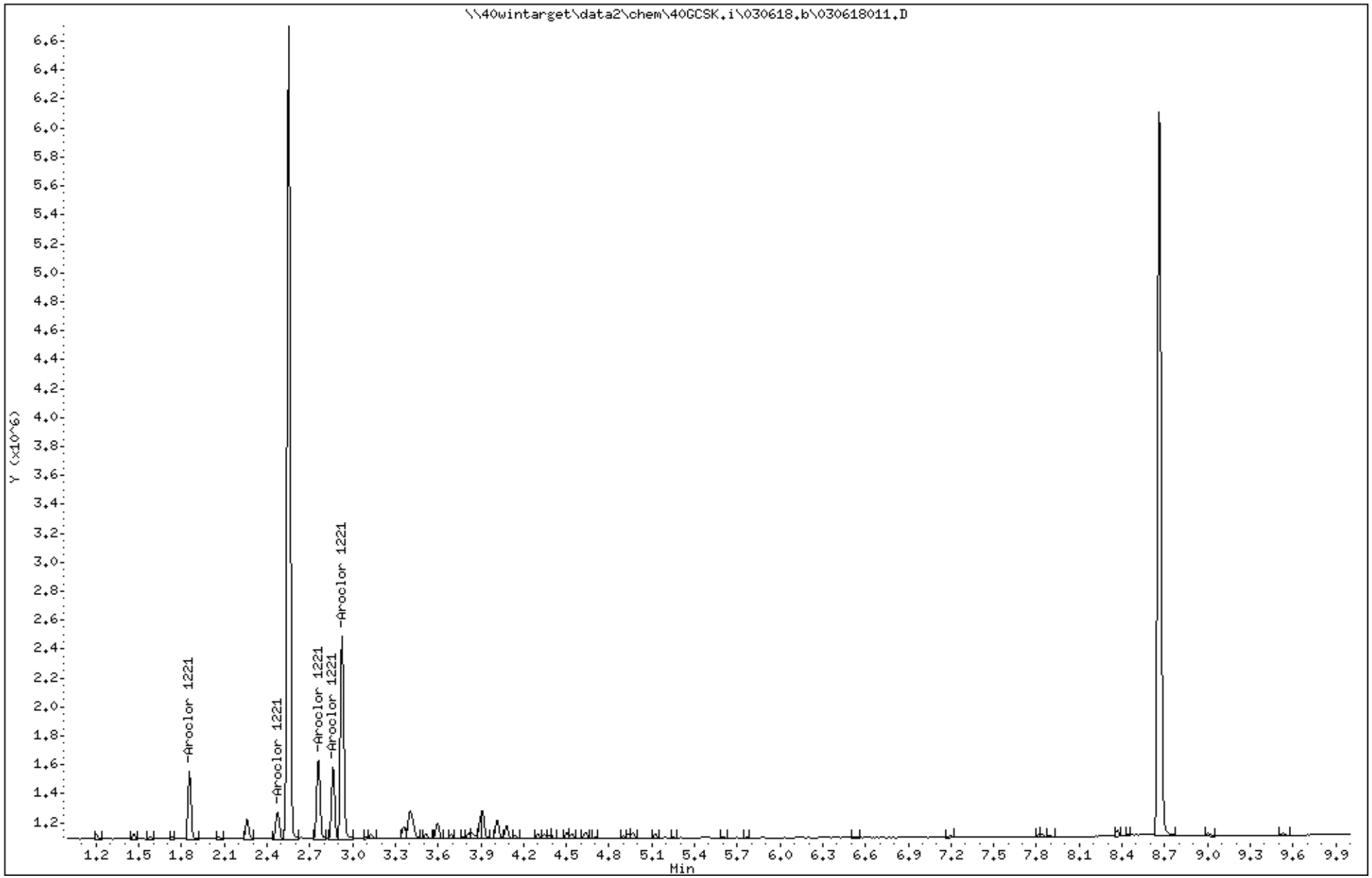
Instrument: 40GCSK.i

Sample Info: 1221-CAL3F, 185538:1

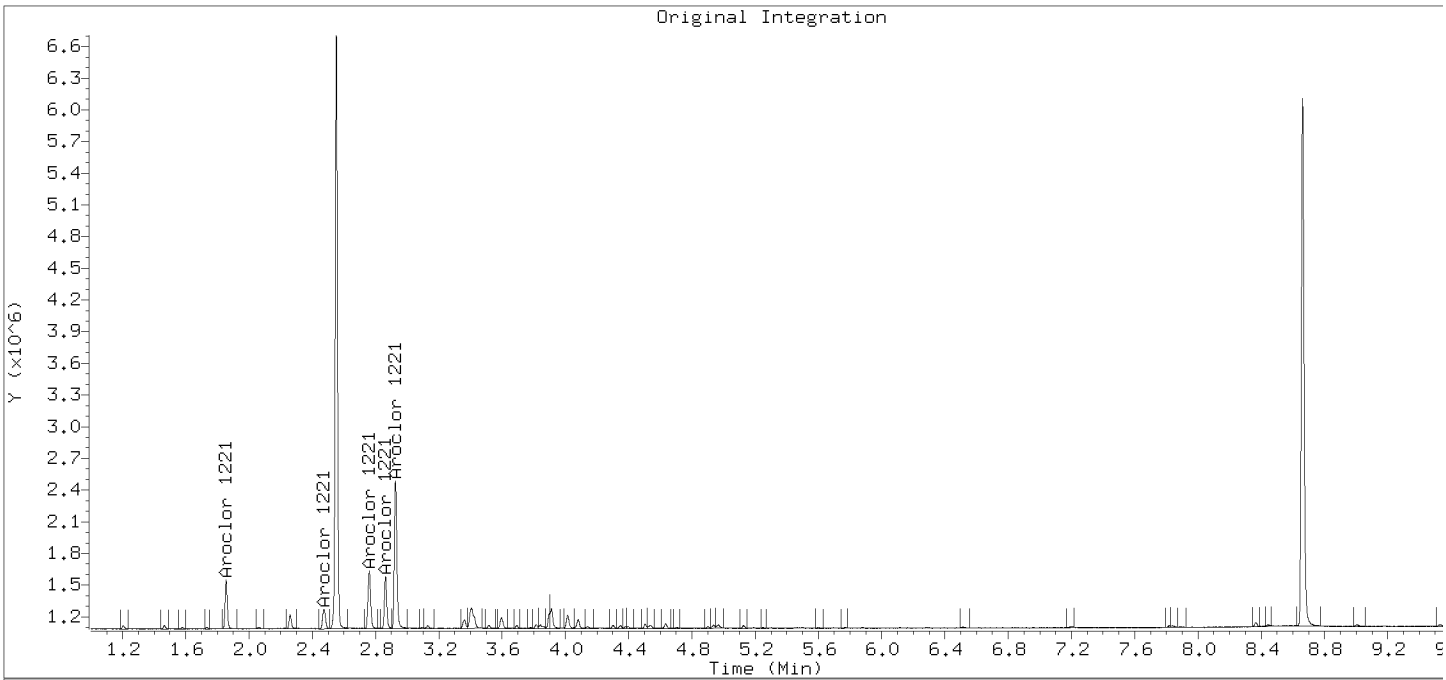
Operator: BLM

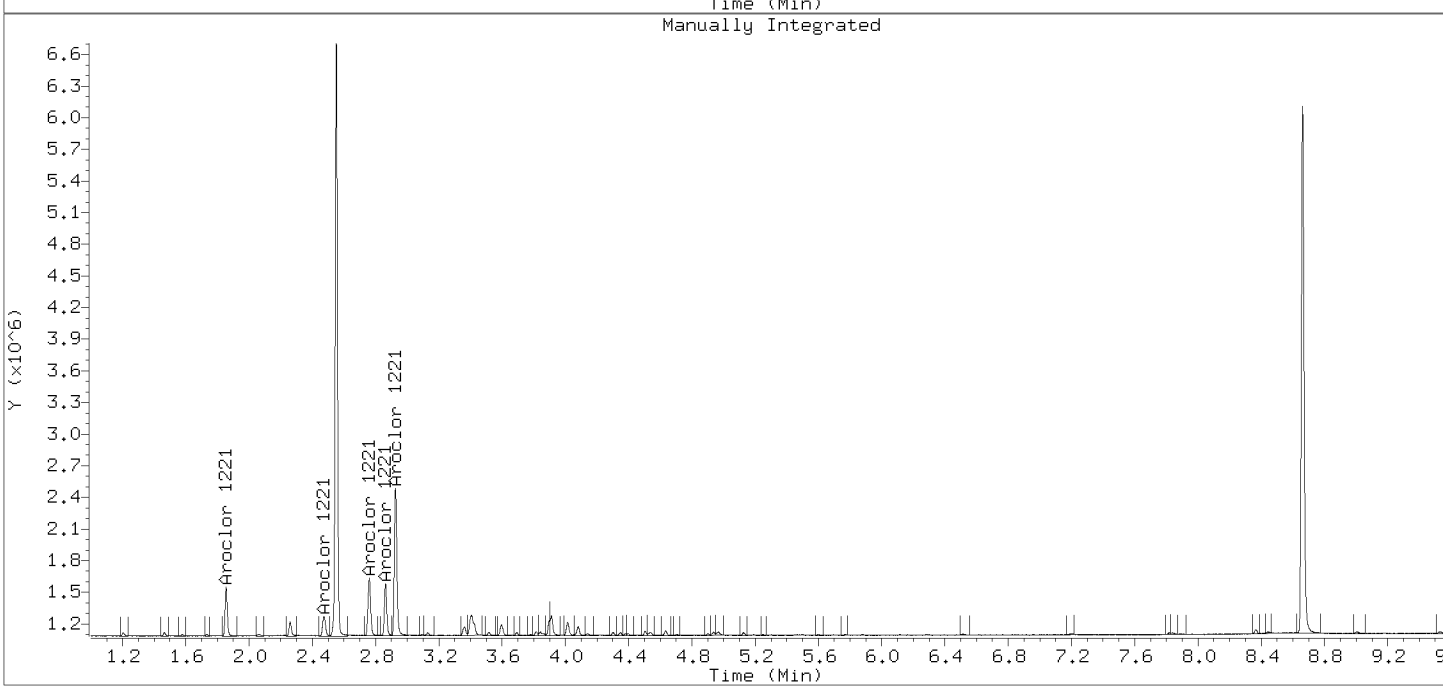
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618011.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:23 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL3F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	464510	472510	BA
Aroclor 1221	464510	472510	BA
Aroclor 1221	464510	472510	BA
Aroclor 1221	464510	472510	BA
Aroclor 1221	464510	472510	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618013.D
Lab Smp Id: 1221-CAL4F Client Smp ID: 1221-CAL4F
Inj Date : 06-MAR-2018 12:39
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17499,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:39 Cal File: 030618013.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.465	61914	60025	0.969	0.19		
1.579	26402	25060	0.949	0.08		
1.732	10528	10656	1.012	0.03		
1.855	728077	721730	0.991	2.34	1 Aroclor 1221	BA
2.219	14288	12090	0.846	0.04		
2.259	229394	210685	0.918	0.73		
2.473	380420	285286	0.750	1.22	1 Aroclor 1221	BA
2.551	10662514	10796391	1.013	34.34		
2.760	1046859	848743	0.811	3.37	1 Aroclor 1221	BA
2.862	834281	796882	0.955	2.68	1 Aroclor 1221	BA
2.925	2476484	2156027	0.871	7.97	1 Aroclor 1221	BA
3.131	52806	46155	0.874	0.17		
3.298	10623	9368	0.882	0.03		
3.361	173215	129394	0.747	0.55		
3.407	608724	306271	0.503	1.96		
3.516	57728	47759	0.827	0.18		
3.596	213111	156686	0.735	0.68		
3.694	56650	57780	1.020	0.18		
3.777	13940	13955	1.001	0.04		
3.814	56688	56330	0.994	0.18		
3.842	63115	55289	0.876	0.20		
3.911	512278	291993	0.570	1.65		
4.014	251164	196657	0.783	0.80		
4.080	144324	129600	0.898	0.46		
4.144	24528	20018	0.816	0.07		
4.301	53818	48907	0.909	0.17		
4.348	50570	45963	0.909	0.16		
4.380	19413	21726	1.119	0.06		
4.396	25441	25346	0.996	0.08		
4.505	62994	61129	0.970	0.20		
4.536	72630	48758	0.671	0.23		
4.635	73603	68524	0.931	0.23		
4.706	21212	18071	0.852	0.06		
4.900	30379	28078	0.924	0.09		
4.937	54355	49189	0.905	0.17		
4.966	64332	47990	0.746	0.20		
5.130	54465	42461	0.780	0.17		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.189	12749	12007	0.942	0.04	
5.249	15738	14270	0.907	0.05	
5.496	13663	11060	0.809	0.04	
5.599	20182	16762	0.831	0.06	
5.880	10340	8865	0.857	0.03	
7.212	16357	11266	0.689	0.05	
7.820	53876	35264	0.655	0.17	
7.893	27224	18922	0.695	0.08	
8.364	93001	75766	0.815	0.29	
8.662	11460358	9454184	0.825	37.15	
9.176	16663	12619	0.757	0.05	
9.531	12046	10101	0.839	0.03	
	31045468	27628058		100.000	

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618013.D
Lab Smp Id: 1221-CAL4F Client Smp ID: 1221-CAL4F
Inj Date : 06-MAR-2018 12:39
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal4f, 188140:1
Misc Info : 17499,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:39 Cal File: 030618013.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.854	1.853	0.001	728077	0.80000	0.73	0.00- 20.00	100.00(M)	BA
2.473	2.472	0.001	380419	0.80000	0.71	0.00- 20.00	52.25	BA
2.759	2.760	-0.001	1046859	0.80000	0.74	0.00- 20.00	143.78	BA
2.861	2.862	-0.001	834280	0.80000	0.75	0.00- 20.00	114.59	BA
2.925	2.926	-0.001	2476484	0.80000	0.74	0.00- 20.00	340.14	BA
Average of Peak Amounts =					0.73400			

QC Flag Legend

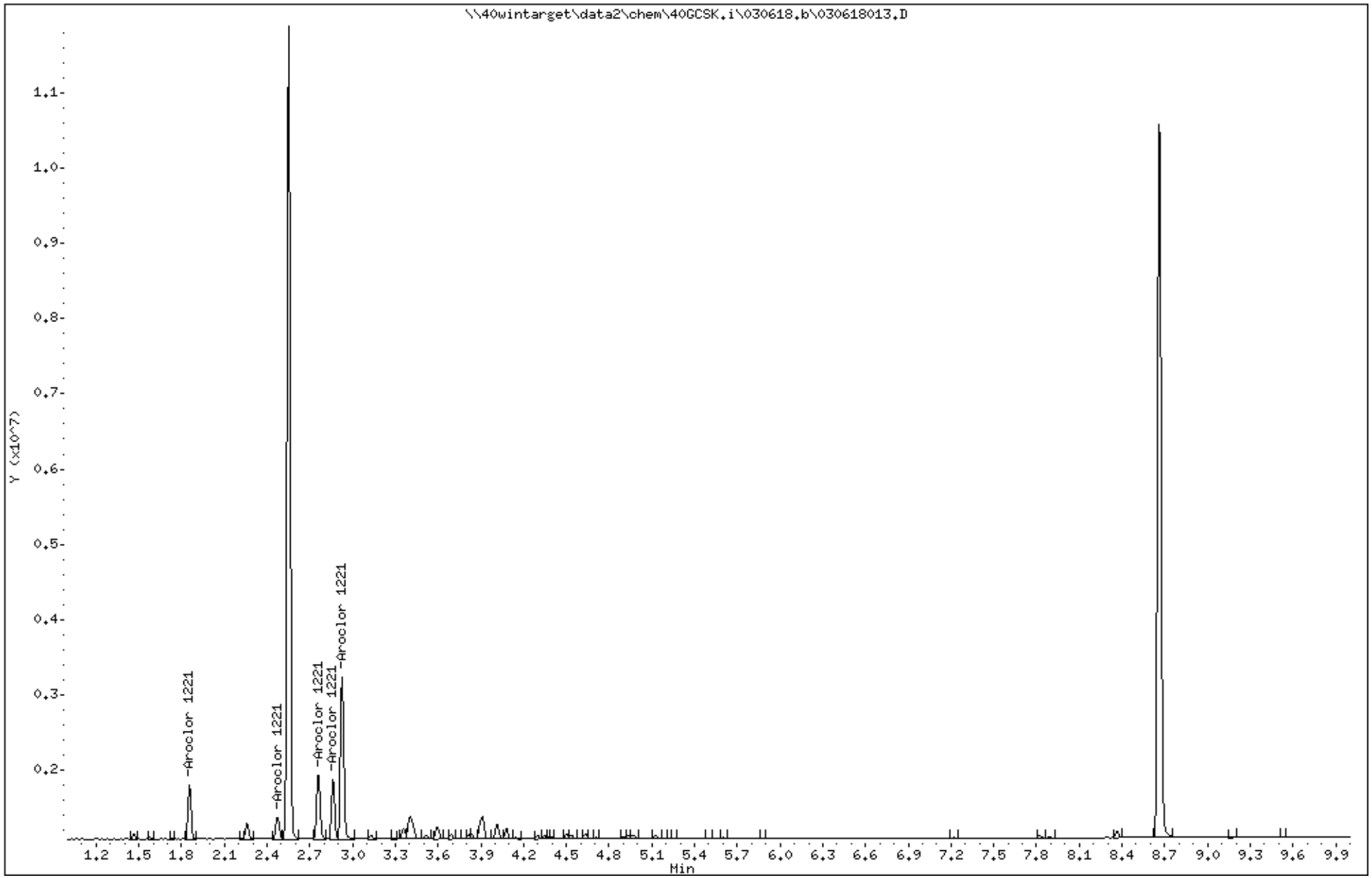
M - Compound response manually integrated.

Review Codes Legend

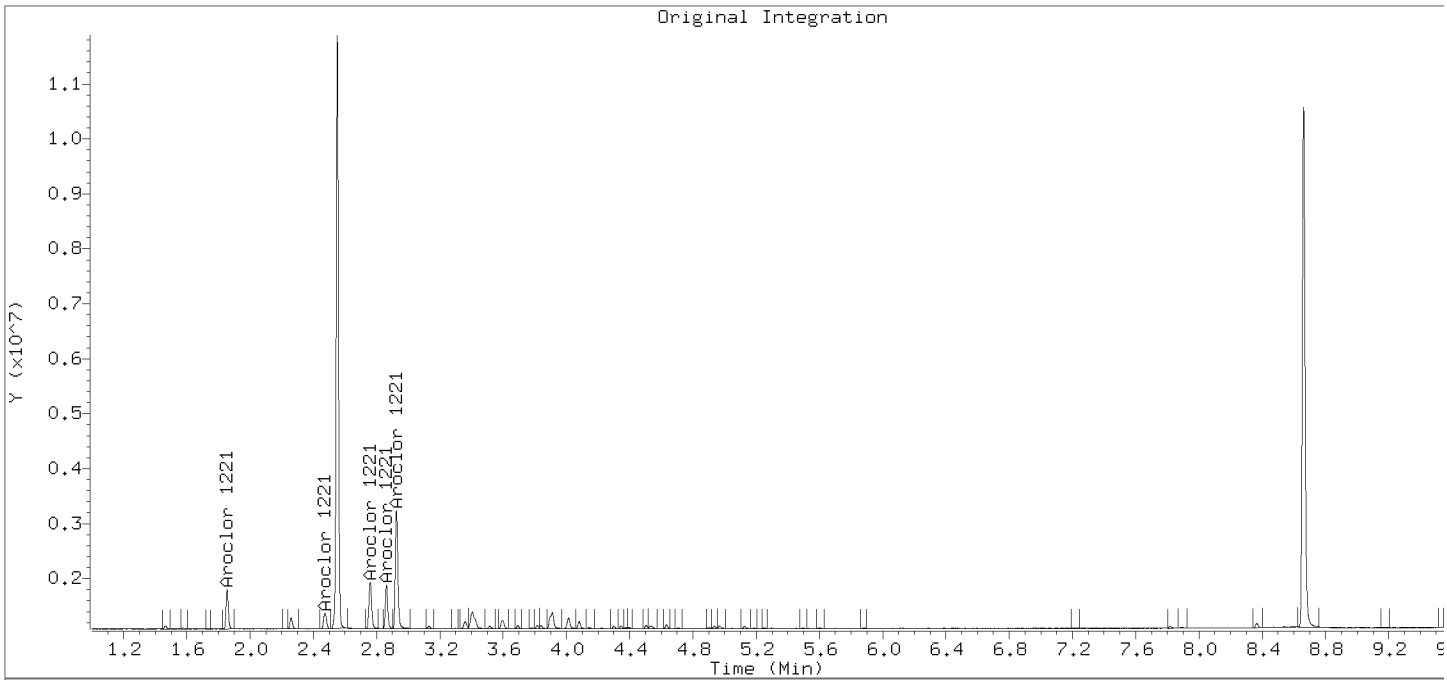
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

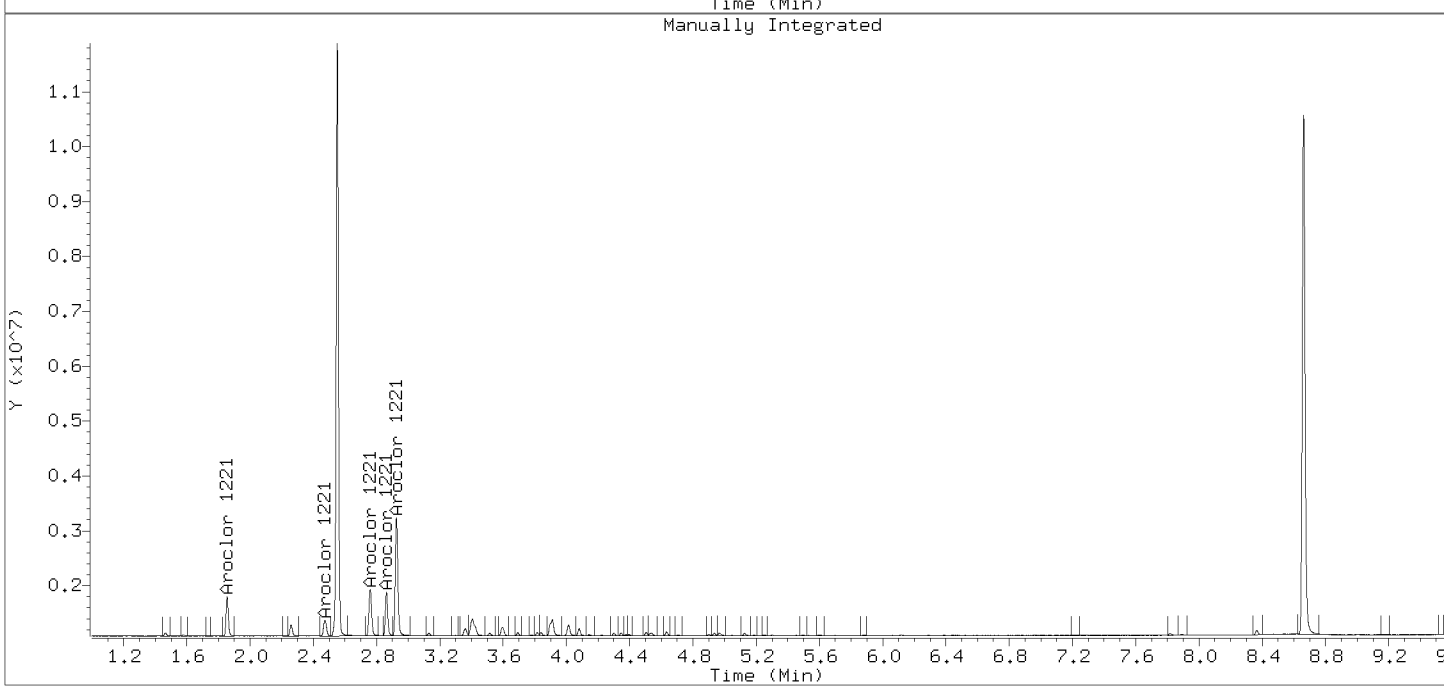
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618013.D
Date : 06-MAR-2018 12:39
Client ID: 1221-CAL4F
Sample Info: 1221-CAL4F, 188140:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618013.D (ManInt: NSAR1221.sub Orig: NSAR1221.sub)
Injection Date: 06-MAR-2018 12:39 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL4F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	717153	728077	BA
Aroclor 1221	717153	728077	BA
Aroclor 1221	717153	728077	BA
Aroclor 1221	717153	728077	BA
Aroclor 1221	717153	728077	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618015.D
Lab Smp Id: 1221-CAL5F Client Smp ID: 1221-CAL5F
Inj Date : 06-MAR-2018 12:55
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17499,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 12:55 Cal File: 030618015.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.464	91206	90915	0.997	0.20		
1.578	39245	36960	0.942	0.08		
1.854	903334	885522	0.980	2.01	1 Aroclor 1221	BA
2.222	17256	17446	1.011	0.03		
2.259	281472	262731	0.933	0.62		
2.473	476187	365188	0.767	1.06	1 Aroclor 1221	BA
2.551	16287972	16354669	1.004	36.41		
2.638	27054	19392	0.717	0.06		
2.760	1318154	1066179	0.809	2.94	1 Aroclor 1221	BA
2.862	1086008	1023539	0.942	2.42	1 Aroclor 1221	BA
2.925	3118782	2719712	0.872	6.97	1 Aroclor 1221	BA
3.131	79694	64894	0.814	0.17		
3.296	13972	11046	0.791	0.03		
3.361	218085	164615	0.755	0.48		
3.406	773223	394255	0.510	1.72		
3.516	72429	58173	0.803	0.16		
3.595	267800	197300	0.737	0.59		
3.692	85163	84280	0.990	0.19		
3.779	15781	17705	1.122	0.03		
3.815	71373	70712	0.991	0.15		
3.839	77207	70721	0.916	0.17		
3.912	648349	376926	0.581	1.44		
4.014	311197	247942	0.797	0.69		
4.079	183839	160480	0.873	0.41		
4.145	25947	23001	0.886	0.05		
4.223	11993	10016	0.835	0.02		
4.299	63776	62960	0.987	0.14		
4.346	59654	59437	0.996	0.13		
4.377	25664	26061	1.015	0.05		
4.395	31633	30079	0.951	0.07		
4.504	80401	75345	0.937	0.17		
4.536	84823	59679	0.704	0.18		
4.634	95590	86843	0.908	0.21		
4.708	21429	21250	0.992	0.04		
4.901	35023	32889	0.939	0.07		
4.935	62853	59588	0.948	0.14		
4.967	87175	58549	0.672	0.19		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.127	67752	53594	0.791	0.15	
5.187	19586	13640	0.696	0.04	
5.253	17475	16568	0.948	0.03	
5.303	16274	10111	0.621	0.03	
5.495	16190	13872	0.857	0.03	
5.534	15005	11614	0.774	0.03	
5.599	26834	20754	0.773	0.05	
6.115	10870	10854	0.999	0.02	
7.214	19472	11081	0.569	0.04	
7.818	66345	49586	0.747	0.14	
7.890	25265	22471	0.889	0.05	
8.364	148444	119878	0.808	0.33	
8.611	13498	9430	0.699	0.03	
8.661	17091317	14186918	0.830	38.49	
9.175	24169	17466	0.723	0.05	
	44729239	39934836		100.000	

Total unknown % area = 85

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618015.D
Lab Smp Id: 1221-CAL5F Client Smp ID: 1221-CAL5F
Inj Date : 06-MAR-2018 12:55
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-cal5f, 188141:1
Misc Info : 17499,NSAR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 12:55 Cal File: 030618015.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
1.854	1.853	0.001	903333	1.00000	0.91	0.00- 20.00	100.00(M)	BA
2.473	2.472	0.001	476187	1.00000	0.89	0.00- 20.00	52.71	BA
2.759	2.760	-0.001	1318154	1.00000	0.94	0.00- 20.00	145.92	BA
2.862	2.862	0.000	1086008	1.00000	0.98	0.00- 20.00	120.22	BA
2.925	2.926	-0.001	3118782	1.00000	0.93	0.00- 20.00	345.25	BA
Average of Peak Amounts =					0.93000			

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\030618.b\030618015.D

Date : 06-MAR-2018 12:55

Client ID: 1221-CAL5F

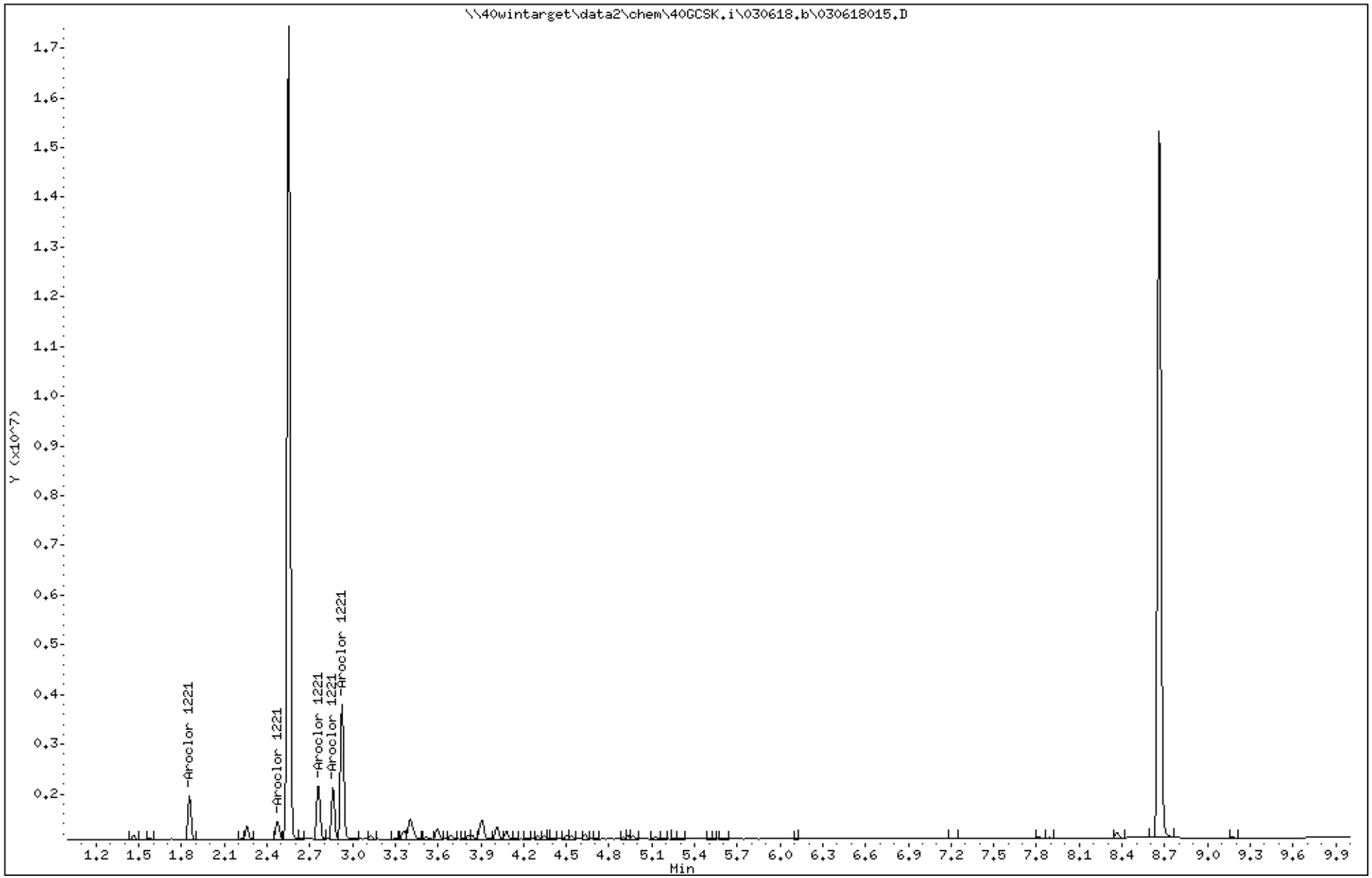
Instrument: 40GCSK.i

Sample Info: 1221-CAL5F, 188141:1

Operator: BLM

Column phase: ZB-1ms

Column diameter: 0.18



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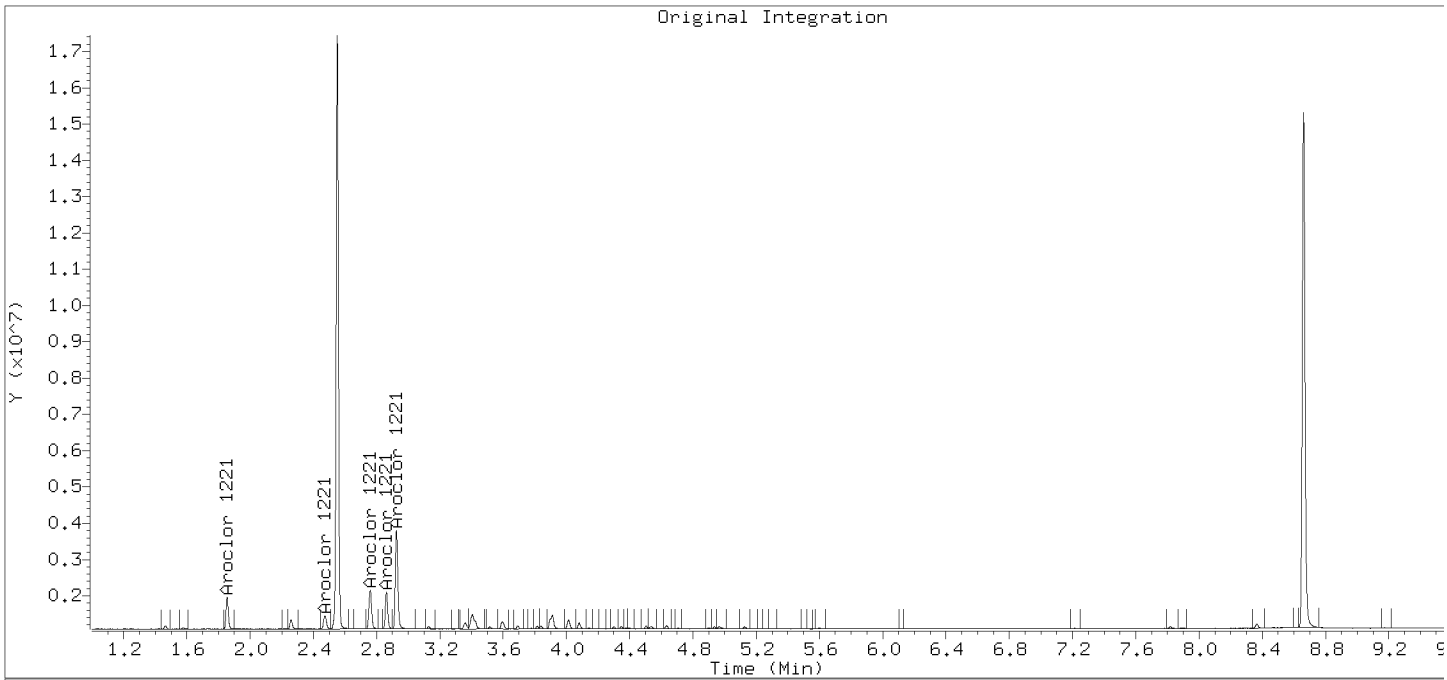
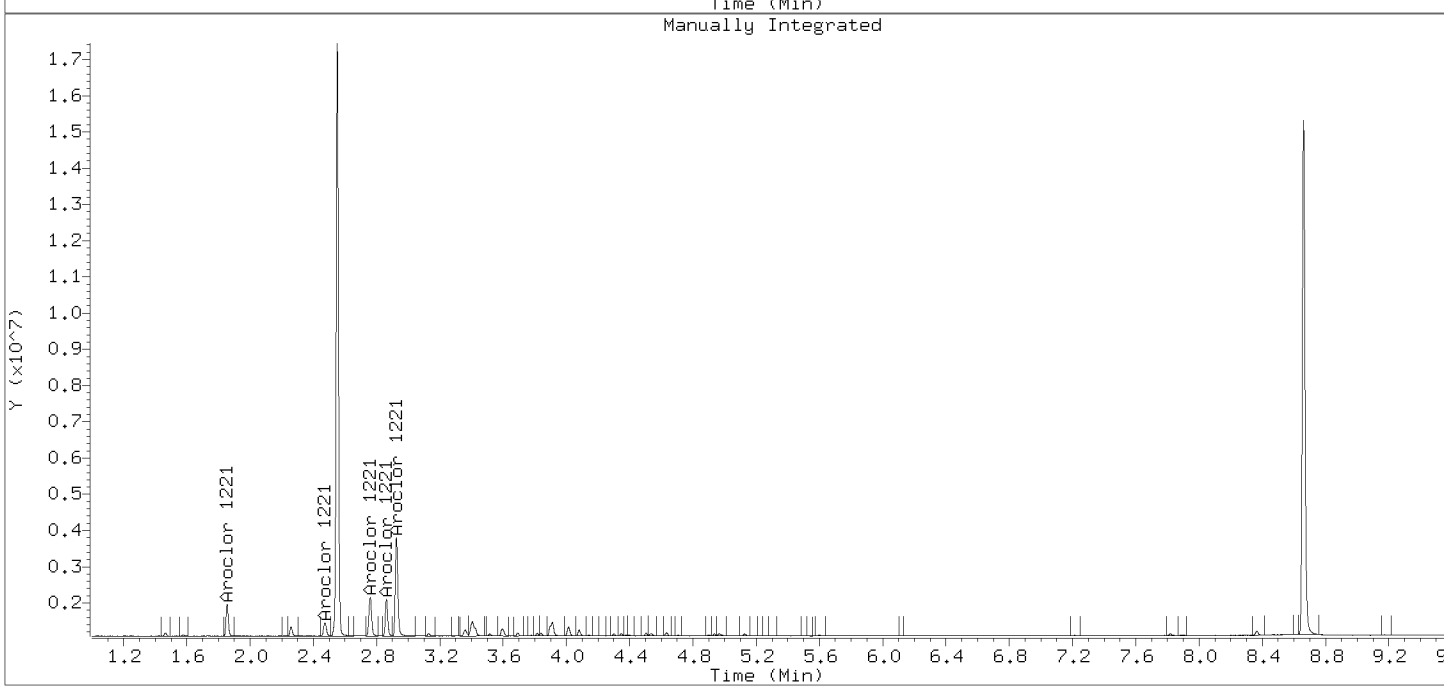
Injection Date: 06-MAR-2018 12:55 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CAL5F





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	892859	903333	BA
Aroclor 1221	892859	903333	BA
Aroclor 1221	892859	903333	BA
Aroclor 1221	892859	903333	BA
Aroclor 1221	892859	903333	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618019.D
Lab Smp Id: 1242-CAL1B Client Smp ID: 1242-CAL1B
Inj Date : 06-MAR-2018 13:28
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17499,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:28 Cal File: 030618019.D
Als bottle: 12 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.203	31492	31854	1.012	0.34		
1.464	10959	10400	0.949	0.12		
1.733	24158	21340	0.883	0.26		
2.065	23110	19090	0.826	0.25		
2.470	28052	22632	0.807	0.30		
2.551	1250384	1261957	1.009	13.70		
2.756	36541	30614	0.838	0.40		
2.863	58622	56340	0.961	0.64		
2.925	207573	185827	0.895	2.27		
3.094	19243	16275	0.846	0.21		
3.132	38535	30762	0.798	0.42		
3.397	277205	262729	0.948	3.03	3 Aroclor 1242	BA
3.424	175172	156435	0.893	1.92		
3.516	51549	41820	0.811	0.56		
3.596	280614	201146	0.717	3.07	3 Aroclor 1242	BA
3.692	12811	11195	0.874	0.14		
3.815	70036	66565	0.950	0.76		
3.839	66494	44885	0.675	0.72		
3.910	827195	462982	0.560	9.06	3 Aroclor 1242	BA
4.013	346636	271736	0.784	3.79	3 Aroclor 1242	BA
4.080	241376	200083	0.829	2.64	3 Aroclor 1242	BA
4.143	90958	64821	0.713	0.99		
4.223	33290	28820	0.866	0.36		
4.300	192775	179802	0.933	2.11		
4.346	186728	173278	0.928	2.04		
4.378	74162	84382	1.138	0.81		
4.395	107307	92284	0.860	1.17		
4.504	246273	231521	0.940	2.69		
4.540	204915	149465	0.729	2.24		
4.633	332352	290881	0.875	3.64		
4.706	80103	68846	0.859	0.87		
4.815	18139	16660	0.918	0.19		
4.855	19745	17827	0.903	0.21		
4.901	150218	138855	0.924	1.64		
4.936	264989	241921	0.913	2.90		
4.967	365367	237796	0.651	4.00		
5.046	46816	33254	0.710	0.51		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.127	280869	238148	0.848	3.07	
5.190	61818	51750	0.837	0.67	
5.250	74970	65390	0.872	0.82	
5.299	61718	51338	0.832	0.67	
5.398	18423	13702	0.744	0.20	
5.453	52483	38456	0.733	0.57	
5.497	76787	64991	0.846	0.84	
5.535	54375	43442	0.799	0.59	
5.599	116822	97331	0.833	1.28	
5.694	37471	32308	0.862	0.41	
5.769	14827	11519	0.777	0.16	
5.881	85924	69005	0.803	0.94	
6.116	85280	59460	0.697	0.93	
6.387	23971	20671	0.862	0.26	
6.510	16016	10978	0.685	0.17	
6.627	12293	9648	0.785	0.13	
7.196	24400	14255	0.584	0.26	
7.838	13990	13736	0.982	0.15	
8.362	18176	12463	0.686	0.19	
8.439	11539	11091	0.961	0.12	
8.661	1450721	1221810	0.842	16.20	
9.002	27360	18649	0.682	0.29	
9.528	10823	10423	0.963	0.11	
	9122947	7637644		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618019.D
Lab Smp Id: 1242-CAL1B Client Smp ID: 1242-CAL1B
Inj Date : 06-MAR-2018 13:28
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal1b, 188132:1
Misc Info : 17499,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:28 Cal File: 030618019.D
Als bottle: 12 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.397	3.398	-0.001	277204	0.10000	0.11	0.00- 20.00	100.00(M)	BA
3.596	3.596	0.000	280613	0.10000	0.11	0.00- 20.00	101.23	BA
3.910	3.910	0.000	827195	0.10000	0.11	0.00- 20.00	298.41	BA
4.013	4.013	0.000	346635	0.10000	0.11	0.00- 20.00	125.05	BA
4.079	4.080	-0.001	241376	0.10000	0.11	0.00- 20.00	87.08	BA
Average of Peak Amounts =					0.11000			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

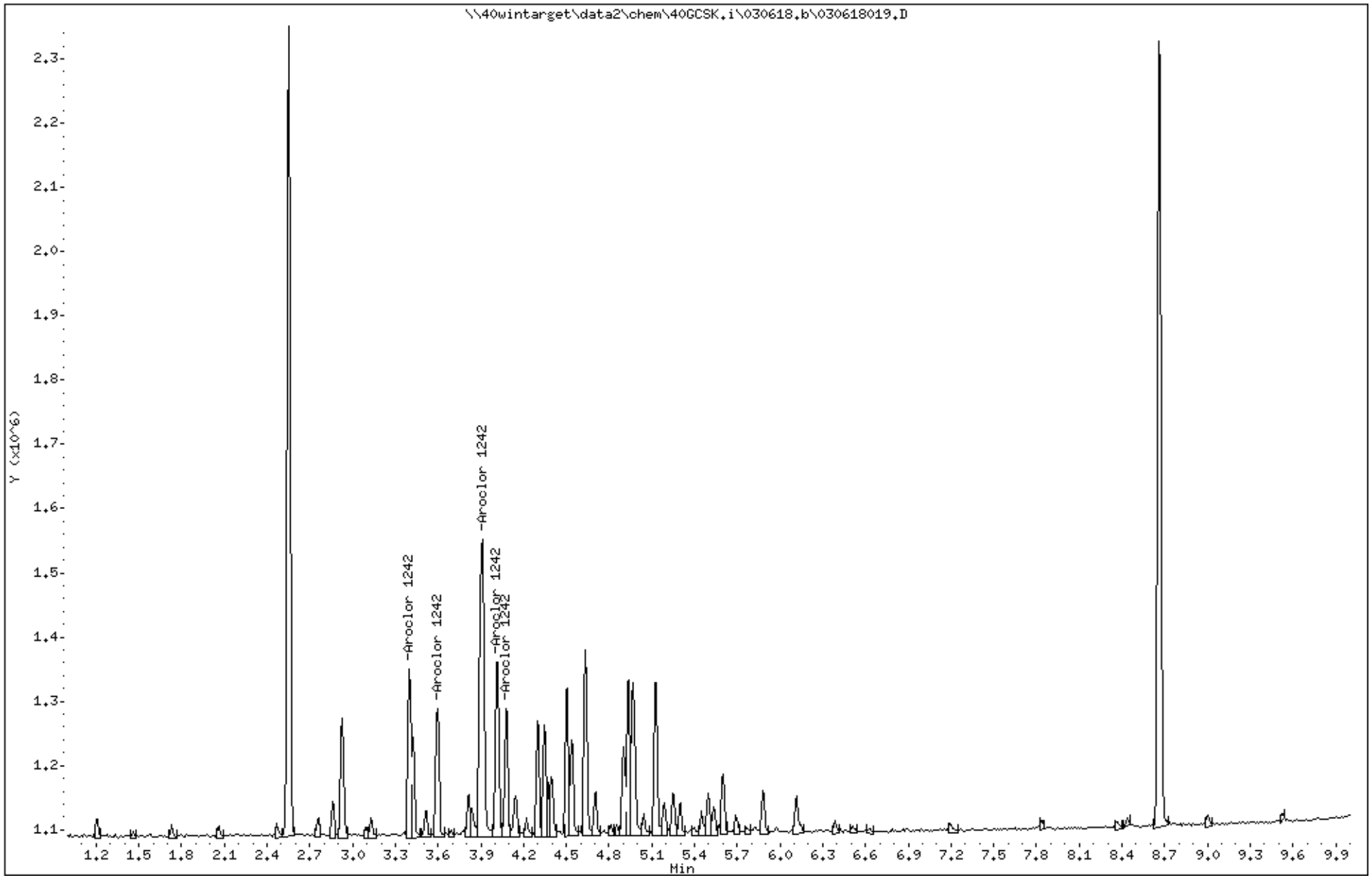
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618019.D
Date : 06-MAR-2018 13:28
Client ID: 1242-CAL1B
Sample Info: 1242-CAL1B, 188132:1

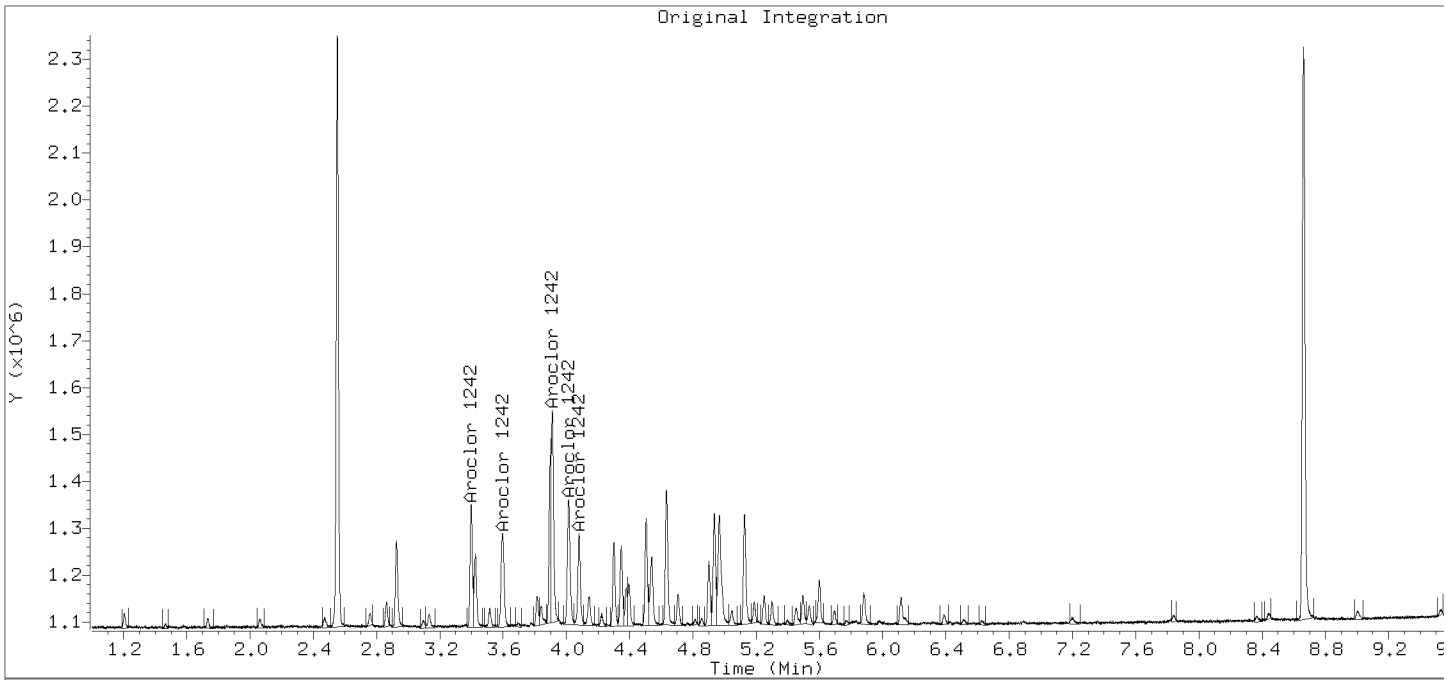
Instrument: 40GCSK.i

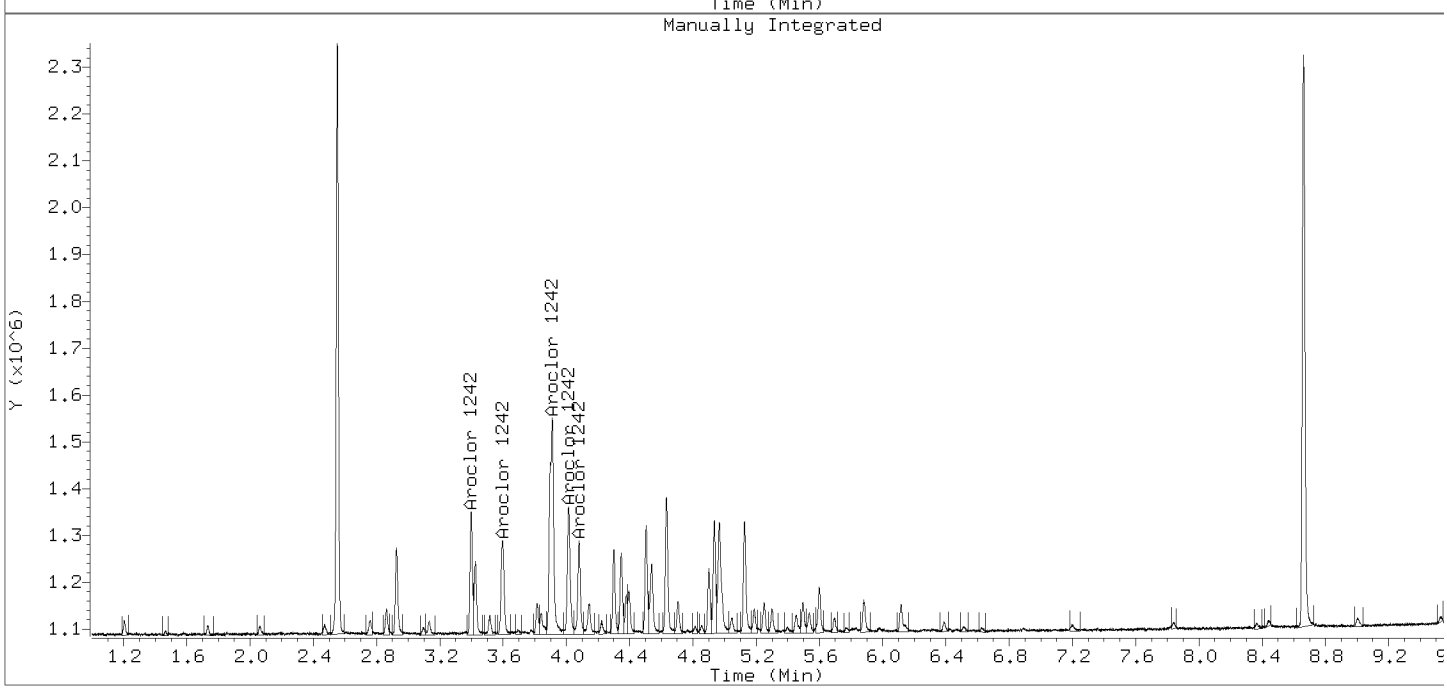
Operator: BLM

Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618019.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 13:28 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL1B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	274015	277204	BA
Aroclor 1242	274015	277204	BA
Aroclor 1242	274015	277204	BA
Aroclor 1242	274015	277204	BA
Aroclor 1242	274015	277204	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618021.D
Lab Smp Id: 1242-CAL2B Client Smp ID: 1242-CAL2B
Inj Date : 06-MAR-2018 13:44
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17499,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 13:44 Cal File: 030618021.D
Als bottle: 13 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.465	16047	16112	1.004	0.09		
1.733	12813	13955	1.089	0.07		
2.472	50601	38631	0.763	0.29		
2.552	2364719	2349900	0.994	13.93		
2.758	77517	57769	0.745	0.45		
2.864	116610	101669	0.872	0.68		
2.925	397870	358088	0.900	2.34		
3.133	62156	56287	0.906	0.36		
3.398	535930	519454	0.969	3.15	3 Aroclor 1242	BA
3.424	335855	291077	0.867	1.97		
3.516	94487	77535	0.821	0.55		
3.597	536149	387058	0.722	3.15	3 Aroclor 1242	BA
3.693	20750	16449	0.793	0.12		
3.780	17641	18215	1.033	0.10		
3.815	130942	132603	1.013	0.77		
3.841	100251	83171	0.830	0.59		
3.911	1608891	884075	0.549	9.48	3 Aroclor 1242	BA
4.015	681908	536108	0.786	4.01	3 Aroclor 1242	BA
4.081	445351	395742	0.889	2.62	3 Aroclor 1242	BA
4.145	142249	120819	0.849	0.83		
4.223	52211	46603	0.893	0.30		
4.300	366423	339302	0.926	2.15		
4.347	355503	335456	0.944	2.09		
4.380	144951	154008	1.062	0.85		
4.396	204740	176119	0.860	1.20		
4.504	484494	463116	0.956	2.85		
4.539	393302	284865	0.724	2.31		
4.634	661255	577078	0.873	3.89		
4.706	154950	135994	0.878	0.91		
4.814	34303	28914	0.843	0.20		
4.857	37982	33141	0.873	0.22		
4.901	290506	264117	0.909	1.71		
4.936	514648	483435	0.939	3.03		
4.967	691459	485959	0.703	4.07		
5.045	88889	61566	0.693	0.52		
5.127	548877	487439	0.888	3.23		
5.188	133132	99020	0.744	0.78		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.250	143538	121125	0.844	0.84	
5.300	109173	94235	0.863	0.64	
5.396	28893	21739	0.752	0.17	
5.452	92954	74194	0.798	0.54	
5.495	144575	124724	0.863	0.85	
5.536	101619	82653	0.813	0.59	
5.599	245459	186037	0.758	1.44	
5.695	75705	61094	0.807	0.44	
5.763	11985	9458	0.789	0.07	
5.804	13672	12745	0.932	0.08	
5.824	26035	17200	0.661	0.15	
5.882	174229	132371	0.760	1.02	
5.976	19067	18215	0.955	0.11	
6.002	15924	10289	0.646	0.09	
6.114	136884	107753	0.787	0.80	
6.390	42424	37334	0.880	0.24	
6.632	22845	14230	0.623	0.13	
7.891	9878	8919	0.903	0.05	
8.362	23680	18037	0.762	0.13	
8.661	2625868	2157986	0.822	15.76	
	16970771	14221187		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618021.D
Lab Smp Id: 1242-CAL2B Client Smp ID: 1242-CAL2B
Inj Date : 06-MAR-2018 13:44
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal2b, 185543:1
Misc Info : 17499,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 13:44 Cal File: 030618021.D
Als bottle: 13 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.397	3.398	-0.001	535929	0.20000	0.21	0.00- 20.00	100.00(M)	BA
3.596	3.596	0.000	536149	0.20000	0.21	0.00- 20.00	100.04	BA
3.911	3.910	0.001	1608890	0.20000	0.21	0.00- 20.00	300.21	BA
4.014	4.013	0.001	681907	0.20000	0.21	0.00- 20.00	127.24	BA
4.080	4.080	0.000	445351	0.20000	0.20	0.00- 20.00	83.10	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.

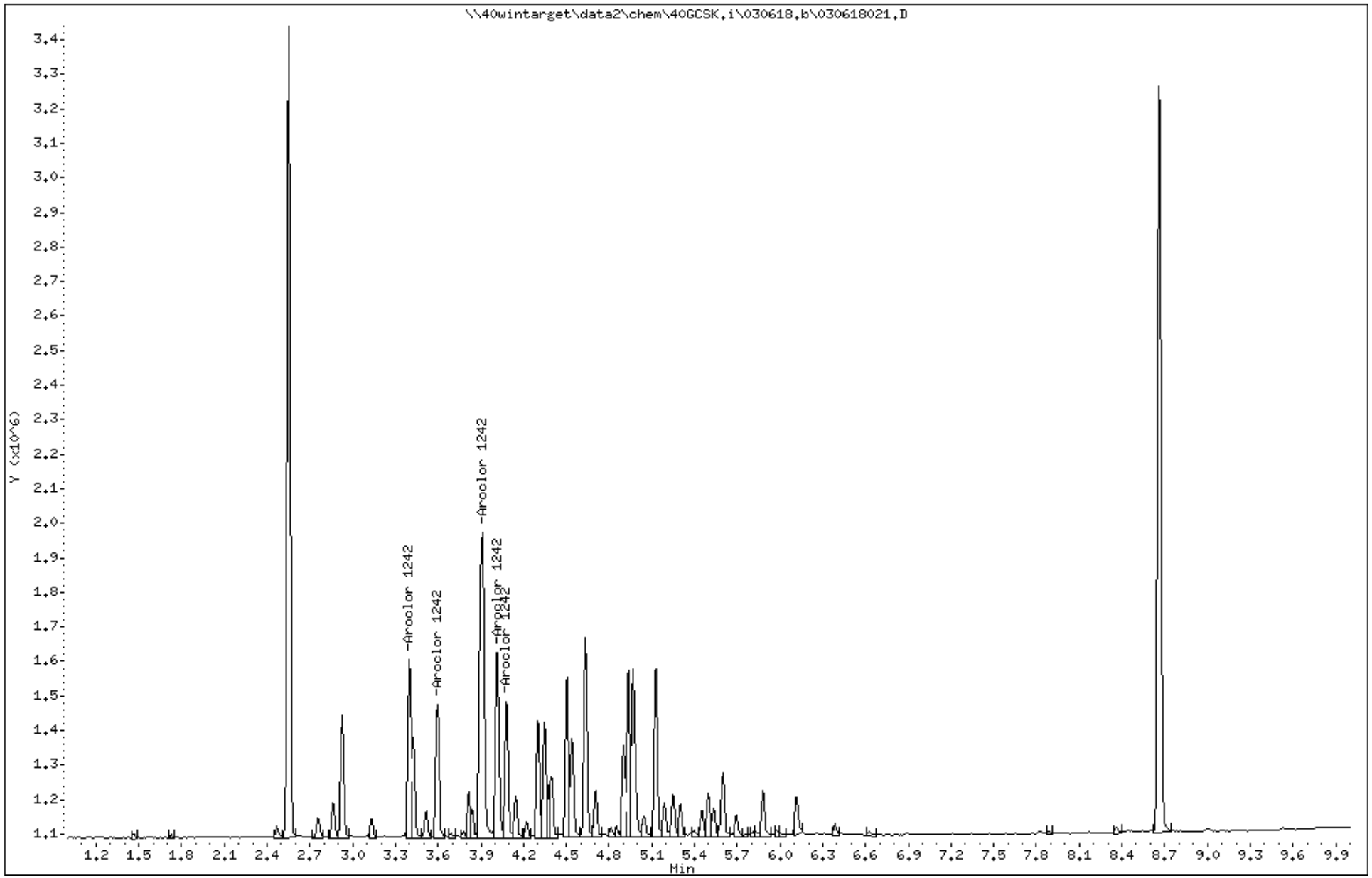
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618021.D
Date : 06-MAR-2018 13:44
Client ID: 1242-CAL2B
Sample Info: 1242-CAL2B, 185543:1

Instrument: 40GCSK.i

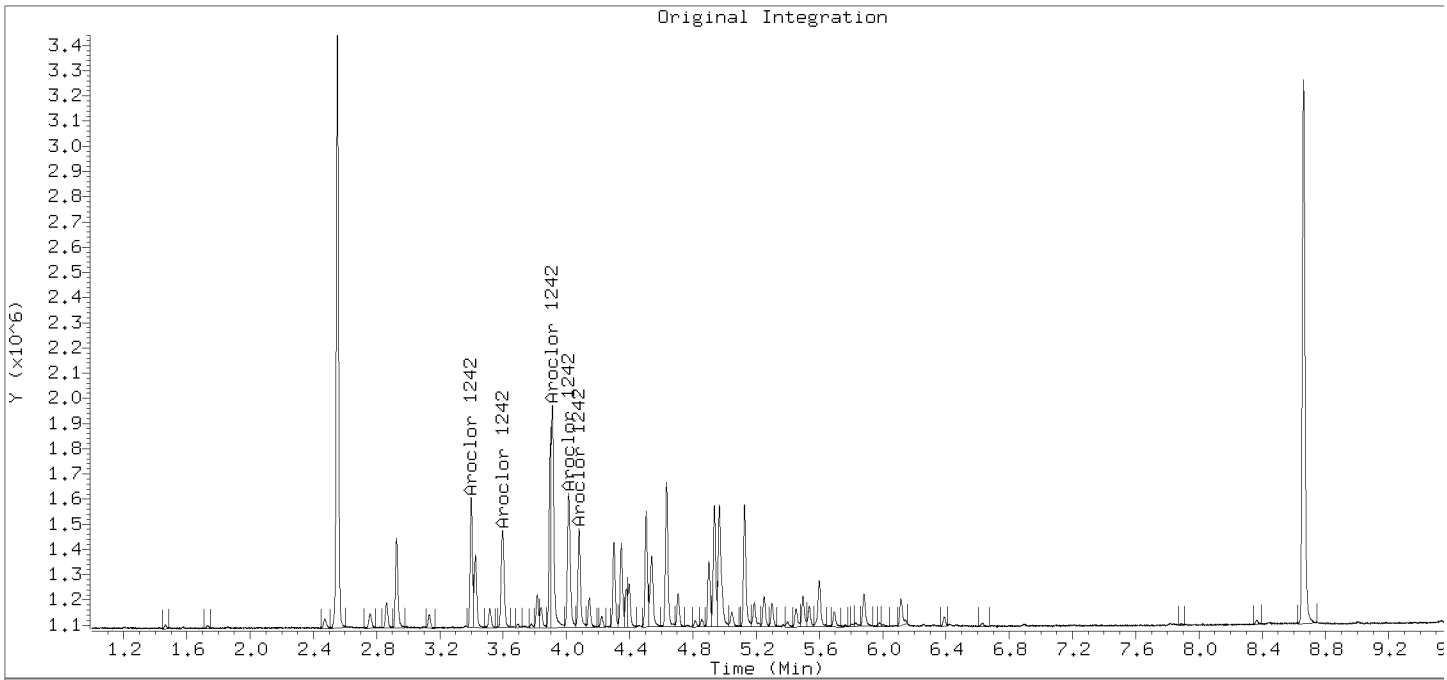
Operator: BLM

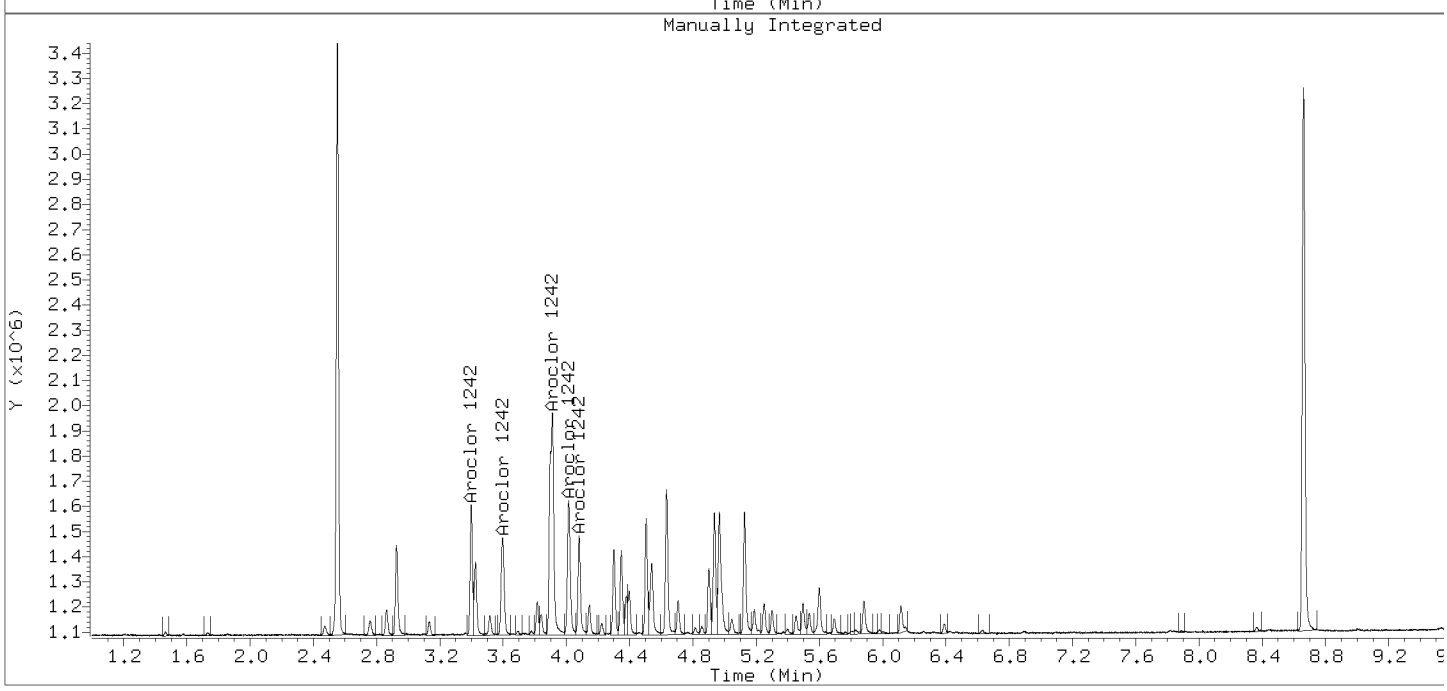
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618021.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 13:44 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL2B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	526431	535929	BA
Aroclor 1242	526431	535929	BA
Aroclor 1242	526431	535929	BA
Aroclor 1242	526431	535929	BA
Aroclor 1242	526431	535929	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618023.D
Lab Smp Id: 1242-CAL3B Client Smp ID: 1242-CAL3B
Inj Date : 06-MAR-2018 14:00
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17499,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:00 Cal File: 030618023.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.205	19673	18504	0.941	0.04		
1.468	35379	33081	0.935	0.08		
1.577	17538	15471	0.882	0.04		
1.732	20819	23798	1.143	0.05		
1.855	18895	15273	0.808	0.04		
2.471	121134	94401	0.779	0.29		
2.552	5822048	5811604	0.998	14.26		
2.759	173783	136220	0.784	0.42		
2.863	261246	244597	0.936	0.64		
2.926	928623	872312	0.939	2.27		
3.089	9831	7968	0.811	0.02		
3.133	131877	124937	0.947	0.32		
3.354	17364	15350	0.884	0.04		
3.398	1278977	1207800	0.944	3.13	3 Aroclor 1242	BA
3.425	771588	713736	0.925	1.89		
3.515	209479	181576	0.867	0.51		
3.596	1290335	936826	0.726	3.16	3 Aroclor 1242	BA
3.692	38492	35376	0.919	0.09		
3.778	33317	33977	1.020	0.08		
3.815	322654	309785	0.960	0.79		
3.840	226707	200525	0.885	0.55		
3.911	3788071	2145872	0.566	9.28	3 Aroclor 1242	BA
4.014	1615560	1288441	0.798	3.95	3 Aroclor 1242	BA
4.080	1079115	957413	0.887	2.64	3 Aroclor 1242	BA
4.145	334300	284947	0.852	0.81		
4.223	130768	108489	0.830	0.32		
4.301	884443	842112	0.952	2.16		
4.347	858101	802511	0.935	2.10		
4.379	361680	372279	1.029	0.88		
4.396	451702	419640	0.929	1.10		
4.504	1174470	1097754	0.935	2.87		
4.539	946658	699932	0.739	2.31		
4.633	1558510	1371510	0.880	3.81		
4.706	354233	315349	0.890	0.86		
4.766	30499	22508	0.738	0.07		
4.814	78227	64696	0.827	0.19		
4.856	87624	76685	0.875	0.21		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.901	714519	687647	0.962	1.75	
4.936	1254835	1174976	0.936	3.07	
4.967	1660531	1187147	0.715	4.06	
5.047	207834	143966	0.693	0.50	
5.127	1351880	1204657	0.891	3.31	
5.188	301548	225893	0.749	0.73	
5.251	335979	291190	0.867	0.82	
5.300	267260	220446	0.825	0.65	
5.397	61126	47763	0.781	0.14	
5.452	210970	176724	0.838	0.51	
5.497	368111	297412	0.808	0.90	
5.535	232813	202208	0.869	0.57	
5.600	583077	454735	0.780	1.42	
5.694	179065	152552	0.852	0.43	
5.764	25752	15332	0.595	0.06	
5.808	34206	28352	0.829	0.08	
5.831	49269	42359	0.860	0.12	
5.853	13683	20849	1.524	0.03	
5.881	417819	330112	0.790	1.02	
5.979	65105	39571	0.608	0.15	
6.115	400366	296898	0.742	0.98	
6.259	29080	22085	0.759	0.07	
6.313	30717	16569	0.539	0.07	
6.388	113815	94530	0.831	0.27	
6.422	28213	20261	0.718	0.06	
6.463	19662	14685	0.747	0.04	
6.628	43711	36219	0.829	0.10	
6.892	27169	20647	0.760	0.06	
7.098	14339	9639	0.672	0.03	
7.820	13489	14558	1.079	0.03	
8.365	51017	42662	0.836	0.12	
8.446	9876	8301	0.840	0.02	
8.661	6183882	5053477	0.817	15.52	
9.003	10860	10507	0.968	0.02	
9.175	9907	8152	0.823	0.02	
	40805200	34516336		100.000	

Total unknown % area = 78

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618023.D
Lab Smp Id: 1242-CAL3B Client Smp ID: 1242-CAL3B
Inj Date : 06-MAR-2018 14:00
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal3b, 185544:1
Misc Info : 17499,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:00 Cal File: 030618023.D
Als bottle: 14 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.397	3.398	-0.001	1278977	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.595	3.596	-0.001	1290334	0.50000	0.50	0.00- 20.00	100.89	BA
3.910	3.910	0.000	3788070	0.50000	0.50	0.00- 20.00	296.18	BA
4.014	4.013	0.001	1615560	0.50000	0.50	0.00- 20.00	126.32	BA
4.080	4.080	0.000	1079114	0.50000	0.50	0.00- 20.00	84.37	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\030618.b\030618023.D

Date : 06-MAR-2018 14:00

Client ID: 1242-CAL3B

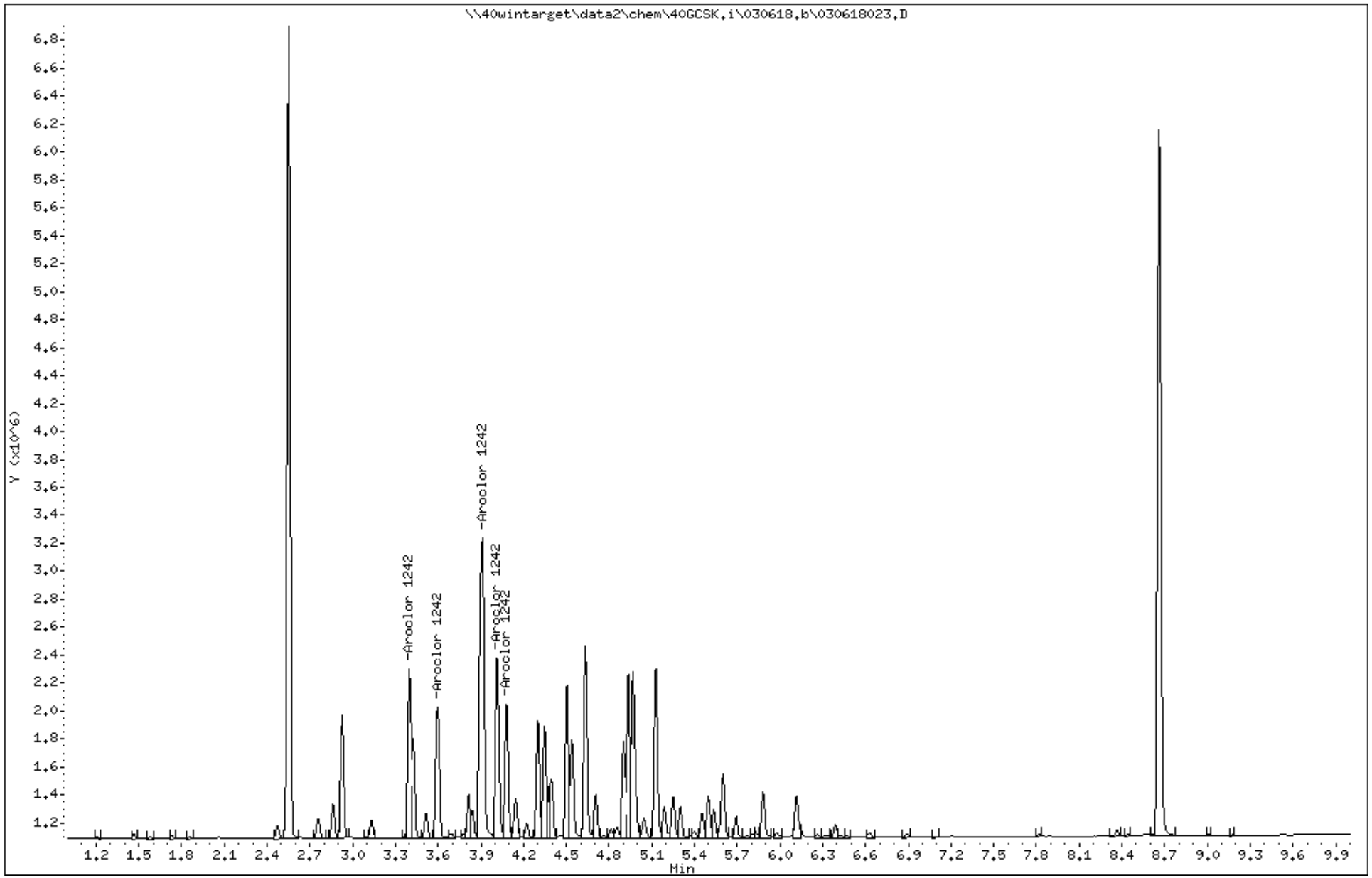
Instrument: 40GCSK.i

Sample Info: 1242-CAL3B, 185544:1

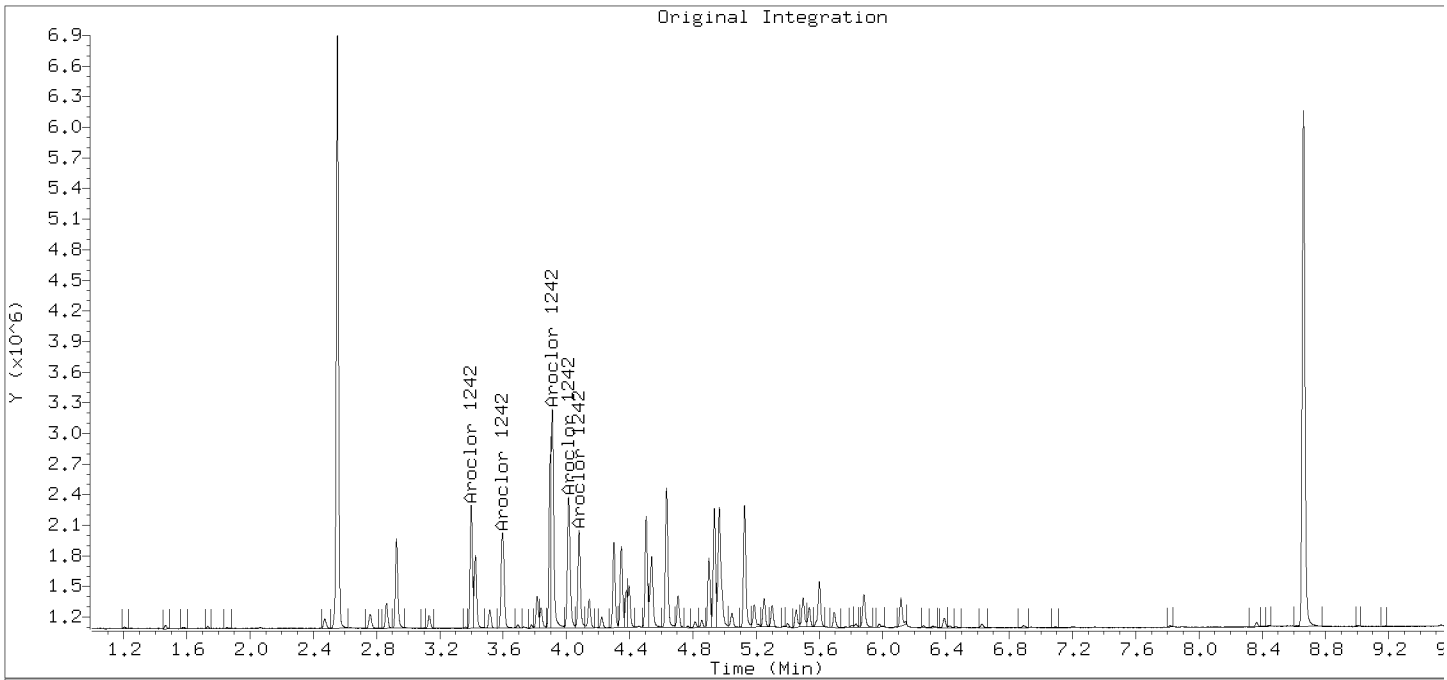
Operator: BLM

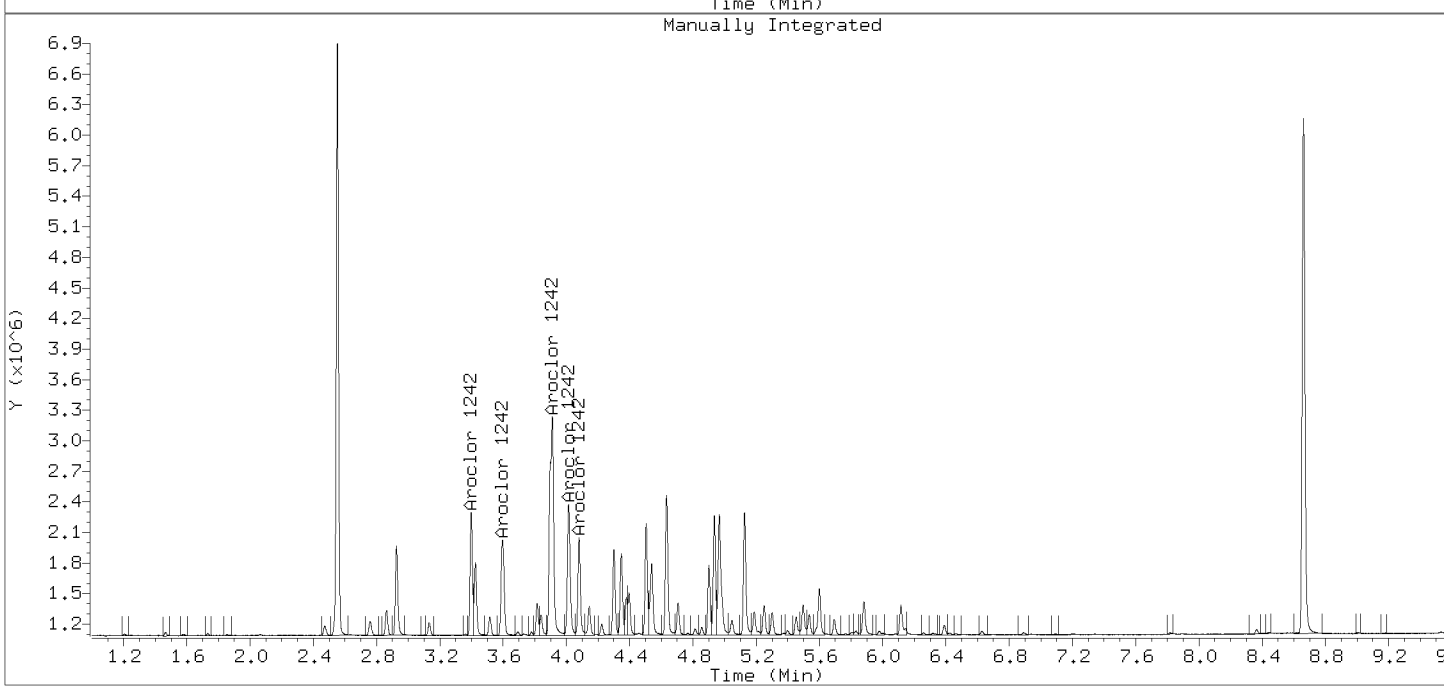
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618023.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:00 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL3B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1272863	1278977	BA
Aroclor 1242	1272863	1278977	BA
Aroclor 1242	1272863	1278977	BA
Aroclor 1242	1272863	1278977	BA
Aroclor 1242	1272863	1278977	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618025.D
Lab Smp Id: 1242-CAL4B Client Smp ID: 1242-CAL4B
Inj Date : 06-MAR-2018 14:16
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17499,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:16 Cal File: 030618025.D
Als bottle: 15 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.465	62313	60554	0.972	0.09		
1.578	26993	24335	0.902	0.04		
1.734	23919	16373	0.685	0.03		
1.857	22598	20053	0.887	0.03		
2.472	169262	136820	0.808	0.25		
2.551	11101247	11257883	1.014	16.93		
2.758	254203	201164	0.791	0.38		
2.862	421493	402502	0.955	0.64		
2.925	1402610	1284142	0.916	2.13		
3.132	209123	194987	0.932	0.31		
3.359	26803	22762	0.849	0.04		
3.397	1881321	1750609	0.931	2.87	3 Aroclor 1242	BA
3.425	1158001	1059090	0.915	1.76		
3.516	304222	274464	0.902	0.46		
3.595	1914725	1382856	0.722	2.92	3 Aroclor 1242	BA
3.694	67866	65763	0.969	0.10		
3.729	32470	20656	0.636	0.04		
3.779	52665	51805	0.984	0.08		
3.814	488841	488556	0.999	0.74		
3.840	328238	297424	0.906	0.50		
3.910	5683302	3259630	0.574	8.67	3 Aroclor 1242	BA
4.014	2410559	1921053	0.797	3.67	3 Aroclor 1242	BA
4.080	1619811	1452517	0.897	2.47	3 Aroclor 1242	BA
4.144	481375	430384	0.894	0.73		
4.222	179632	161755	0.900	0.27		
4.300	1307581	1211111	0.926	1.99		
4.347	1273490	1195323	0.939	1.94		
4.378	551916	561971	1.018	0.84		
4.396	682548	620810	0.910	1.04		
4.457	41622	27933	0.671	0.06		
4.504	1733612	1603982	0.925	2.64		
4.539	1435217	1020157	0.711	2.18		
4.633	2314621	2026083	0.875	3.53		
4.706	542588	491003	0.905	0.82		
4.766	36866	30768	0.835	0.05		
4.813	113138	92003	0.813	0.17		
4.855	126055	116675	0.926	0.19		

Data File: ...wintarget\data2\chem\40GCSK.i\030618.b\030618025.D Page 2
Report Date: 23-Mar-2018 13:21

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.901	1088344	1026616	0.943	1.66	
4.935	1890711	1704520	0.902	2.88	
4.966	2469176	1743520	0.706	3.76	
5.047	298078	215462	0.723	0.45	
5.126	2032697	1784205	0.878	3.10	
5.187	396626	340160	0.858	0.60	
5.250	503457	445904	0.886	0.76	
5.300	391905	332605	0.849	0.59	
5.372	30854	29429	0.954	0.04	
5.399	84830	66999	0.790	0.12	
5.452	317466	266172	0.838	0.48	
5.495	537617	463127	0.861	0.82	
5.535	349050	299740	0.859	0.53	
5.599	912842	698886	0.766	1.39	
5.694	268033	224107	0.836	0.40	
5.761	23675	16785	0.709	0.03	
5.807	51043	41030	0.804	0.07	
5.831	68221	60079	0.881	0.10	
5.881	633408	505883	0.799	0.96	
5.978	69060	57531	0.833	0.10	
6.082	16747	17805	1.063	0.02	
6.115	605448	454494	0.751	0.92	
6.256	37671	28917	0.768	0.05	
6.320	39750	19554	0.492	0.06	
6.388	165215	144325	0.874	0.25	
6.423	39408	33011	0.838	0.06	
6.466	23110	21840	0.945	0.03	
6.626	59853	53891	0.900	0.09	
6.889	36965	32555	0.881	0.05	
6.931	11949	10700	0.895	0.01	
7.093	11308	11138	0.985	0.01	
7.341	13408	13093	0.977	0.02	
7.818	34164	29330	0.858	0.05	
7.888	10746	11862	1.104	0.01	
8.364	93694	79845	0.852	0.14	
8.660	11411748	9631339	0.844	17.76	
9.174	12705	11080	0.872	0.01	
9.529	10379	10416	1.004	0.01	
9.891	11421	8133	0.712	0.01	
	65545631	56182044		100.000	

Total unknown % area = 79

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618025.D
Lab Smp Id: 1242-CAL4B Client Smp ID: 1242-CAL4B
Inj Date : 06-MAR-2018 14:16
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal4b, 185545:1
Misc Info : 17499,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:16 Cal File: 030618025.D
Als bottle: 15 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.397	3.398	-0.001	1881321	0.80000	0.74	0.00- 20.00	100.00(M)	BA
3.595	3.596	-0.001	1914724	0.80000	0.74	0.00- 20.00	101.78	BA
3.910	3.910	0.000	5683302	0.80000	0.74	0.00- 20.00	302.09	BA
4.014	4.013	0.001	2410558	0.80000	0.75	0.00- 20.00	128.13	BA
4.079	4.080	-0.001	1619811	0.80000	0.75	0.00- 20.00	86.10	BA
Average of Peak Amounts =					0.74400			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

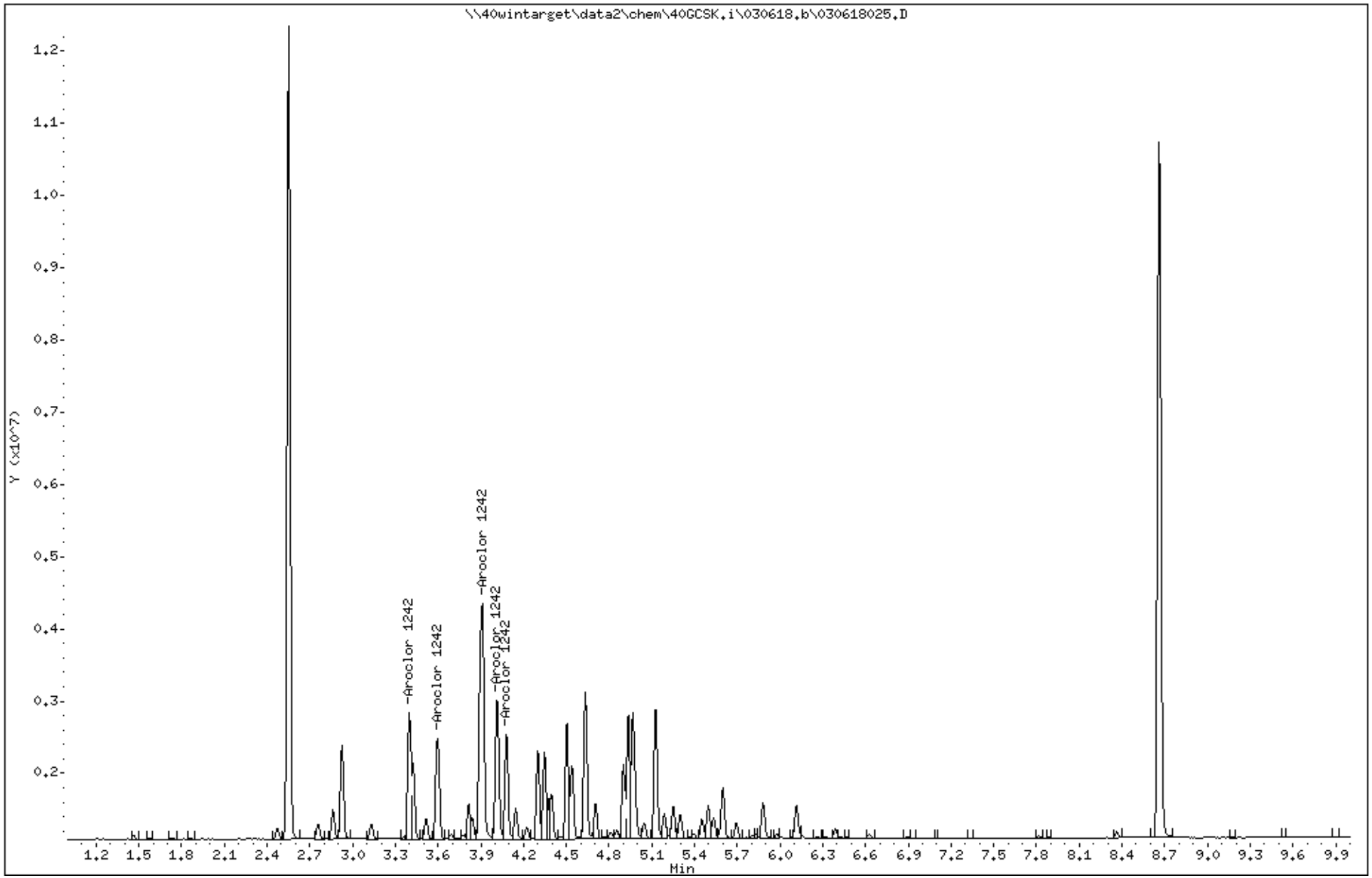
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618025.D
Date : 06-MAR-2018 14:16
Client ID: 1242-CAL4B
Sample Info: 1242-CAL4B, 185545:1

Instrument: 40GCSK.i

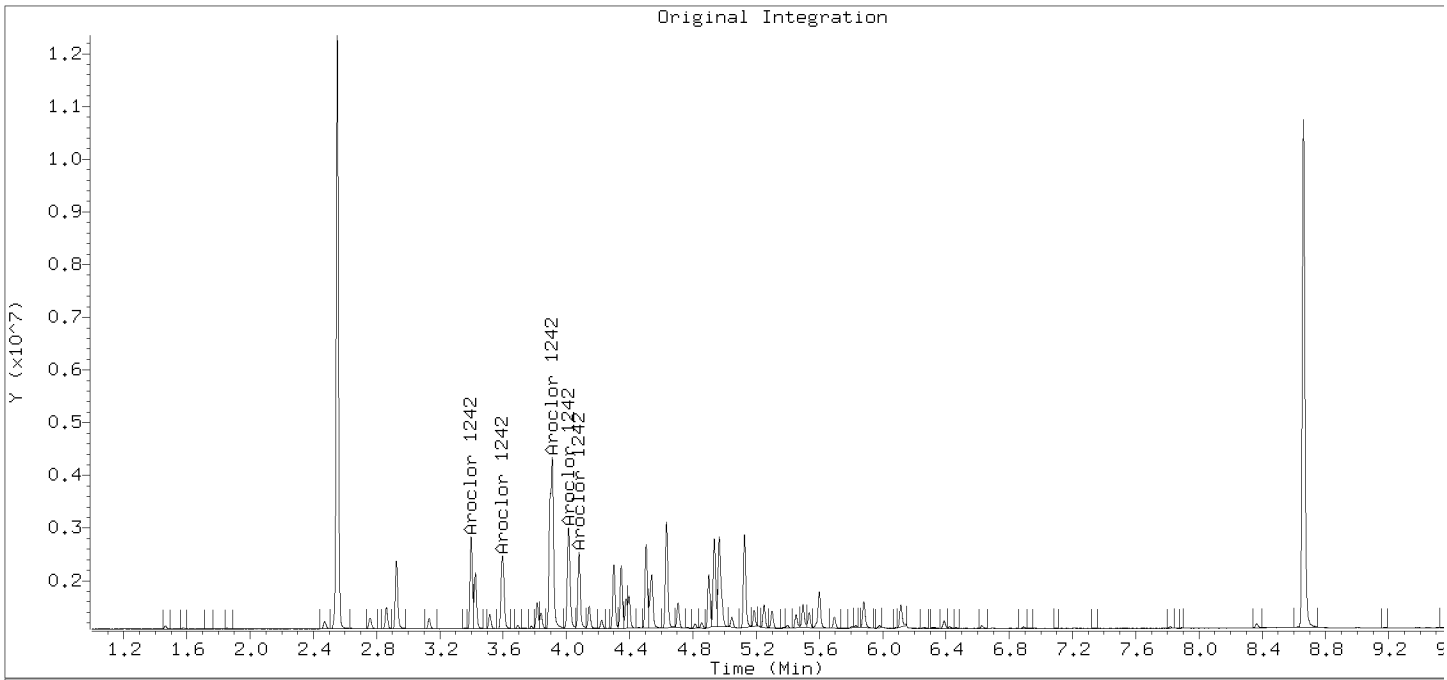
Operator: BLM

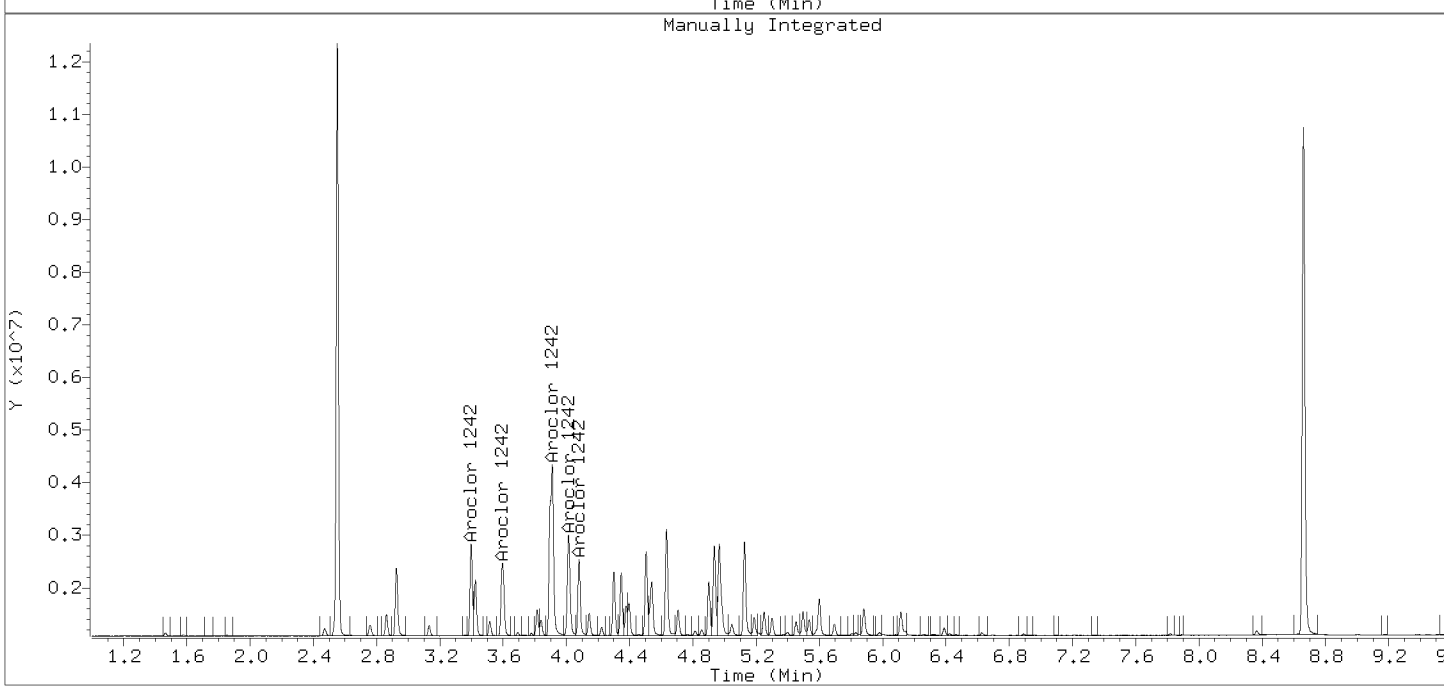
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618025.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:16 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL4B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1867762	1881321	BA
Aroclor 1242	1867762	1881321	BA
Aroclor 1242	1867762	1881321	BA
Aroclor 1242	1867762	1881321	BA
Aroclor 1242	1867762	1881321	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618027.D
Lab Smp Id: 1242-CAL5B Client Smp ID: 1242-CAL5B
Inj Date : 06-MAR-2018 14:32
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17499,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 14:32 Cal File: 030618027.D
Als bottle: 16 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.466	94877	90304	0.952	0.10		
1.582	40906	35332	0.864	0.04		
1.732	12497	12656	1.013	0.01		
1.854	25989	22546	0.868	0.02		
2.472	213886	173573	0.812	0.24		
2.552	16851378	16720202	0.992	19.05		
2.638	28008	17337	0.619	0.03		
2.758	312394	251946	0.807	0.35		
2.862	569359	540129	0.949	0.64		
2.925	1753552	1573133	0.897	1.98		
3.133	258898	242374	0.936	0.29		
3.360	37604	27808	0.740	0.04		
3.398	2317497	2177213	0.939	2.62	3 Aroclor 1242	BA
3.425	1452569	1277071	0.879	1.64		
3.516	394110	350673	0.890	0.44		
3.596	2378643	1714342	0.721	2.68	3 Aroclor 1242	BA
3.694	101317	96284	0.950	0.11		
3.729	38202	27095	0.709	0.04		
3.781	66954	63846	0.954	0.07		
3.815	619647	605898	0.978	0.70		
3.840	417867	383199	0.917	0.47		
3.911	7113608	4050915	0.569	8.04	3 Aroclor 1242	BA
4.014	3001773	2427600	0.809	3.39	3 Aroclor 1242	BA
4.080	2026606	1826685	0.901	2.29	3 Aroclor 1242	BA
4.145	612590	534733	0.873	0.69		
4.224	231121	204324	0.884	0.26		
4.300	1629354	1507871	0.925	1.84		
4.347	1584950	1476174	0.931	1.79		
4.379	672650	692309	1.029	0.76		
4.396	881543	780952	0.886	0.99		
4.459	61985	39019	0.629	0.07		
4.504	2149386	2012573	0.936	2.43		
4.539	1813242	1268193	0.699	2.05		
4.634	2897521	2533852	0.874	3.27		
4.706	685723	617502	0.901	0.77		
4.766	59523	37463	0.629	0.06		
4.814	140371	116674	0.831	0.15		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.856	165921	147769	0.891	0.18	
4.901	1374135	1290444	0.939	1.55	
4.936	2339697	2145840	0.917	2.64	
4.966	3104599	2198650	0.708	3.51	
5.046	396685	268401	0.677	0.44	
5.127	2562049	2277092	0.889	2.89	
5.188	569008	438169	0.770	0.64	
5.250	641986	552526	0.861	0.72	
5.300	504366	432310	0.857	0.57	
5.374	40250	36661	0.911	0.04	
5.398	115643	89548	0.774	0.13	
5.453	405116	331373	0.818	0.45	
5.496	682430	588259	0.862	0.77	
5.535	462102	383519	0.830	0.52	
5.599	1160797	879952	0.758	1.31	
5.695	329556	289929	0.880	0.37	
5.764	33685	23153	0.687	0.03	
5.807	65597	52071	0.794	0.07	
5.830	94100	77887	0.828	0.10	
5.881	837867	651239	0.777	0.94	
5.979	124114	74174	0.598	0.14	
6.083	27188	23687	0.871	0.03	
6.115	679970	587759	0.864	0.76	
6.142	146143	113600	0.777	0.16	
6.259	58926	40884	0.694	0.06	
6.316	52181	31058	0.595	0.05	
6.388	218618	182581	0.835	0.24	
6.421	54187	42460	0.784	0.06	
6.466	39196	29103	0.743	0.04	
6.627	91090	69398	0.762	0.10	
6.698	18835	12219	0.649	0.02	
6.892	45494	42195	0.927	0.05	
6.932	14021	11192	0.798	0.01	
7.094	21930	18437	0.841	0.02	
7.214	15675	11220	0.716	0.01	
7.338	14159	12595	0.890	0.01	
7.816	53129	42631	0.802	0.06	
7.892	26230	20101	0.766	0.02	
8.365	140805	116266	0.826	0.15	
8.466	12010	10531	0.877	0.01	
8.661	17134382	14524481	0.848	19.69	
9.177	27345	18378	0.672	0.03	
	88449317	75719542		100.000	

Total unknown % area = 81

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618027.D
Lab Smp Id: 1242-CAL5B Client Smp ID: 1242-CAL5B
Inj Date : 06-MAR-2018 14:32
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-cal5b, 185546:1
Misc Info : 17499,NSAR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 14:32 Cal File: 030618027.D
Als bottle: 16 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
3 Aroclor 1242					CAS #: 53469-21-9			
3.398	3.398	0.000	2317496	1.00000	0.91	0.00- 20.00	100.00(M)	BA
3.596	3.596	0.000	2378643	1.00000	0.93	0.00- 20.00	102.64	BA
3.911	3.910	0.001	7113608	1.00000	0.93	0.00- 20.00	306.95	BA
4.013	4.013	0.000	3001772	1.00000	0.93	0.00- 20.00	129.53	BA
4.079	4.080	-0.001	2026605	1.00000	0.93	0.00- 20.00	87.45	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\030618.b\030618027.D

Date : 06-MAR-2018 14:32

Client ID: 1242-CAL5B

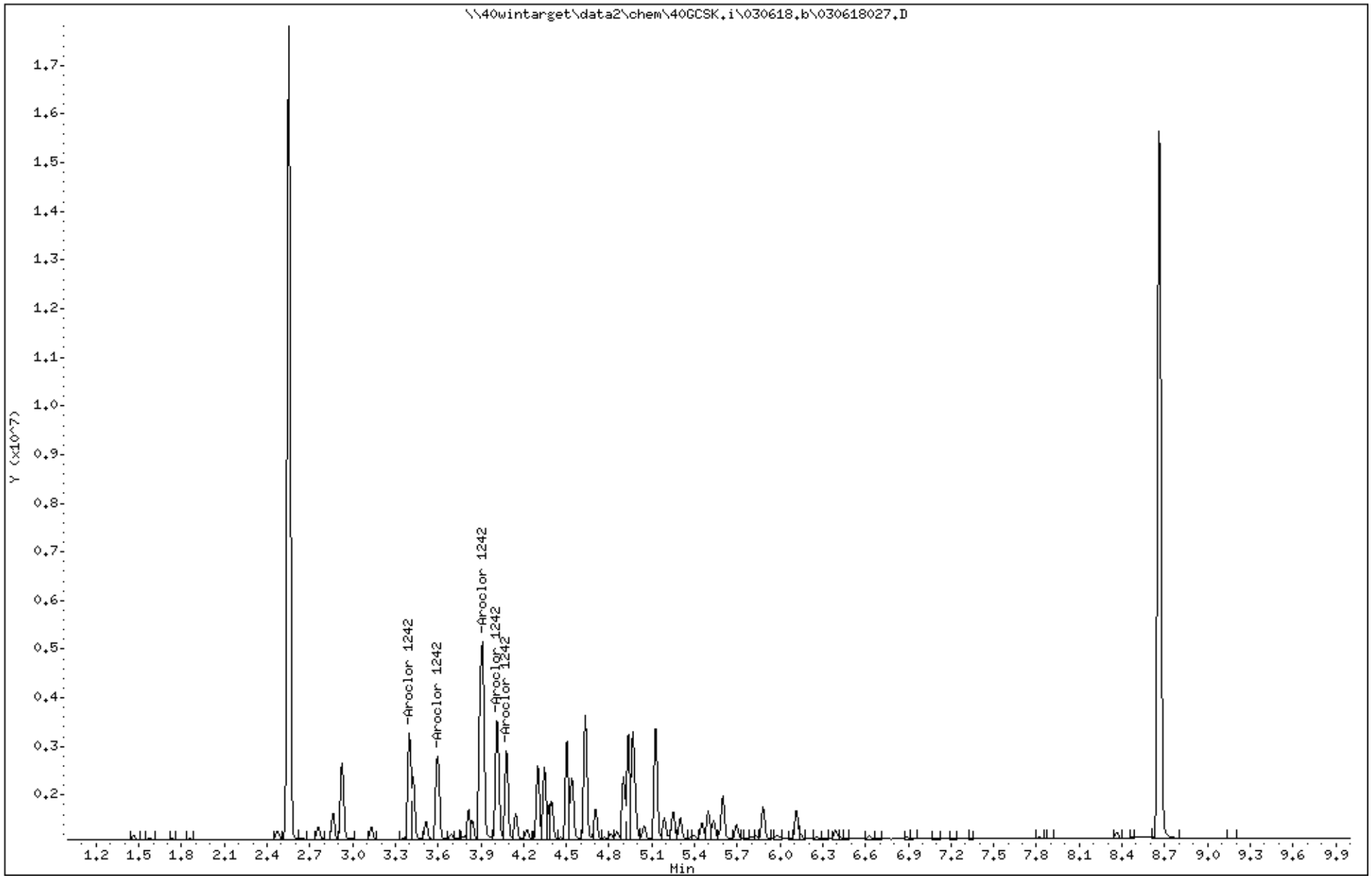
Instrument: 40GCSK.i

Sample Info: 1242-CAL5B, 185546:1

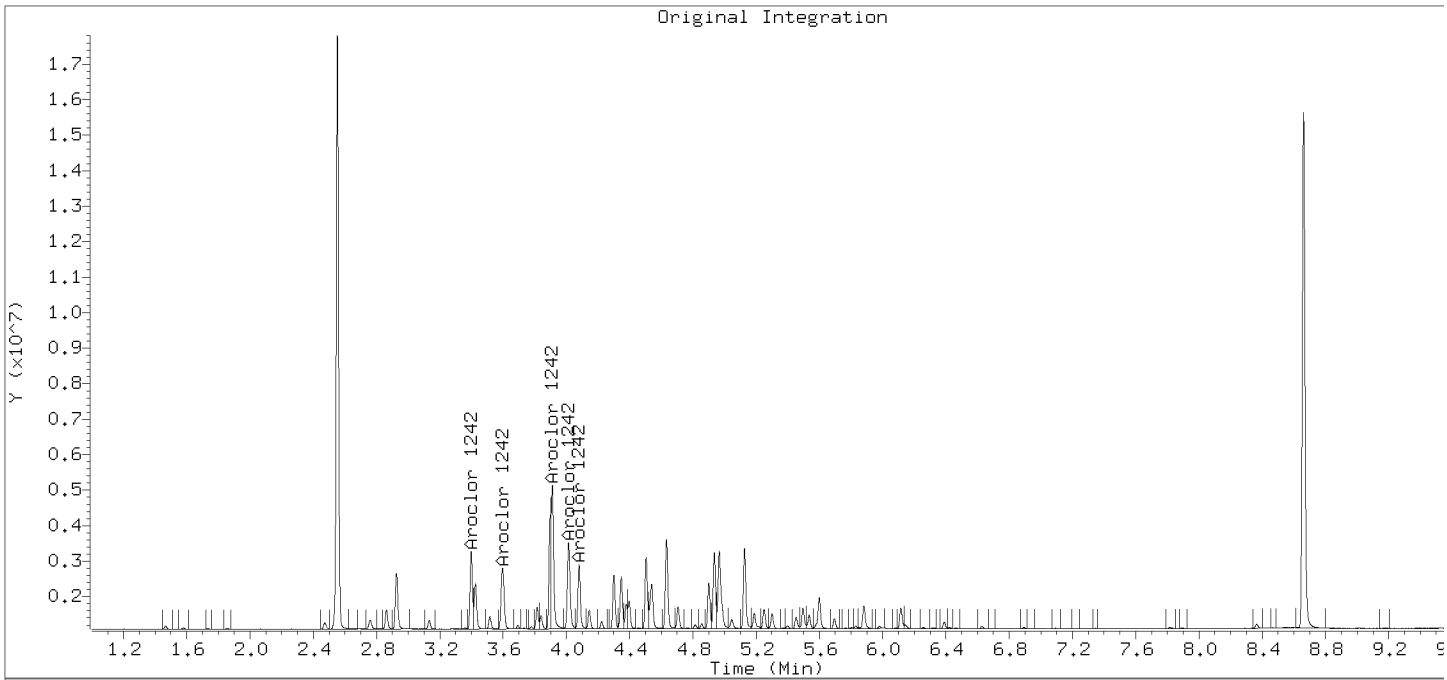
Operator: BLM

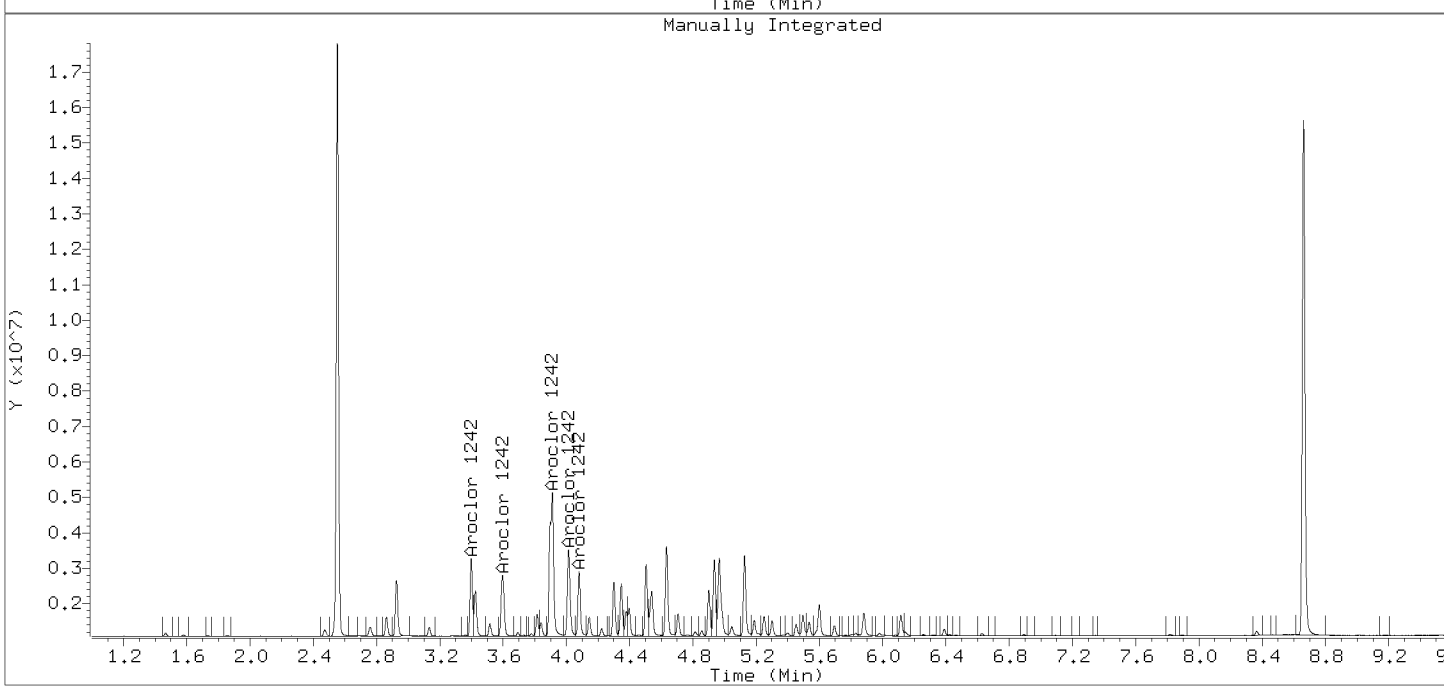
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618027.D (ManInt: NSAR1242.sub Orig: NSAR1242.sub)
Injection Date: 06-MAR-2018 14:32 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-CAL5B





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	2302445	2317496	BA
Aroclor 1242	2302445	2317496	BA
Aroclor 1242	2302445	2317496	BA
Aroclor 1242	2302445	2317496	BA
Aroclor 1242	2302445	2317496	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618031.D
Lab Smp Id: 1248-CAL1D Client Smp ID: 1248-CAL1D
Inj Date : 06-MAR-2018 15:04
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17499,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:04 Cal File: 030618031.D
Als bottle: 18 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
2.551	1235708	1269738	1.028	12.43		
2.859	27375	24321	0.888	0.27		
2.927	43904	35792	0.815	0.44		
3.131	12945	13834	1.069	0.13		
3.397	151956	145743	0.959	1.52		
3.425	63566	62549	0.984	0.63		
3.516	19398	14888	0.768	0.19		
3.597	132651	95326	0.719	1.33		
3.817	26455	25585	0.967	0.26		
3.899	440288	262983	0.597	4.42		
4.015	200281	145591	0.727	2.01		
4.080	136070	114906	0.844	1.36		
4.144	79390	72444	0.913	0.79		
4.221	33502	29881	0.892	0.33		
4.300	336206	317415	0.944	3.38		
4.347	268261	252178	0.940	2.69	6 Aroclor 1248	BA
4.379	109219	111642	1.022	1.09		
4.395	129414	115772	0.895	1.30		
4.505	402450	390424	0.970	4.04		
4.539	212163	176538	0.832	2.13		
4.633	485221	432497	0.891	4.88	6 Aroclor 1248	BA
4.707	114629	98286	0.857	1.15		
4.815	17004	15275	0.898	0.17		
4.854	27105	23557	0.869	0.27		
4.901	222154	209169	0.942	2.23	6 Aroclor 1248	BA
4.935	454113	415219	0.914	4.56		
4.966	608277	365819	0.601	6.11	6 Aroclor 1248	BA
5.045	81157	59823	0.737	0.81		
5.127	408574	354395	0.867	4.10	6 Aroclor 1248	BA
5.189	161229	123789	0.768	1.62		
5.249	185169	157601	0.851	1.86		
5.301	140581	113892	0.810	1.41		
5.397	31023	24631	0.794	0.31		
5.453	115050	94835	0.824	1.15		
5.496	181956	160262	0.881	1.83		
5.534	124123	99361	0.801	1.24		
5.599	315561	247565	0.785	3.17		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.695	93988	77152	0.821	0.94	
5.761	15713	12797	0.814	0.15	
5.828	22716	21138	0.931	0.22	
5.880	213721	157973	0.739	2.14	
5.977	33687	18695	0.555	0.33	
6.115	203697	134160	0.659	2.04	
6.259	23177	14958	0.645	0.23	
6.389	56071	46853	0.836	0.56	
6.597	10851	10800	0.995	0.10	
6.628	25583	18711	0.731	0.25	
6.892	10092	8746	0.867	0.10	
7.097	19470	15712	0.807	0.19	
8.363	17136	12896	0.753	0.17	
8.661	1441425	1216618	0.844	14.78	
9.530	19665	12295	0.625	0.19	
	9941119	8453030		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618031.D
Lab Smp Id: 1248-CAL1D Client Smp ID: 1248-CAL1D
Inj Date : 06-MAR-2018 15:04
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal1d, 188134:1
Misc Info : 17499,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:04 Cal File: 030618031.D
Als bottle: 18 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.347	4.347	0.000	268260	0.10000	0.11	0.00- 20.00	100.00(M)	BA
4.633	4.632	0.001	485220	0.10000	0.11	0.00- 20.00	180.88	BA
4.901	4.900	0.001	222154	0.10000	0.10	0.00- 20.00	82.81	BA
4.966	4.967	-0.001	608277	0.10000	0.11	0.00- 20.00	226.75	BA
5.127	5.127	0.000	408574	0.10000	0.10	0.00- 20.00	152.31	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.

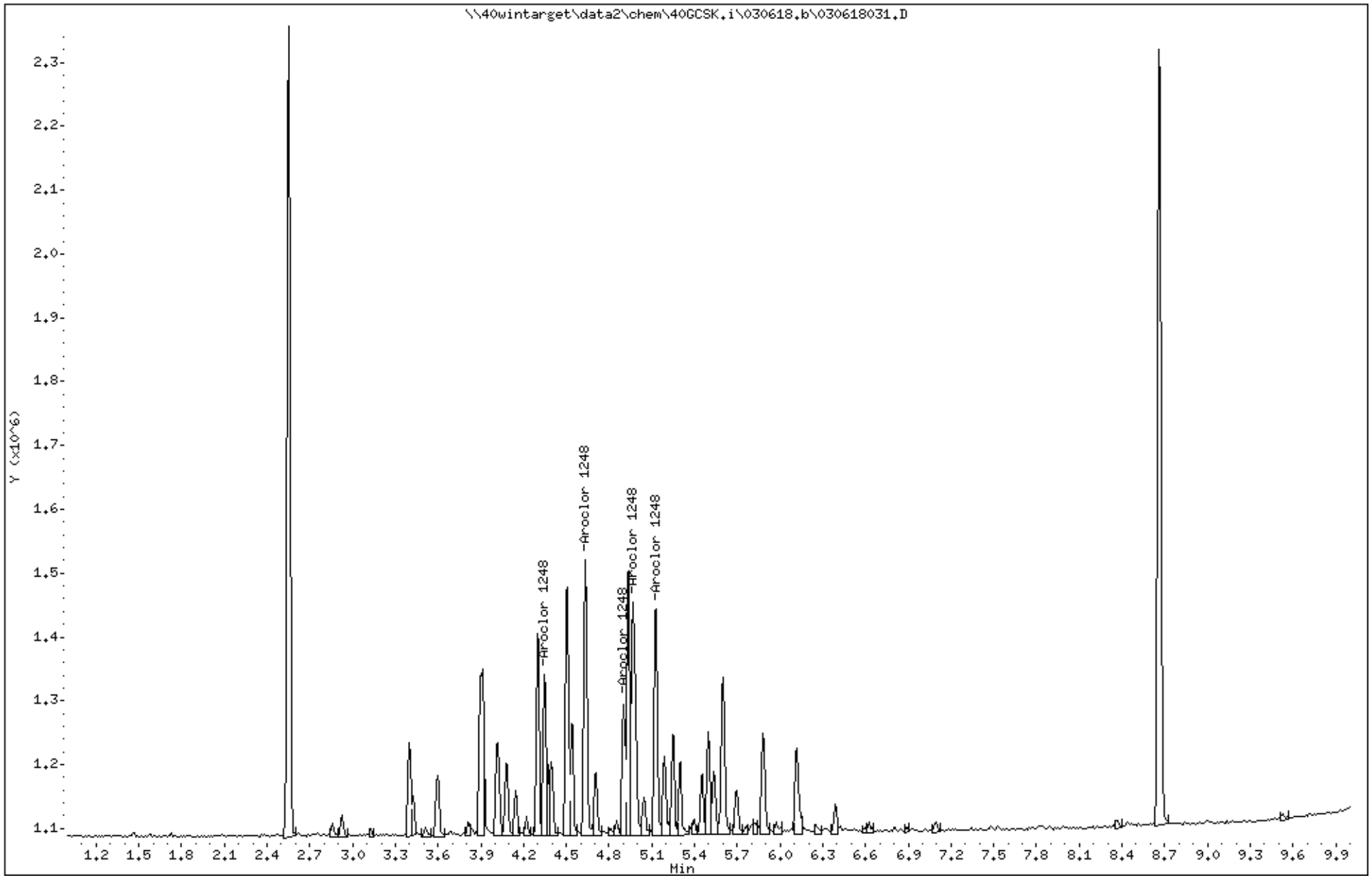
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618031.D
Date : 06-MAR-2018 15:04
Client ID: 1248-CAL1D
Sample Info: 1248-CAL1D, 188134:1

Instrument: 40GCSK.i

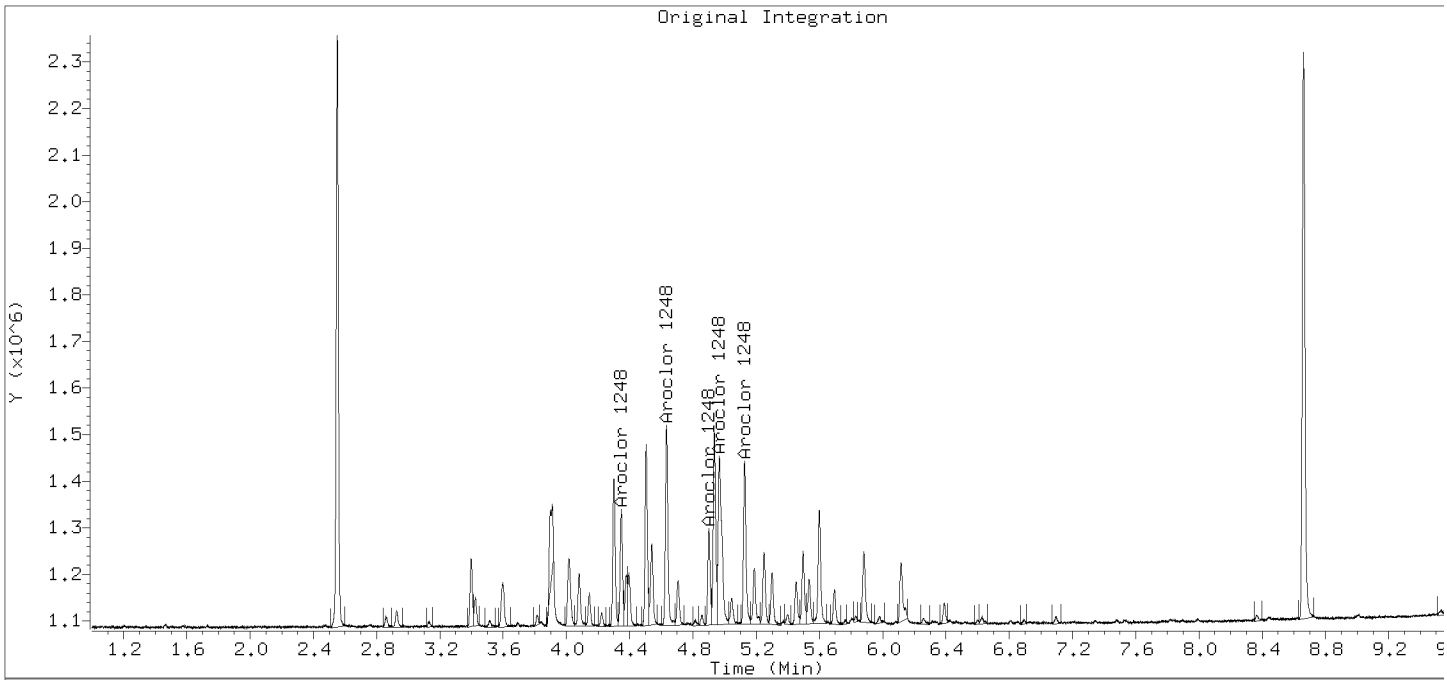
Operator: BLM

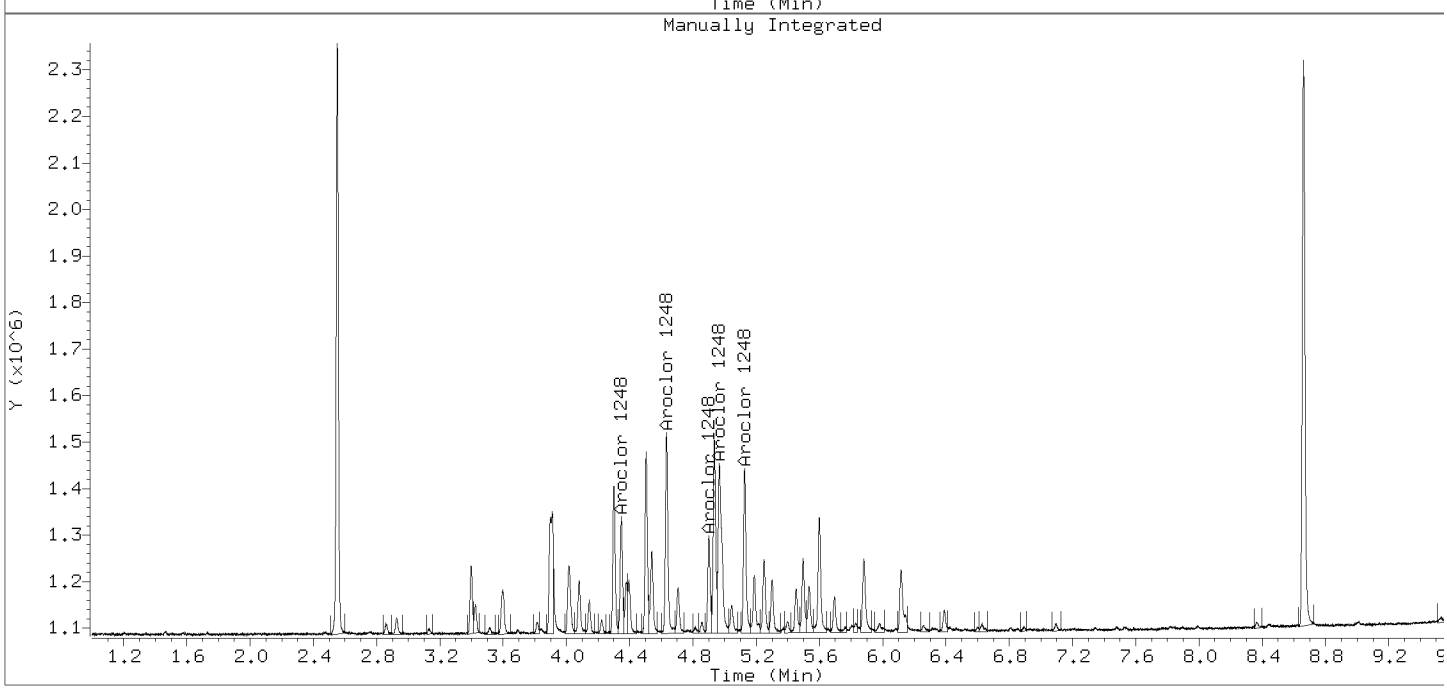
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618031.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 15:04 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL1D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	266459	268260	BA
Aroclor 1248	266459	268260	BA
Aroclor 1248	266459	268260	BA
Aroclor 1248	266459	268260	BA
Aroclor 1248	266459	268260	BA

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Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618033.D
Lab Smp Id: 1248-CAL2D Client Smp ID: 1248-CAL2D
Inj Date : 06-MAR-2018 15:21
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17499,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:21 Cal File: 030618033.D
Als bottle: 19 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.462	15124	15517	1.026	0.07		
2.467	12710	7619	0.599	0.06		
2.551	2383253	2393074	1.004	12.18		
2.759	23364	13536	0.579	0.11		
2.861	51569	45911	0.890	0.26		
2.925	82697	71178	0.861	0.42		
3.131	21469	22234	1.036	0.10		
3.397	293616	287677	0.980	1.50		
3.424	129924	121607	0.936	0.66		
3.518	32476	24212	0.746	0.16		
3.598	247811	180568	0.729	1.26		
3.690	14606	14581	0.998	0.07		
3.815	51619	53292	1.032	0.26		
3.836	26896	23512	0.874	0.13		
3.897	432853	505759	1.168	2.21		
3.910	594442	531123	0.893	3.04		
4.016	390953	281841	0.721	1.99		
4.079	255097	225909	0.886	1.30		
4.144	153928	143001	0.929	0.78		
4.223	62842	56143	0.893	0.32		
4.299	659410	624443	0.947	3.37		
4.346	523336	502710	0.961	2.67	6 Aroclor 1248	BA
4.378	203761	217604	1.068	1.04		
4.395	251772	218089	0.866	1.28		
4.504	792726	770786	0.972	4.05		
4.540	405832	341322	0.841	2.07		
4.633	946673	835001	0.882	4.84	6 Aroclor 1248	BA
4.706	219554	192169	0.875	1.12		
4.765	14435	11979	0.830	0.07		
4.815	29769	21600	0.726	0.15		
4.856	48897	44287	0.906	0.25		
4.900	441567	419131	0.949	2.25	6 Aroclor 1248	BA
4.935	890313	837894	0.941	4.55		
4.968	1182144	750547	0.635	6.04	6 Aroclor 1248	BA
5.046	159797	113114	0.708	0.81		
5.127	816566	710365	0.870	4.17	6 Aroclor 1248	BA
5.186	307149	233696	0.761	1.57		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.250	349013	299741	0.859	1.78	
5.300	257086	221776	0.863	1.31	
5.372	17878	18721	1.047	0.09	
5.397	58280	46650	0.800	0.29	
5.452	224340	184933	0.824	1.14	
5.496	350432	302721	0.864	1.79	
5.535	233606	192997	0.826	1.19	
5.599	607420	496449	0.817	3.10	
5.693	181269	151952	0.838	0.92	
5.763	26311	18691	0.710	0.13	
5.805	34733	30210	0.870	0.17	
5.829	49775	39550	0.795	0.25	
5.880	437317	318766	0.729	2.23	
5.978	64516	35543	0.551	0.32	
6.115	331941	276803	0.834	1.69	
6.143	84400	67895	0.804	0.43	
6.258	39866	27494	0.690	0.20	
6.389	108593	88731	0.817	0.55	
6.422	27417	19559	0.713	0.14	
6.464	18743	15013	0.801	0.09	
6.597	20540	18584	0.905	0.10	
6.625	49950	30540	0.611	0.25	
6.809	19882	16384	0.824	0.10	
6.889	18821	14901	0.792	0.09	
7.095	32707	31803	0.972	0.16	
7.341	12747	12035	0.944	0.06	
7.477	12869	14600	1.135	0.06	
7.993	13209	12933	0.979	0.06	
8.365	25618	22185	0.866	0.13	
8.439	9584	8178	0.853	0.04	
8.661	2598569	2124078	0.817	13.65	
9.003	25087	17869	0.712	0.12	
9.529	38728	25445	0.657	0.19	
	19552193	17066761		100.000	

Total unknown % area = 80

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Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618033.D
Lab Smp Id: 1248-CAL2D Client Smp ID: 1248-CAL2D
Inj Date : 06-MAR-2018 15:21
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal2d, 185548:1
Misc Info : 17499,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:21 Cal File: 030618033.D
Als bottle: 19 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.345	4.347	-0.002	523335	0.20000	0.21	0.00- 20.00	100.00(M)	BA
4.633	4.632	0.001	946672	0.20000	0.21	0.00- 20.00	180.89	BA
4.900	4.900	0.000	441567	0.20000	0.20	0.00- 20.00	84.38	BA
4.967	4.967	0.000	1182144	0.20000	0.21	0.00- 20.00	225.89	BA
5.126	5.127	-0.001	816565	0.20000	0.21	0.00- 20.00	156.03	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\030618.b\030618033.D

Date : 06-MAR-2018 15:21

Client ID: 1248-CAL2D

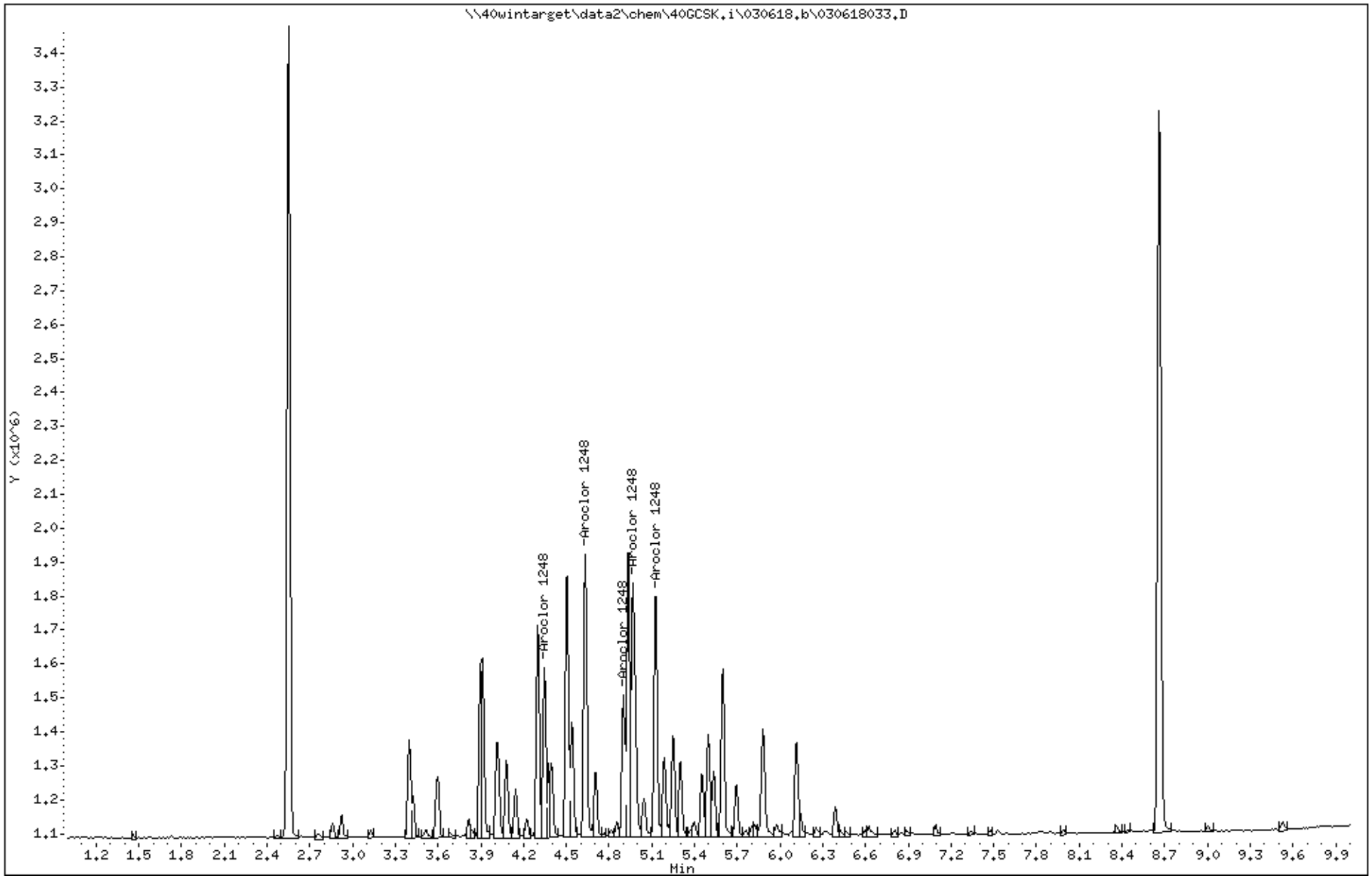
Instrument: 40GCSK.i

Sample Info: 1248-CAL2D, 185548:1

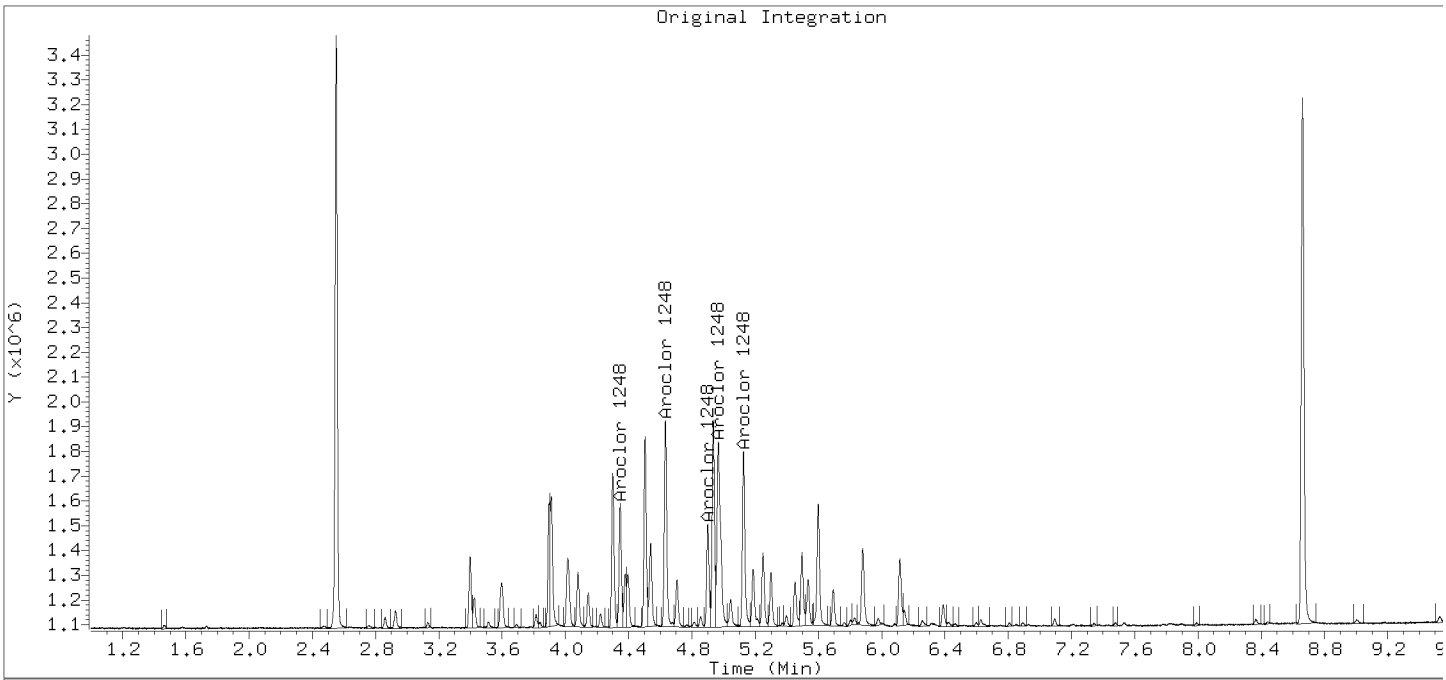
Operator: BLM

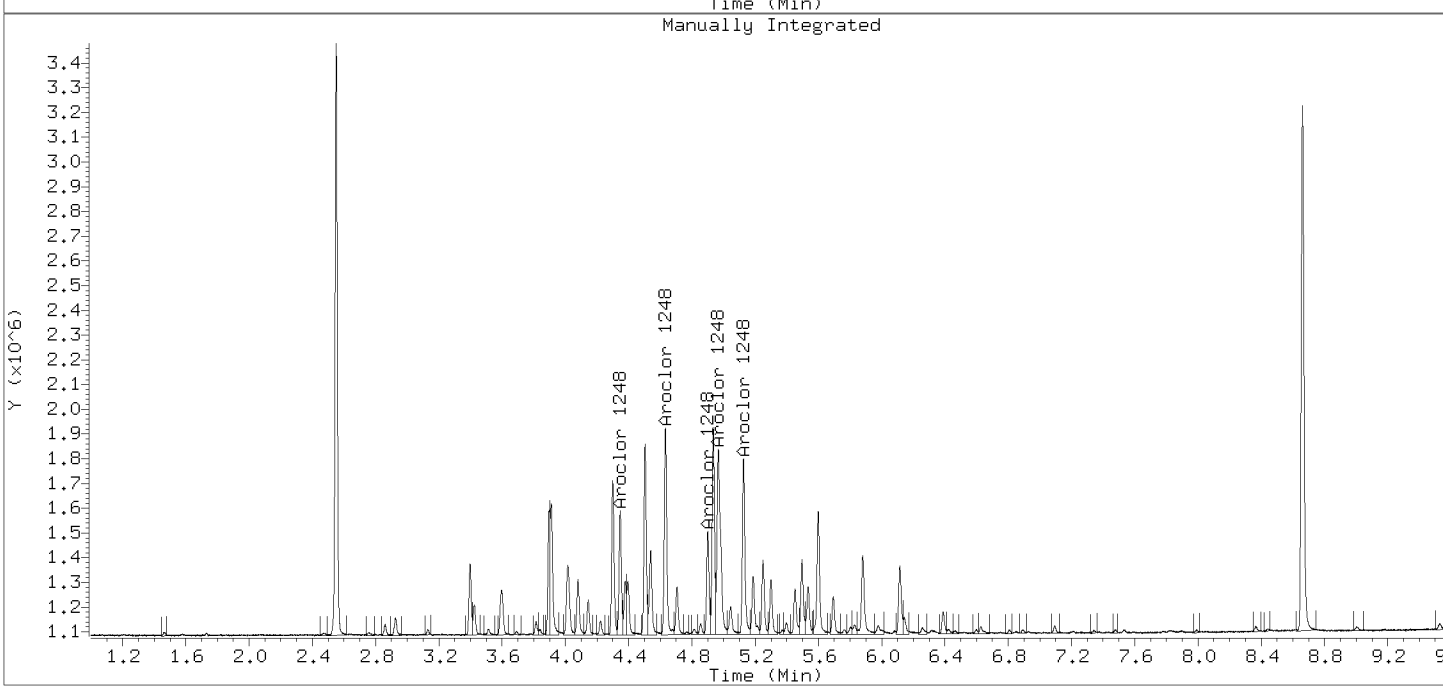
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618033.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 15:21 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL2D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	519085	523335	BA
Aroclor 1248	519085	523335	BA
Aroclor 1248	519085	523335	BA
Aroclor 1248	519085	523335	BA
Aroclor 1248	519085	523335	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618035.D
Lab Smp Id: 1248-CAL3D Client Smp ID: 1248-CAL3D
Inj Date : 06-MAR-2018 15:37
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17499,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:37 Cal File: 030618035.D
Als bottle: 20 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.205	42643	38054	0.892	0.08		
1.464	36141	36504	1.010	0.07		
1.578	14775	15278	1.034	0.03		
1.729	19115	20140	1.054	0.04		
2.061	30861	23828	0.772	0.06		
2.468	21878	16727	0.765	0.04		
2.551	5875371	5890409	1.003	12.38		
2.758	33693	25054	0.744	0.07		
2.861	112246	107326	0.956	0.23		
2.926	185659	168033	0.905	0.39		
3.092	18251	12275	0.673	0.03		
3.132	60158	54497	0.906	0.12		
3.397	715518	708234	0.990	1.50		
3.425	316144	286089	0.905	0.66		
3.516	62437	56807	0.910	0.13		
3.597	594865	455926	0.766	1.25		
3.692	32377	33152	1.024	0.06		
3.815	123791	124309	1.004	0.26		
3.841	73455	54233	0.738	0.15		
3.897	1086364	1230745	1.133	2.29		
3.910	1393507	1299115	0.932	2.93		
4.015	939391	712245	0.758	1.98		
4.080	633665	577548	0.911	1.33		
4.144	372442	335908	0.902	0.78		
4.222	145433	133164	0.916	0.30		
4.300	1542101	1448213	0.939	3.25		
4.346	1246476	1171392	0.940	2.62	6 Aroclor 1248	BA
4.378	524205	535389	1.021	1.10		
4.396	585714	526889	0.900	1.23		
4.504	1867221	1781136	0.954	3.93		
4.539	990214	816680	0.825	2.08		
4.633	2178207	1981695	0.910	4.59	6 Aroclor 1248	BA
4.678	47242	42284	0.895	0.09		
4.705	510611	463949	0.909	1.07		
4.768	35651	23591	0.662	0.07		
4.812	61276	47734	0.779	0.12		
4.855	115484	107013	0.927	0.24		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.901	1091823	1026129	0.940	2.30	6 Aroclor 1248
4.935	2120517	1952875	0.921	4.47	
4.966	2822529	1797128	0.637	5.95	6 Aroclor 1248
5.045	355268	268304	0.755	0.74	
5.126	1980078	1790516	0.904	4.17	6 Aroclor 1248
5.188	724208	563119	0.778	1.52	
5.249	841222	743946	0.884	1.77	
5.300	623396	538578	0.864	1.31	
5.372	43192	40833	0.945	0.09	
5.397	133185	110885	0.833	0.28	
5.452	529992	452231	0.853	1.11	
5.496	887942	760213	0.856	1.87	
5.535	550407	489929	0.890	1.16	
5.599	1504678	1199905	0.797	3.17	
5.694	429502	374934	0.873	0.90	
5.763	61342	47081	0.768	0.12	
5.804	81600	65691	0.805	0.17	
5.828	110963	93664	0.844	0.23	
5.850	35337	43175	1.222	0.07	
5.881	1035982	827588	0.799	2.18	
5.978	114558	86392	0.754	0.24	
6.000	57896	38623	0.667	0.12	
6.084	35941	30497	0.849	0.07	
6.114	856754	745279	0.870	1.80	
6.143	196088	152286	0.777	0.41	
6.256	94269	60286	0.640	0.19	
6.318	56545	33177	0.587	0.11	
6.389	259919	219977	0.846	0.54	
6.424	54268	44739	0.824	0.11	
6.466	44602	32916	0.738	0.09	
6.515	31540	20539	0.651	0.06	
6.600	45157	42748	0.947	0.09	
6.626	100898	71871	0.712	0.21	
6.807	42318	37480	0.886	0.08	
6.850	23863	19640	0.823	0.05	
6.892	50172	40041	0.798	0.10	
6.934	20818	15106	0.726	0.04	
7.092	82334	68721	0.835	0.17	
7.198	9829	9322	0.948	0.02	
7.341	22474	23926	1.065	0.04	
7.478	36428	29466	0.809	0.07	
7.533	36867	31053	0.842	0.07	
7.780	17227	12945	0.751	0.03	
7.819	22205	23007	1.036	0.04	
7.839	29867	19370	0.649	0.06	
7.889	18529	13687	0.739	0.03	
7.990	38756	29289	0.756	0.08	
8.365	65025	52336	0.805	0.13	
8.443	21895	16132	0.737	0.04	
8.661	6285363	5280241	0.840	13.68	
9.006	28542	19161	0.671	0.06	
9.531	21483	18049	0.840	0.04	
	47430175	41886591		100.000	

Total unknown % area = 80

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618035.D
Lab Smp Id: 1248-CAL3D Client Smp ID: 1248-CAL3D
Inj Date : 06-MAR-2018 15:37
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal3d, 185549:1
Misc Info : 17499,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:37 Cal File: 030618035.D
Als bottle: 20 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.346	4.347	-0.001	1246475	0.50000	0.50	0.00- 20.00	100.00(M)	BA
4.632	4.632	0.000	2178206	0.50000	0.49	0.00- 20.00	174.75	BA
4.900	4.900	0.000	1091823	0.50000	0.51	0.00- 20.00	87.59	BA
4.966	4.967	-0.001	2822528	0.50000	0.50	0.00- 20.00	226.44	BA
5.126	5.127	-0.001	1980078	0.50000	0.50	0.00- 20.00	158.85	BA
Average of Peak Amounts =					0.50000			

QC Flag Legend

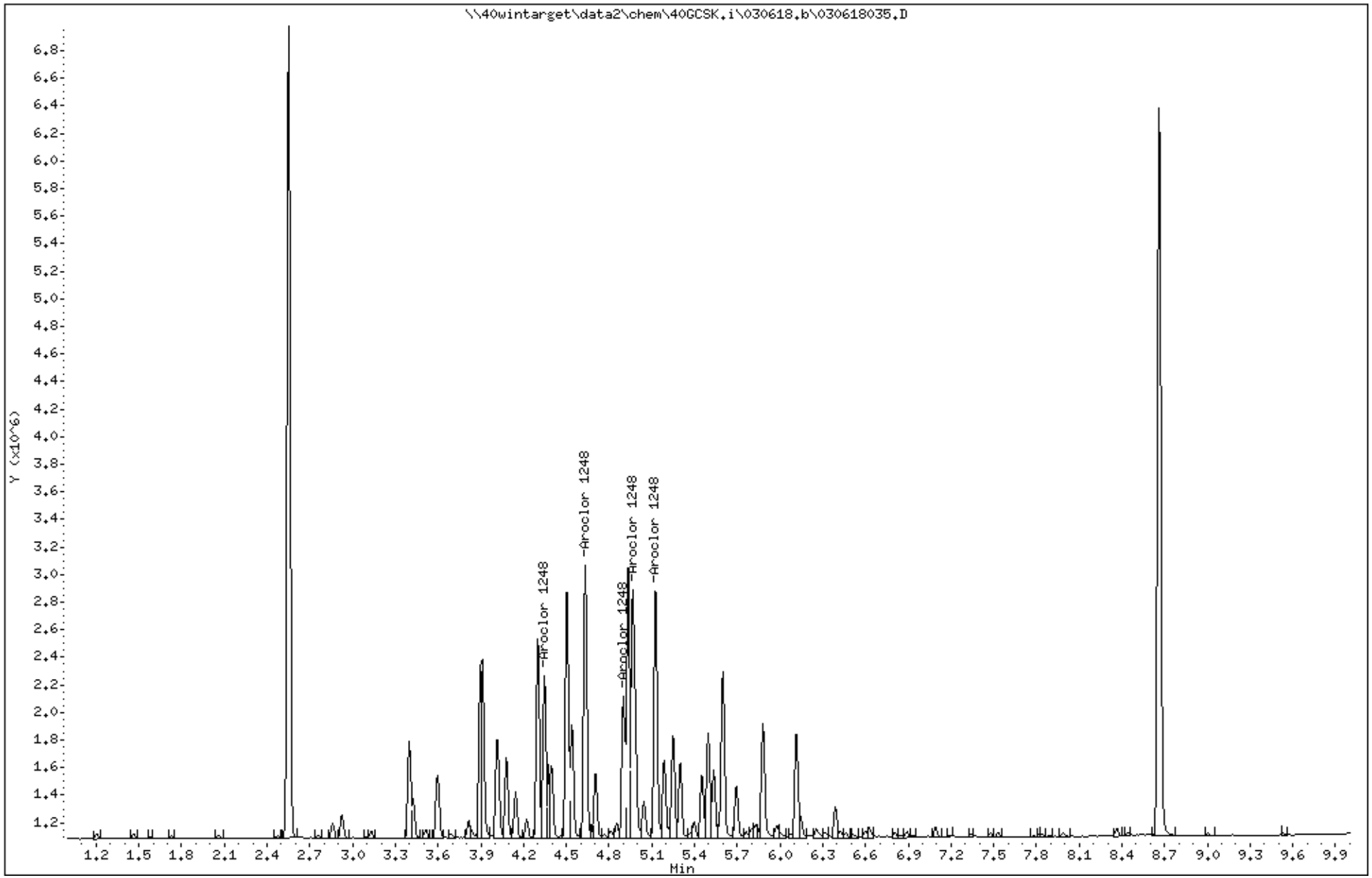
M - Compound response manually integrated.

Review Codes Legend

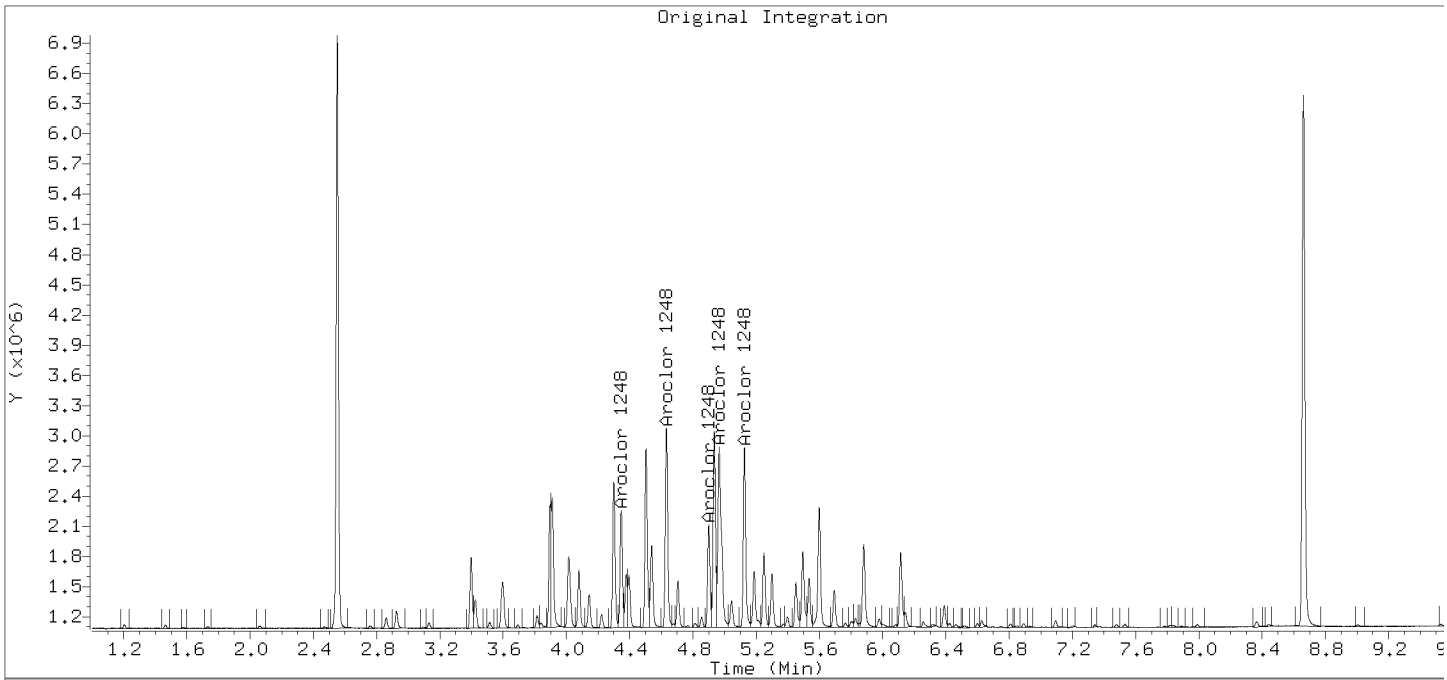
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

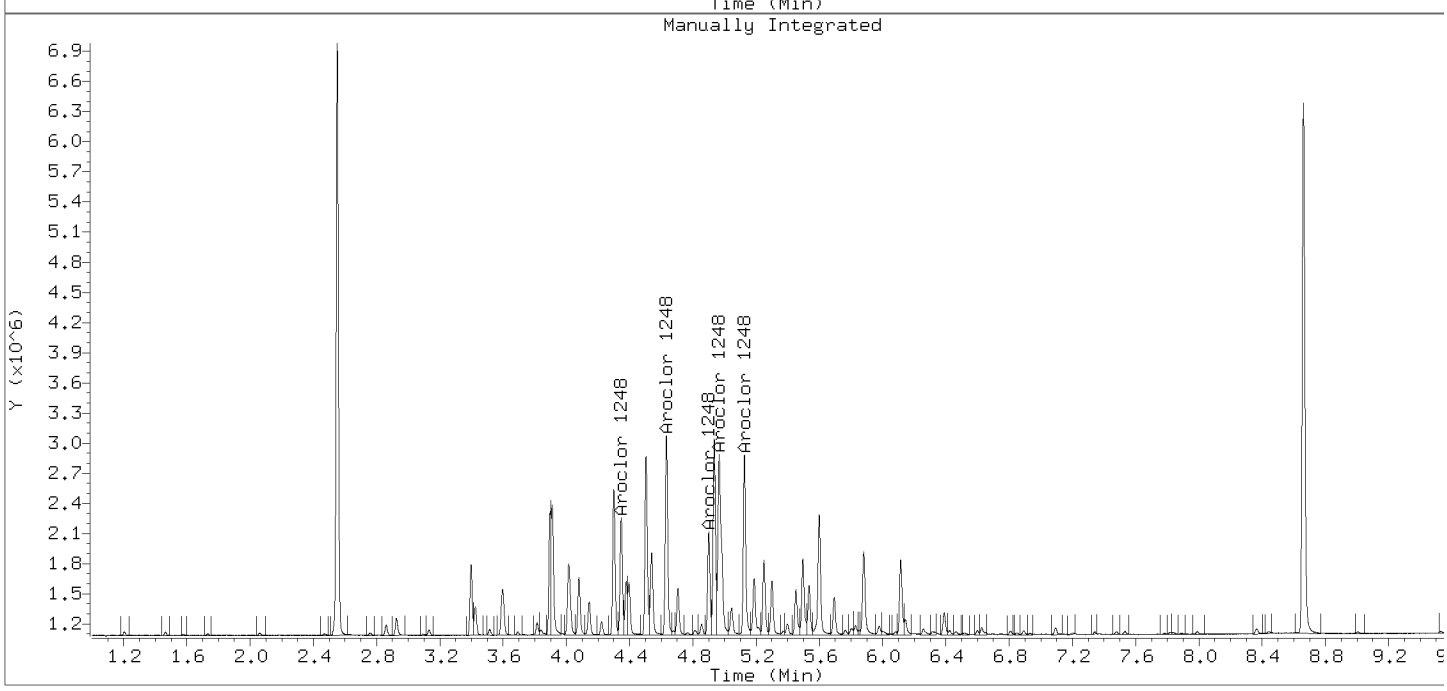
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618035.D
Date : 06-MAR-2018 15:37
Client ID: 1248-CAL3D
Sample Info: 1248-CAL3D, 185549:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618035.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 15:37 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL3D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1228199	1246475	BA
Aroclor 1248	1228199	1246475	BA
Aroclor 1248	1228199	1246475	BA
Aroclor 1248	1228199	1246475	BA
Aroclor 1248	1228199	1246475	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618037.D
Lab Smp Id: 1248-CAL4D Client Smp ID: 1248-CAL4D
Inj Date : 06-MAR-2018 15:53
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17499,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 15:53 Cal File: 030618037.D
Als bottle: 21 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.466	64226	63073	0.982	0.08		
1.578	27002	26014	0.963	0.03		
1.733	14101	14026	0.995	0.01		
2.470	36909	27317	0.740	0.04		
2.551	11512250	11560760	1.004	15.04		
2.638	15014	11145	0.742	0.01		
2.761	43429	33469	0.771	0.05		
2.860	200264	191358	0.956	0.26		
2.926	284270	253288	0.891	0.37		
3.131	93727	86463	0.923	0.12		
3.398	1082625	1050804	0.971	1.41		
3.424	482821	453320	0.939	0.63		
3.515	95640	91320	0.955	0.12		
3.598	925217	674037	0.729	1.20		
3.693	59773	62079	1.039	0.07		
3.782	13259	11624	0.877	0.01		
3.815	196250	191107	0.974	0.25		
3.839	98298	83185	0.846	0.12		
3.897	1638829	1841592	1.124	2.14		
3.910	2144882	1941597	0.905	2.80		
4.015	1442008	1069474	0.742	1.88		
4.080	966862	871899	0.902	1.26		
4.145	555946	501523	0.902	0.72		
4.222	228586	207729	0.909	0.29		
4.300	2307857	2140208	0.927	3.01		
4.347	1857778	1722638	0.927	2.42	6 Aroclor 1248	BA
4.378	793452	810317	1.021	1.03		
4.395	878795	793064	0.902	1.14		
4.504	2816192	2626246	0.933	3.67		
4.540	1517590	1217723	0.802	1.98		
4.633	3372230	2930105	0.869	4.40	6 Aroclor 1248	BA
4.705	799756	709410	0.887	1.04		
4.769	55817	34525	0.619	0.07		
4.814	98808	80415	0.814	0.12		
4.855	178542	164681	0.922	0.23		
4.900	1658282	1558474	0.940	2.16	6 Aroclor 1248	BA
4.935	3225935	3006818	0.932	4.21		

Data File: ...wintarget\data2\chem\40GCSK.i\030618.b\030618037.D Page 2
Report Date: 23-Mar-2018 13:21

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.967	4232480	2778944	0.657	5.52	6 Aroclor 1248
5.045	562644	410108	0.729	0.73	
5.126	3025457	2658515	0.879	3.95	6 Aroclor 1248
5.188	991917	863251	0.870	1.29	
5.215	111254	119130	1.071	0.14	
5.250	1275692	1124113	0.881	1.66	
5.300	953302	816360	0.856	1.24	
5.374	68582	61325	0.894	0.08	
5.399	205826	168186	0.817	0.26	
5.452	800038	703340	0.879	1.04	
5.495	1360084	1153424	0.848	1.77	
5.535	856202	743934	0.869	1.11	
5.599	2261553	1805625	0.798	2.95	
5.695	650907	568784	0.874	0.85	
5.763	82287	65730	0.799	0.10	
5.804	126268	100300	0.794	0.16	
5.830	171658	138710	0.808	0.22	
5.853	47887	65286	1.363	0.06	
5.880	1577462	1236397	0.784	2.06	
5.978	212937	129185	0.607	0.27	
6.083	53147	44709	0.841	0.06	
6.115	1313446	1127908	0.859	1.71	
6.142	314463	228683	0.727	0.41	
6.258	133536	87865	0.658	0.17	
6.317	89877	47262	0.526	0.11	
6.389	396276	329095	0.830	0.51	
6.422	78184	64290	0.822	0.10	
6.464	64925	48044	0.740	0.08	
6.523	25632	17679	0.690	0.03	
6.599	63765	59345	0.931	0.08	
6.627	154604	109143	0.706	0.20	
6.694	20447	14858	0.727	0.02	
6.750	14500	13909	0.959	0.01	
6.809	61185	53851	0.880	0.07	
6.848	33344	28490	0.854	0.04	
6.892	70330	57965	0.824	0.09	
6.931	26181	23675	0.904	0.03	
6.953	12752	11004	0.863	0.01	
7.094	131653	105736	0.803	0.17	
7.342	36854	36842	1.000	0.04	
7.478	50558	45251	0.895	0.06	
7.532	57371	49217	0.858	0.07	
7.779	21059	20813	0.988	0.02	
7.816	55695	39295	0.706	0.07	
7.889	29073	19254	0.662	0.03	
7.988	53749	37153	0.691	0.07	
8.365	116028	92335	0.796	0.15	
8.661	11683499	9759308	0.835	15.72	
9.175	19569	12725	0.650	0.02	
	76539366	67409178		100.000	

Total unknown % area = 82

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618037.D
Lab Smp Id: 1248-CAL4D Client Smp ID: 1248-CAL4D
Inj Date : 06-MAR-2018 15:53
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal4d, 185550:1
Misc Info : 17499,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 15:53 Cal File: 030618037.D
Als bottle: 21 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.346	4.347	-0.001	1857778	0.80000	0.75	0.00- 20.00	100.00(M)	BA
4.632	4.632	0.000	3372230	0.80000	0.76	0.00- 20.00	181.52	BA
4.900	4.900	0.000	1658282	0.80000	0.77	0.00- 20.00	89.26	BA
4.966	4.967	-0.001	4232479	0.80000	0.75	0.00- 20.00	227.82	BA
5.126	5.127	-0.001	3025457	0.80000	0.77	0.00- 20.00	162.85	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.

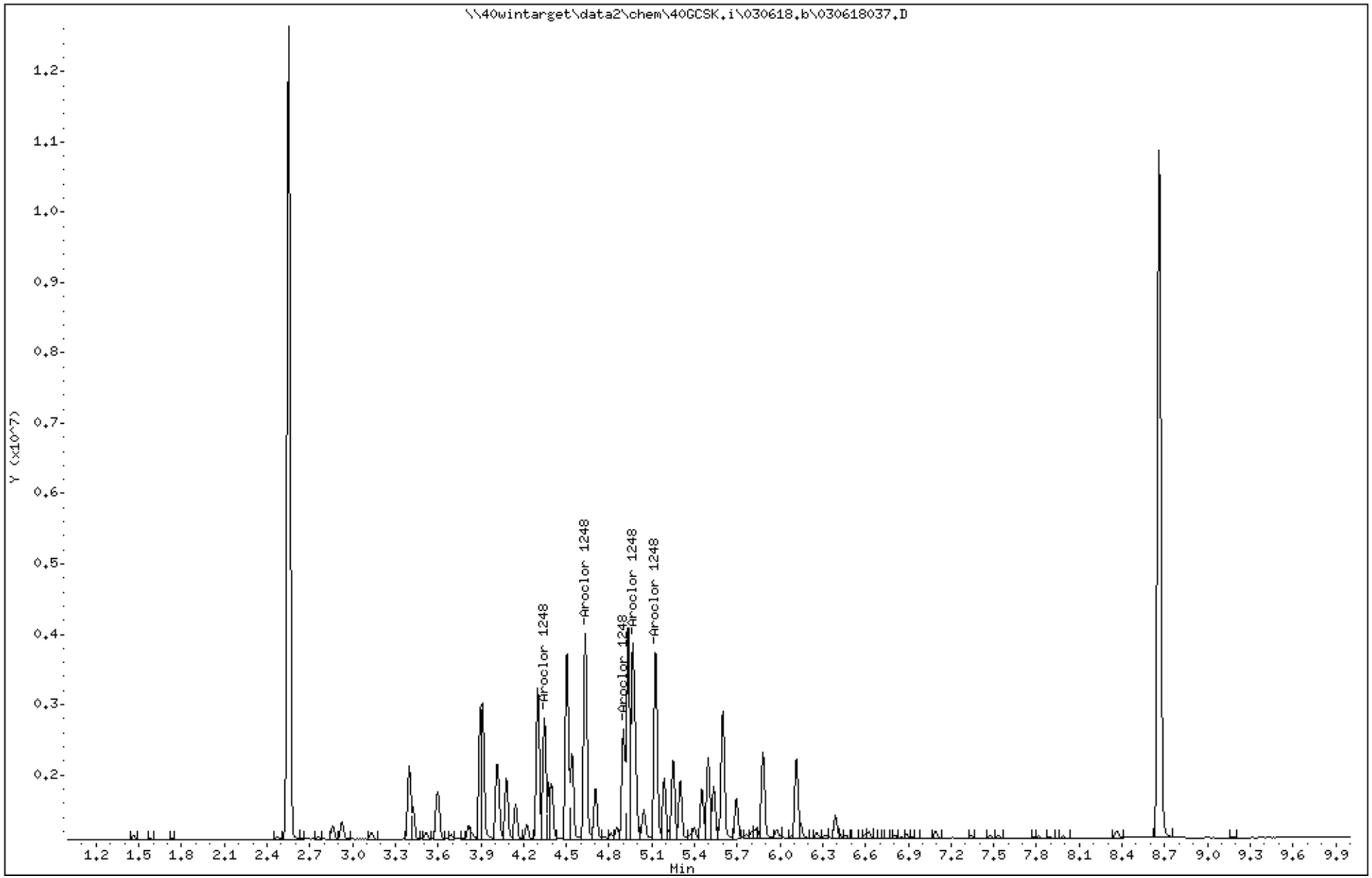
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618037.D
Date : 06-MAR-2018 15:53
Client ID: 1248-CAL4D
Sample Info: 1248-CAL4D, 185550:1

Instrument: 40GCSK.i

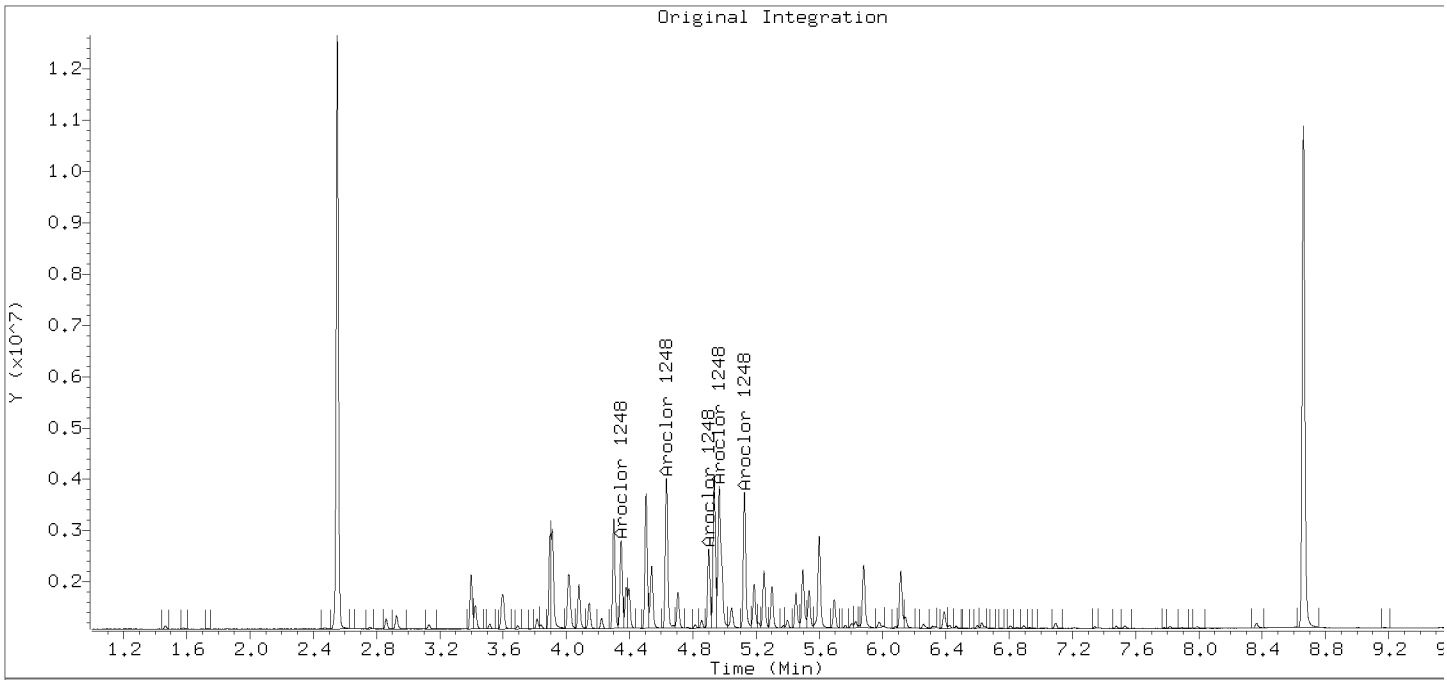
Operator: BLM

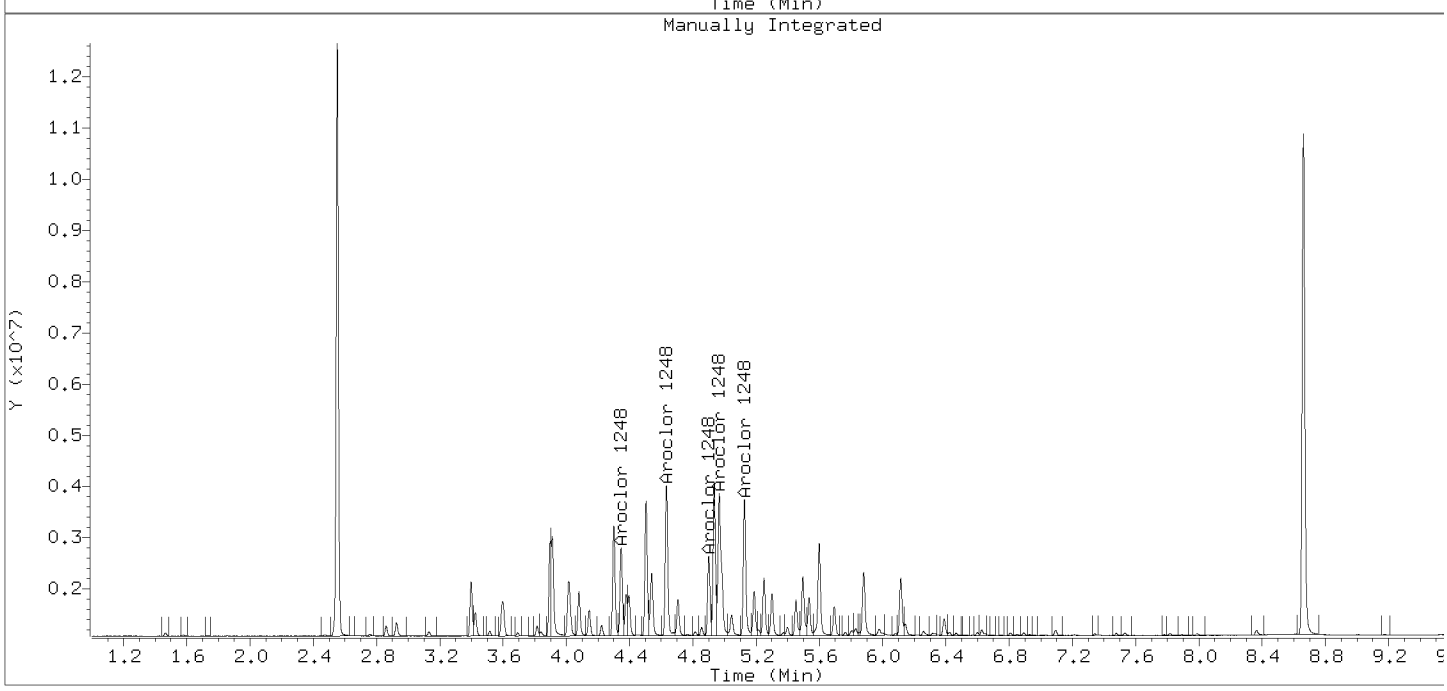
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618037.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 15:53 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL4D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1825919	1857778	BA
Aroclor 1248	1825919	1857778	BA
Aroclor 1248	1825919	1857778	BA
Aroclor 1248	1825919	1857778	BA
Aroclor 1248	1825919	1857778	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618039.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 06-MAR-2018 16:09
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17499,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:09 Cal File: 030618039.D
Als bottle: 22 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.465	91757	94848	1.034	0.09		
1.580	36045	37333	1.036	0.03		
2.472	45674	31390	0.687	0.04		
2.551	17093469	17309066	1.013	16.89		
2.639	15221	12448	0.818	0.01		
2.758	56496	45803	0.811	0.05		
2.861	282809	271636	0.960	0.27		
2.925	360240	322705	0.896	0.35		
3.130	123721	114122	0.922	0.12		
3.397	1342579	1296840	0.966	1.32		
3.425	591457	559867	0.947	0.58		
3.516	117909	108463	0.920	0.11		
3.597	1159661	845437	0.729	1.14		
3.693	89172	89182	1.000	0.08		
3.779	13719	13397	0.977	0.01		
3.816	246748	239082	0.969	0.24		
3.840	117705	106233	0.903	0.11		
3.897	2018809	2302977	1.141	1.99		
3.910	2695929	2435046	0.903	2.66		
4.015	1794252	1327886	0.740	1.77		
4.080	1202356	1079657	0.898	1.18		
4.144	691326	627429	0.908	0.68		
4.223	274872	246850	0.898	0.27		
4.300	2849842	2654500	0.931	2.81		
4.346	2301059	2113157	0.918	2.27	6 Aroclor 1248	BA
4.378	1008625	1008451	1.000	0.99		
4.395	1085539	990816	0.913	1.07		
4.504	3499920	3258912	0.931	3.45		
4.540	1875898	1523958	0.812	1.85		
4.633	4121811	3687318	0.895	4.07	6 Aroclor 1248	BA
4.678	74392	81176	1.091	0.07		
4.705	998519	904001	0.905	0.98		
4.769	56393	43230	0.767	0.05		
4.814	130574	96802	0.741	0.12		
4.856	221270	202378	0.915	0.21		
4.900	2072506	1956271	0.944	2.04	6 Aroclor 1248	BA
4.935	4031915	3787848	0.939	3.98		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.966	5270596	3395047	0.644	5.20	6 Aroclor 1248
5.044	689825	523814	0.759	0.68	
5.126	3798047	3367806	0.887	3.75	6 Aroclor 1248
5.188	1235064	1062558	0.860	1.22	
5.213	132204	147115	1.113	0.13	
5.250	1585440	1388350	0.876	1.56	
5.299	1184181	1011928	0.855	1.17	
5.373	85951	76288	0.888	0.08	
5.397	256591	208174	0.811	0.25	
5.451	1005716	867648	0.863	0.99	
5.495	1688246	1452004	0.860	1.66	
5.534	1070291	944020	0.882	1.05	
5.599	2827491	2265807	0.801	2.79	
5.694	834995	735211	0.880	0.82	
5.763	98656	80990	0.821	0.09	
5.804	168164	129320	0.769	0.16	
5.829	209335	183028	0.874	0.20	
5.852	67686	81382	1.202	0.06	
5.880	1959504	1548812	0.790	1.93	
5.978	268835	162114	0.603	0.26	
6.081	58975	57422	0.974	0.05	
6.114	1672942	1424842	0.852	1.65	
6.143	375980	283470	0.754	0.37	
6.257	170219	110979	0.652	0.16	
6.317	104771	57096	0.545	0.10	
6.388	503994	428724	0.851	0.49	
6.422	104014	83342	0.801	0.10	
6.464	80689	60185	0.746	0.07	
6.525	38041	21339	0.561	0.03	
6.599	81342	75971	0.934	0.08	
6.626	195383	138794	0.710	0.19	
6.694	28372	20222	0.713	0.02	
6.752	21891	17997	0.822	0.02	
6.807	79392	70197	0.884	0.07	
6.850	41588	35901	0.863	0.04	
6.892	88548	72583	0.820	0.08	
6.930	37738	28696	0.760	0.03	
7.030	18244	13290	0.728	0.01	
7.094	165147	140965	0.854	0.16	
7.213	31555	25258	0.800	0.03	
7.343	60133	53898	0.896	0.05	
7.372	16039	14609	0.911	0.01	
7.478	62711	58742	0.937	0.06	
7.533	69248	59760	0.863	0.06	
7.782	30908	26501	0.857	0.03	
7.819	80961	53527	0.661	0.08	
7.890	41212	30029	0.729	0.04	
7.988	49458	45760	0.925	0.04	
8.364	159784	136154	0.852	0.15	
8.443	24390	19000	0.779	0.02	
8.468	17162	12416	0.723	0.01	
8.612	18622	13970	0.750	0.01	
8.662	17207225	14548284	0.845	17.51	
9.005	69633	43095	0.619	0.06	
9.178	20695	16765	0.810	0.02	
9.528	110612	65355	0.591	0.10	
	101164626	89823069		100.000	

Total unknown % area = 83

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618039.D
Lab Smp Id: 1248-CAL5D Client Smp ID: 1248-CAL5D
Inj Date : 06-MAR-2018 16:09
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-cal5d, 185551:1
Misc Info : 17499,NSAR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:09 Cal File: 030618039.D
Als bottle: 22 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
6 Aroclor 1248					CAS #: 12672-29-6			
4.346	4.347	-0.001	2301058	1.00000	0.93	0.00- 20.00	100.00(M)	BA
4.632	4.632	0.000	4121810	1.00000	0.92	0.00- 20.00	179.13	BA
4.900	4.900	0.000	2072505	1.00000	0.96	0.00- 20.00	90.07	BA
4.966	4.967	-0.001	5270595	1.00000	0.93	0.00- 20.00	229.05	BA
5.125	5.127	-0.002	3798047	1.00000	0.96	0.00- 20.00	165.06	BA
Average of Peak Amounts =					0.94000			

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\030618.b\030618039.D

Date : 06-MAR-2018 16:09

Client ID: 1248-CAL5D

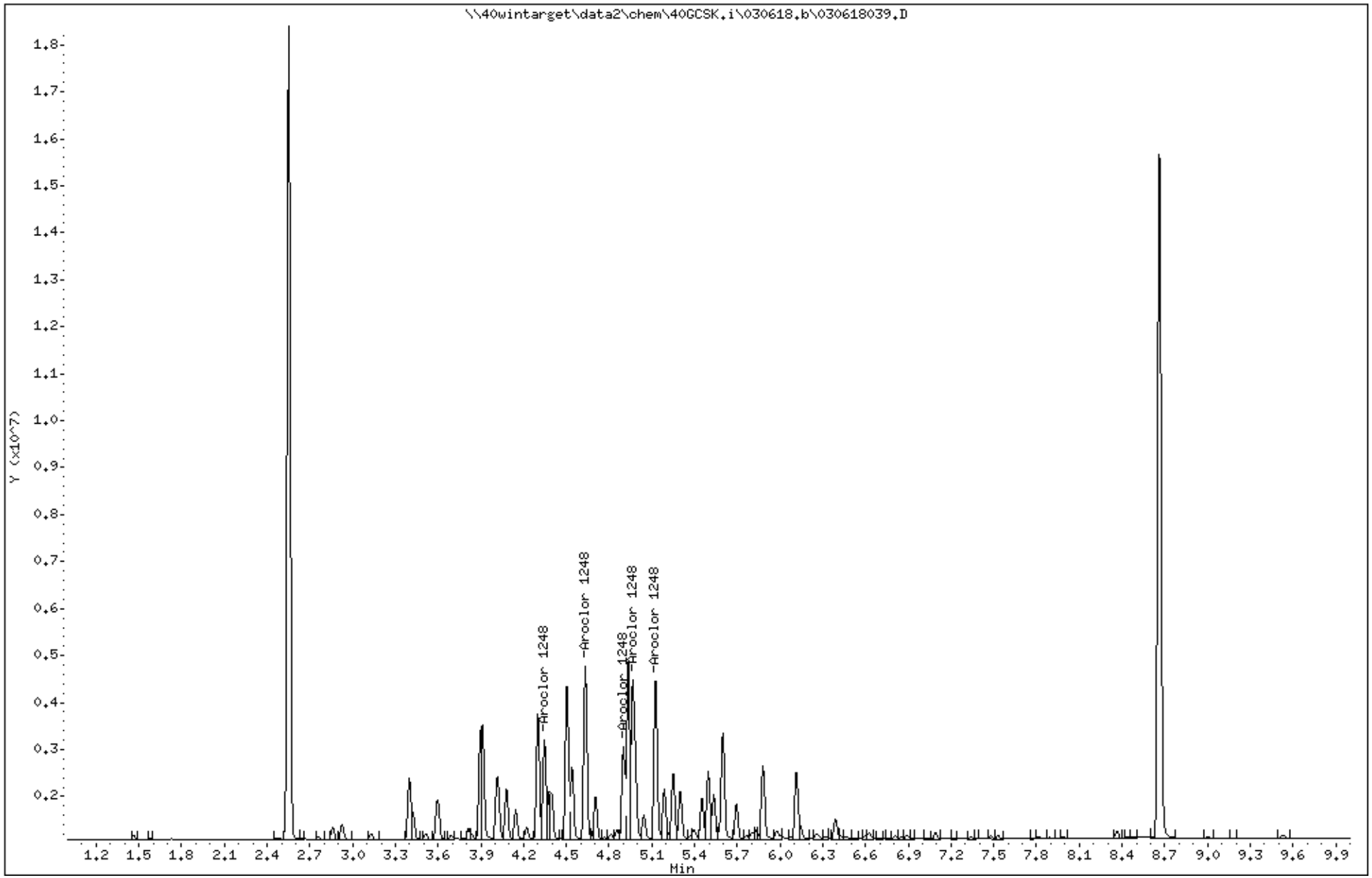
Instrument: 40GCSK.i

Sample Info: 1248-CAL5D, 185551:1

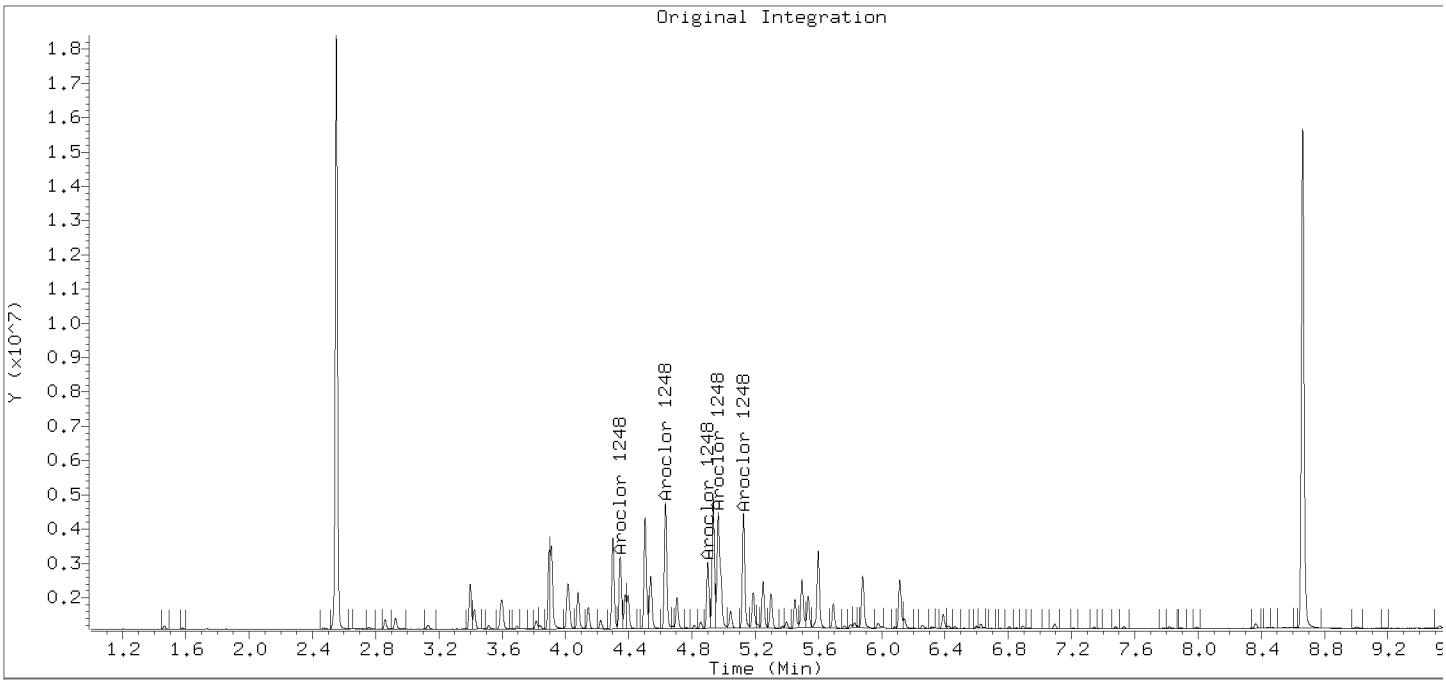
Operator: BLM

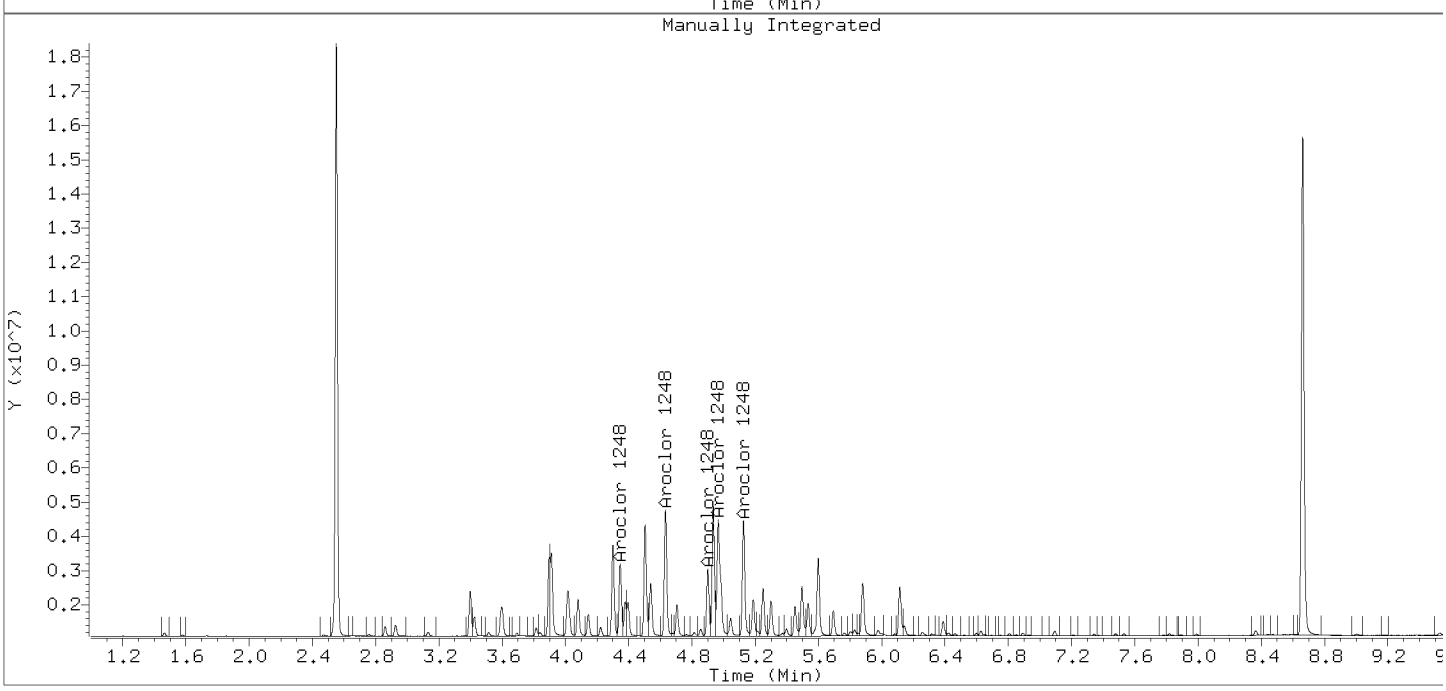
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618039.D (ManInt: NSAR1248.sub Orig: NSAR1248.sub)
Injection Date: 06-MAR-2018 16:09 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-CAL5D





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	2268579	2301058	BA
Aroclor 1248	2268579	2301058	BA
Aroclor 1248	2268579	2301058	BA
Aroclor 1248	2268579	2301058	BA
Aroclor 1248	2268579	2301058	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618043.D
Lab Smp Id: 1254-CAL1C Client Smp ID: 1254-CAL1C
Inj Date : 06-MAR-2018 16:41
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal1c, 188135:1
Misc Info : 17499,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:41 Cal File: 030618043.D
Als bottle: 24 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.203	34945	33179	0.949	0.27		
1.463	11614	9767	0.841	0.09		
1.732	18094	19859	1.098	0.14		
2.064	25972	20881	0.804	0.20		
2.551	1240519	1256412	1.013	9.74		
2.859	24453	19997	0.818	0.19		
3.099	16559	15373	0.928	0.13		
3.900	13797	10937	0.793	0.10		
4.134	17080	14723	0.862	0.13		
4.301	282331	264866	0.938	2.21		
4.348	74354	71642	0.964	0.58		
4.379	14690	11538	0.785	0.11		
4.504	175027	160188	0.915	1.37		
4.540	23009	19675	0.855	0.18		
4.634	77368	71752	0.927	0.60		
4.708	9829	12462	1.268	0.07		
4.899	62993	58559	0.930	0.49		
4.936	254998	222701	0.873	2.00		
4.983	574848	451394	0.785	4.51		
5.045	93626	82838	0.885	0.73		
5.127	56762	46718	0.823	0.44		
5.188	324043	287989	0.889	2.54		
5.250	628985	563976	0.897	4.94	7 Aroclor 1254	BA
5.299	290534	247578	0.852	2.28		
5.371	18021	16664	0.925	0.14		
5.397	53170	44094	0.829	0.41		
5.452	238186	215714	0.906	1.87		
5.496	500871	449663	0.898	3.93	7 Aroclor 1254	BA
5.535	175052	150696	0.861	1.37		
5.569	66178	61946	0.936	0.51		
5.598	946431	825464	0.872	7.43	7 Aroclor 1254	BA
5.693	135729	111810	0.824	1.06		
5.764	92968	80706	0.868	0.73		
5.802	128106	81294	0.635	1.00		
5.829	80483	65265	0.811	0.63		
5.879	965094	721535	0.748	7.58		
5.973	87279	63499	0.728	0.68		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.018	52563	29927	0.569	0.41	
6.081	79674	72728	0.913	0.62	
6.117	551607	482120	0.874	4.33	7 Aroclor 1254
6.144	466034	370123	0.794	3.66	
6.257	174361	134701	0.773	1.36	
6.317	60146	69990	1.164	0.47	
6.330	91838	68456	0.745	0.72	
6.389	789959	675779	0.855	6.20	7 Aroclor 1254
6.423	151217	125207	0.828	1.18	
6.463	91525	67549	0.738	0.71	
6.599	28324	29713	1.049	0.22	
6.627	265466	192715	0.726	2.08	
6.696	42188	31024	0.735	0.33	
6.808	56592	43026	0.760	0.44	
6.849	32154	29142	0.906	0.25	
6.891	146553	120759	0.824	1.15	
6.935	47039	29205	0.621	0.36	
7.030	16536	14975	0.906	0.12	
7.094	109854	88625	0.807	0.86	
7.341	86226	71545	0.830	0.67	
7.374	19262	17838	0.926	0.15	
8.364	13734	12684	0.924	0.10	
8.441	20293	14550	0.717	0.15	
8.660	1461889	1244086	0.851	11.75	
9.006	29483	18847	0.639	0.23	
9.525	13240	12199	0.921	0.10	
	12731757	10930867		100.000	

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618043.D
Lab Smp Id: 1254-CAL1C Client Smp ID: 1254-CAL1C
Inj Date : 06-MAR-2018 16:41
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal1c, 188135:1
Misc Info : 17499,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:41 Cal File: 030618043.D
Als bottle: 24 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.250	5.249	0.001	628985	0.10000	0.11	0.00- 20.00	100.00(M)	BA
5.496	5.496	0.000	500870	0.10000	0.11	0.00- 20.00	79.63	BA
5.598	5.598	0.000	946431	0.10000	0.11	0.00- 20.00	150.47	BA
6.117	6.117	0.000	551607	0.10000	0.10	0.00- 20.00	87.70	BA
6.388	6.388	0.000	789958	0.10000	0.11	0.00- 20.00	125.59	BA
Average of Peak Amounts =					0.10800			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

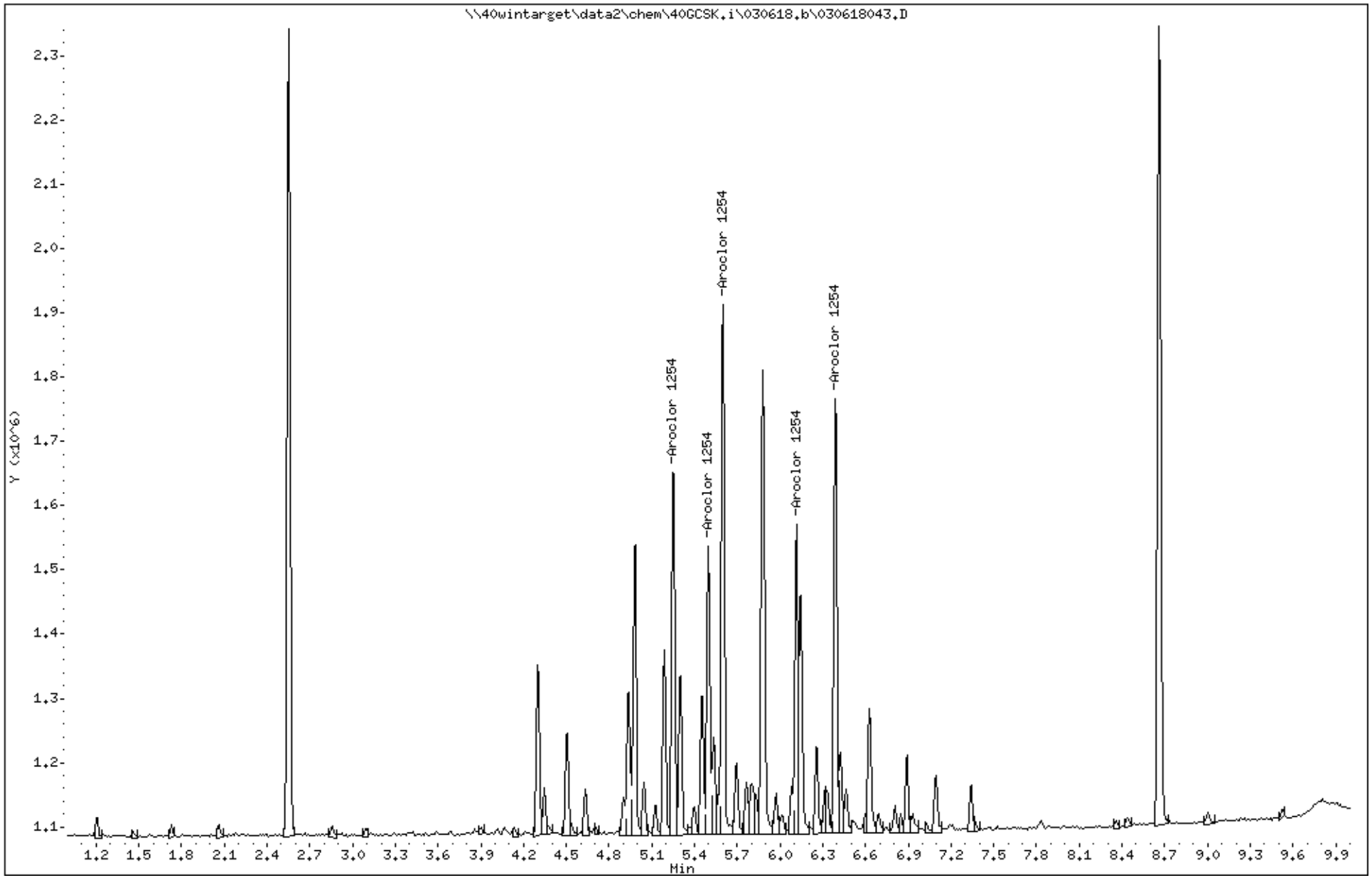
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618043.D
Date : 06-MAR-2018 16:41
Client ID: 1254-CAL1C
Sample Info: 1254-CAL1C, 188135:1

Instrument: 40GCSK.i

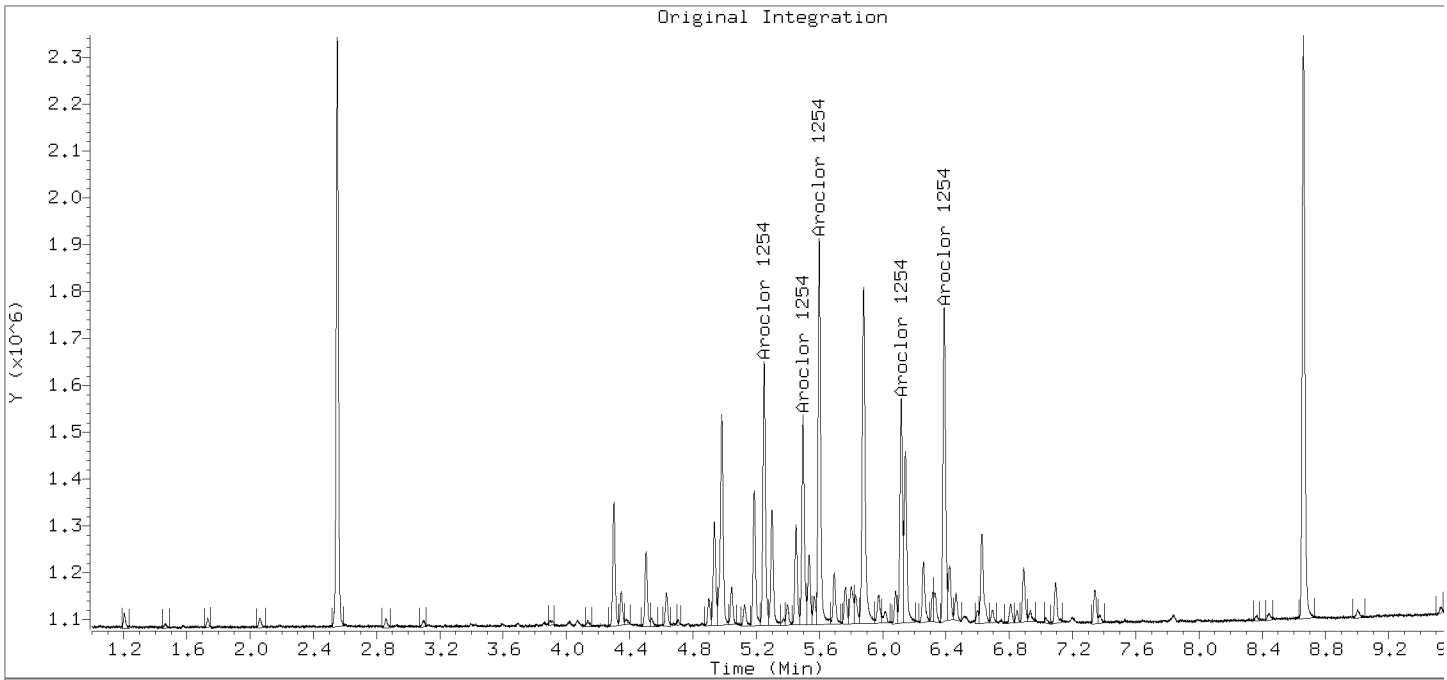
Operator: BLM

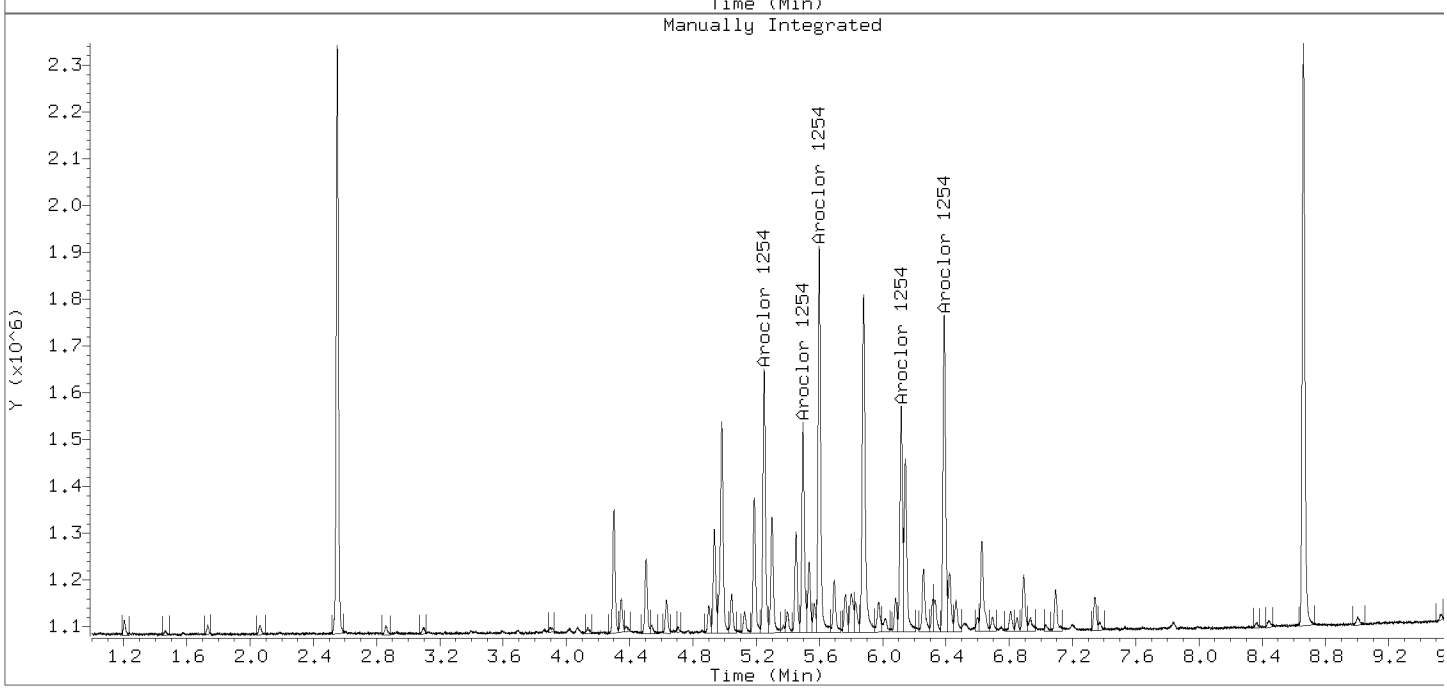
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618043.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 16:41 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL1C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	626956	628985	BA
Aroclor 1254	626956	628985	BA
Aroclor 1254	626956	628985	BA
Aroclor 1254	626956	628985	BA
Aroclor 1254	626956	628985	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618045.D
Lab Smp Id: 1254-CAL2C Client Smp ID: 1254-CAL2C
Inj Date : 06-MAR-2018 16:57
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17499,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 16:57 Cal File: 030618045.D
Als bottle: 25 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.464	16618	17079	1.028	0.06		
1.733	15803	12776	0.808	0.06		
2.551	2407782	2444749	1.015	9.72		
2.859	45244	36682	0.811	0.18		
2.927	11885	9568	0.805	0.04		
3.399	13139	14319	1.090	0.05		
3.594	17917	12553	0.701	0.07		
3.692	16157	15804	0.978	0.06		
3.899	29612	19259	0.650	0.11		
4.022	26269	19986	0.761	0.10		
4.300	549724	530422	0.965	2.22		
4.347	147092	141945	0.965	0.59		
4.380	27565	20835	0.756	0.11		
4.505	324988	306013	0.942	1.31		
4.541	37151	32535	0.876	0.15		
4.633	155912	136732	0.877	0.62		
4.704	24844	23761	0.956	0.10		
4.901	120274	114126	0.949	0.48		
4.936	481920	444795	0.923	1.94		
4.982	1118282	894538	0.800	4.51		
5.046	185816	156977	0.845	0.75		
5.125	107136	91953	0.858	0.43		
5.188	640578	572858	0.894	2.58		
5.250	1221774	1115301	0.913	4.93	7 Aroclor 1254	BA
5.300	571110	490061	0.858	2.30		
5.372	30187	28129	0.932	0.12		
5.398	102519	86559	0.844	0.41		
5.452	461667	424893	0.920	1.86		
5.496	993867	893107	0.899	4.01	7 Aroclor 1254	BA
5.535	339086	292116	0.861	1.37		
5.568	128983	124199	0.963	0.52		
5.599	1815715	1545787	0.851	7.33	7 Aroclor 1254	BA
5.694	261481	218038	0.834	1.05		
5.764	162931	151340	0.929	0.65		
5.802	243718	159473	0.654	0.98		
5.830	152779	123564	0.809	0.61		
5.879	1877619	1389399	0.740	7.58		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.973	171065	123541	0.722	0.69	
6.018	103400	57767	0.559	0.41	
6.080	152645	140274	0.919	0.61	
6.117	1123981	950298	0.845	4.54	7 Aroclor 1254
6.143	823807	723065	0.878	3.32	
6.173	422675	279761	0.662	1.70	
6.257	348732	272198	0.781	1.40	
6.317	249461	137333	0.551	1.00	
6.388	1566161	1310475	0.837	6.32	7 Aroclor 1254
6.423	300676	241974	0.805	1.21	
6.463	180228	133366	0.740	0.72	
6.524	44758	25856	0.578	0.18	
6.597	60823	56370	0.927	0.24	
6.628	515650	390025	0.756	2.08	
6.694	85432	59945	0.702	0.34	
6.748	22157	14342	0.647	0.08	
6.808	101258	83669	0.826	0.40	
6.849	60568	53554	0.884	0.24	
6.892	282769	233579	0.826	1.14	
6.932	101314	54122	0.534	0.40	
7.032	30726	24888	0.810	0.12	
7.095	201515	172897	0.858	0.81	
7.341	160023	136360	0.852	0.64	
7.533	10321	12133	1.176	0.04	
7.641	11172	9083	0.813	0.04	
7.895	11829	8340	0.705	0.04	
8.364	28614	20737	0.725	0.11	
8.661	2662073	2222584	0.835	11.10	
9.006	13806	12097	0.876	0.05	
9.527	17664	11299	0.640	0.07	
	24750449	21084163		100.000	

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618045.D
Lab Smp Id: 1254-CAL2C Client Smp ID: 1254-CAL2C
Inj Date : 06-MAR-2018 16:57
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal2c, 185553:1
Misc Info : 17499,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 16:57 Cal File: 030618045.D
Als bottle: 25 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.250	5.249	0.001	1221773	0.20000	0.21	0.00- 20.00	100.00(M)	BA
5.495	5.496	-0.001	993867	0.20000	0.21	0.00- 20.00	81.35	BA
5.598	5.598	0.000	1815714	0.20000	0.21	0.00- 20.00	148.61	BA
6.116	6.117	-0.001	1123981	0.20000	0.21	0.00- 20.00	92.00	BA
6.388	6.388	0.000	1566160	0.20000	0.21	0.00- 20.00	128.19	BA
Average of Peak Amounts =					0.21000			

QC Flag Legend

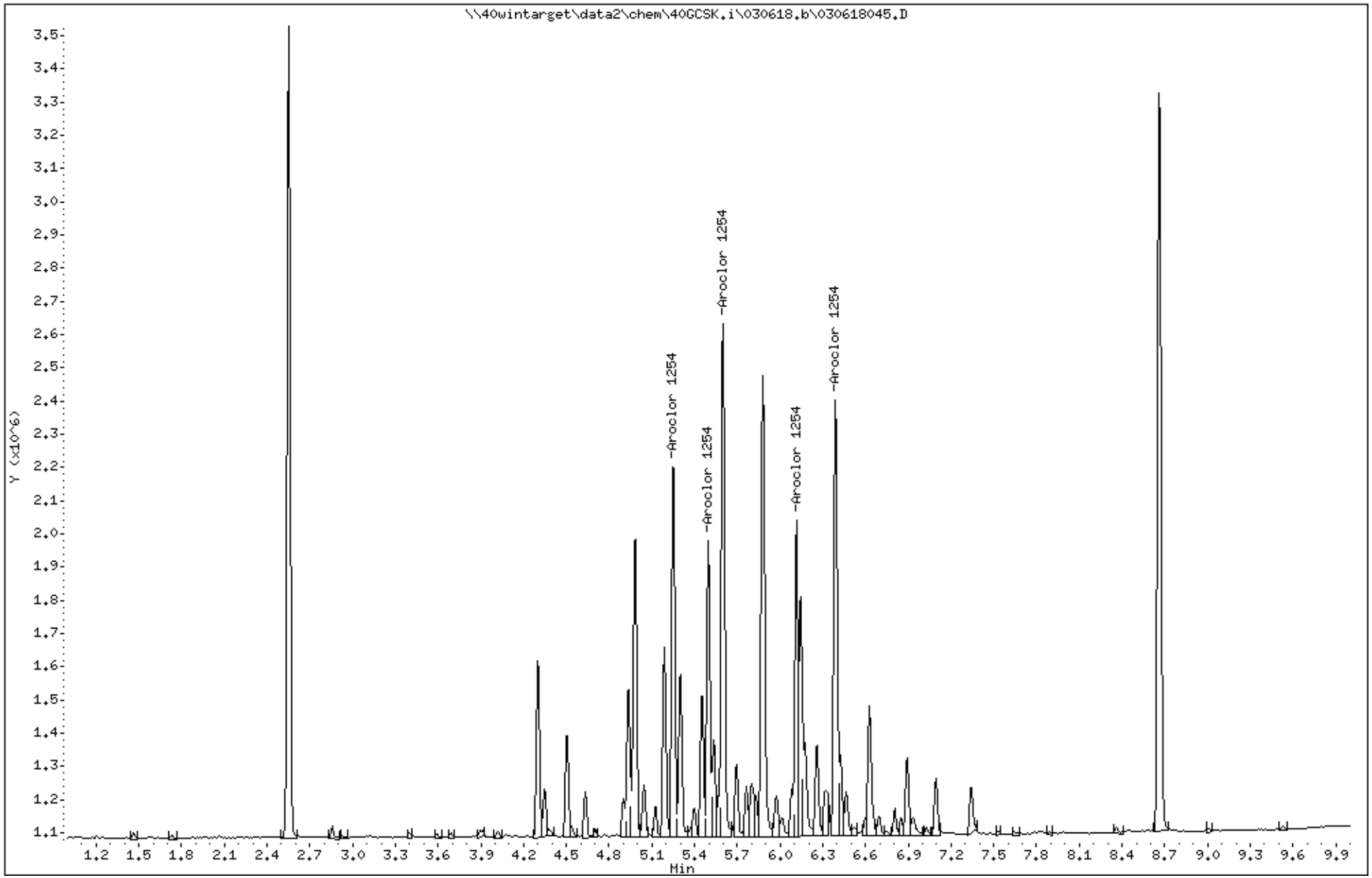
M - Compound response manually integrated.

Review Codes Legend

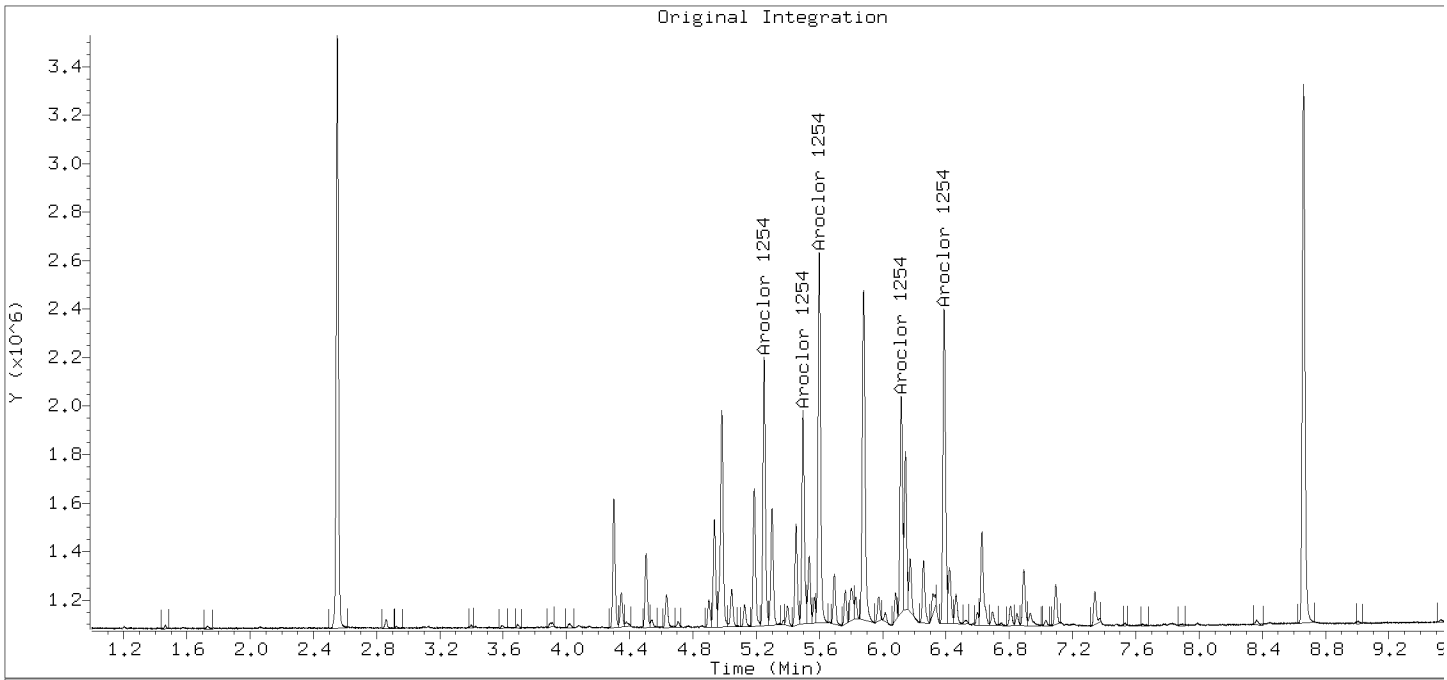
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

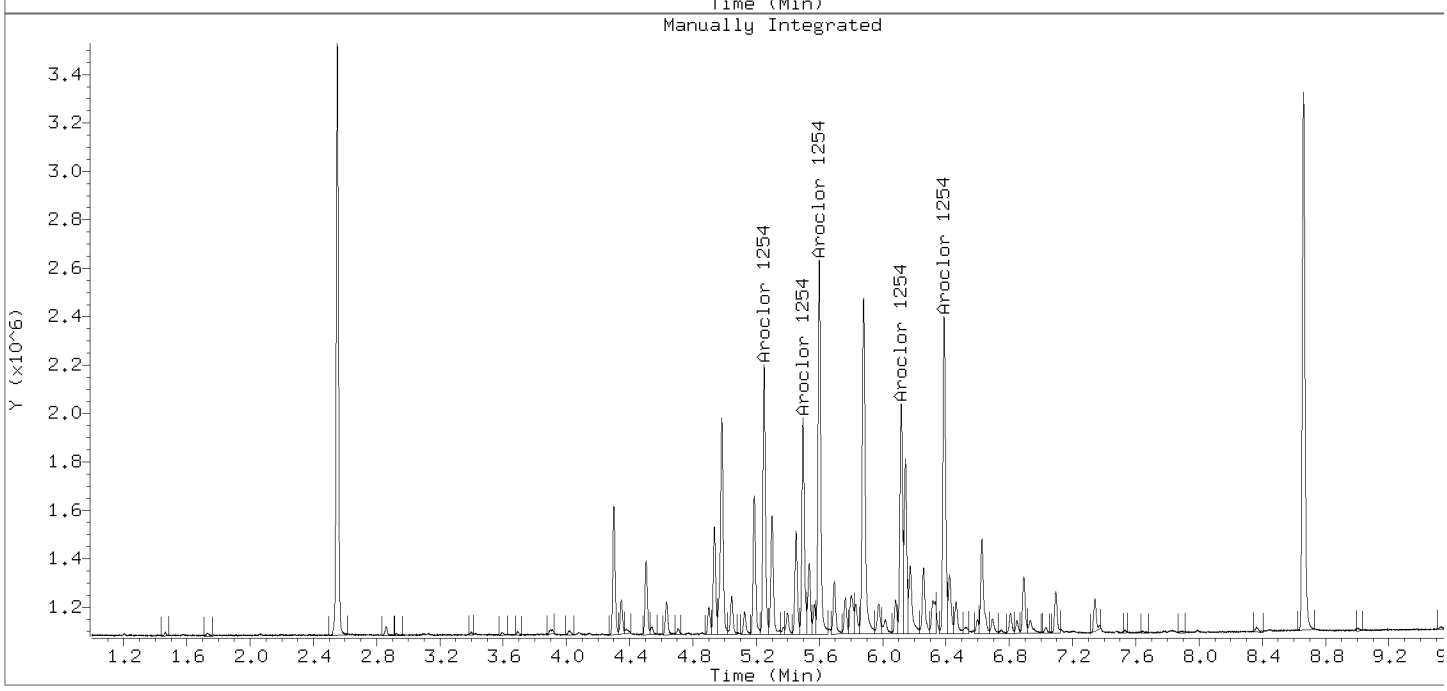
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618045.D
Date : 06-MAR-2018 16:57
Client ID: 1254-CAL2C
Sample Info: 1254-CAL2C, 185553:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618045.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 16:57 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL2C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	1201216	1221773	BA
Aroclor 1254	1201216	1221773	BA
Aroclor 1254	1201216	1221773	BA
Aroclor 1254	1201216	1221773	BA
Aroclor 1254	1201216	1221773	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618047.D
Lab Smp Id: 1254-CAL3C Client Smp ID: 1254-CAL3C
Inj Date : 06-MAR-2018 17:13
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17499,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:13 Cal File: 030618047.D
Als bottle: 26 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.206	23043	21263	0.923	0.03		
1.466	35709	35899	1.005	0.06		
1.577	16163	17201	1.064	0.02		
1.732	21595	22179	1.027	0.03		
2.060	11195	9077	0.811	0.01		
2.551	5973778	6053043	1.013	10.26		
2.860	84967	86318	1.016	0.14		
2.927	23305	17825	0.765	0.04		
3.127	15988	17705	1.107	0.02		
3.397	33190	29088	0.876	0.05		
3.427	19416	17844	0.919	0.03		
3.595	27883	22043	0.791	0.04		
3.692	44919	36365	0.810	0.07		
3.814	11373	11150	0.980	0.01		
3.862	10792	11474	1.063	0.01		
3.899	99897	54135	0.542	0.17		
4.019	58509	42231	0.722	0.10		
4.079	27769	24235	0.873	0.04		
4.138	34143	21227	0.622	0.05		
4.220	9609	8294	0.863	0.01		
4.300	1271787	1199914	0.943	2.18		
4.347	315624	321353	1.018	0.54		
4.377	19652	29256	1.489	0.03		
4.504	789923	763814	0.967	1.35		
4.540	93686	75699	0.808	0.16		
4.633	351729	325111	0.924	0.60		
4.680	14417	17097	1.186	0.02		
4.706	58773	56194	0.956	0.10		
4.771	17940	15980	0.891	0.03		
4.854	18732	17119	0.914	0.03		
4.901	293740	280535	0.955	0.50		
4.935	1197820	1080855	0.902	2.05		
4.982	2590461	2001169	0.773	4.44		
5.044	435390	371874	0.854	0.74		
5.126	259387	221656	0.855	0.44		
5.188	1515009	1331432	0.879	2.60		
5.250	2810430	2561881	0.912	4.82	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.300	1332102	1159627	0.871	2.28	
5.373	71180	67193	0.944	0.12	
5.399	241465	207504	0.859	0.41	
5.451	1121907	1006781	0.897	1.92	
5.495	2345828	2063326	0.880	4.02	7 Aroclor 1254
5.534	839568	743984	0.886	1.44	
5.567	294012	278194	0.946	0.50	
5.598	4245792	3717528	0.876	7.29	7 Aroclor 1254
5.662	55437	48291	0.871	0.09	
5.694	622180	549097	0.883	1.06	
5.764	389000	357794	0.920	0.66	
5.801	585875	382777	0.653	1.00	
5.829	380585	297031	0.780	0.65	
5.879	4378217	3348891	0.765	7.52	
5.974	398129	298539	0.750	0.68	
6.017	221186	136369	0.617	0.37	
6.082	363753	338809	0.931	0.62	
6.116	2706576	2256984	0.834	4.64	7 Aroclor 1254
6.143	2060893	1689834	0.820	3.54	
6.258	806908	678371	0.841	1.38	
6.317	599542	329596	0.550	1.02	
6.387	3651931	3104628	0.850	6.27	7 Aroclor 1254
6.422	714556	596338	0.835	1.22	
6.464	401250	314458	0.784	0.68	
6.525	115226	56397	0.489	0.19	
6.600	139408	139095	0.998	0.23	
6.627	1264094	983434	0.778	2.17	
6.694	194073	148715	0.766	0.33	
6.749	36034	27686	0.768	0.06	
6.807	236899	205290	0.867	0.40	
6.849	143056	126289	0.883	0.24	
6.892	712824	610488	0.856	1.22	
6.931	220527	133000	0.603	0.37	
7.031	66942	57485	0.859	0.11	
7.094	496062	429402	0.866	0.85	
7.163	21908	18902	0.863	0.03	
7.202	22894	14567	0.636	0.03	
7.341	397799	372578	0.937	0.68	
7.371	95911	76384	0.796	0.16	
7.478	17853	16941	0.949	0.03	
7.531	30300	24010	0.792	0.05	
7.642	18103	16857	0.931	0.03	
7.780	14316	14605	1.020	0.02	
7.817	18191	16016	0.880	0.03	
7.891	13643	11153	0.817	0.02	
7.991	31428	21799	0.694	0.05	
8.364	52854	44001	0.832	0.09	
8.660	6339588	5224889	0.824	11.34	
9.004	21365	16859	0.789	0.03	
9.532	26119	17608	0.674	0.04	
	58213030	50025929		100.000	

Total unknown % area = 73

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618047.D
Lab Smp Id: 1254-CAL3C Client Smp ID: 1254-CAL3C
Inj Date : 06-MAR-2018 17:13
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal3c, 185554:1
Misc Info : 17499,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:13 Cal File: 030618047.D
Als bottle: 26 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.249	5.249	0.000	2810430	0.50000	0.49	0.00- 20.00	100.00(M)	BA
5.495	5.496	-0.001	2345827	0.50000	0.50	0.00- 20.00	83.47	BA
5.598	5.598	0.000	4245791	0.50000	0.49	0.00- 20.00	151.07	BA
6.115	6.117	-0.002	2706576	0.50000	0.50	0.00- 20.00	96.30	BA
6.387	6.388	-0.001	3651931	0.50000	0.50	0.00- 20.00	129.94	BA
Average of Peak Amounts =					0.49600			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618047.D

Date : 06-MAR-2018 17:13

Client ID: 1254-CAL3C

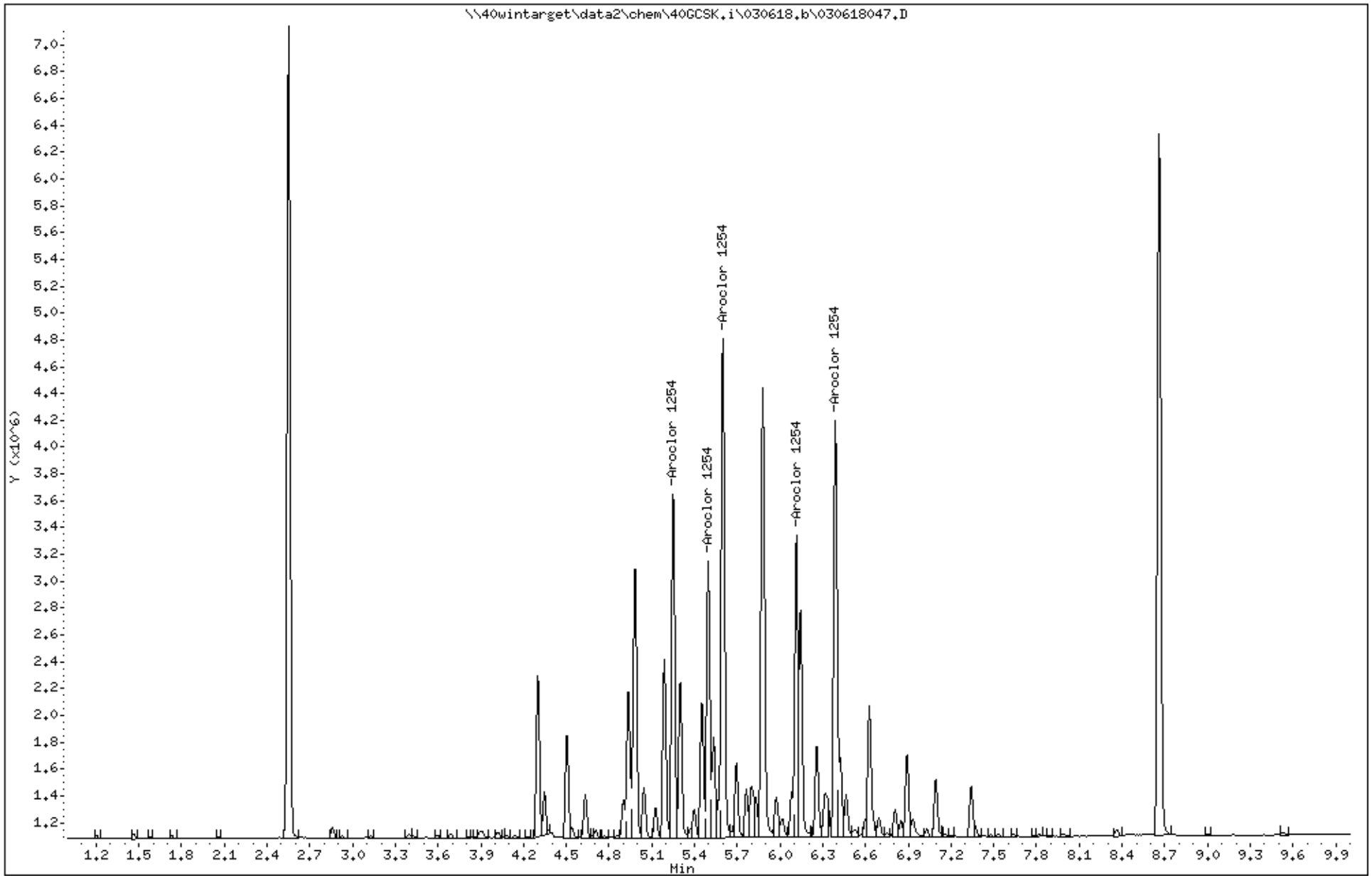
Instrument: 40GCSK.i

Sample Info: 1254-CAL3C, 185554:1

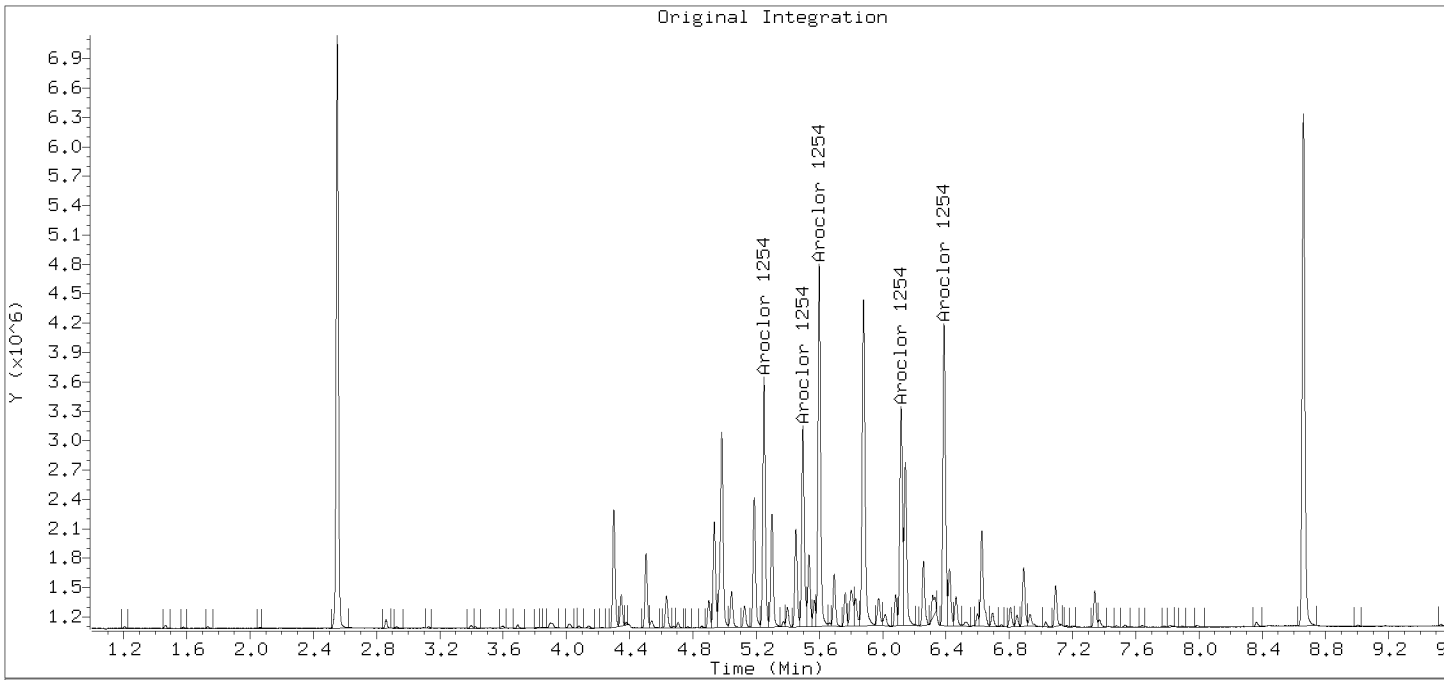
Operator: BLM

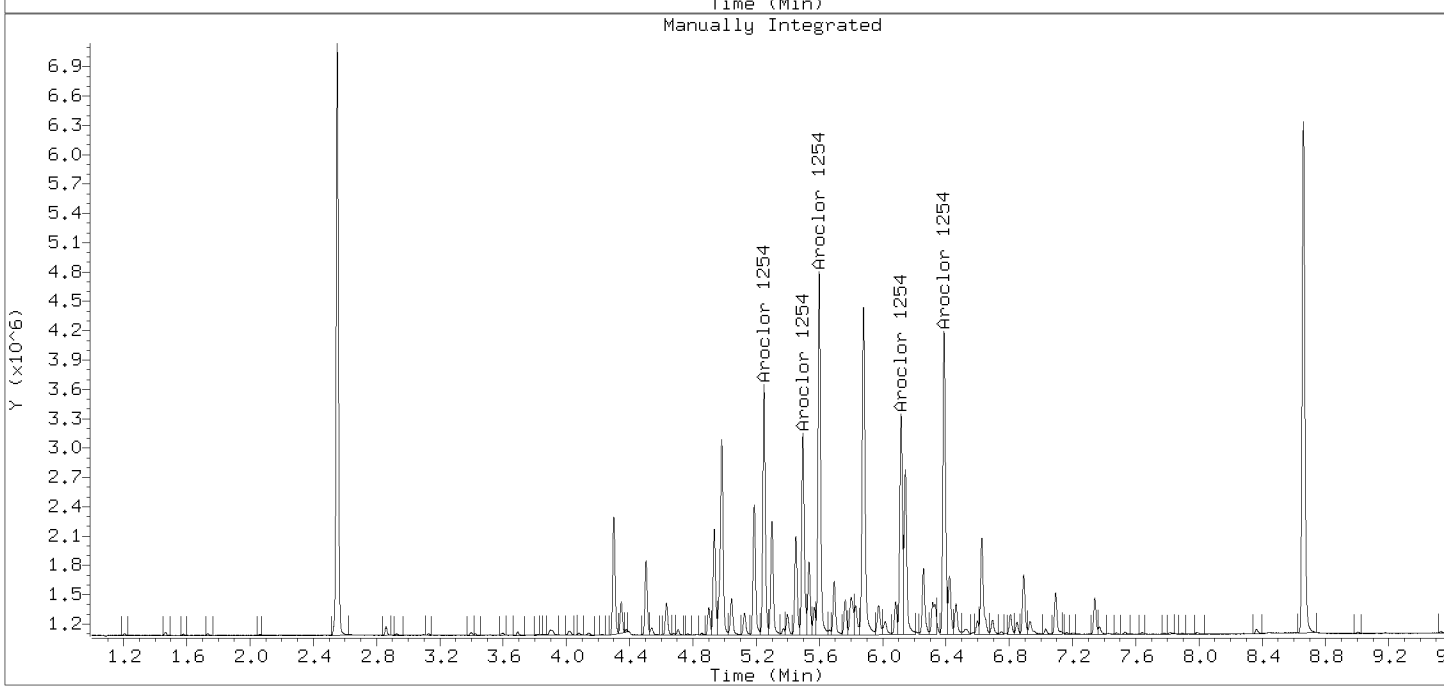
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618047.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 17:13 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL3C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2783706	2810430	BA
Aroclor 1254	2783706	2810430	BA
Aroclor 1254	2783706	2810430	BA
Aroclor 1254	2783706	2810430	BA
Aroclor 1254	2783706	2810430	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618049.D
Lab Smp Id: 1254-CAL4C Client Smp ID: 1254-CAL4C
Inj Date : 06-MAR-2018 17:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17499,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:30 Cal File: 030618049.D
Als bottle: 27 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.464	64390	65874	1.023	0.06		
1.577	25516	26351	1.033	0.02		
1.731	13093	11088	0.847	0.01		
2.550	11427265	11616723	1.017	12.34		
2.859	154643	157441	1.018	0.16		
2.924	28684	25720	0.897	0.03		
3.127	30777	29017	0.943	0.03		
3.397	47845	45756	0.956	0.05		
3.423	27777	23207	0.835	0.03		
3.595	41245	32377	0.785	0.04		
3.693	66449	65259	0.982	0.07		
3.839	10741	9231	0.859	0.01		
3.896	87286	64505	0.739	0.09		
4.020	91281	65929	0.722	0.09		
4.079	34212	30979	0.906	0.03		
4.145	24406	22679	0.929	0.02		
4.222	12868	12406	0.964	0.01		
4.300	1907497	1778587	0.932	2.06		
4.346	534413	509877	0.954	0.57		
4.377	92665	70416	0.760	0.10		
4.504	1193840	1129888	0.946	1.29		
4.539	128796	113105	0.878	0.13		
4.633	544433	518948	0.953	0.58		
4.679	23461	24781	1.056	0.02		
4.704	103122	86444	0.838	0.11		
4.766	25745	22156	0.861	0.02		
4.823	12787	12362	0.967	0.01		
4.855	31076	29151	0.938	0.03		
4.900	453377	435690	0.961	0.48		
4.935	1795314	1618070	0.901	1.94		
4.983	3864895	2996090	0.775	4.17		
5.045	671371	581581	0.866	0.72		
5.126	401181	343780	0.857	0.43		
5.188	2248749	1994327	0.887	2.43		
5.250	4179239	3753259	0.898	4.51	7 Aroclor 1254	BA
5.300	1984581	1696133	0.855	2.14		
5.372	110211	101849	0.924	0.11		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.397	357665	315589	0.882	0.38	
5.451	1677401	1493106	0.890	1.81	
5.495	3545718	3156290	0.890	3.83	7 Aroclor 1254
5.534	1261759	1118433	0.886	1.36	
5.567	439646	426388	0.970	0.47	
5.598	6470836	5657454	0.874	6.99	7 Aroclor 1254
5.693	952910	819381	0.860	1.02	
5.763	590770	551055	0.933	0.63	
5.802	885275	598031	0.676	0.95	
5.829	585159	466775	0.798	0.63	
5.878	6597002	5107795	0.774	7.12	
5.974	620972	468985	0.755	0.67	
6.017	333256	207051	0.621	0.36	
6.081	558514	532214	0.953	0.60	
6.116	4123224	3431973	0.832	4.45	7 Aroclor 1254
6.144	3067518	2468041	0.805	3.31	
6.257	1235034	1005458	0.814	1.33	
6.316	922713	507089	0.550	0.99	
6.388	5517236	4682532	0.849	5.96	7 Aroclor 1254
6.423	1079585	910674	0.844	1.16	
6.464	625787	492586	0.787	0.67	
6.526	164607	87710	0.533	0.17	
6.599	218891	207406	0.948	0.23	
6.626	1919579	1439701	0.750	2.07	
6.693	294723	228246	0.774	0.31	
6.750	63223	46588	0.737	0.06	
6.808	364542	305147	0.837	0.39	
6.848	219349	189944	0.866	0.23	
6.891	1101997	959404	0.871	1.19	
6.932	330434	205314	0.621	0.35	
7.030	105600	87584	0.829	0.11	
7.093	769743	642738	0.835	0.83	
7.161	34719	28304	0.815	0.03	
7.341	625220	561800	0.899	0.67	
7.372	147644	117566	0.796	0.15	
7.429	19727	13710	0.695	0.02	
7.478	31942	25297	0.792	0.03	
7.531	45239	34496	0.763	0.04	
7.644	36240	27506	0.759	0.03	
7.780	22195	20576	0.927	0.02	
7.817	36298	32148	0.886	0.03	
7.891	24590	19203	0.781	0.02	
7.991	37131	31481	0.848	0.04	
8.364	94700	81370	0.859	0.10	
8.660	11840142	9785210	0.826	13.22	
9.004	14723	12151	0.825	0.01	
9.174	13711	13022	0.950	0.01	
9.527	16175	12252	0.757	0.01	
	92536295	79753810		100.000	

Total unknown % area = 74

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618049.D
Lab Smp Id: 1254-CAL4C Client Smp ID: 1254-CAL4C
Inj Date : 06-MAR-2018 17:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal4c, 185555:1
Misc Info : 17499,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:30 Cal File: 030618049.D
Als bottle: 27 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.249	5.249	0.000	4179239	0.80000	0.74	0.00- 20.00	100.00(M)	BA
5.495	5.496	-0.001	3545717	0.80000	0.75	0.00- 20.00	84.84	BA
5.598	5.598	0.000	6470835	0.80000	0.75	0.00- 20.00	154.83	BA
6.115	6.117	-0.002	4123224	0.80000	0.77	0.00- 20.00	98.66	BA
6.388	6.388	0.000	5517236	0.80000	0.75	0.00- 20.00	132.02	BA
Average of Peak Amounts =					0.75200			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618049.D

Date : 06-MAR-2018 17:30

Client ID: 1254-CAL4C

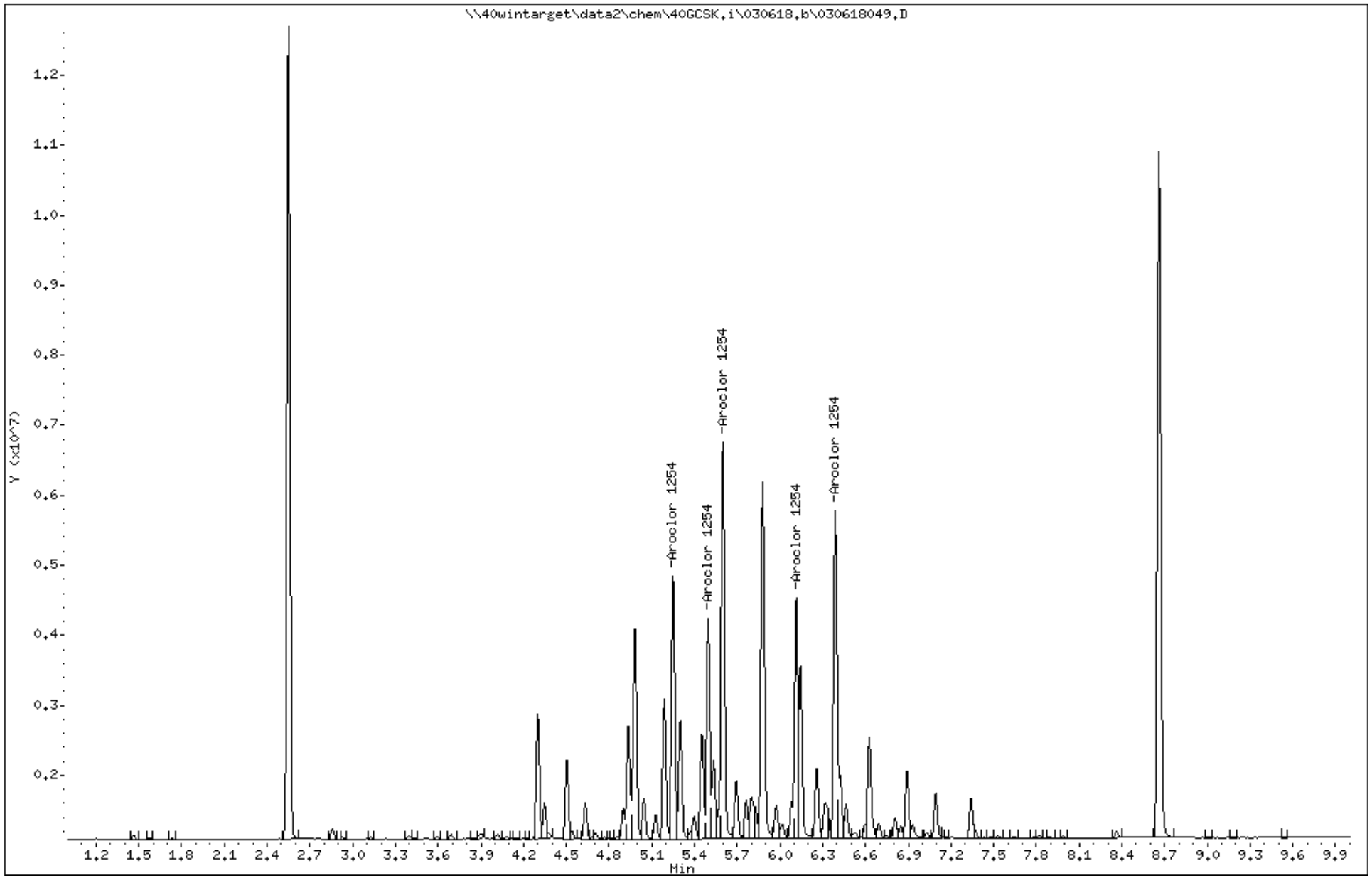
Instrument: 40GCSK.i

Sample Info: 1254-CAL4C, 185555:1

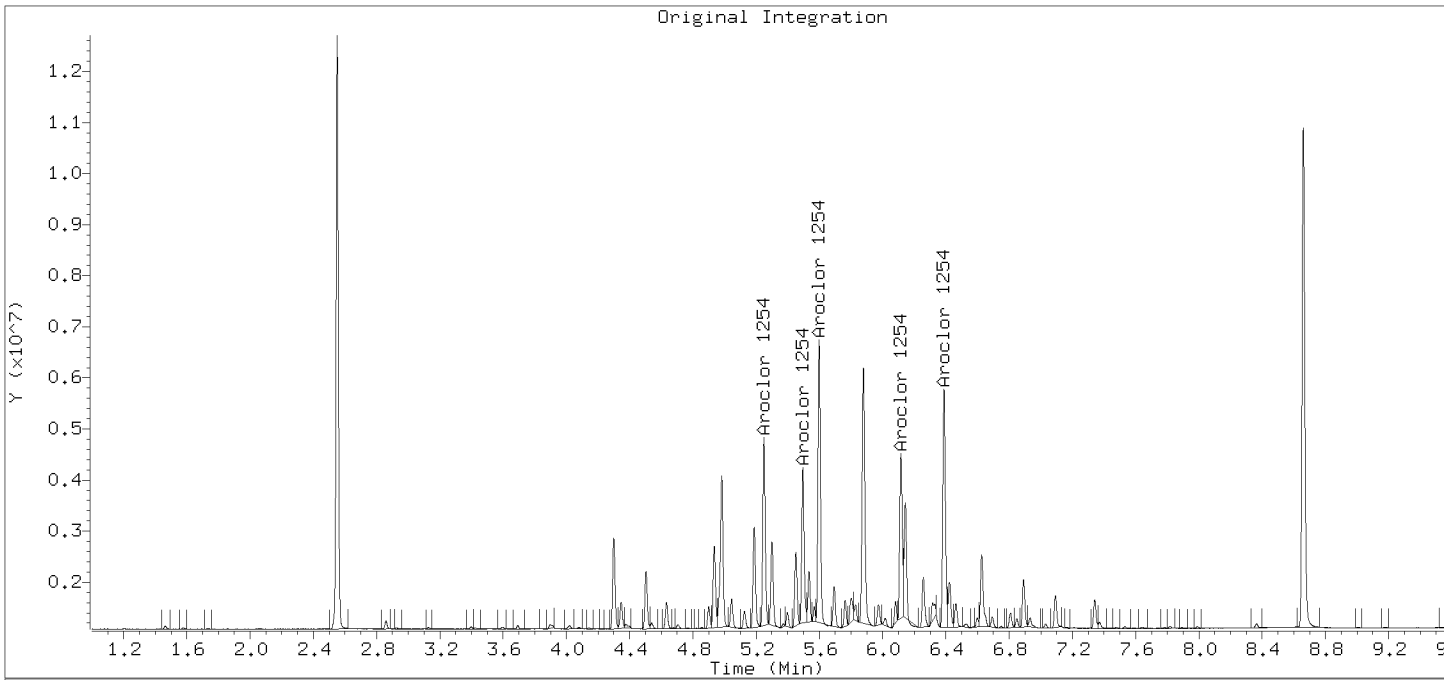
Operator: BLM

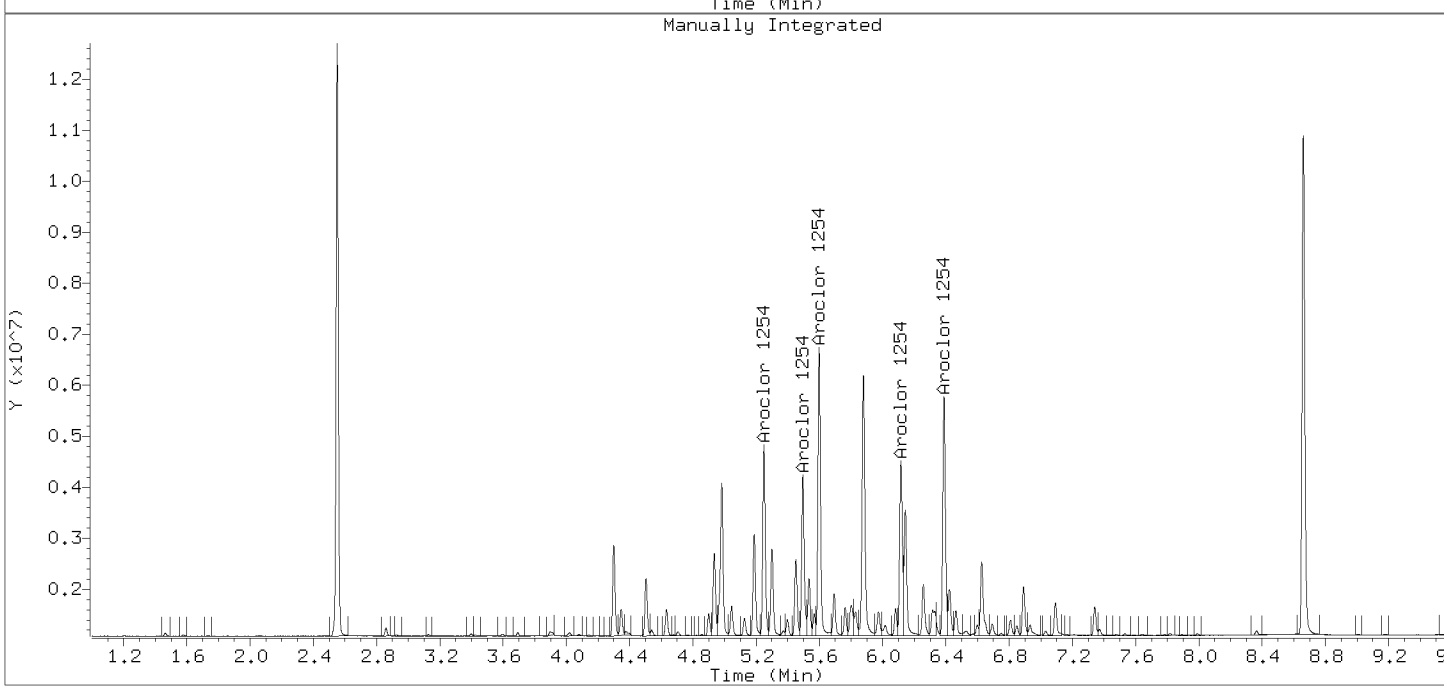
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618049.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 17:30 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL4C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	3974085	4179239	BA
Aroclor 1254	3974085	4179239	BA
Aroclor 1254	3974085	4179239	BA
Aroclor 1254	3974085	4179239	BA
Aroclor 1254	3974085	4179239	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618051.D
Lab Smp Id: 1254-CAL5C Client Smp ID: 1254-CAL5C
Inj Date : 06-MAR-2018 17:46
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17499,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 17:46 Cal File: 030618051.D
Als bottle: 28 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.465	98600	95105	0.965	0.08		
1.579	39200	38998	0.995	0.03		
1.729	11895	11951	1.005	0.00		
2.551	17433191	17770868	1.019	14.87		
2.634	22771	18618	0.818	0.01		
2.859	236914	237668	1.003	0.19		
2.926	38186	30746	0.805	0.03		
3.128	47285	43486	0.920	0.03		
3.397	52347	52836	1.009	0.04		
3.425	28417	27703	0.975	0.02		
3.595	62192	41755	0.671	0.05		
3.692	91474	92559	1.012	0.07		
3.812	13321	15107	1.134	0.01		
3.839	11099	12946	1.166	0.00		
3.898	109561	79975	0.730	0.09		
4.022	117089	81273	0.694	0.09		
4.080	44719	37669	0.842	0.03		
4.145	33522	28480	0.850	0.02		
4.223	14567	14643	1.005	0.01		
4.299	2349734	2244001	0.955	1.94		
4.346	653940	649144	0.993	0.54		
4.378	95471	77362	0.810	0.07		
4.503	1480533	1385288	0.936	1.22		
4.539	165720	137990	0.833	0.13		
4.633	683548	641672	0.939	0.56		
4.679	29212	27309	0.935	0.02		
4.706	116610	107251	0.920	0.09		
4.769	29479	26679	0.905	0.02		
4.824	18637	14687	0.788	0.01		
4.854	37029	34488	0.931	0.03		
4.900	573369	559985	0.977	0.47		
4.935	2225667	2032197	0.913	1.83		
4.982	4789702	3797066	0.793	3.95		
5.044	826880	721939	0.873	0.68		
5.125	501498	442353	0.882	0.41		
5.188	2788492	2447255	0.878	2.30		
5.249	5183401	4627042	0.893	4.28	7 Aroclor 1254	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.299	2442771	2106397	0.862	2.01	
5.372	134227	124410	0.927	0.11	
5.397	451121	405014	0.898	0.37	
5.451	2064599	1865025	0.903	1.70	
5.495	4413391	3873618	0.878	3.64	7 Aroclor 1254
5.535	1577520	1372882	0.870	1.30	
5.566	549194	533397	0.971	0.45	
5.598	7970155	7117081	0.893	6.58	7 Aroclor 1254
5.662	87885	87482	0.995	0.07	
5.693	1180510	1021343	0.865	0.97	
5.762	732311	678795	0.927	0.60	
5.799	1125610	724503	0.644	0.93	
5.828	703800	591107	0.840	0.58	
5.877	8214420	6359617	0.774	6.79	
5.972	757018	588519	0.777	0.62	
6.016	426910	256570	0.601	0.35	
6.081	692903	649912	0.938	0.57	
6.116	5149285	4435916	0.861	4.25	7 Aroclor 1254
6.143	3759729	3047265	0.811	3.10	
6.256	1524034	1242973	0.816	1.25	
6.316	646439	638992	0.988	0.53	
6.330	682990	602967	0.883	0.56	
6.387	6825769	5856692	0.858	5.64	7 Aroclor 1254
6.422	1347092	1142380	0.848	1.11	
6.462	776397	626857	0.807	0.64	
6.527	197829	105255	0.532	0.16	
6.599	265139	261771	0.987	0.21	
6.626	2374159	1799967	0.758	1.96	
6.693	362312	273910	0.756	0.29	
6.750	70647	53585	0.758	0.05	
6.807	449707	390831	0.869	0.37	
6.847	271543	241774	0.890	0.22	
6.890	1362856	1154563	0.847	1.12	
6.932	373063	249053	0.668	0.30	
7.031	128675	106997	0.832	0.10	
7.092	954327	806017	0.845	0.78	
7.164	42706	35715	0.836	0.03	
7.210	34444	22252	0.646	0.02	
7.341	771745	699274	0.906	0.63	
7.370	175527	142349	0.811	0.14	
7.427	12297	11251	0.915	0.01	
7.477	32188	30366	0.943	0.02	
7.532	55927	43748	0.782	0.04	
7.643	46370	34565	0.745	0.03	
7.778	34916	30444	0.872	0.02	
7.816	70350	50730	0.721	0.05	
7.890	28412	24119	0.849	0.02	
7.988	43666	35683	0.817	0.03	
8.364	156964	123274	0.785	0.12	
8.468	12977	11373	0.876	0.01	
8.660	17325772	14627852	0.844	14.32	
9.177	23028	16117	0.700	0.01	
	120968898	106038643		100.000	

Total unknown % area = 76

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618051.D
Lab Smp Id: 1254-CAL5C Client Smp ID: 1254-CAL5C
Inj Date : 06-MAR-2018 17:46
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-cal5c, 185556:1
Misc Info : 17499,NSAR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 17:46 Cal File: 030618051.D
Als bottle: 28 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: NSAR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
7 Aroclor 1254					CAS #: 11097-69-1			
5.249	5.249	0.000	5183400	1.00000	0.91	0.00- 20.00	100.00(M)	BA
5.494	5.496	-0.002	4413390	1.00000	0.94	0.00- 20.00	85.14	BA
5.597	5.598	-0.001	7970155	1.00000	0.92	0.00- 20.00	153.76	BA
6.115	6.117	-0.002	5149284	1.00000	0.96	0.00- 20.00	99.34	BA
6.387	6.388	-0.001	6825769	1.00000	0.93	0.00- 20.00	131.69	BA
Average of Peak Amounts =					0.93200			

QC Flag Legend

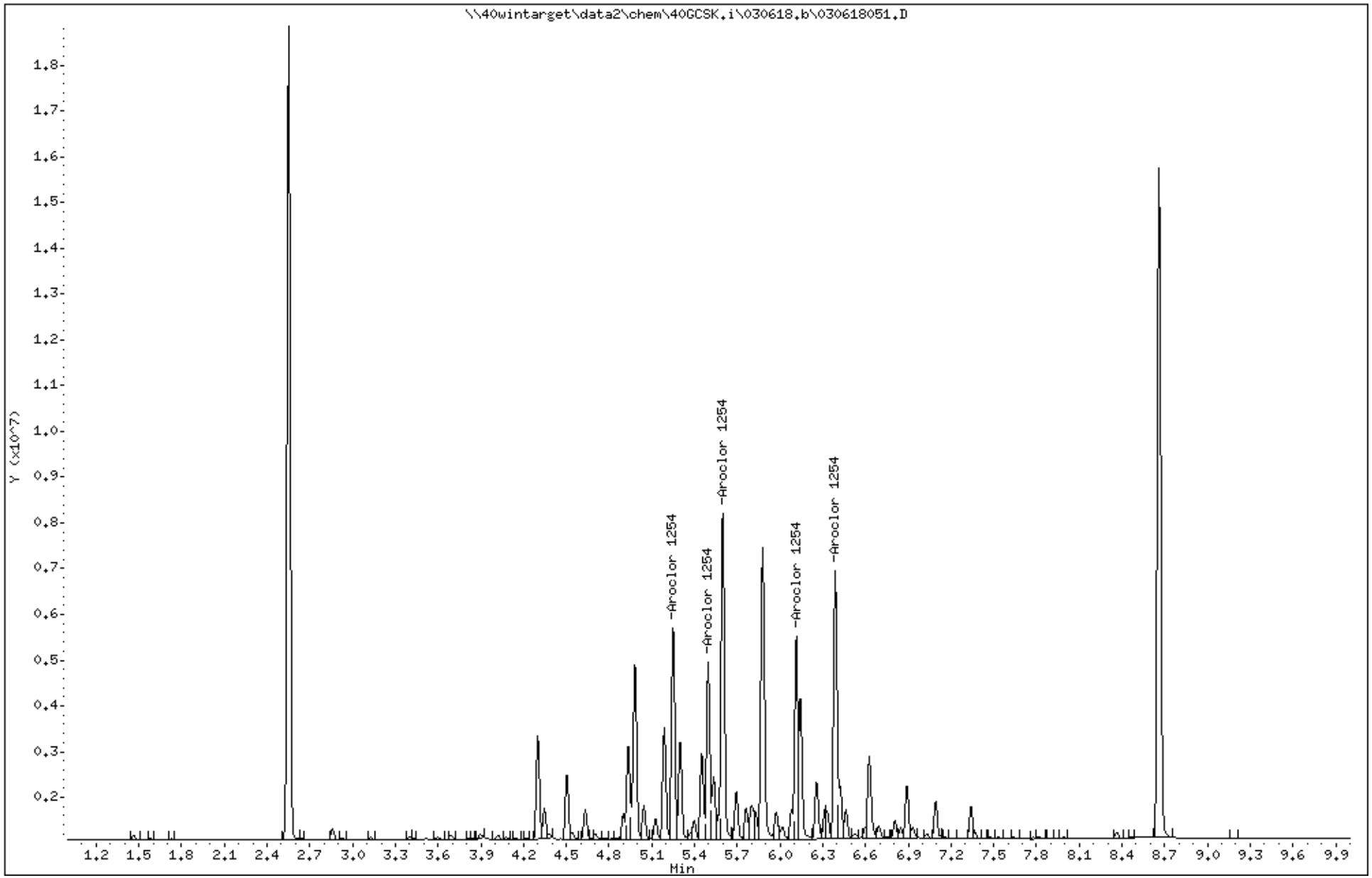
M - Compound response manually integrated.

Review Codes Legend

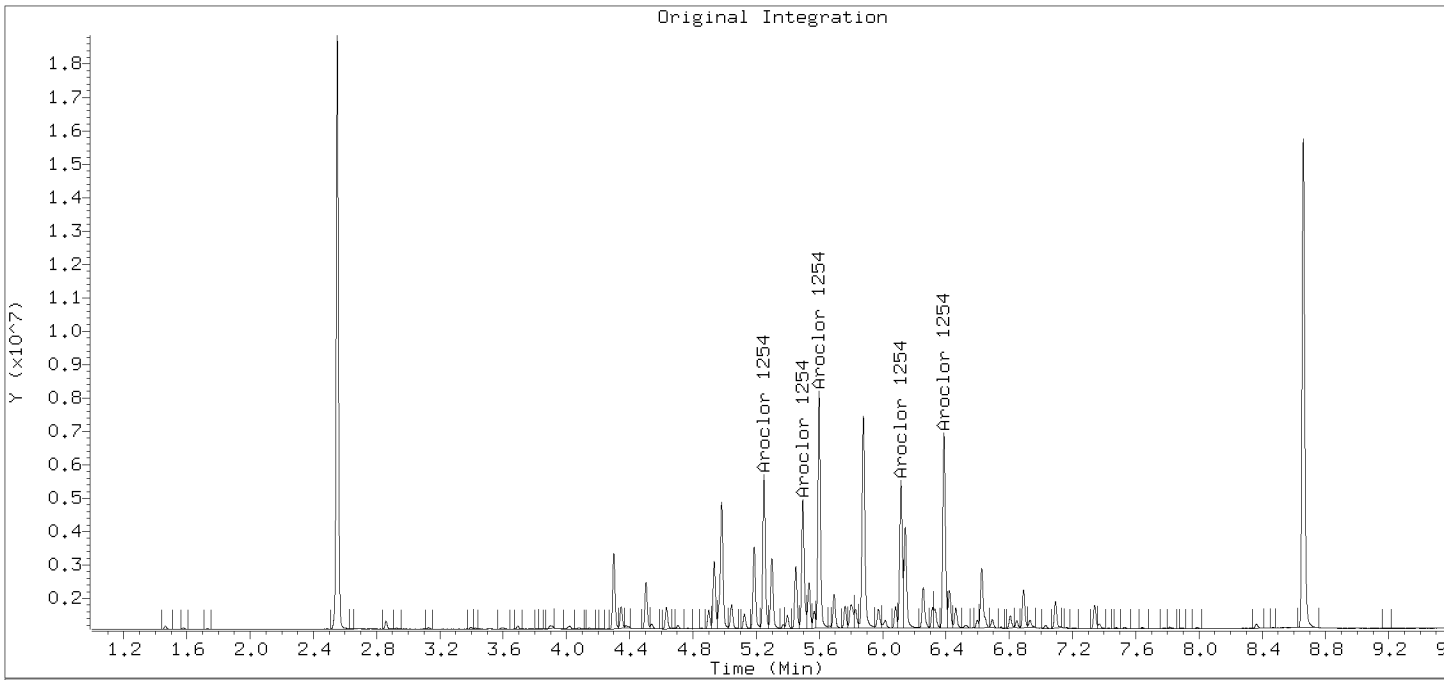
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

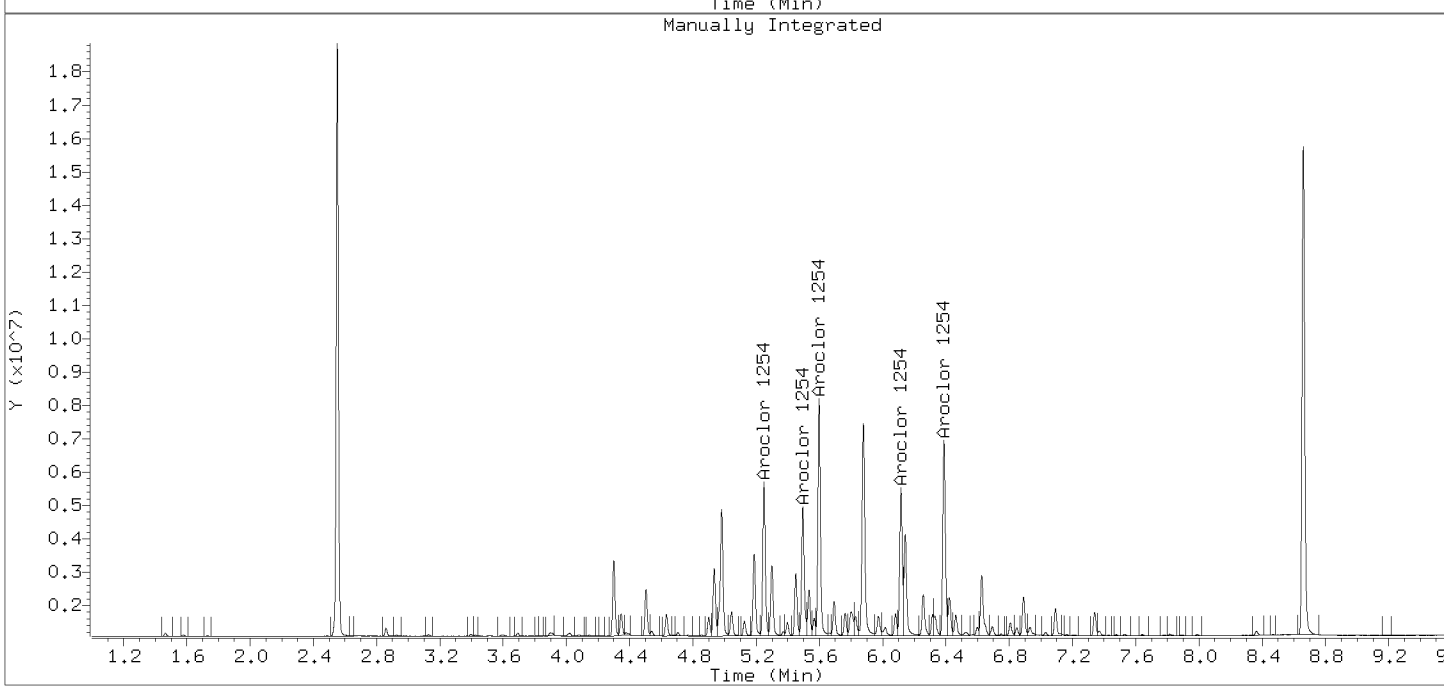
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618051.D
Date : 06-MAR-2018 17:46
Client ID: 1254-CAL5C
Sample Info: 1254-CAL5C, 185556:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618051.D (ManInt: NSAR1254.sub Orig: NSAR1254.sub)
Injection Date: 06-MAR-2018 17:46 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-CAL5C





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	5141751	5183400	BA
Aroclor 1254	5141751	5183400	BA
Aroclor 1254	5141751	5183400	BA
Aroclor 1254	5141751	5183400	BA
Aroclor 1254	5141751	5183400	BA

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618055.D
Lab Smp Id: 1660-CAL1A Client Smp ID: 1660-CAL1A
Inj Date : 06-MAR-2018 18:18
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17499,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:18 Cal File: 030618055.D
Als bottle: 30 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.208	23742	21219	0.894	0.11		
1.468	12966	11277	0.870	0.06		
1.730	19931	22374	1.123	0.09		
2.062	13622	12825	0.942	0.06		
2.471	28347	23886	0.843	0.14		
2.551	1231598	1253583	1.018	6.14	$ 2 Tetrachloro-m-xylene	
2.758	47231	38012	0.805	0.23		
2.863	66867	60077	0.898	0.33		
2.926	241705	218070	0.902	1.20		
3.096	14058	12099	0.861	0.07		
3.131	37846	33637	0.889	0.18		
3.398	327496	316477	0.966	1.63	5 Aroclor 1016	BA
3.425	206930	181382	0.877	1.03		
3.514	60565	49017	0.809	0.30		
3.595	333233	238002	0.714	1.66	5 Aroclor 1016	BA
3.816	87318	84367	0.966	0.43		
3.840	79307	54054	0.682	0.39		
3.911	1003431	565387	0.563	5.00	5 Aroclor 1016	BA
4.015	426651	331992	0.778	2.13	5 Aroclor 1016	BA
4.080	284909	240711	0.845	1.42	5 Aroclor 1016	BA
4.144	113863	83449	0.733	0.56		
4.224	42679	30254	0.709	0.21		
4.301	253751	234826	0.925	1.26		
4.347	218456	205593	0.941	1.09		
4.379	100694	103939	1.032	0.50		
4.396	128387	112198	0.874	0.64		
4.504	295217	283596	0.961	1.47		
4.539	238733	174831	0.732	1.19		
4.634	391843	352555	0.900	1.95		
4.706	99821	82320	0.825	0.49		
4.855	16602	13950	0.840	0.08		
4.902	73418	64860	0.883	0.36		
4.937	112020	98838	0.882	0.55		
4.983	368569	261999	0.711	1.84		
5.046	28191	21012	0.745	0.14		
5.126	21746	19496	0.897	0.10		
5.189	77620	67665	0.872	0.38		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.250	302575	277277	0.916	1.51	
5.301	17489	14672	0.839	0.08	
5.451	24248	18029	0.744	0.12	
5.496	89642	76135	0.849	0.44	
5.567	118496	112118	0.946	0.59	
5.600	205269	181494	0.884	1.02	
5.764	305733	280821	0.919	1.52	
5.800	220991	119272	0.540	1.10	
5.874	792300	681775	0.861	3.95	
5.974	54540	45737	0.839	0.27	
6.016	24172	21868	0.905	0.12	
6.082	127480	120962	0.949	0.63	
6.120	274949	271038	0.986	1.37	
6.144	917025	768553	0.838	4.57	
6.258	539126	334616	0.621	2.69	
6.347	128030	72290	0.565	0.63	
6.388	1058620	878001	0.829	5.28	8 Aroclor 1260
6.423	164296	136951	0.834	0.82	
6.464	46290	33513	0.724	0.23	
6.522	117880	95163	0.807	0.58	
6.598	542190	470065	0.867	2.70	
6.625	88195	101332	1.149	0.44	
6.650	323762	276126	0.853	1.61	
6.693	39931	28807	0.721	0.19	
6.750	101392	92862	0.916	0.50	
6.808	548930	514164	0.937	2.74	
6.849	312137	270021	0.865	1.55	
6.892	249942	214668	0.859	1.24	
6.926	53340	42359	0.794	0.26	
6.956	25650	21293	0.830	0.12	
7.000	33498	31634	0.944	0.16	
7.031	109545	99493	0.908	0.54	
7.094	1248322	1085355	0.869	6.23	8 Aroclor 1260
7.163	50064	34360	0.686	0.24	
7.210	69354	47794	0.689	0.34	
7.341	580029	513477	0.885	2.89	8 Aroclor 1260
7.371	180672	139066	0.770	0.90	
7.479	292721	236729	0.809	1.46	
7.532	358326	294551	0.822	1.78	8 Aroclor 1260
7.636	22248	20638	0.928	0.11	
7.781	142311	125192	0.880	0.71	
7.816	34626	20152	0.582	0.17	
7.886	20082	15573	0.775	0.10	
7.989	328258	265177	0.808	1.63	8 Aroclor 1260
8.053	33127	20705	0.625	0.16	
8.363	78385	68986	0.880	0.39	
8.445	16076	12639	0.786	0.08	
8.660	1456969	1237369	0.849	7.68	$ 12 Decachlorobiphenyl
9.007	18760	15163	0.808	0.09	
9.530	12876	11711	0.910	0.06	
	20030229	16847575		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618055.D
Lab Smp Id: 1660-CAL1A Client Smp ID: 1660-CAL1A
Inj Date : 06-MAR-2018 18:18
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal1a, 188136:1
Misc Info : 17499,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:18 Cal File: 030618055.D
Als bottle: 30 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.551	2.550	0.001	1231597	0.01000	0.010			
5 Aroclor 1016					CAS #: 12674-11-2			
3.398	3.397	0.001	327496	0.10000	0.11	0.00- 20.00	100.00(M)	BA
3.594	3.595	-0.001	333233	0.10000	0.11	0.00- 20.00	101.75	BA
3.910	3.910	0.000	1003431	0.10000	0.11	0.00- 20.00	306.39	BA
4.014	4.013	0.001	426651	0.10000	0.11	0.00- 20.00	130.28	BA
4.079	4.079	0.000	284909	0.10000	0.11	0.00- 20.00	87.00	BA
Average of Peak Amounts =					0.11000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.388	6.388	0.000	1058619	0.10000	0.11	0.00- 20.00	100.00(M)	BA
7.093	7.092	0.001	1248322	0.10000	0.11	0.00- 20.00	117.92	BA
7.341	7.340	0.001	580028	0.10000	0.10	0.00- 20.00	54.79	BA
7.531	7.531	0.000	358325	0.10000	0.11	0.00- 20.00	33.85	BA
7.989	7.988	0.001	328258	0.10000	0.10	0.00- 20.00	31.01	BA
Average of Peak Amounts =					0.10600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.660	8.660	0.000	1456968	0.01000	0.011			

QC Flag Legend

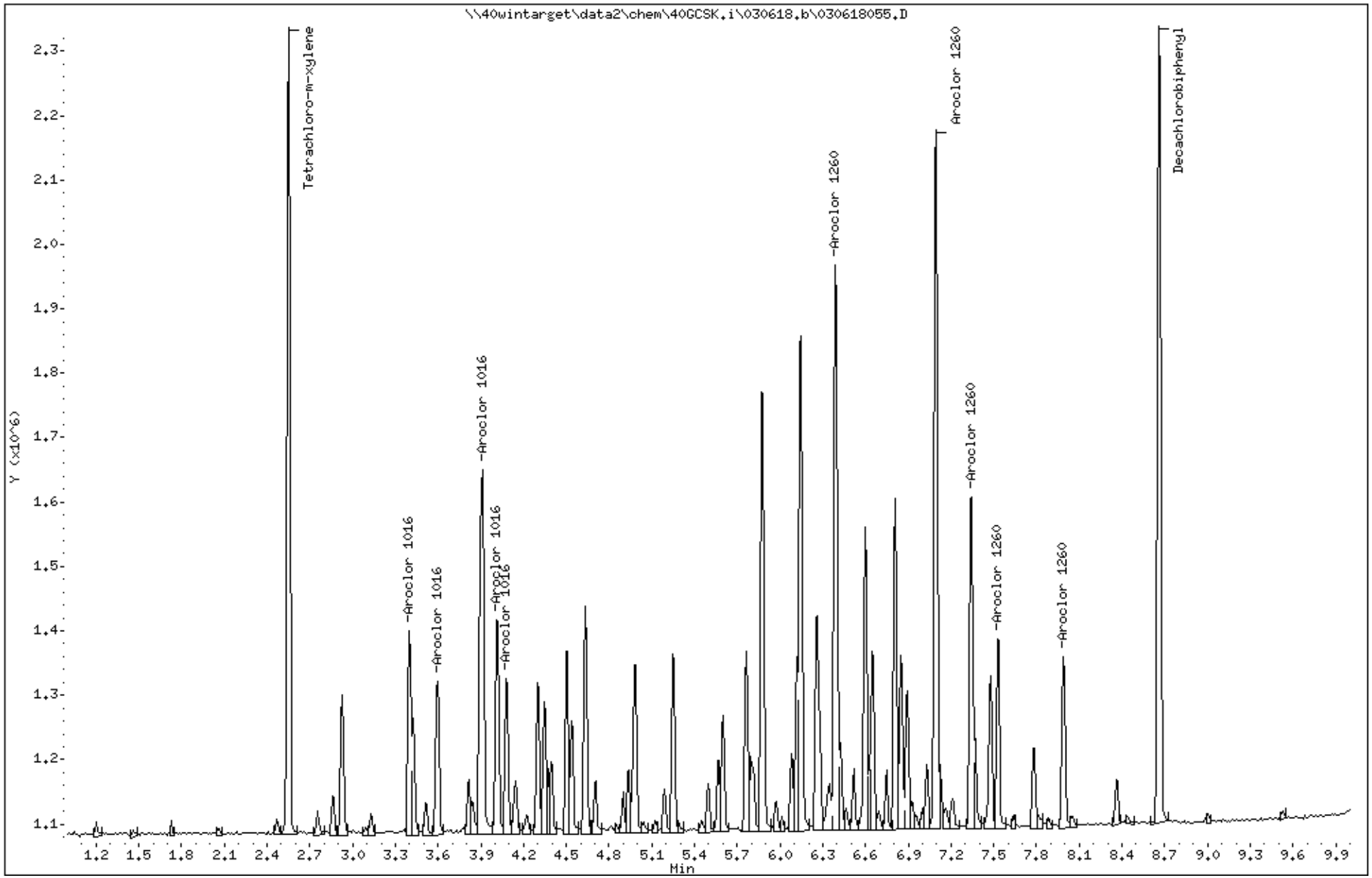
M - Compound response manually integrated.

Review Codes Legend

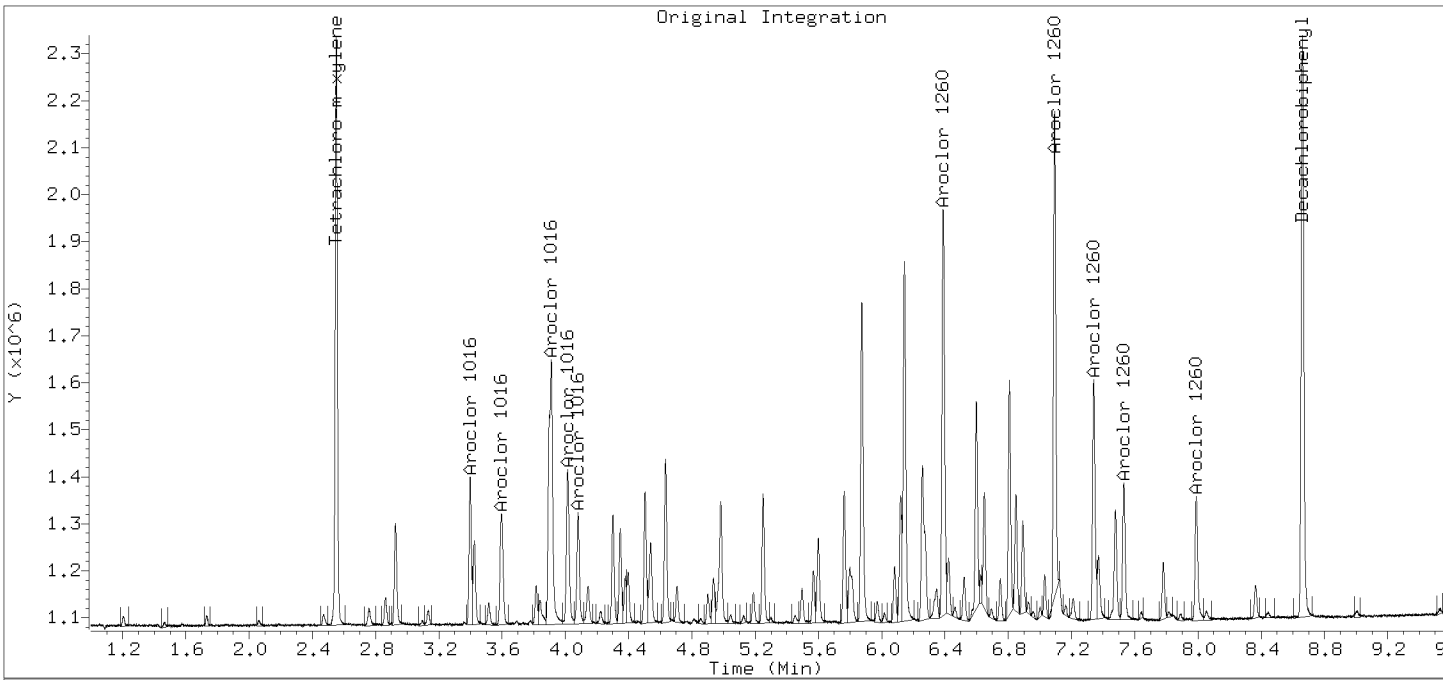
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

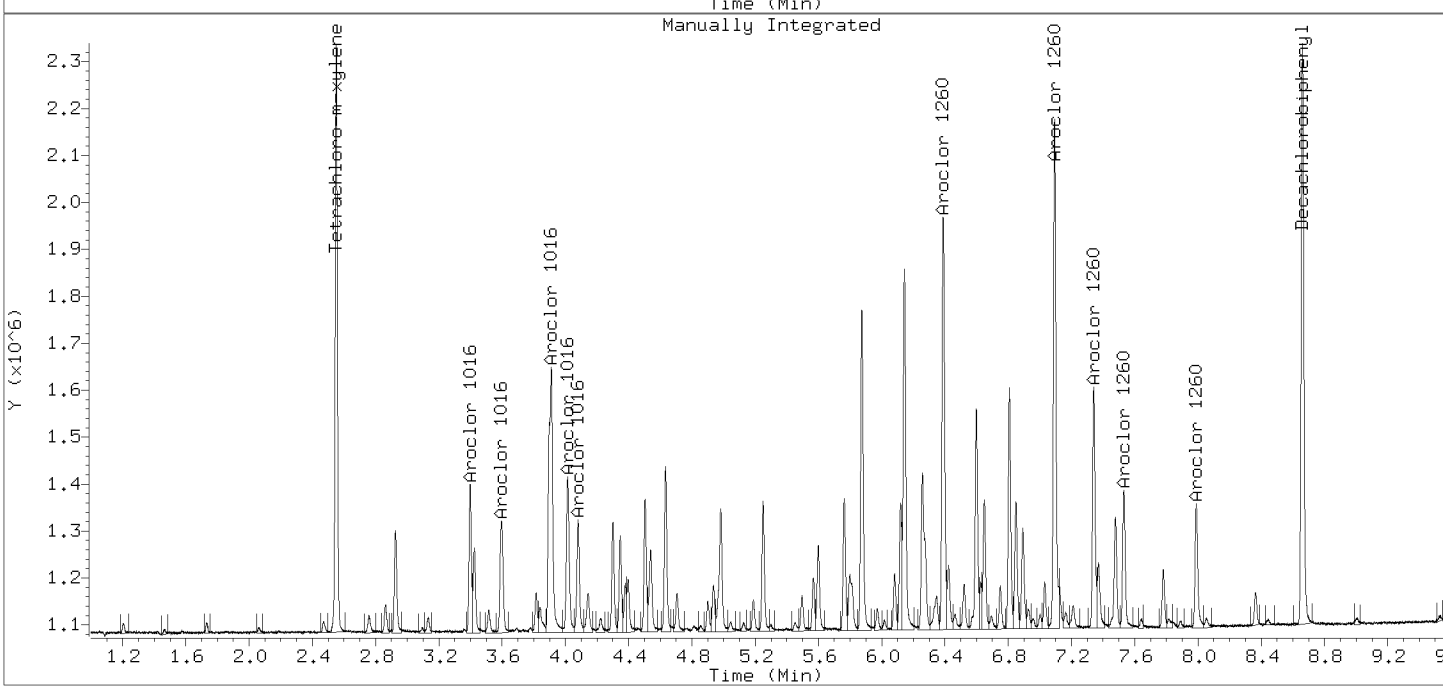
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618055.D
Date : 06-MAR-2018 18:18
Client ID: 1660-CAL1A
Sample Info: 1660-CAL1A, 188136:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618055.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 18:18 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL1A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	321700	327496	BA
Aroclor 1016	321700	327496	BA
Aroclor 1016	321700	327496	BA
Aroclor 1016	321700	327496	BA
Aroclor 1016	321700	327496	BA
Aroclor 1260	1016610	1058619	BA
Aroclor 1260	1016610	1058619	BA
Aroclor 1260	1016610	1058619	BA
Aroclor 1260	1016610	1058619	BA
Aroclor 1260	1016610	1058619	BA
Tetrachloro-m-xylene	1231597	1231597	
Decachlorobiphenyl	1456968	1456968	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618057.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 06-MAR-2018 18:34
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17499,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:34 Cal File: 030618057.D
Als bottle: 31 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.464	13785	14457	1.049	0.03		
1.732	13216	13816	1.045	0.03		
2.469	57992	46229	0.797	0.15		
2.551	2407490	2419128	1.005	6.23	$ 2 Tetrachloro-m-xylene	
2.759	84586	67641	0.800	0.21		
2.863	124348	117925	0.948	0.32		
2.926	469400	428683	0.913	1.21		
3.132	68602	65627	0.957	0.17		
3.398	653826	627422	0.960	1.69	5 Aroclor 1016	BA
3.424	387782	361869	0.933	1.00		
3.516	101370	94375	0.931	0.26		
3.597	653860	471570	0.721	1.69	5 Aroclor 1016	BA
3.689	17417	16994	0.976	0.04		
3.777	19857	17576	0.885	0.05		
3.815	160657	157988	0.983	0.41		
3.841	116640	100628	0.863	0.30		
3.911	1956532	1074164	0.549	5.07	5 Aroclor 1016	BA
4.014	835795	657847	0.787	2.16	5 Aroclor 1016	BA
4.080	549802	487902	0.887	1.42	5 Aroclor 1016	BA
4.144	167110	145737	0.872	0.43		
4.224	64028	57495	0.898	0.16		
4.300	481916	461707	0.958	1.24		
4.346	429000	404791	0.944	1.11		
4.379	179111	183259	1.023	0.46		
4.396	235651	208157	0.883	0.61		
4.504	587382	565398	0.963	1.52		
4.539	460526	335894	0.729	1.19		
4.633	785768	700778	0.892	2.03		
4.706	183508	156199	0.851	0.47		
4.812	31674	23715	0.749	0.08		
4.855	25079	24661	0.983	0.06		
4.900	139731	125090	0.895	0.36		
4.935	221691	194754	0.878	0.57		
4.983	700480	530474	0.757	1.81		
5.046	54613	38839	0.711	0.14		
5.127	40598	35812	0.882	0.10		
5.188	149670	130036	0.869	0.38		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.250	592525	535874	0.904	1.53	
5.299	33733	27240	0.808	0.08	
5.453	37787	35311	0.934	0.09	
5.498	158289	145789	0.921	0.41	
5.567	229174	216926	0.947	0.59	
5.599	404184	355971	0.881	1.04	
5.764	593337	564664	0.952	1.53	
5.797	392547	230399	0.587	1.01	
5.875	1520828	1305239	0.858	3.94	
5.973	106641	89979	0.844	0.27	
6.016	48562	39789	0.819	0.12	
6.081	251753	226057	0.898	0.65	
6.120	539193	553109	1.026	1.39	
6.144	1779650	1474387	0.828	4.61	
6.258	1067893	673314	0.631	2.76	
6.347	249314	142359	0.571	0.64	
6.389	2049148	1675567	0.818	5.31	8 Aroclor 1260
6.423	317488	263736	0.831	0.82	
6.465	92888	64304	0.692	0.24	
6.522	216712	181051	0.835	0.56	
6.574	43872	57016	1.300	0.11	
6.599	1015251	904559	0.891	2.63	
6.626	181882	197373	1.085	0.47	
6.650	638890	555959	0.870	1.65	
6.695	74654	54596	0.731	0.19	
6.751	194456	173713	0.893	0.50	
6.808	1082195	963350	0.890	2.80	
6.848	613074	529113	0.863	1.58	
6.893	493813	426724	0.864	1.27	
6.928	95388	81123	0.850	0.24	
6.958	50003	40639	0.813	0.12	
7.003	66807	63050	0.944	0.17	
7.032	211789	184743	0.872	0.54	
7.094	2363150	2091095	0.885	6.12	8 Aroclor 1260
7.122	182764	170234	0.931	0.47	
7.164	92478	64019	0.692	0.23	
7.212	105092	85899	0.817	0.27	
7.340	1144456	1006989	0.880	2.96	8 Aroclor 1260
7.371	360407	271366	0.753	0.93	
7.479	572348	469646	0.821	1.48	
7.532	714584	607295	0.850	1.85	8 Aroclor 1260
7.643	54199	38484	0.710	0.14	
7.781	275281	240871	0.875	0.71	
7.816	53491	34777	0.650	0.13	
7.889	34740	26391	0.760	0.09	
7.989	643013	539218	0.839	1.66	8 Aroclor 1260
8.055	63222	37979	0.601	0.16	
8.365	173833	139988	0.805	0.45	
8.661	2666426	2216544	0.831	7.30	$ 12 Decachlorobiphenyl
9.529	12194	11664	0.957	0.03	
	38585893	32650119		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618057.D
Lab Smp Id: 1660-CAL2A Client Smp ID: 1660-CAL2A
Inj Date : 06-MAR-2018 18:34
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal2a, 185558:1
Misc Info : 17499,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:34 Cal File: 030618057.D
Als bottle: 31 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.551	2.550	0.001	2407489	0.02000	0.020			
5 Aroclor 1016					CAS #: 12674-11-2			
3.397	3.397	0.000	653825	0.20000	0.21	0.00- 20.00	100.00(M)	BA
3.596	3.595	0.001	653860	0.20000	0.21	0.00- 20.00	100.01	BA
3.910	3.910	0.000	1956532	0.20000	0.21	0.00- 20.00	299.24	BA
4.014	4.013	0.001	835794	0.20000	0.21	0.00- 20.00	127.83	BA
4.079	4.079	0.000	549801	0.20000	0.21	0.00- 20.00	84.09	BA
Average of Peak Amounts =					0.21000			
8 Aroclor 1260					CAS #: 11096-82-5			
6.389	6.388	0.001	2049147	0.20000	0.21	0.00- 20.00	100.00(M)	CO
7.093	7.092	0.001	2363149	0.20000	0.20	0.00- 20.00	115.32	CO
7.339	7.340	-0.001	1144455	0.20000	0.21	0.00- 20.00	55.85	CO
7.531	7.531	0.000	714584	0.20000	0.21	0.00- 20.00	34.87	CO
7.989	7.988	0.001	643013	0.20000	0.21	0.00- 20.00	31.38	CO
Average of Peak Amounts =					0.20800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.660	8.660	0.000	2666425	0.02000	0.021			

QC Flag Legend

M - Compound response manually integrated.

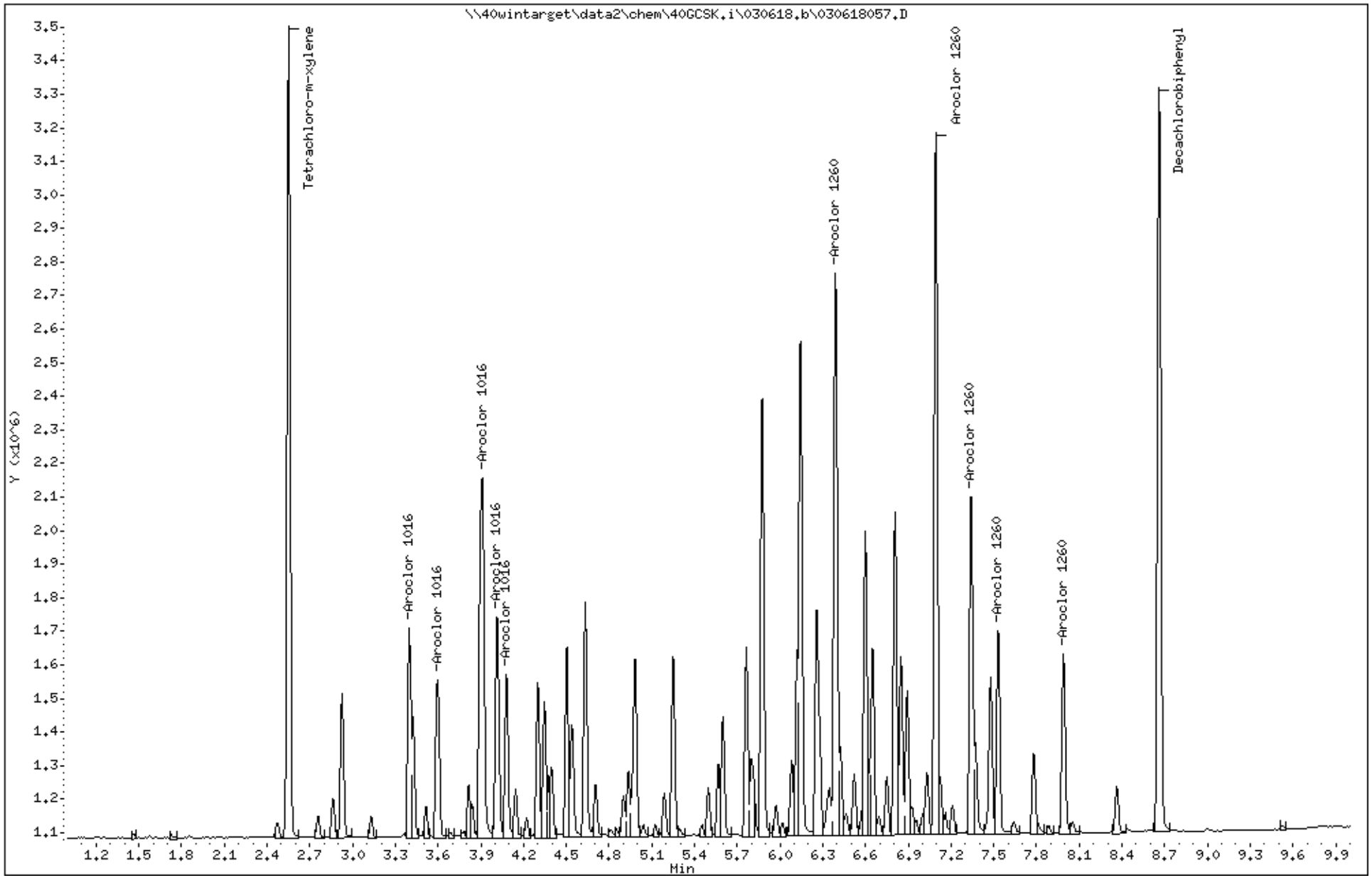
QC Flag Legend

Review Codes Legend

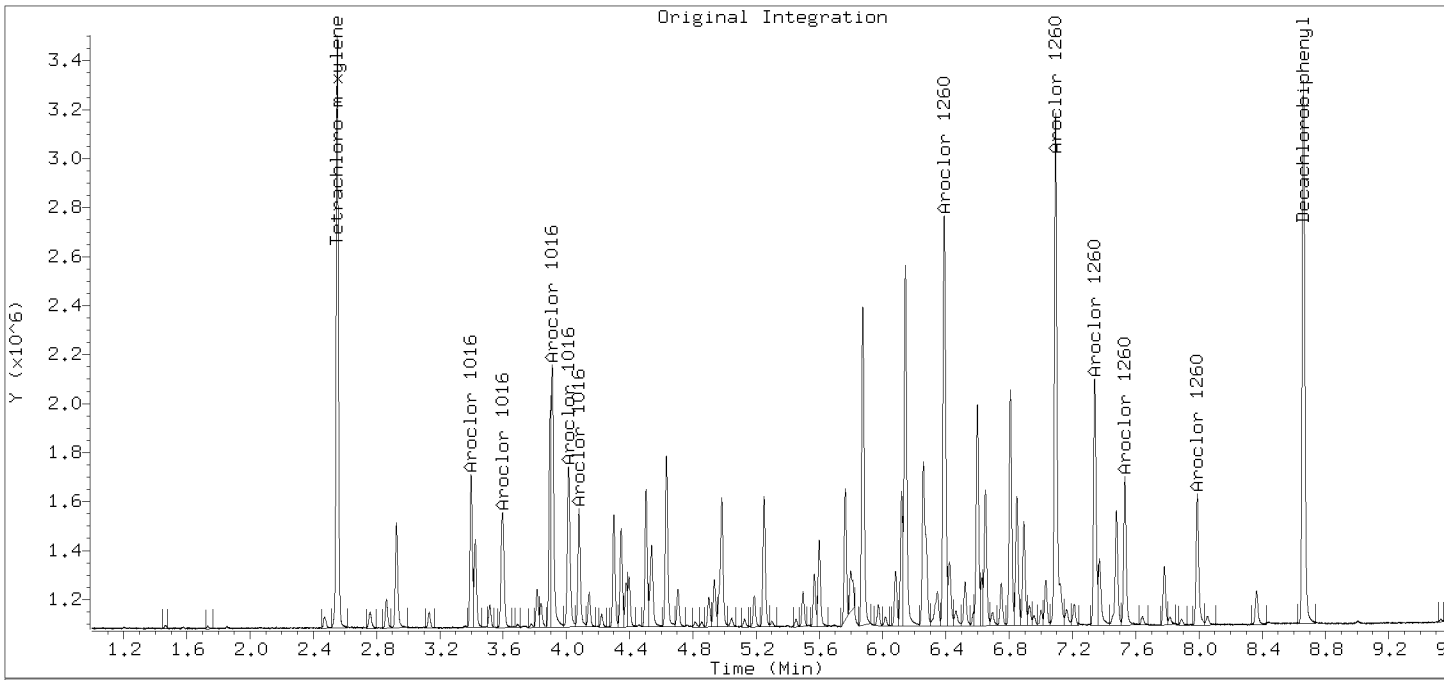
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

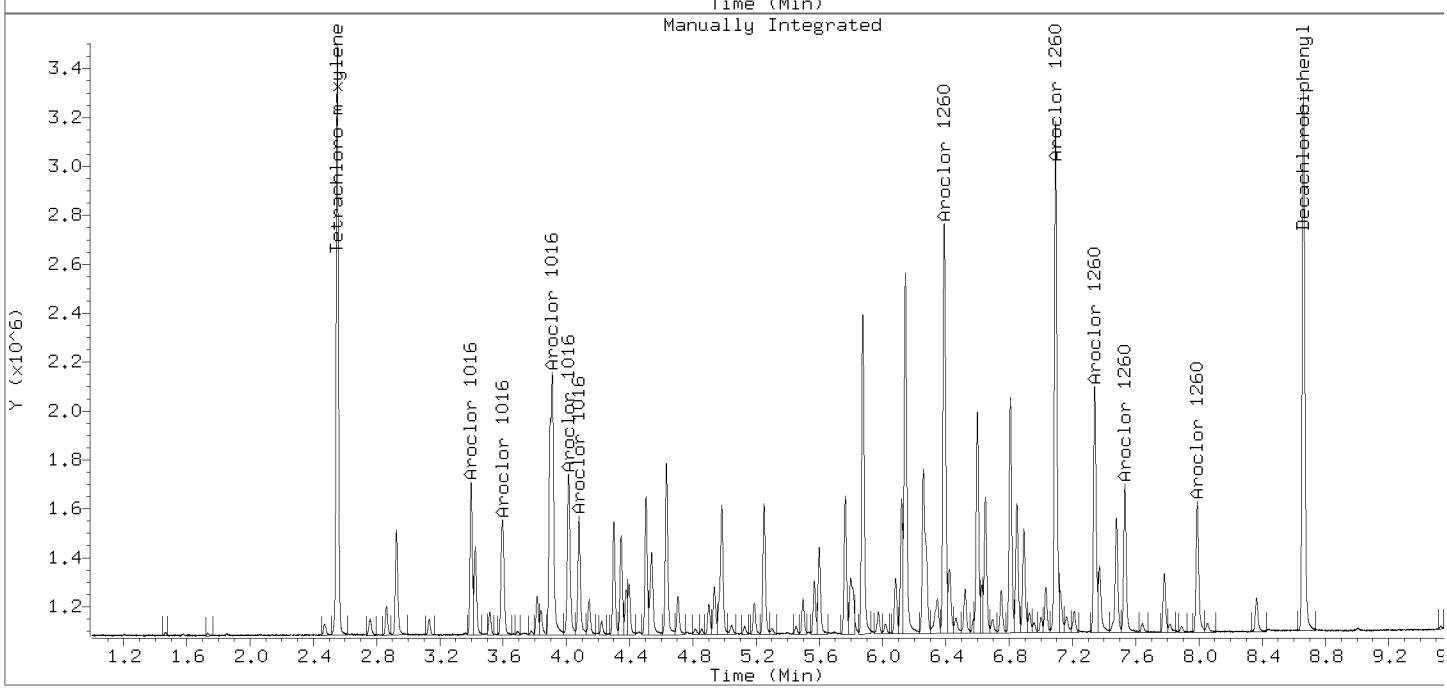
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618057.D
Date : 06-MAR-2018 18:34
Client ID: 1660-CAL2A
Sample Info: 1660-CAL2A, 185558:1

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



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618057.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 18:34 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL2A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	645608	653825	BA
Aroclor 1016	645608	653825	BA
Aroclor 1016	645608	653825	BA
Aroclor 1016	645608	653825	BA
Aroclor 1016	645608	653825	BA
Aroclor 1260	2043752	2049147	CO
Aroclor 1260	2043752	2049147	CO
Aroclor 1260	2043752	2049147	CO
Aroclor 1260	2043752	2049147	CO
Aroclor 1260	2043752	2049147	CO
Tetrachloro-m-xylene	2407489	2407489	
Decachlorobiphenyl	2666425	2666425	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618059.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 06-MAR-2018 18:51
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17499,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 18:51 Cal File: 030618059.D
Als bottle: 32 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.205	17422	16477	0.946	0.01		
1.464	29983	33254	1.109	0.03		
1.576	25894	18265	0.705	0.02		
1.730	23003	26438	1.149	0.02		
1.855	20483	16160	0.789	0.02		
2.063	13354	9370	0.702	0.01		
2.470	130931	106878	0.816	0.14		
2.551	5741612	5761776	1.004	6.36	$ 2 Tetrachloro-m-xylene	
2.760	188010	152085	0.809	0.20		
2.863	288397	271798	0.942	0.31		
2.925	1086866	1003808	0.924	1.20		
3.131	156885	144354	0.920	0.17		
3.361	23714	18166	0.766	0.02		
3.397	1483614	1392060	0.938	1.64	5 Aroclor 1016	BA
3.424	929480	836769	0.900	1.03		
3.516	246643	212973	0.863	0.27		
3.596	1520973	1103744	0.726	1.68	5 Aroclor 1016	BA
3.693	39645	36825	0.929	0.04		
3.729	28441	17950	0.631	0.03		
3.778	42486	42521	1.001	0.04		
3.814	385190	376256	0.977	0.42		
3.839	286791	234541	0.818	0.31		
3.910	4509874	2536572	0.562	4.99	5 Aroclor 1016	BA
4.013	1923009	1513474	0.787	2.13	5 Aroclor 1016	BA
4.079	1285269	1166724	0.908	1.42	5 Aroclor 1016	BA
4.144	383851	335915	0.875	0.42		
4.223	162422	128608	0.792	0.18		
4.300	1109387	1052414	0.949	1.22		
4.347	1001002	953024	0.952	1.10		
4.379	425629	427924	1.005	0.47		
4.395	553270	503260	0.910	0.61		
4.461	36724	24511	0.667	0.04		
4.504	1355804	1283791	0.947	1.50		
4.539	1090749	801370	0.735	1.20		
4.633	1805459	1599165	0.886	2.00		
4.706	411168	375176	0.912	0.45		
4.767	28946	22395	0.774	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.814	65529	52221	0.797	0.07	
4.857	58913	50060	0.850	0.06	
4.900	320403	299801	0.936	0.35	
4.935	516607	478851	0.927	0.57	
4.982	1629164	1186213	0.728	1.80	
5.044	110904	84342	0.760	0.12	
5.127	90579	79999	0.883	0.10	
5.189	337733	293391	0.869	0.37	
5.249	1356497	1232419	0.909	1.50	
5.299	68923	51610	0.749	0.07	
5.451	88524	79382	0.897	0.09	
5.495	367296	332093	0.904	0.40	
5.532	14953	17482	1.169	0.01	
5.568	522232	503710	0.965	0.57	
5.598	954933	863313	0.904	1.05	
5.692	17772	15289	0.860	0.01	
5.763	1380200	1315570	0.953	1.53	
5.798	997142	550098	0.552	1.10	
5.875	3449810	2931491	0.850	3.82	
5.971	233755	203433	0.870	0.25	
6.017	109569	90080	0.822	0.12	
6.081	585345	556110	0.950	0.64	
6.120	1294423	1284595	0.992	1.43	
6.144	3965263	3364936	0.849	4.39	
6.258	2535152	1571917	0.620	2.81	
6.346	573556	318669	0.556	0.63	
6.389	4760259	3968146	0.834	5.27	8 Aroclor 1260
6.423	748268	641630	0.857	0.82	
6.464	194603	144919	0.745	0.21	
6.520	492450	423773	0.861	0.54	
6.575	103790	129493	1.248	0.11	
6.599	2320186	2073605	0.894	2.57	
6.627	440799	480986	1.091	0.48	
6.650	1491118	1301555	0.873	1.65	
6.693	163466	128798	0.788	0.18	
6.750	455018	426716	0.938	0.50	
6.808	2509803	2199258	0.876	2.78	
6.849	1420585	1260560	0.887	1.57	
6.892	1204062	1029654	0.855	1.33	
6.928	212884	184822	0.868	0.23	
6.957	110165	92739	0.842	0.12	
7.003	152175	142099	0.934	0.16	
7.032	499946	461121	0.922	0.55	
7.093	5613089	4946951	0.881	6.22	8 Aroclor 1260
7.122	396977	384784	0.969	0.44	
7.162	195085	144078	0.739	0.21	
7.211	235903	199346	0.845	0.26	
7.341	2744092	2426154	0.884	3.04	8 Aroclor 1260
7.370	836869	662009	0.791	0.92	
7.478	1354750	1139033	0.841	1.50	
7.532	1673901	1397092	0.835	1.85	8 Aroclor 1260
7.642	130302	99098	0.761	0.14	
7.781	672580	611119	0.909	0.74	
7.817	116730	79747	0.683	0.12	
7.889	72833	58035	0.797	0.08	
7.989	1544170	1314153	0.851	1.71	8 Aroclor 1260
8.053	115978	85096	0.734	0.12	

Data File: ...wintarget\data2\chem\40GCSK.i\030618.b\030618059.D Page 3
Report Date: 23-Mar-2018 13:21

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.363	404965	343518	0.848	0.44	
8.441	10709	9225	0.861	0.01	
8.660	6360166	5349784	0.841	7.53	$ 12 Decachlorobiphenyl
9.173	10934	9124	0.834	0.01	
	90207170	76712086		100.000	

Total unknown % area = 56

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618059.D
Lab Smp Id: 1660-CAL3A Client Smp ID: 1660-CAL3A
Inj Date : 06-MAR-2018 18:51
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal3a, 185559:1
Misc Info : 17499,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 18:51 Cal File: 030618059.D
Als bottle: 32 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.550	2.550	0.000	5741612	0.05000	0.048			
5 Aroclor 1016					CAS #: 12674-11-2			
3.396	3.397	-0.001	1483614	0.50000	0.49	0.00- 20.00	100.00(M)	BA
3.595	3.595	0.000	1520973	0.50000	0.49	0.00- 20.00	102.52	BA
3.910	3.910	0.000	4509873	0.50000	0.48	0.00- 20.00	303.98	BA
4.013	4.013	0.000	1923009	0.50000	0.49	0.00- 20.00	129.62	BA
4.079	4.079	0.000	1285269	0.50000	0.48	0.00- 20.00	86.63	BA
Average of Peak Amounts =					0.48600			
8 Aroclor 1260					CAS #: 11096-82-5			
6.389	6.388	0.001	4760258	0.50000	0.48	0.00- 20.00	100.00(M)	BA
7.092	7.092	0.000	5613088	0.50000	0.49	0.00- 20.00	117.92	BA
7.340	7.340	0.000	2744091	0.50000	0.50	0.00- 20.00	57.65	BA
7.531	7.531	0.000	1673900	0.50000	0.50	0.00- 20.00	35.16	BA
7.988	7.988	0.000	1544170	0.50000	0.50	0.00- 20.00	32.44	BA
Average of Peak Amounts =					0.49400			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.659	8.660	-0.001	6360165	0.05000	0.049			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618059.D

Date : 06-MAR-2018 18:51

Client ID: 1660-CAL3A

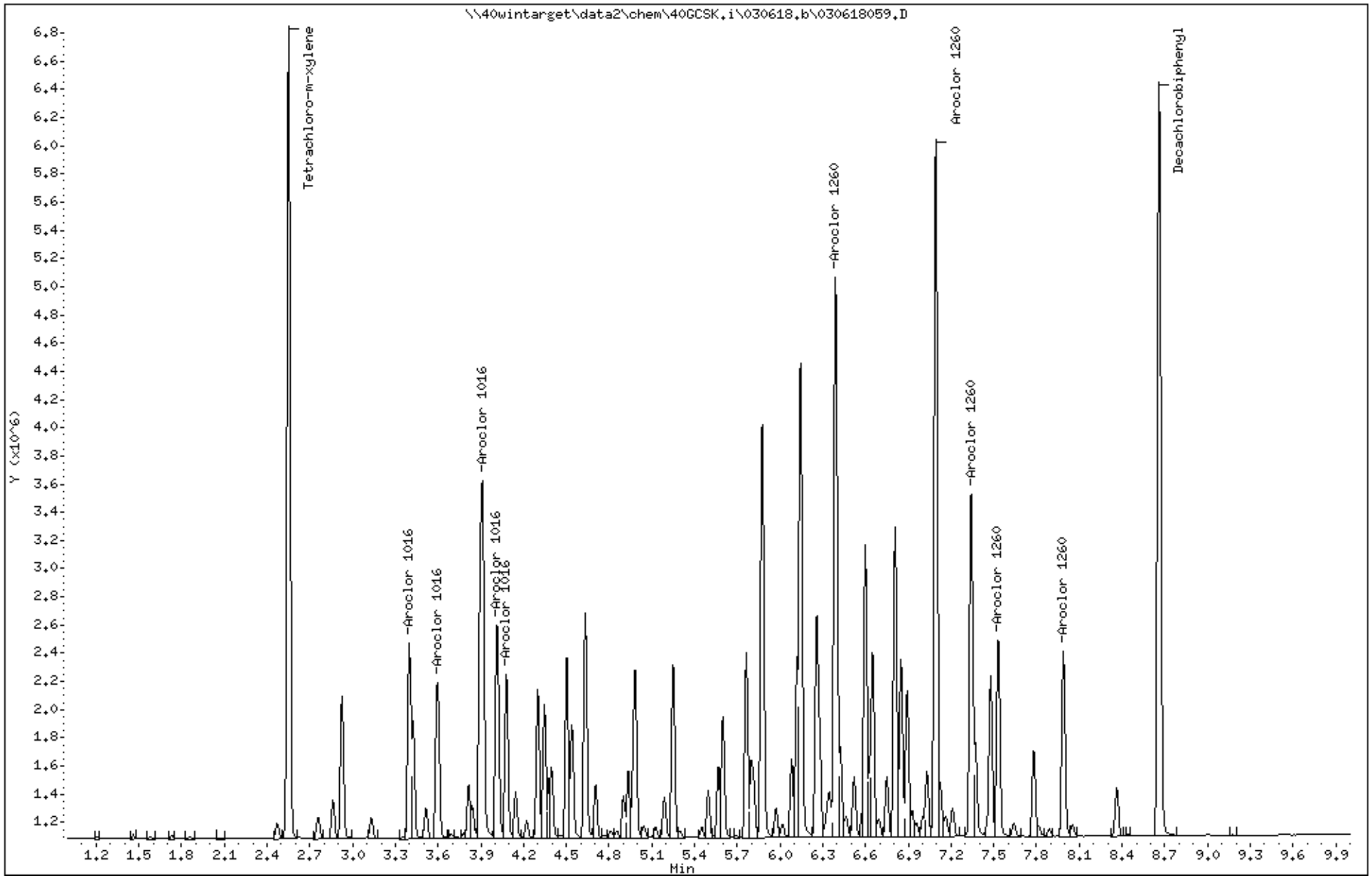
Instrument: 40GCSK.i

Sample Info: 1660-CAL3A, 185559:1

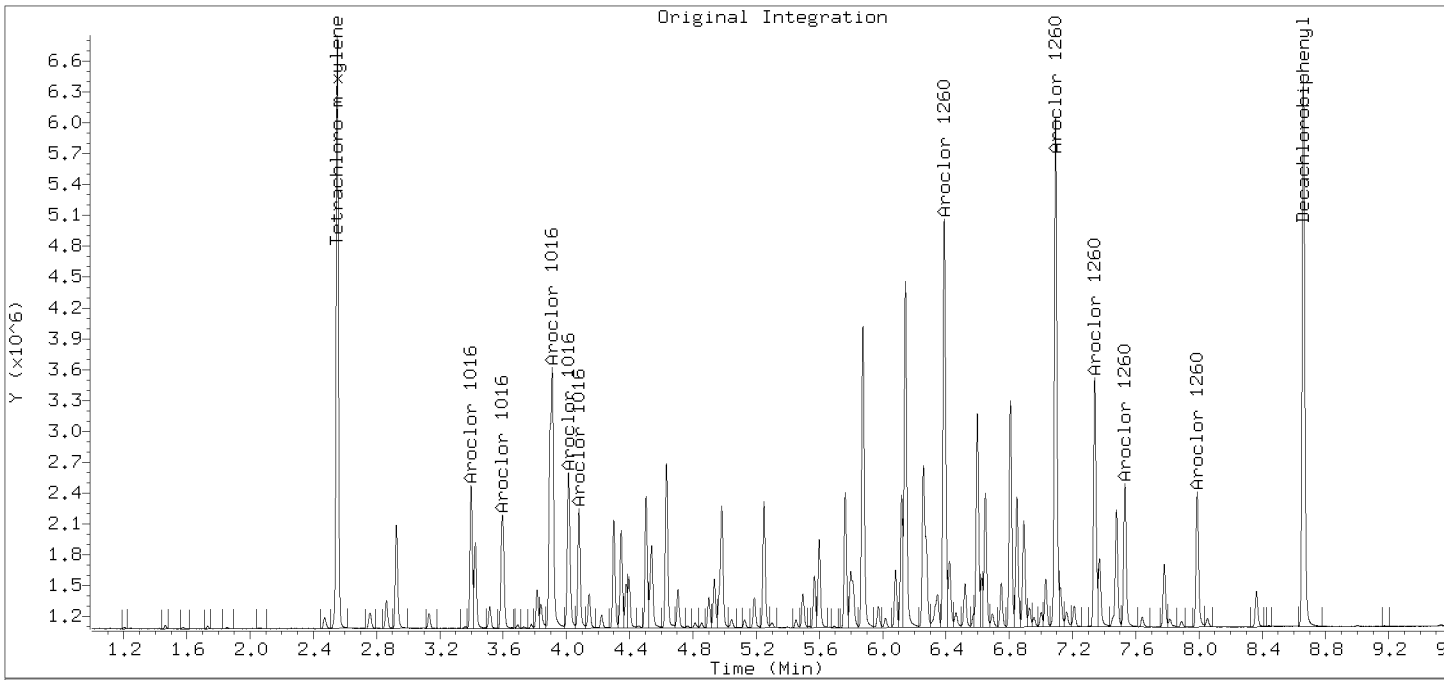
Operator: BLM

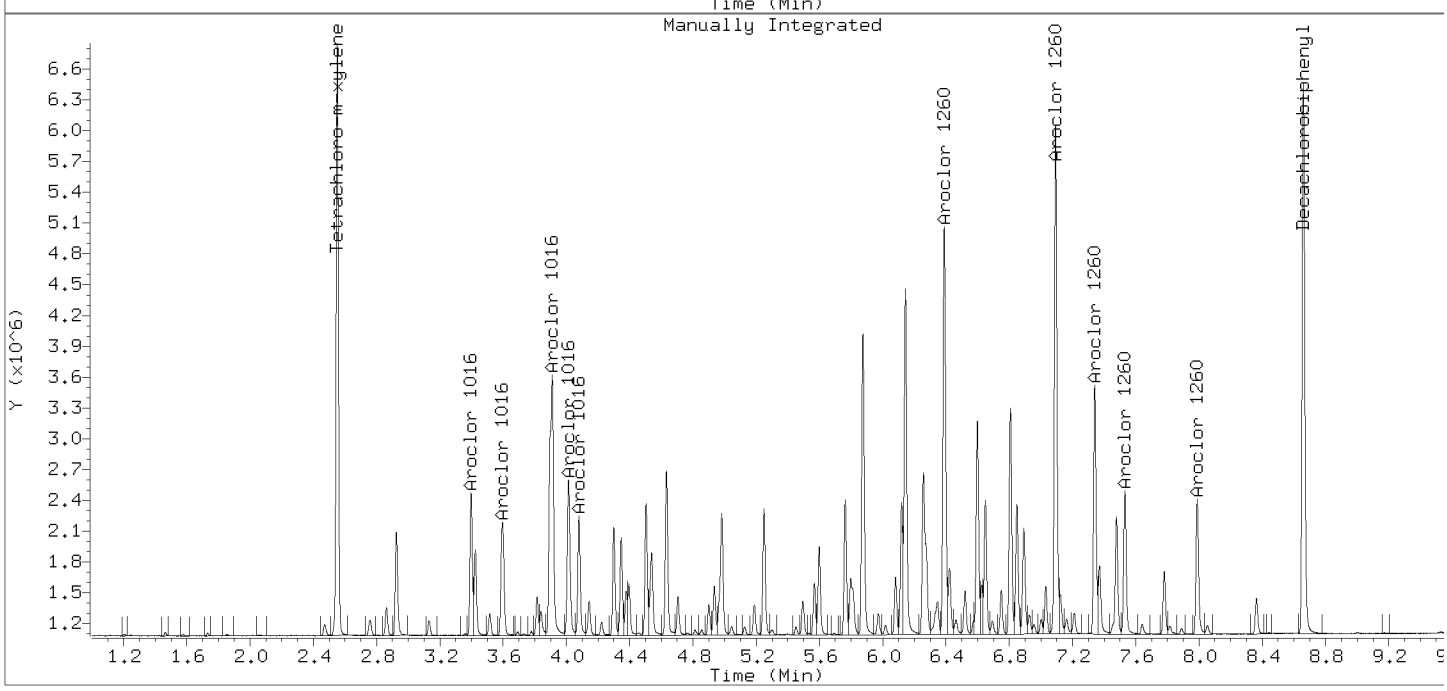
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618059.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 18:51 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL3A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1479038	1483614	BA
Aroclor 1016	1479038	1483614	BA
Aroclor 1016	1479038	1483614	BA
Aroclor 1016	1479038	1483614	BA
Aroclor 1016	1479038	1483614	BA
Aroclor 1260	4756036	4760258	BA
Aroclor 1260	4756036	4760258	BA
Aroclor 1260	4756036	4760258	BA
Aroclor 1260	4756036	4760258	BA
Aroclor 1260	4756036	4760258	BA
Tetrachloro-m-xylene	5741612	5741612	
Decachlorobiphenyl	6360165	6360165	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618061.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 06-MAR-2018 19:07
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17499,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:07 Cal File: 030618061.D
Als bottle: 33 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.204	19095	19892	1.042	0.01		
1.464	68196	70098	1.028	0.04		
1.576	29423	27706	0.942	0.02		
1.732	23162	23271	1.005	0.01		
1.854	28599	23922	0.836	0.01		
2.062	11885	11726	0.987	0.00		
2.471	209890	171298	0.816	0.14		
2.551	11647995	11906173	1.022	8.01	$ 2 Tetrachloro-m-xylene	
2.637	12275	9541	0.777	0.00		
2.758	300516	245332	0.816	0.20		
2.862	495742	471569	0.951	0.34		
2.925	1704376	1574907	0.924	1.17		
3.096	10308	9491	0.921	0.00		
3.132	241849	235453	0.974	0.16		
3.359	33709	27507	0.816	0.02		
3.397	2301203	2153981	0.936	1.58	5 Aroclor 1016	BA
3.424	1430538	1286559	0.899	0.98		
3.515	382264	345901	0.905	0.26		
3.596	2372512	1695668	0.715	1.63	5 Aroclor 1016	BA
3.693	68953	66869	0.970	0.04		
3.728	40982	25220	0.615	0.02		
3.778	64163	61684	0.961	0.04		
3.814	612583	613440	1.001	0.42		
3.839	432499	386216	0.893	0.29		
3.910	7112187	4058851	0.571	4.89	5 Aroclor 1016	BA
4.014	2991037	2432502	0.813	2.05	5 Aroclor 1016	BA
4.079	2039566	1797056	0.881	1.40	5 Aroclor 1016	BA
4.145	600451	531209	0.885	0.41		
4.222	226895	196249	0.865	0.15		
4.300	1725122	1586246	0.919	1.18		
4.347	1564968	1476027	0.943	1.07		
4.378	656464	690034	1.051	0.45		
4.396	876760	780297	0.890	0.60		
4.458	54441	37244	0.684	0.03		
4.504	2108653	1989683	0.944	1.45		
4.540	1711267	1246496	0.728	1.17		
4.633	2823066	2464649	0.873	1.94		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.705	653483	587460	0.899	0.44	
4.766	50149	34746	0.693	0.03	
4.813	106690	82573	0.774	0.07	
4.856	88500	81194	0.917	0.06	
4.900	528189	488037	0.924	0.36	
4.934	818525	773783	0.945	0.56	
4.982	2537149	1842985	0.726	1.74	
5.045	190051	131065	0.690	0.13	
5.126	157062	127583	0.812	0.10	
5.188	541017	475922	0.880	0.37	
5.249	2106949	1866789	0.886	1.44	
5.298	103509	82965	0.802	0.07	
5.394	24672	20388	0.826	0.01	
5.451	148092	127528	0.861	0.10	
5.496	591815	550600	0.930	0.40	
5.567	838686	784164	0.935	0.57	
5.598	1511416	1339258	0.886	1.03	
5.693	30853	23274	0.754	0.02	
5.763	2145073	1989649	0.928	1.47	
5.797	1449133	863051	0.596	0.99	
5.874	5342918	4597142	0.860	3.67	
5.972	365203	325491	0.891	0.25	
6.017	174517	146155	0.837	0.12	
6.081	930535	864357	0.929	0.64	
6.119	1970988	1951135	0.990	1.35	
6.143	6137979	5227316	0.852	4.22	
6.257	3906679	2433439	0.623	2.68	
6.347	895645	518560	0.579	0.61	
6.389	7453138	6191249	0.831	5.12	8 Aroclor 1260
6.423	1153933	999443	0.866	0.79	
6.464	308987	221299	0.716	0.21	
6.521	774137	682087	0.881	0.53	
6.573	168759	204297	1.211	0.11	
6.599	3580041	3138061	0.877	2.46	
6.627	729120	764092	1.048	0.50	
6.649	2277786	2016541	0.885	1.56	
6.694	268518	204603	0.762	0.18	
6.749	737186	670719	0.910	0.50	
6.807	3880524	3483853	0.898	2.66	
6.849	2197513	1910474	0.869	1.51	
6.892	1858733	1607924	0.865	1.27	
6.927	349848	293741	0.840	0.24	
6.957	177902	148172	0.833	0.12	
7.001	239417	228076	0.953	0.16	
7.031	804674	735054	0.913	0.55	
7.093	8766684	7900410	0.901	6.03	8 Aroclor 1260
7.123	636662	600664	0.943	0.43	
7.161	304690	224175	0.736	0.20	
7.210	384144	312074	0.812	0.26	
7.341	4268002	3859506	0.904	2.93	8 Aroclor 1260
7.370	1279201	1034945	0.809	0.88	
7.478	2081079	1684671	0.810	1.43	
7.531	2539493	2199751	0.866	1.74	8 Aroclor 1260
7.641	193212	149049	0.771	0.13	
7.780	1050346	925808	0.881	0.72	
7.815	174145	124809	0.717	0.11	
7.890	105380	85252	0.809	0.07	

Data File: ...wintarget\data2\chem\40GCSK.i\030618.b\030618061.D Page 3
Report Date: 23-Mar-2018 13:21

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.988	2365937	1997906	0.844	1.62	8 Aroclor 1260
8.054	176812	131476	0.744	0.12	
8.363	639060	563517	0.882	0.43	
8.609	12752	10557	0.828	0.00	
8.661	11983438	10193405	0.851	8.74	$ 12 Decachlorobiphenyl
9.003	25650	15487	0.604	0.01	
9.528	14433	13527	0.937	0.00	
	145340406	124613250		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618061.D
Lab Smp Id: 1660-CAL4A Client Smp ID: 1660-CAL4A
Inj Date : 06-MAR-2018 19:07
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal4a, 185560:1
Misc Info : 17499,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:07 Cal File: 030618061.D
Als bottle: 33 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.551	2.550	0.001	11647995	0.10000	0.098			
5 Aroclor 1016					CAS #: 12674-11-2			
3.397	3.397	0.000	2301202	0.80000	0.76	0.00- 20.00	100.00(M)	BA
3.595	3.595	0.000	2372511	0.80000	0.76	0.00- 20.00	103.10	BA
3.910	3.910	0.000	7112187	0.80000	0.76	0.00- 20.00	309.06	BA
4.013	4.013	0.000	2991037	0.80000	0.76	0.00- 20.00	129.98	BA
4.079	4.079	0.000	2039565	0.80000	0.77	0.00- 20.00	88.63	BA
Average of Peak Amounts =					0.76200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.389	6.388	0.001	7453138	0.80000	0.76	0.00- 20.00	100.00(M)	BA
7.093	7.092	0.001	8766684	0.80000	0.76	0.00- 20.00	117.62	BA
7.340	7.340	0.000	4268001	0.80000	0.77	0.00- 20.00	57.26	BA
7.531	7.531	0.000	2539493	0.80000	0.75	0.00- 20.00	34.07	BA
7.988	7.988	0.000	2365936	0.80000	0.76	0.00- 20.00	31.74	BA
Average of Peak Amounts =					0.76000			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.661	8.660	0.001	11983437	0.10000	0.093			

QC Flag Legend

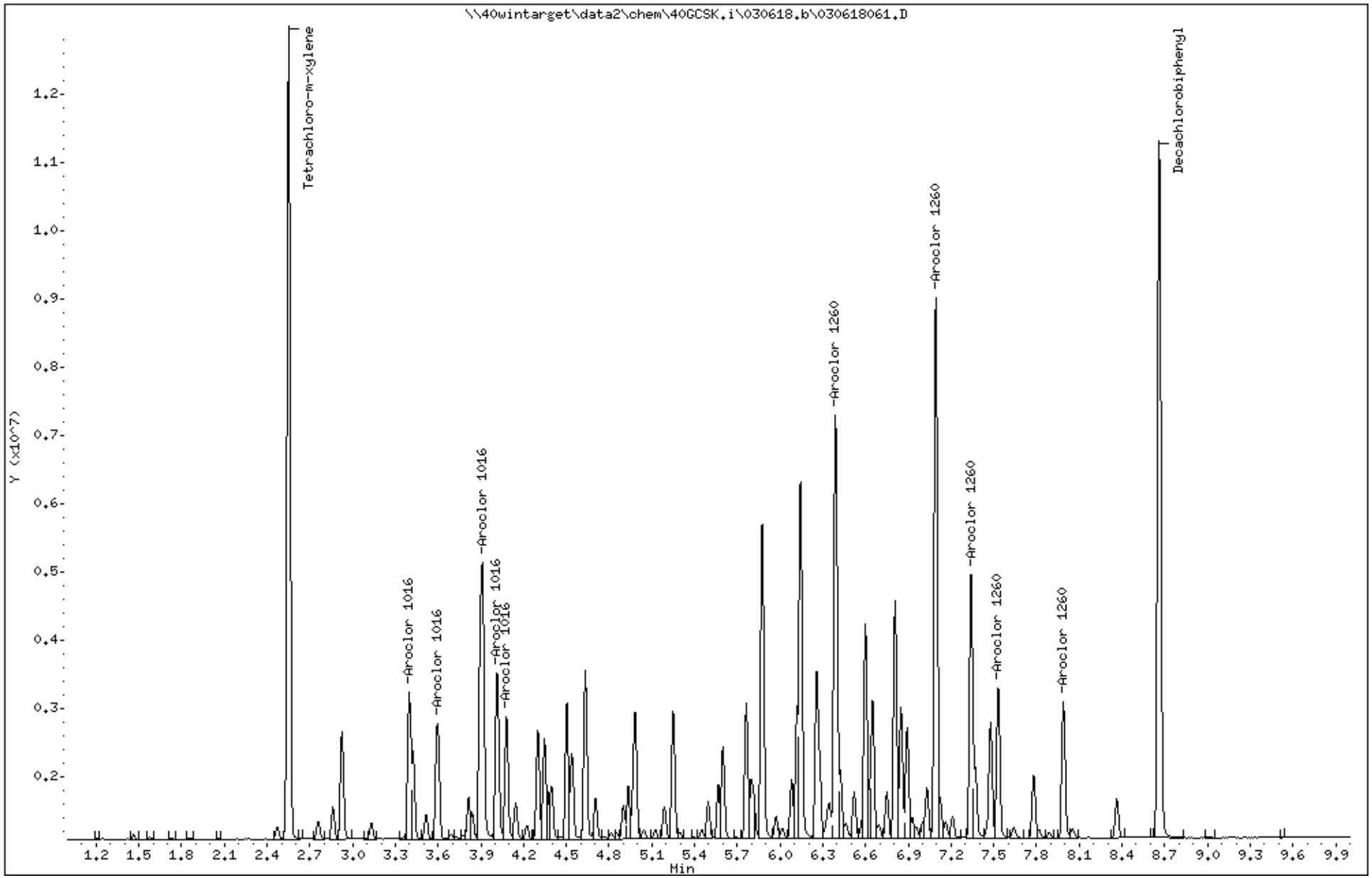
M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618061.D
Date : 06-MAR-2018 19:07
Client ID: 1660-CAL4A
Sample Info: 1660-CAL4A, 185560:1

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



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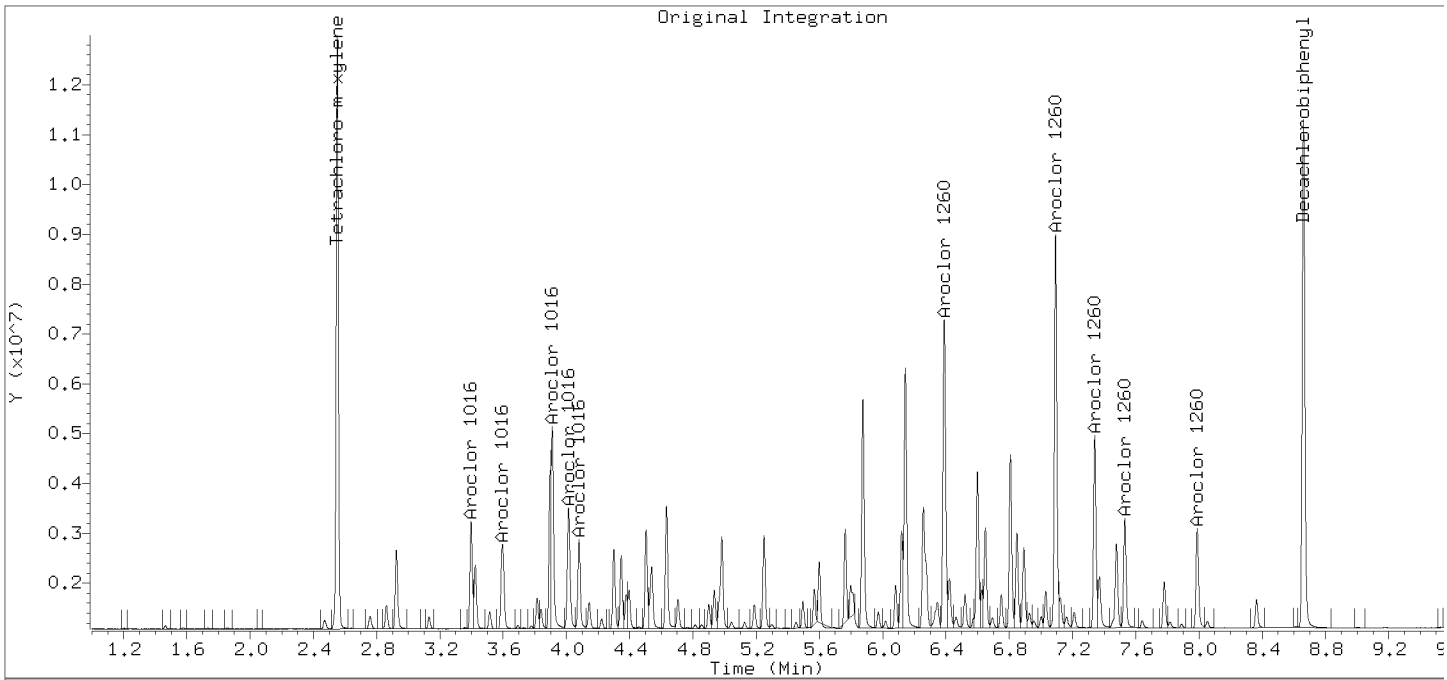
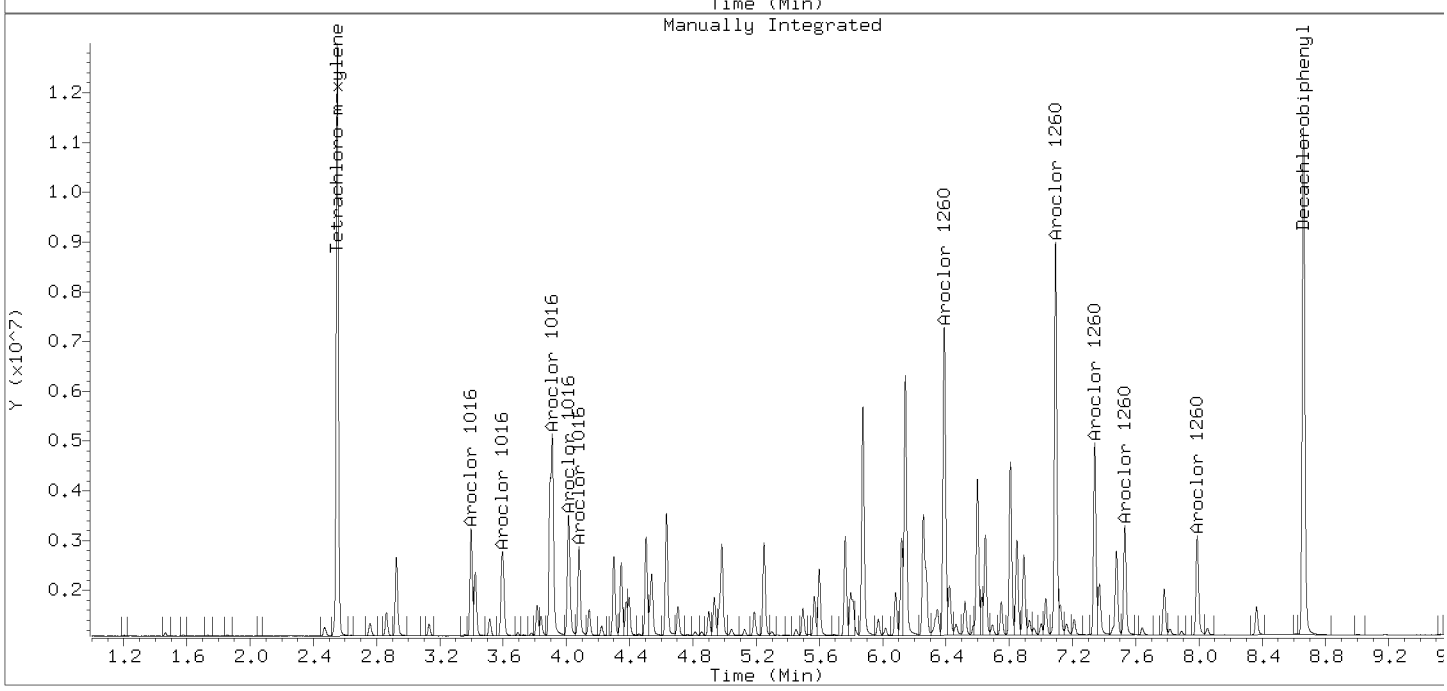
Injection Date: 06-MAR-2018 19:07 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL4A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	2290307	2301202	BA
Aroclor 1016	2290307	2301202	BA
Aroclor 1016	2290307	2301202	BA
Aroclor 1016	2290307	2301202	BA
Aroclor 1016	2290307	2301202	BA
Aroclor 1260	7415971	7453138	BA
Aroclor 1260	7415971	7453138	BA
Aroclor 1260	7415971	7453138	BA
Aroclor 1260	7415971	7453138	BA
Aroclor 1260	7415971	7453138	BA
Tetrachloro-m-xylene	11647995	11647995	
Decachlorobiphenyl	11983437	11983437	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618063.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 06-MAR-2018 19:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17499,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 34 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.203	19827	21746	1.097	0.01		
1.463	96556	101119	1.047	0.05		
1.576	42615	39235	0.921	0.02		
1.729	21269	22957	1.079	0.01		
1.854	28618	27525	0.962	0.01		
2.061	20835	14718	0.706	0.01		
2.471	253366	207174	0.818	0.13		
2.551	17590623	17941474	1.020	9.42	$ 2 Tetrachloro-m-xylene	
2.638	27447	15046	0.548	0.01		
2.757	372664	304025	0.816	0.19		
2.861	654549	621362	0.949	0.35		
2.924	2104687	1955069	0.929	1.12		
3.131	311051	296345	0.953	0.16		
3.270	11128	8401	0.755	0.00		
3.360	44617	33049	0.741	0.02		
3.397	2833165	2712282	0.957	1.51	5 Aroclor 1016	BA
3.424	1753054	1564414	0.892	0.93		
3.516	478864	432968	0.904	0.25		
3.595	2917635	2081852	0.714	1.56	5 Aroclor 1016	BA
3.692	103237	97010	0.940	0.05		
3.728	47301	30521	0.645	0.02		
3.779	80847	76172	0.942	0.04		
3.814	770131	760372	0.987	0.41		
3.840	529418	484766	0.916	0.28		
3.910	8852360	5065933	0.572	4.74	5 Aroclor 1016	BA
4.013	3709517	3003439	0.810	1.98	5 Aroclor 1016	BA
4.079	2519627	2266256	0.899	1.34	5 Aroclor 1016	BA
4.144	752872	666548	0.885	0.40		
4.223	288579	244647	0.848	0.15		
4.300	2117130	1967395	0.929	1.13		
4.346	1931210	1795463	0.930	1.03		
4.378	822943	848089	1.031	0.44		
4.395	1073512	960831	0.895	0.57		
4.458	64719	45292	0.700	0.03		
4.504	2636611	2454224	0.931	1.41		
4.538	2091817	1511802	0.723	1.12		
4.633	3498340	3108154	0.888	1.87		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.706	814632	735522	0.903	0.43	
4.767	53125	40275	0.758	0.02	
4.812	125235	100792	0.805	0.06	
4.855	114012	103271	0.906	0.06	
4.900	647283	617135	0.953	0.34	
4.934	1033436	962266	0.931	0.55	
4.982	3129874	2241145	0.716	1.67	
5.044	228941	165957	0.725	0.12	
5.126	184788	159665	0.864	0.09	
5.188	668524	615580	0.921	0.35	
5.248	2596275	2320209	0.894	1.39	
5.299	120391	99910	0.830	0.06	
5.397	28149	23854	0.847	0.01	
5.451	184669	155927	0.844	0.09	
5.495	738360	691748	0.937	0.39	
5.535	35603	32009	0.899	0.01	
5.567	1030849	992673	0.963	0.55	
5.598	1878196	1635679	0.871	1.00	
5.693	35046	27951	0.798	0.01	
5.763	2658290	2470317	0.929	1.42	
5.798	1816099	1048746	0.577	0.97	
5.874	6622088	5699645	0.861	3.54	
5.972	465361	418269	0.899	0.24	
6.018	217442	181417	0.834	0.11	
6.081	1147899	1086964	0.947	0.61	
6.119	2463743	2456588	0.997	1.31	
6.143	7606146	6447330	0.848	4.07	
6.257	4847791	3130733	0.646	2.59	
6.345	1124692	645899	0.574	0.60	
6.388	9314568	7790199	0.836	4.98	8 Aroclor 1260
6.422	1441653	1231727	0.854	0.77	
6.463	376942	270605	0.718	0.20	
6.520	959840	844174	0.879	0.51	
6.575	194818	251112	1.289	0.10	
6.598	4436879	3957646	0.892	2.37	
6.625	909578	958510	1.054	0.48	
6.649	2846032	2434791	0.856	1.52	
6.692	325991	257104	0.789	0.17	
6.749	922889	875287	0.948	0.49	
6.806	4826736	4368344	0.905	2.58	
6.848	2708581	2389872	0.882	1.45	
6.891	2315741	2051766	0.886	1.24	
6.928	428349	356699	0.833	0.22	
6.956	221518	188587	0.851	0.11	
7.002	298801	275453	0.922	0.16	
7.030	1013481	913617	0.901	0.54	
7.092	10961506	9763170	0.891	5.87	8 Aroclor 1260
7.122	799651	738569	0.924	0.42	
7.162	357621	283886	0.794	0.19	
7.211	483379	400068	0.828	0.25	
7.310	17558	18332	1.044	0.00	
7.340	5359147	4719435	0.881	2.87	8 Aroclor 1260
7.370	1568158	1262384	0.805	0.83	
7.477	2584499	2051723	0.794	1.38	
7.531	3180579	2725208	0.857	1.70	8 Aroclor 1260
7.642	237808	190858	0.803	0.12	
7.780	1313610	1170794	0.891	0.70	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.817	222424	162023	0.728	0.11	
7.888	132022	112825	0.855	0.07	
7.989	2956179	2472936	0.837	1.58	8 Aroclor 1260
8.053	226783	164989	0.728	0.12	
8.158	13728	11765	0.857	0.00	
8.363	826149	707134	0.856	0.44	
8.468	12248	11232	0.917	0.00	
8.660	17771449	15556001	0.875	10.01	$ 12 Decachlorobiphenyl
9.171	30934	20395	0.659	0.01	
9.529	22951	13913	0.606	0.01	
	186710463	161068284		100.000	

Total unknown % area = 52

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618063.D
Lab Smp Id: 1660-CAL5A Client Smp ID: 1660-CAL5A
Inj Date : 06-MAR-2018 19:23
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-cal5a, 185561:1
Misc Info : 17499,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 34 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.551	2.550	0.001	17590623	0.15000	0.15			
5 Aroclor 1016					CAS #: 12674-11-2			
3.397	3.397	0.000	2833165	1.00000	0.93	0.00- 20.00	100.00(M)	BA
3.594	3.595	-0.001	2917635	1.00000	0.94	0.00- 20.00	102.98	BA
3.910	3.910	0.000	8852360	1.00000	0.95	0.00- 20.00	312.45	BA
4.013	4.013	0.000	3709517	1.00000	0.94	0.00- 20.00	130.93	BA
4.079	4.079	0.000	2519627	1.00000	0.95	0.00- 20.00	88.93	BA
Average of Peak Amounts =					0.94200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.387	6.388	-0.001	9314568	1.00000	0.95	0.00- 20.00	100.00(M)	BA
7.092	7.092	0.000	10961506	1.00000	0.95	0.00- 20.00	117.68	BA
7.340	7.340	0.000	5359146	1.00000	0.97	0.00- 20.00	57.54	BA
7.531	7.531	0.000	3180579	1.00000	0.94	0.00- 20.00	34.15	BA
7.988	7.988	0.000	2956178	1.00000	0.95	0.00- 20.00	31.74	BA
Average of Peak Amounts =					0.95200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.660	8.660	0.000	17771448	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\030618.b\030618063.D

Date : 06-MAR-2018 19:23

Client ID: 1660-CAL5A

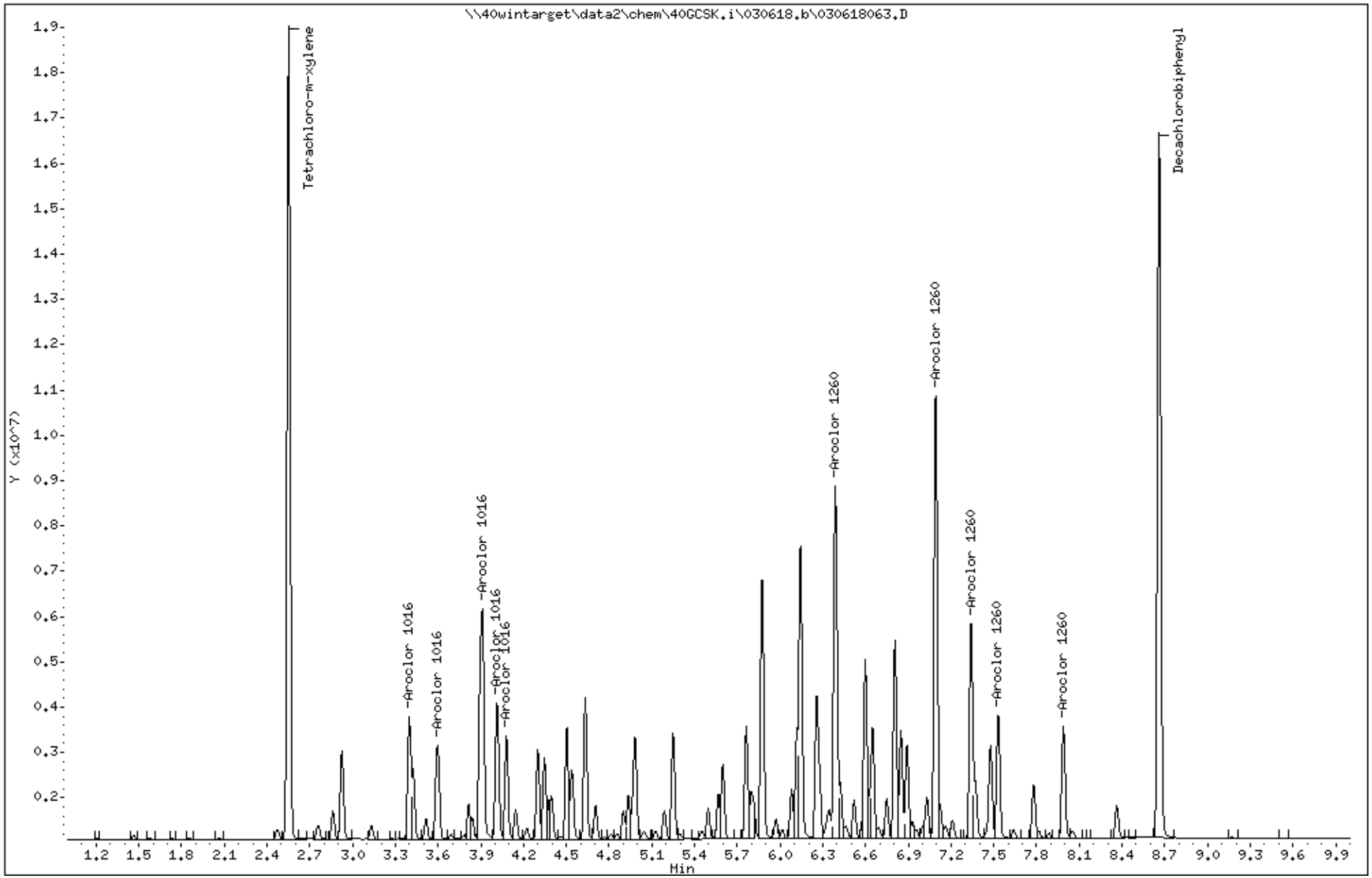
Instrument: 40GCSK.i

Sample Info: 1660-CAL5A, 185561:1

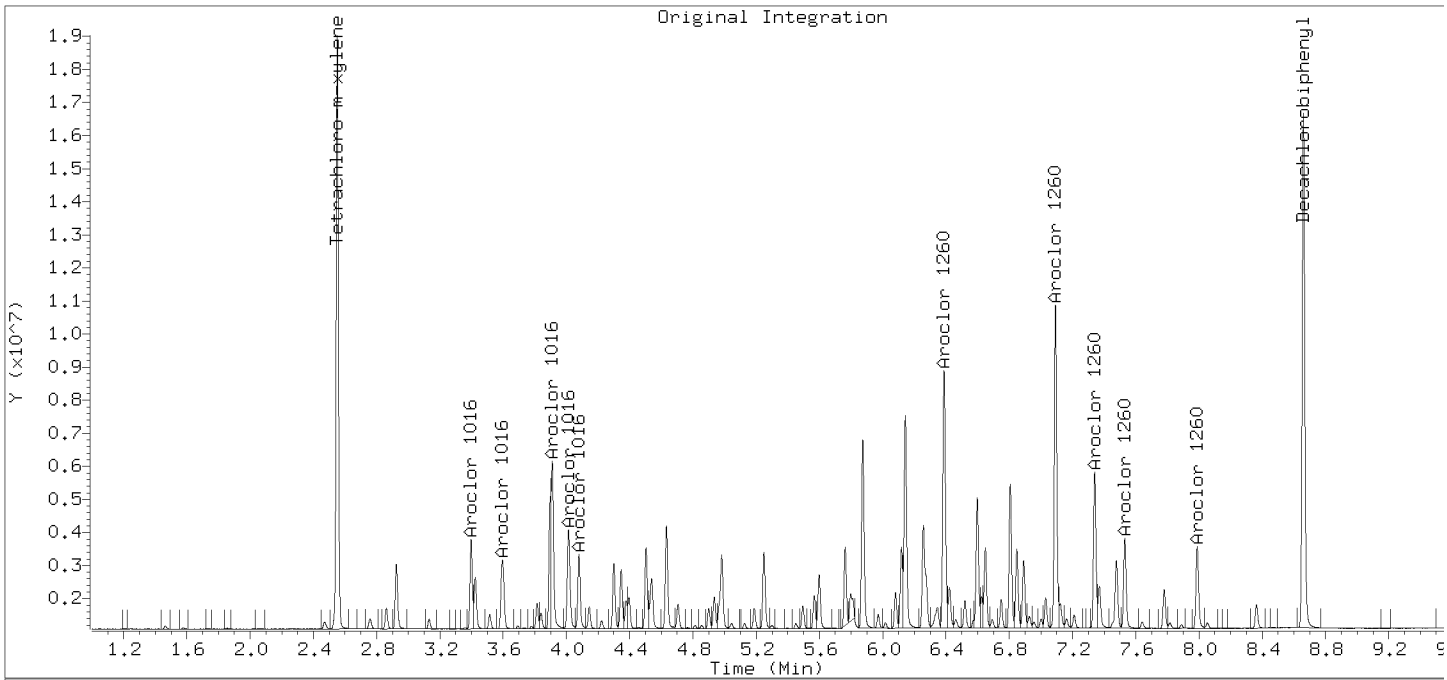
Operator: BLM

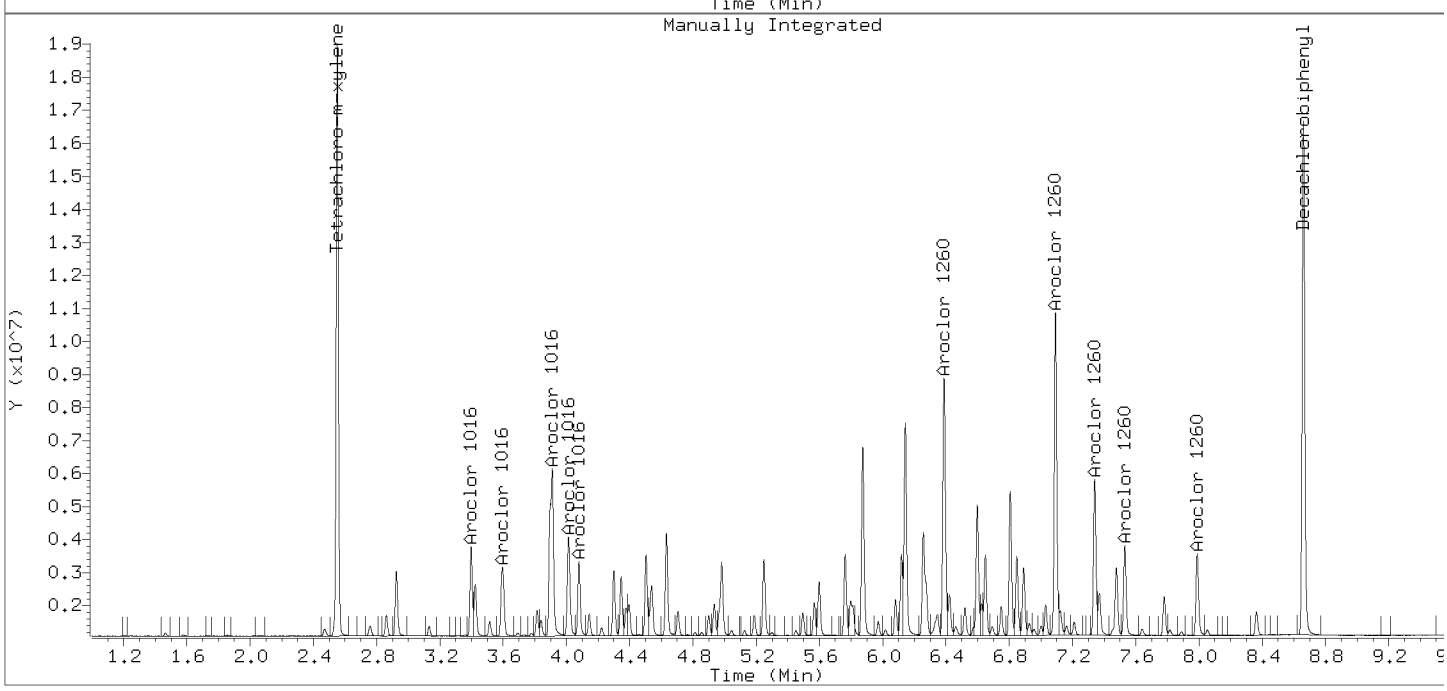
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618063.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 19:23 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-CAL5A





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	2821303	2833165	BA
Aroclor 1016	2821303	2833165	BA
Aroclor 1016	2821303	2833165	BA
Aroclor 1016	2821303	2833165	BA
Aroclor 1016	2821303	2833165	BA
Aroclor 1260	9263699	9314568	BA
Aroclor 1260	9263699	9314568	BA
Aroclor 1260	9263699	9314568	BA
Aroclor 1260	9263699	9314568	BA
Aroclor 1260	9263699	9314568	BA
Tetrachloro-m-xylene	17590623	17590623	
Decachlorobiphenyl	17771448	17771448	

PCB Low Level Calibration % Difference Check

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

Aroclor	True Value	Abundance Concentration	% Difference	Acceptance Criteria %	Pass/Fail
AR1221-CAL1	.1	0.112126	12.126	20	Pass
AR1242-CAL1	.1	0.109171	9.171	20	Pass
AR1248-CAL1	.1	0.106336	6.336	20	Pass
AR1254-CAL1	.1	0.107422	7.422	20	Pass
AR1016-CAL1	.1	0.107656	7.656	20	Pass
AR1260-CAL1	.1	0.106711	6.711	20	Pass

SAMPLE NO.

10758175ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 19:55

Instrument ID: 40GCSK GC Column: Col 2
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618067.D
Init. Calib. Time(s): 11:34 19:23

SDG No.: 40148598

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.855	1.819	1.887	994458.850	1028912.00	3.4645
Aroclor 1221	2	Averaged	2.473	2.438	2.506	534918.350	534684.000	-0.0438
Aroclor 1221	3	Averaged	2.759	2.726	2.794	1407936.95	1424282.00	1.1609
Aroclor 1221	4	Averaged	2.862	2.828	2.896	1109285.60	1107376.00	-0.1721
Aroclor 1221	5	Averaged	2.925	2.892	2.96	3361301.80	3490914.00	3.8560
Decachlorobiphenyl (S)		Averaged	8.659	8.626	8.694	128906408.	128279220.	-0.4865
Tetrachloro-m-xylene		Averaged	2.551	2.516	2.584	118423432.	114868540.	-3.0018

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

SAMPLE NO.

10758178ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

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

Instrument ID: 40GCSK GC Column: Col 2
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618069.D
Init. Calib. Time(s): 11:34 19:23

SDG No.: 40148598

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1242	1	Averaged	3.397	3.364	3.432	2535757.25	2523920.00	-0.4668
Aroclor 1242	2	Averaged	3.595	3.562	3.63	2567918.20	2578394.00	0.4079
Aroclor 1242	3	Averaged	3.91	3.876	3.944	7622055.10	7476474.00	-1.9100
Aroclor 1242	4	Averaged	4.013	3.979	4.047	3224394.90	3221522.00	-0.0891
Aroclor 1242	5	Averaged	4.079	4.046	4.114	2170022.35	2161114.00	-0.4105
Decachlorobiphenyl (S)		Averaged	8.66	8.626	8.694	128906408.	121118560.	-6.0415
Tetrachloro-m-xylene		Averaged	2.551	2.516	2.584	118423432.	111520360.	-5.8291

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

04/27/2018 9:33

SAMPLE NO.

10758173ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 20:27

Instrument ID: 40GCSK GC Column: Col 2
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618071.D
Init. Calib. Time(s): 11:34 19:23

SDG No.: 40148598

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1248	1	Averaged	4.346	4.313	4.381	2483101.10	2471852.00	-0.4530
Aroclor 1248	2	Averaged	4.632	4.598	4.666	4455813.90	4407412.00	-1.0863
Aroclor 1248	3	Averaged	4.899	4.866	4.934	2151675.70	2224258.00	3.3733
Aroclor 1248	4	Averaged	4.966	4.933	5.001	5639947.95	5657272.00	0.3072
Aroclor 1248	5	Averaged	5.125	5.093	5.161	3941717.85	4067778.00	3.1981
Decachlorobiphenyl (S)		Averaged	8.66	8.626	8.694	128906408.	120922260.	-6.1938
Tetrachloro-m-xylene		Averaged	2.551	2.516	2.584	118423432.	112456780.	-5.0384

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

SAMPLE NO.

10758177ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 20:44

Instrument ID: 40GCSK GC Column: Col 2
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618073.D
Init. Calib. Time(s): 11:34 19:23

SDG No.: 40148598

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1254	1	Averaged	5.249	5.215	5.283	5685404.75	5161976.00	-9.2065
Aroclor 1254	2	Averaged	5.495	5.462	5.53	4703045.05	4301472.00	-8.5386
Aroclor 1254	3	Averaged	5.598	5.564	5.632	8618632.15	7592956.00	-11.9007
Aroclor 1254	4	Averaged	6.116	6.083	6.151	5370488.20	4864896.00	-9.4143
Aroclor 1254	5	Averaged	6.388	6.354	6.422	7351311.20	6941146.00	-5.5795
Decachlorobiphenyl (S)		Averaged	8.659	8.626	8.694	128906408.	122186780.	-5.2128
Tetrachloro-m-xylene		Averaged	2.55	2.516	2.584	118423432.	111665040.	-5.7070

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

SAMPLE NO.

10758166ICV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/06/2018 Time: 21:00

Instrument ID: 40GCSK GC Column: Col 2
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030618.B\030618075.D
Init. Calib. Time(s): 11:34 19:23

SDG No.: 40148598

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1016	1	Averaged	3.396	3.363	3.431	3044196.10	3091966.00	1.5692
Aroclor 1016	2	Averaged	3.595	3.561	3.629	3105369.95	3146306.00	1.3182
Aroclor 1016	3	Averaged	3.91	3.876	3.944	9315861.95	9332072.00	0.1740
Aroclor 1016	4	Averaged	4.013	3.979	4.047	3947962.25	3961404.00	0.3405
Aroclor 1016	5	Averaged	4.079	4.045	4.113	2647543.25	2657106.00	0.3612
Aroclor 1260	1	Averaged	6.388	6.354	6.422	9796686.30	9179102.00	-6.3040
Aroclor 1260	2	Averaged	7.092	7.058	7.126	11489000.4	11680202.0	1.6642
Aroclor 1260	3	Averaged	7.34	7.306	7.374	5540976.85	5535608.00	-0.0969
Aroclor 1260	4	Averaged	7.53	7.497	7.565	3371783.05	3365166.00	-0.1962
Aroclor 1260	5	Averaged	7.989	7.954	8.022	3099916.60	3290370.00	6.1438
Decachlorobiphenyl (S)		Averaged	8.659	8.626	8.694	128906408.	122313980.	-5.1141
Tetrachloro-m-xylene		Averaged	2.551	2.516	2.584	118423432.	112212640.	-5.2446

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

SAMPLE NO.

10764627CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/07/2018 Time: 13:58

Instrument ID: 40GCSK GC Column: Col 2
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030718.B\030718007.D
Init. Calib. Time(s): 11:34 19:23

SDG No.: 40148598

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1221	1	Averaged	1.854	1.819	1.887	994458.850	944298.000	-5.0440
Aroclor 1221	2	Averaged	2.472	2.438	2.506	534918.350	506086.000	-5.3900
Aroclor 1221	3	Averaged	2.76	2.726	2.794	1407936.95	1343000.00	-4.6122
Aroclor 1221	4	Averaged	2.862	2.828	2.896	1109285.60	1048510.00	-5.4788
Aroclor 1221	5	Averaged	2.925	2.892	2.96	3361301.80	3267952.00	-2.7772
Decachlorobiphenyl (S)		Averaged	8.659	8.626	8.694	128906408.	122121880.	-5.2631
Tetrachloro-m-xylene		Averaged	2.551	2.516	2.584	118423432.	114367240.	-3.4252

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

SAMPLE NO.

10764628CCV

PCB - FORM VII SVOA-1
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Green Bay
Calibration Date: 03/07/2018 Time: 17:11

Instrument ID: 40GCSK GC Column: Col 2
Init. Calib. Date(s): 03/06/2018 03/06/2018

Lab File ID: 030718.B\030718031.D
Init. Calib. Time(s): 11:34 19:23

SDG No.: 40148598

COMPOUND	PEAK	CURVE	RT	RT WINDOW		$\overline{RRF}$ or Amount	RRF or Amount	%D
				FROM	TO			
Aroclor 1232	1	Averaged	2.924	2.89	2.958	2730104.00	2733048.00	0.1078
Aroclor 1232	2	Averaged	3.594	3.562	3.63	1438576.00	1428412.00	-0.7065
Aroclor 1232	3	Averaged	3.91	3.876	3.944	4258826.00	4208026.00	-1.1928
Aroclor 1232	4	Averaged	4.013	3.979	4.047	1806102.00	1793104.00	-0.7197
Aroclor 1232	5	Averaged	4.078	4.046	4.114	1209090.00	1184526.00	-2.0316
Decachlorobiphenyl (S)		Averaged	8.659	8.626	8.694	128906408.	124486740.	-3.4286
Tetrachloro-m-xylene		Averaged	2.55	2.516	2.584	118423432.	117398500.	-0.8655

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\030618.b\030618067.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 19:55
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17499,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 36 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS	REVIEW CODE
1.465	38214	36202	0.947	0.21			
1.855	514457	494762	0.962	2.83		1 Aroclor 1221	BA
2.259	162116	142554	0.879	0.89			
2.473	267342	200294	0.749	1.47		1 Aroclor 1221	BA
2.551	5743427	5766878	1.004	31.64	$	2 Tetrachloro-m-xylene	BA
2.760	712141	572517	0.804	3.92		1 Aroclor 1221	BA
2.863	553688	529023	0.955	3.05		1 Aroclor 1221	BA
2.925	1745458	1519364	0.870	9.61		1 Aroclor 1221	BA
3.131	30989	28281	0.913	0.17			
3.362	123342	88158	0.715	0.67			
3.405	435339	209433	0.481	2.39			
3.514	46149	34066	0.738	0.25			
3.594	147621	106570	0.722	0.81			
3.692	35248	32985	0.936	0.19			
3.815	35328	37051	1.049	0.19			
3.839	30374	31656	1.042	0.16			
3.911	342116	195255	0.571	1.88			
4.013	169891	134786	0.793	0.93			
4.080	94696	86592	0.914	0.52			
4.143	15852	14783	0.933	0.08			
4.299	34604	32229	0.931	0.19			
4.345	28301	29171	1.031	0.15			
4.504	42131	39818	0.945	0.23			
4.535	44064	30821	0.699	0.24			
4.634	57656	49485	0.858	0.31			
4.704	17321	13339	0.770	0.09			
4.903	22307	19281	0.864	0.12			
4.936	37206	32908	0.884	0.20			
4.968	53233	34867	0.655	0.29			
5.125	35499	29396	0.828	0.19			
5.600	17080	12885	0.754	0.09			
7.815	16895	18211	1.078	0.09			
7.890	13748	11171	0.813	0.07			
8.364	48247	41431	0.859	0.26			
8.609	10446	7496	0.718	0.05			
8.660	6413962	5225163	0.815	35.51	$	12 Decachlorobiphenyl	
9.529	12375	9888	0.799	0.06			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
	18148862	15898770		100.000	

Total unknown % area = 12

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618067.D
Lab Smp Id: 1221-ICV Client Smp ID: 1221-ICV
Inj Date : 06-MAR-2018 19:55
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-icv, 188142:1
Misc Info : 17499,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 36 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.551	2.550	0.001	5743427	0.05000	0.048		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.855	1.853	0.002	514456	0.50000	0.52	0.00- 20.00	100.00(M)	BA
2.473	2.472	0.001	267342	0.50000	0.50	0.00- 20.00	51.97	BA
2.759	2.760	-0.001	712141	0.50000	0.50	0.00- 20.00	138.43	BA
2.862	2.862	0.000	553688	0.50000	0.50	0.00- 20.00	107.63	BA
2.925	2.926	-0.001	1745457	0.50000	0.52	0.00- 20.00	339.28	BA
Average of Peak Amounts =					0.50800			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.659	8.660	-0.001	6413961	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.

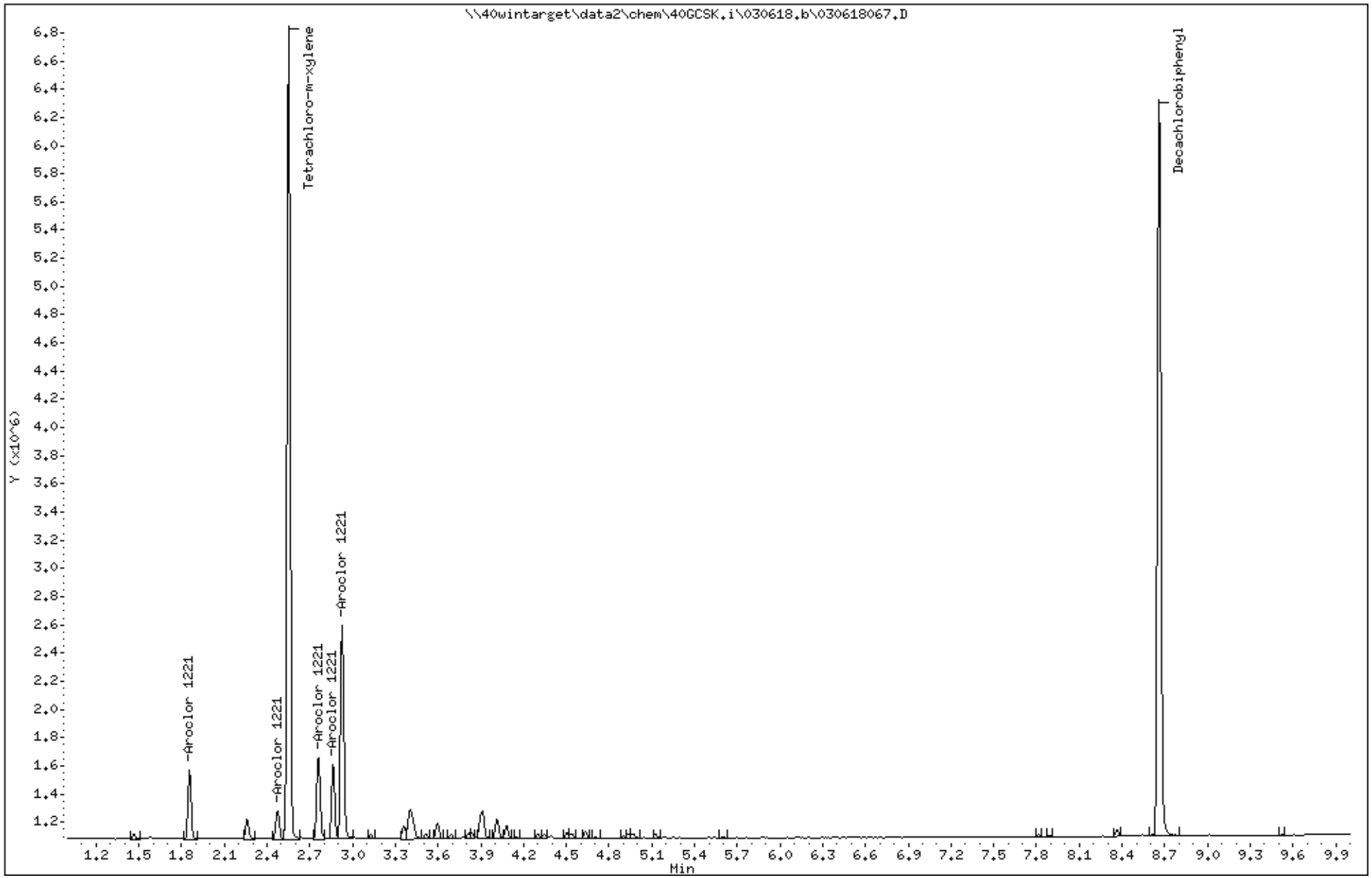
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618067.D
Date : 06-MAR-2018 19:55
Client ID: 1221-ICV
Sample Info: 1221-ICV, 188142:1

Instrument: 40GCSK.i

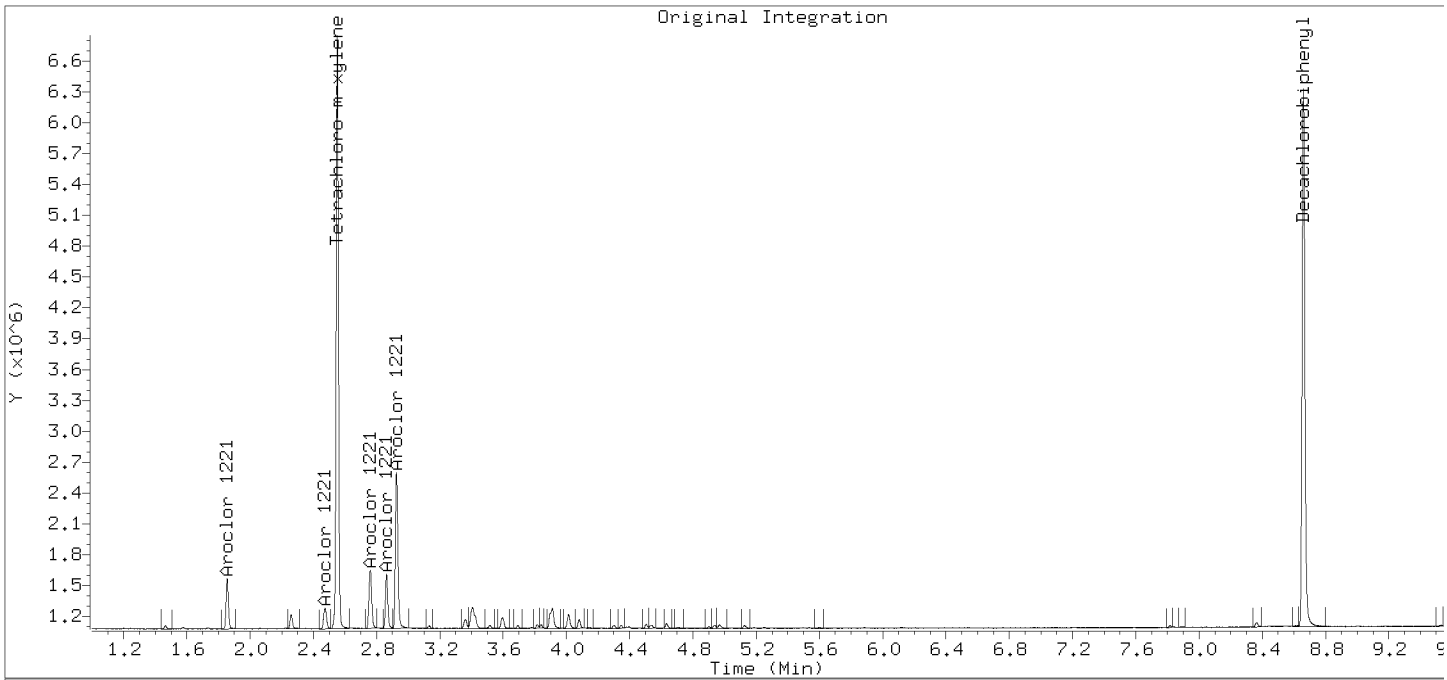
Operator: BLM

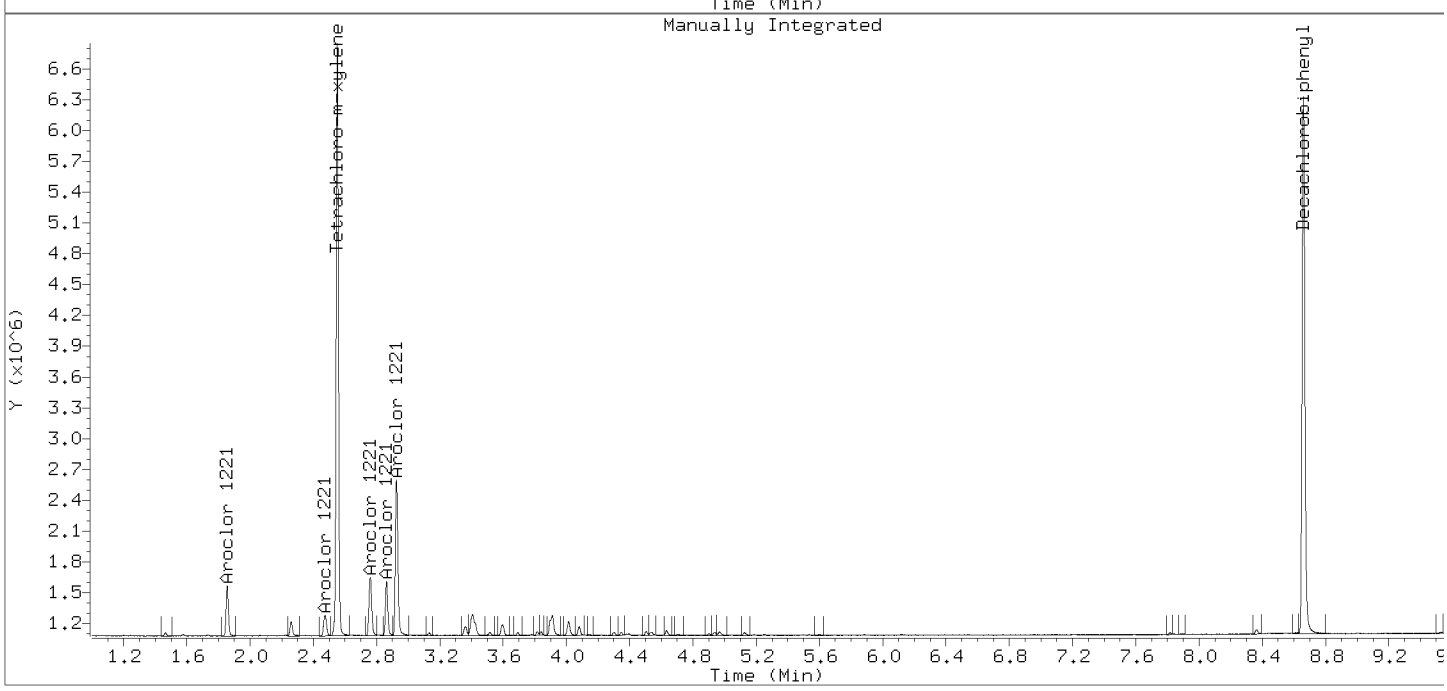
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618067.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 06-MAR-2018 19:55 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	506914	514456	BA
Aroclor 1221	506914	514456	BA
Aroclor 1221	506914	514456	BA
Aroclor 1221	506914	514456	BA
Aroclor 1221	506914	514456	BA
Tetrachloro-m-xylene	5725253	5743427	BA
Decachlorobiphenyl	6413961	6413961	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618069.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17499,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.246	10506	5895	0.561	0.02		
1.465	32146	31164	0.969	0.08		
1.579	14971	13214	0.883	0.03		
1.734	9793	11057	1.129	0.02		
2.472	128235	102234	0.797	0.32		
2.552	5576019	5536811	0.993	14.23	$ 2 Tetrachloro-m-xylene	
2.758	181940	144682	0.795	0.46		
2.862	269954	257075	0.952	0.68		
2.925	983647	904438	0.919	2.51		
3.131	130083	125049	0.961	0.33		
3.355	25414	17116	0.673	0.06		
3.398	1261960	1194659	0.947	3.22	3 Aroclor 1242	BA
3.424	763212	694394	0.910	1.94		
3.515	202076	181696	0.899	0.51		
3.596	1289197	935778	0.726	3.29	3 Aroclor 1242	BA
3.694	39386	34132	0.867	0.10		
3.779	35248	34252	0.972	0.08		
3.815	316400	308169	0.974	0.80		
3.840	223383	200324	0.897	0.57		
3.911	3738237	2111490	0.565	9.54	3 Aroclor 1242	BA
4.013	1610762	1279592	0.794	4.11	3 Aroclor 1242	BA
4.080	1080557	960242	0.889	2.75	3 Aroclor 1242	BA
4.144	303317	255457	0.842	0.77		
4.223	119991	101737	0.848	0.30		
4.300	839171	785749	0.936	2.14		
4.347	803924	759188	0.944	2.05		
4.378	328909	338366	1.029	0.83		
4.396	419709	384174	0.915	1.07		
4.460	26596	21406	0.805	0.06		
4.504	1124474	1048517	0.932	2.87		
4.539	932526	669988	0.718	2.38		
4.632	1479476	1278500	0.864	3.77		
4.705	347758	313883	0.903	0.88		
4.767	26815	21394	0.798	0.06		
4.813	71870	56178	0.782	0.18		
4.856	78689	69501	0.883	0.20		
4.901	665265	626883	0.942	1.69		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.936	1203701	1102050	0.916	3.07	
4.966	1585466	1122735	0.708	4.04	
5.048	194621	129647	0.666	0.49	
5.126	1314845	1129401	0.859	3.35	
5.188	276565	198413	0.717	0.70	
5.249	294832	251333	0.852	0.75	
5.301	225213	187543	0.833	0.57	
5.395	54541	40885	0.750	0.13	
5.451	175621	155675	0.886	0.44	
5.496	318056	259682	0.816	0.81	
5.534	201862	165078	0.818	0.51	
5.598	530679	398760	0.751	1.35	
5.694	166678	131614	0.790	0.42	
5.764	18089	15008	0.830	0.04	
5.805	26143	22660	0.867	0.06	
5.831	40043	32936	0.823	0.10	
5.880	350807	252287	0.719	0.89	
5.979	36252	29231	0.806	0.09	
6.114	320690	228157	0.711	0.81	
6.317	13688	9412	0.688	0.03	
6.389	63481	55760	0.878	0.16	
6.426	14736	11529	0.782	0.03	
6.628	26834	19298	0.719	0.06	
7.092	20603	15467	0.751	0.05	
7.530	11212	8984	0.801	0.02	
7.817	31261	20776	0.665	0.07	
7.892	12832	12216	0.952	0.03	
8.364	52001	43477	0.836	0.13	
8.661	6055928	4877159	0.805	15.82	$ 12 Decachlorobiphenyl
9.007	17502	12184	0.696	0.04	
9.524	18037	10489	0.582	0.04	
	39164436	32764230		100.000	

Total unknown % area = 47

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618069.D
Lab Smp Id: 1242-ICV Client Smp ID: 1242-ICV
Inj Date : 06-MAR-2018 20:11
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1242-icv, 185562:1
Misc Info : 17499,AR1242
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.551	2.550	0.001	5576018	0.05000	0.047			
3 Aroclor 1242						CAS #: 53469-21-9		
3.397	3.398	-0.001	1261960	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.595	3.596	-0.001	1289197	0.50000	0.50	0.00- 20.00	102.16	BA
3.910	3.910	0.000	3738237	0.50000	0.49	0.00- 20.00	296.22	BA
4.013	4.013	0.000	1610761	0.50000	0.50	0.00- 20.00	127.64	BA
4.079	4.080	-0.001	1080557	0.50000	0.50	0.00- 20.00	85.63	BA
Average of Peak Amounts =					0.49800			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.660	8.660	0.000	6055928	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\030618.b\030618069.D

Date : 06-MAR-2018 20:11

Client ID: 1242-ICV

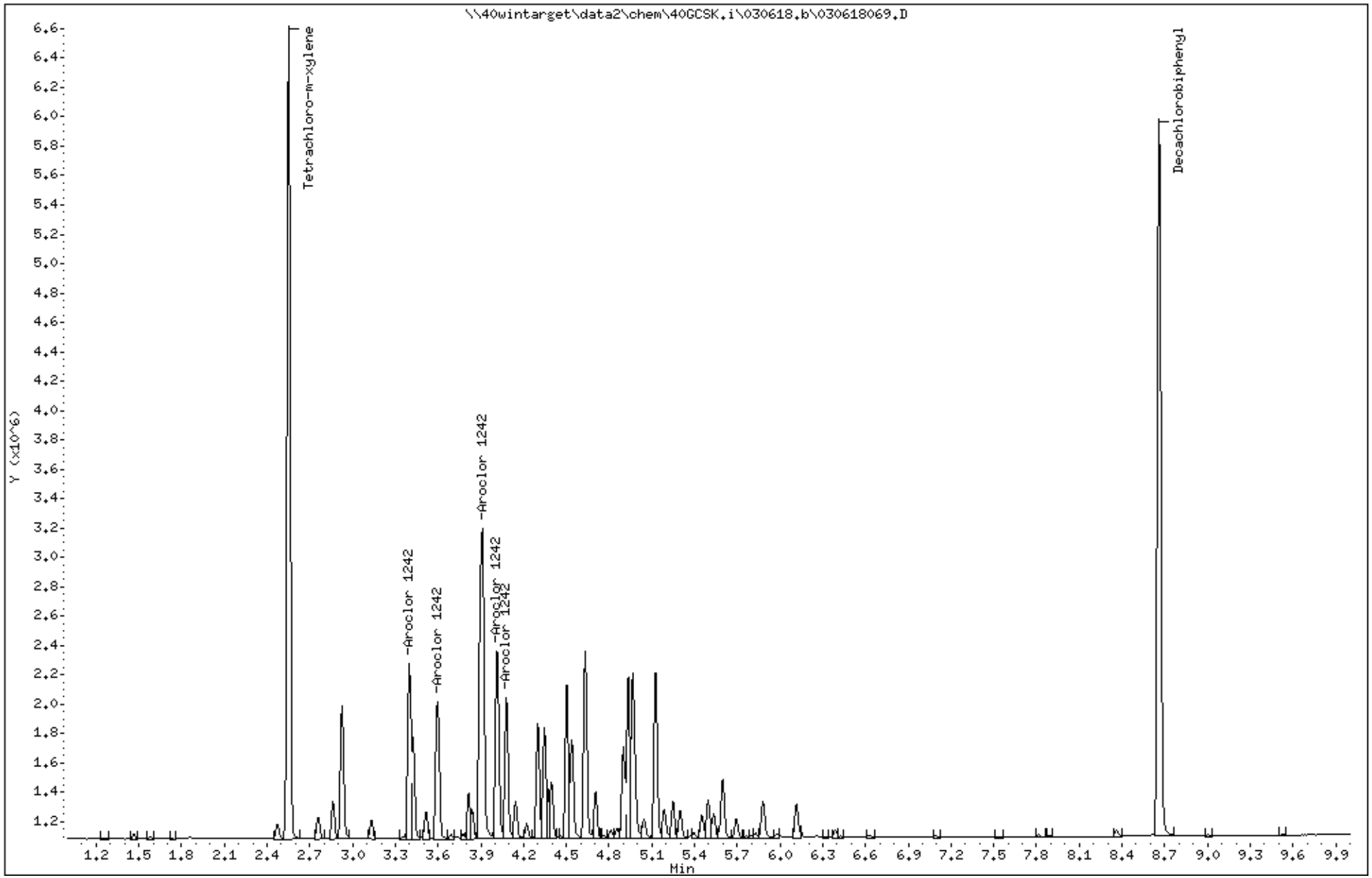
Instrument: 40GCSK.i

Sample Info: 1242-ICV, 185562:1

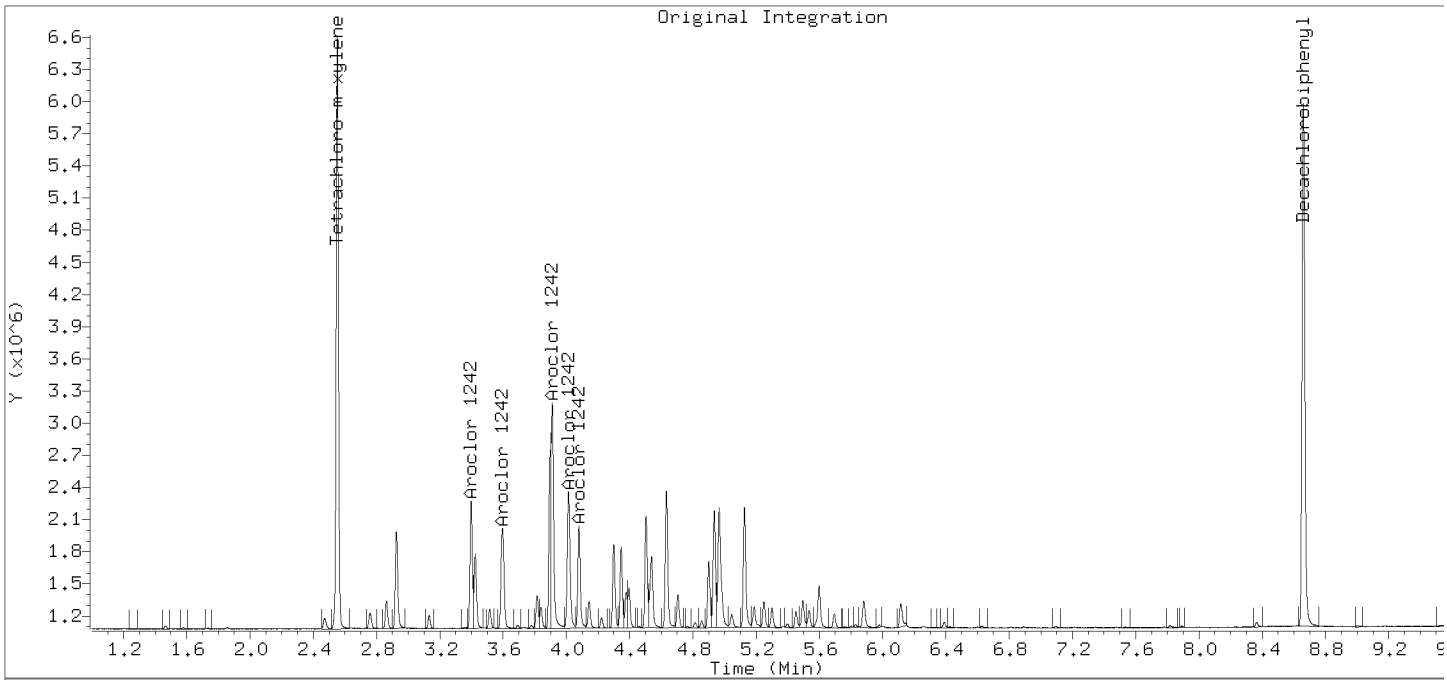
Operator: BLM

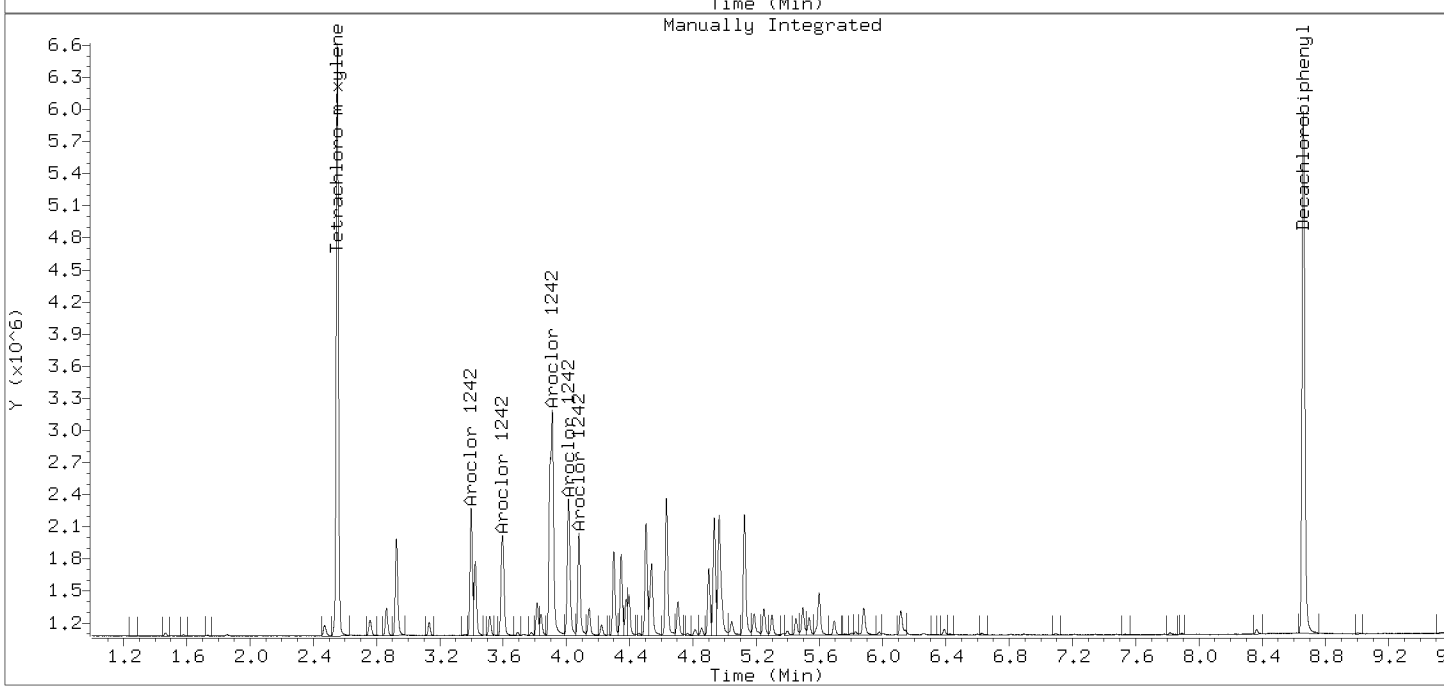
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618069.D (ManInt: AR1242.sub Orig: AR1242.sub)
Injection Date: 06-MAR-2018 20:11 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1242-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1242	1250763	1261960	BA
Aroclor 1242	1250763	1261960	BA
Aroclor 1242	1250763	1261960	BA
Aroclor 1242	1250763	1261960	BA
Aroclor 1242	1250763	1261960	BA
Tetrachloro-m-xylene	5576018	5576018	
Decachlorobiphenyl	6055928	6055928	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618071.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17499,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.465	34144	32415	0.949	0.07		
1.577	16739	13428	0.802	0.03		
1.734	18097	15192	0.839	0.03		
2.061	13008	11510	0.885	0.02		
2.470	14684	10503	0.715	0.03		
2.551	5622839	5631200	1.001	12.27	$ 2 Tetrachloro-m-xylene	
2.758	16578	13066	0.788	0.03		
2.860	85971	85979	1.000	0.18		
2.926	86661	84182	0.971	0.18		
3.131	46193	44482	0.963	0.10		
3.397	634098	632057	0.997	1.38		
3.424	256318	238821	0.932	0.55		
3.517	47360	43607	0.921	0.10		
3.597	518667	378291	0.729	1.13		
3.692	33287	33561	1.008	0.07		
3.725	11434	9606	0.840	0.02		
3.815	105754	101765	0.962	0.23		
3.839	46298	38891	0.840	0.10		
3.898	981191	1149695	1.172	2.14		
3.911	1348643	1190337	0.883	2.94		
4.015	857693	624806	0.728	1.87		
4.079	571333	509261	0.891	1.24		
4.144	362221	327827	0.905	0.79		
4.222	150388	130200	0.866	0.32		
4.300	1515815	1400797	0.924	3.30		
4.347	1235927	1179022	0.954	2.69	6 Aroclor 1248	BA
4.378	527179	541154	1.027	1.15		
4.395	599194	544282	0.908	1.30		
4.504	1851012	1741333	0.941	4.04		
4.539	980239	818497	0.835	2.13		
4.632	2203707	1933539	0.877	4.81	6 Aroclor 1248	BA
4.678	42342	44183	1.043	0.09		
4.705	517439	473525	0.915	1.12		
4.765	37327	22917	0.614	0.08		
4.813	66162	49746	0.752	0.14		
4.855	121072	106126	0.877	0.26		
4.900	1112129	1057955	0.951	2.42	6 Aroclor 1248	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.935	2148687	1969231	0.916	4.69	
4.966	2828637	1798980	0.636	6.17	6 Aroclor 1248
5.045	377661	266345	0.705	0.82	
5.126	2033889	1771400	0.871	4.43	6 Aroclor 1248
5.188	640496	553427	0.864	1.39	
5.216	78363	83184	1.062	0.17	
5.249	831558	734367	0.883	1.81	
5.299	627311	541642	0.863	1.36	
5.372	45233	42523	0.940	0.09	
5.397	137603	113374	0.824	0.30	
5.451	522646	442205	0.846	1.14	
5.496	893853	756881	0.847	1.95	
5.534	564391	495862	0.879	1.23	
5.598	1498788	1186013	0.791	3.27	
5.694	438530	374712	0.854	0.95	
5.762	45954	36341	0.791	0.10	
5.804	79626	65904	0.828	0.17	
5.828	113002	94487	0.836	0.24	
5.852	37040	45086	1.217	0.08	
5.880	1040340	816828	0.785	2.27	
5.977	144595	86451	0.598	0.31	
6.079	30994	28063	0.905	0.06	
6.115	1008765	747211	0.741	2.20	
6.257	73470	52149	0.710	0.16	
6.315	57882	30125	0.520	0.12	
6.388	242696	201340	0.830	0.52	
6.424	55265	42534	0.770	0.12	
6.462	41933	33484	0.799	0.09	
6.600	15398	15651	1.016	0.03	
6.626	93052	66980	0.720	0.20	
6.807	17639	17026	0.965	0.03	
6.850	10645	11562	1.086	0.02	
6.891	41926	34878	0.832	0.09	
6.934	11342	9799	0.864	0.02	
7.095	43506	36034	0.828	0.09	
7.203	11185	9997	0.894	0.02	
7.340	23736	21232	0.895	0.05	
7.531	15410	11610	0.753	0.03	
7.816	18863	17529	0.929	0.04	
7.889	13078	12300	0.940	0.02	
7.990	16669	9846	0.591	0.03	
8.364	57207	44261	0.774	0.12	
8.661	6046114	4899799	0.810	13.57	$ 12 Decachlorobiphenyl
9.003	17253	11623	0.674	0.03	
9.174	13555	10372	0.765	0.02	
9.530	17874	11275	0.631	0.03	
	45812805	39925681		100.000	

Total unknown % area = 54

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618071.D
Lab Smp Id: 1248-ICV Client Smp ID: 1248-ICV
Inj Date : 06-MAR-2018 20:27
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1248-icv, 185563:1
Misc Info : 17499,AR1248
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.551	2.550	0.001	5622839	0.05000	0.047			
6 Aroclor 1248					CAS #: 12672-29-6			
4.346	4.347	-0.001	1235926	0.50000	0.50	0.00- 20.00	100.00(M)	BA
4.632	4.632	0.000	2203706	0.50000	0.49	0.00- 20.00	178.30	BA
4.899	4.900	-0.001	1112129	0.50000	0.52	0.00- 20.00	89.98	BA
4.966	4.967	-0.001	2828636	0.50000	0.50	0.00- 20.00	228.87	BA
5.125	5.127	-0.002	2033889	0.50000	0.52	0.00- 20.00	164.56	BA
Average of Peak Amounts =					0.50600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.660	8.660	0.000	6046113	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.

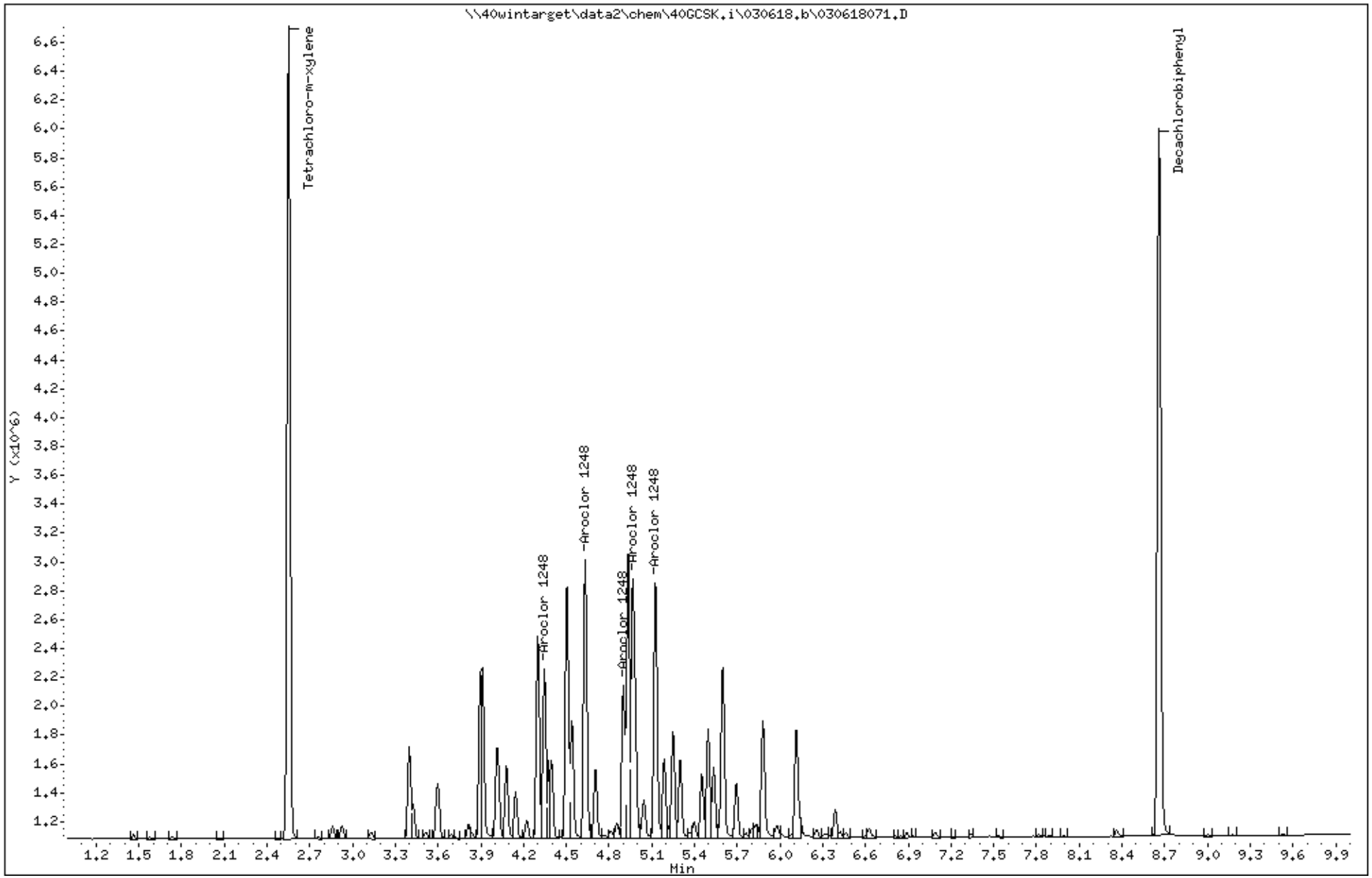
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618071.D
Date : 06-MAR-2018 20:27
Client ID: 1248-ICV
Sample Info: 1248-ICV, 185563:1

Instrument: 40GCSK.i

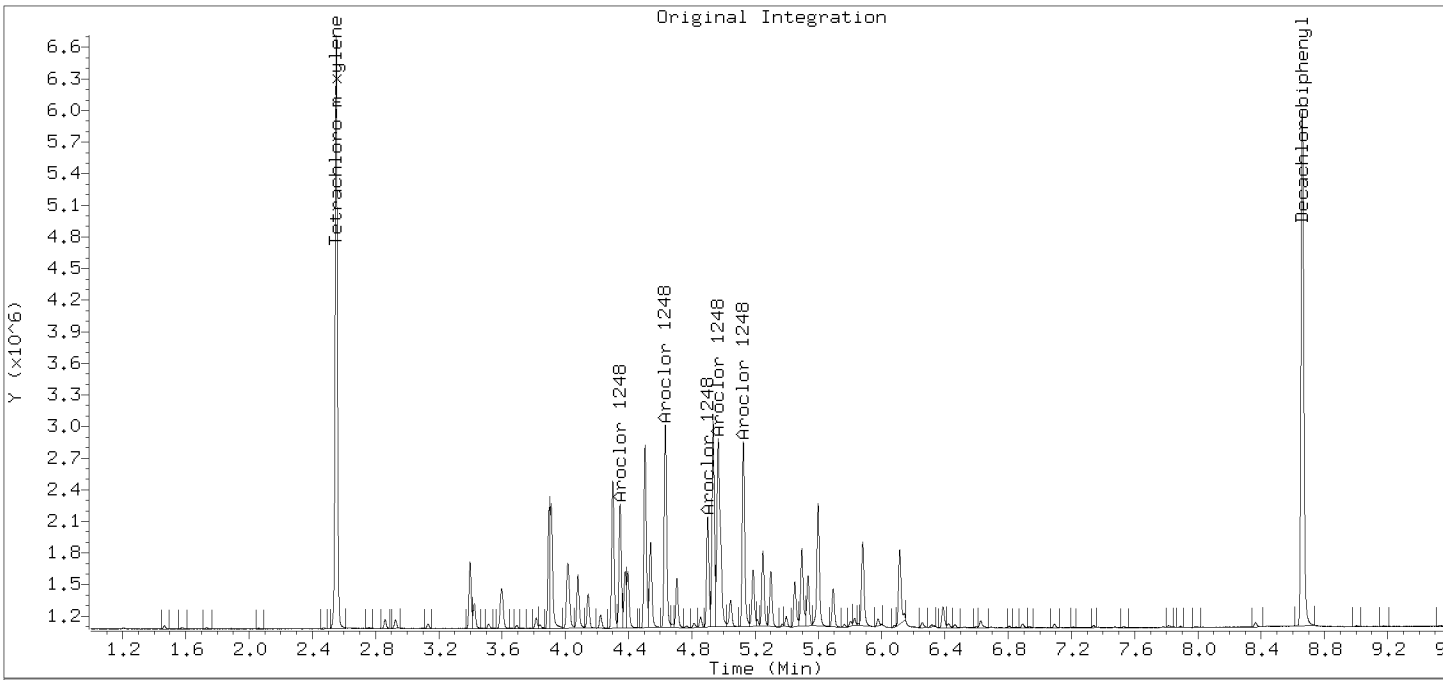
Operator: BLM

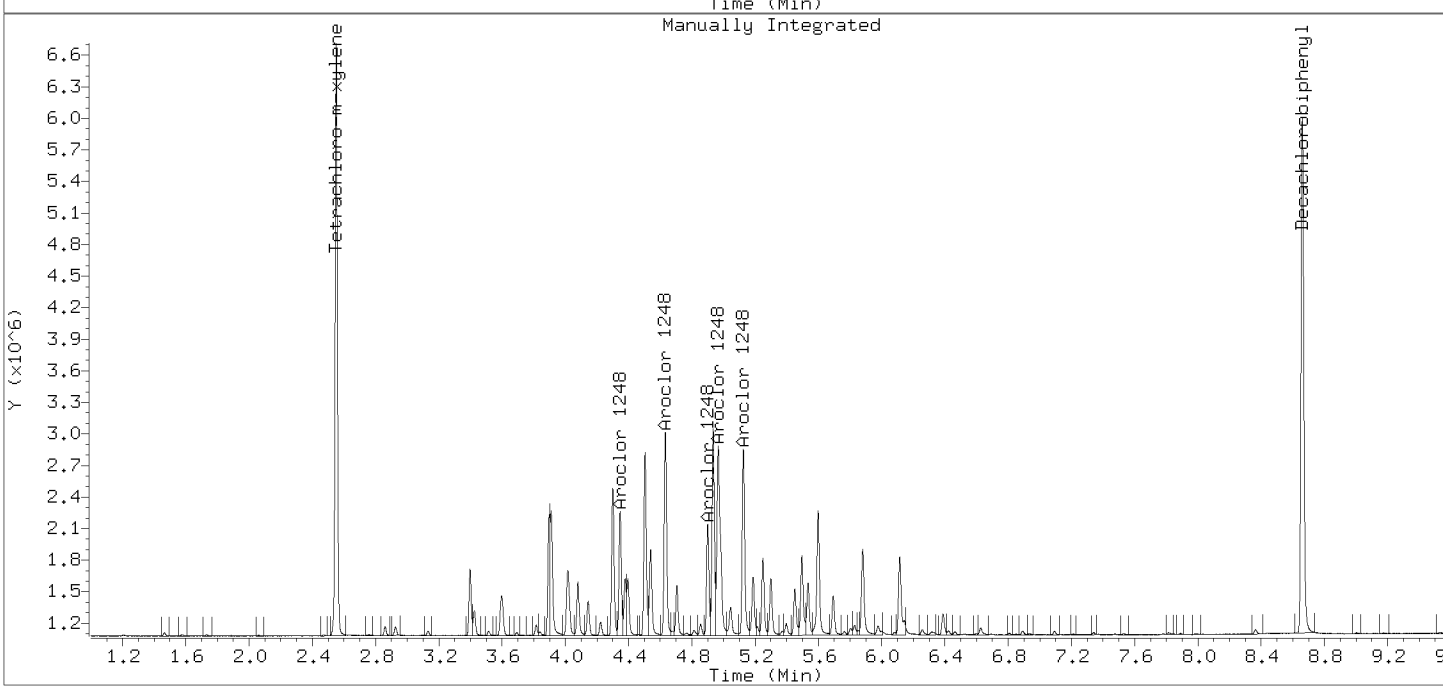
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618071.D (ManInt: AR1248.sub Orig: AR1248.sub)
Injection Date: 06-MAR-2018 20:27 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1248-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1248	1216314	1235926	BA
Aroclor 1248	1216314	1235926	BA
Aroclor 1248	1216314	1235926	BA
Aroclor 1248	1216314	1235926	BA
Aroclor 1248	1216314	1235926	BA
Tetrachloro-m-xylene	5622839	5622839	
Decachlorobiphenyl	6046113	6046113	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618073.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 06-MAR-2018 20:44
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17499,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.204	13094	11280	0.861	0.02		
1.465	29862	32643	1.093	0.05		
1.575	12332	13576	1.101	0.02		
1.731	10388	12227	1.177	0.01		
2.551	5583253	5645924	1.011	10.35	$ 2 Tetrachloro-m-xylene	
2.860	78158	79044	1.011	0.14		
2.926	14548	13755	0.946	0.02		
3.127	21779	17665	0.811	0.04		
3.395	21197	20407	0.963	0.03		
3.423	12600	12808	1.017	0.02		
3.596	19496	14521	0.745	0.03		
3.692	28523	30842	1.081	0.05		
3.898	70445	36440	0.517	0.13		
4.023	45190	33260	0.736	0.08		
4.080	22346	16223	0.726	0.04		
4.143	14211	12705	0.894	0.02		
4.299	1107384	1024748	0.925	2.05		
4.346	290789	278748	0.959	0.53		
4.377	43016	35659	0.829	0.07		
4.504	646750	620664	0.960	1.19		
4.540	71531	58299	0.815	0.13		
4.632	294651	269006	0.913	0.54		
4.679	10627	13548	1.275	0.01		
4.707	49717	41912	0.843	0.09		
4.768	20779	15376	0.740	0.03		
4.825	14907	11535	0.774	0.02		
4.854	20324	17750	0.873	0.03		
4.900	253270	239769	0.947	0.46		
4.935	994193	920584	0.926	1.84		
4.982	2331618	1832354	0.786	4.32		
5.045	391327	345983	0.884	0.72		
5.126	212630	174252	0.820	0.39		
5.187	1370639	1204079	0.878	2.54		
5.249	2580988	2296047	0.890	4.78	7 Aroclor 1254	BA
5.300	1203032	1036571	0.862	2.23		
5.371	75752	63764	0.842	0.14		
5.397	219205	192072	0.876	0.40		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.451	999567	923815	0.924	1.85	
5.495	2150736	1850994	0.861	3.98	7 Aroclor 1254
5.534	729871	643121	0.881	1.35	
5.567	281518	264968	0.941	0.52	
5.598	3796478	3337188	0.879	7.04	7 Aroclor 1254
5.664	53766	47959	0.892	0.09	
5.693	540416	463418	0.858	1.00	
5.763	374420	346649	0.926	0.69	
5.801	586424	374877	0.639	1.08	
5.829	350785	279878	0.798	0.65	
5.878	4042126	3031901	0.750	7.49	
5.973	387675	285939	0.738	0.71	
6.016	219422	139552	0.636	0.40	
6.081	358168	327247	0.914	0.66	
6.116	2432449	2014399	0.828	4.51	7 Aroclor 1254
6.143	1998733	1599118	0.800	3.70	
6.257	781132	644375	0.825	1.44	
6.317	315327	316670	1.004	0.58	
6.331	368403	296644	0.805	0.68	
6.389	3470573	2867476	0.826	6.43	7 Aroclor 1254
6.423	715959	607910	0.849	1.32	
6.463	397250	312479	0.787	0.73	
6.525	97826	58655	0.600	0.18	
6.598	135925	132717	0.976	0.25	
6.627	1209789	923831	0.764	2.24	
6.693	193943	148389	0.765	0.35	
6.750	43139	32184	0.746	0.08	
6.808	237605	201094	0.846	0.44	
6.847	144460	124835	0.864	0.26	
6.891	706750	612015	0.866	1.31	
6.932	216148	129637	0.600	0.40	
7.029	66004	55536	0.841	0.12	
7.093	499790	413928	0.828	0.92	
7.162	23657	19498	0.824	0.04	
7.340	406233	361785	0.891	0.75	
7.371	98083	82457	0.841	0.18	
7.481	17843	14747	0.826	0.03	
7.529	29189	22804	0.781	0.05	
7.640	15516	16252	1.047	0.02	
7.779	14707	14325	0.974	0.02	
7.816	15532	16355	1.053	0.02	
7.990	24516	18704	0.763	0.04	
8.364	55346	47337	0.855	0.10	
8.660	6109340	5000970	0.819	11.73	$ 12 Decachlorobiphenyl
9.176	10264	9273	0.903	0.01	
	53923356	46129945		100.000	

Total unknown % area = 51

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618073.D
Lab Smp Id: 1254-ICV Client Smp ID: 1254-ICV
Inj Date : 06-MAR-2018 20:44
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1254-icv, 185564:1
Misc Info : 17499,AR1254
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8		
2.550	2.550	0.000	5583252	0.05000	0.047			
7 Aroclor 1254						CAS #: 11097-69-1		
5.249	5.249	0.000	2580988	0.50000	0.45	0.00- 20.00	100.00(M)	BA
5.495	5.496	-0.001	2150736	0.50000	0.46	0.00- 20.00	83.33	BA
5.598	5.598	0.000	3796478	0.50000	0.44	0.00- 20.00	147.09	BA
6.116	6.117	-0.001	2432448	0.50000	0.45	0.00- 20.00	94.24	BA
6.388	6.388	0.000	3470573	0.50000	0.47	0.00- 20.00	134.47	BA
Average of Peak Amounts =					0.45400			
$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
8.659	8.660	-0.001	6109339	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.

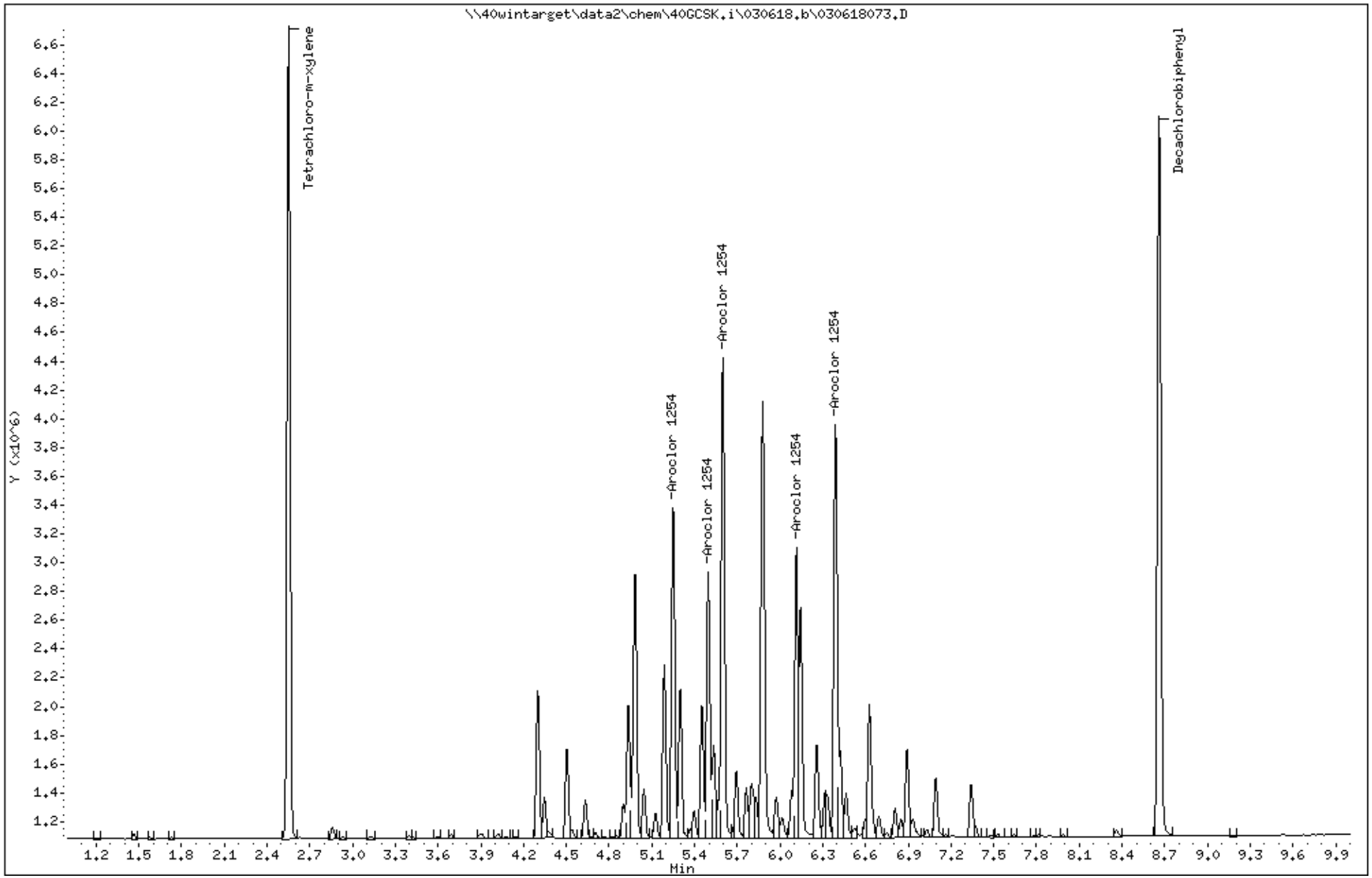
Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618073.D
Date : 06-MAR-2018 20:44
Client ID: 1254-ICV
Sample Info: 1254-ICV, 185564:1

Instrument: 40GCSK.i

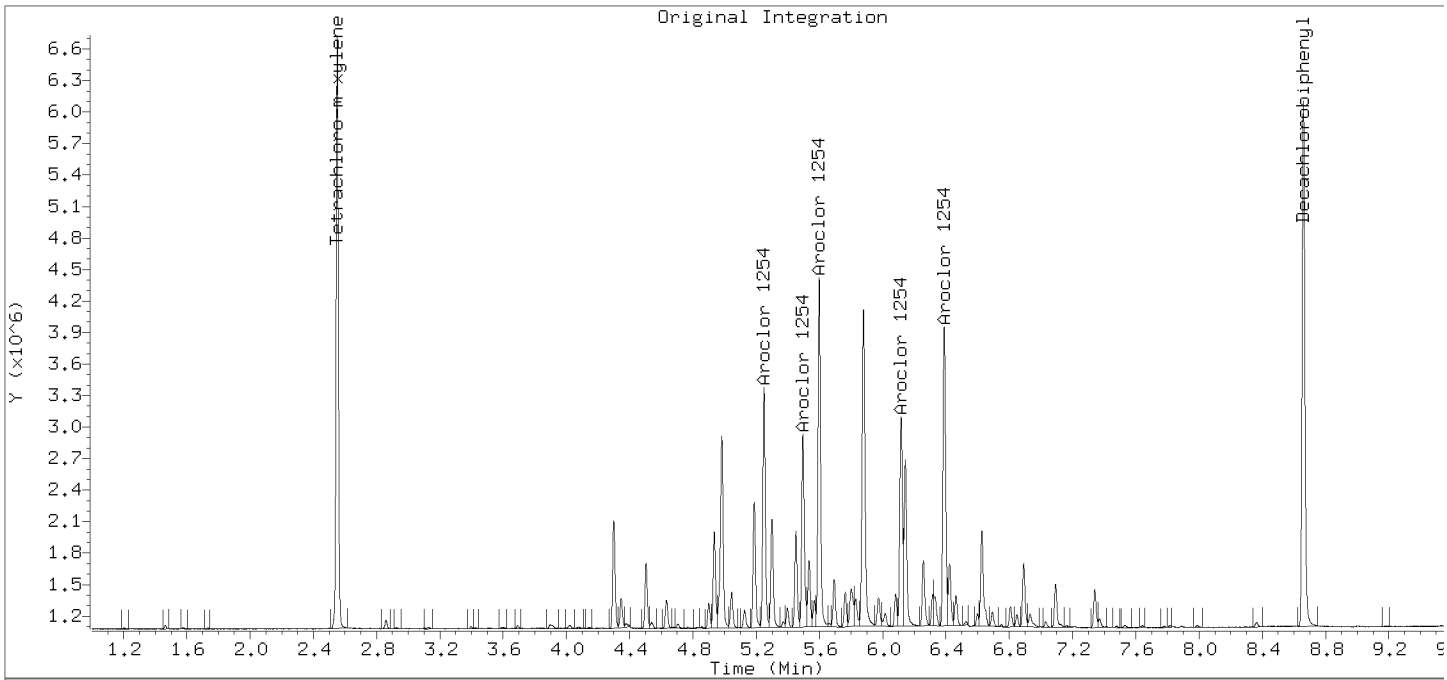
Operator: BLM

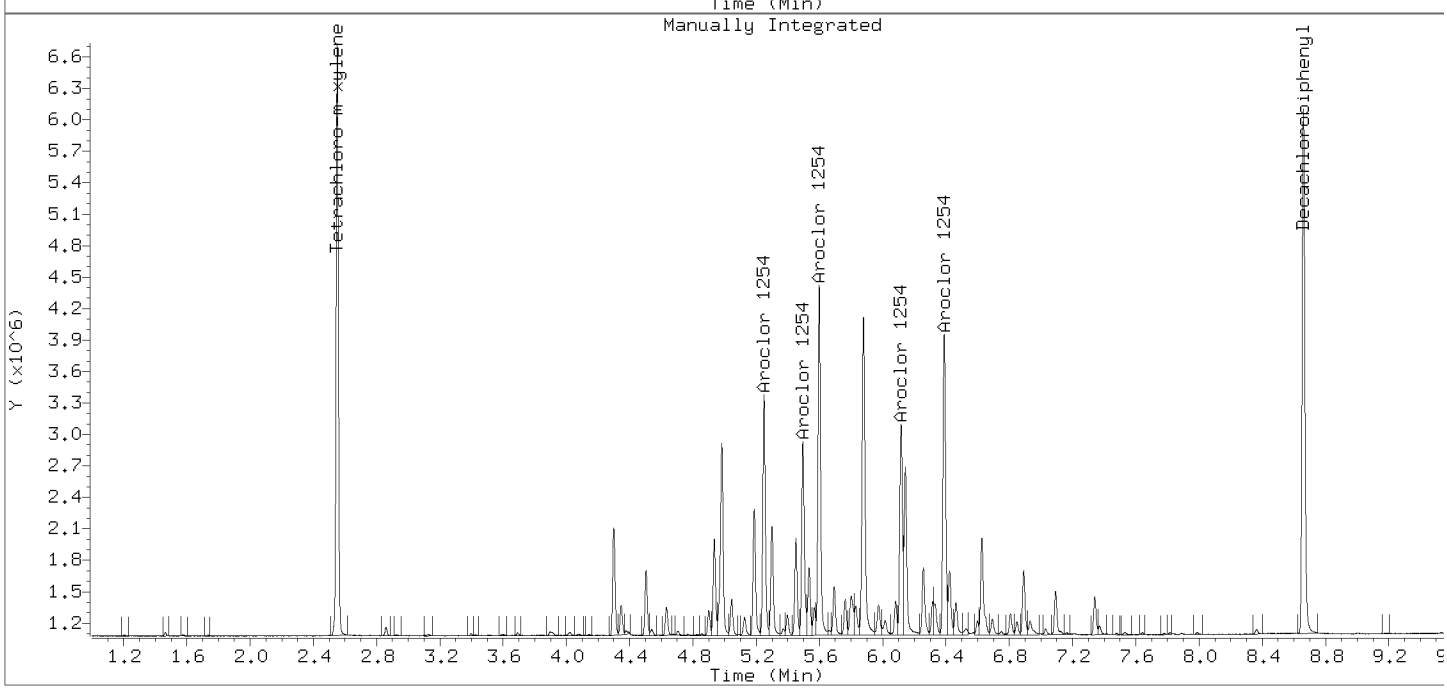
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618073.D (ManInt: AR1254.sub Orig: AR1254.sub)
Injection Date: 06-MAR-2018 20:44 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1254-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1254	2551112	2580988	BA
Aroclor 1254	2551112	2580988	BA
Aroclor 1254	2551112	2580988	BA
Aroclor 1254	2551112	2580988	BA
Aroclor 1254	2551112	2580988	BA
Tetrachloro-m-xylene	5583252	5583252	
Decachlorobiphenyl	6109339	6109339	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618075.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 06-MAR-2018 21:00
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17499,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.465	35028	31004	0.885	0.03		
1.575	11748	13046	1.110	0.01		
1.733	10695	13021	1.218	0.01		
1.853	10270	13093	1.275	0.01		
2.471	128983	105991	0.822	0.14		
2.551	5610633	5590656	0.996	6.31	$ 2 Tetrachloro-m-xylene	
2.758	186151	152006	0.817	0.20		
2.862	283471	264646	0.934	0.31		
2.925	1088126	1005271	0.924	1.22		
3.132	162984	153874	0.944	0.18		
3.359	21073	16298	0.773	0.02		
3.397	1545983	1454867	0.941	1.73	5 Aroclor 1016	BA
3.424	941498	853077	0.906	1.05		
3.515	250077	218468	0.874	0.28		
3.595	1573153	1120236	0.712	1.77	5 Aroclor 1016	BA
3.693	39306	33963	0.864	0.04		
3.728	25226	18330	0.727	0.02		
3.780	42686	40420	0.947	0.04		
3.815	391624	387859	0.990	0.44		
3.838	265955	238237	0.896	0.29		
3.911	4666036	2643863	0.567	5.25	5 Aroclor 1016	BA
4.013	1980703	1578667	0.797	2.22	5 Aroclor 1016	BA
4.080	1328553	1207667	0.909	1.49	5 Aroclor 1016	BA
4.144	403055	357181	0.886	0.45		
4.222	151682	133835	0.882	0.17		
4.300	1113930	1038394	0.932	1.25		
4.346	1048223	979152	0.934	1.17		
4.378	419275	453413	1.081	0.47		
4.396	589229	519421	0.882	0.66		
4.460	31441	20515	0.652	0.03		
4.504	1378292	1281444	0.930	1.55		
4.539	959863	774739	0.807	1.08		
4.633	1625915	1438556	0.885	1.82		
4.705	314243	273014	0.869	0.35		
4.768	21804	16678	0.765	0.02		
4.813	35723	27487	0.769	0.04		
4.856	32446	25530	0.787	0.03		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.901	153916	145876	0.948	0.17	
4.936	247049	219685	0.889	0.27	
4.982	1240018	1001816	0.808	1.39	
5.045	59953	43271	0.722	0.06	
5.127	83358	69132	0.829	0.09	
5.188	246735	221695	0.899	0.27	
5.250	1226091	1106130	0.902	1.37	
5.301	42563	33982	0.798	0.04	
5.396	14341	10273	0.716	0.01	
5.452	56216	50180	0.893	0.06	
5.496	274719	249583	0.909	0.30	
5.532	12254	15315	1.250	0.01	
5.567	536582	514072	0.958	0.60	
5.598	775964	711595	0.917	0.87	
5.692	15479	11456	0.740	0.01	
5.763	1429695	1331328	0.931	1.60	
5.798	987673	557179	0.564	1.11	
5.873	3390118	2878015	0.849	3.81	
5.972	220155	190834	0.867	0.24	
6.016	102444	82817	0.808	0.11	
6.081	575788	535802	0.931	0.64	
6.119	1194602	1201372	1.006	1.34	
6.144	3968852	3331931	0.840	4.46	
6.257	2572585	1564834	0.608	2.89	
6.346	526474	321727	0.611	0.59	
6.389	4589552	3671001	0.800	5.16	8 Aroclor 1260
6.422	669026	578015	0.864	0.75	
6.463	170048	119235	0.701	0.19	
6.521	518370	453586	0.875	0.58	
6.573	104308	129826	1.245	0.11	
6.598	2429314	2110535	0.869	2.73	
6.626	354807	400080	1.128	0.39	
6.649	1504147	1304482	0.867	1.69	
6.694	152211	106316	0.698	0.17	
6.749	471889	433006	0.918	0.53	
6.806	2632372	2361880	0.897	2.96	
6.848	1502003	1325308	0.882	1.69	
6.893	1131217	972489	0.860	1.27	
6.927	218263	193156	0.885	0.24	
6.957	111862	94116	0.841	0.12	
7.002	159188	147534	0.927	0.17	
7.031	522212	470098	0.900	0.58	
7.093	5840101	5036860	0.862	6.57	8 Aroclor 1260
7.123	409581	414776	1.013	0.46	
7.164	201207	146819	0.730	0.22	
7.210	247282	202911	0.821	0.27	
7.340	2767804	2498711	0.903	3.11	8 Aroclor 1260
7.370	849560	657810	0.774	0.95	
7.478	1437686	1163043	0.809	1.61	
7.531	1682583	1411392	0.839	1.89	8 Aroclor 1260
7.640	112069	87578	0.781	0.12	
7.779	690529	604808	0.876	0.77	
7.817	164961	128495	0.779	0.18	
7.889	73612	59695	0.811	0.08	
7.989	1645186	1369373	0.832	1.85	8 Aroclor 1260
8.053	122054	89507	0.733	0.13	
8.364	566678	482196	0.851	0.63	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.659	6115700	5113480	0.836	7.36	$ 12 Decachlorobiphenyl
9.525	11181	8768	0.784	0.01	
	88857271	75240704		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030618.b\030618075.D
Lab Smp Id: 1660-ICV Client Smp ID: 1660-ICV
Inj Date : 06-MAR-2018 21:00
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1660-icv, 185565:1
Misc Info : 17499,AR1660
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030618.b\pcba030618.m
Meth Date : 23-Mar-2018 13:17 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: RC10A Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	REVIEW CODE
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.551	2.550	0.001	5610632	0.05000	0.047			
5 Aroclor 1016					CAS #: 12674-11-2			
3.396	3.397	-0.001	1545983	0.50000	0.51	0.00- 20.00	100.00(M)	BA
3.595	3.595	0.000	1573153	0.50000	0.51	0.00- 20.00	101.76	BA
3.910	3.910	0.000	4666036	0.50000	0.50	0.00- 20.00	301.82	BA
4.013	4.013	0.000	1980702	0.50000	0.50	0.00- 20.00	128.12	BA
4.079	4.079	0.000	1328553	0.50000	0.50	0.00- 20.00	85.94	BA
Average of Peak Amounts =					0.50400			
8 Aroclor 1260					CAS #: 11096-82-5			
6.388	6.388	0.000	4589551	0.50000	0.47	0.00- 20.00	100.00(M)	CO
7.092	7.092	0.000	5840101	0.50000	0.51	0.00- 20.00	127.25	CO
7.340	7.340	0.000	2767804	0.50000	0.50	0.00- 20.00	60.31	CO
7.530	7.531	-0.001	1682583	0.50000	0.50	0.00- 20.00	36.66	CO
7.989	7.988	0.001	1645185	0.50000	0.53	0.00- 20.00	35.85	CO
Average of Peak Amounts =					0.50200			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.659	8.660	-0.001	6115699	0.05000	0.047			

QC Flag Legend

M - Compound response manually integrated.

QC Flag Legend

Review Codes Legend

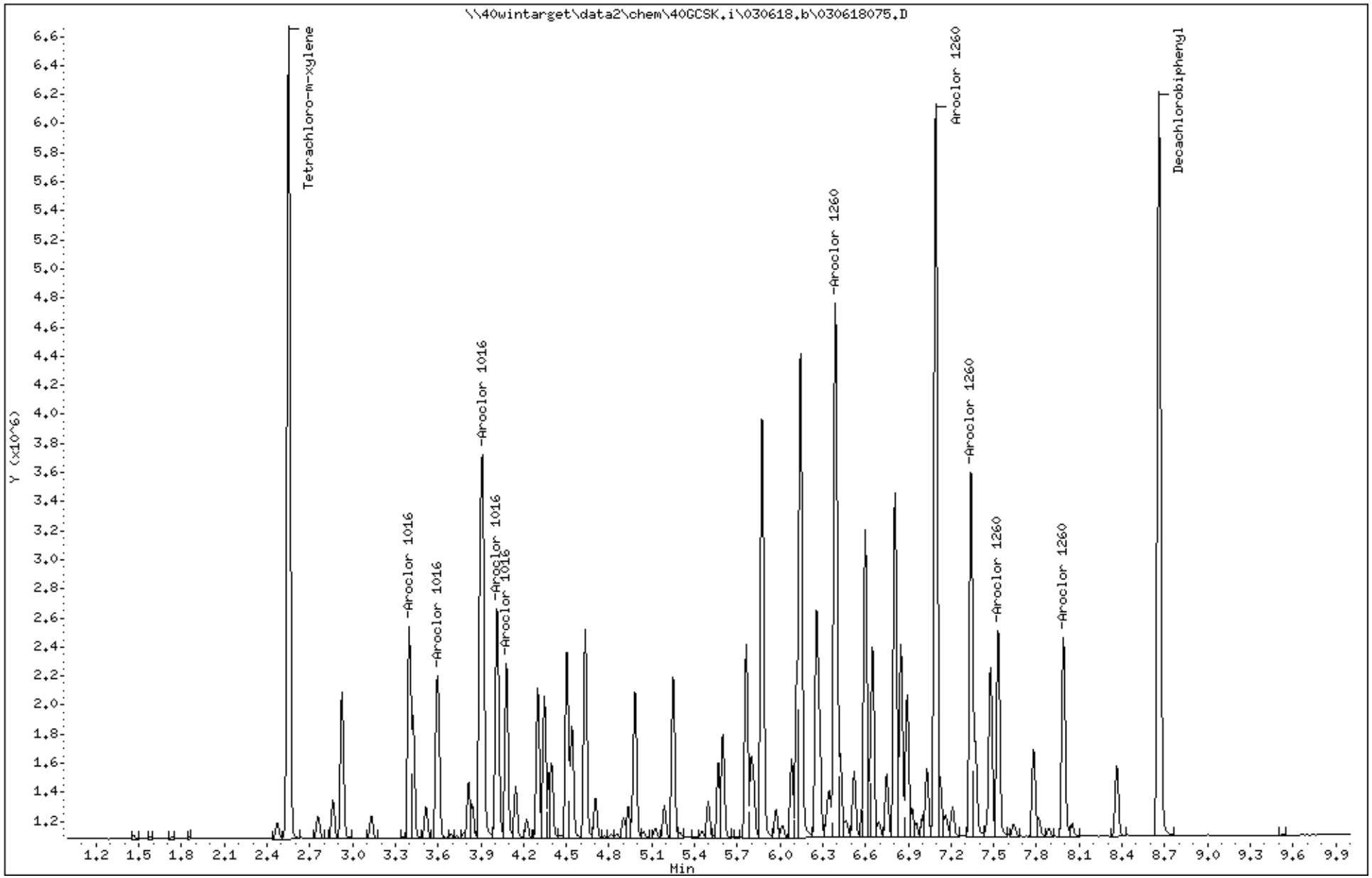
BA: Indicates that the baseline had to be adjusted correctly by the analyst.
CO: Indicates that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b\030618075.D
Date : 06-MAR-2018 21:00
Client ID: 1660-ICV
Sample Info: 1660-ICV, 185565:1

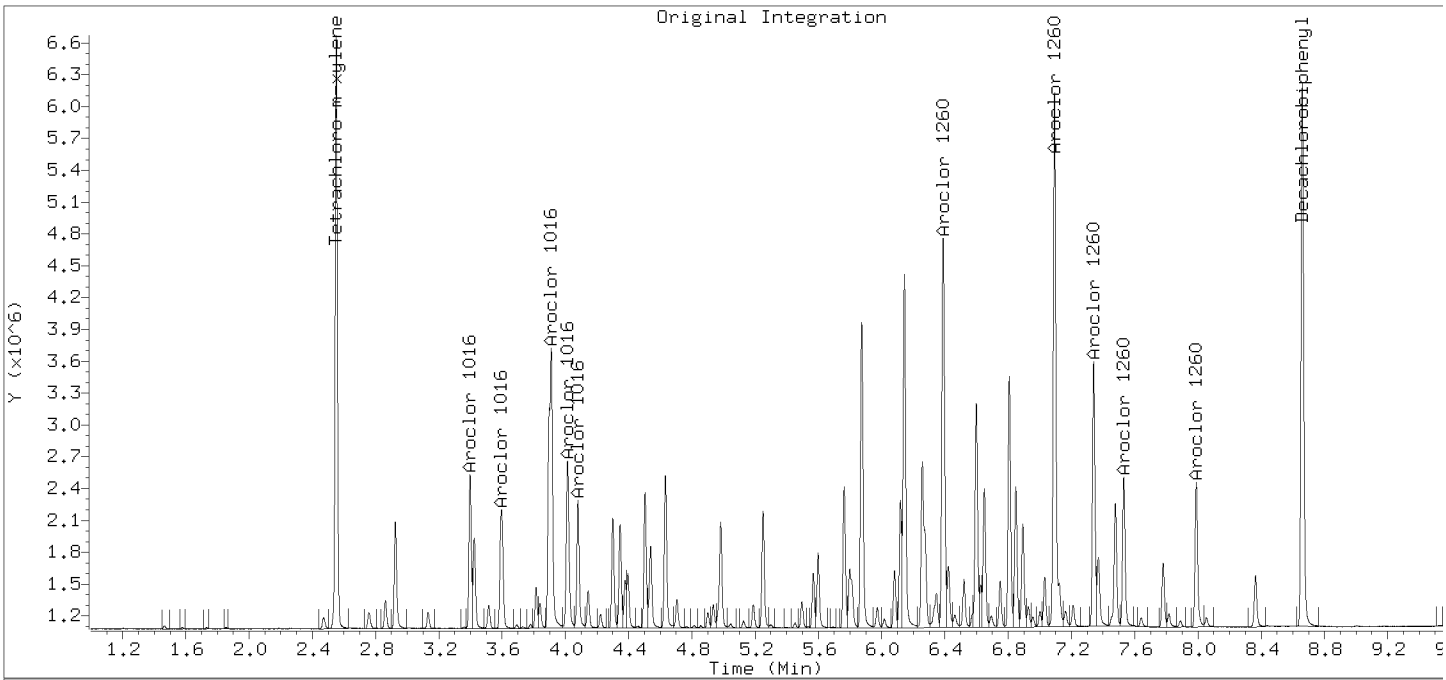
Column phase: ZB-1ms

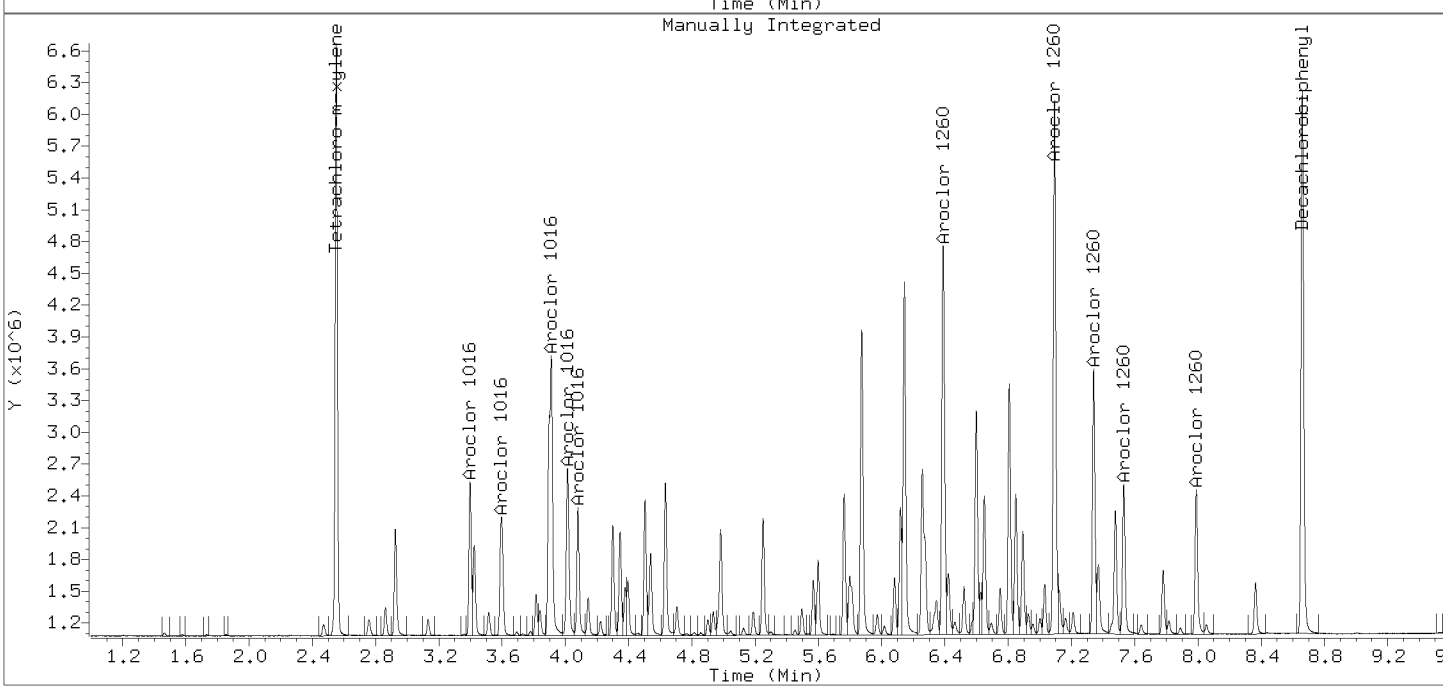
Instrument: 40GCSK.i

Operator: BLM
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030618.b/030618075.D (ManInt: AR1660.sub Orig: AR1660.sub)
Injection Date: 06-MAR-2018 21:00 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1660-ICV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1539639	1545983	BA
Aroclor 1016	1539639	1545983	BA
Aroclor 1016	1539639	1545983	BA
Aroclor 1016	1539639	1545983	BA
Aroclor 1016	1539639	1545983	BA
Aroclor 1260	4583986	4589551	CO
Aroclor 1260	4583986	4589551	CO
Aroclor 1260	4583986	4589551	CO
Aroclor 1260	4583986	4589551	CO
Aroclor 1260	4583986	4589551	CO
Tetrachloro-m-xylene	5610632	5610632	
Decachlorobiphenyl	6115699	6115699	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718007.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 07-MAR-2018 13:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17499,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 7 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
1.201	14179	16044	1.132	0.08			
1.465	43356	37659	0.869	0.24			
1.578	19071	15457	0.810	0.10			
1.733	14851	14919	1.005	0.08			
1.854	472150	477580	1.012	2.68		1 Aroclor 1221	BA
2.060	19015	12118	0.637	0.10			
2.260	152563	137882	0.904	0.86			
2.473	253043	191104	0.755	1.43		1 Aroclor 1221	BA
2.551	5718362	5737508	1.003	32.47	$	2 Tetrachloro-m-xylene	BA
2.760	671500	547279	0.815	3.81		1 Aroclor 1221	BA
2.863	524256	507645	0.968	2.97		1 Aroclor 1221	BA
2.925	1633977	1430747	0.876	9.27		1 Aroclor 1221	BA
3.130	33473	29399	0.878	0.19			
3.361	108190	82054	0.758	0.61			
3.405	381441	195655	0.513	2.16			
3.517	28471	27985	0.983	0.16			
3.595	141929	102715	0.724	0.80			
3.692	30656	33320	1.087	0.17			
3.773	11313	7954	0.703	0.06			
3.816	38223	38222	1.000	0.21			
3.839	52559	36803	0.700	0.29			
3.911	334708	190606	0.569	1.90			
4.013	158466	128375	0.810	0.89			
4.081	92188	83107	0.901	0.52			
4.137	45197	36958	0.818	0.25			
4.300	30861	31272	1.013	0.17			
4.347	27195	26660	0.980	0.15			
4.379	18356	15020	0.818	0.10			
4.503	44506	41711	0.937	0.25			
4.537	52809	33213	0.629	0.29			
4.632	59220	46369	0.783	0.33			
4.706	15393	13926	0.905	0.08			
4.903	20262	19283	0.952	0.11			
4.935	35202	31431	0.893	0.19			
4.966	51395	31859	0.620	0.29			
5.129	36834	30128	0.818	0.20			
5.187	10251	8108	0.791	0.05			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.599	16947	13440	0.793	0.09	
7.816	26170	16935	0.647	0.14	
8.363	44802	40137	0.896	0.25	
8.659	6106094	5157020	0.845	34.91	$ 12 Decachlorobiphenyl
8.998	18805	12607	0.670	0.10	
	17608242	15688214		100.000	

Total unknown % area = 12

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718007.D
Lab Smp Id: 1221-CCV Client Smp ID: 1221-CCV
Inj Date : 07-MAR-2018 13:58
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1221-ccv, 185538:1
Misc Info : 17499,AR1221
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 7 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			
2.551	2.550	0.001	5718362	0.05000	0.048		(M)	BA
1 Aroclor 1221					CAS #: 11104-28-2			
1.854	1.853	0.001	472149	0.50000	0.47	0.00- 20.00	100.00(M)	BA
2.472	2.472	0.000	253043	0.50000	0.47	0.00- 20.00	53.59	BA
2.760	2.760	0.000	671500	0.50000	0.48	0.00- 20.00	142.22	BA
2.862	2.862	0.000	524255	0.50000	0.47	0.00- 20.00	111.04	BA
2.925	2.926	-0.001	1633976	0.50000	0.49	0.00- 20.00	346.07	BA
Average of Peak Amounts =					0.47600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.659	8.660	-0.001	6106094	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.

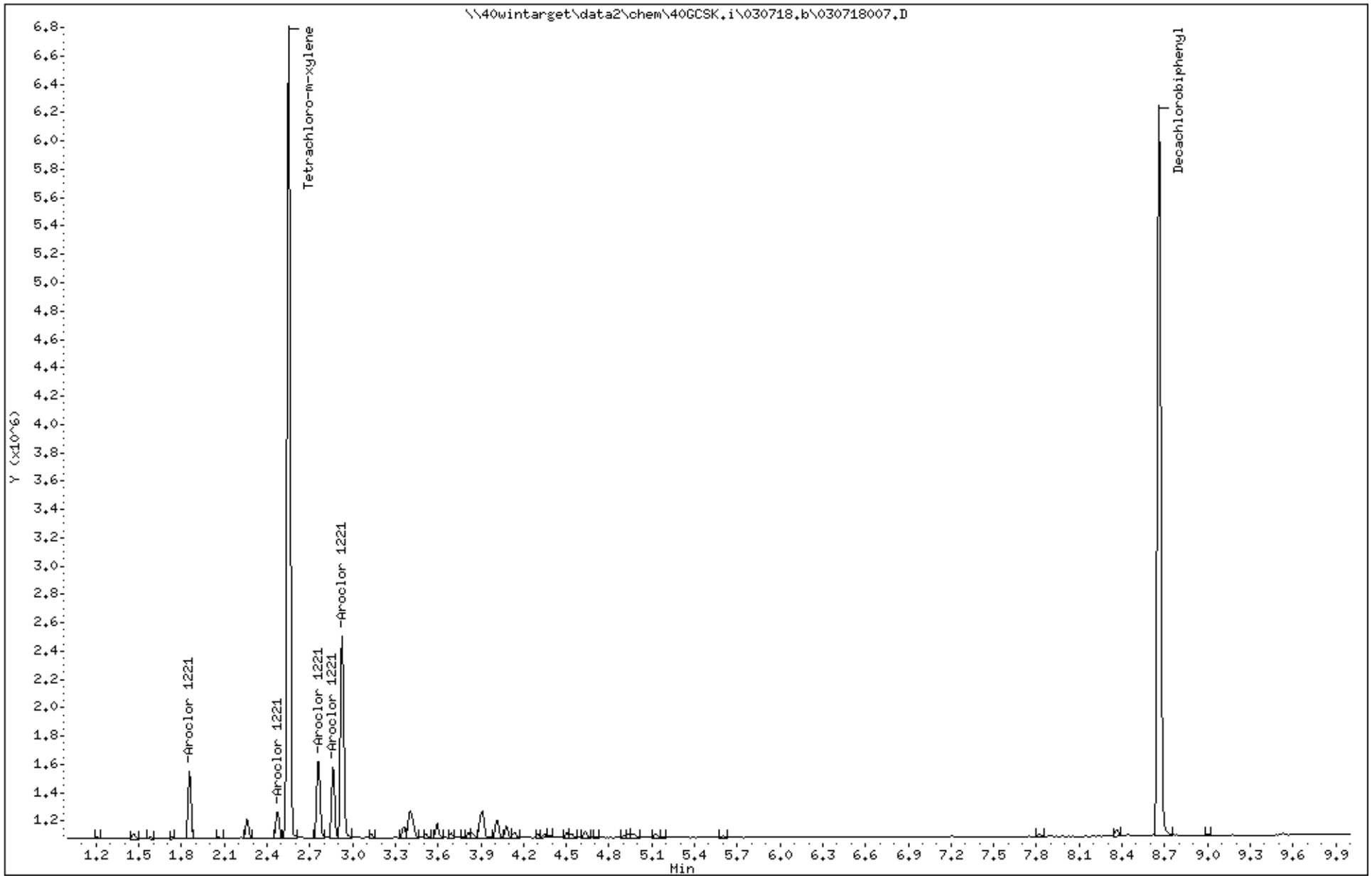
Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b\030718007.D
Date : 07-MAR-2018 13:58
Client ID: 1221-CCV
Sample Info: 1221-CCV, 185538:1

Instrument: 40GCSK.i

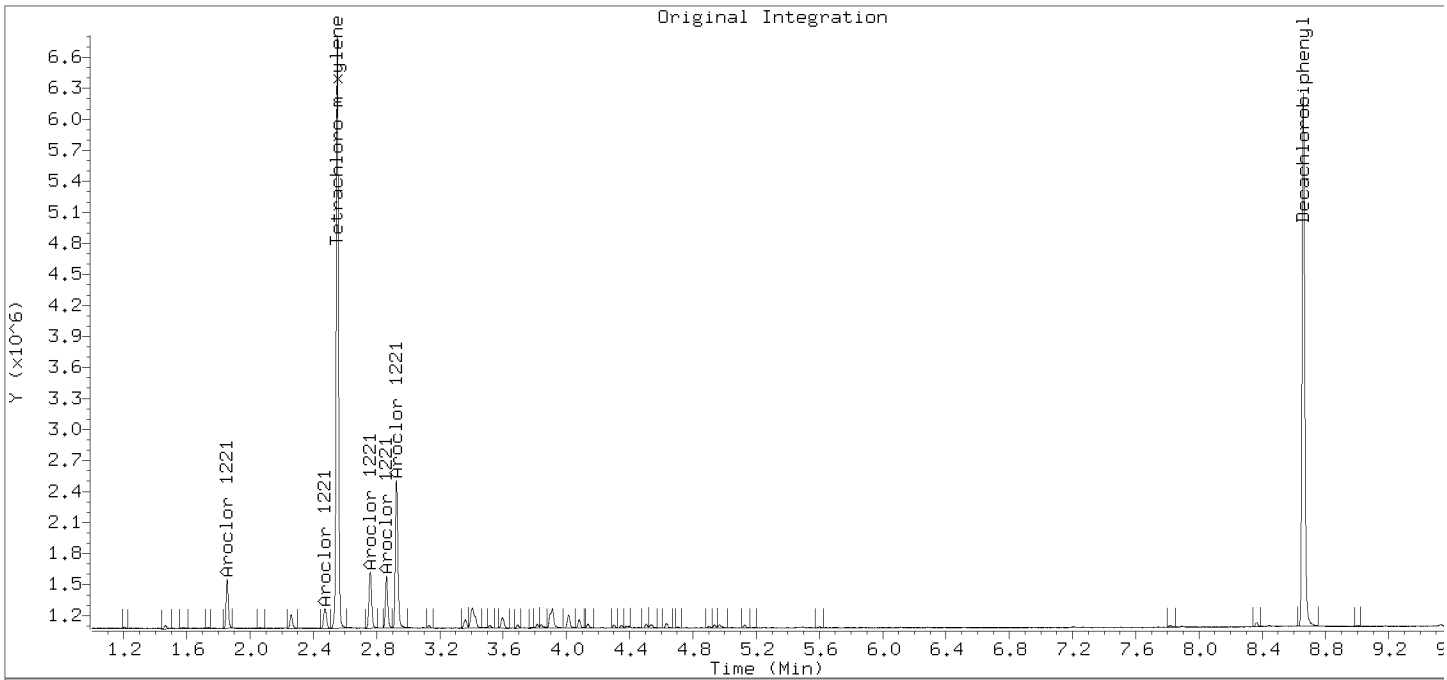
Operator: BLM

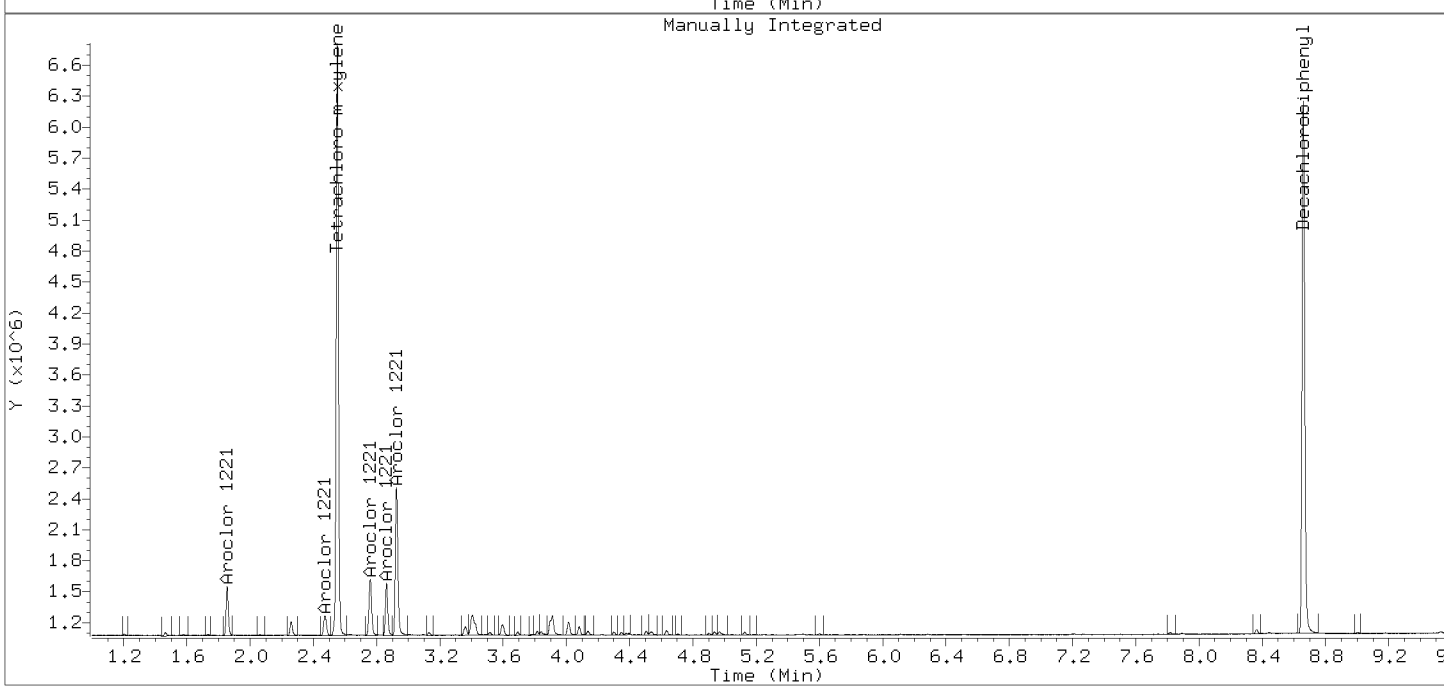
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b/030718007.D (ManInt: AR1221.sub Orig: AR1221.sub)
Injection Date: 07-MAR-2018 13:58 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1221-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1221	464002	472149	BA
Aroclor 1221	464002	472149	BA
Aroclor 1221	464002	472149	BA
Aroclor 1221	464002	472149	BA
Aroclor 1221	464002	472149	BA
Tetrachloro-m-xylene	5691917	5718362	BA
Decachlorobiphenyl	6106094	6106094	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718031.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 07-MAR-2018 17:11
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17499,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 31 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	26185	25548	0.976	0.09		
1.243	10008	10222	1.021	0.03		
1.464	31336	34392	1.098	0.10		
1.576	20308	17152	0.845	0.07		
1.733	32833	28323	0.863	0.11		
1.854	288375	290021	1.006	0.99		
2.062	18956	15670	0.827	0.06		
2.259	89764	83243	0.927	0.31		
2.472	194051	151527	0.781	0.67		
2.551	5869925	6026831	1.027	20.28	$ 2 Tetrachloro-m-xylene	
2.759	452325	370541	0.819	1.56		
2.863	414144	403848	0.975	1.43		
2.925	1366525	1233246	0.902	4.72	4 Aroclor 1232	BA
3.089	13479	11850	0.879	0.04		
3.131	83791	76149	0.909	0.28		
3.360	73974	55418	0.749	0.25		
3.397	764113	696996	0.912	2.64		
3.424	449986	405375	0.901	1.55		
3.515	124327	107837	0.867	0.42		
3.595	714207	527949	0.739	2.46	4 Aroclor 1232	BA
3.691	39355	37859	0.962	0.13		
3.779	24437	23463	0.960	0.08		
3.814	185431	182388	0.984	0.64		
3.839	154396	124977	0.809	0.53		
3.911	2104013	1209323	0.575	7.27	4 Aroclor 1232	BA
4.014	896552	736313	0.821	3.09	4 Aroclor 1232	BA
4.079	592263	561277	0.948	2.04	4 Aroclor 1232	BA
4.144	183427	143552	0.783	0.63		
4.222	67982	55121	0.811	0.23		
4.299	421184	398627	0.946	1.45		
4.347	410555	388096	0.945	1.41		
4.378	176799	182421	1.032	0.61		
4.396	213941	197530	0.923	0.73		
4.503	561734	544451	0.969	1.94		
4.537	496325	337042	0.679	1.71		
4.632	736436	686380	0.932	2.54		
4.705	171056	161860	0.946	0.59		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.768	11377	10474	0.921	0.03	
4.812	37601	32140	0.855	0.12	
4.856	38446	37230	0.968	0.13	
4.900	341529	330863	0.969	1.18	
4.934	608284	592190	0.974	2.10	
4.965	792520	605619	0.764	2.73	
5.047	83478	66014	0.791	0.28	
5.125	664276	609712	0.918	2.29	
5.187	121036	91767	0.758	0.41	
5.249	138145	122528	0.887	0.47	
5.299	106773	91800	0.860	0.36	
5.398	21315	20907	0.981	0.07	
5.450	86663	75266	0.868	0.29	
5.496	149213	125569	0.842	0.51	
5.534	92065	79211	0.860	0.31	
5.598	248246	184688	0.744	0.85	
5.693	72633	64009	0.881	0.25	
5.766	21424	15490	0.723	0.07	
5.806	16184	13993	0.865	0.05	
5.828	20418	17066	0.836	0.07	
5.880	169856	136768	0.805	0.58	
5.975	22465	15341	0.683	0.07	
6.113	137792	118488	0.860	0.47	
6.143	35827	32631	0.911	0.12	
6.389	45014	40042	0.890	0.15	
6.807	14679	14822	1.010	0.05	
7.091	26780	24859	0.928	0.09	
7.196	17080	11680	0.684	0.05	
7.341	14759	13060	0.885	0.05	
7.817	13361	14616	1.094	0.04	
8.364	54457	44800	0.823	0.18	
8.439	11054	11056	1.000	0.03	
8.659	6224337	5407017	0.869	21.87	$ 12 Decachlorobiphenyl
	28933582	25614534		100.000	

Total unknown % area = 38

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718031.D
Lab Smp Id: 1232-CCV Client Smp ID: 1232-CCV
Inj Date : 07-MAR-2018 17:11
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1232-ccv, 185539:1
Misc Info : 17499,AR1232
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 31 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	2.550	0.000	5869925	0.05000	0.050			
4 Aroclor 1232					CAS #: 1114-16-5			
2.924	2.924	0.000	1366524	0.50000	0.50	0.00- 20.00	100.00(M)	BA
3.594	3.596	-0.002	714206	0.50000	0.50	0.00- 20.00	52.26	BA
3.910	3.910	0.000	2104013	0.50000	0.49	0.00- 20.00	153.97	BA
4.013	4.013	0.000	896552	0.50000	0.50	0.00- 20.00	65.61	BA
4.078	4.080	-0.002	592263	0.50000	0.49	0.00- 20.00	43.34	BA
Average of Peak Amounts =					0.49600			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.659	8.660	-0.001	6224337	0.05000	0.048			

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

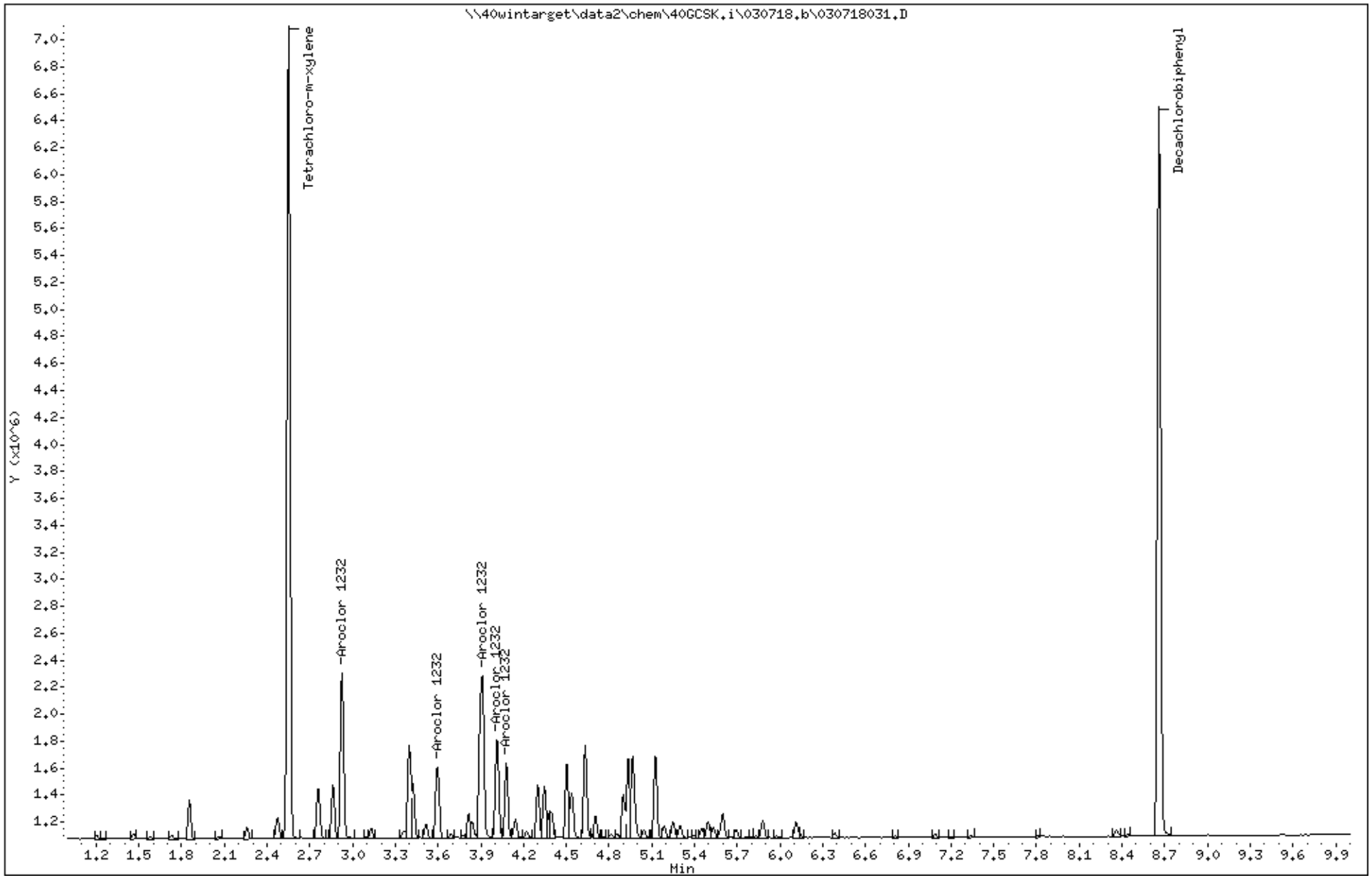
Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b\030718031.D
Date : 07-MAR-2018 17:11
Client ID: 1232-CCV
Sample Info: 1232-CCV, 185539:1

Instrument: 40GCSK.i

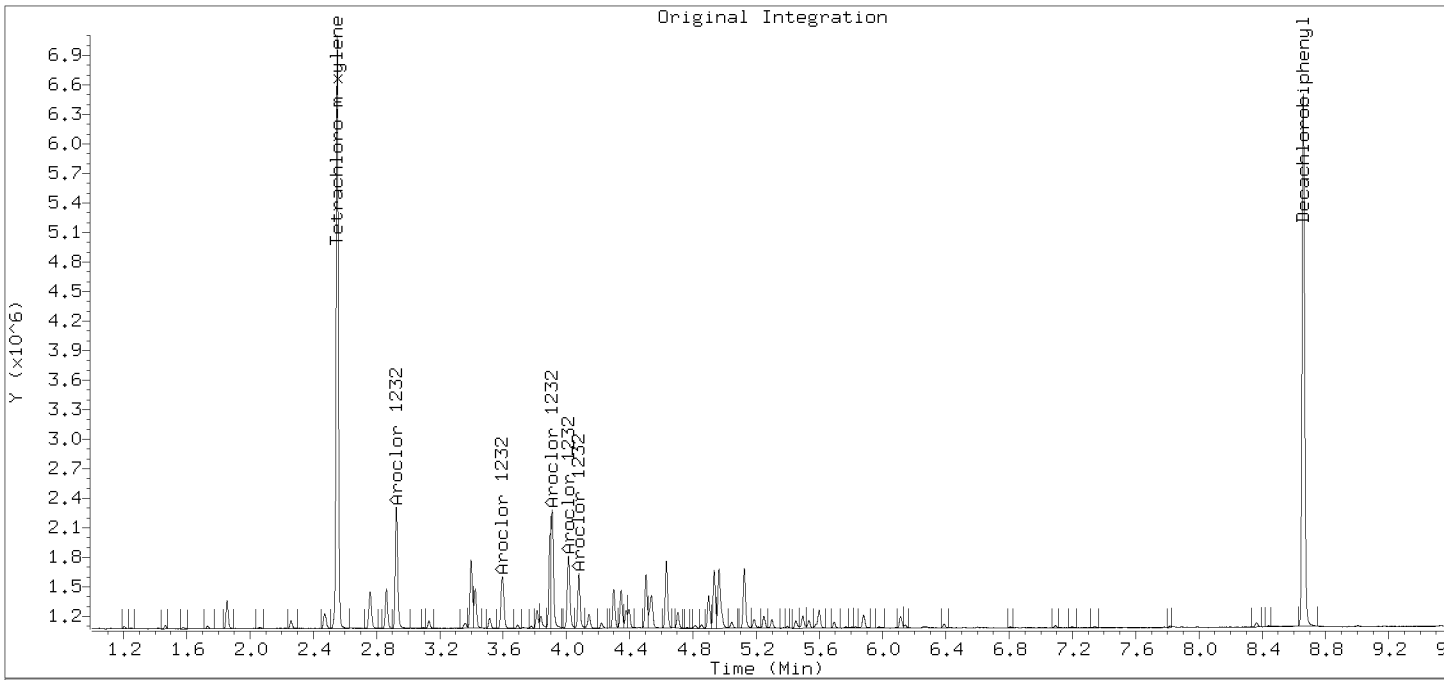
Operator: BLM

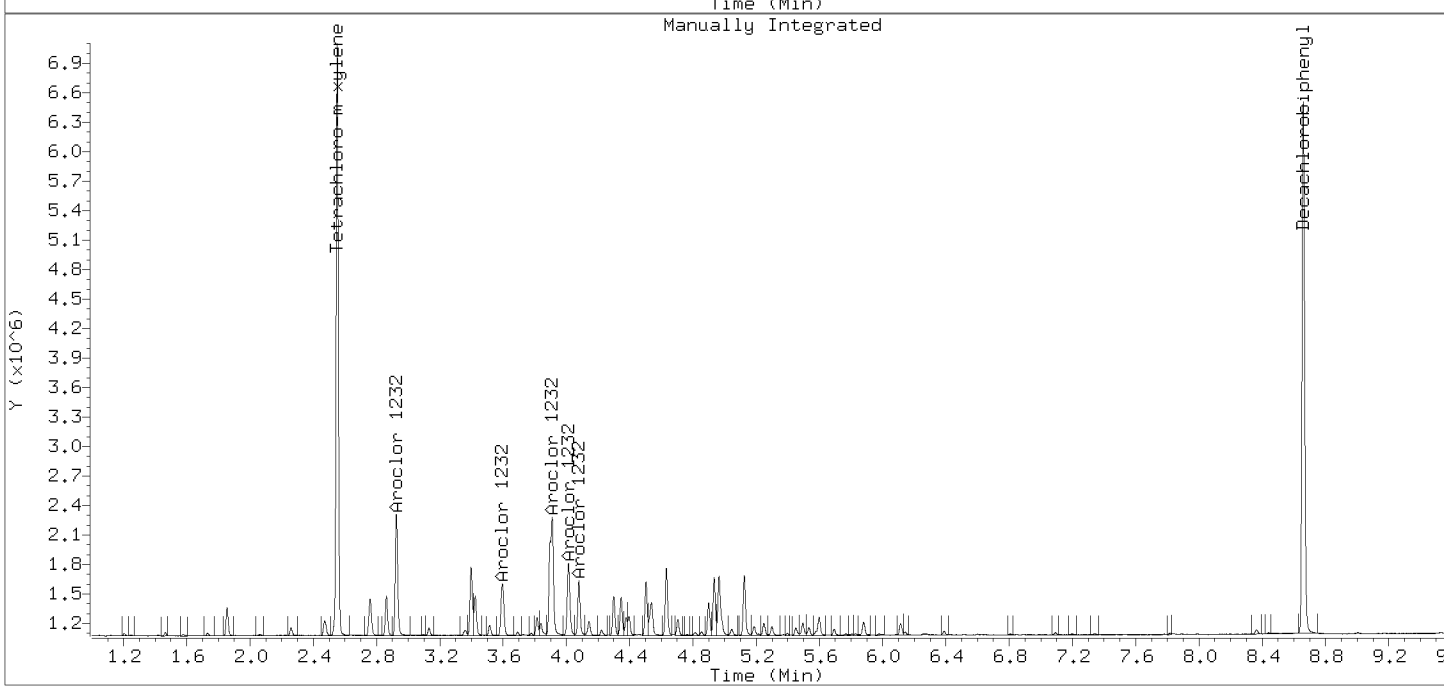
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b/030718031.D (ManInt: AR1232.sub Orig: AR1232.sub)
Injection Date: 07-MAR-2018 17:11 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1232-CCV





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1232	1353134	1366524	BA
Aroclor 1232	1353134	1366524	BA
Aroclor 1232	1353134	1366524	BA
Aroclor 1232	1353134	1366524	BA
Aroclor 1232	1353134	1366524	BA
Tetrachloro-m-xylene	5869925	5869925	
Decachlorobiphenyl	6224337	6224337	

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.: 40148598

Date Extracted: 03/02/2018 06:50

Lab Sample ID: 1653810

Date Analyzed: 03/07/2018 14:30

Lab File ID: 030718.B\030718011.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\030718.b\030718011.D
Lab Smp Id: 1653810 Client Smp ID: MB
Inj Date : 07-MAR-2018 14:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1653810,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 11 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
1.207	17169	16457	0.959	0.08		
1.466	11263	11421	1.014	0.05		
1.577	12087	9196	0.761	0.05		
1.734	19991	23492	1.175	0.09		
2.062	14291	10909	0.763	0.06		
2.552	9032864	9129544	1.011	43.51	$ 2 Tetrachloro-m-xylene	
2.862	22437	18434	0.822	0.10		
2.931	34916	23675	0.678	0.16		
2.988	11618	9375	0.807	0.05		
3.093	14358	11320	0.788	0.06		
4.134	11290	11124	0.985	0.05		
4.957	13126	10718	0.817	0.06		
5.247	9768	8814	0.902	0.04	7 Aroclor 1254	
5.301	10500	9454	0.900	0.05		
5.470	17703	15569	0.879	0.08	7 Aroclor 1254	
5.599	11255	8445	0.750	0.05	7 Aroclor 1254	
6.145	11017	9272	0.842	0.05	7 Aroclor 1254	
6.391	18635	14490	0.778	0.08	7 Aroclor 1254	
7.092	11645	8567	0.736	0.05		
7.215	12106	10422	0.861	0.05		
7.816	35366	31049	0.878	0.17		
7.890	29898	17617	0.589	0.14		
8.137	9958	8167	0.820	0.04		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.363	89754	79036	0.881	0.43	
8.661	11241681	9644863	0.858	54.30	$ 12 Decachlorobiphenyl
9.008	23174	13632	0.588	0.11	
9.525	9975	11020	1.105	0.04	
	20757846	19176082		100.000	

Total unknown % area = 1.9

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718011.D
Lab Smp Id: 1653810 Client Smp ID: MB
Inj Date : 07-MAR-2018 14:30
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1653810,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 11 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		
2.552	2.550	0.002	9032863	0.07628	38			

---

3 Aroclor 1242 CAS #: 53469-21-9

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

---

4 Aroclor 1232 CAS #: 1114-16-5

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

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

5 Aroclor 1016 CAS #: 12674-11-2

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

---

6 Aroclor 1248 CAS #: 12672-29-6

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

---

7 Aroclor 1254 CAS #: 11097-69-1

Qualifier signal(s) failed ratio test.

---

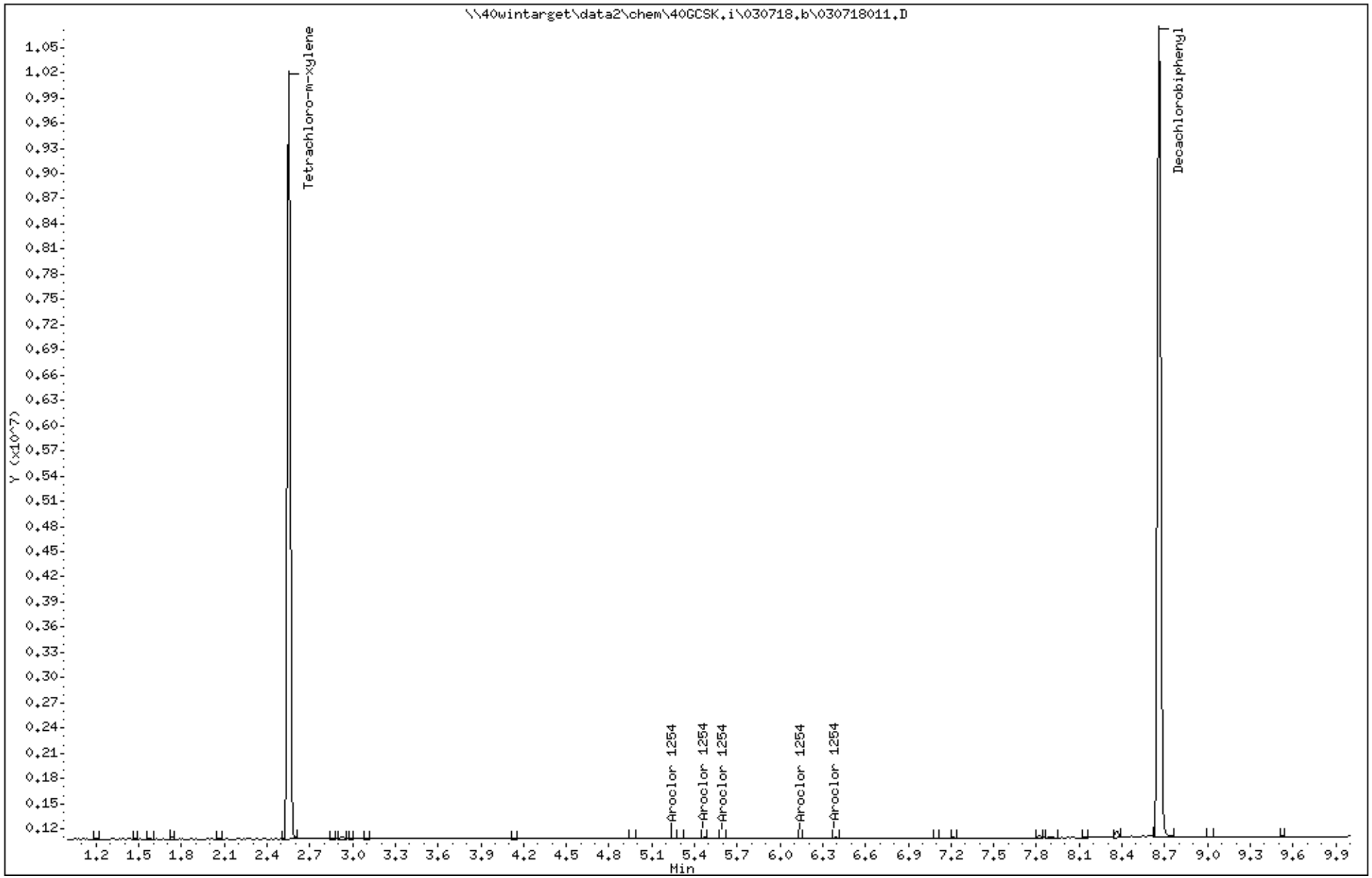
8 Aroclor 1260 CAS #: 11096-82-5

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

$ 12 Decachlorobiphenyl CAS #: 2051-24-3

8.660	8.660	0.000	11241681	0.08721		44		

Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b\030718011.D
Date : 07-MAR-2018 14:30
Client ID: MB
Instrument: 40GCSK.i
Sample Info: 1653810,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b/030718011.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 14:30 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1653810

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	9032863	9032863	
Decachlorobiphenyl	11241681	11241681	

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.: 40148598

Date Extracted: 03/02/2018 06:50

Lab Sample ID: 1653811

Date Analyzed: 03/07/2018 14:46

Lab File ID: 030718.B\030718013.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)	228	
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\030718.b\030718013.D
Lab Smp Id: 1653811 Client Smp ID: MBLCS
Inj Date : 07-MAR-2018 14:46
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1653811,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 13 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	31134	32323	1.038	0.06		
1.466	11258	10832	0.962	0.02		
1.574	10282	9197	0.894	0.02		
1.732	23869	24439	1.024	0.05		
1.854	13548	13323	0.983	0.02		
2.063	20259	16076	0.794	0.04		
2.471	103677	84855	0.818	0.22		
2.551	9432663	9746596	1.033	20.29	$ 2 Tetrachloro-m-xylene	
2.757	163992	130548	0.796	0.35		
2.863	206248	192279	0.932	0.44		
2.925	920982	855795	0.929	1.98		
3.096	17881	17763	0.993	0.03		
3.133	115185	107101	0.930	0.24		
3.358	22376	17433	0.779	0.04		
3.398	1161365	1103812	0.950	2.49	3 Aroclor 1242	BA
3.424	695951	640341	0.920	1.49		
3.516	186547	168452	0.903	0.40		
3.596	1152970	849048	0.736	2.48	3 Aroclor 1242	BA
3.777	30424	30300	0.996	0.06		
3.815	303385	292154	0.963	0.65		
3.839	216389	186031	0.860	0.46		
3.911	3496413	2002674	0.573	7.52	3 Aroclor 1242	BA
4.014	1489949	1193791	0.801	3.20	3 Aroclor 1242	BA

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.080	988199	904203	0.915	2.12	3 Aroclor 1242
4.145	286125	245275	0.857	0.61	
4.223	108728	93490	0.860	0.23	
4.300	801482	757260	0.945	1.72	
4.347	761642	719002	0.944	1.63	
4.378	318476	330979	1.039	0.68	
4.396	398379	360581	0.905	0.85	
4.458	27285	20823	0.763	0.05	
4.504	1052595	993287	0.944	2.26	
4.539	844948	617867	0.731	1.81	
4.634	1375483	1211654	0.881	2.95	
4.705	311237	277257	0.891	0.66	
4.764	25030	17913	0.716	0.05	
4.814	68299	57546	0.843	0.14	
4.854	75872	67046	0.884	0.16	
4.900	634970	604149	0.951	1.36	
4.935	1143450	1081017	0.945	2.46	
4.966	1488797	1072098	0.720	3.20	
5.047	168523	121653	0.722	0.36	
5.126	1209305	1063179	0.879	2.60	
5.187	249599	191648	0.768	0.53	
5.249	282528	246709	0.873	0.60	
5.300	213276	183740	0.862	0.45	
5.399	56863	41584	0.731	0.12	
5.452	194803	150099	0.771	0.41	
5.496	297085	249765	0.841	0.63	
5.535	186539	163393	0.876	0.40	
5.599	489517	373874	0.764	1.05	
5.694	142601	124749	0.875	0.30	
5.764	28437	18034	0.634	0.06	
5.803	27743	23535	0.848	0.05	
5.828	37628	34562	0.919	0.08	
5.880	316230	262280	0.829	0.68	
5.977	52718	30432	0.577	0.11	
6.114	316521	238032	0.752	0.68	
6.256	23025	18456	0.802	0.04	
6.389	73261	60882	0.831	0.15	
6.420	17291	11894	0.688	0.03	
6.460	12363	11049	0.894	0.02	
6.625	20140	18599	0.923	0.04	
6.808	12479	12789	1.025	0.02	
7.093	19034	18833	0.989	0.04	
7.200	10380	7611	0.733	0.02	
7.340	10670	9200	0.862	0.02	
7.526	10223	8298	0.812	0.02	
7.775	9770	8374	0.857	0.02	
7.816	42489	30016	0.706	0.09	
7.889	24896	18395	0.739	0.05	
8.363	95975	80059	0.834	0.20	
8.660	11244546	9666974	0.860	24.56	$ 12 Decachlorobiphenyl
9.004	14002	11762	0.840	0.03	
9.531	23367	18854	0.807	0.05	
	46471572	40685923		100.000	

Total unknown % area = 37

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718013.D
Lab Smp Id: 1653811 Client Smp ID: MBLCS
Inj Date : 07-MAR-2018 14:46
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1653811,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 13 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			
2.551	2.550	0.001	9432663	0.07965	40			
3 Aroclor 1242					CAS #: 53469-21-9			
3.397	3.398	-0.001	1161365	0.45800	230	0.00- 20.00	100.00(M)	BA
3.596	3.596	0.000	1152969	0.44899	220	0.00- 20.00	99.28	BA
3.910	3.910	0.000	3496413	0.45872	230	0.00- 20.00	301.06	BA
4.013	4.013	0.000	1489948	0.46209	230	0.00- 20.00	128.29	BA
4.080	4.080	0.000	988199	0.45539	230	0.00- 20.00	85.09	BA
Average of Peak Concentrations =					230			

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

8.659	8.660	-0.001	11244545	0.08723	44	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

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

Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b\030718013.D

Date : 07-MAR-2018 14:46

Client ID: MBLCS

Instrument: 40GCSK.i

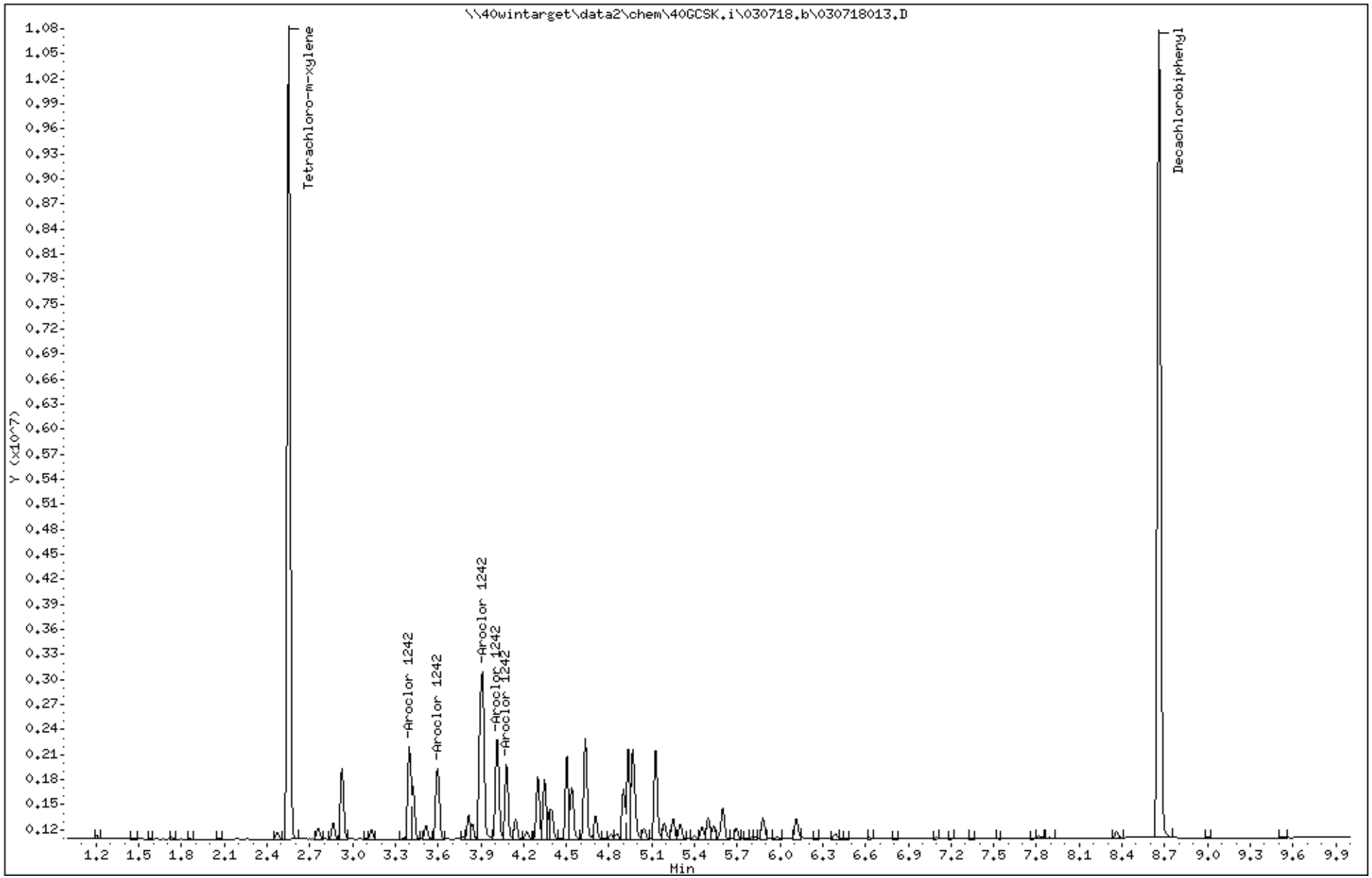
Sample Info: 1653811,

Volume Injected (uL): 1.0

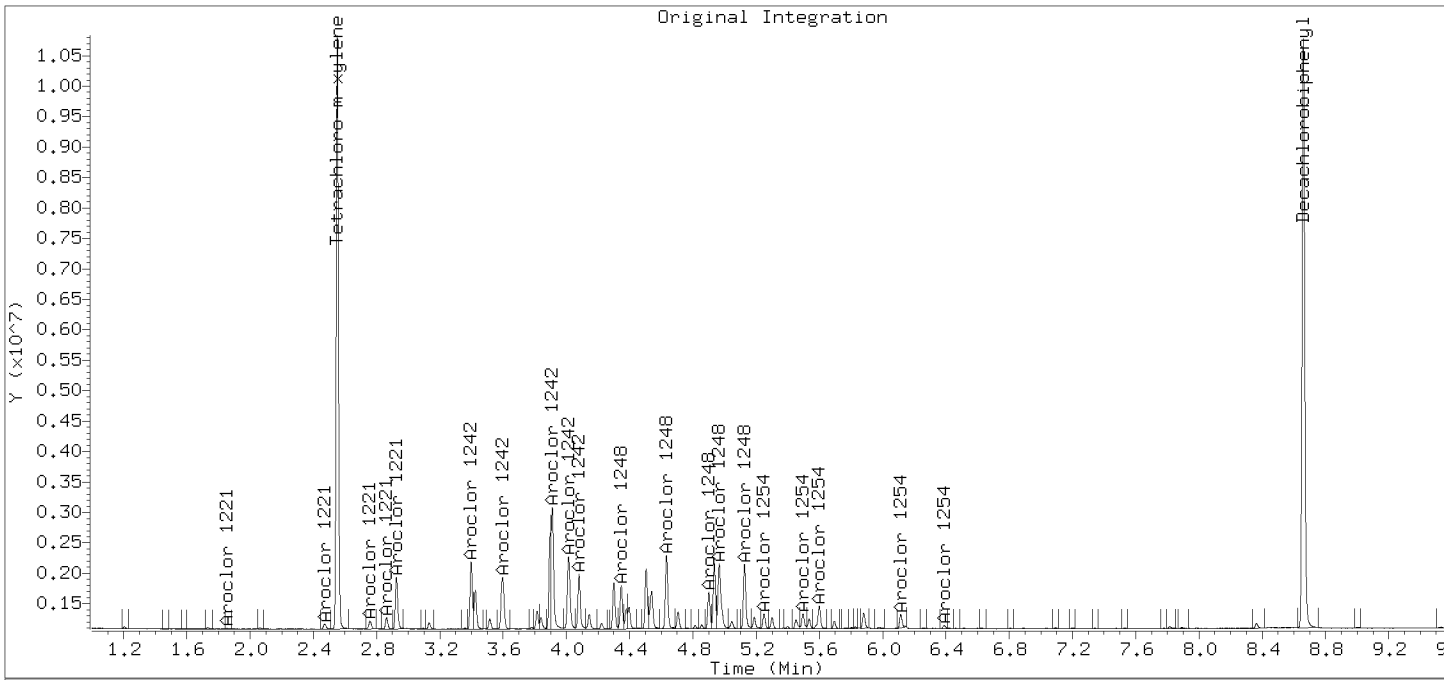
Operator: BLM

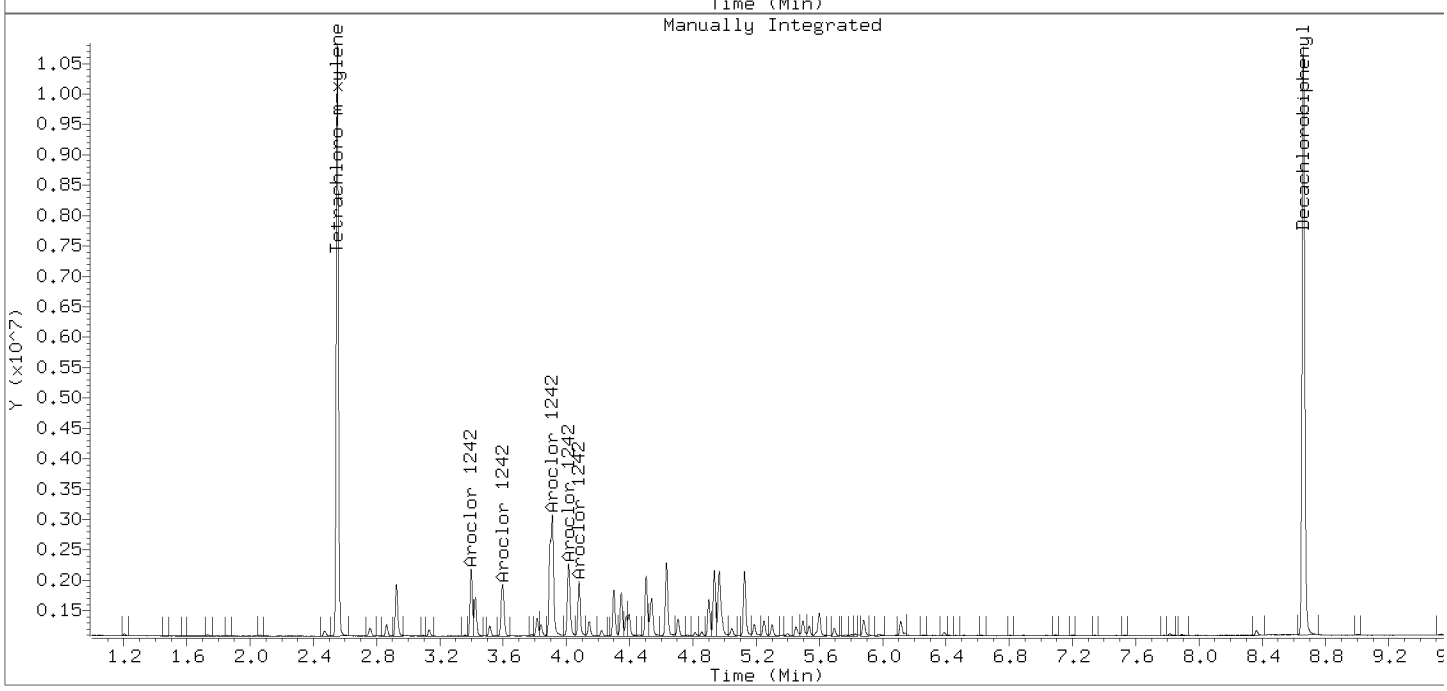
Column phase: ZB-1ms

Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b/030718013.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 14:46 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1653811





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	1153302	0	
Aroclor 1016	1153302	0	
Aroclor 1016	1153302	0	
Aroclor 1016	1153302	0	
Aroclor 1016	1153302	0	
Aroclor 1221	13548	0	
Aroclor 1221	13548	0	
Aroclor 1221	13548	0	
Aroclor 1221	13548	0	
Aroclor 1221	13548	0	
Aroclor 1232	889394	0	
Aroclor 1232	889394	0	
Aroclor 1232	889394	0	
Aroclor 1232	889394	0	

Aroclor 1232	889394	0	
Aroclor 1242	1153302	1161365	BA
Aroclor 1242	1153302	1161365	BA
Aroclor 1242	1153302	1161365	BA
Aroclor 1242	1153302	1161365	BA
Aroclor 1242	1153302	1161365	BA
Aroclor 1248	754759	0	
Aroclor 1248	754759	0	
Aroclor 1248	754759	0	
Aroclor 1248	754759	0	
Aroclor 1248	754759	0	
Aroclor 1254	264739	0	
Aroclor 1254	264739	0	
Aroclor 1254	264739	0	
Aroclor 1254	264739	0	
Aroclor 1254	264739	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Aroclor 1260	0	0	
Tetrachloro-m-xylene	9432663	9432663	
Decachlorobiphenyl	11244545	11244545	

==========

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: 04/19/2017 09:30
Matrix: Tissue SDG No.: 40148598
Date Extracted: 03/02/2018 06:50
Lab Sample ID: 1653812
Date Analyzed: 03/07/2018 15:02
Lab File ID: 030718.B\030718015.D
Initial wt/vol: 9.9892 g Final wt/vol: 5 mL Dilution: 2
Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	313	
12672-29-6	PCB-1248 (Aroclor 1248)	382	
11097-69-1	PCB-1254 (Aroclor 1254)	267	
11096-82-5	PCB-1260 (Aroclor 1260)	262	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718015.D
Lab Smp Id: 1653812 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 15:02
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1653812 x2,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 15 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	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	9.989	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.016	10204	9955	0.976	0.01		
1.180	16913	19384	1.146	0.01		
1.215	59829	40447	0.676	0.06		
1.731	16531	15294	0.925	0.01		
1.822	32320	37244	1.152	0.03		
2.005	12023	12218	1.016	0.01		
2.061	12998	11689	0.899	0.01		
2.182	17960	14662	0.816	0.01		
2.231	19974	22132	1.108	0.02		
2.272	12331	10143	0.823	0.01		
2.315	9829	8238	0.838	0.01		
2.355	20652	22593	1.094	0.02		
2.380	30559	30477	0.997	0.03		
2.424	36295	37947	1.046	0.03		
2.475	139164	115191	0.828	0.15		
2.551	5425635	5599532	1.032	5.90	$ 2 Tetrachloro-m-xylene	
2.758	96912	78300	0.808	0.10		
2.863	128368	117535	0.916	0.13		
2.925	574869	512789	0.892	0.62		
3.050	87860	50748	0.578	0.09		
3.095	91699	90902	0.991	0.09		
3.132	101313	87150	0.860	0.11		
3.357	12447	10772	0.865	0.01		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.398	777416	751661	0.967	0.84	3 Aroclor 1242
3.425	513051	473416	0.923	0.55	
3.515	163867	150477	0.918	0.17	
3.597	800618	587934	0.734	0.87	3 Aroclor 1242
3.726	19779	17208	0.870	0.02	
3.776	22327	20552	0.921	0.02	
3.814	255346	249675	0.978	0.27	
3.839	176109	154271	0.876	0.19	
3.910	2586550	1443155	0.558	2.81	3 Aroclor 1242
4.014	977387	771086	0.789	1.06	3 Aroclor 1242
4.080	658825	604927	0.918	0.71	3 Aroclor 1242
4.143	257149	196764	0.765	0.28	
4.222	83732	76067	0.908	0.09	
4.300	1185589	1114479	0.940	1.29	
4.347	1285302	1218441	0.948	1.39	6 Aroclor 1248
4.378	1157148	786652	0.680	1.26	
4.435	101760	72927	0.717	0.11	
4.504	1023609	943676	0.922	1.11	
4.539	770567	606905	0.788	0.83	
4.602	74638	71833	0.962	0.08	
4.633	1400224	1277552	0.912	1.52	6 Aroclor 1248
4.673	67009	59756	0.892	0.07	
4.706	290152	255573	0.881	0.31	
4.769	96615	80120	0.829	0.10	
4.825	203832	149949	0.736	0.22	
4.855	120135	112918	0.940	0.13	
4.900	734000	697304	0.950	0.79	6 Aroclor 1248
4.935	1166169	1095322	0.939	1.26	
4.967	2397589	1346772	0.562	2.61	6 Aroclor 1248
5.045	554292	429351	0.775	0.60	
5.092	109399	107051	0.979	0.11	
5.126	1213383	960877	0.792	1.32	6 Aroclor 1248
5.188	1283385	1044980	0.814	1.39	
5.250	2104938	1821978	0.866	2.29	7 Aroclor 1254
5.301	2576174	2074363	0.805	2.80	
5.343	178163	164623	0.924	0.19	
5.371	296828	263187	0.887	0.32	
5.403	1172219	1071364	0.914	1.27	
5.451	684736	622486	0.909	0.74	
5.495	890236	802560	0.902	0.96	7 Aroclor 1254
5.539	5455458	5344424	0.980	5.94	
5.571	152041	249656	1.642	0.16	
5.598	2346078	1880641	0.802	2.55	7 Aroclor 1254
5.664	312316	250319	0.801	0.34	
5.694	328650	246697	0.751	0.35	
5.763	860072	791817	0.921	0.93	
5.798	380488	314628	0.827	0.41	
5.830	790594	534770	0.676	0.86	
5.878	3892216	3207300	0.824	4.23	
5.912	901828	788490	0.874	0.98	
5.991	795225	557805	0.701	0.86	
6.018	216494	192054	0.887	0.23	
6.055	68855	72344	1.051	0.07	
6.081	1396669	1285142	0.920	1.52	
6.116	1272914	1139796	0.895	1.38	7 Aroclor 1254
6.143	5299801	4550365	0.859	5.77	
6.257	499289	373025	0.747	0.54	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.275	360774	329662	0.914	0.39	
6.333	678233	405979	0.599	0.73	
6.389	4949121	4124640	0.833	5.38	8 Aroclor 1260
6.422	455278	405958	0.892	0.49	
6.463	121789	93793	0.770	0.13	
6.521	608189	415713	0.684	0.66	
6.570	106223	92879	0.874	0.11	
6.599	2246968	2073965	0.923	2.44	
6.627	945873	911346	0.963	1.02	
6.649	857843	752342	0.877	0.93	
6.693	214361	181600	0.847	0.23	
6.722	35106	37597	1.071	0.03	
6.748	71986	65502	0.910	0.07	
6.807	381584	350556	0.919	0.41	
6.847	732517	657046	0.897	0.79	
6.890	676485	621906	0.919	0.73	
6.928	412135	361122	0.876	0.44	
6.976	45539	48304	1.061	0.04	
7.001	137397	139356	1.014	0.14	
7.033	887920	816128	0.919	0.96	
7.092	2209384	1976160	0.894	2.40	8 Aroclor 1260
7.125	259269	165693	0.639	0.28	
7.209	37491	31910	0.851	0.04	
7.340	889611	797871	0.897	0.96	8 Aroclor 1260
7.368	257918	209861	0.814	0.28	
7.422	27423	21030	0.767	0.02	
7.478	815416	705529	0.865	0.88	
7.531	818575	713334	0.871	0.89	8 Aroclor 1260
7.583	139410	95185	0.683	0.15	
7.617	42183	39466	0.936	0.04	
7.640	74130	45312	0.611	0.08	
7.702	32878	22352	0.680	0.03	
7.746	12323	15408	1.250	0.01	
7.780	188758	173860	0.921	0.20	
7.816	327462	277534	0.848	0.35	
7.850	67689	55379	0.818	0.07	
7.901	272674	158677	0.582	0.29	
7.948	36601	26154	0.715	0.03	
7.988	637721	574693	0.901	0.69	8 Aroclor 1260
8.046	111494	62896	0.564	0.12	
8.138	19903	15271	0.767	0.02	
8.196	13078	11490	0.879	0.01	
8.276	22915	12217	0.533	0.02	
8.363	640862	586358	0.915	0.69	
8.443	11204	11954	1.067	0.01	
8.465	36205	32636	0.901	0.03	
8.539	26768	17150	0.641	0.02	
8.659	6206234	5301719	0.854	7.45	$ 12 Decachlorobiphenyl
8.793	30858	26777	0.868	0.03	
8.816	62548	50816	0.812	0.06	
9.001	21694	13042	0.601	0.02	
9.081	12376	12572	1.016	0.01	
9.257	61214	46212	0.755	0.06	
9.377	17583	11443	0.651	0.01	
9.418	21616	14115	0.653	0.02	
9.531	28471	16136	0.567	0.03	
9.624	16337	15267	0.935	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.684	12677	9007	0.710	0.01	
9.788	22420	21680	0.967	0.02	
	91834611	78764367		100.000	

Total unknown % area = 55

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718015.D
Lab Smp Id: 1653812 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 15:02
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1653812 x2,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 15 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	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	9.989	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			
2.551	2.550	0.001	5425635	0.04582	46			
3 Aroclor 1242					CAS #: 53469-21-9			
3.398	3.398	0.000	777416	0.30658	310	0.00- 20.00	100.00(M)	BA
3.596	3.596	0.000	800617	0.31178	310	0.00- 20.00	102.98	BA
3.910	3.910	0.000	2586549	0.33935	340	0.00- 20.00	332.71	BA
4.014	4.013	0.001	977386	0.30312	300	0.00- 20.00	125.72	BA
4.079	4.080	-0.001	658824	0.30360	300	0.00- 20.00	84.75	BA
Average of Peak Concentrations =					310			

```
                                        CONCENTRATIONS
                                        ON-COL    FINAL
  RT   EXP RT   DLT RT         RESPONSE (ug/ml)  (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
4.347    4.347    0.000         1285301 0.51762      520   0.00-  20.00   100.00(M)      BA
4.632    4.632    0.000         1400223 0.31425      310   0.00-  20.00   108.94         BA
4.900    4.900    0.000          733999 0.34113      340   0.00-  20.00    57.11         BA
4.967    4.967    0.000         2397588 0.42511      420   0.00-  20.00   186.54         BA
5.126    5.127   -0.001         1213382 0.30783      310   0.00-  20.00    94.40         BA
               Average of Peak Concentrations =      380
-------------------------------------------------------------------------------
    7 Aroclor 1254                                CAS #: 11097-69-1
5.249    5.249    0.000         2104938 0.37024      370   0.00-  20.00   100.00(M)      BA
5.495    5.496   -0.001          890236 0.18929      190   0.00-  20.00    42.29         BA
5.598    5.598    0.000         2346077 0.27221      270   0.00-  20.00   111.46         BA
6.116    6.117   -0.001         1272913 0.23702      240   0.00-  20.00    60.47         BA
6.388    6.388    0.000               0    0.00     0.00   0.00-  20.00     0.00         BA
               Average of Peak Concentrations =      270
-------------------------------------------------------------------------------
    8 Aroclor 1260                                CAS #: 11096-82-5
6.389    6.388    0.001         4949121 0.50518      500   0.00-  20.00   100.00(M)      BA
7.092    7.092    0.000         2209384 0.19230      190   0.00-  20.00    44.64         BA
7.339    7.340   -0.001          889610 0.16055      160   0.00-  20.00    17.98         BA
7.530    7.531   -0.001          818575 0.24277      240   0.00-  20.00    16.54         BA
7.988    7.988    0.000          637720 0.20572      200   0.00-  20.00    12.89         BA
               Average of Peak Concentrations =      260
-------------------------------------------------------------------------------
$  12 Decachlorobiphenyl                          CAS #: 2051-24-3
8.659    8.660   -0.001         6206234 0.04815       48
-------------------------------------------------------------------------------
```

QC Flag Legend

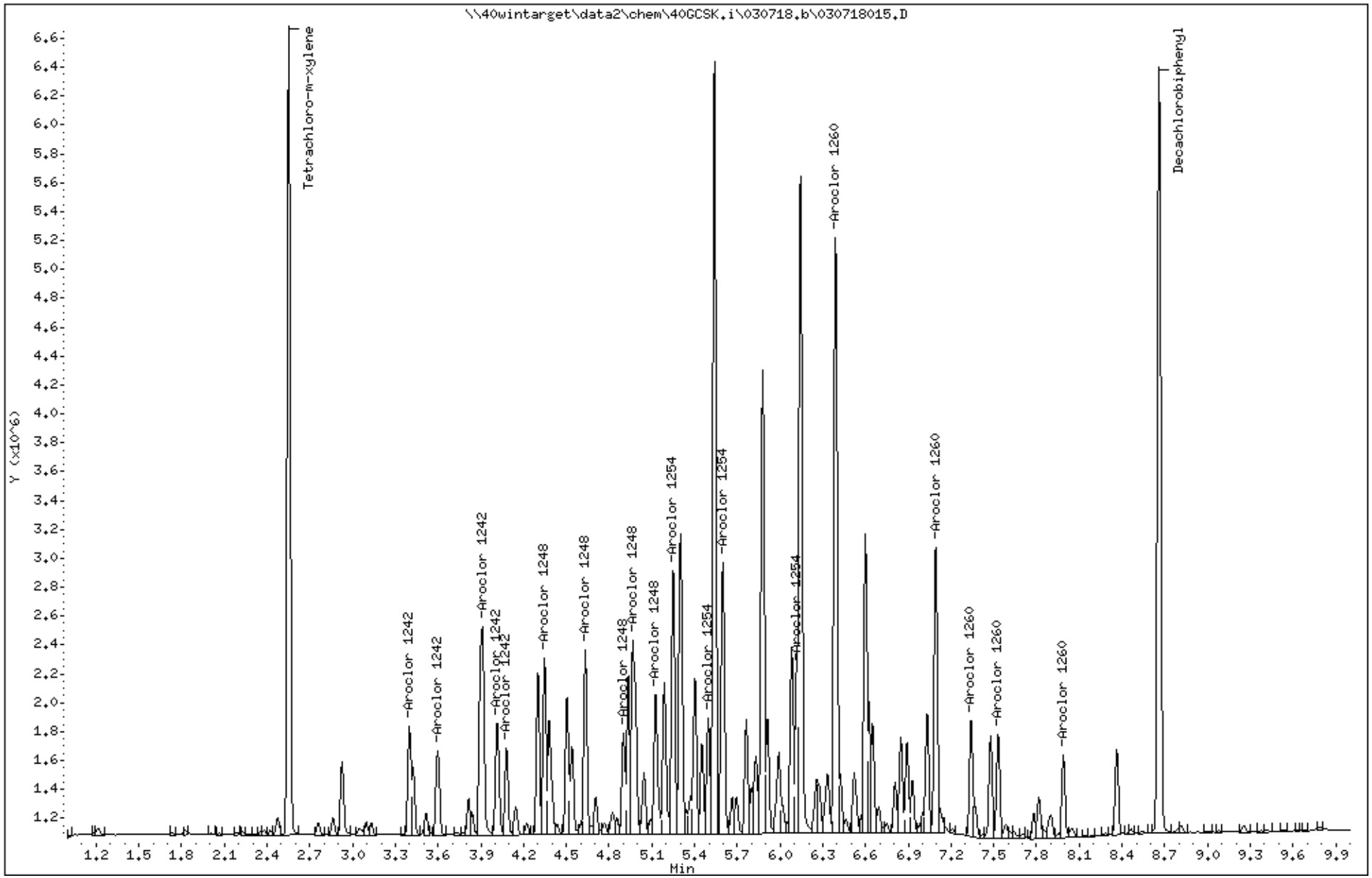
M - Compound response manually integrated.

Review Codes Legend

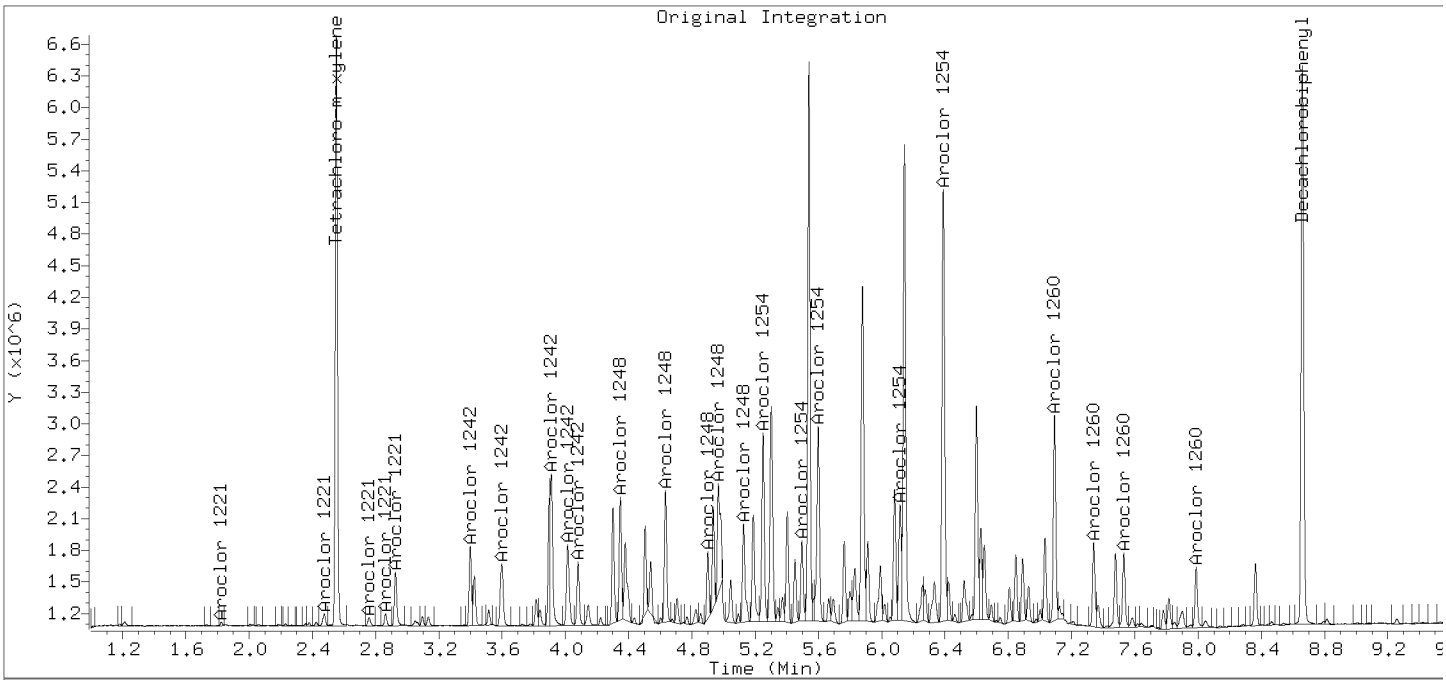
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

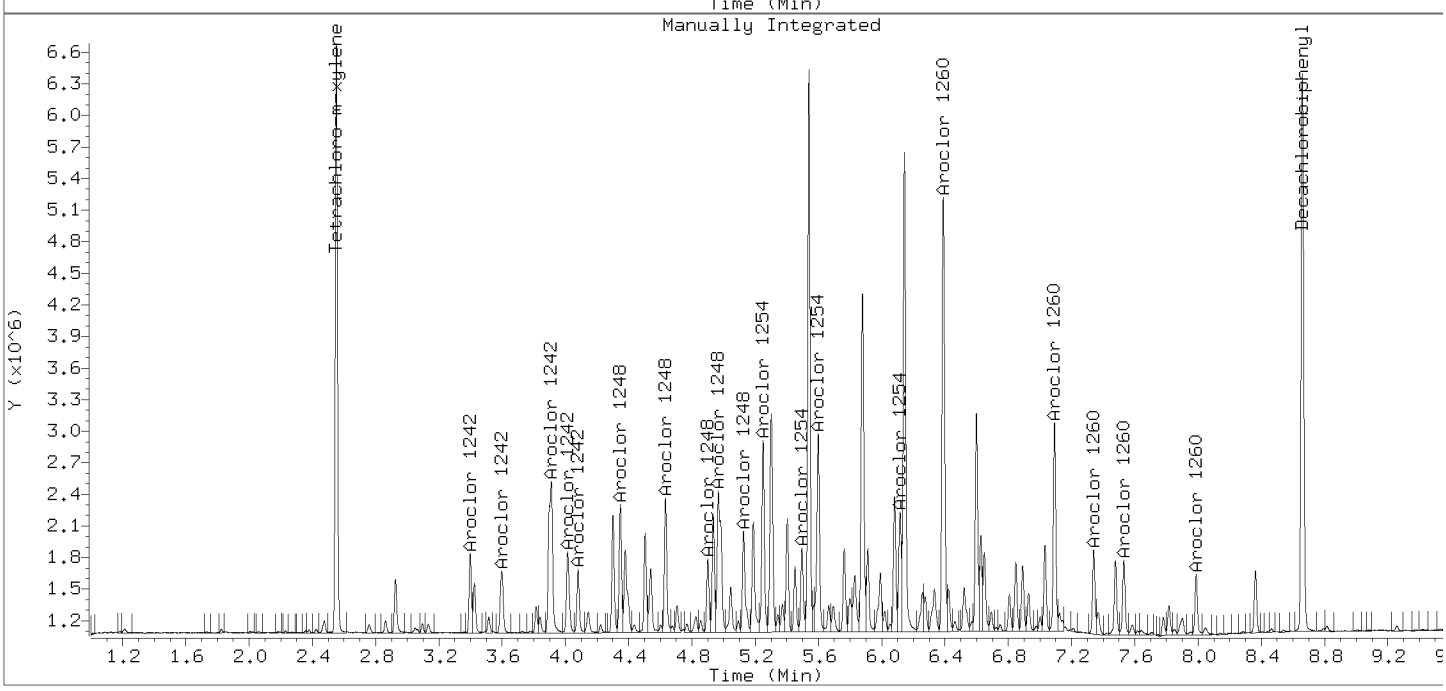
Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b\030718015.D
Date : 07-MAR-2018 15:02
Client ID: TZ1-170418-01-STB-0
Sample Info: 1653812 x2,
Volume Injected (uL): 1.0
Column phase: ZB-1ms

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



Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b/030718015.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 15:02 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1653812





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	766562	0	
Aroclor 1016	766562	0	
Aroclor 1016	766562	0	
Aroclor 1016	766562	0	
Aroclor 1016	766562	0	
Aroclor 1221	32320	0	
Aroclor 1221	32320	0	
Aroclor 1221	32320	0	
Aroclor 1221	32320	0	
Aroclor 1221	32320	0	
Aroclor 1232	555013	0	
Aroclor 1232	555013	0	
Aroclor 1232	555013	0	
Aroclor 1232	555013	0	

Aroclor 1232	555013	0	
Aroclor 1242	766562	777416	BA
Aroclor 1242	766562	777416	BA
Aroclor 1242	766562	777416	BA
Aroclor 1242	766562	777416	BA
Aroclor 1242	766562	777416	BA
Aroclor 1248	1167687	1285301	BA
Aroclor 1248	1167687	1285301	BA
Aroclor 1248	1167687	1285301	BA
Aroclor 1248	1167687	1285301	BA
Aroclor 1248	1167687	1285301	BA
Aroclor 1254	1991797	2104938	BA
Aroclor 1254	1991797	2104938	BA
Aroclor 1254	1991797	2104938	BA
Aroclor 1254	1991797	2104938	BA
Aroclor 1254	1991797	2104938	BA
Aroclor 1260	4856745	4949121	BA
Aroclor 1260	4856745	4949121	BA
Aroclor 1260	4856745	4949121	BA
Aroclor 1260	4856745	4949121	BA
Aroclor 1260	4856745	4949121	BA
Tetrachloro-m-xylene	5425635	5425635	
Decachlorobiphenyl	6206234	6206234	

==========

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: 04/19/2017 09:30

Matrix: Tissue SDG No.: 40148598

Date Extracted: 03/02/2018 06:50

Lab Sample ID: 1653813

Date Analyzed: 03/07/2018 16:39

Lab File ID: 030718.B\030718027.D

Initial wt/vol: 9.9969 g Final wt/vol: 5 mL Dilution: 2

Instrument: 40GCSK Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
12674-11-2	PCB-1016 (Aroclor 1016)	<22.8	U
11104-28-2	PCB-1221 (Aroclor 1221)	<22.8	U
11141-16-5	PCB-1232 (Aroclor 1232)	<22.8	U
53469-21-9	PCB-1242 (Aroclor 1242)	<22.8	U
12672-29-6	PCB-1248 (Aroclor 1248)	176	
11097-69-1	PCB-1254 (Aroclor 1254)	195	
11096-82-5	PCB-1260 (Aroclor 1260)	211	

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718027.D
Lab Smp Id: 1653813 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 16:39
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1653813 x2,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: AREA%
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 27 QC Sample: FIELDDUP
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	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	9.997	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS	REVIEW CODE
1.018	10454	9338	0.893	0.01		
1.178	16150	17423	1.079	0.02		
1.213	96330	69337	0.720	0.14		
1.824	12998	16939	1.303	0.02		
2.000	9769	11914	1.220	0.01		
2.060	29365	25703	0.875	0.04		
2.118	10401	7095	0.682	0.01		
2.232	17068	17438	1.022	0.02		
2.270	9777	9132	0.934	0.01		
2.353	16459	15935	0.968	0.02		
2.378	19760	20780	1.052	0.03		
2.425	29405	28691	0.976	0.04		
2.475	58120	58901	1.013	0.09		
2.551	4833921	5020258	1.039	7.51	$ 2 Tetrachloro-m-xylene	
2.862	14307	12792	0.894	0.02		
2.928	32624	19360	0.593	0.05		
3.050	15125	21338	1.411	0.02		
3.096	72399	79645	1.100	0.11		
3.132	24072	19119	0.794	0.03		
3.397	85152	87697	1.030	0.13		
3.423	98411	91793	0.933	0.15		
3.514	45478	41390	0.910	0.07		
3.600	109389	93197	0.852	0.17		

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.814	83288	77860	0.935	0.12	
3.840	52446	41305	0.788	0.08	
3.908	508352	283362	0.557	0.79	
4.022	114801	85196	0.742	0.17	
4.077	101044	81417	0.806	0.15	
4.138	108225	67825	0.627	0.16	
4.222	27345	21652	0.792	0.04	
4.299	640402	598072	0.934	0.99	
4.346	737201	706266	0.958	1.14	6 Aroclor 1248
4.378	640802	511861	0.799	0.99	
4.434	73754	60845	0.825	0.11	
4.504	355154	334576	0.942	0.55	
4.539	242271	223296	0.922	0.37	
4.575	13772	14283	1.037	0.02	
4.601	12857	13091	1.018	0.02	
4.632	542283	497632	0.918	0.84	6 Aroclor 1248
4.673	47707	40090	0.840	0.07	
4.704	96976	82233	0.848	0.15	
4.744	20662	22195	1.074	0.03	
4.767	69541	59480	0.855	0.10	
4.824	135370	111212	0.822	0.21	
4.854	68003	63760	0.938	0.10	
4.900	320498	305462	0.953	0.49	6 Aroclor 1248
4.934	448789	441672	0.984	0.69	
4.982	1350829	711427	0.527	2.10	6 Aroclor 1248
5.045	362508	292129	0.806	0.56	
5.093	86352	81373	0.942	0.13	
5.126	295893	280307	0.947	0.46	6 Aroclor 1248
5.145	142679	143363	1.005	0.22	
5.188	927758	771573	0.832	1.44	
5.248	1617786	1397372	0.864	2.51	7 Aroclor 1254
5.301	2015678	1624611	0.806	3.13	
5.342	145868	136634	0.937	0.22	
5.370	228543	201350	0.881	0.35	
5.402	912160	850115	0.932	1.41	
5.451	498525	452923	0.909	0.77	
5.495	591531	553831	0.936	0.92	7 Aroclor 1254
5.539	4237622	4101969	0.968	6.59	
5.570	141894	187283	1.320	0.22	
5.598	1703407	1412865	0.829	2.64	7 Aroclor 1254
5.664	258715	201166	0.778	0.40	
5.691	215693	151455	0.702	0.33	
5.763	695285	652441	0.938	1.08	
5.799	298489	248611	0.833	0.46	
5.829	615342	422409	0.686	0.95	
5.877	3078138	2566596	0.834	4.78	
5.910	687337	628475	0.914	1.06	
5.991	619541	440879	0.712	0.96	
6.020	167378	153209	0.915	0.26	
6.053	51879	57074	1.100	0.08	
6.081	1134763	1032543	0.910	1.76	
6.115	927940	848530	0.914	1.44	7 Aroclor 1254
6.143	4279838	3692928	0.863	6.65	
6.257	396189	288586	0.728	0.61	
6.273	280925	270089	0.961	0.43	
6.333	537779	312722	0.582	0.83	
6.389	3995462	3401389	0.851	6.21	8 Aroclor 1260

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
6.422	351552	321797	0.915	0.54	
6.462	91647	73374	0.801	0.14	
6.520	507741	334193	0.658	0.78	
6.572	79784	75965	0.952	0.12	
6.598	1834880	1635826	0.892	2.85	
6.626	777666	737856	0.949	1.20	
6.648	665735	609282	0.915	1.03	
6.691	170786	148337	0.869	0.26	
6.724	32329	31978	0.989	0.05	
6.749	57890	52818	0.912	0.09	
6.807	304888	278804	0.914	0.47	
6.848	592205	519738	0.878	0.92	
6.890	543884	502538	0.924	0.84	
6.929	326468	285928	0.876	0.50	
6.975	44613	37676	0.845	0.06	
7.003	112365	112002	0.997	0.17	
7.032	723559	690855	0.955	1.12	
7.092	1794256	1596791	0.890	2.79	8 Aroclor 1260
7.123	139981	135657	0.969	0.21	
7.142	95961	82170	0.856	0.14	
7.190	13347	19547	1.465	0.02	
7.209	39199	29519	0.753	0.06	
7.340	718736	666739	0.928	1.11	8 Aroclor 1260
7.368	214601	172572	0.804	0.33	
7.422	31480	19413	0.617	0.04	
7.477	644470	589627	0.915	1.00	
7.531	666823	571514	0.857	1.03	8 Aroclor 1260
7.582	118811	79086	0.666	0.18	
7.619	35430	31288	0.883	0.05	
7.641	61779	37292	0.604	0.09	
7.702	36869	26904	0.730	0.05	
7.749	16585	19268	1.162	0.02	
7.780	155052	143287	0.924	0.24	
7.816	269290	227934	0.846	0.41	
7.851	62796	48189	0.767	0.09	
7.901	215634	125714	0.583	0.33	
7.951	25828	20686	0.801	0.04	
7.988	506508	448426	0.885	0.78	8 Aroclor 1260
8.050	73998	47094	0.636	0.11	
8.089	5968	6630	1.111	0.00	
8.137	21533	14446	0.671	0.03	
8.199	9618	9239	0.961	0.01	
8.286	17146	16089	0.938	0.02	
8.362	531892	499195	0.939	0.82	
8.439	20941	18238	0.871	0.03	
8.462	38175	30672	0.803	0.05	
8.659	5667972	4893605	0.863	9.48	$ 12 Decachlorobiphenyl
8.791	23284	22572	0.969	0.03	
8.816	41719	40757	0.977	0.06	
9.005	22036	17140	0.778	0.03	
9.077	13624	10205	0.749	0.02	
9.257	43793	38515	0.879	0.06	
9.414	11118	10637	0.957	0.01	
9.630	12301	9089	0.739	0.01	
9.787	18275	17322	0.948	0.02	
	64283024	56350120		100.000	

Total unknown % area = 58

Pace Analytical Services, Inc.

SW846-8082

Data file : \\40wintarget\data2\chem\40GCSK.i\030718.b\030718027.D
Lab Smp Id: 1653813 Client Smp ID: TZ1-170418-01-STB-0
Inj Date : 07-MAR-2018 16:39
Operator : BLM Inst ID: 40GCSK.i
Smp Info : 1653813 x2,
Misc Info : 17493,BIOTA
Comment :
Method : \\40wintarget\data2\chem\40GCSK.i\030718.b\pcba030618.m
Meth Date : 27-Mar-2018 09:55 40GCSK.i Quant Type: ESTD
Cal Date : 06-MAR-2018 19:23 Cal File: 030618063.D
Als bottle: 27 QC Sample: FIELDDUP
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: BIOTA.sub
Target Version: RC10A Sample Matrix: Biota

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

Name	Value	Description
DF	2.000	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	9.997	Weight of sample extracted
M	0.00000	%Moisture
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
1 Aroclor 1221					CAS #: 11104-28-2			
Operator disabled compound identification.								
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8			
2.551	2.550	0.001	4833920	0.04082	41			
3 Aroclor 1242					CAS #: 53469-21-9			
Operator disabled compound identification.								
4 Aroclor 1232					CAS #: 1114-16-5			
Operator disabled compound identification.								

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/Kg)	TARGET RANGE	RATIO	REVIEW CODE
5 Aroclor 1016					CAS #: 12674-11-2			
Operator disabled compound identification.								
6 Aroclor 1248					CAS #: 12672-29-6			
4.345	4.347	-0.002	737201	0.29689	300	0.00- 20.00	100.00(M)	BA
4.632	4.632	0.000	542283	0.12170	120	0.00- 20.00	73.56	BA
4.899	4.900	-0.001	320498	0.14895	150	0.00- 20.00	43.47	BA
4.981	4.967	0.014	1350828	0.23951	240	0.00- 20.00	183.24	BA
5.126	5.127	-0.001	295892	0.07507	75	0.00- 20.00	40.14	BA
Average of Peak Concentrations =					180			
7 Aroclor 1254					CAS #: 11097-69-1			
5.248	5.249	-0.001	1617785	0.28455	280	0.00- 20.00	100.00(M)	BA
5.494	5.496	-0.002	591530	0.12578	120	0.00- 20.00	36.56	BA
5.597	5.598	-0.001	1703407	0.19764	200	0.00- 20.00	105.29	BA
6.115	6.117	-0.002	927939	0.17278	170	0.00- 20.00	57.36	BA
6.388	6.388	0.000	0	0.00	0.00	0.00- 20.00	0.00	BA
Average of Peak Concentrations =					200			
8 Aroclor 1260					CAS #: 11096-82-5			
6.388	6.388	0.000	3995461	0.40784	410	0.00- 20.00	100.00(M)	BA
7.092	7.092	0.000	1794255	0.15617	160	0.00- 20.00	44.91	BA
7.339	7.340	-0.001	718736	0.12971	130	0.00- 20.00	17.99	BA
7.531	7.531	0.000	666823	0.19777	200	0.00- 20.00	16.69	BA
7.988	7.988	0.000	506508	0.16339	160	0.00- 20.00	12.68	BA
Average of Peak Concentrations =					210			
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
8.659	8.660	-0.001	5667972	0.04397	44			

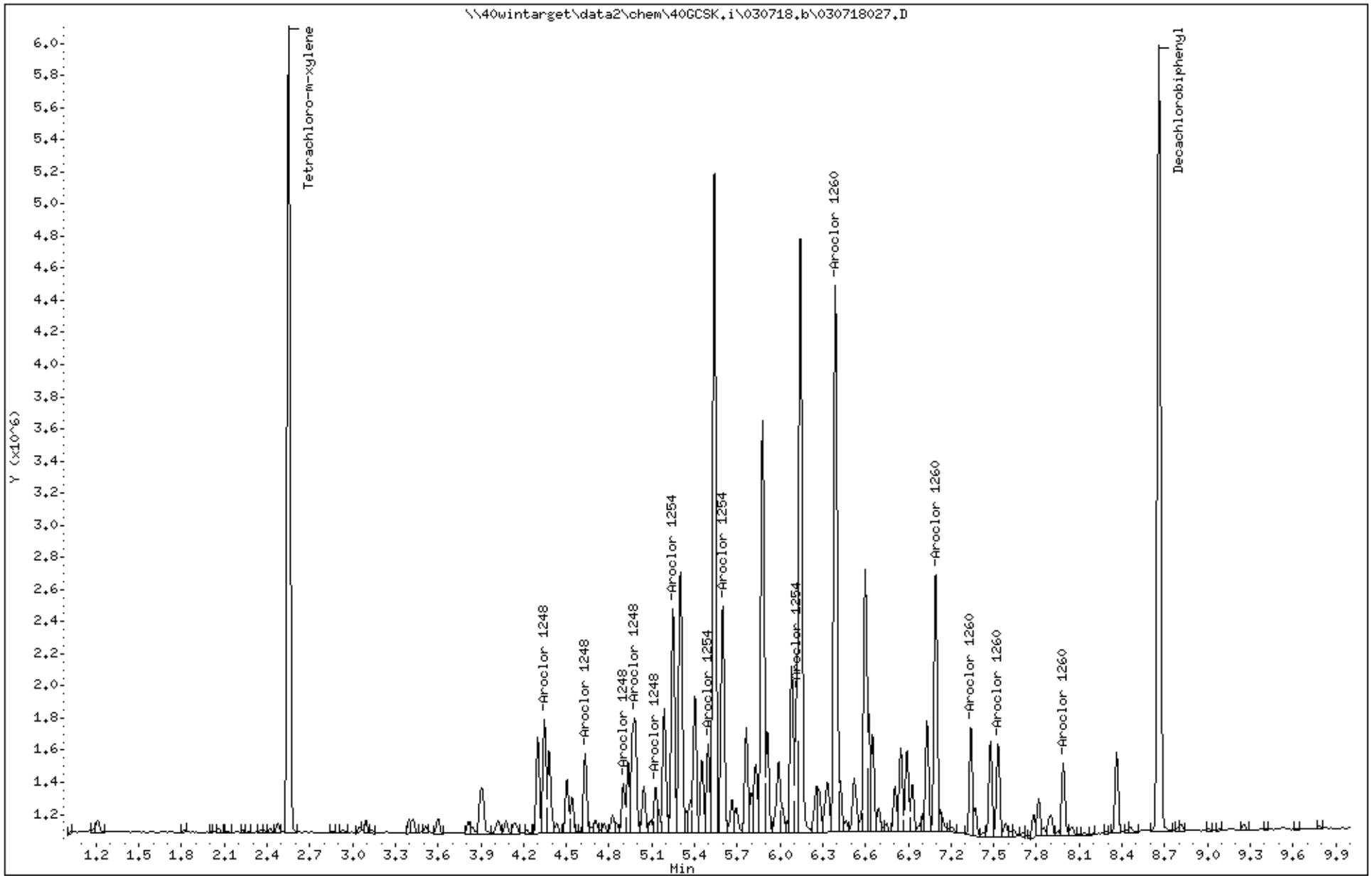
QC Flag Legend

M - Compound response manually integrated.

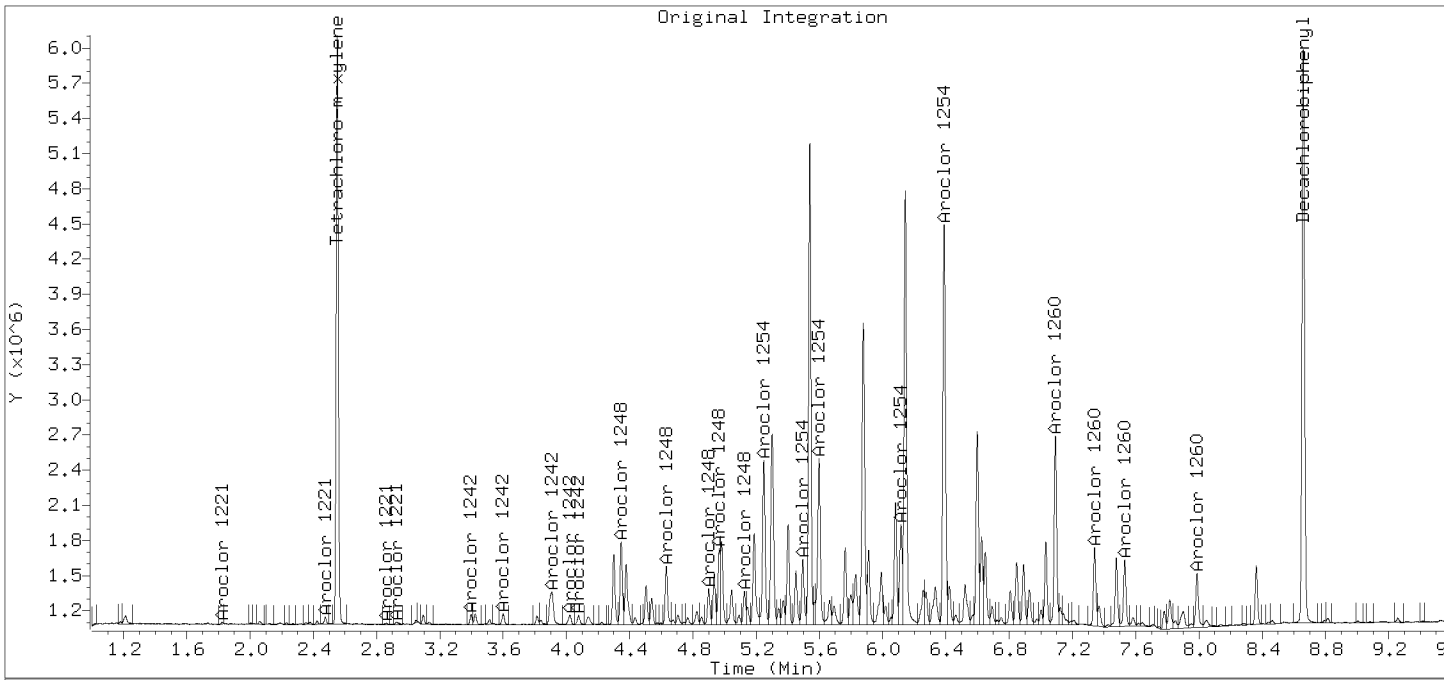
Review Codes Legend

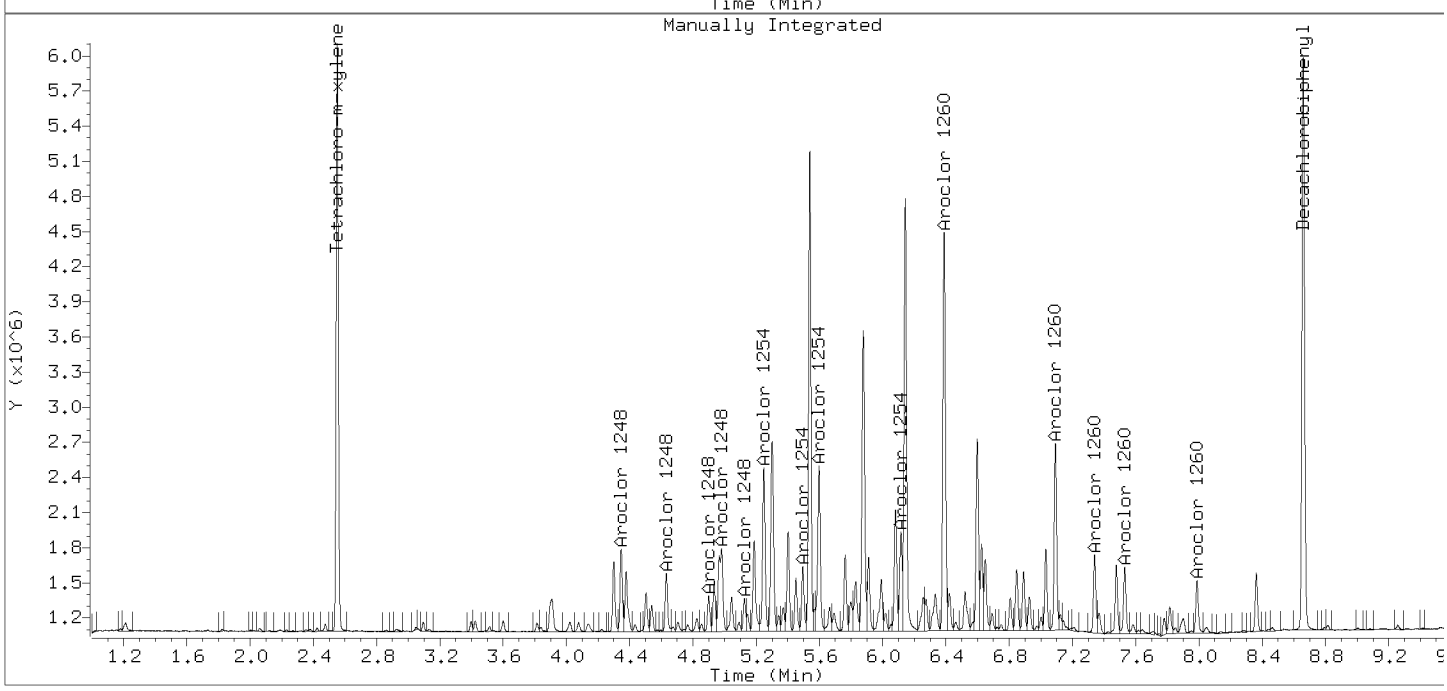
:
BA: Indicates that the baseline had to be adjusted correctly by the analyst.

Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b\030718027.D
Date : 07-MAR-2018 16:39
Client ID: TZ1-170418-01-STB-0
Instrument: 40GCSK.i
Sample Info: 1653813 x2,
Volume Injected (uL): 1.0
Operator: BLM
Column phase: ZB-1ms
Column diameter: 0.18



Data File: \\40wintarget\data2\chem\40GCSK.i\030718.b/030718027.D (ManInt: BIOTA.sub Orig: BIOTA.sub)
Injection Date: 07-MAR-2018 16:39 Operator: BLM
Instrument: 40GCSK.i
Lab Sample ID: 1653813





Manually Integrated Compounds

Compound	Area (before)	Area (after)	Code
Aroclor 1016	85151	0	
Aroclor 1016	85151	0	
Aroclor 1016	85151	0	
Aroclor 1016	85151	0	
Aroclor 1016	85151	0	
Aroclor 1221	12998	0	
Aroclor 1221	12998	0	
Aroclor 1221	12998	0	
Aroclor 1221	12998	0	
Aroclor 1221	12998	0	
Aroclor 1232	32623	0	
Aroclor 1232	32623	0	
Aroclor 1232	32623	0	
Aroclor 1232	32623	0	

Aroclor 1232	32623	0	
Aroclor 1242	85151	0	
Aroclor 1242	85151	0	
Aroclor 1242	85151	0	
Aroclor 1242	85151	0	
Aroclor 1242	85151	0	
Aroclor 1248	734312	737201	BA
Aroclor 1248	734312	737201	BA
Aroclor 1248	734312	737201	BA
Aroclor 1248	734312	737201	BA
Aroclor 1248	734312	737201	BA
Aroclor 1254	1626153	1617785	BA
Aroclor 1254	1626153	1617785	BA
Aroclor 1254	1626153	1617785	BA
Aroclor 1254	1626153	1617785	BA
Aroclor 1254	1626153	1617785	BA
Aroclor 1260	4015293	3995461	BA
Aroclor 1260	4015293	3995461	BA
Aroclor 1260	4015293	3995461	BA
Aroclor 1260	4015293	3995461	BA
Aroclor 1260	4015293	3995461	BA
Tetrachloro-m-xylene	4833920	4833920	
Decachlorobiphenyl	5667972	5667972	

==========

Prep Log Report

Batch Information: OEXT 282250 PCB-B

Template Version: F-GB-O-113-Rev.03 (19Feb2018)

Prep Method	EPA 3541	Analysis Method	EPA 8082A Mod	Extracted By	AMC	Extracted Date/Time	03/02/2018 06:50:10:904
Spiked By	AMC	Spiked By Date/Time	03/02/2018 06:50:12:008	Witnessed By	BLM	Witnessed By Date/Time	03/02/2018 06:50:12:008
Instrument	40BALL	Conc. Temp #1	40	Conc. Temp #2	40	Methylene Chloride	None Added
Hexane	188917	Sodium Sulfate	186889	Florisil	186910	3620B Date/Initials	3/5/18 AMC
H2SO4 - Conc.	179361	Acid 3665A Date/Initials	3/5/18 AMC	Tuna	None Added	Reviewed By	CAH
Reviewed By Date	03/28/2018 16:09	Batch Notes	Hex/Ace 50:50-190415				

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	**1653810**	10	5	3		189973 (.25)	
8082A TNYP	LCS	**1653811**	10	5	3		189973 (.25)	182336 (.125)
8082A TNYP	PS	**40148598001**	10.0375	5	3		189973 (.25)	
8082A TNYP	PS	**40148598002**	9.9964	5	3		189973 (.25)	
8082A TNYP	PS	**40148598003**	10.0303	5	3		189973 (.25)	
8082A TNYP	PS	**40148598004**	10.0362	5	3		189973 (.25)	
8082A TNYP	RQS	**40148598005**	10.0161	5	3		189973 (.25)	
8082A TNYP	MS	**1653812**	9.9892	5	3		189973 (.25)	182336 (.125)
8082A TNYP	DUP	**1653813**	9.9969	5	3		189973 (.25)	
8082A TNYP	PS	**40148671001**	10.0022	5	3		189973 (.25)	
8082A TNYP	PS	**40148671002**	9.9993	5	3		189973 (.25)	
8082A TNYP	PS	**40148671003**	10.0038	5	3		189973 (.25)	
8082A TNYP	RQS	**40148671004**	9.9888	5	3		189973 (.25)	
8082A TNYP	DUP	**1653814**	9.9904	5	3		189973 (.25)	
8082A TNYP	PS	**40148671005**	10.0329	5	3		189973 (.25)	
8082A TNYP	PS	**40148671006**	9.995	5	3		189973 (.25)	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Volume Delivered (mL)	Sample Notes	8081-SS (mL)	AR1242-SPK (mL)
8082A TNYP	PS	**40148722001**	9.9867	5	3		189973 (.25)	
8082A TNYP	PS	**40148722002**	9.9641	5	3		189973 (.25)	
8082A TNYP	PS	**40148722003**	9.9603	5	3		189973 (.25)	
8082A TNYP	PS	**40148722004**	9.9858	5	3		189973 (.25)	
8082A TNYP	PS	**40148722005**	9.96	5	3		189973 (.25)	
8082A TNYP	PS	**40148722006**	10.0363	5	3		189973 (.25)	
8082A TNYP	PS	**40148722007**	10.0057	5	3		189973 (.25)	
8082A TNYP	PS	**40148722008**	9.9787	5	3		189973 (.25)	

Standard Notes:

182336: Ar1242 Spike @20ug/mL 40GCS9. **189973: Pest/PCB Surrogate Spike 40GCSC.**

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        Operator:
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Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

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    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
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   Line                    Sample Name/Misc Info
 1) RearSamp        1  HEXANE
     Datafile          --------
     Method            SCREEN2014
 2) Sample          2  HEXANE
     Datafile          --------
     Method            SCREEN2014
 3) RearSamp        3  1654574MB
     Datafile          --------
     Method            SCREEN2014
 4) Sample          4  1654575LCS
     Datafile          --------
     Method            SCREEN2014
 5) RearSamp        5  1654576MS
     Datafile          --------
     Method            SCREEN2014
 6) Sample          6  1654577MSD
     Datafile          --------
     Method            SCREEN2014
 7) RearSamp        7  40165301-001
     Datafile          --------
     Method            SCREEN2014
 8) Sample          8  40165355-001
     Datafile          --------
     Method            SCREEN2014
 9) RearSamp        9  40165195-001
     Datafile          --------
     Method            SCREEN2014
10) Sample         10  40165196-001
     Datafile          --------
     Method            SCREEN2014
11) RearSamp       11  40165196-002
     Datafile          --------
     Method            SCREEN2014
12) Sample         12  40165196-003P
     Datafile          --------
     Method            SCREEN2014
13) RearSamp       13  40165196-004
     Datafile          --------
     Method            SCREEN2014
14) Sample         14  40165196-005
     Datafile          --------
     Method            SCREEN2014
15) RearSamp       15  1653810MB
     Datafile          --------
     Method            SCREEN2014
16) Sample         16  1653811LCS
     Datafile          --------
     Method            SCREEN2014
17) RearSamp       17  1653812MS x2
     Datafile          --------
     Method            SCREEN2014
18) Sample         18  40148598-001 —
     Datafile          --------
     Method            SCREEN2014
19) RearSamp       19  40148598-002 —
     Datafile          --------

   Last Modified: Mon Mar 05 17:22:19 2018                Page:  1
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GE BIOTA

BLK 3/15/18

Continued on Page 4

Read and Understood By

Signed 3/15/18 Date Signed 3/15/18 Date

PROJECT 40GCSI Screener 03/05/18

Notebook No. 4418

Continued from Page 3

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      Method                SCREEN2014
20) Sample          20  40148598-003 —
      Datafile              --------
      Method                SCREEN2014
21) RearSamp        21  40148598-004 —
      Datafile              --------
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22) Sample          22  40148598-005P/RQS ×2
      Datafile              --------
      Method                SCREEN2014
23) RearSamp        23  1653813DUP ×2
      Datafile              --------
      Method                SCREEN2014
24) Sample          24  40148671-001 —
      Datafile              --------
      Method                SCREEN2014
25) RearSamp        25  40148671-002 —
      Datafile              --------
      Method                SCREEN2014
26) Sample          26  40148671-003 —
      Datafile              --------
      Method                SCREEN2014
27) RearSamp        27  40148671-004RQS —
      Datafile              --------
      Method                SCREEN2014
28) Sample          28  1653814DUP —
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29) RearSamp        29  40148671-005 —
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30) Sample          30  40148671-006 —
      Datafile              --------
      Method                SCREEN2014
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      Datafile              --------
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32) Sample          32  40148722-002 —
      Datafile              --------
      Method                SCREEN2014
33) RearSamp        33  40148722-003 ×2
      Datafile              --------
      Method                SCREEN2014
34) Sample          34  40148722-004 —
      Datafile              --------
      Method                SCREEN2014
35) RearSamp        35  40148722-005 —
      Datafile              --------
      Method                SCREEN2014
36) Sample          36  40148722-006 —
      Datafile              --------
      Method                SCREEN2014
37) RearSamp        37  40148722-007 —
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38) Sample          38  40148722-008 —
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      Method                SCREEN2014
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      Datafile              --------
      Method                SCREEN2014
41) RearSamp        41  1655026MS
      Datafile              --------
      Method                SCREEN2014
42) Sample          42  1655027MSD
      Datafile              --------
      Method                SCREEN2014
43) RearSamp        43  40164936-001
      Datafile              --------

   Last Modified: Mon Mar 05 17:22:19 2018                Page:  2
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BLM 3/15/18

Continued on Page —

Read and Understood By

Signed	Date	Signed	Date
[signature]	3/15/18	[signature]	3/15/18

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Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

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    ( ) Reprocessing Only        ( ) On Mismatch, Don't Inject
                                 ( ) Barcode Disabled
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     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          030618002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          030618003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          030618004
     Method            GEBIOTA2017
 6) RearSamp        5  1232-CAL3S,185539:1,17499,NSA
     Datafile          030618005
     Method            GEBIOTA2017
 7) Sample          4  HEXANE
     Datafile          030618006
     Method            GEBIOTA2017
 8) RearSamp        6  1221-CAL1F,188138:1,17499,NSA
     Datafile          030618007
     Method            GEBIOTA2017
 9) Sample          5  1232-CAL3S,185539:1,17498,NSA
     Datafile          030618008
     Method            GEBIOTA2017
10) RearSamp        7  1221-CAL2F,188139:1,17499,NSA
     Datafile          030618009
     Method            GEBIOTA2017
11) Sample          6  1221-CAL1F,188138:1,17498,NSA
     Datafile          030618010
     Method            GEBIOTA2017
12) RearSamp        8  1221-CAL3F,185538:1,17499,NSA
     Datafile          030618011
     Method            GEBIOTA2017
13) Sample          7  1221-CAL2F,188139:1,17498,NSA
     Datafile          030618012
     Method            GEBIOTA2017
14) RearSamp        9  1221-CAL4F,188140:1,17499,NSA
     Datafile          030618013
     Method            GEBIOTA2017
15) Sample          8  1221-CAL3F,185538:1,17498,NSA
     Datafile          030618014
     Method            GEBIOTA2017
16) RearSamp       10  1221-CAL5F,188141:1,17499,NSA
     Datafile          030618015
     Method            GEBIOTA2017
17) Sample          9  1221-CAL4F,188140:1,17498,NSA
     Datafile          030618016
     Method            GEBIOTA2017
18) RearSamp       11  HEXANE
     Datafile          030618017
     Method            GEBIOTA2017
19) Sample         10  1221-CAL5F,188141:1,17498,NSA
     Datafile          030618018
     Method            GEBIOTA2017
20) RearSamp       12  1242-CAL1B,188132:1,17499,NSA

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Read and Understood By

Bryan Mayl — Signed — 3/7/18 — Date

Signed — 3/7/18 — Date

```
      Datafile          030618019
      Method            GEBIOTA2017
21) Sample        11    HEXANE
      Datafile          030618020
      Method            GEBIOTA2017
22) RearSamp      13    1242-CAL2B,185543:1,17499,NSA
      Datafile          030618021
      Method            GEBIOTA2017
23) Sample        12    1242-CAL1B,188132:1,17498,NSA
      Datafile          030618022
      Method            GEBIOTA2017
24) RearSamp      14    1242-CAL3B,185544:1,17499,NSA
      Datafile          030618023
      Method            GEBIOTA2017
25) Sample        13    1242-CAL2B,185543:1,17498,NSA
      Datafile          030618024
      Method            GEBIOTA2017
26) RearSamp      15    1242-CAL4B,185545:1,17499,NSA
      Datafile          030618025
      Method            GEBIOTA2017
27) Sample        14    1242-CAL3B,185544:1,17498,NSA
      Datafile          030618026
      Method            GEBIOTA2017
28) RearSamp      16    1242-CAL5B,185546:1,17499,NSA
      Datafile          030618027
      Method            GEBIOTA2017
29) Sample        15    1242-CAL4B,185545:1,17498,NSA
      Datafile          030618028
      Method            GEBIOTA2017
30) RearSamp      17    HEXANE
      Datafile          030618029
      Method            GEBIOTA2017
31) Sample        16    1242-CAL5B,185546:1,17498,NSA
      Datafile          030618030
      Method            GEBIOTA2017
32) RearSamp      18    1248-CAL1D,188134:1,17499,NSA
      Datafile          030618031
      Method            GEBIOTA2017
33) Sample        17    HEXANE
      Datafile          030618032
      Method            GEBIOTA2017
34) RearSamp      19    1248-CAL2D,185548:1,17499,NSA
      Datafile          030618033
      Method            GEBIOTA2017
35) Sample        18    1248-CAL1D,188134:1,17498,NSA
      Datafile          030618034
      Method            GEBIOTA2017
36) RearSamp      20    1248-CAL3D,185549:1,17499,NSA
      Datafile          030618035
      Method            GEBIOTA2017
37) Sample        19    1248-CAL2D,185548:1,17498,NSA
      Datafile          030618036
      Method            GEBIOTA2017
38) RearSamp      21    1248-CAL4D,185550:1,17499,NSA
      Datafile          030618037
      Method            GEBIOTA2017
39) Sample        20    1248-CAL3D,185549:1,17498,NSA
      Datafile          030618038
      Method            GEBIOTA2017
40) RearSamp      22    1248-CAL5D,185551:1,17499,NSA
      Datafile          030618039
      Method            GEBIOTA2017
41) Sample        21    1248-CAL4D,185550:1,17498,NSA
      Datafile          030618040
      Method            GEBIOTA2017
42) RearSamp      23    HEXANE
      Datafile          030618041
      Method            GEBIOTA2017
43) Sample        22    1248-CAL5D,185551:1,17498,NSA
      Datafile          030618042
      Method            GEBIOTA2017

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Read and Understood By

Bryan Meyer — Signed — 3/7/18 Date

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Sequence Name: C:\msdchem\1\sequence\030618.s

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	24	1254-CAL1C,188135:1,17499,NSA		
	Datafile		030618043		
	Method			GEBIOTA2017	
45)	Sample	23	HEXANE		
	Datafile		030618044		
	Method			GEBIOTA2017	
46)	RearSamp	25	1254-CAL2C,185553:1,17499,NSA		
	Datafile		030618045		
	Method			GEBIOTA2017	
47)	Sample	24	1254-CAL1C,188135:1,17498,NSA		
	Datafile		030618046		
	Method			GEBIOTA2017	
48)	RearSamp	26	1254-CAL3C,185554:1,17499,NSA		
	Datafile		030618047		
	Method			GEBIOTA2017	
49)	Sample	25	1254-CAL2C,185553:1,17498,NSA		
	Datafile		030618048		
	Method			GEBIOTA2017	
50)	RearSamp	27	1254-CAL4C,185555:1,17499,NSA		
	Datafile		030618049		
	Method			GEBIOTA2017	
51)	Sample	26	1254-CAL3C,185554:1,17498,NSA		
	Datafile		030618050		
	Method			GEBIOTA2017	
52)	RearSamp	28	1254-CAL5C,185556:1,17499,NSA		
	Datafile		030618051		
	Method			GEBIOTA2017	
53)	Sample	27	1254-CAL4C,185555:1,17498,NSA		
	Datafile		030618052		
	Method			GEBIOTA2017	
54)	RearSamp	29	HEXANE		
	Datafile		030618053		
	Method			GEBIOTA2017	
55)	Sample	28	1254-CAL5C,185556:1,17498,NSA		
	Datafile		030618054		
	Method			GEBIOTA2017	
56)	RearSamp	30	1660-CAL1A,188136:1,17499,AR1		
	Datafile		030618055		
	Method			GEBIOTA2017	
57)	Sample	29	HEXANE		
	Datafile		030618056		
	Method			GEBIOTA2017	
58)	RearSamp	31	1660-CAL2A,185558:1,17499,AR1		
	Datafile		030618057		
	Method			GEBIOTA2017	
59)	Sample	30	1660-CAL1A,188136:1,17498,AR1		
	Datafile		030618058		
	Method			GEBIOTA2017	
60)	RearSamp	32	1660-CAL3A,185559:1,17499,AR1		
	Datafile		030618059		
	Method			GEBIOTA2017	
61)	Sample	31	1660-CAL2A,185558:1,17498,AR1		
	Datafile		030618060		
	Method			GEBIOTA2017	
62)	RearSamp	33	1660-CAL4A,185560:1,17499,AR1		
	Datafile		030618061		
	Method			GEBIOTA2017	
63)	Sample	32	1660-CAL3A,185559:1,17498,AR1		
	Datafile		030618062		
	Method			GEBIOTA2017	
64)	RearSamp	34	1660-CAL5A,185561:1,17499,AR1		
	Datafile		030618063		
	Method			GEBIOTA2017	
65)	Sample	33	1660-CAL4A,185560:1,17498,AR1		
	Datafile		030618064		
	Method			GEBIOTA2017	
66)	RearSamp	35	HEXANE		
	Datafile		030618065		

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Bryan Meyer — Signed — 3/7/18 Date

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```
      Method                GEBIOTA2017
67) Sample          34  1660-CAL5A,185561:1,17498,AR1
      Datafile            030618066
      Method              GEBIOTA2017
68) RearSamp        36  1221-ICV,188142:1,17499,AR122
      Datafile            030618067
      Method              GEBIOTA2017
69) Sample          35  HEXANE
      Datafile            030618068
      Method              GEBIOTA2017
70) RearSamp        37  1242-ICV,185562:1,17499,AR124 OK
      Datafile            030618069
      Method              GEBIOTA2017
71) Sample          36  1221-ICV,188142:1,17498,AR122 OK
      Datafile            030618070
      Method              GEBIOTA2017
72) RearSamp        38  1248-ICV,185563:1,17499,AR124 OK
      Datafile            030618071
      Method              GEBIOTA2017
73) Sample          37  1242-ICV,185562:1,17498,AR124 OK
      Datafile            030618072
      Method              GEBIOTA2017
74) RearSamp        39  1254-ICV,185564:1,17499,AR125 OK
      Datafile            030618073
      Method              GEBIOTA2017
75) Sample          38  1248-ICV,185563:1,17498,AR124 OK
      Datafile            030618074
      Method              GEBIOTA2017
76) RearSamp        40  1660-ICV,185565:1,17499,AR166 OK
      Datafile            030618075
      Method              GEBIOTA2017
77) Sample          39  1254-ICV,185564:1,17498,AR125 OK
      Datafile            030618076
      Method              GEBIOTA2017
78) RearSamp        41  1221-CRDL,188138:1,17499,RL12 OK
      Datafile            030618077
      Method              GEBIOTA2017
79) Sample          40  1660-ICV,185565:1,17498,AR166 OK
      Datafile            030618078
      Method              GEBIOTA2017
80) RearSamp        42  1242-CRDL,188132:1,17499,RL12 OK
      Datafile            030618079
      Method              GEBIOTA2017
81) Sample          41  1221-CRDL,188138:1,17498,RL12 OK
      Datafile            030618080
      Method              GEBIOTA2017
82) RearSamp        43  1248-CRDL,188134:1,17499,RL12 OK
      Datafile            030618081
      Method              GEBIOTA2017
83) Sample          42  1242-CRDL,188132:1,17498,RL12 OK
      Datafile            030618082
      Method              GEBIOTA2017
84) RearSamp        44  1254-CRDL,188135:1,17499,RL12 OK
      Datafile            030618083
      Method              GEBIOTA2017
85) Sample          43  1248-CRDL,188134:1,17498,RL12 OK
      Datafile            030618084
      Method              GEBIOTA2017
86) RearSamp        45  1660-CRDL,188136:1,17499,RL16 OK
      Datafile            030618085
      Method              GEBIOTA2017
87) Sample          44  1254-CRDL,188135:1,17498,RL12 OK
      Datafile            030618086
      Method              GEBIOTA2017
88) RearSamp        46  HEXANE
      Datafile            030618087
      Method              GEBIOTA2017
89) Sample          45  1660-CRDL,188136:1,17498,RL16 OK
      Datafile            030618088
      Method              GEBIOTA2017

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Read and Understood By

Signed: [signature] Date: 3/7/18

Signed: [signature] Date: 3/7/18

```
   Sequence Name: C:\msdchem\1\sequence\030718.s
         Comment:
        Operator: BLM
       Data Path: C:\MSDCHEM\1\DATA\030718\
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          030718001
     Method            GEBIOTA2017
 3) Sample          2  prime
     Datafile          030718002
     Method            GEBIOTA2017
 4) RearSamp        3  HEXANE
     Datafile          030718003
     Method            GEBIOTA2017
 5) Sample          4  HEXANE
     Datafile          030718004
     Method            GEBIOTA2017
 6) RearSamp        5  HEXANE
     Datafile          030718005
     Method            GEBIOTA2017
 7) Sample          6  HEXANE
     Datafile          030718006
     Method            GEBIOTA2017
 8) RearSamp        7  1221-CCV,185538:1,17499,AR122 ok
     Datafile          030718007
     Method            GEBIOTA2017
 9) Sample          8  1221-CCV,185538:1,17498,AR122 ok
     Datafile          030718008
     Method            GEBIOTA2017
10) RearSamp        9  1221-CCV,185538:1,17499,AR122 ok
     Datafile          030718009
     Method            GEBIOTA2017
11) Sample         10  1221-CCV,185538:1,17498,AR122 ok
     Datafile          030718010
     Method            GEBIOTA2017
12) RearSamp       11  1653810,,17493,BIOTA
     Datafile          030718011
     Method            GEBIOTA2017
13) Sample         12  1654789,,17504,BIOTA
     Datafile          030718012
     Method            GEBIOTA2017
14) RearSamp       13  1653811,,17493,BIOTA
     Datafile          030718013
     Method            GEBIOTA2017
15) Sample         14  1654790,,17504,BIOTA
     Datafile          030718014
     Method            GEBIOTA2017
16) RearSamp       15  1653812 x2,,17493,BIOTA
     Datafile          030718015
     Method            GEBIOTA2017
17) Sample         16  1654791,,17504,BIOTA
     Datafile          030718016
     Method            GEBIOTA2017
18) RearSamp       17  40148598001,,17493,BIOTA
     Datafile          030718017
     Method            GEBIOTA2017
19) Sample         18  40148722009,,17504,BIOTA
     Datafile          030718018
     Method            GEBIOTA2017
20) RearSamp       19  40148598002,,17493,BIOTA

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Bryan Mayl — Signed — 3/8/18 — Date

Jim O'Connor — Signed — 3-8-18 — Date

```
      Datafile          030718019
      Method            GEBIOTA2017
21) Sample        20    1654792,,17504,BIOTA
      Datafile          030718020
      Method            GEBIOTA2017
22) RearSamp      21    40148598003,,17493,BIOTA
      Datafile          030718021
      Method            GEBIOTA2017
23) Sample        22    40150295001,,17504,BIOTA
      Datafile          030718022
      Method            GEBIOTA2017
24) RearSamp      23    40148598004,,17493,BIOTA
      Datafile          030718023
      Method            GEBIOTA2017
25) Sample        24    40150295002,,17504,BIOTA
      Datafile          030718024
      Method            GEBIOTA2017
26) RearSamp      25    40148598005 x2,,17493,BIOTA
      Datafile          030718025
      Method            GEBIOTA2017
27) Sample        26    40150295003,,17504,BIOTA
      Datafile          030718026
      Method            GEBIOTA2017
28) RearSamp      27    1653813 x2,,17493,BIOTA
      Datafile          030718027
      Method            GEBIOTA2017
29) Sample        28    40150295004,,17504,BIOTA
      Datafile          030718028
      Method            GEBIOTA2017
30) RearSamp      29    40148671001,,17493,BIOTA
      Datafile          030718029
      Method            GEBIOTA2017
31) Sample        30    40150295005,,17504,BIOTA
      Datafile          030718030
      Method            GEBIOTA2017
32) RearSamp      31    1232-CCV,185539:1,17499,AR123 ok
      Datafile          030718031
      Method            GEBIOTA2017
33) Sample        32    1232-CCV,185539:1,17498,AR123 ok
      Datafile          030718032
      Method            GEBIOTA2017
34) RearSamp      33    1232-CCV,185539:1,17499,AR123 ok
      Datafile          030718033
      Method            GEBIOTA2017
35) Sample        34    1232-CCV,185539:1,17498,AR123 ok
      Datafile          030718034
      Method            GEBIOTA2017
36) RearSamp      35    40148671002,,17493,BIOTA
      Datafile          030718035
      Method            GEBIOTA2017
37) Sample        36    40150295006,,17504,BIOTA
      Datafile          030718036
      Method            GEBIOTA2017
38) RearSamp      37    40148671003,,17493,BIOTA
      Datafile          030718037
      Method            GEBIOTA2017
39) Sample        38    40150295007,,17504,BIOTA
      Datafile          030718038
      Method            GEBIOTA2017
40) RearSamp      39    40148671004,,17493,BIOTA
      Datafile          030718039
      Method            GEBIOTA2017
41) Sample        40    40150295008,,17504,BIOTA
      Datafile          030718040
      Method            GEBIOTA2017
42) RearSamp      41    1653814,,17493,BIOTA
      Datafile          030718041
      Method            GEBIOTA2017
43) Sample        42    40150295009,,17504,BIOTA
      Datafile          030718042
      Method            GEBIOTA2017

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Read and Understood By

Signed: Bryan Meyer — Date: 3/8/18

Signed: Jim O'Connor — Date: 3-8-18

Sequence Name: C:\msdchem\1\sequence\030718.s

	Line Type	Vial	DataFile Method	Sample Name
44)	RearSamp	43	40148671005,,17493,BIOTA	
	Datafile		030718043	
	Method		GEBIOTA2017	
45)	Sample	44	1654793,,17504,BIOTA	
	Datafile		030718044	
	Method		GEBIOTA2017	
46)	RearSamp	45	40148671006,,17493,BIOTA	
	Datafile		030718045	
	Method		GEBIOTA2017	
47)	Sample	46	40150295010 x2,,17504,BIOTA	
	Datafile		030718046	
	Method		GEBIOTA2017	
48)	RearSamp	47	40148722001,,17493,BIOTA	
	Datafile		030718047	
	Method		GEBIOTA2017	
49)	Sample	48	40150295011 x2,,17504,BIOTA	
	Datafile		030718048	
	Method		GEBIOTA2017	
50)	RearSamp	49	40148722002,,17493,BIOTA	
	Datafile		030718049	
	Method		GEBIOTA2017	
51)	Sample	50	40150295012,,17504,BIOTA	
	Datafile		030718050	
	Method		GEBIOTA2017	
52)	RearSamp	51	40148722003 x2,,17493,BIOTA	
	Datafile		030718051	
	Method		GEBIOTA2017	
53)	Sample	52	40150295013 x10,,17504,BIOTA	
	Datafile		030718052	
	Method		GEBIOTA2017	
54)	RearSamp	53	40148722004,,17493,BIOTA	
	Datafile		030718053	
	Method		GEBIOTA2017	
55)	Sample	54	40150295014,,17504,BIOTA	
	Datafile		030718054	
	Method		GEBIOTA2017	
56)	RearSamp	55	1242-CCV,185544:1,17499,AR124 ok	
	Datafile		030718055	
	Method		GEBIOTA2017	
57)	Sample	56	1242-CCV,185544:1,17498,AR124 ok	
	Datafile		030718056	
	Method		GEBIOTA2017	
58)	RearSamp	57	1242-CCV,185544:1,17499,AR124 ok	
	Datafile		030718057	
	Method		GEBIOTA2017	
59)	Sample	58	1242-CCV,185544:1,17498,AR124 ok	
	Datafile		030718058	
	Method		GEBIOTA2017	
60)	RearSamp	59	40148722005,,17493,BIOTA	
	Datafile		030718059	
	Method		GEBIOTA2017	
61)	Sample	60	40150295015 x2,,17504,BIOTA	
	Datafile		030718060	
	Method		GEBIOTA2017	
62)	RearSamp	61	40148722006,,17493,BIOTA	
	Datafile		030718061	
	Method		GEBIOTA2017	
63)	Sample	62	40150295016,,17504,BIOTA	
	Datafile		030718062	
	Method		GEBIOTA2017	
64)	RearSamp	63	40148722007,,17493,BIOTA	
	Datafile		030718063	
	Method		GEBIOTA2017	
65)	Sample	64	40150295017,,17504,BIOTA	
	Datafile		030718064	
	Method		GEBIOTA2017	
66)	RearSamp	65	40148722008,,17493,BIOTA	
	Datafile		030718065	

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Beg Meyl 3/8/18 Tim O'Connor 3-8-18
Signed Date Signed Date

```
      Method          GEBIOTA2017
67) Sample        66  40150295018,,17504,BIOTA
      Datafile        030718066
      Method          GEBIOTA2017
68) RearSamp      67  1248-CCV,185549:1,17499,AR124 OK
      Datafile        030718067
      Method          GEBIOTA2017
69) Sample        68  1248-CCV,185549:1,17498,AR124 OK
      Datafile        030718068
      Method          GEBIOTA2017
70) RearSamp      69  1248-CCV,185549:1,17499,AR124 OK
      Datafile        030718069
      Method          GEBIOTA2017
71) Sample        70  1248-CCV,185549:1,17498,AR124 OK
      Datafile        030718070
      Method          GEBIOTA2017
```

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Read and Understood By

Signed 3/8/18 Date Signed 3-8-18 Date

Standard Log Report

Standards Log Information for Standard #190415

WORKING STANDARD

Created By:	AMC	**Volume of Standard:**	4 L	**Lot ID:**	NA
Create Date:	03/02/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	09/02/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT498

Notes:

Hexane/Acetone 1:1 By AMC

Compound Name and Concentration for Standard #190415

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Hexanes	ug/mL

Composed of Information for Standard #190415

Composed of Standard Seq	Volume	Units
189478	2000	mL
188917	2000	mL

Standard Log Report

Standards Log Information for Standard #189973

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	1000 mL	**Lot ID:**	GCSV
Create Date:	02/26/2018	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	08/26/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	8081-SS

Notes:

Pest/PCB Surrogate Spike 40GCSC.i\022618SurrVal.b\A226037 TCMX-116.01% DCB-98.69%

Compound Name and Concentration for Standard #189973

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	Decachlorobiphenyl (S)	2 ug/mL
Tetrachloro-m-xylene (S)	2 ug/mL		

Composed of Information for Standard #189973

Composed of Standard Seq	Volume	Units
179366	999	mL
172034	1	mL

Standard Log Report

Standards Log Information for Standard #189478

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405758
Create Date:	02/19/2018	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	03/21/2019	**Manufacturer Lot ID:**	DS923	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #189478

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #188917

STOCK STANDARD

Created By:	ETB	**Volume of Standard:**	215 L	**Lot ID:**	405750
Create Date:	02/12/2018	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	01/15/2019	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed ETB 02/12/18

Compound Name and Concentration for Standard #188917

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #188142

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-ICV

Notes:

1221 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #188142

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #188142

Composed of Standard Seq	Volume	Units
188137	500	uL
188129	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #188141

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL5

Notes:

1221 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #188141

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	1 ug/mL	PCB-1221 (Aroclor 1221)-1	1 ug/mL
PCB-1221 (Aroclor 1221)-2	1 ug/mL	PCB-1221 (Aroclor 1221)-3	1 ug/mL
PCB-1221 (Aroclor 1221)-4	1 ug/mL	PCB-1232 (Aroclor 1232)-5	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #188141

Composed of Standard Seq	Volume	Units
188129	1500	uL
185526	1000	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #188140

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL4

Notes:

1221 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #188140

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.8 ug/mL	PCB-1221 (Aroclor 1221)-1	.8 ug/mL
PCB-1221 (Aroclor 1221)-2	.8 ug/mL	PCB-1221 (Aroclor 1221)-3	.8 ug/mL
PCB-1221 (Aroclor 1221)-4	.8 ug/mL	PCB-1232 (Aroclor 1232)-5	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #188140

Composed of Standard Seq	Volume	Units
188129	1000	uL
185526	800	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #188139

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL2

Notes:

1221 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #188139

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.2 ug/mL	PCB-1221 (Aroclor 1221)-1	.2 ug/mL
PCB-1221 (Aroclor 1221)-2	.2 ug/mL	PCB-1221 (Aroclor 1221)-3	.2 ug/mL
PCB-1221 (Aroclor 1221)-4	.2 ug/mL	PCB-1232 (Aroclor 1232)-5	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #188139

Composed of Standard Seq	Volume	Units
188129	200	uL
185526	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #188138

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL1

Notes:

NY 1221 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188138

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.1 ug/mL	PCB-1221 (Aroclor 1221)-1	.1 ug/mL
PCB-1221 (Aroclor 1221)-2	.1 ug/mL	PCB-1221 (Aroclor 1221)-3	.1 ug/mL
PCB-1221 (Aroclor 1221)-4	.1 ug/mL	PCB-1232 (Aroclor 1232)-5	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188138

Composed of Standard Seq	Volume	Units
188129	100	uL
185526	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188137

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #188137

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL

Composed of Information for Standard #188137

Composed of Standard Seq	Volume	Units
184640	9	mL
179816	1000	uL

Standard Log Report

Standards Log Information for Standard #188136

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL1

Notes:

NY 1660 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188136

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.1 ug/mL	PCB-1260 (Aroclor 1260)	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188136

Composed of Standard Seq	Volume	Units
188129	100	uL
185533	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188135

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL1

Notes:

NY 1254 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188135

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188135

Composed of Standard Seq	Volume	Units
188129	100	uL
185530	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188134

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL1

Notes:

NY 1248 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188134

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.1 ug/mL	Tetrachloro-m-xylene (S)	.01 ug/mL

Composed of Information for Standard #188134

Composed of Standard Seq	Volume	Units
188129	100	uL
185529	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188132

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	07/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL1

Notes:

NY 1242 Cal 1 Std @ 0.1 ug/mL

Compound Name and Concentration for Standard #188132

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.01 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.1 ug/mL	PCB-1242 (Aroclor 1242)	.1 ug/mL
PCB-1242 (Aroclor 1242)-6	.1 ug/mL	PCB-1242 (Aroclor 1242)-7	.1 ug/mL
PCB-1242 (Aroclor 1242)-8	.1 ug/mL	PCB-1242 (Aroclor 1242)-9	.1 ug/mL
Tetrachloro-m-xylene (S)	.01 ug/mL		

Composed of Information for Standard #188132

Composed of Standard Seq	Volume	Units
188129	100	uL
185528	100	uL
184640	99.8	mL

Standard Log Report

Standards Log Information for Standard #188129

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	01/30/2018	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #188129

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #188129

Composed of Standard Seq	Volume	Units
185958	1	mL
184640	19	mL

Standard Log Report

Standards Log Information for Standard #186910

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	3 kg	**Lot ID:**	405706
Create Date:	01/12/2018	**Manufacturer:**	Fisher Scientific	**Part ID:**	F100-3
Expire Date:	01/11/2020	**Manufacturer Lot ID:**	174228	**Standard ID:**	RGNT142

Notes:

Florisil, 60-100 Mesh by AMC

Compound Name and Concentration for Standard #186910

Compound Name	Concentration	Compound Name	Concentration
Florisil			

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #186889

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	45.5 kg	**Lot ID:**	405550
Create Date:	01/11/2018	**Manufacturer:**	JT Baker	**Part ID:**	3375-09
Expire Date:	05/22/2022	**Manufacturer Lot ID:**	0000177456	**Standard ID:**	RGNT301

Notes:

Sodium Sulfate SVOA

Compound Name and Concentration for Standard #186889

Compound Name	Concentration	Compound Name	Concentration
Sodium Sulfate			

Standard Log Report

Standards Log Information for Standard #185958

INDIVIDUAL STANDARD

Created By:	BLM	**Volume of Standard:**	1 mL	**Lot ID:**	405693
Create Date:	01/02/2018	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	11/30/2023	**Manufacturer Lot ID:**	A0130424	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #185958

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #185565

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-ICV

Notes:

1660 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185565

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185565

Composed of Standard Seq	Volume	Units
185537	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185564

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-ICV

Notes:

1254 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185564

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185564

Composed of Standard Seq	Volume	Units
185536	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185563

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-ICV

Notes:

1248 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185563

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185563

Composed of Standard Seq	Volume	Units
185535	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185562

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-ICV

Notes:

1242 ICV Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185562

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185562

Composed of Standard Seq	Volume	Units
185534	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185561

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL5

Notes:

1660 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185561

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	1 ug/mL	PCB-1260 (Aroclor 1260)	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185561

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185560

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL4

Notes:

1660 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185560

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.8 ug/mL	PCB-1260 (Aroclor 1260)	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185560

Composed of Standard Seq	Volume	Units
185533	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185559

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL3

Notes:

1660 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185559

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.5 ug/mL	PCB-1260 (Aroclor 1260)	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185559

Composed of Standard Seq	Volume	Units
185533	1	mL
185524	1	mL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185558

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-CAL2

Notes:

1660 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185558

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1016 (Aroclor 1016)	.2 ug/mL	PCB-1260 (Aroclor 1260)	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185558

Composed of Standard Seq	Volume	Units
185533	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185556

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL5

Notes:

1254 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185556

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185556

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185555

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL4

Notes:

1254 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185555

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185555

Composed of Standard Seq	Volume	Units
185530	800	uL
185524	1000	uL
184640	98.2	mL

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #185554

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL3

Notes:

1254 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185554

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185554

Composed of Standard Seq	Volume	Units
185530	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185553

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-CAL2

Notes:

1254 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185553

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1254 (Aroclor 1254)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185553

Composed of Standard Seq	Volume	Units
185530	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185551

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL5

Notes:

1248 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185551

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	1 ug/mL	Tetrachloro-m-xylene (S)	.15 ug/mL

Composed of Information for Standard #185551

Composed of Standard Seq	Volume	Units
185529	1	mL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185550

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL4

Notes:

1248 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185550

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.8 ug/mL	Tetrachloro-m-xylene (S)	.1 ug/mL

Composed of Information for Standard #185550

Composed of Standard Seq	Volume	Units
185529	800	uL
185524	1	mL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185549

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL3

Notes:

1248 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185549

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185549

Composed of Standard Seq	Volume	Units
185529	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185548

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-CAL2

Notes:

1248 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185548

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1248 (Aroclor 1248)	.2 ug/mL	Tetrachloro-m-xylene (S)	.02 ug/mL

Composed of Information for Standard #185548

Composed of Standard Seq	Volume	Units
185529	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185546

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL5

Notes:

1242 Cal 5 Std @ 1.0 ug/mL

Compound Name and Concentration for Standard #185546

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.15 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	1 ug/mL	PCB-1242 (Aroclor 1242)	1 ug/mL
PCB-1242 (Aroclor 1242)-6	1 ug/mL	PCB-1242 (Aroclor 1242)-7	1 ug/mL
PCB-1242 (Aroclor 1242)-8	1 ug/mL	PCB-1242 (Aroclor 1242)-9	1 ug/mL
Tetrachloro-m-xylene (S)	.15 ug/mL		

Composed of Information for Standard #185546

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1500	uL
184640	97.5	mL

Standard Log Report

Standards Log Information for Standard #185545

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL4

Notes:

1242 Cal 4 Std @ 0.8 ug/mL

Compound Name and Concentration for Standard #185545

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.1 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.8 ug/mL	PCB-1242 (Aroclor 1242)	.8 ug/mL
PCB-1242 (Aroclor 1242)-6	.8 ug/mL	PCB-1242 (Aroclor 1242)-7	.8 ug/mL
PCB-1242 (Aroclor 1242)-8	.8 ug/mL	PCB-1242 (Aroclor 1242)-9	.8 ug/mL
Tetrachloro-m-xylene (S)	.1 ug/mL		

Composed of Information for Standard #185545

Composed of Standard Seq	Volume	Units
185528	800	uL
185524	1000	uL
184640	98.2	mL

Standard Log Report

Standards Log Information for Standard #185544

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL3

Notes:

1242 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185544

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.5 ug/mL	PCB-1242 (Aroclor 1242)	.5 ug/mL
PCB-1242 (Aroclor 1242)-6	.5 ug/mL	PCB-1242 (Aroclor 1242)-7	.5 ug/mL
PCB-1242 (Aroclor 1242)-8	.5 ug/mL	PCB-1242 (Aroclor 1242)-9	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185544

Composed of Standard Seq	Volume	Units
185528	1000	uL
185524	1000	uL
184640	198	mL

Standard Log Report

Standards Log Information for Standard #185543

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-CAL2

Notes:

1242 Cal 2 Std @ 0.2 ug/mL

Compound Name and Concentration for Standard #185543

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.02 ug/mL	Hexanes	ug/mL
PCB-1242 (Aroclor 1242)	.2 ug/mL	PCB-1242 (Aroclor 1242)	.2 ug/mL
PCB-1242 (Aroclor 1242)-6	.2 ug/mL	PCB-1242 (Aroclor 1242)-7	.2 ug/mL
PCB-1242 (Aroclor 1242)-8	.2 ug/mL	PCB-1242 (Aroclor 1242)-9	.2 ug/mL
Tetrachloro-m-xylene (S)	.02 ug/mL		

Composed of Information for Standard #185543

Composed of Standard Seq	Volume	Units
185528	200	uL
185524	200	uL
184640	99.6	mL

Standard Log Report

Standards Log Information for Standard #185539

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-CAL3

Notes:

1232 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185539

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1232 (Aroclor 1232)	.5 ug/mL	Tetrachloro-m-xylene (S)	.05 ug/mL

Composed of Information for Standard #185539

Composed of Standard Seq	Volume	Units
185527	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185538

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	100 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	06/27/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-CAL3

Notes:

1221 Cal 3 Std @ 0.5 ug/mL

Compound Name and Concentration for Standard #185538

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	.05 ug/mL	Hexanes	ug/mL
PCB-1221 (Aroclor 1221)	.5 ug/mL	PCB-1221 (Aroclor 1221)-1	.5 ug/mL
PCB-1221 (Aroclor 1221)-2	.5 ug/mL	PCB-1221 (Aroclor 1221)-3	.5 ug/mL
PCB-1221 (Aroclor 1221)-4	.5 ug/mL	PCB-1232 (Aroclor 1232)-5	.5 ug/mL
Tetrachloro-m-xylene (S)	.05 ug/mL		

Composed of Information for Standard #185538

Composed of Standard Seq	Volume	Units
185526	500	uL
185524	500	uL
184640	99	mL

Standard Log Report

Standards Log Information for Standard #185537

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185537

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185537

Composed of Standard Seq	Volume	Units
184640	9	mL
175600	1	mL

Standard Log Report

Standards Log Information for Standard #185536

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185536

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185536

Composed of Standard Seq	Volume	Units
184640	9	mL
173678	1000	uL

Standard Log Report

Standards Log Information for Standard #185535

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185535

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185535

Composed of Standard Seq	Volume	Units
184640	9	mL
173676	1000	uL

Standard Log Report

Standards Log Information for Standard #185534

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	O2Si	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185534

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL

Composed of Information for Standard #185534

Composed of Standard Seq	Volume	Units
184640	9	mL
173674	1000	uL

Standard Log Report

Standards Log Information for Standard #185533

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1660-STK

Notes:

1660 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185533

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1016 (Aroclor 1016)	100 ug/mL
PCB-1260 (Aroclor 1260)	100 ug/mL		

Composed of Information for Standard #185533

Composed of Standard Seq	Volume	Units
184640	9	mL
173188	1	mL

Standard Log Report

Standards Log Information for Standard #185530

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185530

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1254 (Aroclor 1254)	100 ug/mL

Composed of Information for Standard #185530

Composed of Standard Seq	Volume	Units
184640	9	mL
173182	1000	uL

Standard Log Report

Standards Log Information for Standard #185529

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185529

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1248 (Aroclor 1248)	100 ug/mL

Composed of Information for Standard #185529

Composed of Standard Seq	Volume	Units
184640	9	mL
173180	1000	uL

Standard Log Report

Standards Log Information for Standard #185528

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185528

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1242 (Aroclor 1242)	100 ug/mL
PCB-1242 (Aroclor 1242)	100 ug/mL	PCB-1242 (Aroclor 1242)-6	100 ug/mL
PCB-1242 (Aroclor 1242)-7	100 ug/mL	PCB-1242 (Aroclor 1242)-8	100 ug/mL
PCB-1242 (Aroclor 1242)-9	100 ug/mL		

Composed of Information for Standard #185528

Composed of Standard Seq	Volume	Units
184640	9	mL
173178	1000	uL

Standard Log Report

Standards Log Information for Standard #185527

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185527

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1232 (Aroclor 1232)	100 ug/mL

Composed of Information for Standard #185527

Composed of Standard Seq	Volume	Units
184640	9	mL
173176	1000	uL

Standard Log Report

Standards Log Information for Standard #185526

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	10 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 100 ug/mL

Compound Name and Concentration for Standard #185526

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL	PCB-1221 (Aroclor 1221)	100 ug/mL
PCB-1221 (Aroclor 1221)-1	100 ug/mL	PCB-1221 (Aroclor 1221)-2	100 ug/mL
PCB-1221 (Aroclor 1221)-3	100 ug/mL	PCB-1221 (Aroclor 1221)-4	100 ug/mL
PCB-1232 (Aroclor 1232)-5	100 ug/mL		

Composed of Information for Standard #185526

Composed of Standard Seq	Volume	Units
184640	9	mL
173174	1000	uL

Standard Log Report

Standards Log Information for Standard #185524

WORKING STANDARD

Created By:	BDS	**Volume of Standard:**	20 mL	**Lot ID:**	GCSV
Create Date:	12/27/2017	**Manufacturer:**	Restek	**Part ID:**	N/A
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr Std @ 10 ug/mL

Compound Name and Concentration for Standard #185524

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	10 ug/mL	Hexanes	ug/mL
Tetrachloro-m-xylene (S)	10 ug/mL		

Composed of Information for Standard #185524

Composed of Standard Seq	Volume	Units
184640	19	mL
178398	1	mL

Standard Log Report

Standards Log Information for Standard #184640

STOCK STANDARD

Created By:	AMC	**Volume of Standard:**	215 L	**Lot ID:**	405661
Create Date:	12/12/2017	**Manufacturer:**	J.T. Baker	**Part ID:**	9262-8P
Expire Date:	12/15/2018	**Manufacturer Lot ID:**	0000183983	**Standard ID:**	RGNT150

Notes:

Hexane SVOA TANK Changed AMC 12/12/17

Compound Name and Concentration for Standard #184640

Compound Name	Concentration	Compound Name	Concentration
Hexanes	ug/mL		

Standard Log Report

Standards Log Information for Standard #182336

WORKING STANDARD

Created By:	ASD	**Volume of Standard:**	200 mL	**Lot ID:**	GCSV
Create Date:	11/09/2017	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	N/A	**Standard ID:**	AR1242-SPK

Notes:

Ar1242 Spike @20ug/mL 40GCS9.i\111017spk.b\A110047 96% Recovery

Compound Name and Concentration for Standard #182336

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL	PCB-1242 (Aroclor 1242)	20 ug/mL

Composed of Information for Standard #182336

Composed of Standard Seq	Volume	Units
175728	196	mL
164832	4000	uL

Standard Log Report

Standards Log Information for Standard #179816

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	1 mL	**Lot ID:**	405540
Create Date:	10/09/2017	**Manufacturer:**	o2si	**Part ID:**	030273-11
Expire Date:	09/01/2021	**Manufacturer Lot ID:**	316120	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #179816

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #179366

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405532
Create Date:	10/02/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	01/08/2019	**Manufacturer Lot ID:**	DS490	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container

Compound Name and Concentration for Standard #179366

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #178398

INDIVIDUAL STANDARD

Created By:	DMH	**Volume of Standard:**	1 mL	**Lot ID:**	405520
Create Date:	09/18/2017	**Manufacturer:**	Restek	**Part ID:**	32000
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0125833	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 200 ug/mL

Compound Name and Concentration for Standard #178398

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	200 ug/mL	Tetrachloro-m-xylene (S)	200 ug/mL

Standard Log Report

Standards Log Information for Standard #175728

STOCK STANDARD

Created By:	MRN	**Volume of Standard:**	4 L	**Lot ID:**	405434
Create Date:	08/10/2017	**Manufacturer:**	Burdick & Jackson	**Part ID:**	010-4
Expire Date:	11/10/2018	**Manufacturer Lot ID:**	DS178	**Standard ID:**	RGNT036

Notes:

Acetone - 4L container -

Compound Name and Concentration for Standard #175728

Compound Name	Concentration	Compound Name	Concentration
Acetone	ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #175600

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405431
Create Date:	08/09/2017	**Manufacturer:**	O2SI	**Part ID:**	130011-03
Expire Date:	08/09/2018	**Manufacturer Lot ID:**	311587	**Standard ID:**	1660-STK

Notes:

1016/1260 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #175600

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173678

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405386
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030277-06
Expire Date:	03/21/2020	**Manufacturer Lot ID:**	302980	**Standard ID:**	1254-STK

Notes:

1254 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173678

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173676

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405385
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030276-15
Expire Date:	01/14/2020	**Manufacturer Lot ID:**	296389	**Standard ID:**	1248-STK

Notes:

1248 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173676

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173674

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405384
Create Date:	07/17/2017	**Manufacturer:**	O2Si	**Part ID:**	030275-03
Expire Date:	03/20/2027	**Manufacturer Lot ID:**	302979	**Standard ID:**	1242-STK

Notes:

1242 ICV STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173674

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173188

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405375
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32039
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124547	**Standard ID:**	1660-STK

Notes:

Ar1660 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173188

Compound Name	Concentration	Compound Name	Concentration
PCB-1016 (Aroclor 1016)	1000 ug/mL	PCB-1260 (Aroclor 1260)	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173182

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405372
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32011
Expire Date:	05/31/2023	**Manufacturer Lot ID:**	A0125350	**Standard ID:**	1254-STK

Notes:

1254 STK Std @ 1000 ug/mL L

Compound Name and Concentration for Standard #173182

Compound Name	Concentration	Compound Name	Concentration
PCB-1254 (Aroclor 1254)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

Standard Log Report

Standards Log Information for Standard #173180

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405371
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32010
Expire Date:	12/31/2022	**Manufacturer Lot ID:**	A0121842	**Standard ID:**	1248-STK

Notes:

1248 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173180

Compound Name	Concentration	Compound Name	Concentration
PCB-1248 (Aroclor 1248)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173178

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405370
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32009
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124535	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173178

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL	PCB-1242 (Aroclor 1242)	1000 ug/mL
PCB-1242 (Aroclor 1242)-6	1000 ug/mL	PCB-1242 (Aroclor 1242)-7	1000 ug/mL
PCB-1242 (Aroclor 1242)-8	1000 ug/mL	PCB-1242 (Aroclor 1242)-9	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #173176

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405369
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32008
Expire Date:	04/30/2023	**Manufacturer Lot ID:**	A0124534	**Standard ID:**	1232-STK

Notes:

1232 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173176

Compound Name	Concentration	Compound Name	Concentration
PCB-1232 (Aroclor 1232)	1000 ug/mL		

Standard Log Report

Standards Log Information for Standard #173174

INDIVIDUAL STANDARD

Created By:	BDS	**Volume of Standard:**	1 mL	**Lot ID:**	405368
Create Date:	07/07/2017	**Manufacturer:**	Restek	**Part ID:**	32007
Expire Date:	06/30/2023	**Manufacturer Lot ID:**	A0126078	**Standard ID:**	1221-STK

Notes:

1221 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #173174

Compound Name	Concentration	Compound Name	Concentration
PCB-1221 (Aroclor 1221)	1000 ug/mL	PCB-1221 (Aroclor 1221)-1	1000 ug/mL
PCB-1221 (Aroclor 1221)-2	1000 ug/mL	PCB-1221 (Aroclor 1221)-3	1000 ug/mL
PCB-1221 (Aroclor 1221)-4	1000 ug/mL	PCB-1232 (Aroclor 1232)-5	1000 ug/mL

Standard Log Report

Standards Log Information for Standard #172034

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	10 mL	**Lot ID:**	405341
Create Date:	06/23/2017	**Manufacturer:**	O2SI	**Part ID:**	130023-15
Expire Date:	11/06/2018	**Manufacturer Lot ID:**	311236	**Standard ID:**	PEST-SUR

Notes:

Pest/PCB Surr @ 2000 ug/mL - opened 11/6/17 MRN

Compound Name and Concentration for Standard #172034

Compound Name	Concentration	Compound Name	Concentration
Decachlorobiphenyl (S)	2000 ug/mL	Tetrachloro-m-xylene (S)	2000 ug/mL

Standard Log Report

Standards Log Information for Standard #164832

INDIVIDUAL STANDARD

Created By:	MRN	**Volume of Standard:**	25 mL	**Lot ID:**	405214
Create Date:	03/27/2017	**Manufacturer:**	O2SI	**Part ID:**	030275-07
Expire Date:	03/30/2018	**Manufacturer Lot ID:**	302694	**Standard ID:**	1242-STK

Notes:

1242 STK Std @ 1000 ug/mL

Compound Name and Concentration for Standard #164832

Compound Name	Concentration	Compound Name	Concentration
PCB-1242 (Aroclor 1242)	1000 ug/mL		

The standards listed are from Pace's Green Bay Laboratory.

405214
REC. 03/27/17 BY MRM
Exp. __/__/__ By __

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Rev 0 **Page 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-07	302694	≤ Ambient	Tol.:Hex. 1:1	15-Jan-2021	Aroclor 1242 Solution, 1,000 mg/L, 25 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1002 +/- 5.75	mg/L

Certified By: _____

Dreema Murray

Manufacture Date 17-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

405341
REC. 06/23/17 BY MRN
Exp. --/--/-- By --

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130023-15	311236	≤ 6 °C	Tol.:Hex. 1:1	8-Jun-2019	Pesticide Surrogate Solution, 2,000 mg/L, 10 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
decachlorobiphenyl (BZ# 209)	2051-24-3	99.1	301.115.5P	2022 +/- 4.56	mg/L
2,4,5,6-tetrachloro-m-xylene	877-09-8	98.6	300.115.3P	1996 +/- 14.54	mg/L

Certified By: Kaylie Gillenkirk

Kaylie Gillenkirk

Manufacture Date 8-Jun-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007 **Lot No.:** A0126078

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 2781200)		+/- 31.9602	µg/mL	Unstressed
	Purity ----%			+/- 41.7506	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405368
REC. 07/06/17 BY BDS
Exp. --/--/-- BY --

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

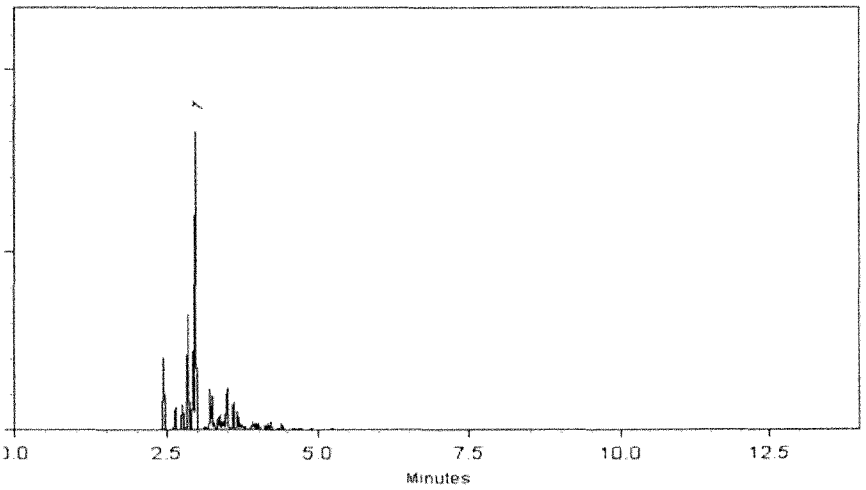
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 22-Mar-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Mar-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32008 **Lot No.:** A0124534

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.7072	µg/mL	Unstressed
	Purity ----%		+/- 41.4130	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405369
REC.07/06/17 BY BDS
Exp. __/__/__ By --
Open __/__/__ By --

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

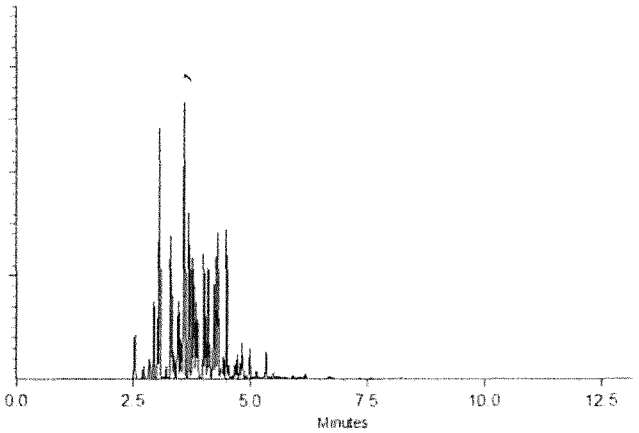
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech.ARM QC

Date Passed: 31-Jan-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32009 **Lot No.:** A0124535

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1242		1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 53469-21-9	(Lot 01141-A)		+/- 31.7706	µg/mL	Unstressed
	Purity ----%			+/- 41.4958	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405370
REC.07/06/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

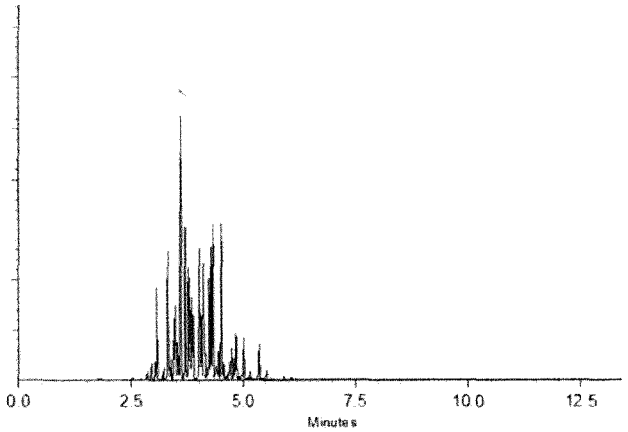
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 27-Jan-2017 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Jan-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 **Lot No.:** A0121842

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1248	996.8 µg/mL	+/- 5.8498 µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 07)		+/- 31.5925 µg/mL	Unstressed
	Purity ----%		+/- 41.2704 µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405371
REC.07/06/17 BY BDS
Exp. __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

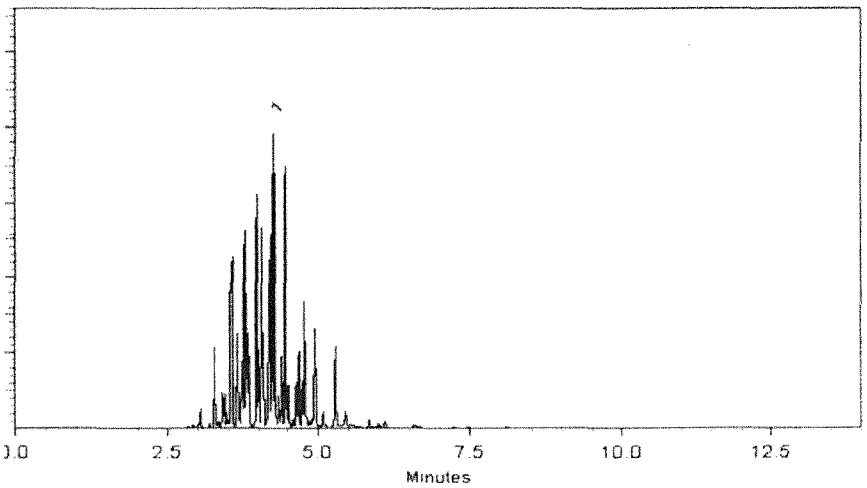
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician

Date Mixed: 29-Sep-2016 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Oct-2016

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32011 **Lot No.:** A0125350

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254		1,005.6 µg/mL	+/- 5.9014	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8715	µg/mL	Unstressed
	Purity ----%			+/- 41.6347	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405372
REC.07/06/17 BY BDS
Exp. __/__/__ By __

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

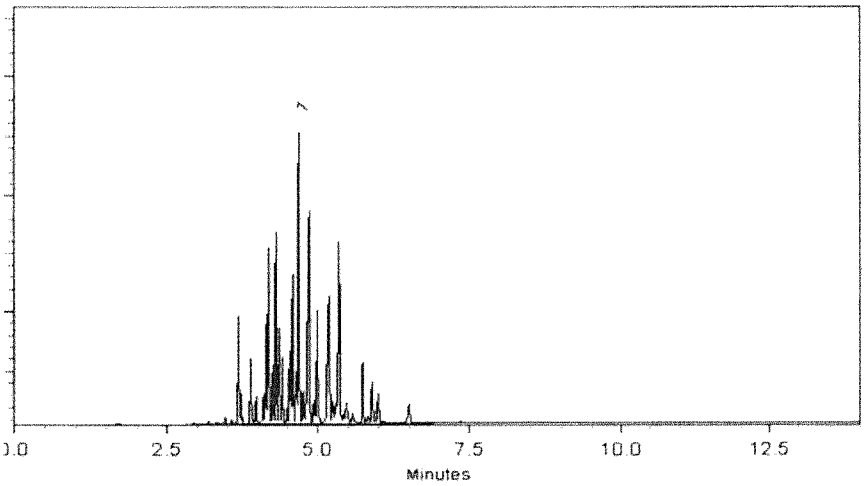
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician **Date Mixed:** 24-Feb-2017 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 13-Mar-2017

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0124547

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,002.0 µg/mL	+/- 5.8392	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot W-125-04)		+/- 31.7498	µg/mL	Unstressed
	Purity ----%			+/- 41.4799	µg/mL	Stressed
2	Aroclor 1260		1,002.2 µg/mL	+/- 5.8403	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot W-129-06)		+/- 31.7561	µg/mL	Unstressed
	Purity ----%			+/- 41.4881	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

405375
REC. 07/06/17 BY BDS
Exp. --/--/-- By --
Open / / By

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

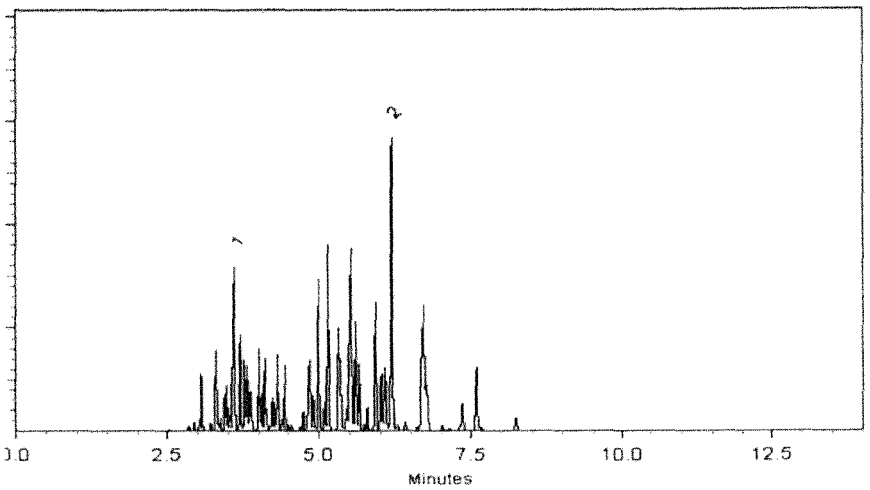
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 30-Jan-2017 **Balance:** B442140311

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Feb-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030275-03	302979	Ambient or Less	Hexane	20-Mar-2027	Aroclor 1242 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1242	53469-21-9	100	275.3.5.2P	1010 +/- 7.38	mg/L

405384
REC.07/13/17 BY BDS
Exp. __/__/__ By --
Open / / By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030276-15	296389	≤ Ambient	Hexane	14-Jan-2020	Aroclor 1248 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1248	12672-29-6	100	276.3.1P	1008 +/- 4.47	mg/L

405385
REC. 07/13/17 BY BDS
Exp. --/--/-- By --

Certified By: _____

Katrina Emelianoff

Manufacture Date 9-Jan-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
030277-06	302980	≤ Ambient	Hexane	21-Mar-2020	Aroclor 1254 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1254	11097-69-1	100	277.6.4P	1004 +/- 4.32	mg/L

405386
REC. 07/13/17 BY BDS
Exp. __/__/__ By __
Open __/__/__ By

Certified By: _____

Katrina Emelianoff

Manufacture Date 22-Mar-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Date Received: _____

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
130011-03	311587	≤ Ambient	Hexane	28-Jul-2020	Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
Aroclor 1016	12674-11-2	100	272.5.1.6P	1006 +/- 3.01	mg/L
Aroclor 1260	11096-82-5	100	278.3.10P	1016 +/- 3.02	mg/L

405431
REC. 08/07/17 BY BDS
Exp. --/--/-- By --

Certified By: _____
Christina Elder

Manufacture Date 24-Jul-2017

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

405434
REC 08/10/17 BY MRN
Exp. --/--/-- By --
Open --/--/-- By --

Honeywell

CERTIFICATE OF ANALYSIS

Honeywell Burdick & Jackson®
1953 South Harvey Street
Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	DS178
Production Date:	12-May-2017
Best Before:	10-Nov-2018

Acetone, B&J Brand™, >99.9%
for HPLC, GC, pesticide residue analysis and spectrophotometry

Parameter	Specification Min.	Max.	Result	Units
Water by Karl Fischer Titration		0.50	0.29	%
UV Cutoff		330	328	nm
Refractive Index (20°C)	1.3583	1.3589	1.3586	
Residue		1	<0.5	mg/L
GC Analysis (excluding water)	99.9		99.95	%
Electron Capture GC		10	<10	ng/L
UV Absorbance @ 340 nm		0.060	0.0527	AU
UV Absorbance @ 350 nm		0.010	0.0048	AU
UV Absorbance @ 375 nm		0.005	0.0013	AU
UV Absorbance @ 400 nm		0.005	<0.0001	AU

Honeywell
Quality Control Approval

Janna Dickinson

Muskegon 5/12/2017 LIMS Sample No.: AI06733

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** 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)

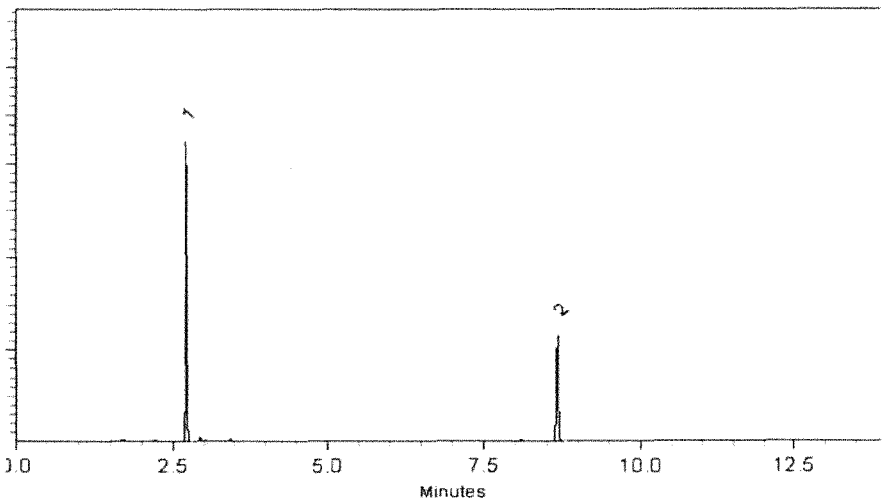
Carrier Gas:
helium-constant pressure 20 psi.

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

Honeywell Burdick & Jackson®
1953 South Harvey Street
Muskegon, MI 49442
Phone: (800) 368-0050
Fax: (231) 728-8226
www.lab-honeywell.com

Brand:	Research Chemicals - B&J
Product:	010
Lot No.:	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

o2si smart solutions®

Quality System Audited & Registered by NSF-ISR to ISO 9001:2008

2030 Savage Road
Charleston, South Carolina 29407
Phone: 866.272.0932
Fax: 866.509.5146
www.o2si.com

ACCREDITED

ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0 **Page 1 of 1**

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 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

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0130424

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

405693
REC.01/02/18 BY BLM
Exp: --/--/-- By --
Open / / By

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		201.2 µg/mL	+/- 1.1725	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3751	µg/mL	Unstressed
	Purity 98%			+/- 8.3288	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.5 µg/mL	+/- 1.1742	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3848	µg/mL	Unstressed
	Purity 99%			+/- 8.3415	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

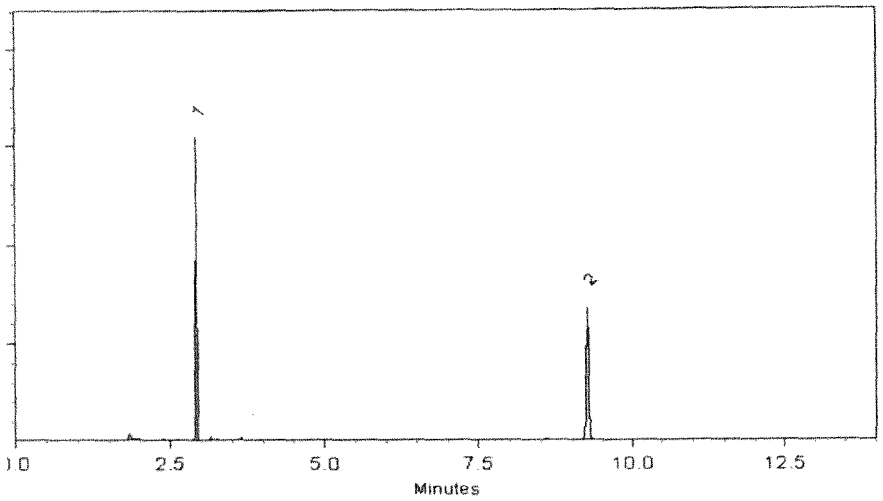
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 31-Aug-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Sep-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis

405750
REC. 02/12/18 BY ETB
Exp. --/--/-- By --

J.T.Baker | avantor

Material No.: 9262-8P
Batch No.: 0000187681
Manufactured Date: 2017/10/16
Expiration Date: 2019/01/15

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	5
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	<= 5	< 1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	>= 99.5 %	99.9
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	99
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2
Substances Darkened by H_2SO_4	Passes Test	PT
Water (by KF, coulometric)	<= 0.05 %	0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
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3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

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Quality System Audited & Registered by NSF-ISR to ISO 9001:2008

ISO 17025 Accredited Chemical Testing Lab Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 1 **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.

SAMPLE NO.

TZ1-170418-01-STB-05

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40148598 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40148598001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.9		%	1	03/07/2018 06:41

SAMPLE NO.

TZ1-170418-01-STB-04

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40148598 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40148598002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	0.34		%	1	03/07/2018 06:41

SAMPLE NO.

TZ1-170418-01-STB-03

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40148598 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40148598003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	1.6		%	1	03/07/2018 06:41

SAMPLE NO.

TZ1-170418-01-STB-02

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40148598 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40148598004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	4.8		%	1	03/07/2018 06:41

SAMPLE NO.

TZ1-170418-01-STB-01

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Green Bay SDG No. : 40148598 Contract: HUDSON RIVER REMEDIAL

Lab Sample ID: 40148598005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Lipid	2.7		%	1	03/07/2018 06:41

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Green Bay SDG No. : 40148598 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	1653924	C
Lipid									<0.030	U

SAMPLE NO.

1653927DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40148598 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	2.7	2.1	25

SAMPLE NO.

1653928DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Green Bay SDG No. : 40148598 Contract: HUDSON RIVER REMEDIAL

Matrix: Tissue Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lipid	40	1.6	2.2	27

Prep Log Report

Batch Information: OEXT 282285 LIPIDS **Template Version: F-GB-O-145-Rev.00 (17Feb2015) LIPID**

Analysis Method	Pace Lipid	Analyzed By	AMC	Instrument	40BALL	Batch Notes	
Reviewed By	BLM	Reviewed By Date	05/01/2018 10:01				

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	**1653924**	Y	-0.005000	03/07/2018 06:41:31		10	5	1	0.9316	0.9315	M	
LIPID	BLANK	**1653925**	Y	-0.005000	03/07/2018 06:41:31		10	5	1	0.9331	0.933	M	
LIPID	PS	**40148598001**	Y	1.863	03/07/2018 06:41:31		10.0375	5	1	0.9321	0.9695	M	
LIPID	PS	**40148598002**	Y	0.3401	03/07/2018 06:41:31		9.9964	5	1	0.9322	0.939	M	
LIPID	PS	**40148598003**	Y	1.615	03/07/2018 06:41:31		10.0303	5	1	0.9311	0.9635	M	
LIPID	PS	**40148598004**	Y	4.808	03/07/2018 06:41:31		10.0362	5	1	0.9307	1.0272	M	
LIPID	RQS	**40148598005**	Y	2.671	03/07/2018 06:41:31		10.0161	5	1	0.9313	0.9848	M	
LIPID	DUP	**1653927**	Y	2.076	03/07/2018 06:41:31		9.9969	5	1	0.9346	0.9761	M	
LIPID	PS	**40148671001**	Y	1.520	03/07/2018 06:41:31		10.0022	5	1	0.9343	0.9647	M	
LIPID	PS	**40148671002**	Y	3.880	03/07/2018 06:41:31		9.9993	5	1	0.9353	1.0129	M	
LIPID	PS	**40148671003**	Y	0.5298	03/07/2018 06:41:31		10.0038	5	1	0.9329	0.9435	M	
LIPID	RQS	**40148671004**	Y	1.647	03/07/2018 06:41:31		9.9888	5	1	0.9328	0.9657	M	
LIPID	DUP	**1653928**	Y	2.152	03/07/2018 06:41:31		9.9904	5	1	0.9365	0.9795	M	
LIPID	PS	**40148671005**	Y	1.605	03/07/2018 06:41:31		10.0329	5	1	0.9322	0.9644	M	
LIPID	PS	**40148671006**	Y	6.228	03/07/2018 06:41:31		9.995	5	1	0.9322	1.0567	M	
LIPID	PS	**40148722001**	Y	2.478	03/07/2018 06:41:31		9.9867	5	1	0.9354	0.9849	M	
LIPID	PS	**40148722002**	Y	2.118	03/07/2018 06:41:31		9.9641	5	1	0.9316	0.9738	M	
LIPID	PS	**40148722003**	Y	3.594	03/07/2018 06:41:31		9.9603	5	1	0.9331	1.0047	M	
LIPID	PS	**40148722004**	Y	2.644	03/07/2018 06:41:31		9.9858	5	1	0.9324	0.9852	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	PS	**40148722005**	Y	2.339	03/07/2018 06:41:31		9.96	5	1	0.9329	0.9795	M	
LIPID	PS	**40148722006**	Y	2.337	03/07/2018 06:41:31		10.0363	5	1	0.9276	0.9745	M	
LIPID	PS	**40148722007**	Y	3.963	03/07/2018 06:41:31		10.0057	5	1	0.937	1.0163	M	
LIPID	PS	**40148722008**	Y	0.7466	03/07/2018 06:41:31		9.9787	5	1	0.9308	0.9457	M	
LIPID	MS	**1682000**	Y	2.478	03/07/2018 06:41:31		9.9892	5	1	.9346	0.9841	M	

40148598REV3

Client Name: GE
Project #: 40148598
Date/Time Removed to Thaw: 02-20-18
Date/Time Prepped: 02-21-18
Prepped by: CWN + JL + RM
Location: 40FRG21 / Room Temperature (circle one)

Pace Analytical™

Biota Homogenization Log (NYDOH Method)

Logbook: 4407

Sample ID	Sample Type (Fish, Eggs, etc.)	Scales/Skin Removed (Y/N)	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/I[3]	Fillet Weight (g)	Left/Both Fillet[1]?	Container Code[2]	Picture of Jars/Weight Taken? (Y/N)	Weight of homogenized Sample (g)	Composite Sample (> 1 per Sample ID) (Y/N)	Sample Comments
1	Fish	Y	F	Y	897.6	Y	F	208.6	Left / Both	9AG	Y	200.9	N	Robo
2	Fish	Y	F	Y	2421.4	Y	F	528.9	Left / Both	32AG	Y	514.3	N	Robo
3	Fish	Y	F	Y	2763.9	Y	M	598.5	Left / Both	32AG	Y	576.2	N	Robo
4	Fish	Y	F	Y	4047.8	Y	M	776.9	Left / Both	32AG	Y	837.2	N	Robo 866.2 fillet wt
5	Fish	Y	F	Y	5550.6	Y	M	1198.2	Left / Both	32AG	Y	1167.9	N	Robo 2 jars
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
					CWN	02-22-18			Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					
									Left / Both					

(1) If left fillet weight is under 40g, the right fillet in included in the sample weight.

(2) Note Container Type / Lot # using Codes Below:

Container Code	Container Size	Lot#
2CG	2 oz Clear Glass	
4AG	4 oz Amber Glass	
9AG	9 oz Amber Glass	F-7-212-04AB
32AG	32 oz Amber Glass	J-4-338-02AB

(3) M = Male, F = Female, I = Indeterminate

Reviewed By

Date 3/6/18

F-GB-O-153-REV.00 (08Feb2018)

Pace Analytical Services, LLC - Green Bay, WI