US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009C **Parameter:** PCB
Project Name: SKY VALLEY EDUCATION CENTER : PCB Splits
Project Officer: Michelle Mullin
Account Code: 20172018B10P501E50

Sample ID: 17104000
Type: Sample
Matrix: PUF
Container ID : N1
Sample Note: Start Time 8:25

Collected: 3/6/17 Prepped: 3/28/17
Received: 3/7/17
Released:
Reviewed:
Promised: 5/10/17

VERIFIED ___/___/___ _____

Analysis Seq : 7

Initial Amount: ~~1 mL~~ NA (For all samples, QC)
Final Amount: 2 mL
Dilution Factor: 1
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M032817A02-8082A-MINERVA-DWO-032817

Weight Basis: ~~Dry~~ NA
CR 4/3/17
Analyzed: 3/28/17 7:23 pm

Suffix:
%Solids: ~~*100~~
For all (Samples, QC)

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	86	%Rec		
2	11104282	PCB-1221	Target	0.050	ug	U	0.050ug
3	11141165	PCB-1232	Target	0.050	ug	U	0.050ug
4	12674112	PCB-1016	Target	0.050	ug	U	0.050ug
5	53469219	PCB-1242	Target	0.050	ug	U	0.050ug
6	12672296	PCB-1248	Target	0.050	ug	U	0.050ug
7	11097691	PCB-1254	Target	0.050	ug	U	0.050ug
8	11096825	PCB-1260	Target	0.050	ug	U	0.050ug
9	2051243	PCB Congener 209	Surrogate	88	%Rec		

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Multi Analyte Verification Report

Project Code: OCE-009C **Parameter:** PCB
Project Name: SKY VALLEY EDUCATION CENTER : PCB Splits
Project Officer: Michelle Mullin
Account Code: 20172018B10P501E50

Sample ID: 17104001
Type: Sample
Matrix: PUF
Container ID : N1
Sample Note: Start Time 7:50

Collected: 3/6/17 Prepped: 3/28/17
Received: 3/7/17

Released:
Reviewed:
Promised: 5/10/17

VERIFIED ___/___/___ _____

Analysis Seq : 8

Initial Amount: ~~1 mL~~ NA
Final Amount: 2 mL
Dilution Factor: 1
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M032817A02-8082A-MINERVA-DWO-032817

cl 4/3/17

Weight Basis: Dry
Analyzed: 3/28/17 7:47 pm

Suffix:
%Solids: * 100

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	78	%Rec		
2	11104282	PCB-1221	Target	0.050	ug	U	0.050ug
3	11141165	PCB-1232	Target	0.050	ug	U	0.050ug
4	12674112	PCB-1016	Target	0.050	ug	U	0.050ug
5	53469219	PCB-1242	Target	0.050	ug	U	0.050ug
6	12672296	PCB-1248	Target	0.050	ug	U	0.050ug
7	11097691	PCB-1254	Target	0.050	ug	U	0.050ug
8	11096825	PCB-1260	Target	0.050	ug	U	0.050ug
9	2051243	PCB Congener 209	Surrogate	84	%Rec		

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Multi Analyte Verification Report

Project Code: OCE-009C **Parameter:** PCB

Project Name: SKY VALLEY EDUCATION CENTER : PCB Splits

Project Officer: Michelle Mullin

Account Code: 20172018B10P501E50

Sample ID: 17104002

Type: Sample

Matrix: PUF

Container ID : N1

Sample Note: Start Time 7:35

Collected: 3/6/17 Prepped: 3/28/17

Received: 3/7/17

Released:

Reviewed:

Promised: 5/10/17

VERIFIED ___/___/___ _____

Analysis Seq : 9

Initial Amount: ~~1 mL~~ NA

Final Amount: 2 mL

Dilution Factor: 1

Weight Basis: Dry

Analyzed: 3/28/17 8:12 pm

Suffix:

%Solids: * 100

Method: 8082A Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-M032817A02-8082A-MINERVA-DWO-032817

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	83	%Rec		
2	11104282	PCB-1221	Target	0.050	ug	U	0.050ug
3	11141165	PCB-1232	Target	0.050	ug	U	0.050ug
4	12674112	PCB-1016	Target	0.050	ug	U	0.050ug
5	53469219	PCB-1242	Target	0.050	ug	U	0.050ug
6	12672296	PCB-1248	Target	0.050	ug	U	0.050ug
7	11097691	PCB-1254	Target	0.050	ug	U	0.050ug
8	11096825	PCB-1260	Target	0.050	ug	U	0.050ug
9	2051243	PCB Congener 209	Surrogate	90	%Rec		

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Multi Analyte Verification Report

Project Code: OCE-009C **Parameter:** PCB

Project Name: SKY VALLEY EDUCATION CENTER : PCB Splits

Project Officer: Michelle Mullin

Account Code: 20172018B10P501E50

Collected: 3/6/17 Prepped: 3/28/17

Received: 3/7/17

Released:

Reviewed:

Promised: 5/10/17

VERIFIED ___/___/___ _____

Sample ID: **17104003**

Type: Sample

Matrix: PUF

Container ID : N1

Sample Note: Start Time 7:11

Analysis Seq : 10

Initial Amount: ~~1~~ mL NA

Final Amount: 2 mL

Dilution Factor: 1

Method: 8082A Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-M032817A02-8082A-MINERVA-DWO-032817

CP 4/3/17

Weight Basis: Dry

Analyzed: 3/28/17 8:37 pm

Suffix:

%Solids: * 100

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	78	%Rec		
2	11104282	PCB-1221	Target	0.050	ug	U	0.050ug
3	11141165	PCB-1232	Target	0.050	ug	U	0.050ug
4	12674112	PCB-1016	Target	0.050	ug	U	0.050ug
5	53469219	PCB-1242	Target	0.050	ug	U	0.050ug
6	12672296	PCB-1248	Target	0.050	ug	U	0.050ug
7	11097691	PCB-1254	Target	0.050	ug	U	0.050ug
8	11096825	PCB-1260	Target	0.050	ug	U	0.050ug
9	2051243	PCB Congener 209	Surrogate	83	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009C **Parameter:** PCB

Project Name: SKY VALLEY EDUCATION CENTER : PCB Splits

Project Officer: Michelle Mullin

Account Code: 20172018B10P501E50

Sample ID: 17104004

Type: Sample

Matrix: PUF

Container ID : N1

Sample Note: Start Time 7:20

Collected: 3/6/17 Prepped: 3/28/17

Received: 3/7/17

Released:

Reviewed:

Promised: 5/10/17

VERIFIED ___/___/___ _____

Analysis Seq : 11

Initial Amount: ~~1 mL~~ NA CP 4/3/17

Final Amount: 2 mL

Dilution Factor: 1

Weight Basis: Dry

Analyzed: 3/28/17 9:01 pm

Suffix:

%Solids: * 100

Method: 8082A Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-M032817A02-8082A-MINERVA-DWO-032817

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	77	%Rec		
2	11104282	PCB-1221	Target	0.050	ug	U	0.050ug
3	11141165	PCB-1232	Target	0.050	ug	U	0.050ug
4	12674112	PCB-1016	Target	0.050	ug	U	0.050ug
5	53469219	PCB-1242	Target	0.050	ug	U	0.050ug
6	12672296	PCB-1248	Target	0.050	ug	U	0.050ug
7	11097691	PCB-1254	Target	0.050	ug	U	0.050ug
8	11096825	PCB-1260	Target	0.050	ug	U	0.050ug
9	2051243	PCB Congener 209	Surrogate	85	%Rec		

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Multi Analyte Verification Report

Project Code: OCE-009C **Parameter:** PCB **Sample ID:** **17104005**
Project Name: SKY VALLEY EDUCATION CENTER : PCB Splits **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** PUF
Account Code: 20172018B10P501E50 **Container ID :** N1
Sample Note: Start Time 6:55

Collected: 3/6/17 Prepped: 3/28/17 Released:
Received: 3/7/17 Reviewed:
Promised: 5/10/17

VERIFIED ___/___/___ _____ **Analysis Seq :** 12

Initial Amount: ~~1 mL~~ NA CP 4/3/17 **Weight Basis:** Dry **Suffix:**
Final Amount: 2 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 3/28/17 9:26 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M032817A02-8082A-MINERVA-DWO-032817

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	75	%Rec		
2	11104282	PCB-1221	Target	0.050	ug	U	0.050ug
3	11141165	PCB-1232	Target	0.050	ug	U	0.050ug
4	12674112	PCB-1016	Target	0.050	ug	U	0.050ug
5	53469219	PCB-1242	Target	0.050	ug	U	0.050ug
6	12672296	PCB-1248	Target	0.050	ug	U	0.050ug
8	11096825	PCB-1260	Target	0.050	ug	U	0.050ug
9	2051243	PCB Congener 209	Surrogate	83	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009C **Parameter:** PCB
Project Name: SKY VALLEY EDUCATION CENTER : PCB Splits
Project Officer: Michelle Mullin
Account Code: 20172018B10P501E50

Sample ID: 17104005
Type: Sample
Matrix: PUF
Container ID : N1
Sample Note: Start Time 6:55

Collected: 3/6/17 Prepped: 3/28/17
Received: 3/7/17

Released:
Reviewed:
Promised: 5/10/17

VERIFIED ___/___/___ _____

Analysis Seq : 19

Initial Amount: ~~1 mL~~ N/A **Weight Basis:** Dry **Suffix:**
Final Amount: 2 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 3/30/17 7:10 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M033017A19-8082A-MINERVA-DWO-033017

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
7	11097691	PCB-1254	Target	0.059	ug	J	0.050ug

VP
JT
4/3/17

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009C **Parameter:** PCB **Sample ID:** 17114000
Project Name: SKY VALLEY EDUCATION CENTER : PCB Splits **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** PUF
Account Code: 20172018B10P501E50 **Container ID :** N1
Sample Note: Start Time: 6:39; Repl

Collected: 3/13/17 Prepped: 3/28/17 Released:
Received: 3/15/17 Reviewed:
Promised: 5/10/17

VERIFIED ___/___/___ _____ **Analysis Seq :** 13

Initial Amount: ~~1 mL~~ NA **Weight Basis:** Dry **Suffix:**
Final Amount: 2 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 3/28/17 9:51 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M032817A02-8082A-MINERVA-DWO-032817

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	80	%Rec		
2	11104282	PCB-1221	Target	0.050	ug	U	0.050ug
3	11141165	PCB-1232	Target	0.050	ug	U	0.050ug
4	12674112	PCB-1016	Target	0.050	ug	U	0.050ug
5	53469219	PCB-1242	Target	0.050	ug	U	0.050ug
6	12672296	PCB-1248	Target	0.050	ug	U	0.050ug
8	11096825	PCB-1260	Target	0.050	ug	U	0.050ug
9	2051243	PCB Congener 209	Surrogate	82	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009C **Parameter:** PCB **Sample ID:** 17114000
Project Name: SKY VALLEY EDUCATION CENTER : PCB Splits **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** PUF
Account Code: 20172018B10P501E50 **Container ID :** N1
Sample Note: Start Time: 6:39; Repl

Collected: 3/13/17 Prepped: 3/28/17 Released:
Received: 3/15/17 Reviewed:
Promised: 5/10/17

VERIFIED ___/___/___ _____ **Analysis Seq :** 20

Initial Amount: ~~1 mL~~ NA **Weight Basis:** Dry **Suffix:**
Final Amount: 2 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 3/30/17 7:35 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M033017A19-8082A-MINERVA-DWO-033017

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
7	11097691	PCB-1254	Target	0.080	ug	J	0.050ug

cp 4/3/17

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009C **Parameter:** PCB **Sample ID:** 92O032817B1
Project Name: SKY VALLEY EDUCATION CENTER : PCB Splits **Type:** Blank
Project Officer: Michelle Mullin **Matrix:** PUF
Account Code: 20172018B10P501E50 **Container ID :**

Collected: Prepped: 3/28/17 Released:
Received: Reviewed:
Promised:
VERIFIED ___/___/___ _____ **Analysis Seq :** 3

Initial Amount: ~~1~~ mL N A CP 4/3/17 **Weight Basis:** Dry **Suffix:**
Final Amount: 2 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 3/28/17 5:44 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M032817A02-8082A-MINERVA-DWO-032817

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	82	%Rec		
2	11104282	PCB-1221	Target	0.050	ug	U	0.050ug
3	11141165	PCB-1232	Target	0.050	ug	U	0.050ug
4	12674112	PCB-1016	Target	0.050	ug	U	0.050ug
5	53469219	PCB-1242	Target	0.050	ug	U	0.050ug
6	12672296	PCB-1248	Target	0.050	ug	U	0.050ug
7	11097691	PCB-1254	Target	0.050	ug	U	0.050ug
8	11096825	PCB-1260	Target	0.050	ug	U	0.050ug
9	2051243	PCB Congener 209	Surrogate	84	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009C **Parameter:** PCB **Sample ID:** 92O032817B2
Project Name: SKY VALLEY EDUCATION CENTER : PCB Splits **Type:** Blank
Project Officer: Michelle Mullin **Matrix:** PUF
Account Code: 20172018B10P501E50 **Container ID :**

Collected: Prepped: 3/28/17 Released:
Received: Reviewed:
Promised:
VERIFIED ___/___/___ _____ **Analysis Seq :** 4

Initial Amount: ~~1 mL~~ NA **Weight Basis:** Dry **Suffix:**
Final Amount: 2 mL 4/3/17 **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 3/28/17 6:09 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M032817A02-8082A-MINERVA-DWO-032817

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	78	%Rec		
2	11104282	PCB-1221	Target	0.050	ug	U	0.050ug
3	11141165	PCB-1232	Target	0.050	ug	U	0.050ug
4	12674112	PCB-1016	Target	0.050	ug	U	0.050ug
5	53469219	PCB-1242	Target	0.050	ug	U	0.050ug
6	12672296	PCB-1248	Target	0.050	ug	U	0.050ug
7	11097691	PCB-1254	Target	0.050	ug	U	0.050ug
8	11096825	PCB-1260	Target	0.050	ug	U	0.050ug
9	2051243	PCB Congener 209	Surrogate	80	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009C **Parameter:** PCB **Sample ID:** 92O032817L1
Project Name: SKY VALLEY EDUCATION CENTER : PCB Splits **Type:** Lab Control Std
Project Officer: Michelle Mullin **Matrix:** PUF
Account Code: 20172018B10P501E50 **Container ID :**

Collected: Prepped: 3/28/17 Released:
Received: Reviewed:
Promised:
VERIFIED ___/___/___ _____ **Analysis Seq :** 5

Initial Amount: ~~1 mL~~ NA CP 4/3/17 **Weight Basis:** Dry **Suffix:**
Final Amount: 2 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 3/28/17 6:33 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M032817A02-8082A-MINERVA-DWO-032817

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	80	%Rec		
4	12674112	PCB-1016	Spike	88	%Rec		0.050ug
8	11096825	PCB-1260	Spike	90	%Rec		0.050ug
9	2051243	PCB Congener 209	Surrogate	84	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009C **Parameter:** PCB **Sample ID:** 92O032817L2
Project Name: SKY VALLEY EDUCATION CENTER : PCB Splits **Type:** Lab Control Std Dup.
Project Officer: Michelle Mullin **Matrix:** PUF
Account Code: 20172018B10P501E50 **Container ID :**

Collected: Prepped: 3/28/17 Released:
Received: Reviewed:
Promised:
VERIFIED ___/___/___ _____ **Analysis Seq :** 6

Initial Amount: ~~1~~ mL NA CR 4/3/17 **Weight Basis:** Dry **Suffix:**
Final Amount: 2 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 3/28/17 6:58 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M032817A02-8082A-MINERVA-DWO-032817

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	80	%Rec		
4	12674112	PCB-1016	Spike	80	%Rec		0.050ug
8	11096825	PCB-1260	Spike	87	%Rec		0.050ug
9	2051243	PCB Congener 209	Surrogate	88	%Rec		

- Batch Summaries, by analytical batch
    a. Analysis log (Macro – Print Analysis Log)
    b. Sequence
    c. IS/SS Summaries (ConCal – QA Check Rpt)

R10 Organics Data Package Checklist		
Project: Sky Valley Education Center		**Project Code:** OCE-009C
Parameter: PCB		**SOP(s):** Or_P3541, Or_8082A
Analyst: DWOOD		**EPA Reviewer:** CPACE
		Comments/Deficiencies:
	1. Multi-anlayte verification reports	
x	*Present and correct for each sample, including QC*	
	2. Batch summaries	
x	*Analysis log (method indicated and initialed)*	
n/a	*Internal Standard/Surrogate Spike Summaries, if applicable*	
	3. BFB/DFTPP tune, *if applicable*	
n/a	*Tune summary reports (meets SOP ion abundance and 12hr criteria)*	
	4. Initial Calibration	Complete 1260 Initial Calibration with PUF IDOC package 3/27/17
x	*Calibration report (meets SOP criteria)*	
x	*RRF report, if applicable (meets SOP criteria)*	
x	*%Difference report (meets SOP criteria)*	
x	*Second source verification (meets SOP criteria)*	
x	*Quantitation reports (detailed)*	
x	*Compound retention time/identification verified*	
	5. Continuing Calibration	
x	*Continuing calibration %D report (meets SOP criteria)*	
x	*Continuing calibration RRF report, if applicable (meets SOP criteria)*	
x	*Quantitation reports (detailed)*	
x	*Compound retention time/identification verified*	
	6. Samples	
x	*Sample results summary*	
x	*Quantitation reports (detailed)*	
x	*Compound retention time/identification verified*	
	7. Blanks	
x	*Sample results summary (meets SOP criteria)*	
x	*Quantitation reports (detailed)*	

	8. LCS/LCSD	
x	*LCS/LCSD summary (meets SOP criteria)*	
x	*LCS/LCSD meets QAPP criteria*	
x	*Sample results summary*	
x	*Quantitation reports (detailed)*	
	9. MS/MSD, *if applicable*	
n/a	*MS/MSD summary (meets SOP criteria)*	
n/a	*MS/MSD meets QAPP criteria*	
n/a	*Sample results summary*	
n/a	*Quantitation reports (detailed)*	
	10. Duplicates, *if applicable*	
n/a	*Duplicates summary (meets SOP criteria)*	
n/a	*Duplicates meets QAPP criteria*	
n/a	*Sample results summary*	
n/a	*Quantitation reports (detailed)*	
	11. Surrogates	
x	*Surrogates (meets SOP criteria)*	
	12. Internal Standards, *if applicable*	
n/a	*Internal Standards (meets SOP criteria)*	
	13. Supporting data	
x	*Extraction documentation*	
x	*Standards documentation*	
x	*Chain-of-Custodies*	
	14. Supplemental Data	
n/a	*IDOC/LOD/LOQ*	
x	*Other runs not reported*	
x	**15. Archival Disk**	
Corrective Action Narrative initiated:___Yes___**No**		No

Additional Comments:

Analysis Log Method: 8082A Analyst: DWOOD Initial: DW

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
28 Mar 2017 4:55 pm	M032817a01.D	87PCB102416C	Instrument Blank 100pg/ul	.
28 Mar 2017 5:19 pm	M032817a02.D	87PCB062716I	PCB 1016/1260 Cont Cal 100 pg/uL	.
28 Mar 2017 5:44 pm	M032817a03.D	92O032817B1	Sky Valley PCB PUF 2mL fv	.
28 Mar 2017 6:09 pm	M032817a04.D	92O032817B2	Sky Valley PCB PUF 2mL fv	.
28 Mar 2017 6:33 pm	M032817a05.D	92O032817L1	Sky Valley PCB PUF 2mL fv	.
28 Mar 2017 6:58 pm	M032817a06.D	92O032817L2	Sky Valley PCB PUF 2mL fv	.
28 Mar 2017 7:23 pm	M032817a07.D	17104000	Sky Valley PCB PUF 2mL fv	.
28 Mar 2017 7:47 pm	M032817a08.D	17104001	Sky Valley PCB PUF 2mL fv	.
28 Mar 2017 8:12 pm	M032817a09.D	17104002	Sky Valley PCB PUF 2mL fv	.
28 Mar 2017 8:37 pm	M032817a10.D	17104003	Sky Valley PCB PUF 2mL fv	.
28 Mar 2017 9:01 pm	M032817a11.D	17104004	Sky Valley PCB PUF 2mL fv	.
28 Mar 2017 9:26 pm	M032817a12.D	17104005	Sky Valley PCB PUF 2mL fv	.
28 Mar 2017 9:51 pm	M032817a13.D	17114000	Sky Valley PCB PUF 2mL fv	.
28 Mar 2017 10:15 pm	M032817a14.D	87PCB102416C	Instrument Blank 100pg/ul	.
28 Mar 2017 10:40 pm	M032817a15.D	87PCB062716I	PCB 1016/1260 Cont Cal 100 pg/uL	.
28 Mar 2017 11:05 pm	M032817a16.D	87PCB062716I	PCB 1016/1260 Cont Cal 100 pg/uL	.

Analysis Log Method: 8082A Analyst: DWOOD Initial: [illegible]

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
30 Mar 2017 9:29 am	M033017a01.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 9:54 am	M033017a02.D	87PCB081916A	PCB 1242 ICAL 25 pg/uL	.
30 Mar 2017 10:18 am	M033017a03.D	87PCB081916B	PCB 1242 ICAL 50 pg/uL	.
30 Mar 2017 10:43 am	M033017a04.D	87PCB081916C	PCB 1242 ICAL 100 pg/uL	.
30 Mar 2017 11:56 am	M033017a05.D	87PCB081916D	PCB 1242 ICAL 250 pg/uL	.
30 Mar 2017 12:20 pm	M033017a06.D	87PCB081916E	PCB 1242 ICAL 500 pg/uL	.
30 Mar 2017 12:45 pm	M033017a07.D	87PCB081916F	PCB 1242 ICAL 1000 pg/uL	.
30 Mar 2017 13:09 pm	M033017a08.D	87PCB110116C	PCB 1242 SSV Std 100pg/uL	.
30 Mar 2017 13:34 pm	M033017a09.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 13:59 pm	M033017a10.D	87PCB083016A	PCB 1254 ICAL 25 pg/uL	.
30 Mar 2017 15:04 pm	M033017a11.D	87PCB083016B	PCB 1254 ICAL 50 pg/uL	.
30 Mar 2017 15:28 pm	M033017a12.D	87PCB083016C	PCB 1254 ICAL 100 pg/uL	.
30 Mar 2017 15:53 pm	M033017a13.D	87PCB083016D	PCB 1254 ICAL 250 pg/uL	.
30 Mar 2017 16:18 pm	M033017a14.D	87PCB083016E	PCB 1254 ICAL 500 pg/uL	.
30 Mar 2017 16:42 pm	M033017a15.D	87PCB083016F	PCB 1254 ICAL 1000 pg/uL	.
30 Mar 2017 17:07 pm	M033017a16.D	87PCB110116E	PCB 1254 Std 100pg/uL	.
30 Mar 2017 17:32 pm	M033017a17.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 17:56 pm	M033017a18.D	87PCB081916C	PCB 1242 Cont Cal 100 pg/uL	.
30 Mar 2017 18:21 pm	M033017a19.D	87PCB083016C	PCB 1254 Cont Cal 100 pg/uL	.
30 Mar 2017 18:45 pm	M033017a20.D	17104001	Sky Valley PCB PUF 2mL fv	.
30 Mar 2017 19:10 pm	M033017a21.D	17104005	Sky Valley PCB PUF 2mL fv	.
30 Mar 2017 19:35 pm	M033017a22.D	17114000	Sky Valley PCB PUF 2mL fv	.
30 Mar 2017 19:59 pm	M033017a23.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 20:24 pm	M033017a24.D	87PCB081916C	PCB 1242 Cont Cal 100 pg/uL	.
30 Mar 2017 20:49 pm	M033017a25.D	87PCB083016C	PCB 1254 Cont Cal 100 pg/uL	.

- ICAL Packet
  a. WWCAL (COD, %D summaries) (@Cmd Line – WWCAL)
  b. Macro Reports (Macro – ICAL Reports)
     i. Residual summary (-Print Accuracy)
     ii. Macro COD/%D report (- Include RF Report)
     iii. Accuracy of RTs (- Include RT)
     iv. Curves (- Print Curves)
  c. Individual Standards comprising curve
     i. Quan Report (Quant – Generate Report – Summary)
     ii. Peak Graphics (@Cmd Line – Thumbnail or Multithumb)
  d. SSCV
     i. %D Summary Report (Custom/Excel Report)
     ii. Quan Report (Quant – Generate Report – Summary)
     iii. Peak Graphics (@Cmd Line – Thumbnail)

Analysis Log Method: 8082A Analyst: DWOOD Initial: [illegible]

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
21 Mar 2017 3:40 pm	M032117a01.D	10161260condition5000	condition 1016/1260 2500 pg/uL	
21 Mar 2017 4:04 pm	M032117a02.D	87PCB102416C	Instrument Blank 100pg/ul	
21 Mar 2017 4:29 pm	M032117a03.D	87PCB062716B	PCB 1016/1260 ICAL 25 pg/uL	
21 Mar 2017 4:54 pm	M032117a04.D	87PCB062716C	PCB 1016/1260 ICAL 50 pg/uL	
21 Mar 2017 5:18 pm	M032117a05.D	87PCB062716I	PCB 1016/1260 ICAL 100 pg/uL	
21 Mar 2017 5:43 pm	M032117a06.D	87PCB062716E	PCB 1016/1260 ICAL 250 pg/uL	
21 Mar 2017 6:08 pm	M032117a07.D	87PCB062716F	PCB 1016/1260 ICAL 500 pg/uL	
21 Mar 2017 6:32 pm	M032117a08.D	87PCB062716G	PCB 1016/1260 ICAL 1000 pg/uL	
21 Mar 2017 6:57 pm	M032117a09.D	87PCB062716H	PCB 1016/1260 ICAL 2500 pg/uL	
21 Mar 2017 7:22 pm	M032117a10.D	87PCB081916I	SSV 1016 100pg/uL	
21 Mar 2017 7:46 pm	M032117a11.D	87PCB081916K	SSV 1260 100pg/uL	
21 Mar 2017 8:11 pm	M032117a12.D	87PCB110116A	SSV 1221 200pg/uL	
21 Mar 2017 8:36 pm	M032117a13.D	87PCB110116B	SSV 1232 100pg/uL	
21 Mar 2017 9:00 pm	M032117a14.D	87PCB110116C	SSV 1242 100pg/uL	
21 Mar 2017 9:25 pm	M032117a15.D	87PCB110116D	SSV 1248 100pg/uL	
21 Mar 2017 9:50 pm	M032117a16.D	87PCB110116E	SSV 1254 100pg/uL	

Calibration Status Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M032117PCB1260.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Fri Mar 24 09:15:25 2017
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	2500	250	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a09.D
2	1000	100	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a08.D
3	500	50	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a07.D
4	250	25	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a06.D
5	100	10	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a05.D
6	50	5	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a04.D
7	25	3	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a03.D

#	ID	Update Time	Quant Time	Acquisition Time
1	2500	Mar 24 09:12 2017	Mar 24 09:07 2017	21 Mar 2017 6:57 pm
2	1000	Mar 24 09:12 2017	Mar 24 09:07 2017	21 Mar 2017 6:32 pm
3	500	Mar 24 09:12 2017	Mar 24 09:07 2017	21 Mar 2017 6:08 pm
4	250	Mar 24 09:12 2017	Mar 24 09:07 2017	21 Mar 2017 5:43 pm
5	100	Mar 24 09:12 2017	Mar 24 09:07 2017	21 Mar 2017 5:18 pm
6	50	Mar 24 09:12 2017	Mar 24 09:07 2017	21 Mar 2017 4:54 pm
7	25	Mar 24 09:12 2017	Mar 24 09:08 2017	21 Mar 2017 4:29 pm

032117PCB1260.M Fri Mar 24 09:38:45 2017

Compound List Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M032117PCB1260.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Fri Mar 24 09:15:25 2017
Response Via : Initial Calibration

Total Cpnds : 25

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	tmx (1)	6.986	1.000	L	H	R
2	L1	1016 -1	7.596	1.000	Q	H	R
3	L1	1016-2	8.659	1.000	L	H	R
4	L1	1016-3	9.314	1.000	L	H	R
5	L1	1016-4	9.457	1.000	L	H	R
6	L1	1016-5	9.560	1.000	Q	H	R
7	L2	1260-1	12.501	1.000	L	H	R
8	L2	1260-2	12.937	1.000	L	H	R
9	L2	1260-3	13.486	1.000	L	H	R
10	L2	1260-4	15.335	1.000	L	H	R
11	L2	1260-5	16.497	1.000	L	H	R
12	S	dcb	17.785	1.000	L	H	R
13	L2	Signal #2	0.000	1.000	L	H	R
14	S	tmx (1) #2	4.799	1.000	L	H	R
15	L1	1016 -1 #2	5.343	1.000	L	H	R
16	L1	1016-2 #2	5.807	1.000	Q	H	R
17	L1	1016-3 #2	6.421	1.000	L	H	R
18	L1	1016-4 #2	6.596	1.000	L	H	R
19	L1	1016-5 #2	6.680	1.000	L	H	R
20	L2	1260-1 #2	8.940	1.000	L	H	R
21	L2	1260-2 #2	9.377	1.000	L	H	R
22	L2	1260-3 #2	9.821	1.000	L	H	R
23	L2	1260-4 #2	10.922	1.000	L	H	R
24	L2	1260-5 #2	12.463	1.000	L	H	R
25	S	dcb #2	13.284	1.000	L	H	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

032117PCB1260.M Fri Mar 24 09:38:33 2017

ICAL Series	M032117a09.D		through	M032117a03.D			
Last Calibration Update	Fri Mar 24 09:15:25 2017						
	2500.000	1000.000	500.000	250.000	100.000	50.000	25.000
Analyte	%Difference from expected						
tmx (1)	-6.0	-4.6	3.9	9.4	-1.3	-1.6	0.2
1016 -1		1.4	-4.8	6.2	-3.1	0.2	0.3
1016-2		-12.1	-2.6	9.0	4.9	5.1	-4.2
1016-3		-10.2	-2.4	8.0	4.1	3.8	-3.3
1016-4		-9.9	-3.7	8.5	4.1	4.9	-3.9
1016-5		3.2	-4.8	2.6	-1.3	2.0	-0.8
1260-1		-11.0	-1.7	9.2	2.7	4.1	-3.3
1260-2		-7.8	-1.8	7.0	0.2	5.8	-3.3
1260-3		-8.2	-1.1	7.9	0.5	3.1	-2.2
1260-4		-9.9	-4.0	8.1	4.1	6.3	-4.54
1260-5		-11.1	-2.3	9.9	3.8	2.4	-2.7
dcb	-6.3	-8.4	2.0	7.8	4.7	4.0	-3.8
Signal #2							
tmx (1) #2	-5.0	3.3	9.9	***20.5***	1.3	-9.0	***-21.0***
1016 -1 #2		-10.1	-1.5	10.5	1.4	1.6	-1.9
1016-2 #2		-1.4	-0.6	7.9	-6.1	-1.5	1.6
1016-3 #2		-6.7	0.4	12.5	-4.8	-3.1	1.6
1016-4 #2		-7.6	0.6	9.4	-1.0	-1.9	0.4
1016-5 #2		-6.7	0.0	10.9	-2.6	-2.6	1.1
1260-1 #2		-9.2	-0.1	10.4	-0.2	-0.3	-0.6
1260-2 #2		-7.4	1.3	11.2	-3.4	-3.1	1.4
1260-3 #2		-4.5	1.5	11.0	-4.7	-6.7	3.5
1260-4 #2		-6.1	0.3	11.5	-1.9	-6.7	2.8
1260-5 #2		-2.1	-0.4	11.5	-6.3	-6.4	3.7
dcb #2	-8.3	-3.6	2.3	12.4	0.3	-3.8	0.6

ICAL Series M032117a09.D through M032117a03.D
Last Calibration Update Fri Mar 24 09:15:25 2017

	Concentration		2500.000	1000.000	500.000	250.000	100.000	50.000	25.000
1	0 tmx (1)		235.0539	95.4092	51.9685	27.34734	9.869684	4.918206	2.504571
2	0 1016 -1	QUAD		1014.217	476.2155	265.4037	96.88607	50.10171	25.06739
3	0 1016-2			878.5577	486.907	272.5382	104.9191	52.5251	23.9445
4	0 1016-3			898.0657	487.9404	270.1087	104.1481	51.87967	24.16362
5	0 1016-4			901.3421	481.4486	271.2139	104.057	52.46383	24.02625
6	0 1016-5	QUAD		1032.312	476.0044	256.5128	98.67061	51.02264	24.8068
7	0 1260-1			889.5814	491.5768	272.9375	102.7463	52.04769	24.17706
8	0 1260-2			922.0071	491.1314	267.4277	100.1753	52.88459	24.16457
9	0 1260-3			917.776	494.5895	269.8631	100.4824	51.53214	24.45303
10	0 1260-4			900.5675	480.0587	270.1711	104.0735	53.16699	23.86391
11	0 1260-5			889.4045	488.5241	274.7255	103.8463	51.17731	24.31585
12	0 dcb		234.2393	91.64516	50.99901	26.94133	10.47	5.19755	2.406126
13	0 Signal #2								
14	0 tmx (1) #2		237.4834	103.2973	54.93838	30.12578	10.12948	4.549919	1.97592
15	0 1016 -1 #2			898.978	492.7097	276.1788	101.3527	50.79576	24.53605
16	0 1016-2 #2	QUAD		985.8499	497.2144	269.8141	93.94666	49.23244	25.38892
17	0 1016-3 #2			932.7891	502.2162	281.2123	95.24723	48.45922	25.40648
18	0 1016-4 #2			924.3783	502.9453	273.6079	99.03145	49.04111	25.10409
19	0 1016-5 #2			933.4138	499.7577	277.3332	97.36236	48.67667	25.26458
20	0 1260-1 #2			908.2538	499.3963	275.9693	99.84579	49.82632	24.85213
21	0 1260-2 #2			925.6302	506.4963	278.0462	96.64097	48.4403	25.34975
22	0 1260-3 #2			954.5374	507.3074	277.5151	95.29976	46.66469	25.86265
23	0 1260-4 #2			939.4372	501.6127	278.7197	98.13604	46.65721	25.69878
24	0 1260-5 #2			979.0679	497.9356	278.847	93.66189	46.80185	25.92542
25	0 dcb #2		229.1644	96.43812	51.17251	28.10481	10.02914	4.810143	2.515984

Response Factor Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M032117PCB1260.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Fri Mar 24 09:15:25 2017
Response Via : Initial Calibration

Calibration Files
2500 =M032117a09.D 1000 =M032117a08.D 500 =M032117a07.D
250 =M032117a06.D 100 =M032117a05.D 50 =M032117a04.D

	Compound	2500	1000	500	250	100	50	Avg		%RSD
1)	S1 tmx (1)	2.482	2.526	2.764	2.934	2.732	2.855	2.780	E4	8.51
2)	L1 1016 -1		3.907	4.285	5.095	5.078	5.675	5.086	E2	18.26
3)	L1 1016-2		4.969	5.571	6.361	6.557	7.271	6.483	E2	17.73
4)	L1 1016-3		0.639	0.702	0.792	0.813	0.891	0.807	E3	16.17
5)	L1 1016-4		4.272	4.606	5.268	5.332	5.825	5.270	E2	14.30
6)	L1 1016-5		1.328	1.549	1.815	1.873	2.020	1.780	E2	16.35
7)	L2 1260-1		0.957	1.071	1.215	1.236	1.398	1.249	E3	18.79
8)	L2 1260-2		1.171	1.262	1.401	1.406	1.625	1.446	E3	16.27
9)	L2 1260-3		1.184	1.289	1.432	1.421	1.594	1.454	E3	15.23
10)	L2 1260-4		0.811	0.874	1.000	1.023	1.139	1.014	E3	15.64
11)	L2 1260-5		5.115	5.676	6.495	6.531	7.080	6.492	E2	15.95
12)	S1 dcb	1.369	1.350	1.519	1.639	1.705	1.878	1.656	E4	16.98

ignal #2 Calibration Files
2500 =M032117a09.D 1000 =M032117a08.D 500 =M032117a07.D
250 =M032117a06.D 100 =M032117a05.D 50 =M032117a04.D

	Compound	2500	1000	500	250	100	50	Avg		%RSD
1)	S2 tmx (1)	3.893	4.254	4.559	5.064	4.495	4.433	4.480	E4	8.04
2)	L1 1016 -1		7.246	7.982	9.024	8.551	9.001	8.565	E2	9.80
3)	L1 1016-2		1.195	1.323	1.501	1.372	1.487	1.416	E3	10.63
4)	L1 1016-3		1.811	1.952	2.189	1.866	1.917	1.964	E3	6.94
5)	L1 1016-4		1.027	1.119	1.222	1.122	1.136	1.140	E3	6.28
6)	L1 1016-5		7.501	8.043	8.946	7.924	8.034	8.167	E2	6.22
7)	L2 1260-1		1.638	1.806	2.006	1.849	1.900	1.867	E3	7.40
8)	L2 1260-2		2.391	2.619	2.881	2.521	2.555	2.615	E3	6.52
9)	L2 1260-3		1.931	2.049	2.236	1.898	1.825	1.984	E3	7.25
10)	L2 1260-4		3.148	3.356	3.717	3.226	2.994	3.269	E3	7.60
11)	L2 1260-5		8.019	8.153	9.125	7.640	7.602	8.150	E2	6.88
12)	S2 dcb	2.185	2.302	2.447	2.697	2.439	2.393	2.438	E4	7.08

(#) = Out of Range ### Number of calibration levels exceeded format ###

032117PCB1260.M Fri Mar 24 09:38:59 2017

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.. 2.D
perator : DWOOD
nstrument : Minerva
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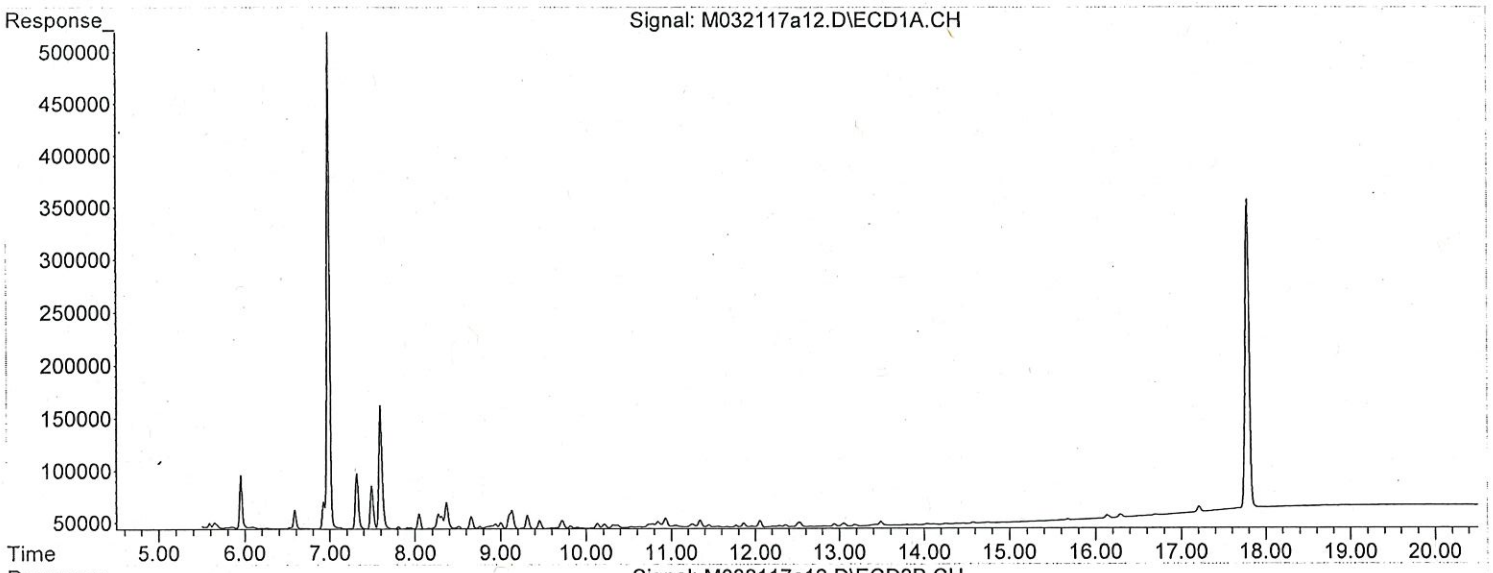

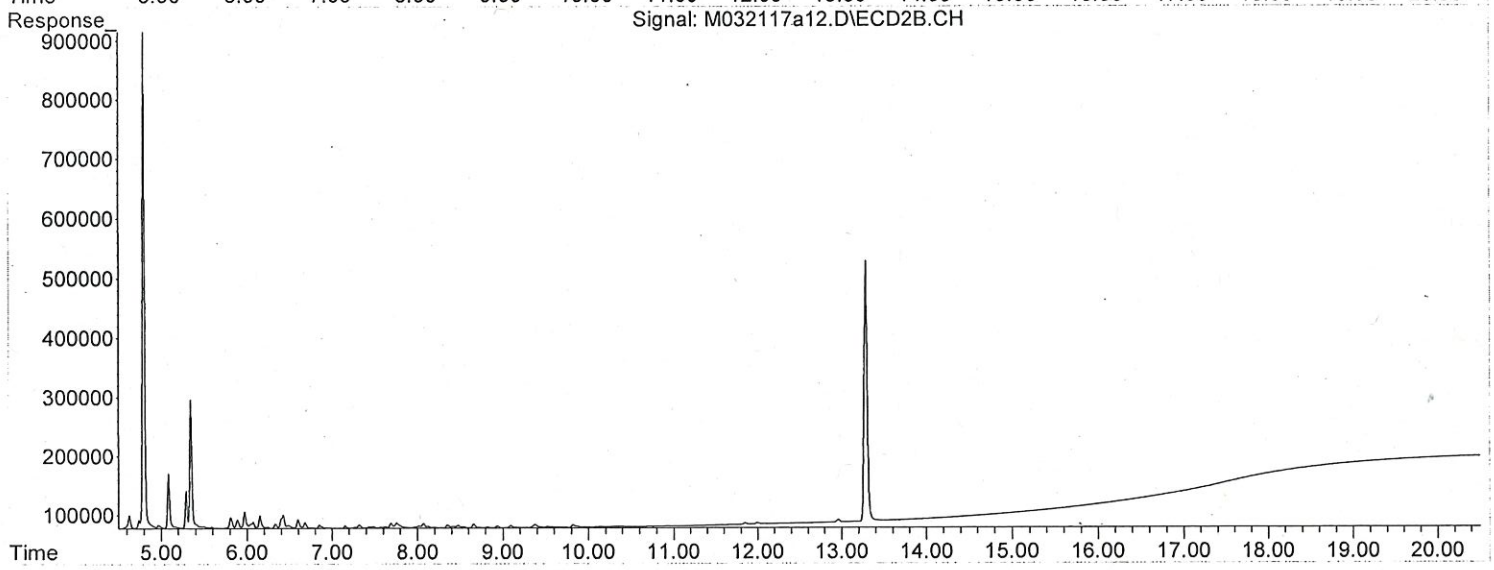

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.. 3.D
perator : DWOOD
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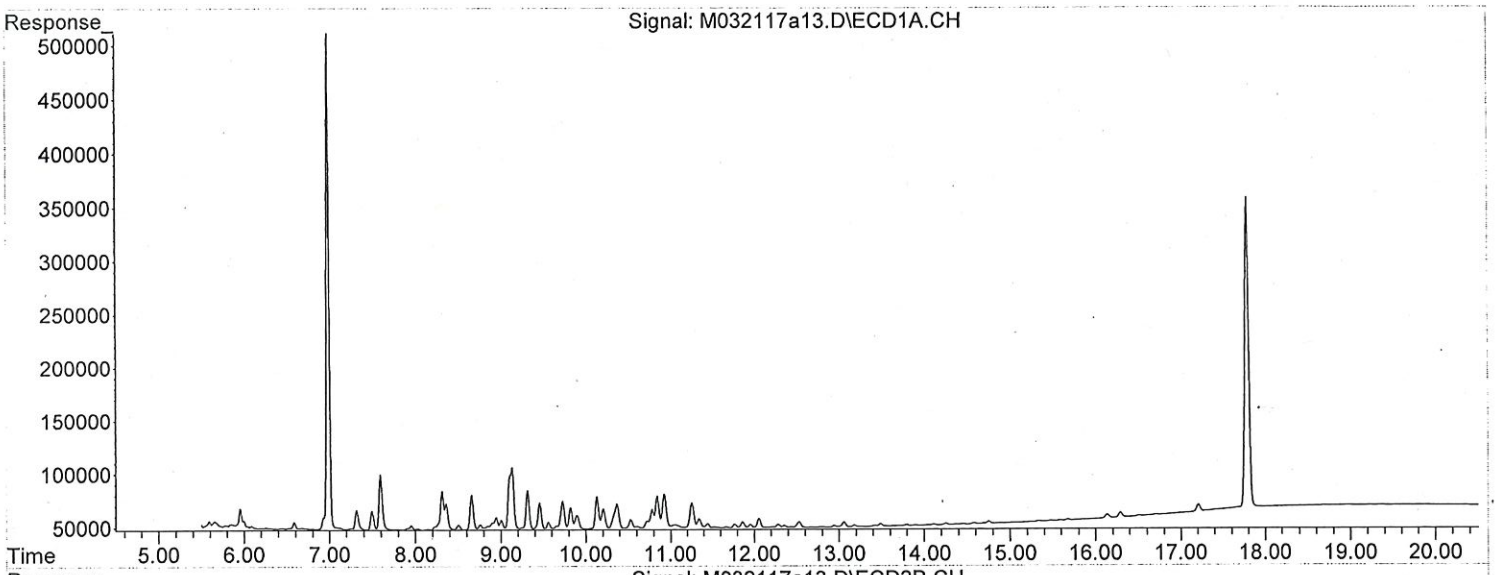

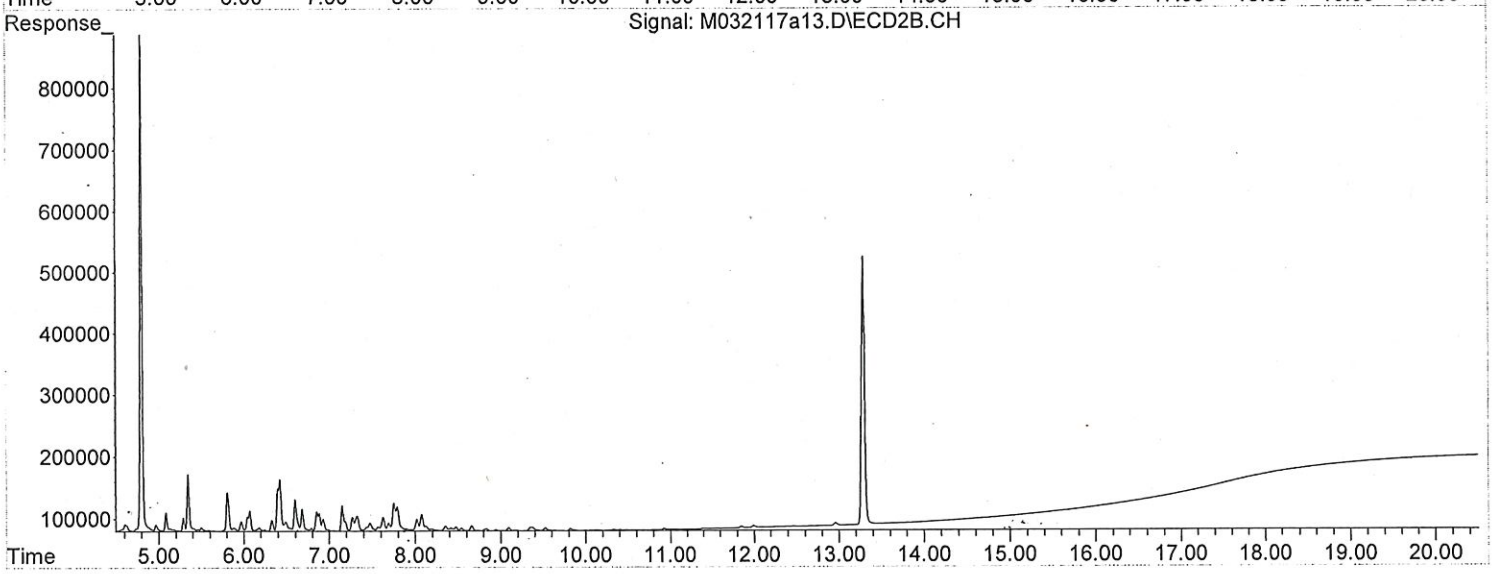

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.. 4.D
perator : DWOOD
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cquired : 21 Mar 2017 9:00 pm using AcqMethod M012116PCB2B.M
ample Name: 87PCB110116C
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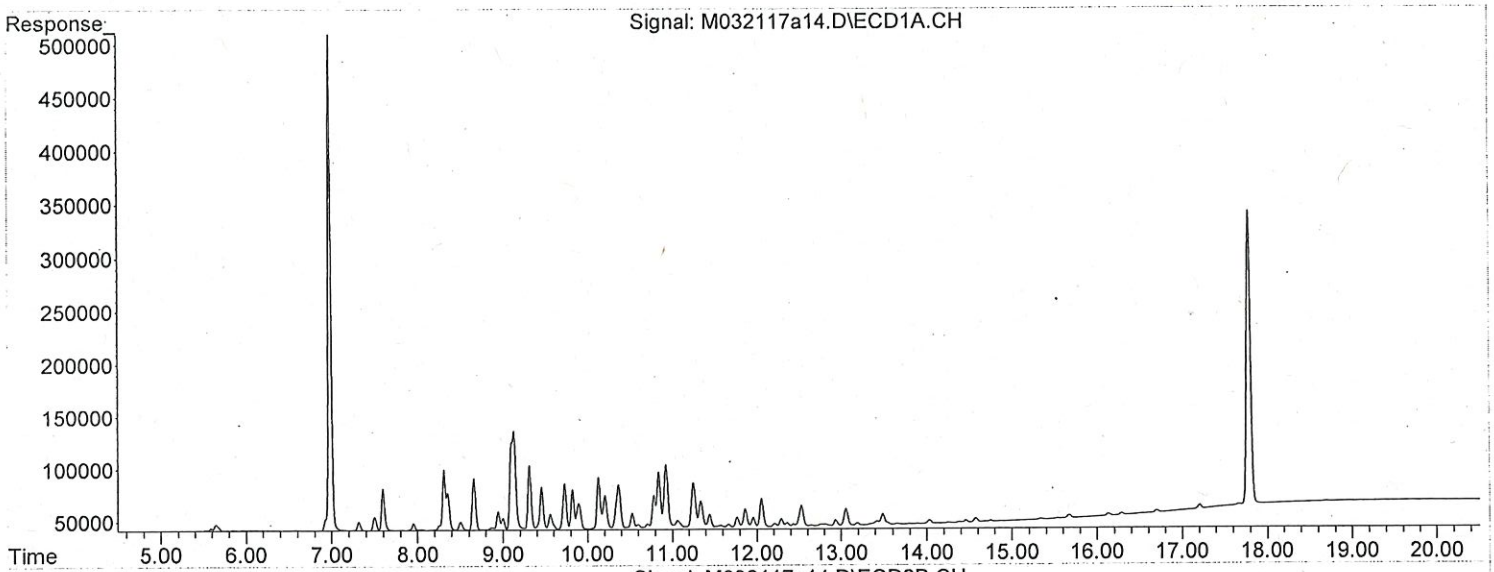

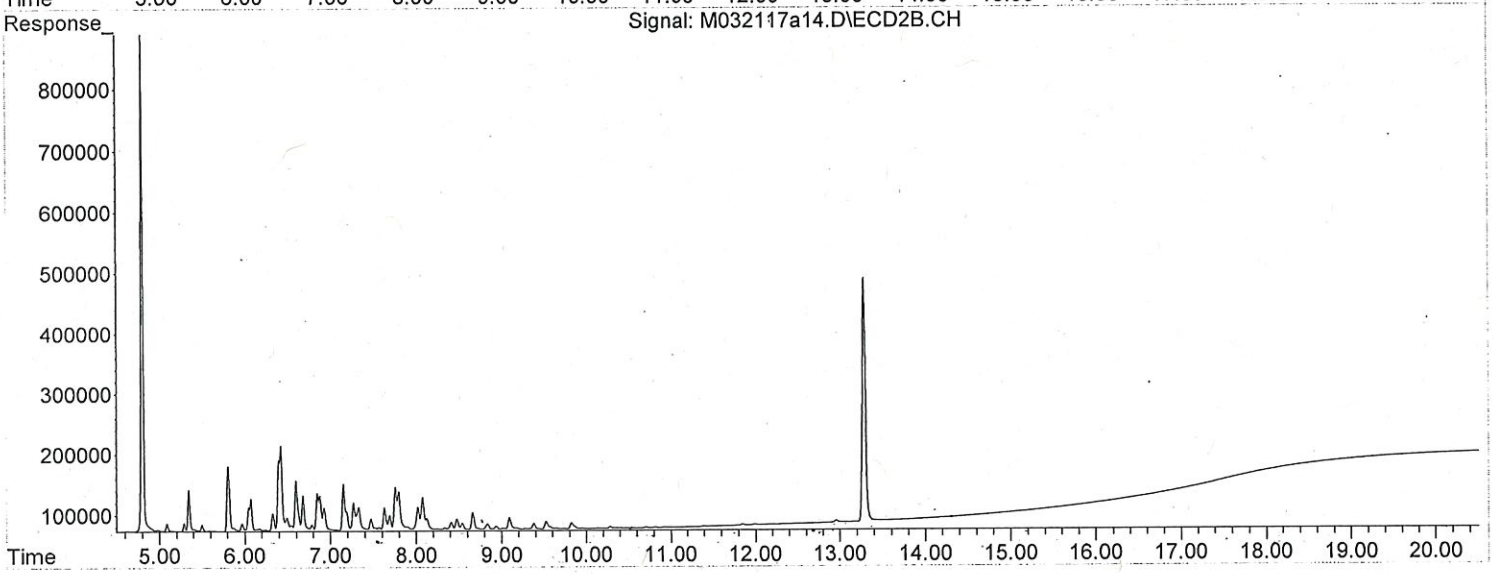

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.. 5.D
perator : DWOOD
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ample Name: 87PCB110116D
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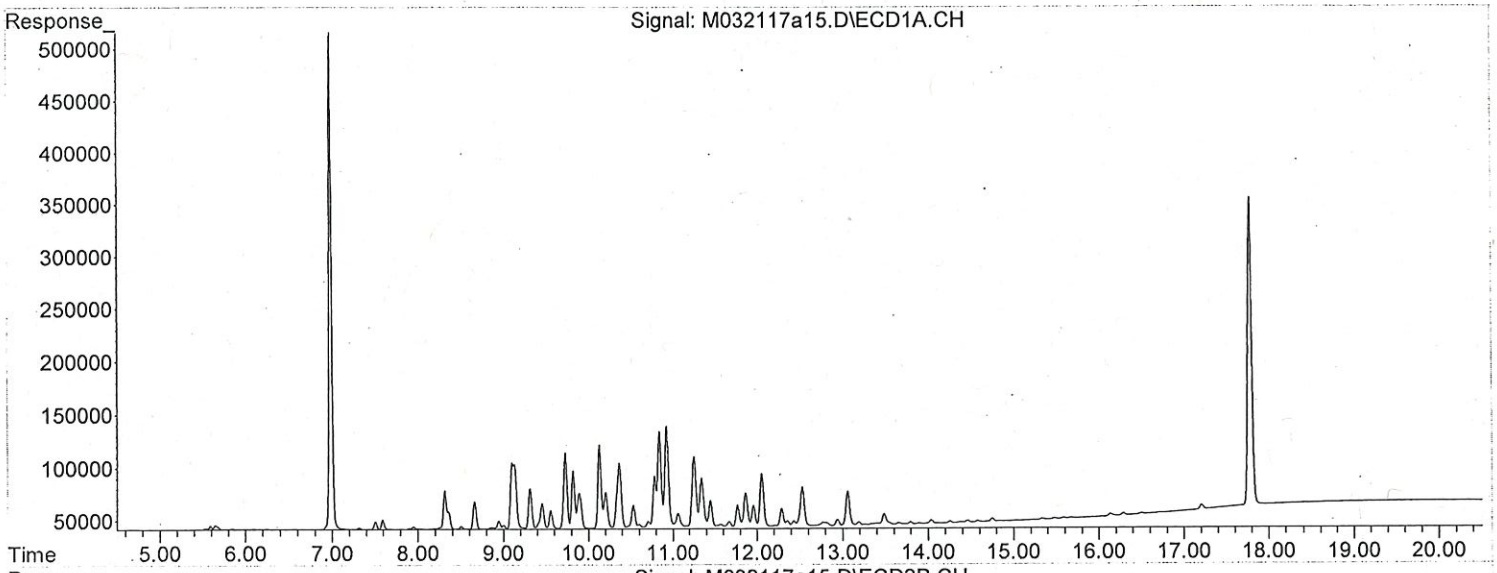

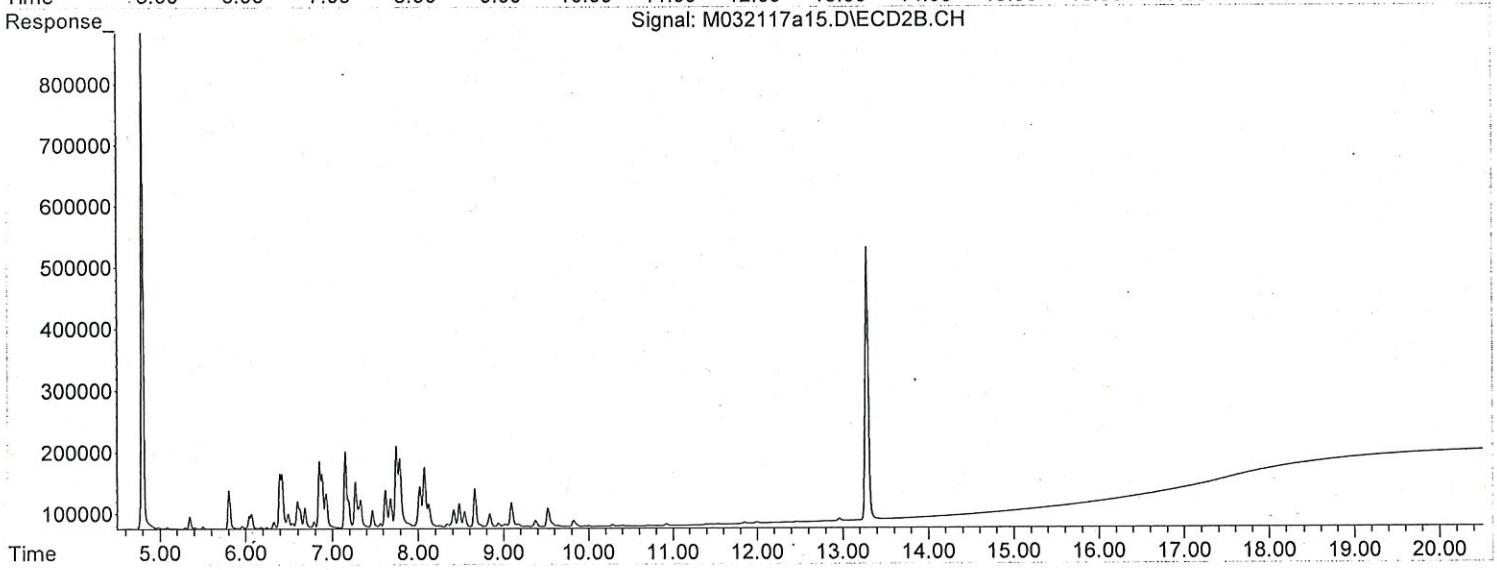

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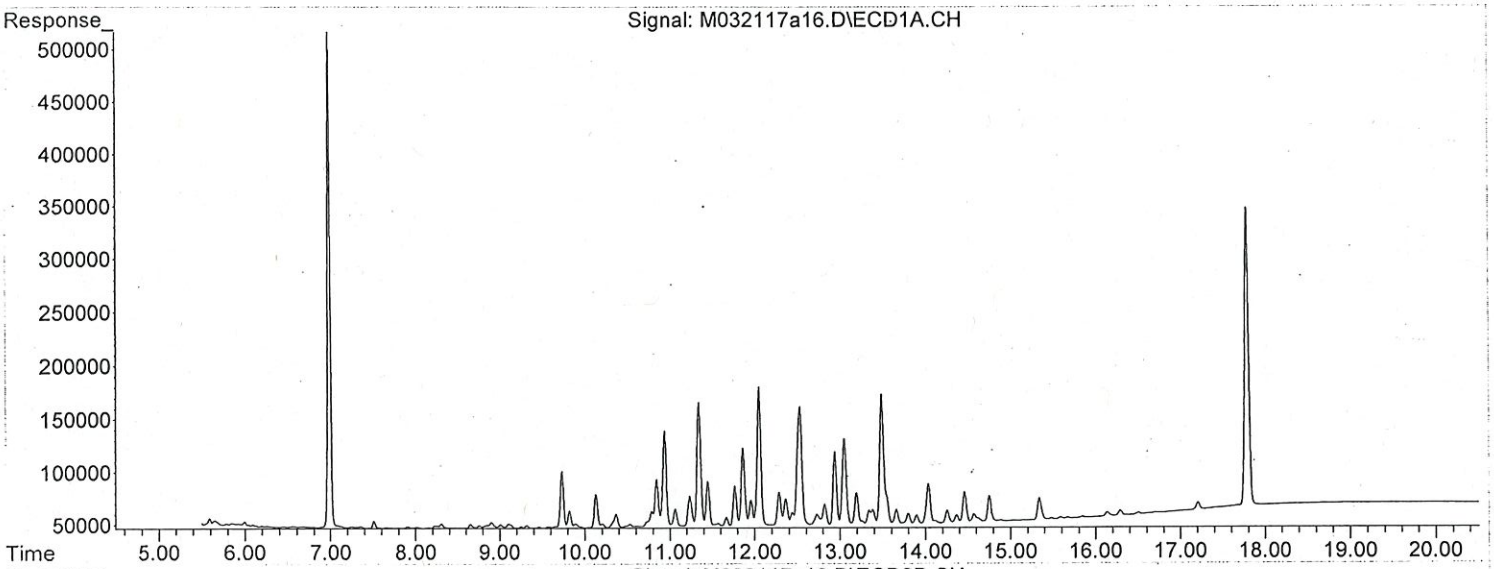
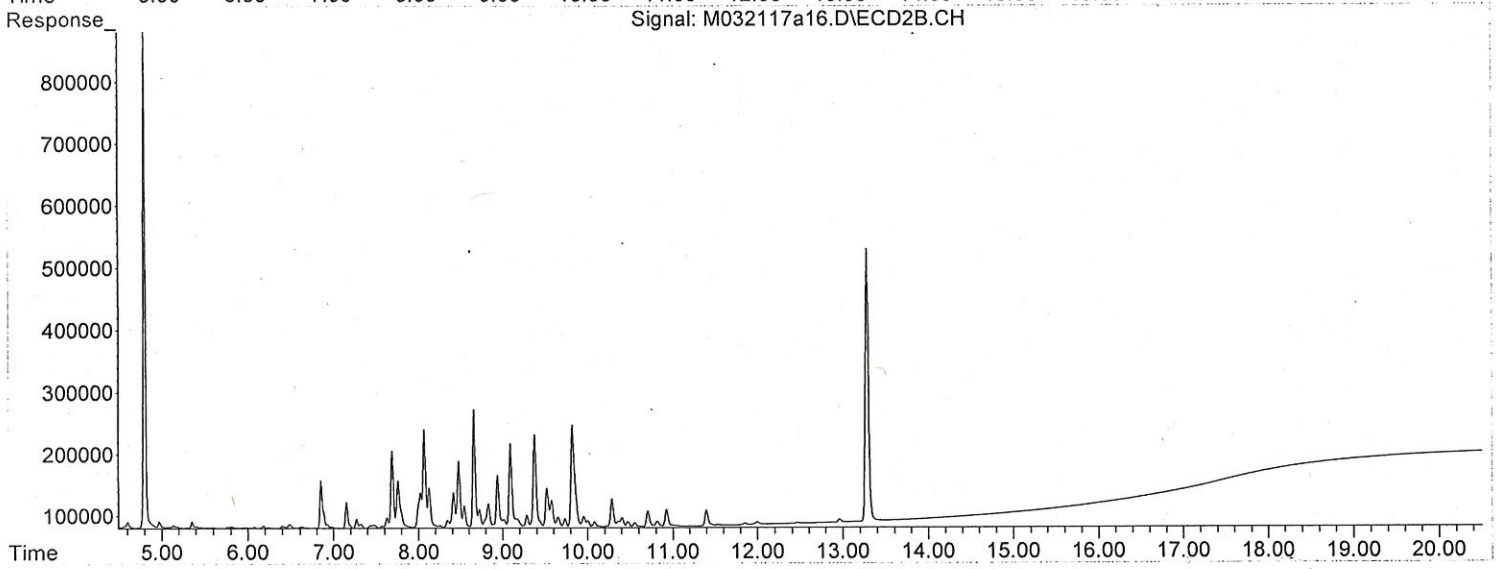
.. 6.D
perator : DWOOD
nstrument : Minerva
cquired : 21 Mar 2017 9:50 pm using AcqMethod M012116PCB2B.M
ample Name: 87PCB110116E
isc Info : SSV 1254 100pg/uL





PCB SSV Report

Data File....: M032117a11.D
Dataname.....: 87PCB081916K
Analyzed.....: 03/21/2017 19:46

Analyst.....: DWOOD
Instrument.....: Minerva
Analysis Method: 8082A

SSV Level..: 100 pg/uL
ICAL Date..: 03/21/2017

Datafile path....: J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a11.D
DP Method path...: J:\Organics\Minerva\Methods\M032117PCB1260.M

SSV 1260 100pg/uL

CAS #	Compound	RT	Exp RT	Area		Spike (expected)	Amount (pg)	%Rec	Flag
Surrogate									
	tmx (1)	-	6.99	-		10	-	-	
	dcb	-	17.79	-	m	10	-	-	
	tmx (1) #2	-	4.80	-		10	-	-	
	dcb #2	-	13.28	-	m	10	-	-	
Target						Criteria range: 70-130%			
	1016 -1	-	7.60	-	m	100	-	-	
	1016-2	-	8.66	-	m	100	-	-	
	1016-3	-	9.31	-	m	100	-	-	
	1016-4	-	9.46	-		100	-	-	
	1016-5	-	9.56	-		100	-	-	
	1260-1	12.50	12.50	116393		100	95.9	96	
	1260-2	12.94	12.94	134768		100	95.5	96	
	1260-3	13.48	13.49	132254		100	92.8	93	
	1260-4	15.33	15.34	99208		100	101	101	
	1260-5	16.50	16.50	60804		100	95.9	96	
	1016 -1 #2	-	5.34	-	m	100	-	-	
	1016-2 #2	-	5.81	-	m	100	-	-	
	1016-3 #2	-	6.42	-	m	100	-	-	
	1016-4 #2	-	6.60	-		100	-	-	
	1016-5 #2	-	6.68	-		100	-	-	
	1260-1 #2	8.94	8.94	166966		100	89.9	90	
	1260-2 #2	9.38	9.38	223323		100	85.5	85	
	1260-3 #2	9.82	9.82	166012		100	83.6	84	
	1260-4 #2	10.92	10.92	285945		100	87.2	87	
	1260-5 #2	12.46	12.46	66771		100	81.9	82	

Average %Recovery:	%Rec
1016 Column 1 (n=5)	0
1016 Column 2 (n=5)	0
1260 Column 1 (n=5)	96
1260 Column 2 (n=5)	86

Analysis Log Method: Analyst: DWOOD Initial:

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
30 Mar 2017 9:29 am	M033017a01.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 9:54 am	M033017a02.D	87PCB081916A	PCB 1242 ICAL 25 pg/uL	.
30 Mar 2017 10:18 am	M033017a03.D	87PCB081916B	PCB 1242 ICAL 50 pg/uL	.
30 Mar 2017 10:43 am	M033017a04.D	87PCB081916C	PCB 1242 ICAL 100 pg/uL	.
30 Mar 2017 11:56 am	M033017a05.D	87PCB081916D	PCB 1242 ICAL 250 pg/uL	.
30 Mar 2017 12:20 pm	M033017a06.D	87PCB081916E	PCB 1242 ICAL 500 pg/uL	.
30 Mar 2017 12:45 pm	M033017a07.D	87PCB081916F	PCB 1242 ICAL 1000 pg/uL	.
30 Mar 2017 13:09 pm	M033017a08.D	87PCB110116C	PCB 1242 SSV Std 100pg/uL	.
30 Mar 2017 13:34 pm	M033017a09.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 13:59 pm	M033017a10.D	87PCB083016A	PCB 1254 ICAL 25 pg/uL	.
30 Mar 2017 15:04 pm	M033017a11.D	87PCB083016B	PCB 1254 ICAL 50 pg/uL	.
30 Mar 2017 15:28 pm	M033017a12.D	87PCB083016C	PCB 1254 ICAL 100 pg/uL	.
30 Mar 2017 15:53 pm	M033017a13.D	87PCB083016D	PCB 1254 ICAL 250 pg/uL	.
30 Mar 2017 16:18 pm	M033017a14.D	87PCB083016E	PCB 1254 ICAL 500 pg/uL	.
30 Mar 2017 16:42 pm	M033017a15.D	87PCB083016F	PCB 1254 ICAL 1000 pg/uL	.
30 Mar 2017 17:07 pm	M033017a16.D	87PCB110116E	PCB 1254 Std 100pg/uL	.
30 Mar 2017 17:32 pm	M033017a17.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 17:56 pm	M033017a18.D	87PCB081916C	PCB 1242 Cont Cal 100 pg/uL	.
30 Mar 2017 18:21 pm	M033017a19.D	87PCB083016C	PCB 1254 Cont Cal 100 pg/uL	.
30 Mar 2017 18:45 pm	M033017a20.D	17104001	Sky Valley PCB PUF 2mL fv	.
30 Mar 2017 19:10 pm	M033017a21.D	17104005	Sky Valley PCB PUF 2mL fv	.
30 Mar 2017 19:35 pm	M033017a22.D	17114000	Sky Valley PCB PUF 2mL fv	.
30 Mar 2017 19:59 pm	M033017a23.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 20:24 pm	M033017a24.D	87PCB081916C	PCB 1242 Cont Cal 100 pg/uL	.
30 Mar 2017 20:49 pm	M033017a25.D	87PCB083016C	PCB 1254 Cont Cal 100 pg/uL	.

Calibration Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M033017PCB1242.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Thu Mar 30 14:29:30 2017
Response Via : Initial Calibration

Calibration Files
1 =M033017a02 2 =M033017a03 3 =M033017a04 4 =M033017a05 5 =M033017a06
6 =M033017a07

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) L1	1242 -1	Lin	5.3048 e3	5.0399 e2	-----	0.9959
2) L1	1242-2	Lin	4.1748 e3	4.4253 e2	-----	0.9952
3) L1	1242-3	Lin	6.0264 e3	9.0721 e2	-----	0.9974
4) L1	1242-4	Lin	4.8103 e3	5.6142 e2	-----	0.9958
5) L1	1242-5	Lin	2.4096 e3	3.6837 e2	-----	0.9974

Signal #2

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) L1	1242 -1	Lin	2.7409 e3	6.1794 e2	-----	0.9983
2) L1	1242-2	Lin	5.6543 e3	1.0532 e3	-----	0.9985
3) L1	1242-3	Lin	2.3450 e3	5.2068 e2	-----	0.9988
4) L1	1242-4	Lin	-8.6110 e2	1.5050 e3	-----	0.9991
5) L1	1242-5	Lin	1.0764 e2	8.6805 e2	-----	0.9993

M033017PCB1242.M Fri Mar 31 07:48:14 2017

Compound List Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M033017PCB1242.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Thu Mar 30 14:29:30 2017
Response Via : Initial Calibration

Total Cpnds : 11

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	L1	1242 -1	8.310	1.000	L	H	R
2	L1	1242-2	8.660	1.000	L	H	R
3	L1	1242-3	9.130	1.000	L	H	R
4	L1	1242-4	9.320	1.000	L	H	R
5	L1	1242-5	9.460	1.000	L	H	R
6	L2	Signal #2	0.000	1.000	L	H	R
7	L1	1242 -1 #2	5.350	1.000	L	H	R
8	L1	1242-2 #2	5.800	1.000	L	H	R
9	L1	1242-3 #2	6.080	1.000	L	H	R
10	L1	1242-4 #2	6.440	1.000	L	H	R
11	L1	1242-5 #2	6.590	1.000	L	H	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

M033017PCB1242.M Thu Mar 30 14:52:59 2017

Calibration Status Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M033017PCB1242.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Thu Mar 30 14:29:30 2017
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	25	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a02.D
2	2	50	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a03.D
3	3	100	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a04.D
4	4	250	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a05.D
5	5	500	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a06.D
6	6	1000	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a07.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Mar 30 14:27 2017	Mar 30 14:23 2017	30 Mar 2017 9:54 am
2	2	Mar 30 14:28 2017	Mar 30 14:22 2017	30 Mar 2017 10:18 am
3	3	Mar 30 14:28 2017	Mar 30 14:22 2017	30 Mar 2017 10:43 am
4	4	Mar 30 14:28 2017	Mar 30 14:22 2017	30 Mar 2017 11:56 am
5	5	Mar 30 14:29 2017	Mar 30 14:23 2017	30 Mar 2017 12:20 pm
6	6	Mar 30 14:29 2017	Mar 30 14:23 2017	30 Mar 2017 12:45 pm

M033017PCB1242.M Thu Mar 30 14:52:41 2017

ICAL Series	M033017a02.D		through	M033017a07.D			
Last Calibration Update	Thu Mar 30 14:30:04 2017						
	25	50	100	250	500	1000	0
Analyte	%Difference from expected						
1242 -1	-3.8	4.6	6.6	1.4	-1.8	-7.0	
1242-2	-4.8	7.6	4.6	1.6	-2.4	-6.5	
1242-3	-3.4	5.1	3.6	1.0	-0.7	-5.6	
1242-4	-4.6	6.7	6.0	-0.1	-3.2	-4.9	
1242-5	-3.5	5.6	3.0	0.6	-0.3	-5.5	
Signal #2							
1242 -1 #2	-1.3	1.2	1.7	4.5	-0.5	-5.5	
1242-2 #2	-1.7	1.9	2.2	3.1	-0.3	-5.3	
1242-3 #2	-1.5	1.7	1.6	3.6	-1.3	-4.2	
1242-4 #2	1.0	-0.6	-3.6	2.9	-1.7	2.1	
1242-5 #2	0.7	-1.1	-1.7	4.0	-1.3	-0.5	

ICAL Series M033017a02.D through M033017a07.D
Last Calibration Update Thu Mar 30 14:30:04 2017

		Concentration	25	50	100	250	500	1000	0
1	0	1242 -1	24.04002	52.31677	106.6008	253.446	490.9169	930.4435	
2	0	1242-2	23.79277	53.816	104.5597	253.8928	488.1008	934.5931	
3	0	1242-3	24.16222	52.53289	103.5548	252.5987	496.6794	943.5538	
4	0	1242-4	23.85499	53.36742	106.0137	249.7799	483.9144	951.3586	
5	0	1242-5	24.13032	52.80914	103.0338	251.6228	498.4496	944.8856	
6	0	Signal #2							
7	0	1242 -1 #2	24.67952	50.5854	101.6506	261.1659	497.4489	945.0467	
8	0	1242-2 #2	24.58585	50.93088	102.2396	257.8166	498.64	947.032	
9	0	1242-3 #2	24.63598	50.8634	101.6172	258.9362	493.5584	958.2625	
10	0	1242-4 #2	25.24153	49.68033	96.3967	257.2022	491.394	1021.19	
11	0	1242-5 #2	25.16421	49.45615	98.25766	260.0595	493.3044	994.8843	

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 9:54 am
Operator : DWOOD
Sample : 87PCB081916A
Misc : PCB 1242 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:31:08 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

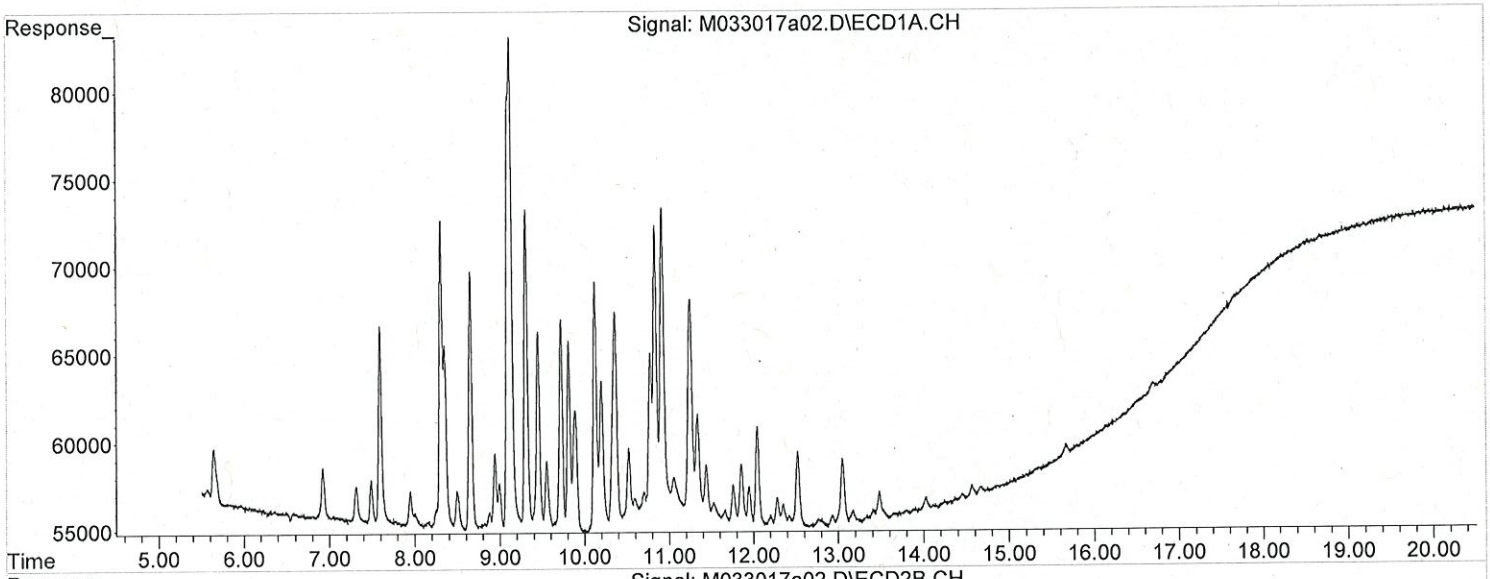
Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

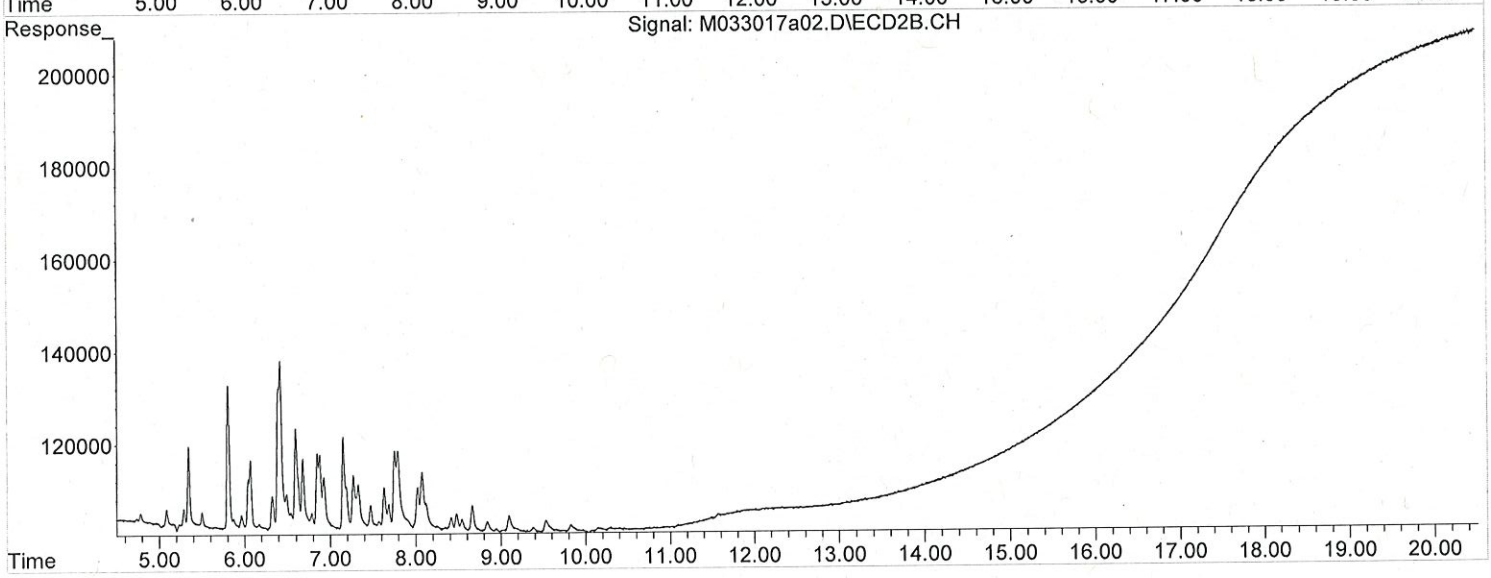
Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1242 -1	8.309	5.343	17421	17991	24.040	24.680
2) L1 1242-2	8.655	5.807	14704	31547	23.793	24.586
3) L1 1242-3	9.125	6.070	27947	15173	24.162	24.636
4) L1 1242-4	9.309	6.421	18203	37127	23.855	25.241
5) L1 1242-5	9.452	6.598	11299	21951	24.130	25.164
Sum 1242 -1			89573	123790	119.980	124.307
Average 1242 -1					23.996	24.861

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ww
3/30/17

File :J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a0
... 2.D
Operator : DWOOD
Instrument : Minerva
Acquired : 30 Mar 2017 9:54 am using AcqMethod M012116PCB2B.M
Sample Name: 87PCB081916A
Misc Info : PCB 1242 ICAL 25 pg/uL





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 9:54 am
Operator : DWOOD
Sample : 87PCB081916A
Misc : PCB 1242 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

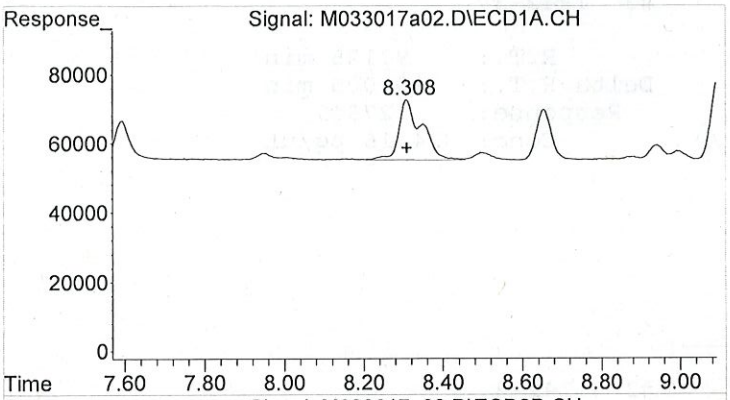
Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:23:51 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Mar 29 09:30:06 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1242 -1	8.309	5.343	17421	17991	40.275	76.559 #
2) L1 1242-2	8.655	5.807	14704	31547	29.984	59.688 #
3) L1 1242-3	9.125	6.070	27947	15173	46.489	87.810 #
4) L1 1242-4	9.309	6.421	18203	37127	72.807	134.696 #
5) L1 1242-5	9.452	6.598	11299	21951	42.335	118.611 #
Sum 1242 -1			89573	123790	231.891	477.363
Average 1242 -1					46.378	95.473

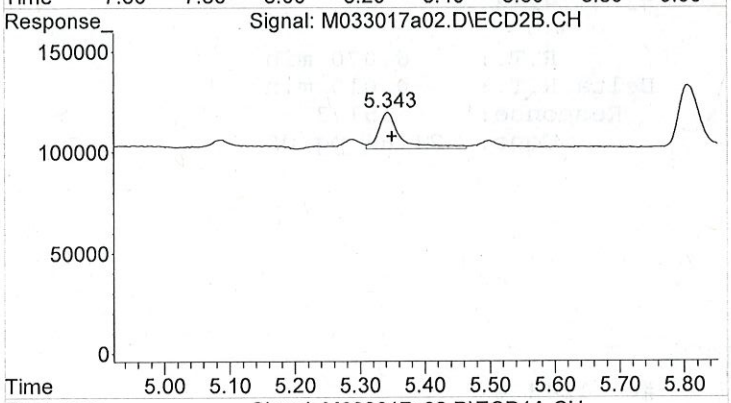
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

LW
3/30/17



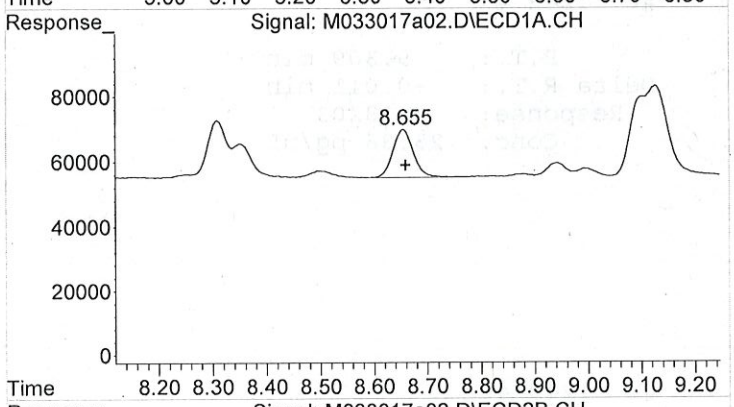
#1 1242 -1

R.T.: 8.309 min
Delta R.T.: -0.001 min
Response: 17421
Conc: 24.04 pg/uL



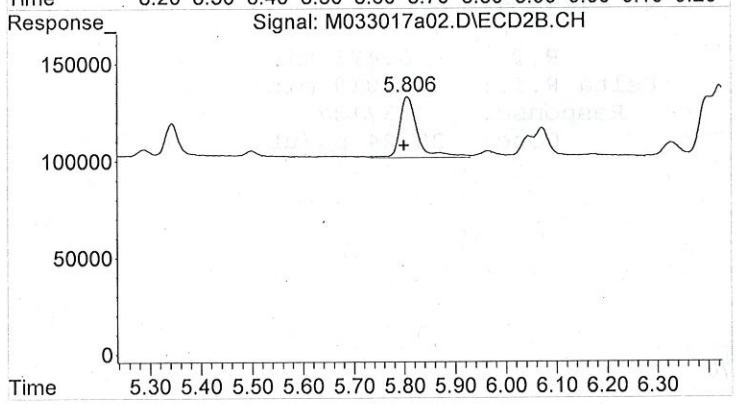
#1 1242 -1

R.T.: 5.343 min
Delta R.T.: -0.007 min
Response: 17991
Conc: 24.68 pg/uL



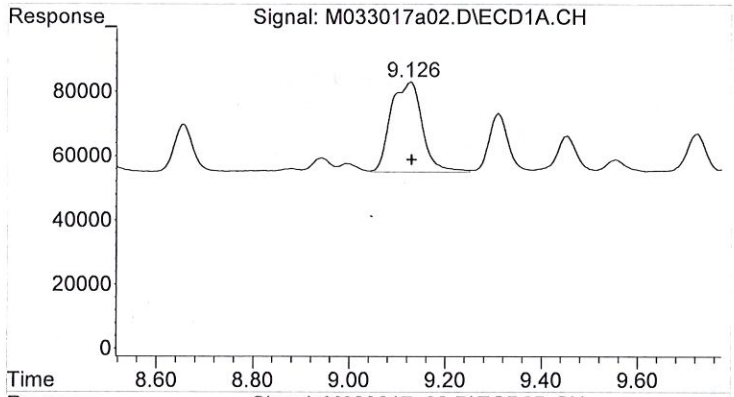
#2 1242-2

R.T.: 8.655 min
Delta R.T.: -0.005 min
Response: 14704
Conc: 23.79 pg/uL



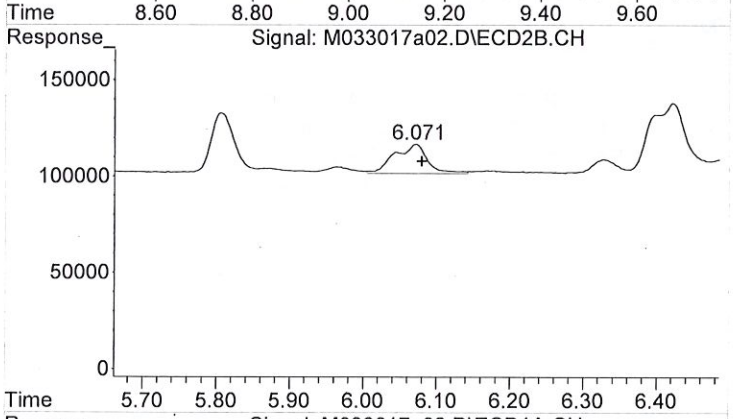
#2 1242-2

R.T.: 5.807 min
Delta R.T.: 0.007 min
Response: 31547
Conc: 24.59 pg/uL



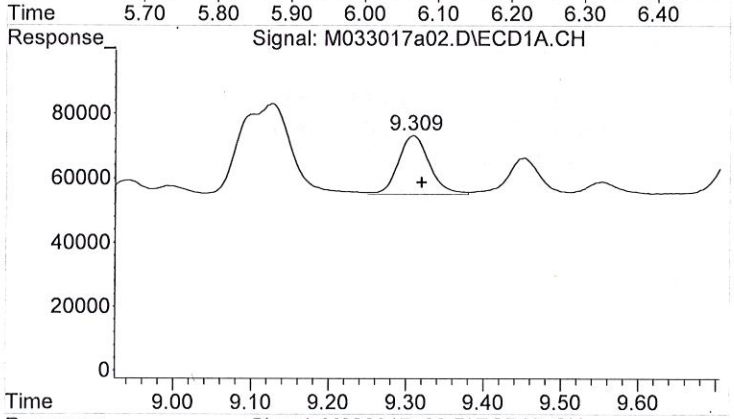
#3 1242-3

R.T.: 9.125 min
Delta R.T.: -0.005 min
Response: 27947
Conc: 24.16 pg/uL



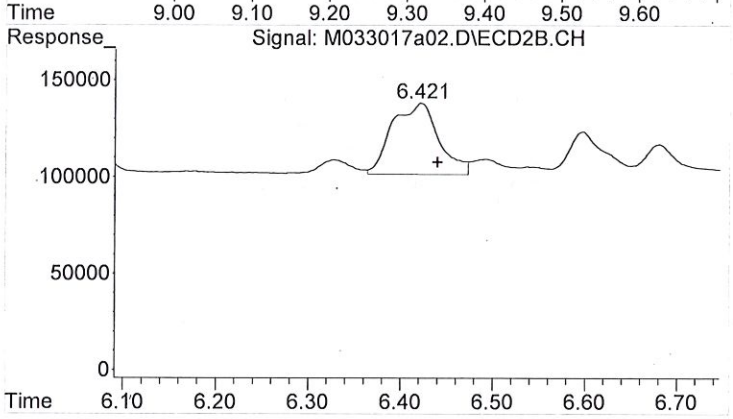
#3 1242-3

R.T.: 6.070 min
Delta R.T.: -0.010 min
Response: 15173
Conc: 24.64 pg/uL



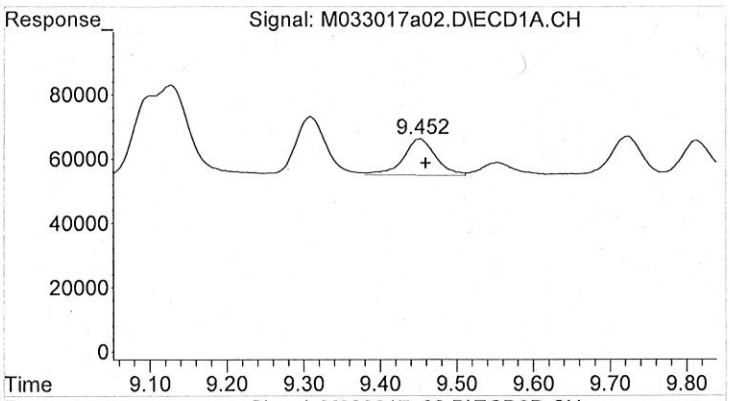
#4 1242-4

R.T.: 9.309 min
Delta R.T.: -0.011 min
Response: 18203
Conc: 23.86 pg/uL



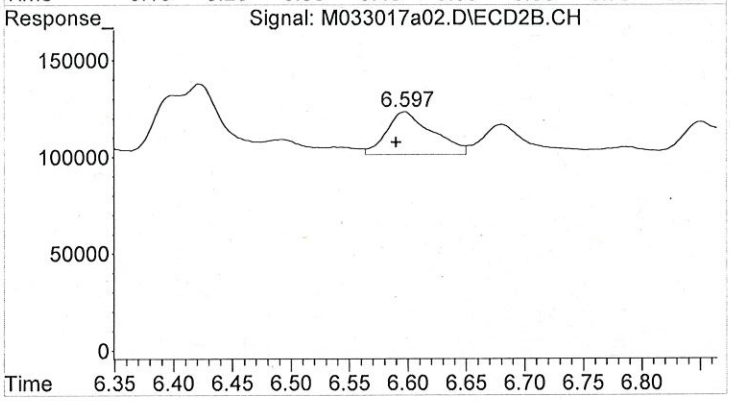
#4 1242-4

R.T.: 6.421 min
Delta R.T.: -0.019 min
Response: 37127
Conc: 25.24 pg/uL



#5 1242-5

R.T.: 9.452 min
Delta R.T.: -0.008 min
Response: 11299
Conc: 24.13 pg/uL



#5 1242-5

R.T.: 6.598 min
Delta R.T.: 0.008 min
Response: 21951
Conc: 25.16 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 10:18 am
Operator : DWOOD
Sample : 87PCB081916B
Misc : PCB 1242 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:31:14 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

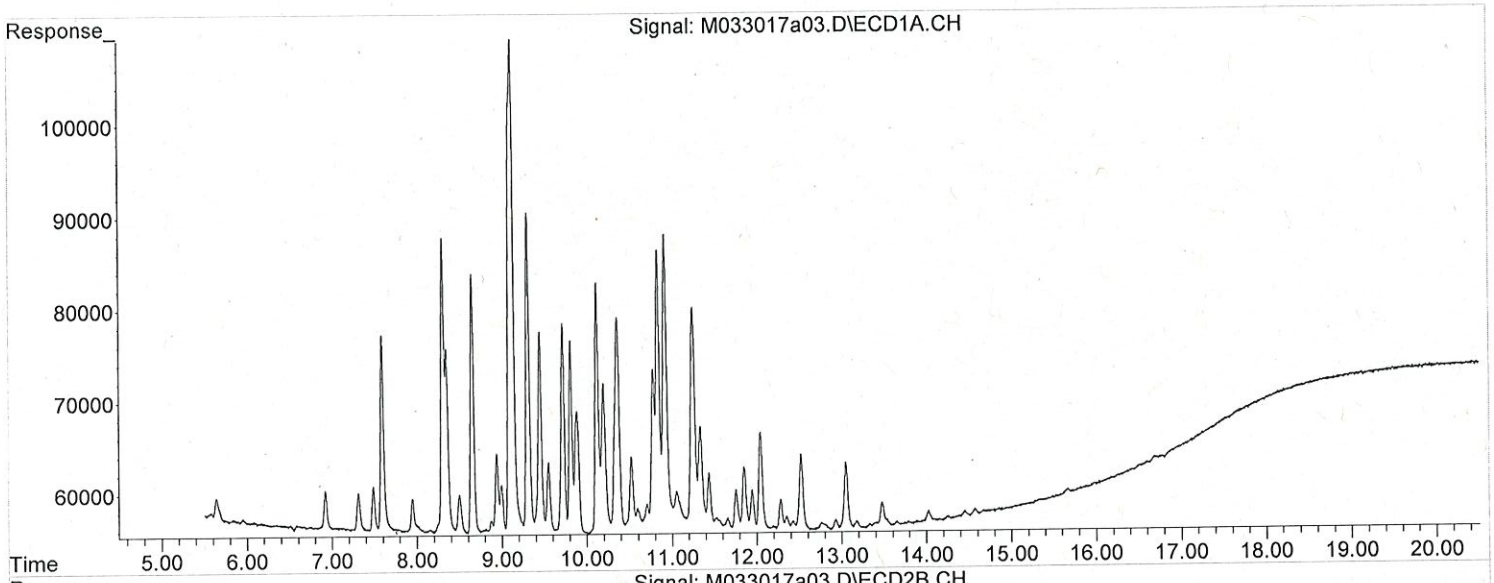
Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

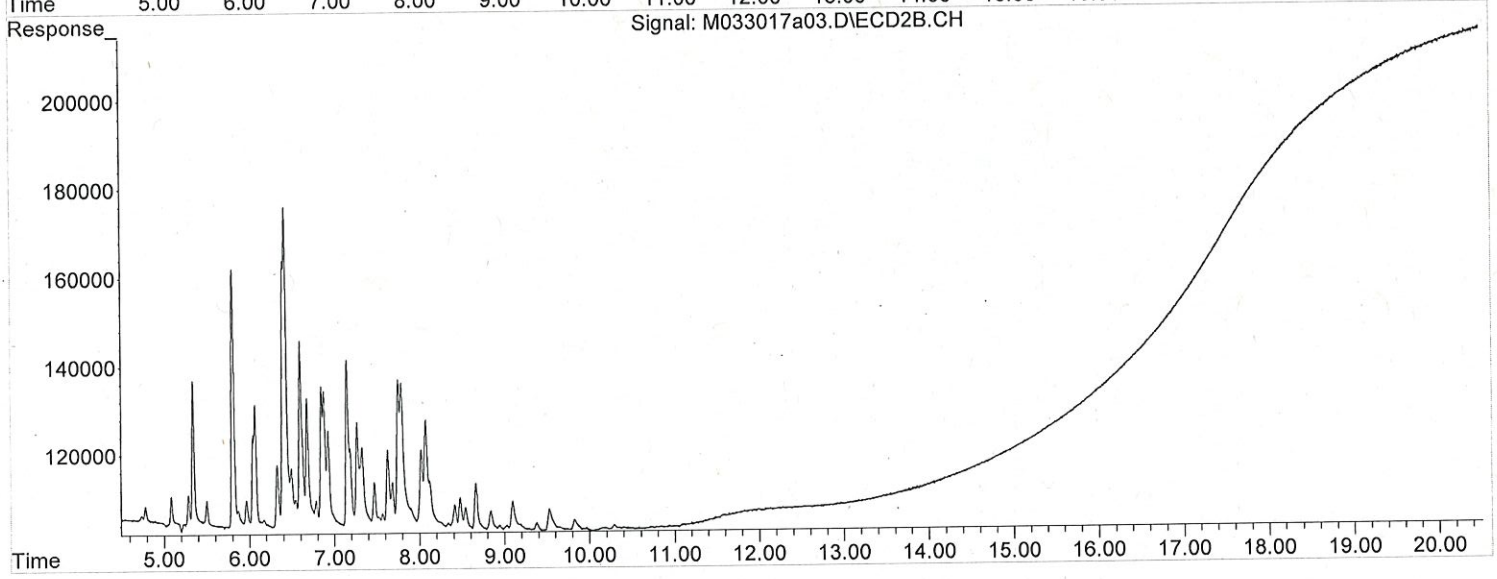
Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1242 -1	8.307	5.343	31672	34000	52.317	50.585
2) L1 1242-2	8.653	5.806	27990	59293	53.816	50.931
3) L1 1242-3	9.122	6.069	53685	28829	52.533	50.863
4) L1 1242-4	9.308	6.420	34772	73907	53.368	49.680
5) L1 1242-5	9.450	6.597	21863	43038	52.809	49.456
Sum 1242 -1			169982	239067	264.842	251.516
Average 1242 -1					52.968	50.303

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
3/30/17

File :J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a0
... 3.D
Operator : DWOOD
Instrument : Minerva
Acquired : 30 Mar 2017 10:18 am using AcqMethod M012116PCB2B.M
Sample Name: 87PCB081916B
Misc Info : PCB 1242 ICAL 50 pg/uL





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 10:18 am
Operator : DWOOD
Sample : 87PCB081916B
Misc : PCB 1242 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

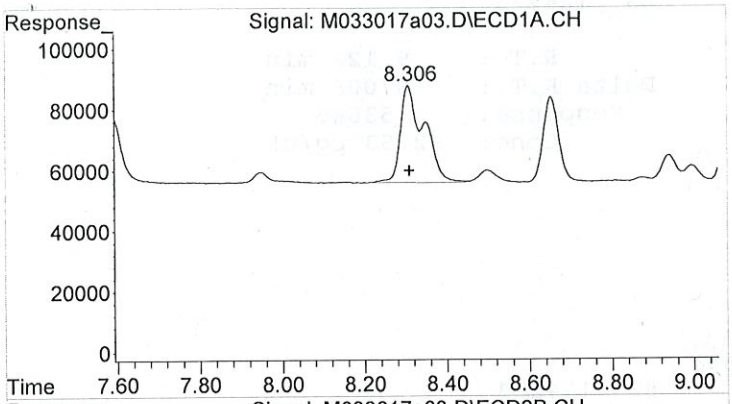
Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:22:39 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Mar 29 09:30:06 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
Target Compounds							
1) L1 1242 -1	8.307	5.343	31672	34000	73.223	144.679	#
2) L1 1242-2	8.653	5.806	27990	59293	57.077	112.183	#
3) L1 1242-3	9.122	6.069	53685	28829	89.305	166.844	#
4) L1 1242-4	9.308	6.420	34772	73907	139.078	268.133	#
5) L1 1242-5	9.450	6.597	21863	43038	81.920	232.549	#
Sum 1242 -1			169982	239067	440.602	924.388	
Average 1242 -1					88.120	184.878	

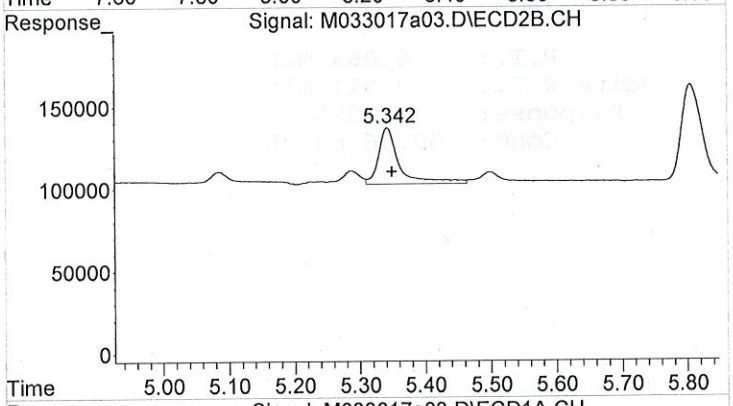
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW
3/30/17



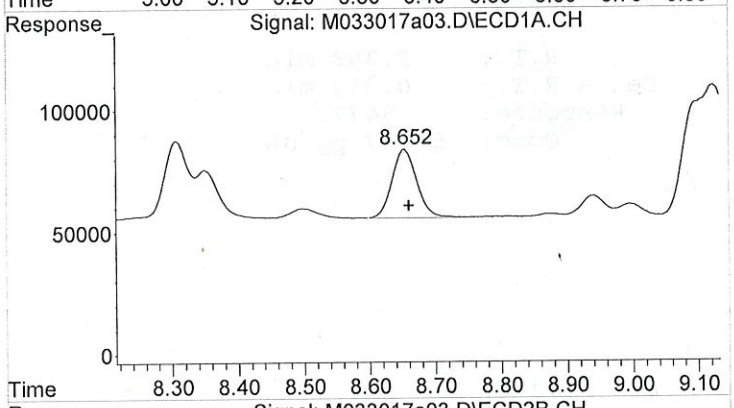
#1 1242 -1

R.T.: 8.307 min
Delta R.T.: -0.003 min
Response: 31672
Conc: 52.32 pg/uL



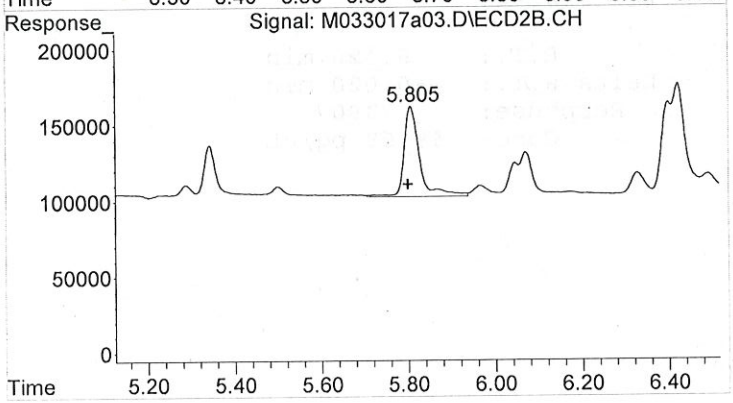
#1 1242 -1

R.T.: 5.343 min
Delta R.T.: -0.007 min
Response: 34000
Conc: 50.59 pg/uL



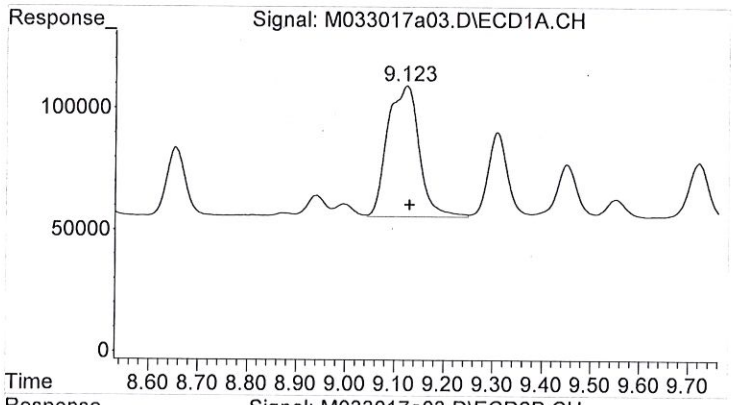
#2 1242-2

R.T.: 8.653 min
Delta R.T.: -0.007 min
Response: 27990
Conc: 53.82 pg/uL



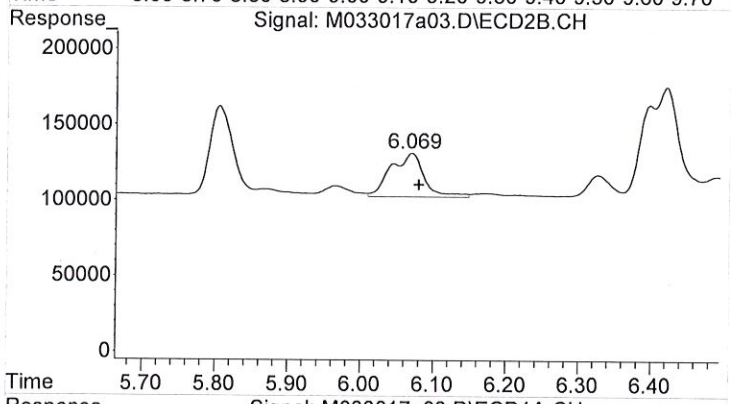
#2 1242-2

R.T.: 5.806 min
Delta R.T.: 0.006 min
Response: 59293
Conc: 50.93 pg/uL



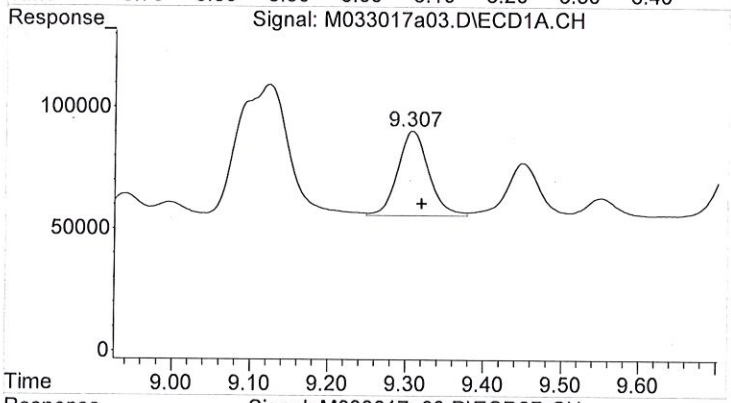
#3 1242-3

R.T.: 9.122 min
Delta R.T.: -0.008 min
Response: 53685
Conc: 52.53 pg/uL



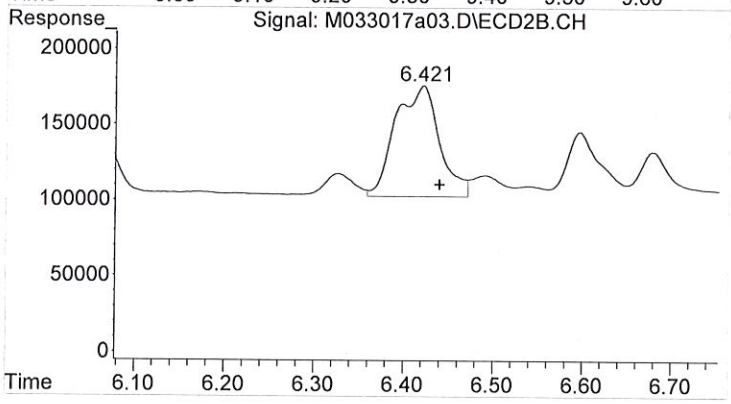
#3 1242-3

R.T.: 6.069 min
Delta R.T.: -0.011 min
Response: 28829
Conc: 50.86 pg/uL



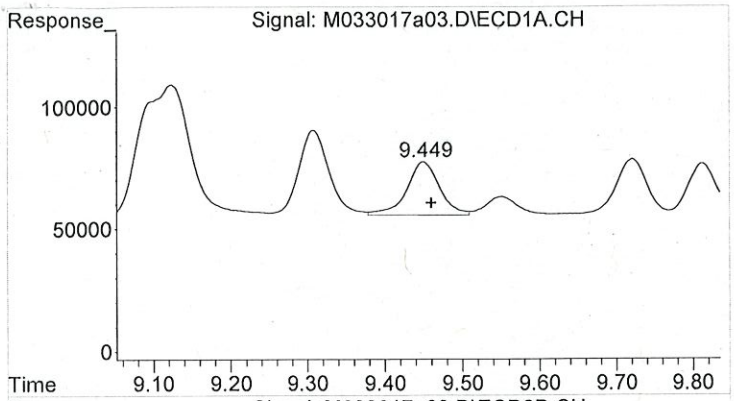
#4 1242-4

R.T.: 9.308 min
Delta R.T.: -0.012 min
Response: 34772
Conc: 53.37 pg/uL



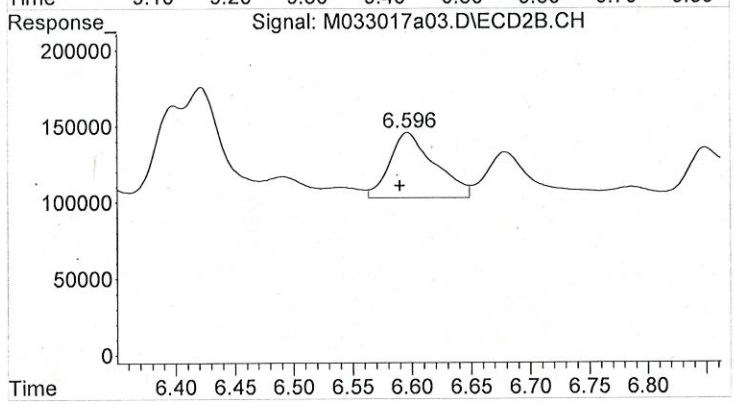
#4 1242-4

R.T.: 6.420 min
Delta R.T.: -0.020 min
Response: 73907
Conc: 49.68 pg/uL



#5 1242-5

R.T.: 9.450 min
Delta R.T.: -0.010 min
Response: 21863
Conc: 52.81 pg/uL



#5 1242-5

R.T.: 6.597 min
Delta R.T.: 0.007 min
Response: 43038
Conc: 49.46 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 10:43 am
Operator : DWOOD
Sample : 87PCB081916C
Misc : PCB 1242 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:31:20 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

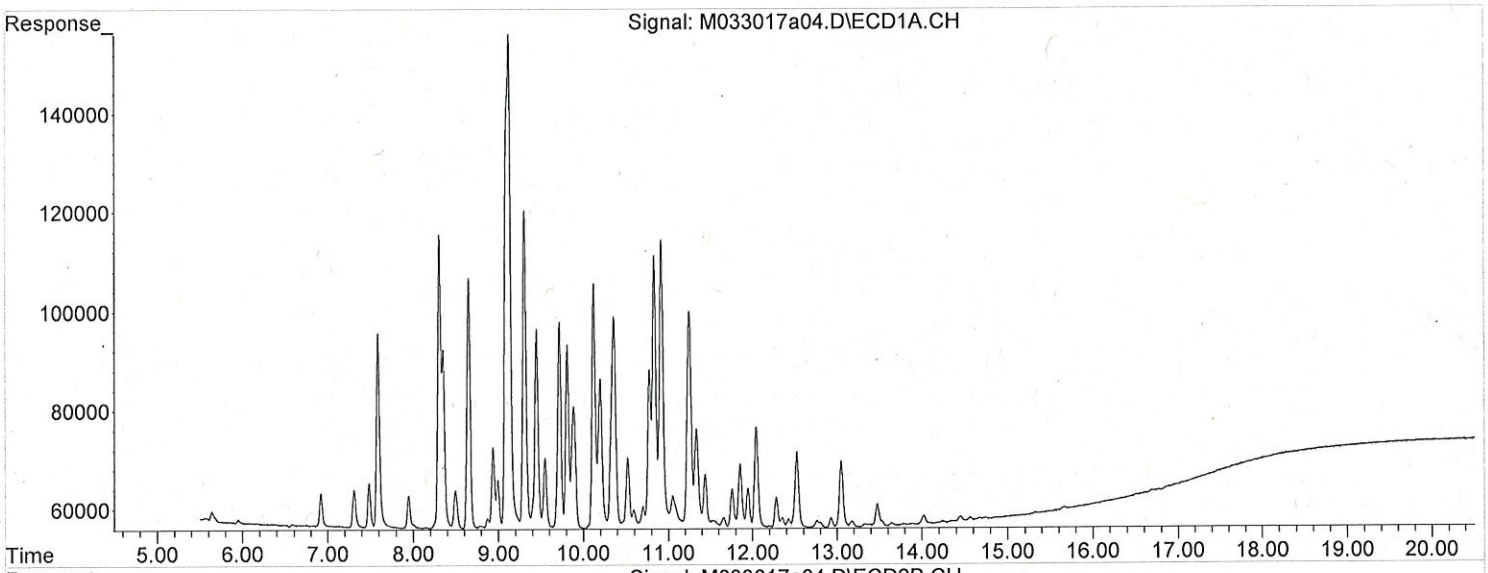
Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

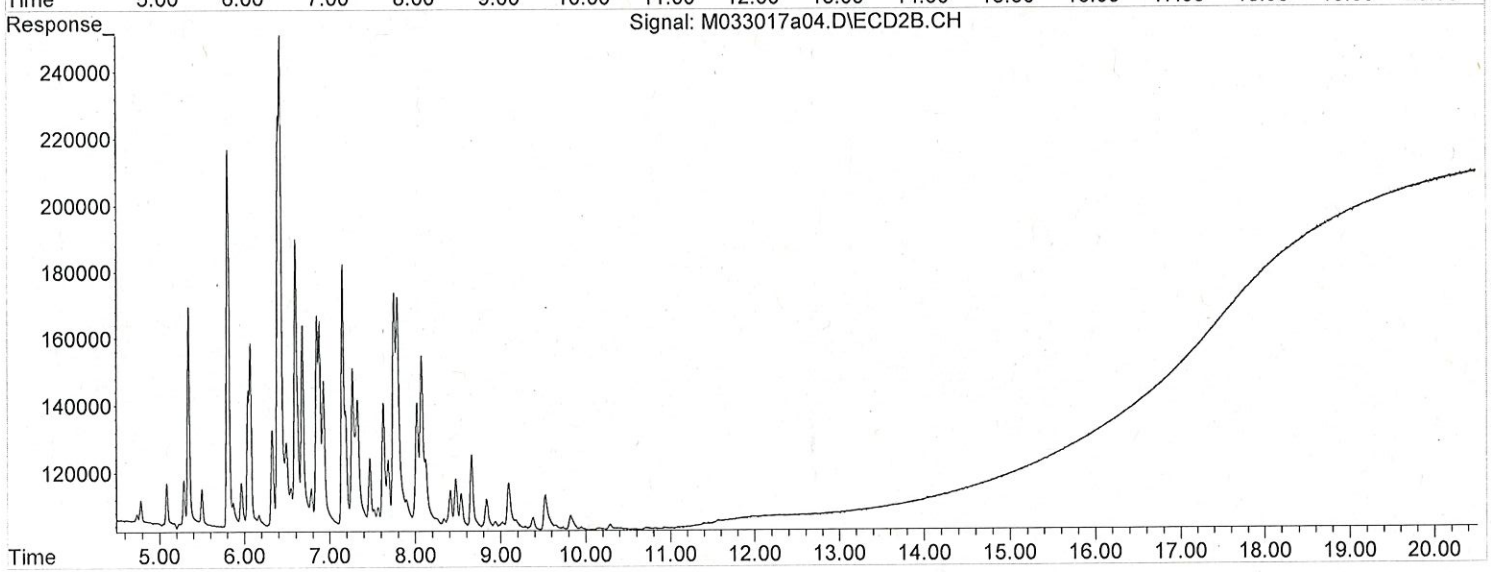
Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1242 -1	8.307	5.342	59031	65555	106.601	101.651
2) L1 1242-2	8.653	5.805	50446	113330	104.560	102.239
3) L1 1242-3	9.123	6.069	99972	55255	103.555	101.617
4) L1 1242-4	9.307	6.418	64329	144214	106.014	96.396
5) L1 1242-5	9.449	6.595	40365	85400	103.034	98.258
Sum 1242 -1			314142	463754	523.763	500.161
Average 1242 -1					104.753	100.032

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW
3/30/17

File :J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a0
... 4.D
Operator : DWOOD
Instrument : Minerva
Acquired : 30 Mar 2017 10:43 am using AcqMethod M012116PCB2B.M
Sample Name: 87PCB081916C
Misc Info : PCB 1242 ICAL 100 pg/uL





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 10:43 am
Operator : DWOOD
Sample : 87PCB081916C
Misc : PCB 1242 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

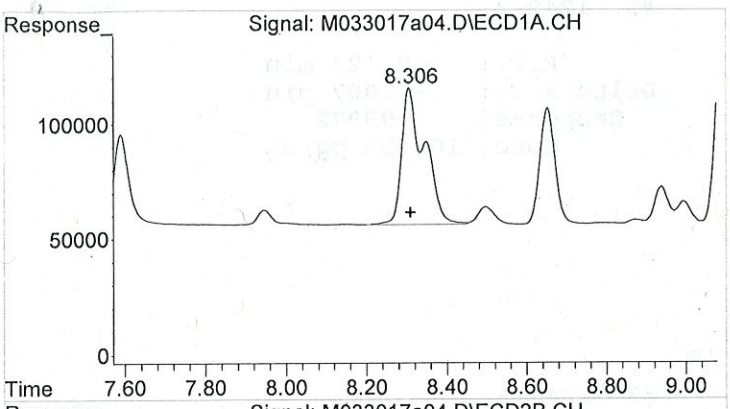
Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:22:45 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Mar 29 09:30:06 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
Target Compounds							
1) L1 1242 -1	8.307	5.342	59031	65555	136.474	278.956	#
2) L1 1242-2	8.653	5.805	50446	113330	102.868	214.420	#
3) L1 1242-3	9.123	6.069	99972	55255	166.304	319.786	#
4) L1 1242-4	9.307	6.418	64329	144214	257.296	523.206	#
5) L1 1242-5	9.449	6.595	40365	85400	151.245	461.446	#
Sum 1242 -1			314142	463754	814.187	1797.814	
Average 1242 -1					162.837	359.563	

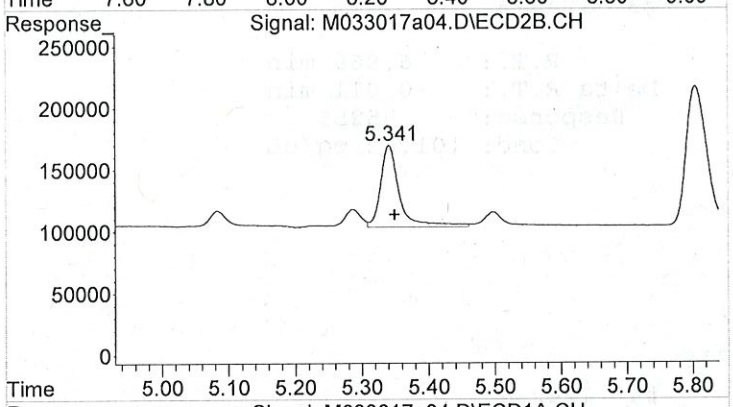
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
3/30/17



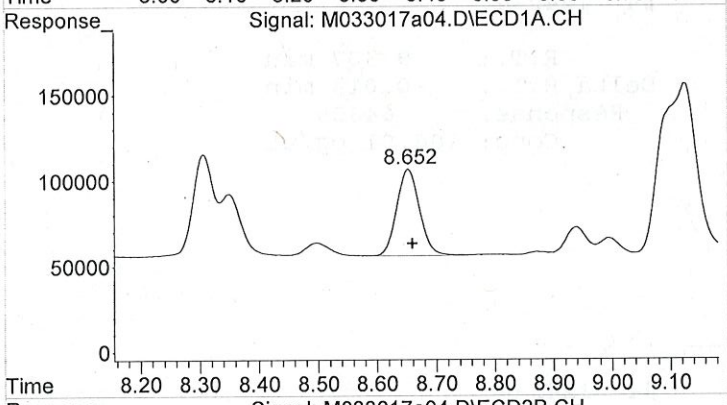
#1 1242 -1

R.T.: 8.307 min
Delta R.T.: -0.003 min
Response: 59031
Conc: 106.60 pg/uL



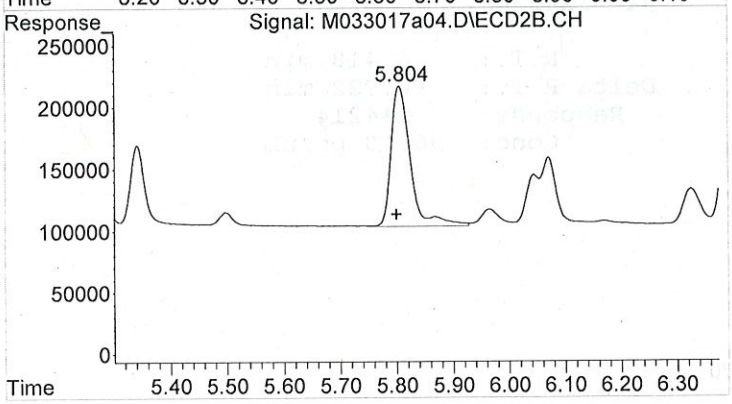
#1 1242 -1

R.T.: 5.342 min
Delta R.T.: -0.008 min
Response: 65555
Conc: 101.65 pg/uL



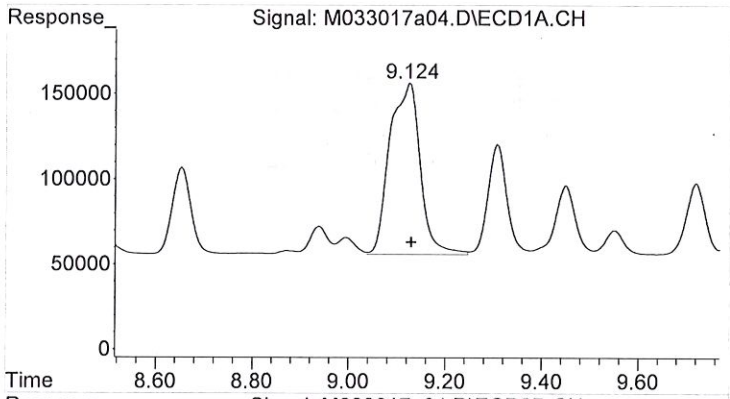
#2 1242-2

R.T.: 8.653 min
Delta R.T.: -0.007 min
Response: 50446
Conc: 104.56 pg/uL



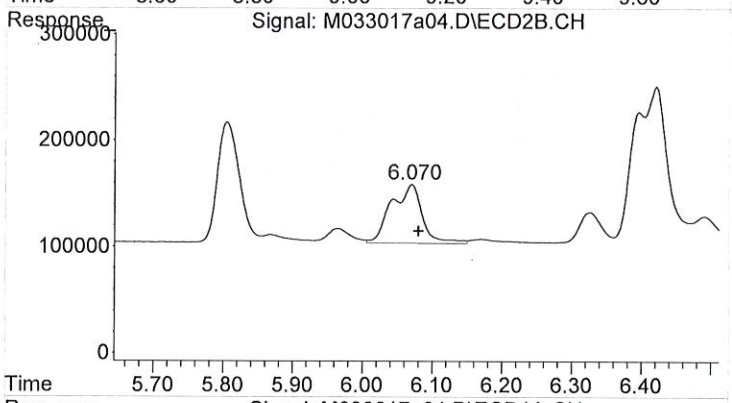
#2 1242-2

R.T.: 5.805 min
Delta R.T.: 0.005 min
Response: 113330
Conc: 102.24 pg/uL



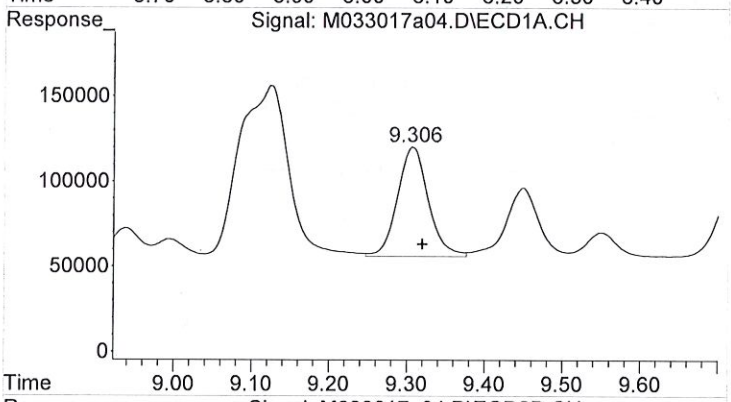
#3 1242-3

R.T.: 9.123 min
Delta R.T.: -0.007 min
Response: 99972
Conc: 103.55 pg/uL



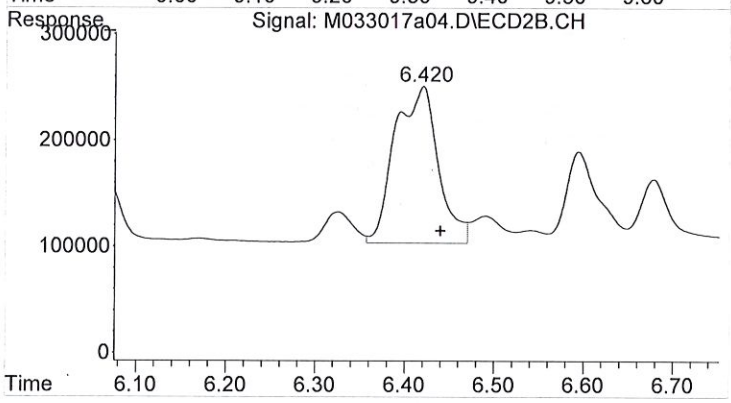
#3 1242-3

R.T.: 6.069 min
Delta R.T.: -0.011 min
Response: 55255
Conc: 101.62 pg/uL



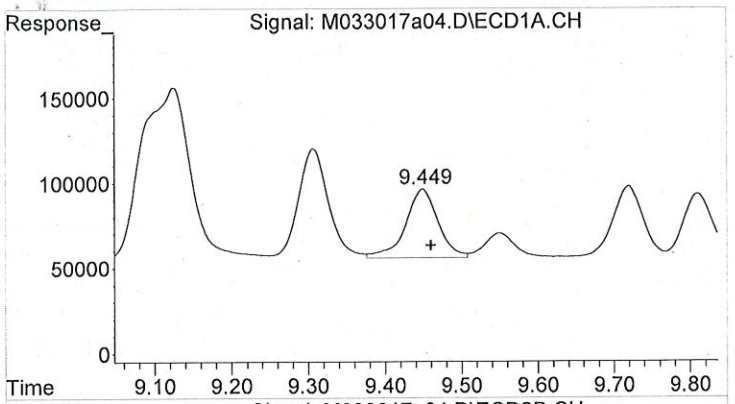
#4 1242-4

R.T.: 9.307 min
Delta R.T.: -0.013 min
Response: 64329
Conc: 106.01 pg/uL



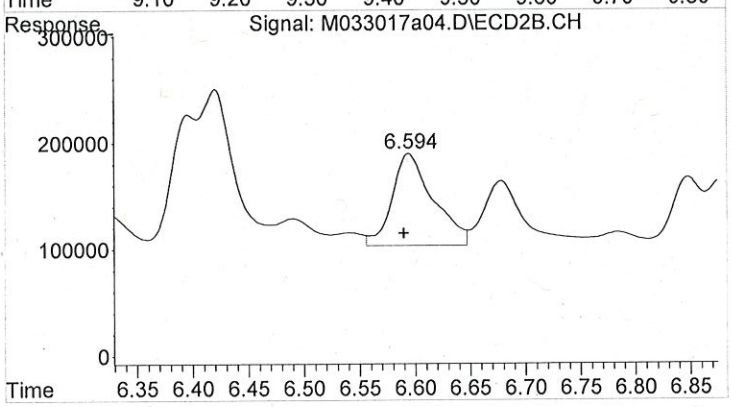
#4 1242-4

R.T.: 6.418 min
Delta R.T.: -0.022 min
Response: 144214
Conc: 96.40 pg/uL



#5 1242-5

R.T.: 9.449 min
Delta R.T.: -0.011 min
Response: 40365
Conc: 103.03 pg/uL



#5 1242-5

R.T.: 6.595 min
Delta R.T.: 0.005 min
Response: 85400
Conc: 98.26 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 11:56 am
Operator : DWOOD
Sample : 87PCB081916D
Misc : PCB 1242 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 5 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:31:26 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

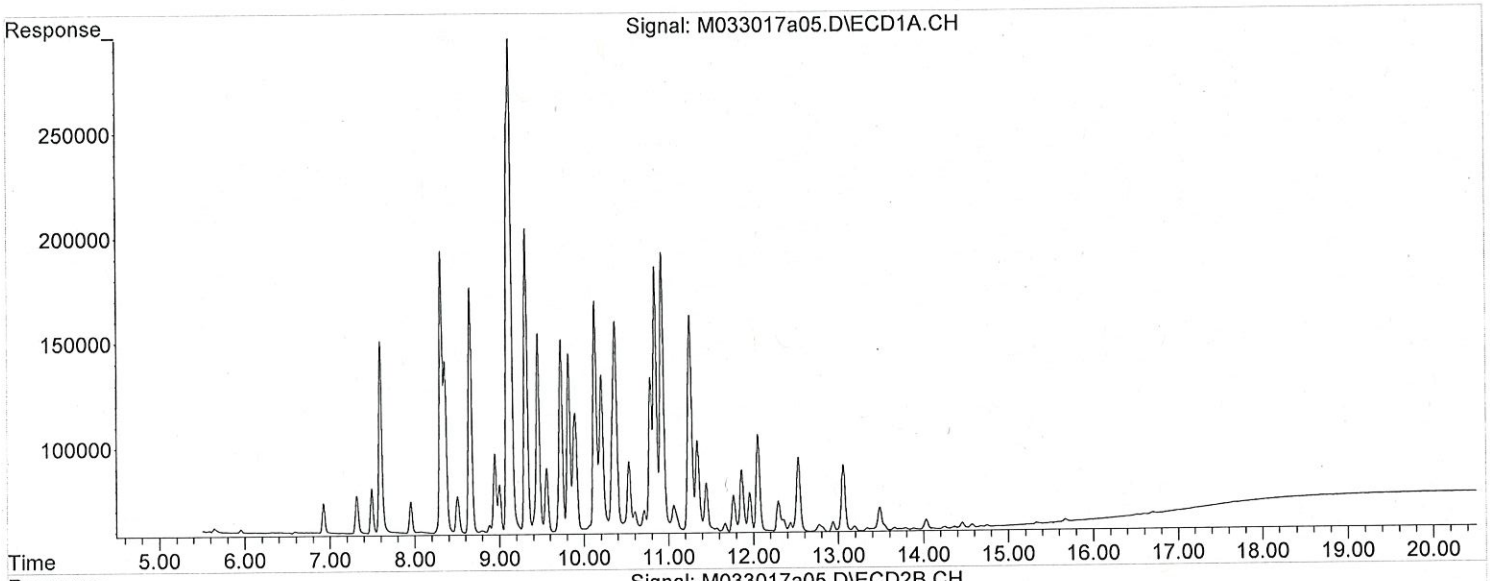
Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

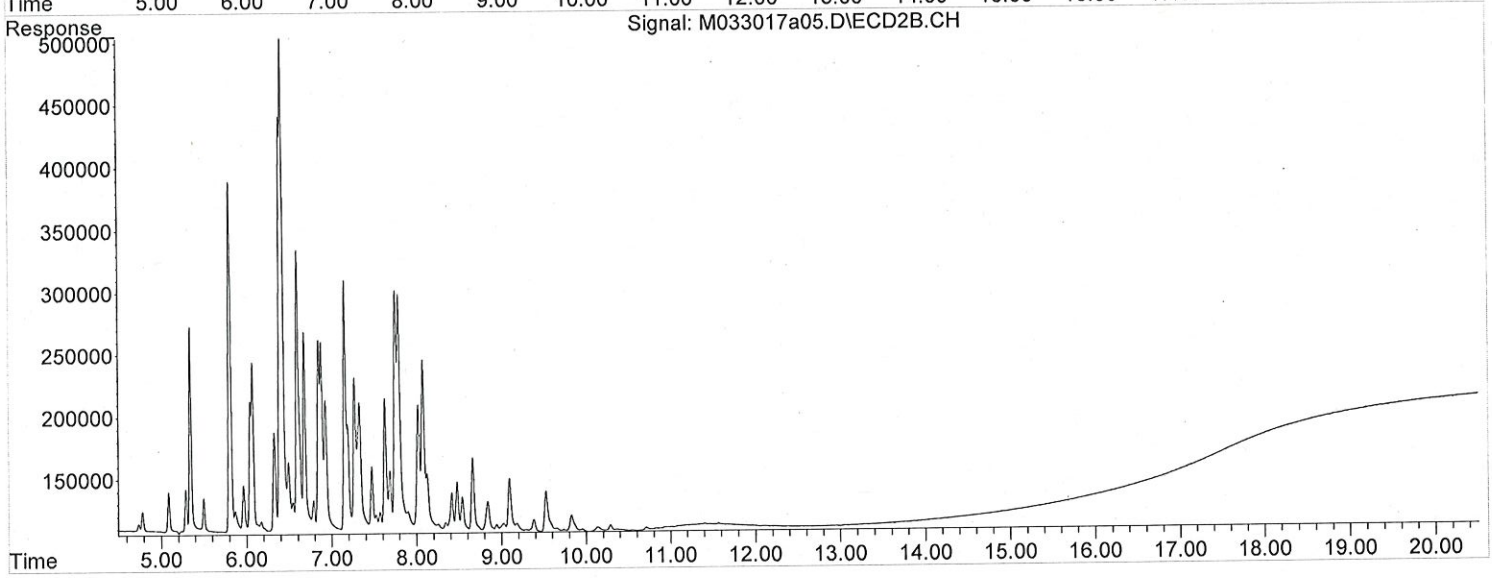
Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1242 -1	8.315	5.343	133039	164126	253.446	261.165
2) L1 1242-2	8.660	5.807	116531	277179	253.894	257.815
3) L1 1242-3	9.131	6.070	235186	137169	252.598	258.937
4) L1 1242-4	9.315	6.420	145042	386223	249.780	257.201
5) L1 1242-5	9.458	6.597	95101	225852	251.623	260.060
Sum 1242 -1			724899	1190549	1261.341	1295.179
Average 1242 -1					252.268	259.036

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

hw
3/30/17

File :J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a0
... 5.D
Operator : DWOOD
Instrument : Minerva
Acquired : 30 Mar 2017 11:56 am using AcqMethod M012116PCB2B.M
Sample Name: 87PCB081916D
Misc Info : PCB 1242 ICAL 250 pg/uL





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 11:56 am
Operator : DWOOD
Sample : 87PCB081916D
Misc : PCB 1242 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 5 (Sig #2) Sample Multiplier: 1

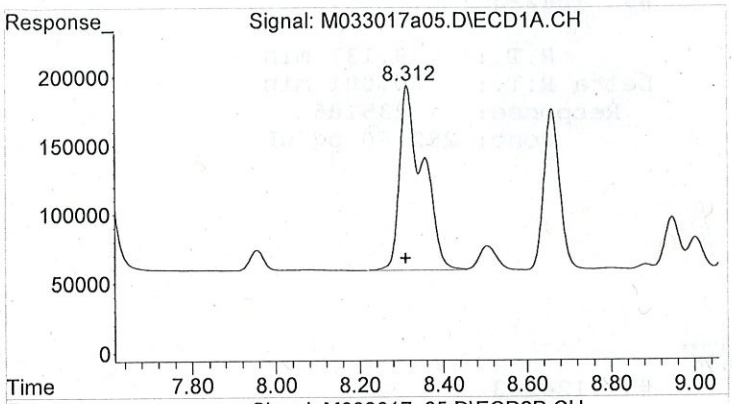
Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:22:52 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Mar 29 09:30:06 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
Target Compounds							
1) L1 1242 -1	8.315	5.343	133039	164126	307.576	698.404	#
2) L1 1242-2	8.660	5.807	116531	277179	237.627	524.423	#
3) L1 1242-3	9.131	6.070	235186	137169	391.233	793.854	#
4) L1 1242-4	9.315	6.420	145042	386223	580.126	1401.215	#
5) L1 1242-5	9.458	6.597	95101	225852	356.340	1220.358	#
Sum 1242 -1			724899	1190549	1872.901	4638.254	
Average 1242 -1					374.580	927.651	

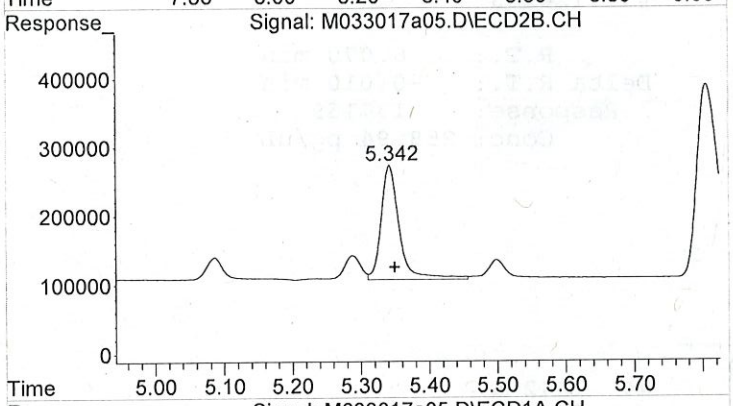
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
3/30/17



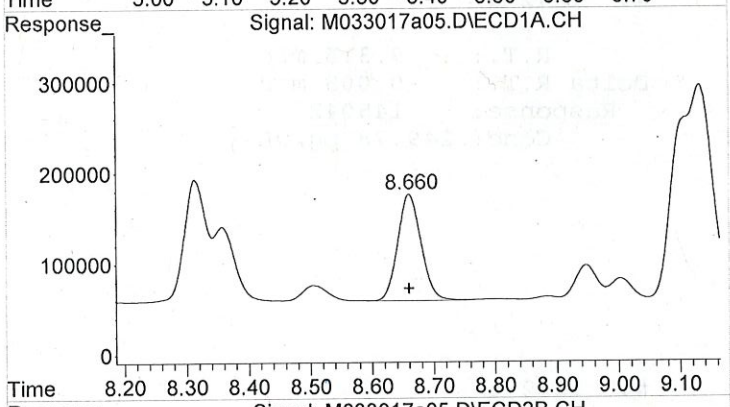
#1 1242 -1

R.T.: 8.315 min
Delta R.T.: 0.005 min
Response: 133039
Conc: 253.45 pg/uL



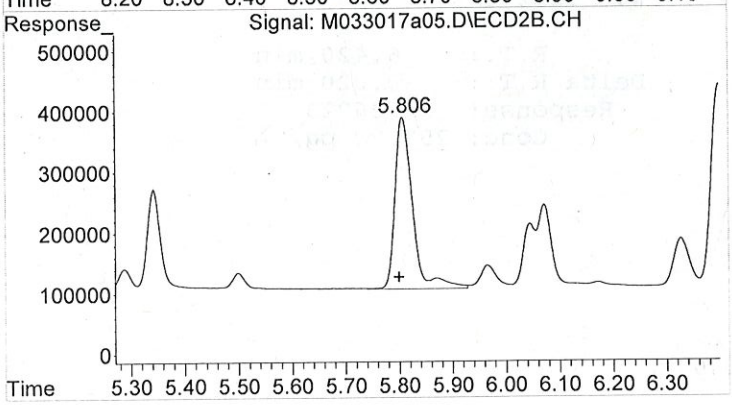
#1 1242 -1

R.T.: 5.343 min
Delta R.T.: -0.007 min
Response: 164126
Conc: 261.17 pg/uL



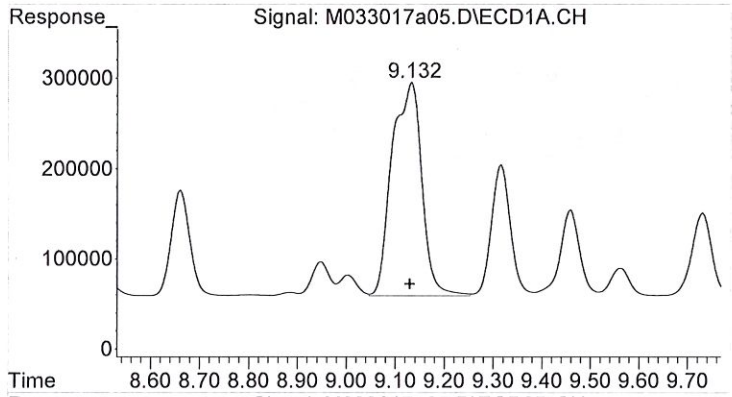
#2 1242-2

R.T.: 8.660 min
Delta R.T.: 0.000 min
Response: 116531
Conc: 253.89 pg/uL



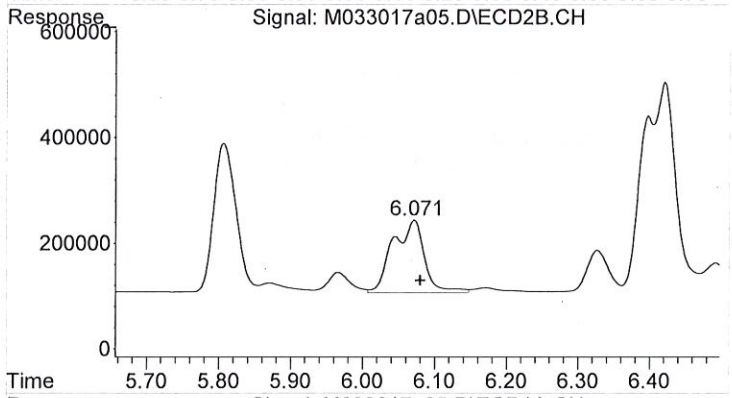
#2 1242-2

R.T.: 5.807 min
Delta R.T.: 0.007 min
Response: 277179
Conc: 257.82 pg/uL



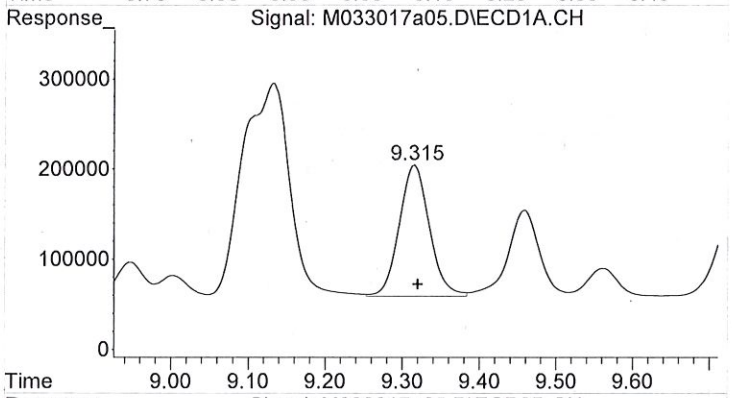
#3 1242-3

R.T.: 9.131 min
Delta R.T.: 0.001 min
Response: 235186
Conc: 252.60 pg/uL



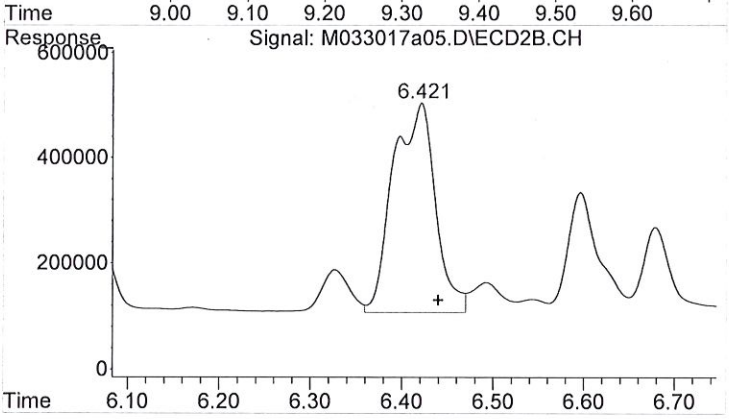
#3 1242-3

R.T.: 6.070 min
Delta R.T.: -0.010 min
Response: 137169
Conc: 258.94 pg/uL



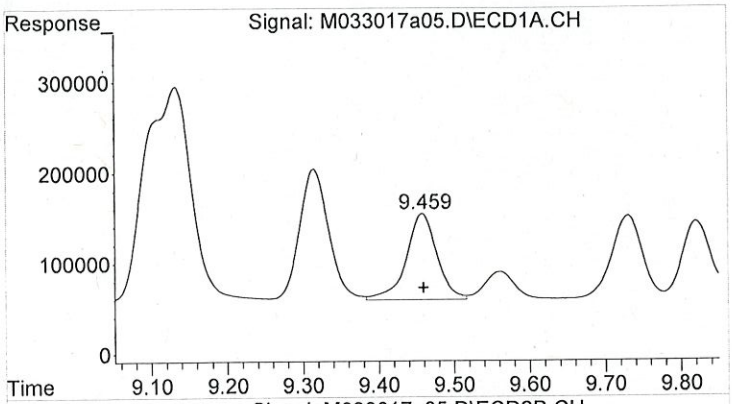
#4 1242-4

R.T.: 9.315 min
Delta R.T.: -0.005 min
Response: 145042
Conc: 249.78 pg/uL



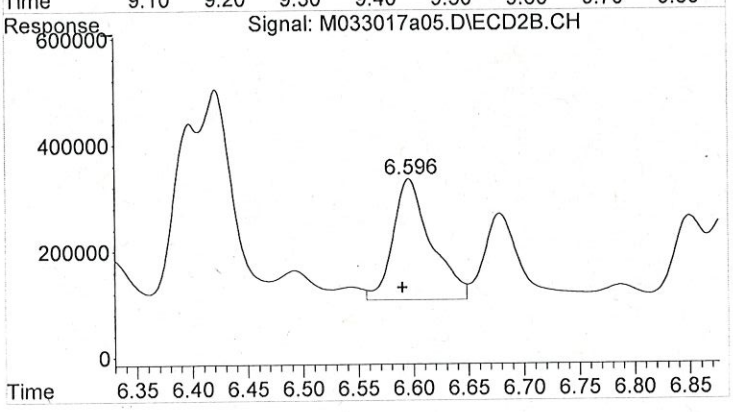
#4 1242-4

R.T.: 6.420 min
Delta R.T.: -0.020 min
Response: 386223
Conc: 257.20 pg/uL



#5 1242-5

R.T.: 9.458 min
Delta R.T.: -0.002 min
Response: 95101
Conc: 251.62 pg/uL



#5 1242-5

R.T.: 6.597 min
Delta R.T.: 0.007 min
Response: 225852
Conc: 260.06 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 12:20 pm
Operator : DWOOD
Sample : 87PCB081916E
Misc : PCB 1242 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 6 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:31:32 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

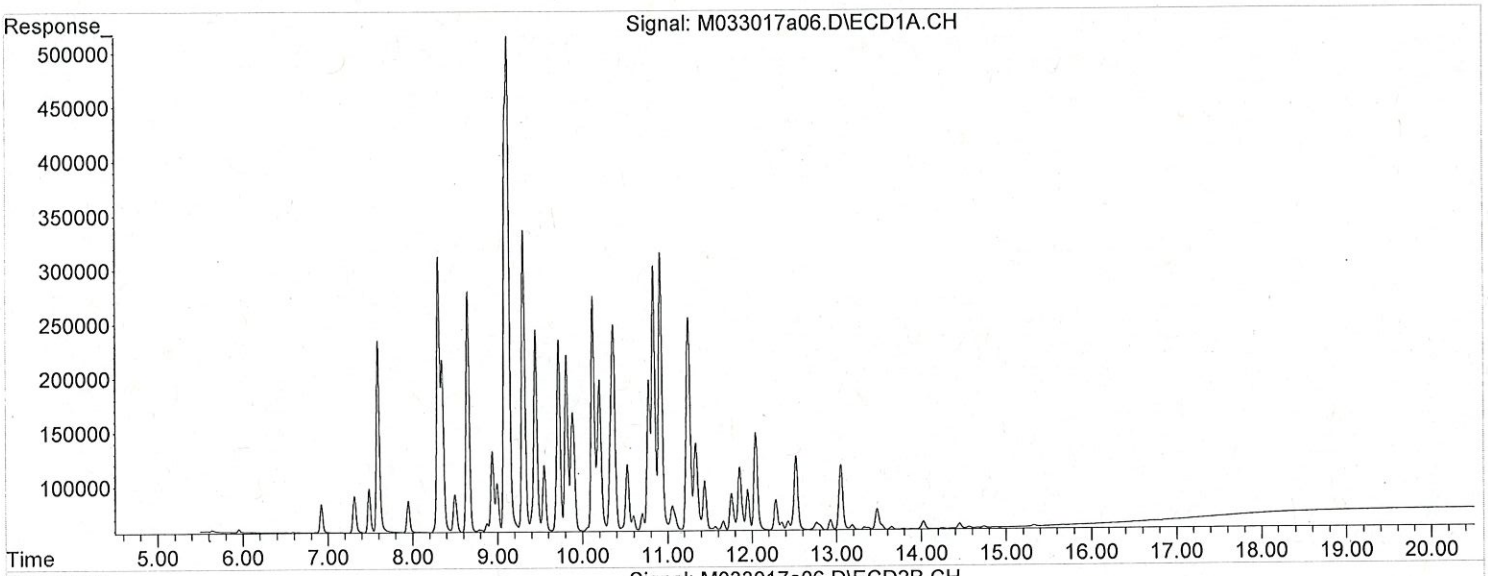
Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

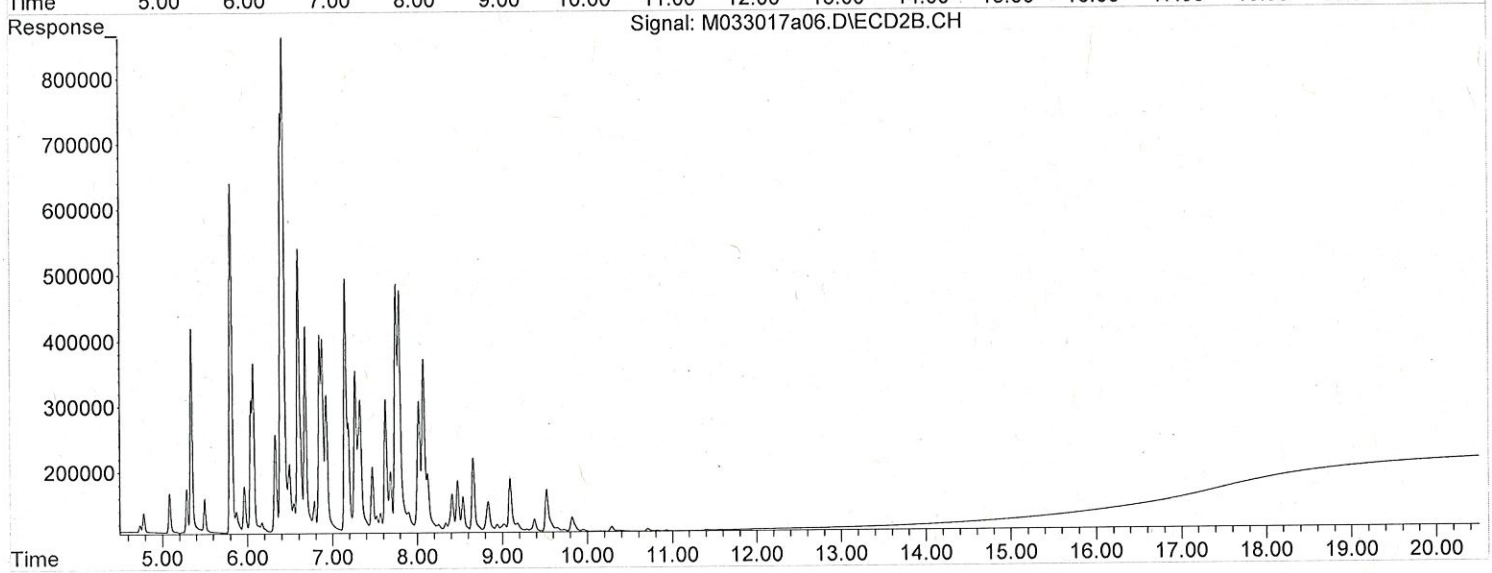
Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1242 -1	8.309	5.342	252722	310135	490.916	497.448
2) L1 1242-2	8.654	5.807	220176	530807	488.102	498.638
3) L1 1242-3	9.124	6.069	456618	259333	496.680	493.558
4) L1 1242-4	9.308	6.419	276490	738677	483.915	491.393
5) L1 1242-5	9.450	6.595	186025	428320	498.448	493.304
Sum 1242 -1			1392031	2267271	2458.061	2474.341
Average 1242 -1					491.612	494.868

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW
3/30/17

File :J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a0
... 6.D
Operator : DWOOD
Instrument : Minerva
Acquired : 30 Mar 2017 12:20 pm using AcqMethod M012116PCB2B.M
Sample Name: 87PCB081916E
Misc Info : PCB 1242 ICAL 500 pg/uL





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 12:20 pm
Operator : DWOOD
Sample : 87PCB081916E
Misc : PCB 1242 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 6 (Sig #2) Sample Multiplier: 1

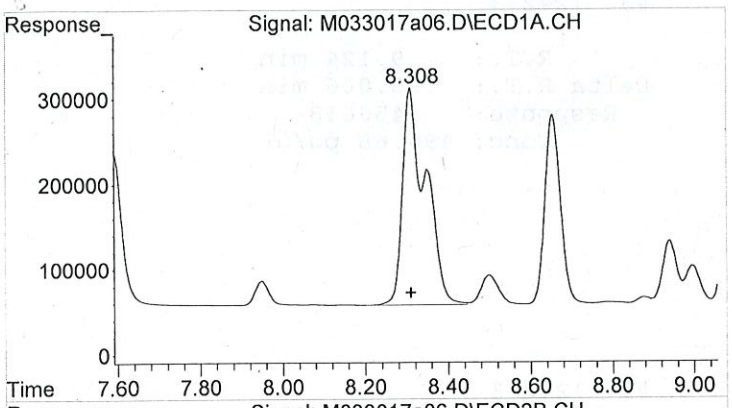
Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:23:00 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Mar 29 09:30:06 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
Target Compounds							
1) L1 1242 -1	8.309	5.342	252722	310135	584.273	1319.715	#
2) L1 1242-2	8.654	5.807	220176	530807	448.976	1004.288	#
3) L1 1242-3	9.124	6.069	456618	259333	759.587	1500.863	#
4) L1 1242-4	9.308	6.419	276490	738677	1105.882	2679.917	#
5) L1 1242-5	9.450	6.595	186025	428320	697.029	2314.357	#
Sum 1242 -1			1392031	2267271	3595.747	8819.141	
Average 1242 -1					719.149	1763.828	

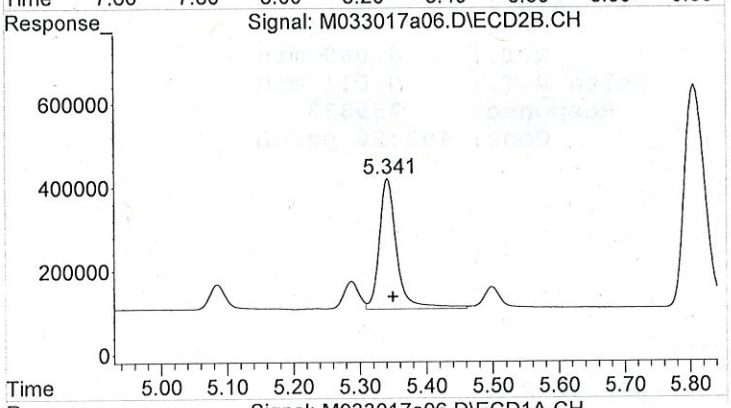
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

LW
3/30/17



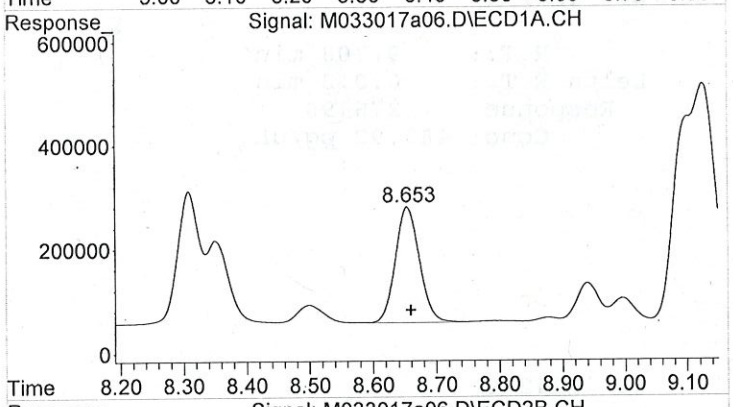
#1 1242 -1

R.T.: 8.309 min
Delta R.T.: -0.001 min
Response: 252722
Conc: 490.92 pg/uL



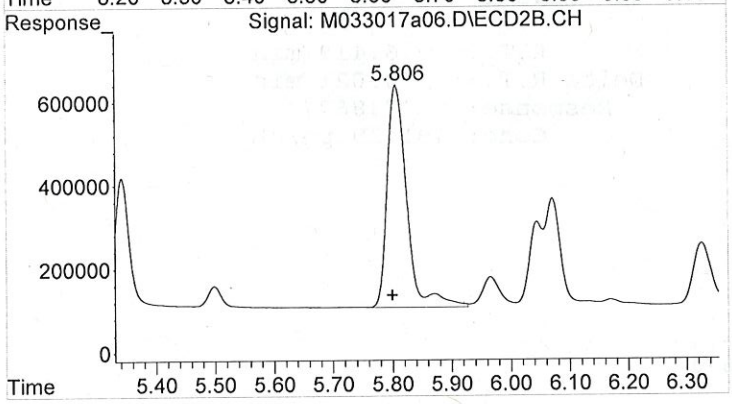
#1 1242 -1

R.T.: 5.342 min
Delta R.T.: -0.008 min
Response: 310135
Conc: 497.45 pg/uL



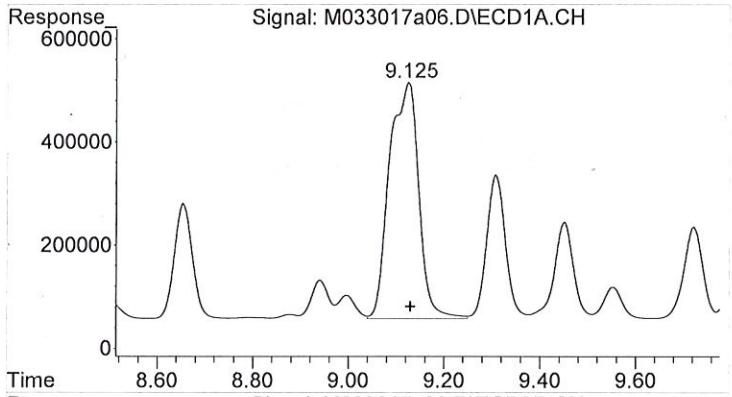
#2 1242-2

R.T.: 8.654 min
Delta R.T.: -0.006 min
Response: 220176
Conc: 488.10 pg/uL



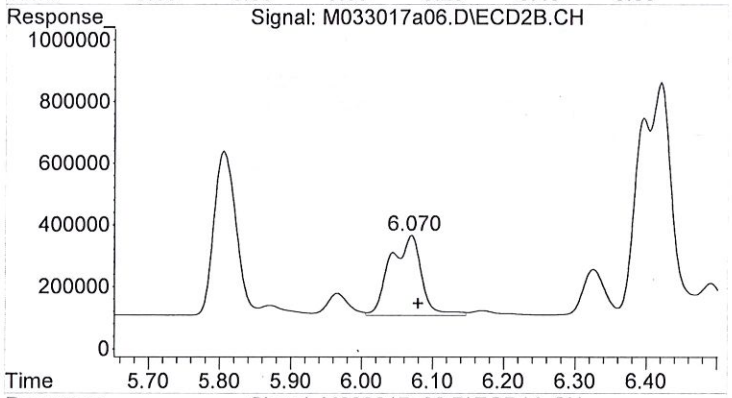
#2 1242-2

R.T.: 5.807 min
Delta R.T.: 0.007 min
Response: 530807
Conc: 498.64 pg/uL



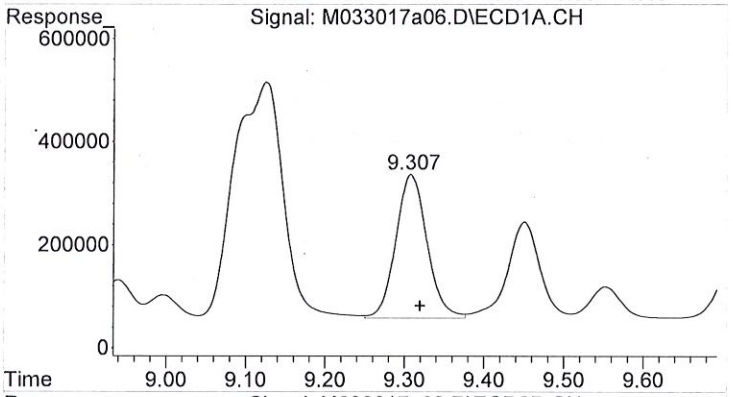
#3 1242-3

R.T.: 9.124 min
Delta R.T.: -0.006 min
Response: 456618
Conc: 496.68 pg/uL



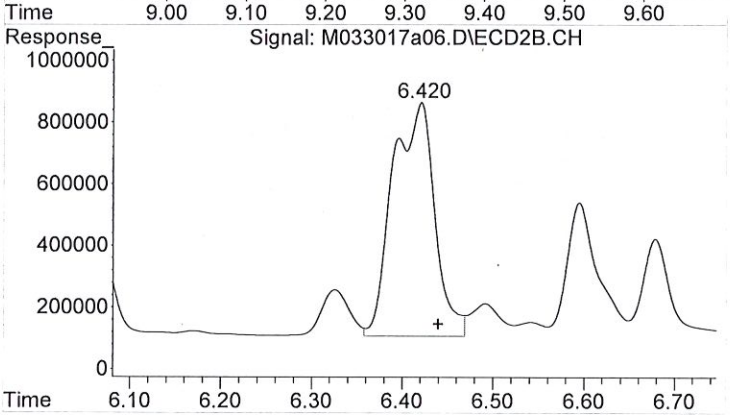
#3 1242-3

R.T.: 6.069 min
Delta R.T.: -0.011 min
Response: 259333
Conc: 493.56 pg/uL



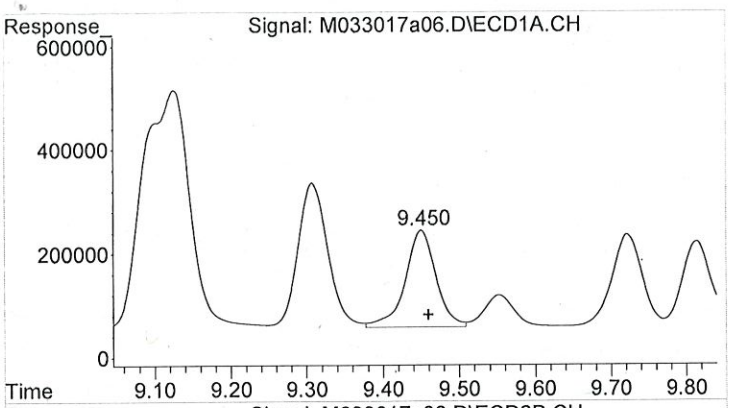
#4 1242-4

R.T.: 9.308 min
Delta R.T.: -0.012 min
Response: 276490
Conc: 483.92 pg/uL



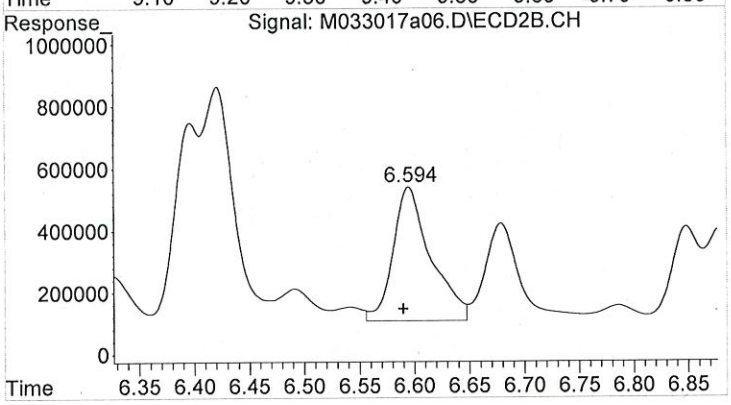
#4 1242-4

R.T.: 6.419 min
Delta R.T.: -0.021 min
Response: 738677
Conc: 491.39 pg/uL



#5 1242-5

R.T.: 9.450 min
Delta R.T.: -0.010 min
Response: 186025
Conc: 498.45 pg/uL



#5 1242-5

R.T.: 6.595 min
Delta R.T.: 0.005 min
Response: 428320
Conc: 493.30 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 12:45 pm
Operator : DWOOD
Sample : 87PCB081916F
Misc : PCB 1242 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 7 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:31:38 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

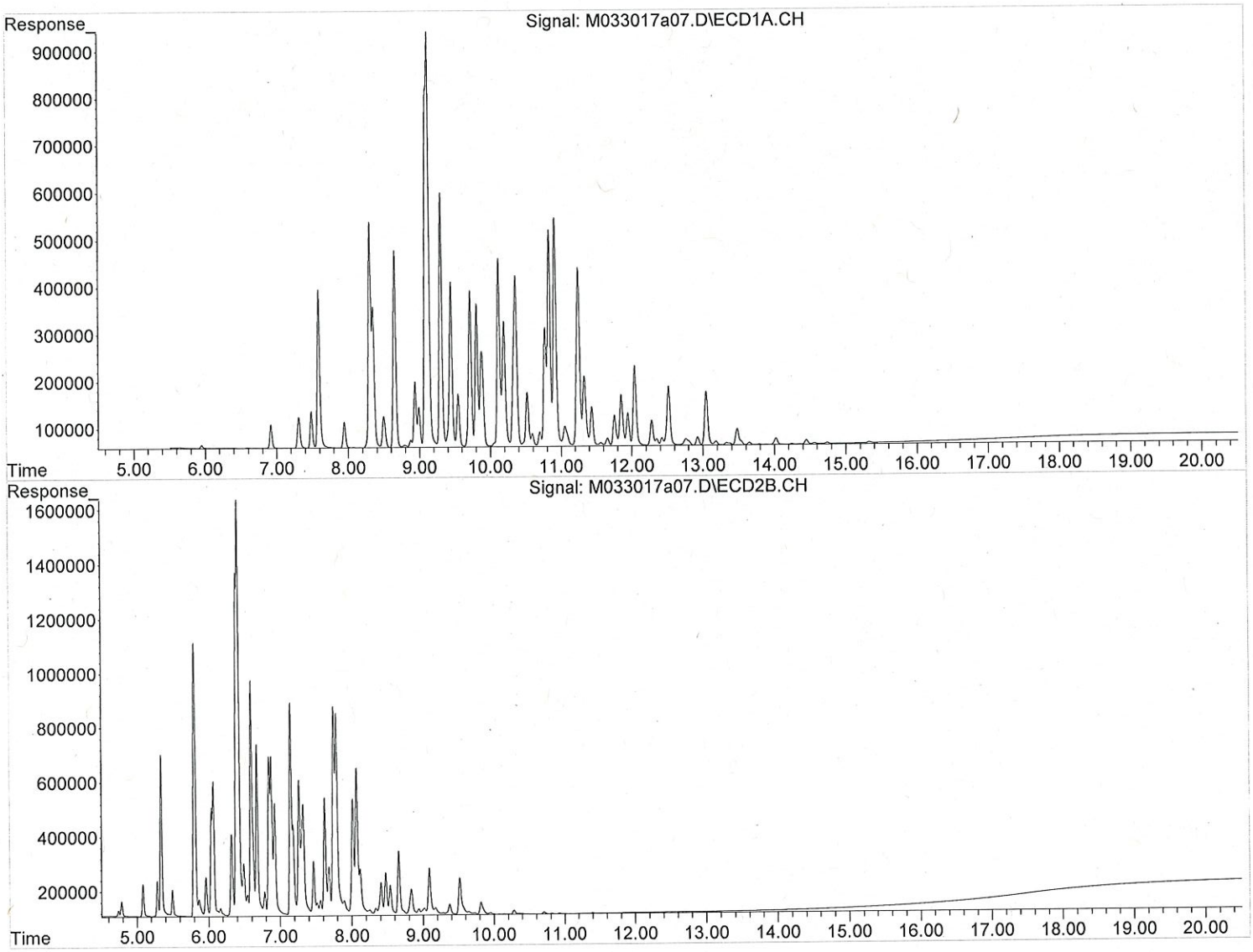
Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1242 -1	8.306	5.340	474239	586724	930.443	945.046
2) L1 1242-2	8.651	5.804	417764	1003040	934.594	947.029
3) L1 1242-3	9.115	6.068	862026	501297	943.553	958.263
4) L1 1242-4	9.304	6.416	538923	1536006	951.359	1021.185
5) L1 1242-5	9.447	6.592	350480	863716	944.885	994.885
Sum 1242 -1			2643431	4490783	4704.834	4866.407
Average 1242 -1					940.967	973.281

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

hw
3/30/17

File :J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a0
... 7.D
Operator : DWOOD
Instrument : Minerva
Acquired : 30 Mar 2017 12:45 pm using AcqMethod M012116PCB2B.M
Sample Name: 87PCB081916F
Misc Info : PCB 1242 ICAL 1000 pg/uL



Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 12:45 pm
Operator : DWOOD
Sample : 87PCB081916F
Misc : PCB 1242 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 7 (Sig #2) Sample Multiplier: 1

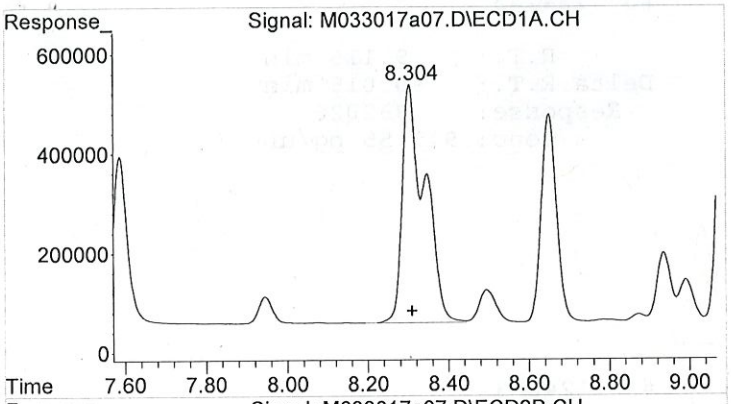
Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:23:07 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Mar 29 09:30:06 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1242 -1	8.306	5.340	474239	586724	1096.403	2496.685 #
2) L1 1242-2	8.651	5.804	417764	1003040	851.891	1897.754 #
3) L1 1242-3	9.115	6.068	862026	501297	1433.985	2901.210 #
4) L1 1242-4	9.304	6.416	538923	1536006	2155.537	5572.620 #
5) L1 1242-5	9.447	6.592	350480	863716	1313.238	4666.955 #
Sum 1242 -1			2643431	4490783	6851.054	17535.225
Average 1242 -1					1370.211	3507.045

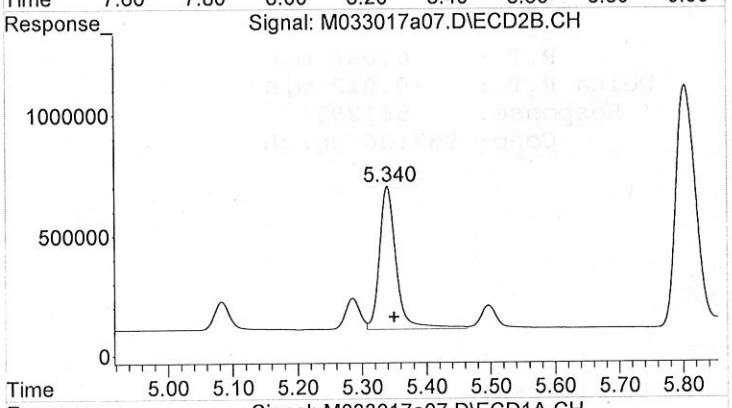
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
3/30/17



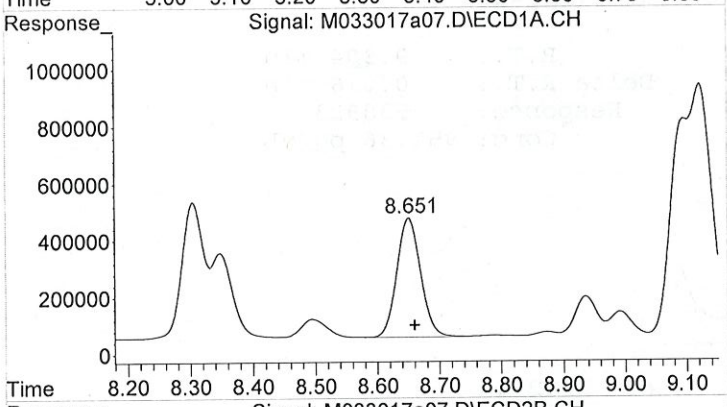
#1 1242 -1

R.T.: 8.306 min
Delta R.T.: -0.004 min
Response: 474239
Conc: 930.44 pg/uL



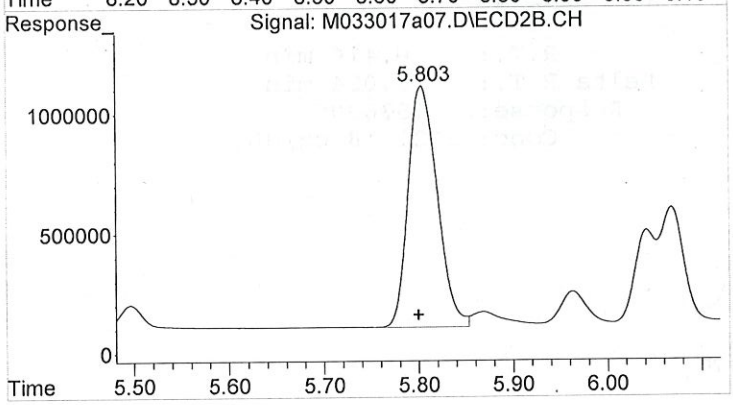
#1 1242 -1

R.T.: 5.340 min
Delta R.T.: -0.010 min
Response: 586724
Conc: 945.05 pg/uL



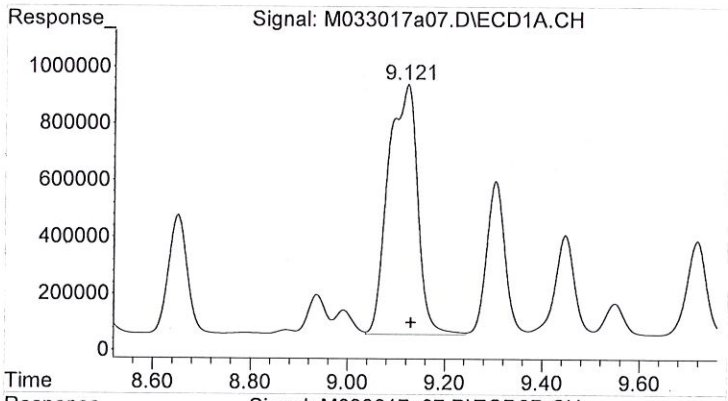
#2 1242-2

R.T.: 8.651 min
Delta R.T.: -0.009 min
Response: 417764
Conc: 934.59 pg/uL



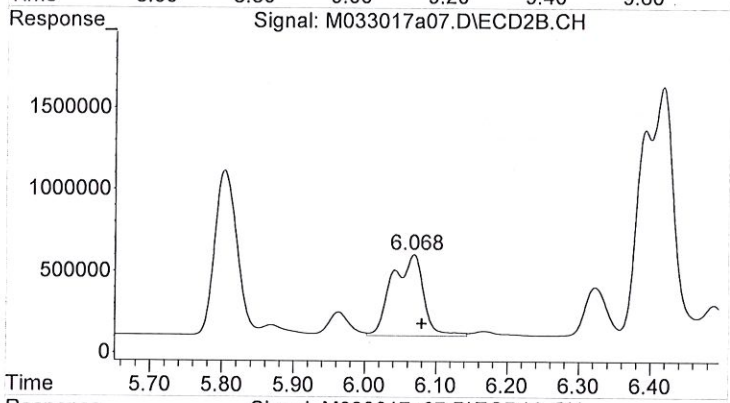
#2 1242-2

R.T.: 5.804 min
Delta R.T.: 0.004 min
Response: 1003040
Conc: 947.03 pg/uL



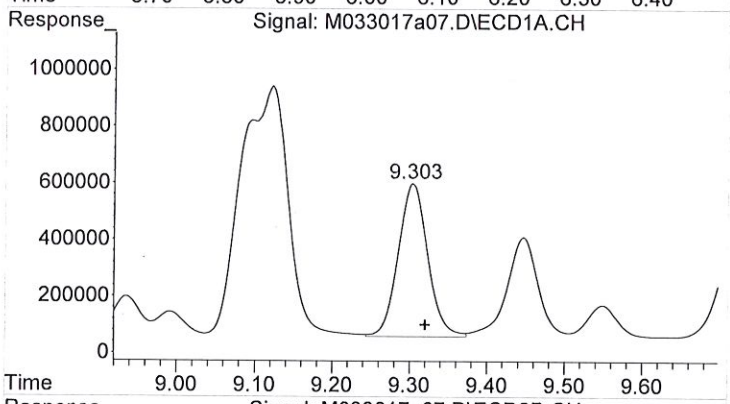
#3 1242-3

R.T.: 9.115 min
Delta R.T.: -0.015 min
Response: 862026
Conc: 943.55 pg/uL



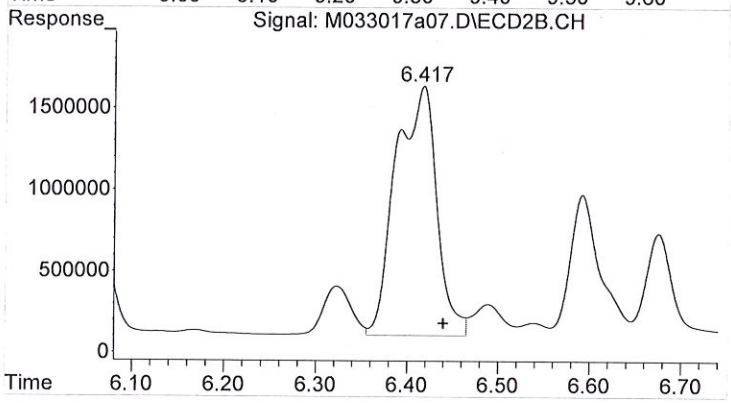
#3 1242-3

R.T.: 6.068 min
Delta R.T.: -0.012 min
Response: 501297
Conc: 958.26 pg/uL



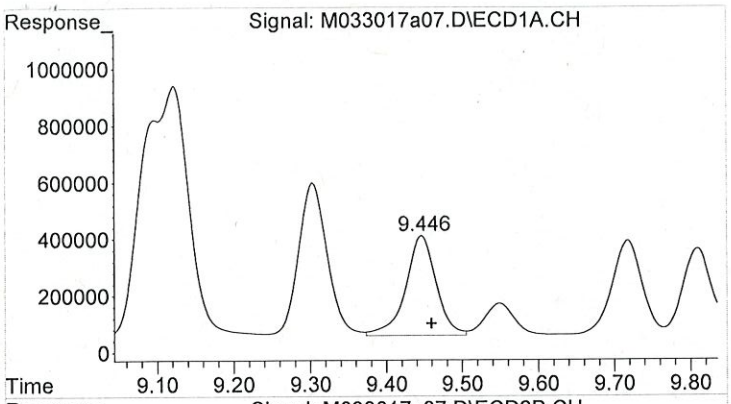
#4 1242-4

R.T.: 9.304 min
Delta R.T.: -0.016 min
Response: 538923
Conc: 951.36 pg/uL



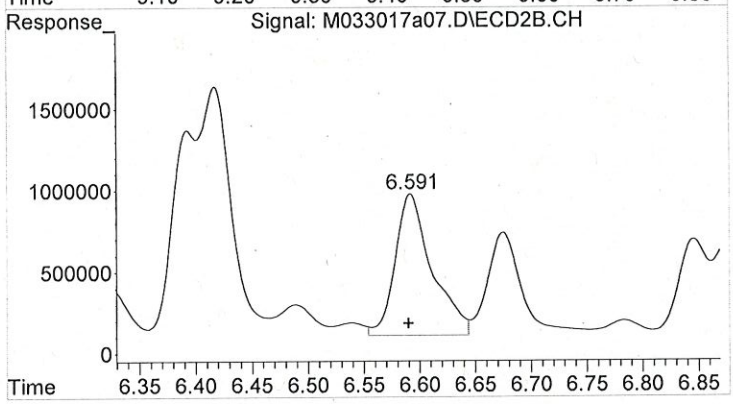
#4 1242-4

R.T.: 6.416 min
Delta R.T.: -0.024 min
Response: 1536006
Conc: 1021.18 pg/uL



#5 1242-5

R.T.: 9.447 min
Delta R.T.: -0.013 min
Response: 350480
Conc: 944.88 pg/uL



#5 1242-5

R.T.: 6.592 min
Delta R.T.: 0.002 min
Response: 863716
Conc: 994.88 pg/uL

PCB SSV Report

Data File....: M033017a08.D
Dataname.....: 87PCB110116C
Analyzed.....: 03/30/2017 13:09

Analyst.....: DWOOD
Instrument.....: Minerva
Analysis Method: 8082A

SSV Level..: 100 pg/uL
ICAL Date..: 03/30/2017

Datafile path....: J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a08.D
DP Method path...: J:\Organics\Minerva\Methods\M033017PCB1242.M

PCB 1242 SSV Std 100pg/uL

CAS #	Compound	RT	Exp RT	Area	Spike (expected)	Amount (pg)	%Rec	Flag
Surrogate								
Target					Criteria range: 70-130%			
	1242 -1	8.31	8.31	53848	100	96.3	96	
	1242-2	8.65	8.66	45269	100	92.9	93	
	1242-3	9.12	9.13	89222	100	91.7	92	
	1242-4	9.30	9.32	56664	100	92.4	92	
	1242-5	9.45	9.46	35840	100	90.8	91	
	1242 -1 #2	5.34	5.35	66076	100	102	102	
	1242-2 #2	5.81	5.80	107432	100	96.6	97	
	1242-3 #2	6.07	6.08	51516	100	94.4	94	
	1242-4 #2	6.42	6.44	139918	100	93.5	94	
	1242-5 #2	6.59	6.59	80753	100	92.9	93	

Average %Recovery:	%Rec
1242 Column 1 (n=5)	93
1242 Column 2 (n=5)	96

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 13:09 pm
Operator : DWOOD
Sample : 87PCB110116C
Misc : PCB 1242 SSV Std 100pg/uL
ALS Vial : 0 (Sig #1); 8 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:34:47 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1242 -1	8.306	5.342	53848	66076	96.317	102.493
2) L1 1242-2	8.651	5.805	45269	107432	92.862	96.639
3) L1 1242-3	9.122	6.068	89222	51516	91.705	94.436
4) L1 1242-4	9.305	6.417	56664	139918	92.361	93.542
5) L1 1242-5	9.448	6.594	35840	80753	90.751	92.904
Sum 1242 -1			280843	445695	463.997	480.014
Average 1242 -1					92.799	96.003

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
3/30/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 13:09 pm
Operator : DWOOD
Sample : 87PCB110116C
Misc : PCB 1242 SSV Std 100pg/uL
ALS Vial : 0 (Sig #1); 8 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:34:47 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1242 -1	8.306	5.342	53848	66076	96.317	102.493
2) L1 1242-2	8.651	5.805	45269	107432	92.862	96.639
3) L1 1242-3	9.122	6.068	89222	51516	91.705	94.436
4) L1 1242-4	9.305	6.417	56664	139918	92.361	93.542
5) L1 1242-5	9.448	6.594	35840	80753	90.751	92.904
Sum 1242 -1			280843	445695	463.997	480.014
Average 1242 -1					92.799	96.003

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

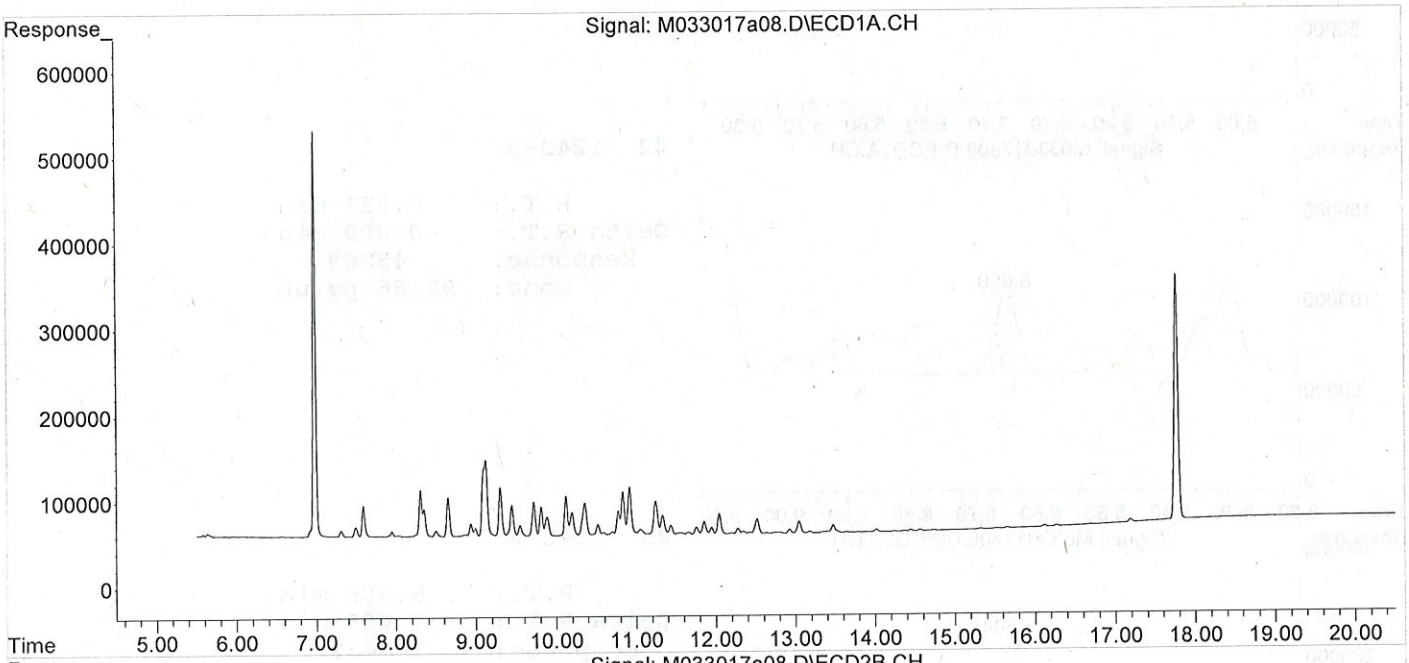
hw
3/30/17

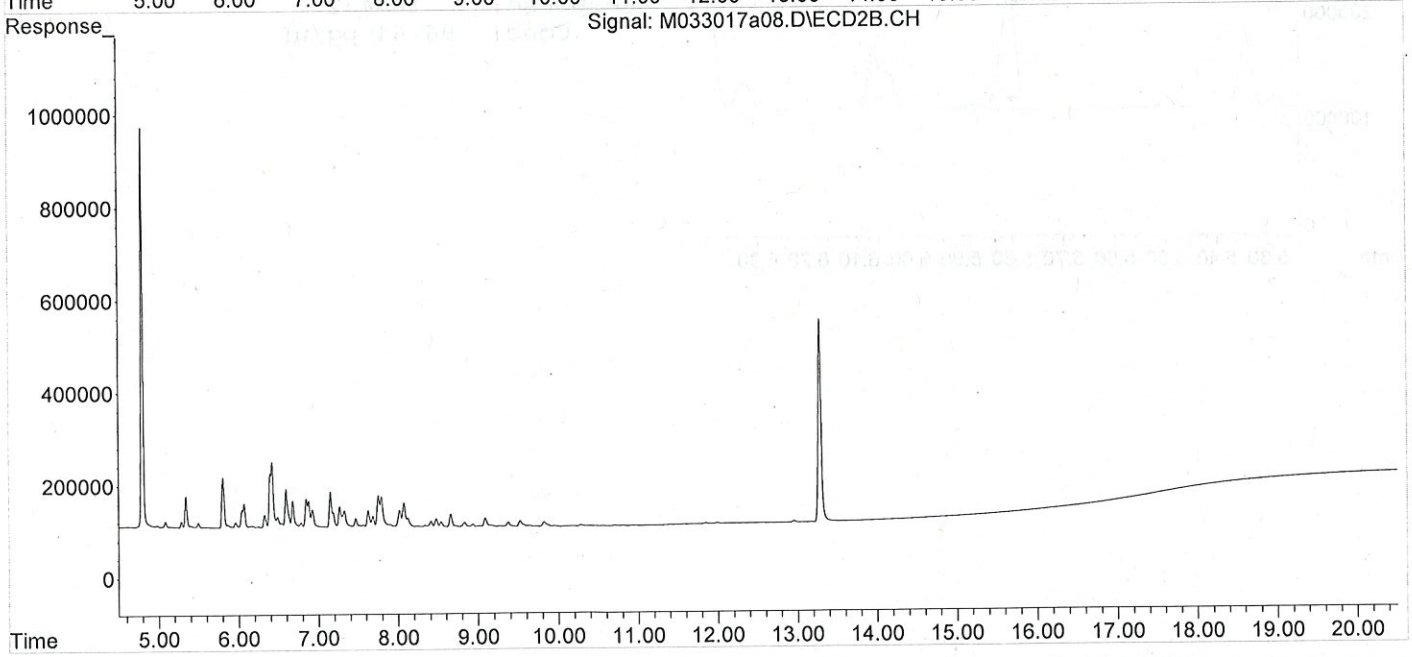
Quantitation Report (QT Reviewed)

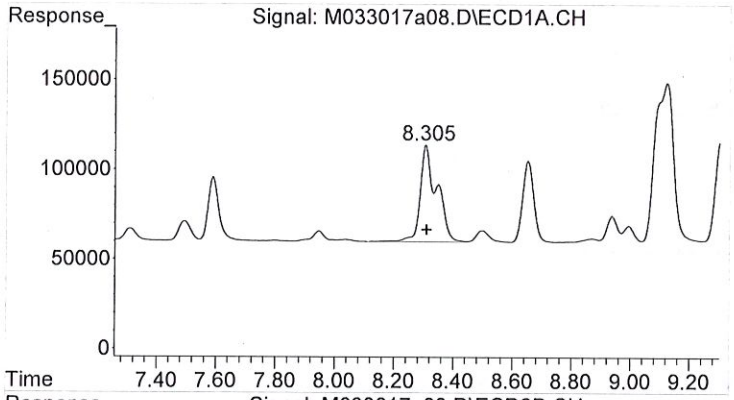
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 13:09 pm
Operator : DWOOD
Sample : 87PCB110116C
Misc : PCB 1242 SSV Std 100pg/uL
ALS Vial : 0 (Sig #1); 8 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 30 14:34:47 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

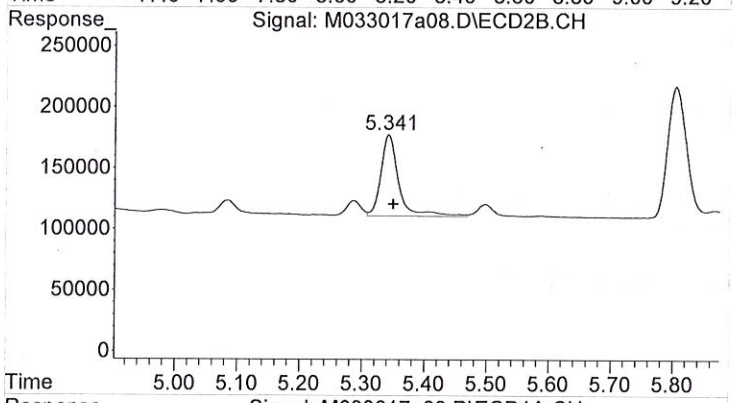






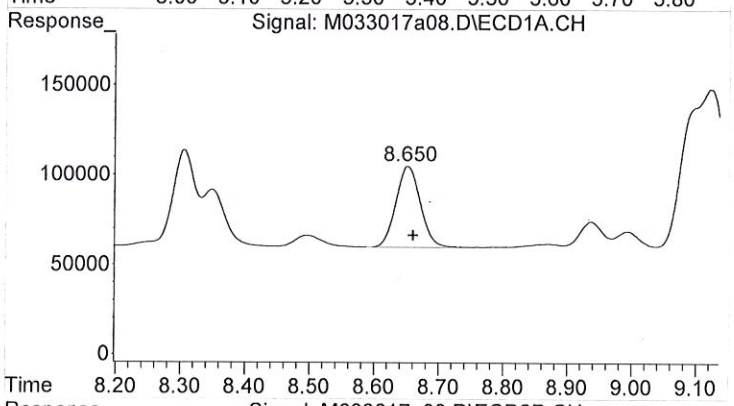
#1 1242 -1

R.T.: 8.306 min
Delta R.T.: -0.004 min
Response: 53848
Conc: 96.32 pg/uL



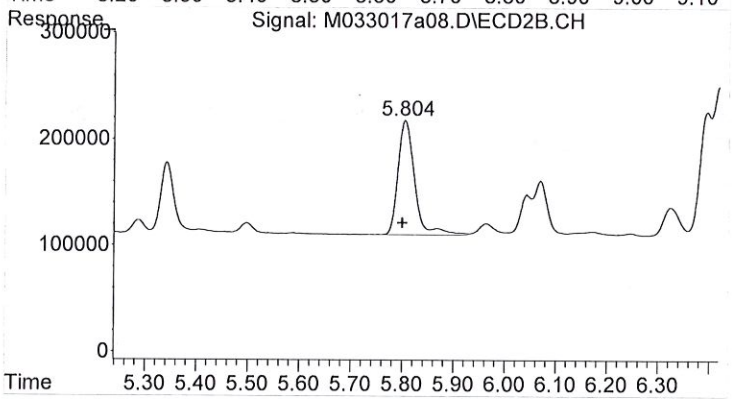
#1 1242 -1

R.T.: 5.342 min
Delta R.T.: -0.008 min
Response: 66076
Conc: 102.49 pg/uL



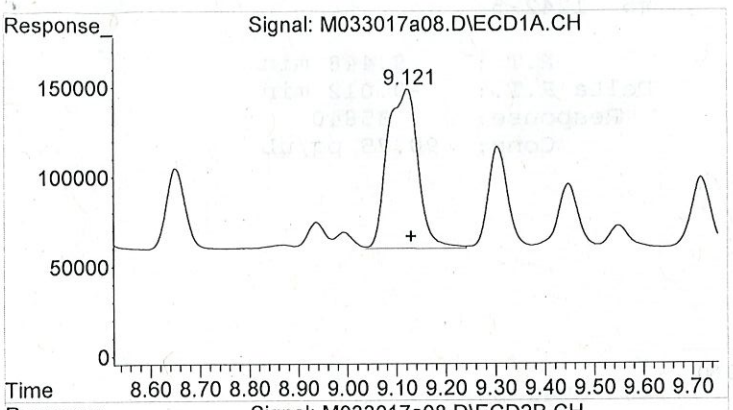
#2 1242-2

R.T.: 8.651 min
Delta R.T.: -0.009 min
Response: 45269
Conc: 92.86 pg/uL



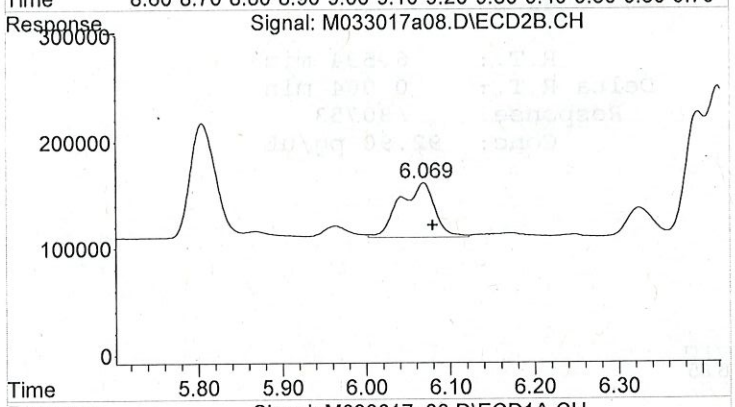
#2 1242-2

R.T.: 5.805 min
Delta R.T.: 0.005 min
Response: 107432
Conc: 96.64 pg/uL



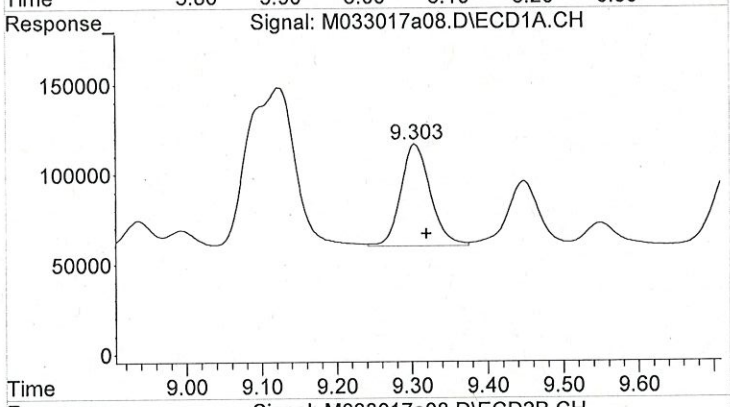
#3 1242-3

R.T.: 9.122 min
Delta R.T.: -0.008 min
Response: 89222
Conc: 91.70 pg/uL



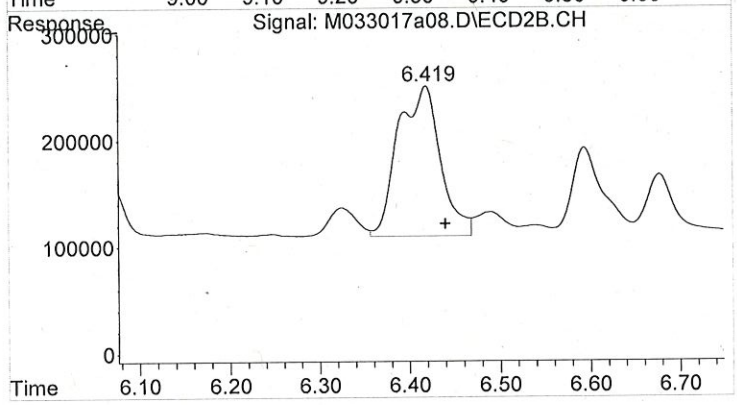
#3 1242-3

R.T.: 6.068 min
Delta R.T.: -0.012 min
Response: 51516
Conc: 94.44 pg/uL



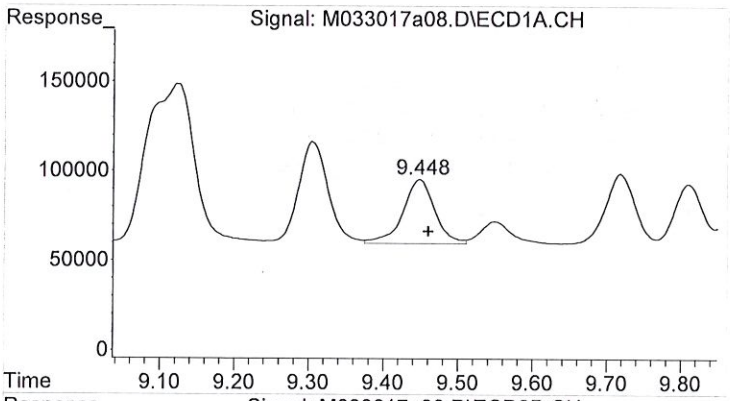
#4 1242-4

R.T.: 9.305 min
Delta R.T.: -0.015 min
Response: 56664
Conc: 92.36 pg/uL



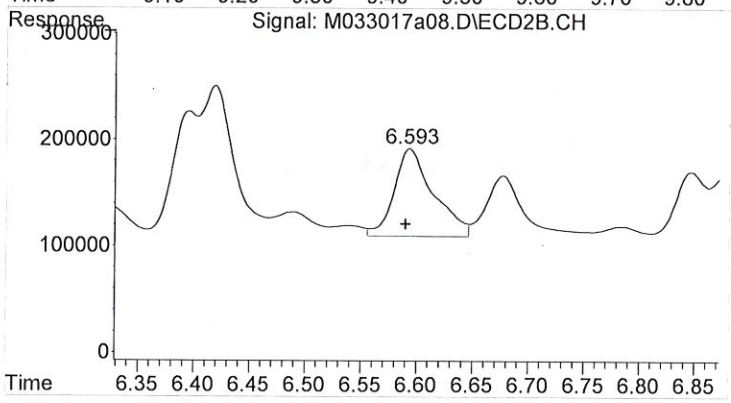
#4 1242-4

R.T.: 6.417 min
Delta R.T.: -0.023 min
Response: 139918
Conc: 93.54 pg/uL



#5 1242-5

R.T.: 9.448 min
Delta R.T.: -0.012 min
Response: 35840
Conc: 90.75 pg/uL



#5 1242-5

R.T.: 6.594 min
Delta R.T.: 0.004 min
Response: 80753
Conc: 92.90 pg/uL

Analysis Log Method: Analyst: DWOOD Initial:

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
30 Mar 2017 9:29 am	M033017a01.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 9:54 am	M033017a02.D	87PCB081916A	PCB 1242 ICAL 25 pg/uL	.
30 Mar 2017 10:18 am	M033017a03.D	87PCB081916B	PCB 1242 ICAL 50 pg/uL	.
30 Mar 2017 10:43 am	M033017a04.D	87PCB081916C	PCB 1242 ICAL 100 pg/uL	.
30 Mar 2017 11:56 am	M033017a05.D	87PCB081916D	PCB 1242 ICAL 250 pg/uL	.
30 Mar 2017 12:20 pm	M033017a06.D	87PCB081916E	PCB 1242 ICAL 500 pg/uL	.
30 Mar 2017 12:45 pm	M033017a07.D	87PCB081916F	PCB 1242 ICAL 1000 pg/uL	.
30 Mar 2017 13:09 pm	M033017a08.D	87PCB110116C	PCB 1242 SSV Std 100pg/uL	.
30 Mar 2017 13:34 pm	M033017a09.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 13:59 pm	M033017a10.D	87PCB083016A	PCB 1254 ICAL 25 pg/uL	.
30 Mar 2017 15:04 pm	M033017a11.D	87PCB083016B	PCB 1254 ICAL 50 pg/uL	.
30 Mar 2017 15:28 pm	M033017a12.D	87PCB083016C	PCB 1254 ICAL 100 pg/uL	.
30 Mar 2017 15:53 pm	M033017a13.D	87PCB083016D	PCB 1254 ICAL 250 pg/uL	.
30 Mar 2017 16:18 pm	M033017a14.D	87PCB083016E	PCB 1254 ICAL 500 pg/uL	.
30 Mar 2017 16:42 pm	M033017a15.D	87PCB083016F	PCB 1254 ICAL 1000 pg/uL	.
30 Mar 2017 17:07 pm	M033017a16.D	87PCB110116E	PCB 1254 Std 100pg/uL	.
30 Mar 2017 17:32 pm	M033017a17.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 17:56 pm	M033017a18.D	87PCB081916C	PCB 1242 Cont Cal 100 pg/uL	.
30 Mar 2017 18:21 pm	M033017a19.D	87PCB083016C	PCB 1254 Cont Cal 100 pg/uL	.
30 Mar 2017 18:45 pm	M033017a20.D	17104001	Sky Valley PCB PUF 2mL fv	.
30 Mar 2017 19:10 pm	M033017a21.D	17104005	Sky Valley PCB PUF 2mL fv	.
30 Mar 2017 19:35 pm	M033017a22.D	17114000	Sky Valley PCB PUF 2mL fv	.
30 Mar 2017 19:59 pm	M033017a23.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 20:24 pm	M033017a24.D	87PCB081916C	PCB 1242 Cont Cal 100 pg/uL	.
30 Mar 2017 20:49 pm	M033017a25.D	87PCB083016C	PCB 1254 Cont Cal 100 pg/uL	.

Calibration Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M033017PCB1254.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Fri Mar 31 07:30:01 2017
Response Via : Initial Calibration

Calibration Files
1 =M033017a10 2 =M033017a11 3 =M033017a12 4 =M033017a13 5 =M033017a14
6 =M033017a15

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	L1 1254 -1	Lin	9.2663 e3	1.0579 e3	-----	0.9950
2)	L1 1254-2	Lin	2.6526 e3	3.2973 e2	-----	0.9944
3)	L1 1254-3	Lin	4.9008 e3	6.8434 e2	-----	0.9974
4)	L1 1254-4	Lin	1.0962 e3	2.2995 e2	-----	0.9966
5)	L1 1254-5	Lin	9.4254 e3	1.2210 e3	-----	0.9969

Signal #2

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	L1 1254 -1	Lin	3.2924 e3	1.2664 e3	-----	0.9981
2)	L1 1254-2	Lin	2.2790 e3	1.6144 e3	-----	0.9965
3)	L1 1254-3	Lin	-9.5290 e2	1.1641 e3	-----	0.9980
4)	L1 1254-4	Lin	-4.2904 e3	2.0960 e3	-----	0.9972
5)	L1 1254-5	Lin	1.0710 e3	7.5582 e2	-----	0.9976

M033017PCB1254.M Fri Mar 31 07:47:45 2017

Calibration Status Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M033017PCB1254.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Fri Mar 31 07:30:01 2017
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	25	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a10.D
2	2	50	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a11.D
3	3	100	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a12.D
4	4	250	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a13.D
5	5	500	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a14.D
6	6	1000	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a15.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Mar 31 07:27 2017	Mar 31 07:22 2017	30 Mar 2017 13:59 pm
2	2	Mar 31 07:27 2017	Mar 31 07:22 2017	30 Mar 2017 15:04 pm
3	3	Mar 31 07:28 2017	Mar 31 07:22 2017	30 Mar 2017 15:28 pm
4	4	Mar 31 07:28 2017	Mar 31 07:22 2017	30 Mar 2017 15:53 pm
5	5	Mar 31 07:28 2017	Mar 31 07:22 2017	30 Mar 2017 16:18 pm
6	6	Mar 31 07:29 2017	Mar 31 07:22 2017	30 Mar 2017 16:42 pm

M033017PCB1254.M Fri Mar 31 07:47:34 2017

Compound List Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M033017PCB1254.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Fri Mar 31 07:30:01 2017
Response Via : Initial Calibration

Total Cpnds : 11

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	L1	1254 -1	11.340	1.000	L	H	R
2	L1	1254-2	11.770	1.000	L	H	R
3	L1	1254-3	11.860	1.000	L	H	R
4	L1	1254-4	11.960	1.000	L	H	R
5	L1	1254-5	12.060	1.000	L	H	R
6	L2	Signal #2	0.000	1.000	L	H	R
7	L1	1254 -1 #2	7.690	1.000	L	H	R
8	L1	1254-2 #2	8.070	1.000	L	H	R
9	L1	1254-3 #2	8.480	1.000	L	H	R
10	L1	1254-4 #2	8.660	1.000	L	H	R
11	L1	1254-5 #2	8.940	1.000	L	H	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

M033017PCB1254.M Fri Mar 31 07:47:21 2017

	ICAL Series	M033017a10.D		through	M033017a15.D			
	Last Calibration Update	Fri Mar 31 07:30:01 2017						
		25	50	100	250	500	1000	
	Analyte	%Difference from expected						
1	1254 -1	-5.0	7.3	6.4	-0.2	-2.4	-6.2	
2	1254-2	-4.1	4.8	7.3	0.4	1.0	-9.4	
3	1254-3	-3.1	3.9	6.3	-2.1	-1.5	-3.4	
4	1254-4	-3.7	4.9	6.0	-0.6	-0.5	-6.0	
5	1254-5	-3.9	5.7	5.2	-0.2	-2.1	-4.6	
6	Signal #2							
7	1254 -1 #2	-2.7	3.3	4.2	1.7	-2.8	-3.9	
8	1254-2 #2	-3.8	4.9	6.8	-0.4	-3.2	-4.2	
9	1254-3 #2	-2.2	2.2	5.8	-3.2	0.3	-3.0	
10	1254-4 #2	-3.5	5.0	4.7	0.2	-1.1	-5.3	
11	1254-5 #2	-2.7	2.6	6.5	-0.3	-2.5	-3.7	

ICAL Series M033017a10.D through M033017a15.D
Last Calibration Update Fri Mar 31 07:30:01 2017

		Concentration	25	50	100	250	500	1000	0.000
1	0	1254 -1	23.76049	53.6515	106.3908	249.5866	487.917	938.4558	
2	0	1254-2	23.98126	52.40083	107.282	250.9842	504.9097	906.1659	
3	0	1254-3	24.21868	51.93165	106.2679	244.6477	492.469	966.4134	
4	0	1254-4	24.07165	52.45914	105.9748	248.4082	497.4636	939.6327	
5	0	1254-5	24.02649	52.83656	105.2127	249.4448	489.2592	953.8036	
6	0	Signal #2							
7	0	1254 -1 #2	24.33433	51.66371	104.24	254.3644	486.1511	961.1955	
8	0	1254-2 #2	24.04131	52.45297	106.7698	248.8829	483.8466	958.3812	
9	0	1254-3 #2	24.45378	51.10301	105.8311	242.0894	501.6896	969.7643	
10	0	1254-4 #2	24.12167	52.51811	104.6524	250.4518	494.597	947.2466	
11	0	1254-5 #2	24.32243	51.32437	106.5198	249.3675	487.3077	963.3336	

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 13:59 pm
Operator : DWOOD
Sample : 87PCB083016A
Misc : PCB 1254 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 9 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:30:20 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1254 -1	11.329	7.686	34402	34110	23.760	24.334
2) L1 1254-2	11.756	8.069	10560	41091	23.981	24.041
3) L1 1254-3	11.852	8.475	21475	27514	24.219	24.454
4) L1 1254-4	11.946	8.660	6631	46268	24.072	24.122
5) L1 1254-5	12.038	8.938	38761	19454	24.026	24.322
Sum 1254 -1			111830	168436	120.059	121.273
Average 1254 -1					24.012	24.255

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW
3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 13:59 pm
Operator : DWOOD
Sample : 87PCB083016A
Misc : PCB 1254 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 9 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:22:09 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Mar 29 12:04:39 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	0.000	0	0	N.D.	N.D.
7) S2 dcb	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) L1 1254 -1	11.329	7.686	34402	34110	26.290	17.761 #
3) L1 1254-2	11.756	8.069	10560	41091	9.446	48.489 #
4) L1 1254-3	11.852	8.475	21475	27514	31.018	20.146 #
5) L1 1254-4	11.946	8.660	6631	46268	8.159	30.662 #
6) L1 1254-5	12.038	8.938	38761	19454	133.055	11.697 #
Sum 1254 -1			111830	168436	207.969	128.755
Average 1254 -1					41.594	25.751

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

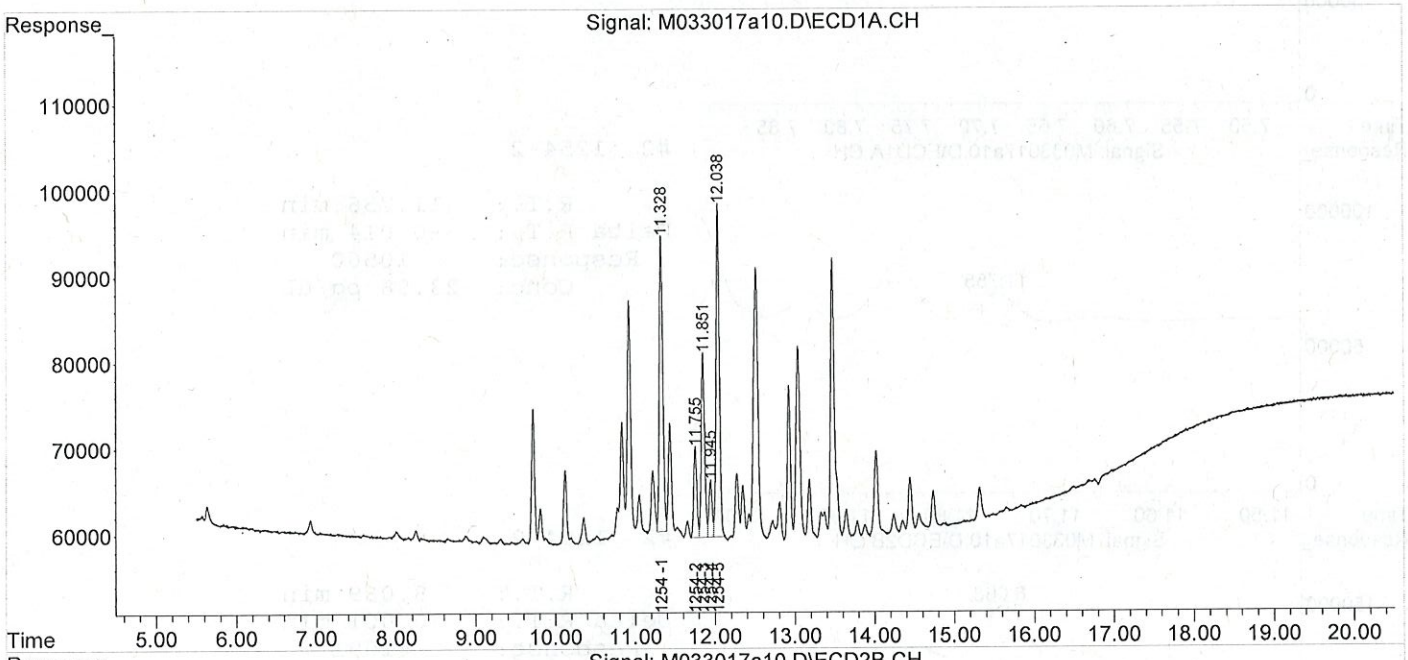
kw
3/31/17

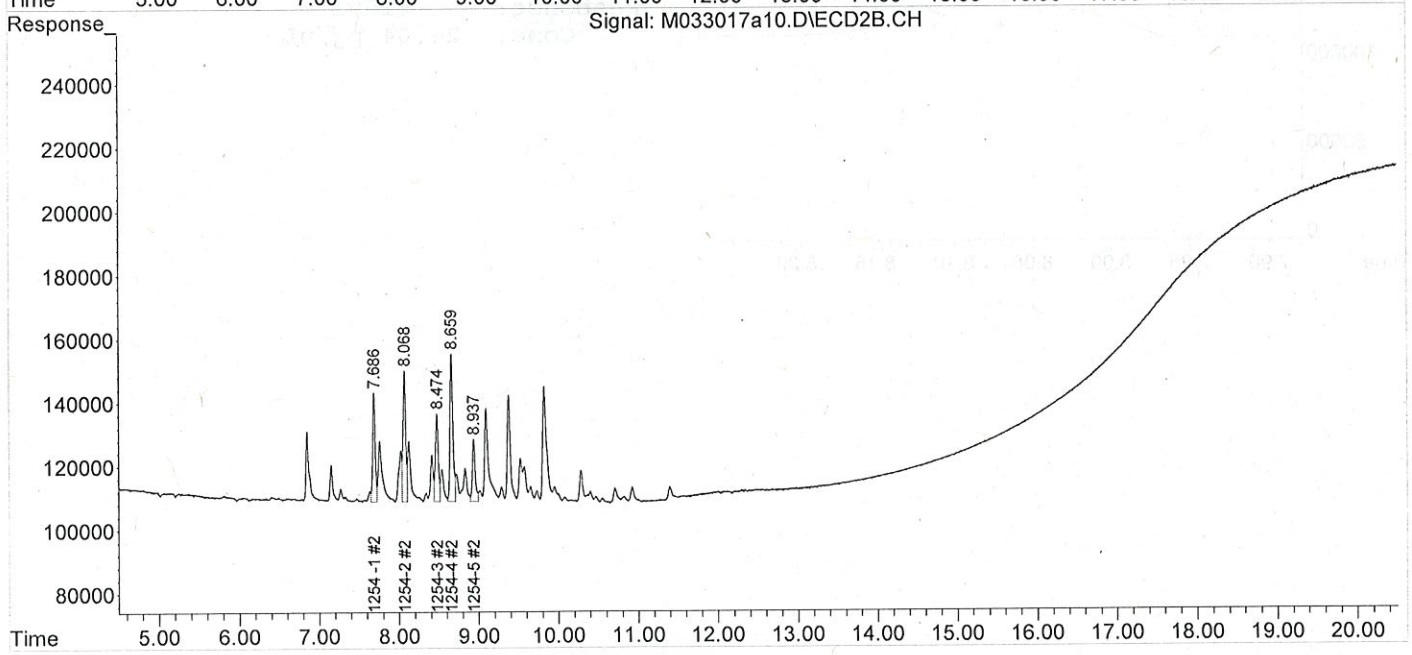
Quantitation Report (QT Reviewed)

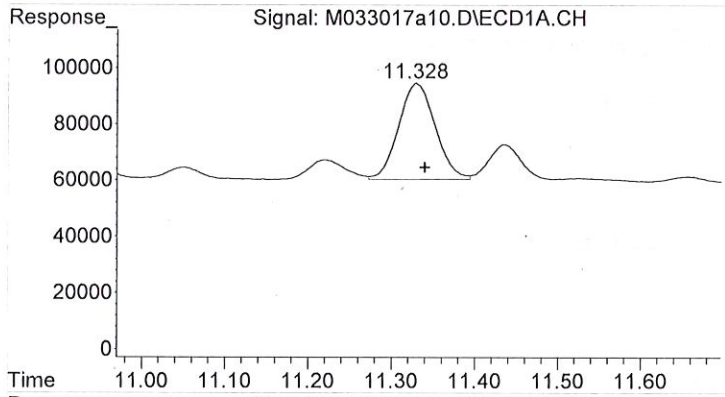
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 13:59 pm
Operator : DWOOD
Sample : 87PCB083016A
Misc : PCB 1254 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 9 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:30:20 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

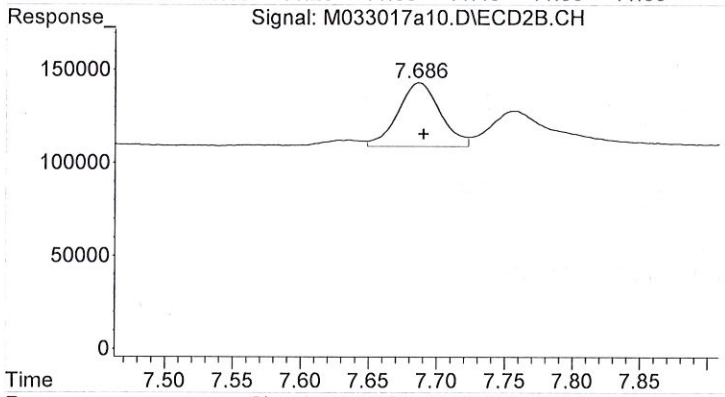






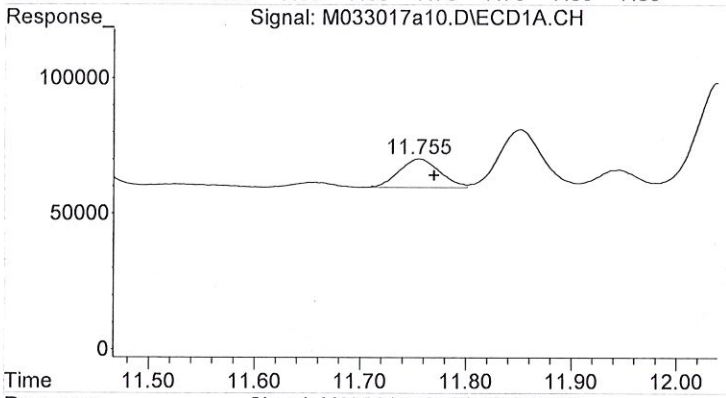
#1 1254 -1

R.T.: 11.329 min
Delta R.T.: -0.011 min
Response: 34402
Conc: 23.76 pg/uL



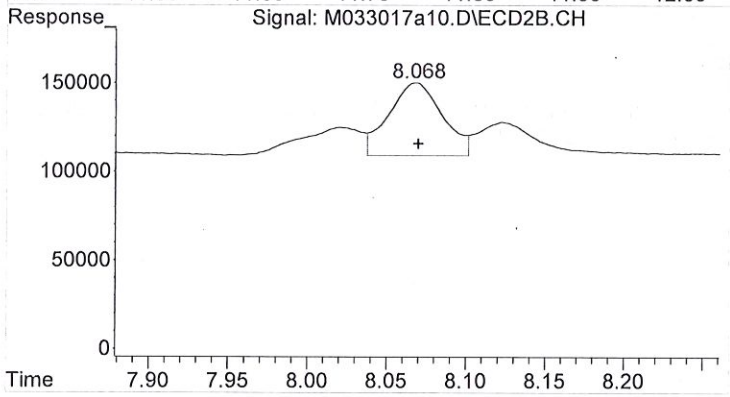
#1 1254 -1

R.T.: 7.686 min
Delta R.T.: -0.004 min
Response: 34110
Conc: 24.33 pg/uL



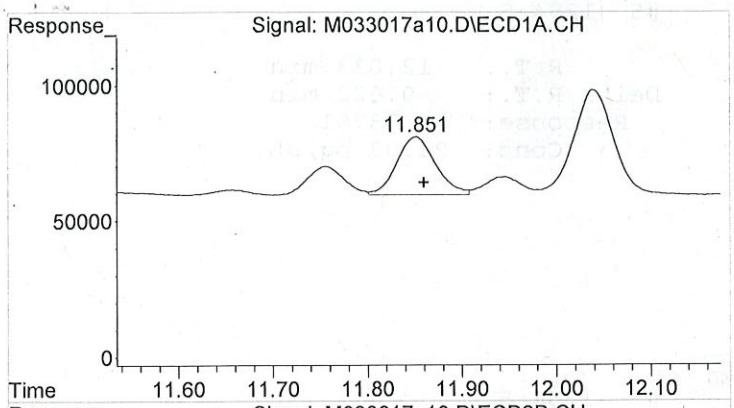
#2 1254-2

R.T.: 11.756 min
Delta R.T.: -0.014 min
Response: 10560
Conc: 23.98 pg/uL



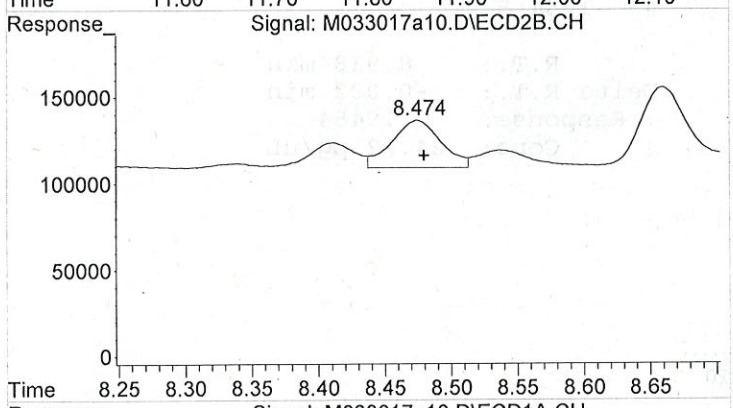
#2 1254-2

R.T.: 8.069 min
Delta R.T.: -0.001 min
Response: 41091
Conc: 24.04 pg/uL



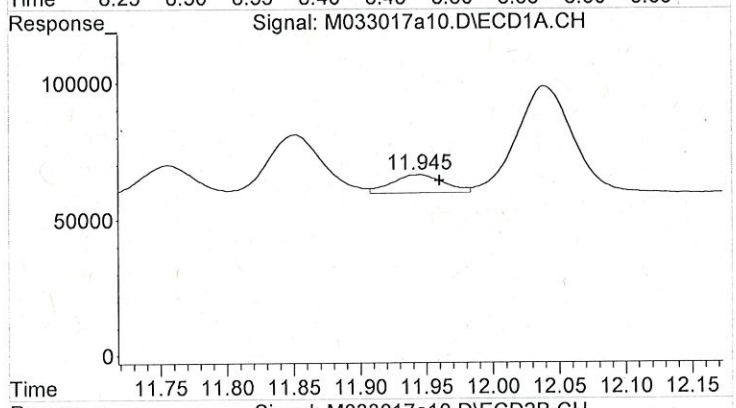
#3 1254-3

R.T.: 11.852 min
Delta R.T.: -0.008 min
Response: 21475
Conc: 24.22 pg/uL



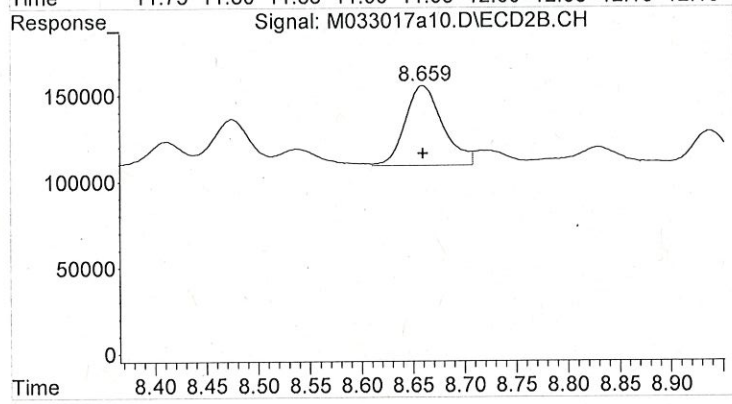
#3 1254-3

R.T.: 8.475 min
Delta R.T.: -0.005 min
Response: 27514
Conc: 24.45 pg/uL



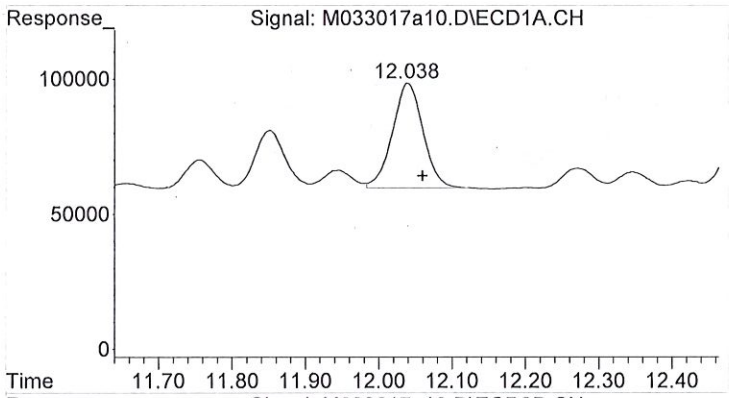
#4 1254-4

R.T.: 11.946 min
Delta R.T.: -0.014 min
Response: 6631
Conc: 24.07 pg/uL



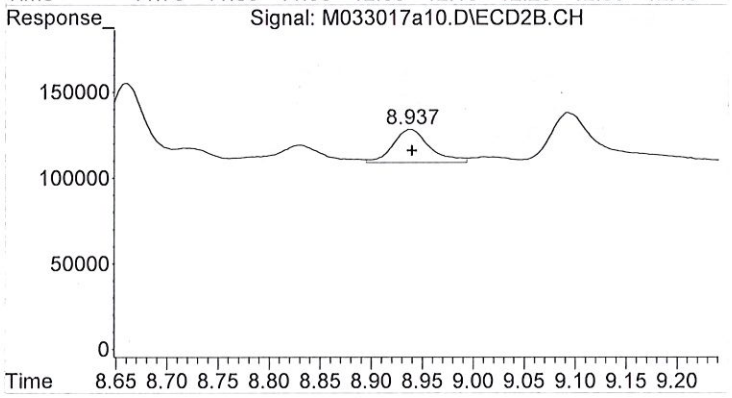
#4 1254-4

R.T.: 8.660 min
Delta R.T.: 0.000 min
Response: 46268
Conc: 24.12 pg/uL



#5 1254-5

R.T.: 12.038 min
Delta R.T.: -0.022 min
Response: 38761
Conc: 24.03 pg/uL



#5 1254-5

R.T.: 8.938 min
Delta R.T.: -0.002 min
Response: 19454
Conc: 24.32 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 15:04 pm
Operator : DWOOD
Sample : 87PCB083016B
Misc : PCB 1254 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:30:27 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1254 -1	11.340	7.689	66023	68720	53.652	51.664
2) L1 1254-2	11.766	8.071	19931	86959	52.401	52.453
3) L1 1254-3	11.861	8.478	40440	58536	51.932	51.103
4) L1 1254-4	11.954	8.663	13159	105786	52.459	52.518
5) L1 1254-5	12.051	8.943	73938	39863	52.836	51.324
Sum 1254 -1			213491	359863	263.280	259.062
Average 1254 -1					52.656	51.812

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 15:04 pm
Operator : DWOOD
Sample : 87PCB083016B
Misc : PCB 1254 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:22:19 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Mar 29 12:04:39 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
System Monitoring Compounds							
1) S2 tmx (1)	0.000	0.000	0	0	N.D.	N.D.	
7) S2 dcb	18.050	0.000	1746	0	89.304	N.D.	#
Target Compounds							
2) L1 1254 -1	11.340	7.689	66023	68720	50.456	35.783	#
3) L1 1254-2	11.766	8.071	19931	86959	17.828	102.614	#
4) L1 1254-3	11.861	8.478	40440	58536	58.412	42.862	#
5) L1 1254-4	11.954	8.663	13159	105786	16.190	70.104	#
6) L1 1254-5	12.051	8.943	73938	39863	253.805	23.968	#
Sum 1254 -1			213491	359863	396.691	275.331	
Average 1254 -1					79.338	55.066	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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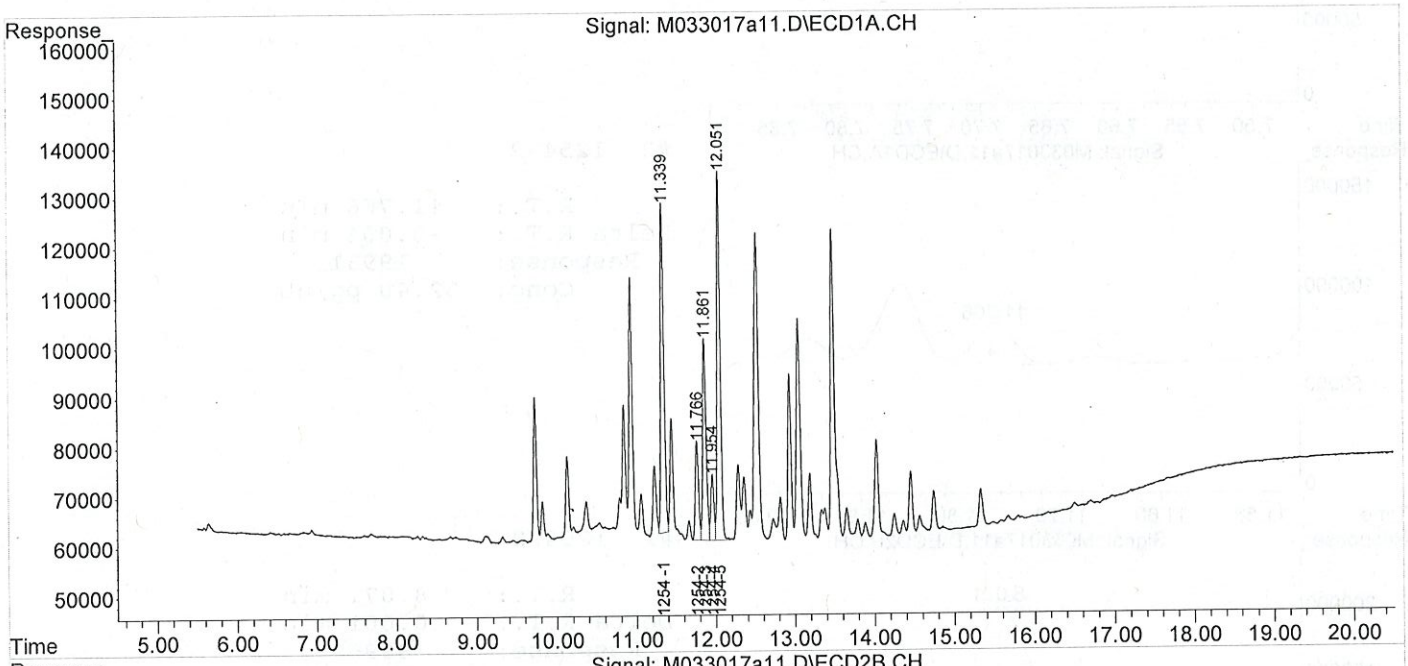
3/31/17

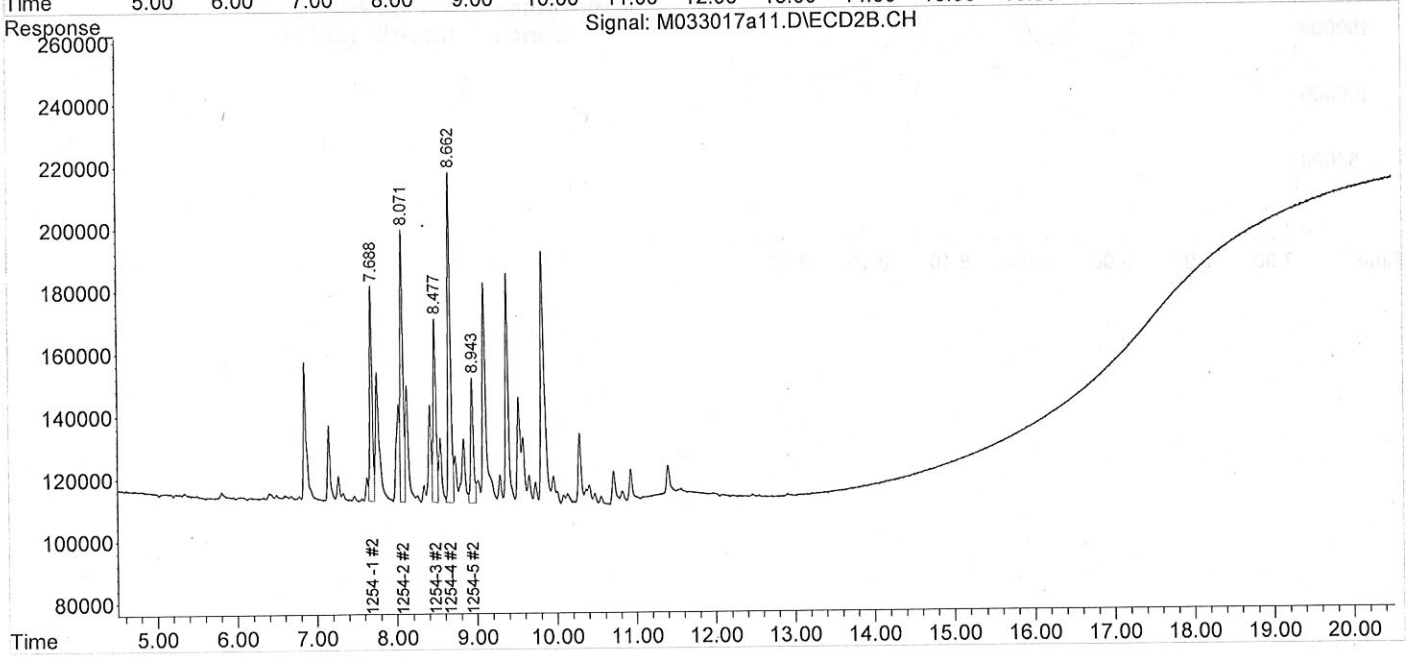
Quantitation Report (QT Reviewed)

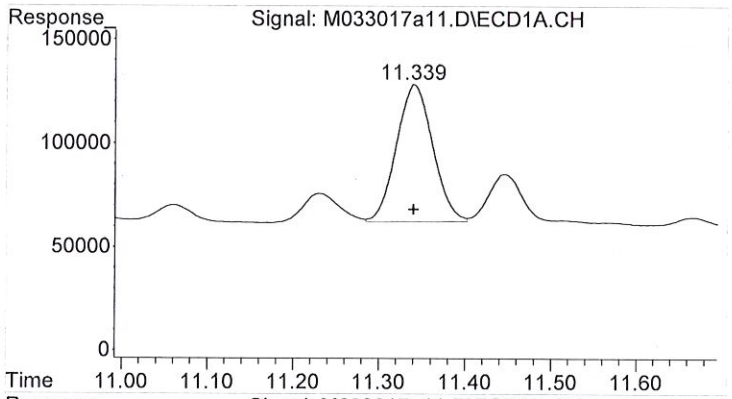
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 15:04 pm
Operator : DWOOD
Sample : 87PCB083016B
Misc : PCB 1254 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:30:27 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

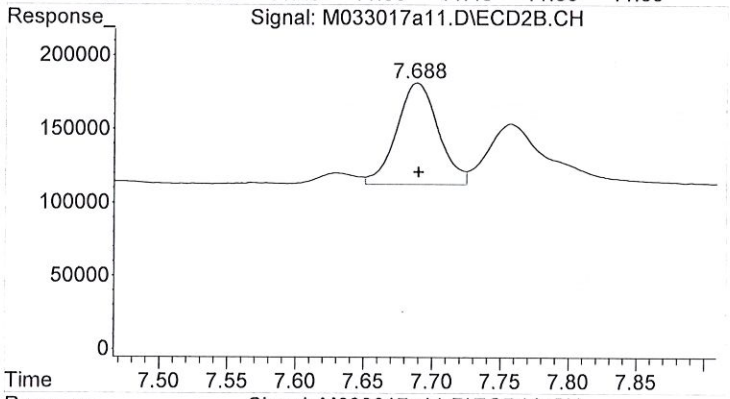






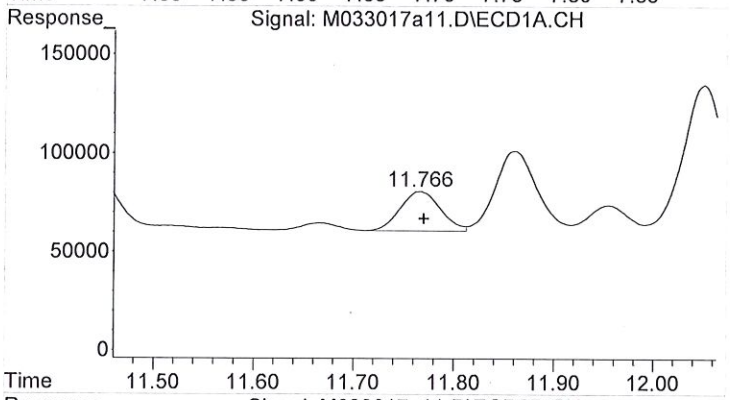
#1 1254 -1

R.T.: 11.340 min
Delta R.T.: 0.000 min
Response: 66023
Conc: 53.65 pg/uL



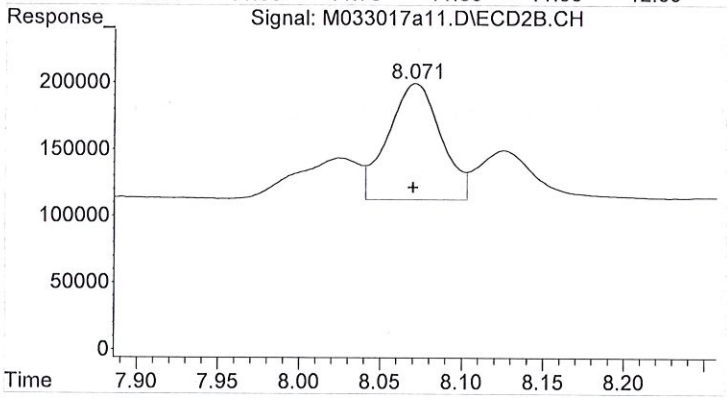
#1 1254 -1

R.T.: 7.689 min
Delta R.T.: -0.001 min
Response: 68720
Conc: 51.66 pg/uL



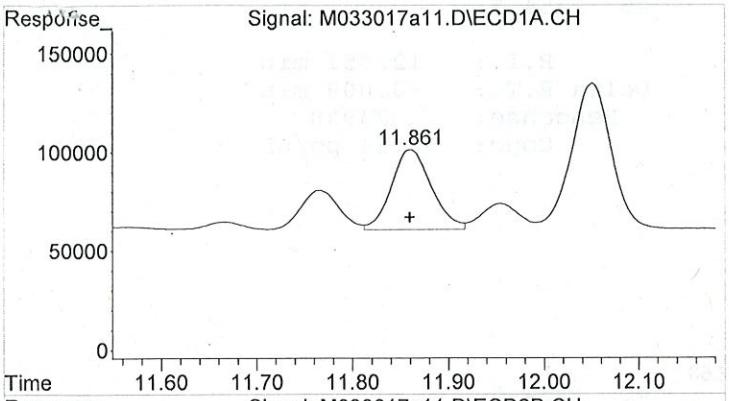
#2 1254-2

R.T.: 11.766 min
Delta R.T.: -0.004 min
Response: 19931
Conc: 52.40 pg/uL



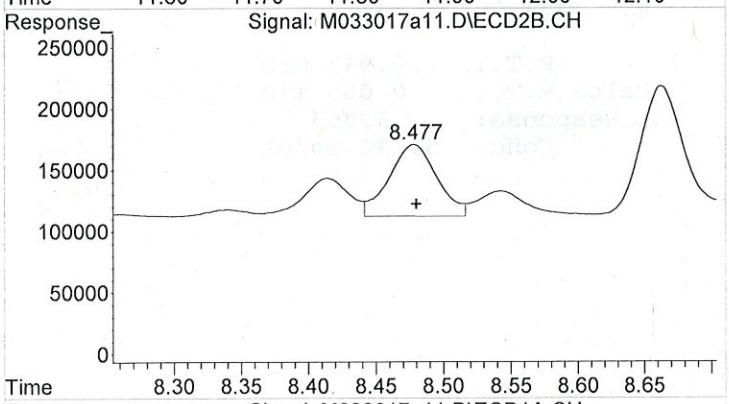
#2 1254-2

R.T.: 8.071 min
Delta R.T.: 0.001 min
Response: 86959
Conc: 52.45 pg/uL



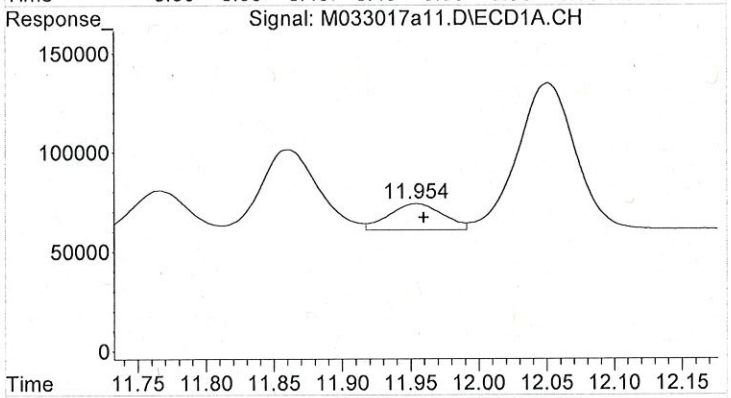
#3 1254-3

R.T.: 11.861 min
Delta R.T.: 0.000 min
Response: 40440
Conc: 51.93 pg/uL



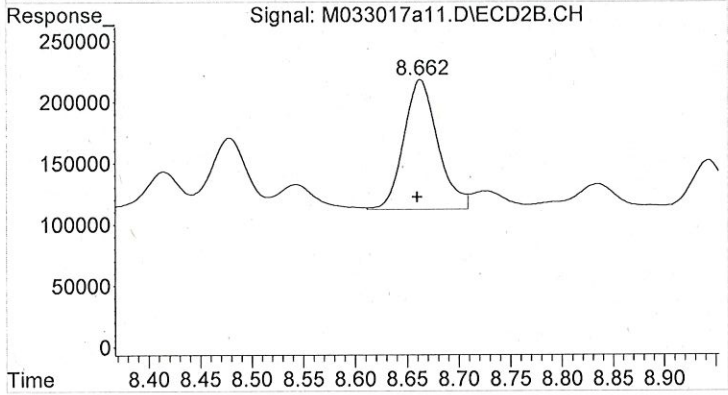
#3 1254-3

R.T.: 8.478 min
Delta R.T.: -0.002 min
Response: 58536
Conc: 51.10 pg/uL



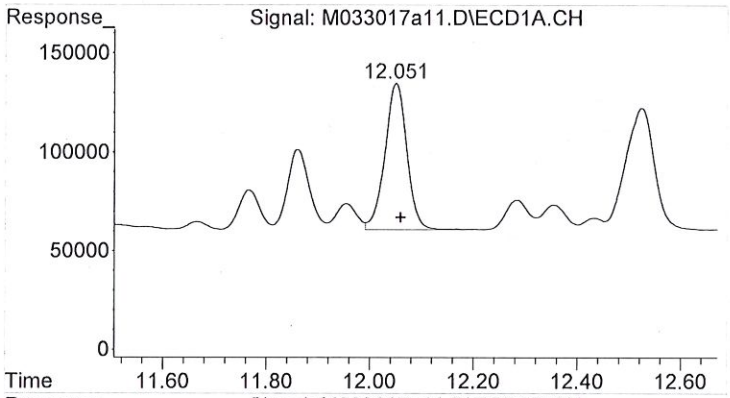
#4 1254-4

R.T.: 11.954 min
Delta R.T.: -0.006 min
Response: 13159
Conc: 52.46 pg/uL



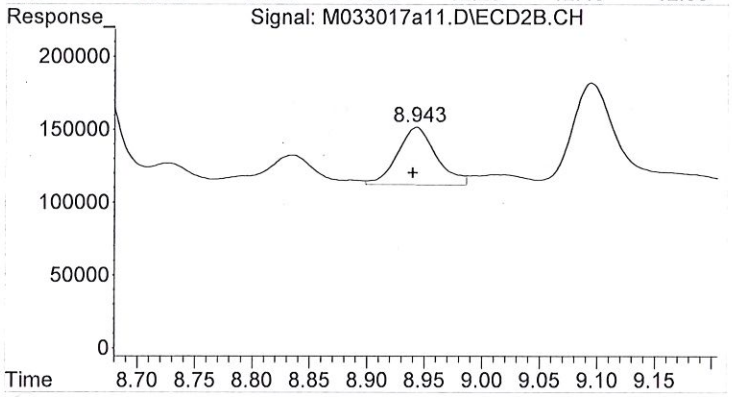
#4 1254-4

R.T.: 8.663 min
Delta R.T.: 0.003 min
Response: 105786
Conc: 52.52 pg/uL



#5 1254-5

R.T.: 12.051 min
Delta R.T.: -0.009 min
Response: 73938
Conc: 52.84 pg/uL



#5 1254-5

R.T.: 8.943 min
Delta R.T.: 0.003 min
Response: 39863
Conc: 51.32 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 15:28 pm
Operator : DWOOD
Sample : 87PCB083016C
Misc : PCB 1254 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 11 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:30:33 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1254 -1	11.330	7.687	121815	135303	106.391	104.240
2) L1 1254-2	11.757	8.068	38026	174647	107.282	106.769
3) L1 1254-3	11.853	8.474	77625	122244	106.268	105.830
4) L1 1254-4	11.946	8.660	25465	215058	105.975	104.652
5) L1 1254-5	12.042	8.939	137889	81580	105.212	106.520
Sum 1254 -1			400819	728831	531.127	528.011
Average 1254 -1					106.225	105.602

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ww
3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 15:28 pm
Operator : DWOOD
Sample : 87PCB083016C
Misc : PCB 1254 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 11 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:22:28 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Mar 29 12:04:39 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	0.000	0	0	N.D.	N.D.
7) S2 dcb	0.000	13.848	0	1335	N.D.	NoCal
Target Compounds						
2) L1 1254 -1	11.330	7.687	121815	135303	93.092	70.454
3) L1 1254-2	11.757	8.068	38026	174647	34.015	206.089 #
4) L1 1254-3	11.853	8.474	77625	122244	112.122	89.511
5) L1 1254-4	11.946	8.660	25465	215058	31.330	142.518 #
6) L1 1254-5	12.042	8.939	137889	81580	473.325	49.051 #
Sum 1254 -1			400819	728831	743.884	557.622
Average 1254 -1					148.777	111.524

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

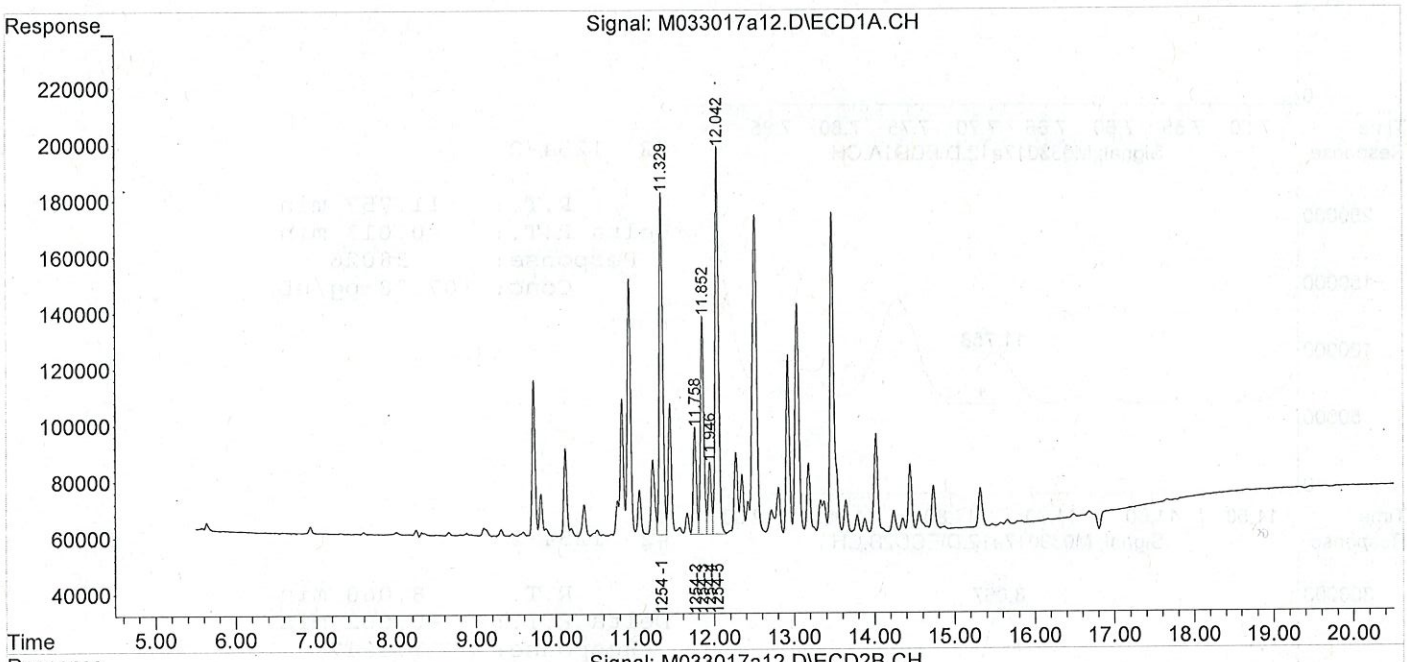
lw
3/31/17

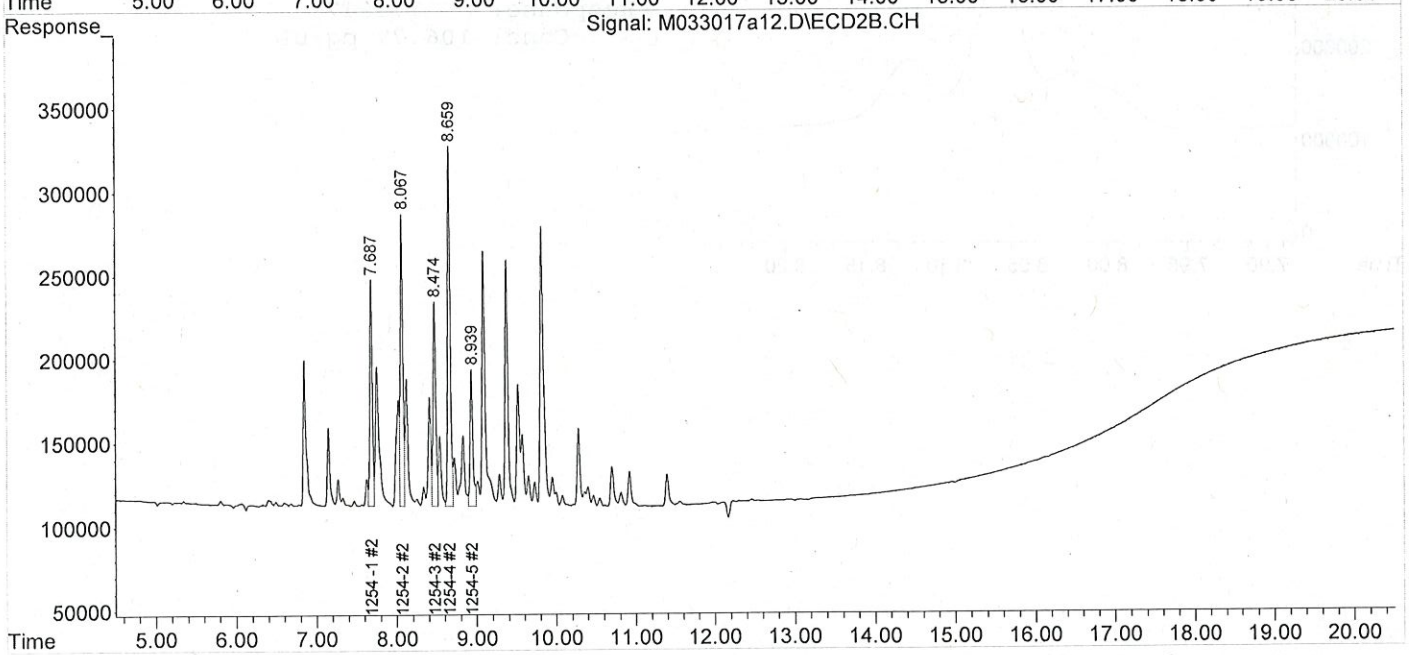
Quantitation Report (QT Reviewed)

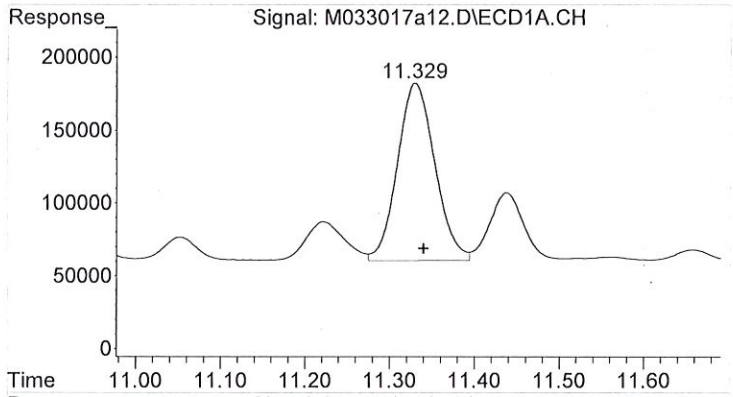
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 15:28 pm
Operator : DWOOD
Sample : 87PCB083016C
Misc : PCB 1254 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 11 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:30:33 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

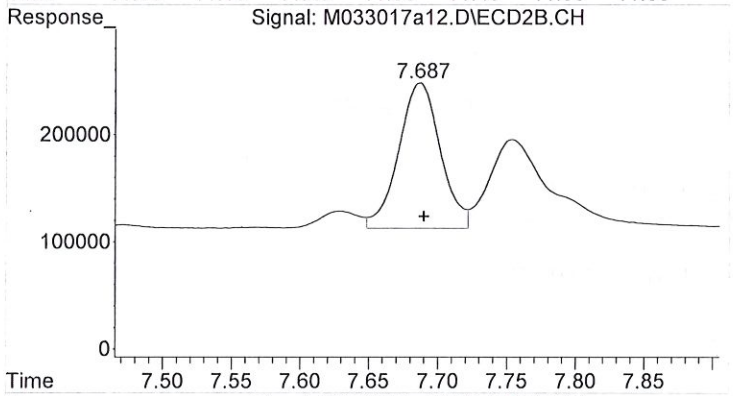






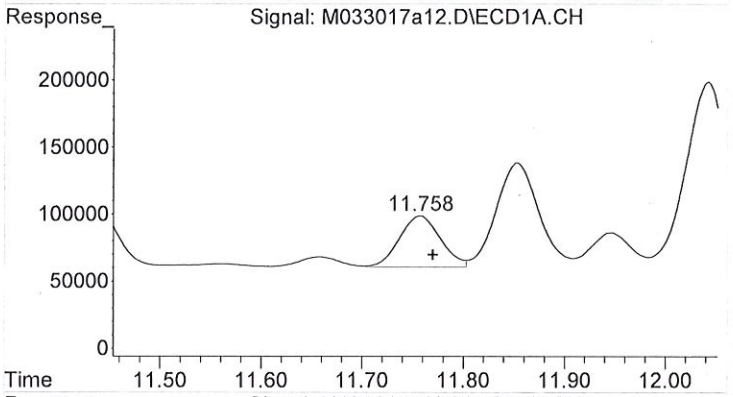
#1 1254 -1

R.T.: 11.330 min
Delta R.T.: -0.010 min
Response: 121815
Conc: 106.39 pg/uL



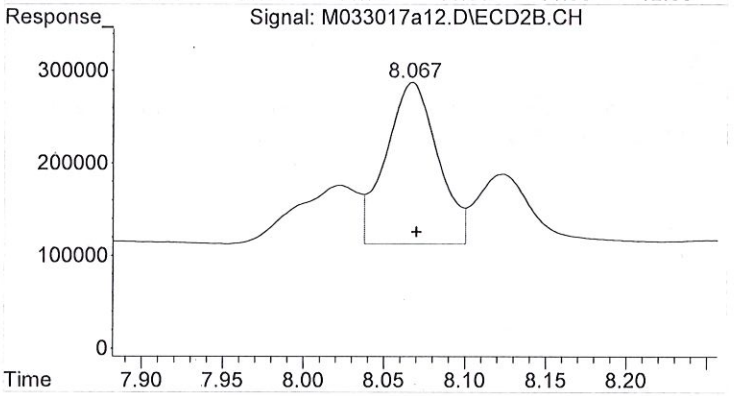
#1 1254 -1

R.T.: 7.687 min
Delta R.T.: -0.003 min
Response: 135303
Conc: 104.24 pg/uL



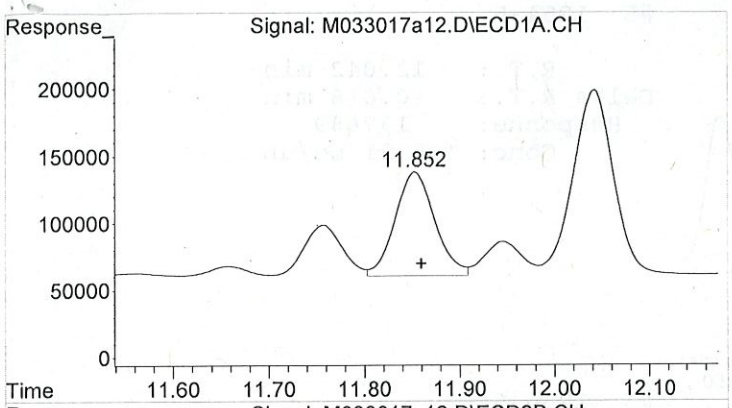
#2 1254-2

R.T.: 11.757 min
Delta R.T.: -0.013 min
Response: 38026
Conc: 107.28 pg/uL



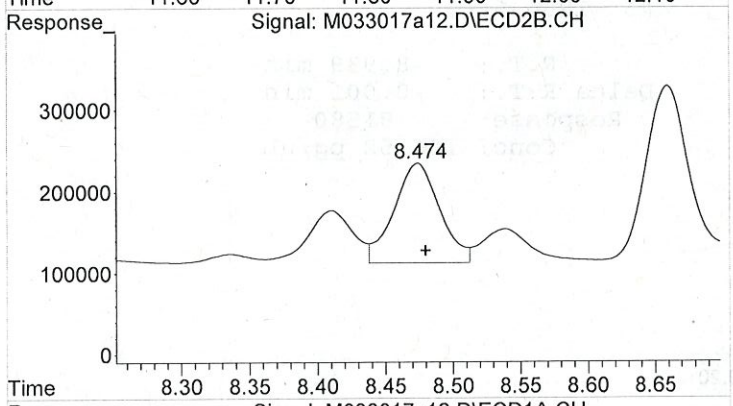
#2 1254-2

R.T.: 8.068 min
Delta R.T.: -0.002 min
Response: 174647
Conc: 106.77 pg/uL



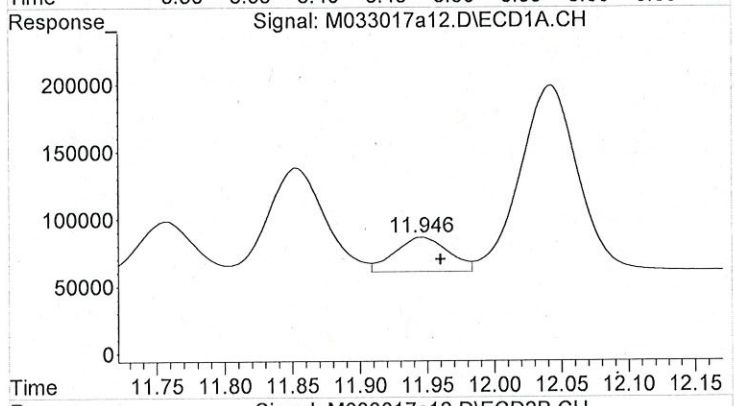
#3 1254-3

R.T.: 11.853 min
Delta R.T.: -0.007 min
Response: 77625
Conc: 106.27 pg/uL



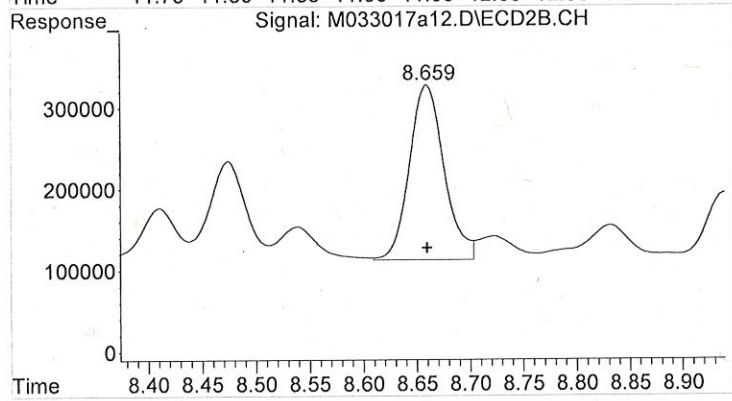
#3 1254-3

R.T.: 8.474 min
Delta R.T.: -0.006 min
Response: 122244
Conc: 105.83 pg/uL



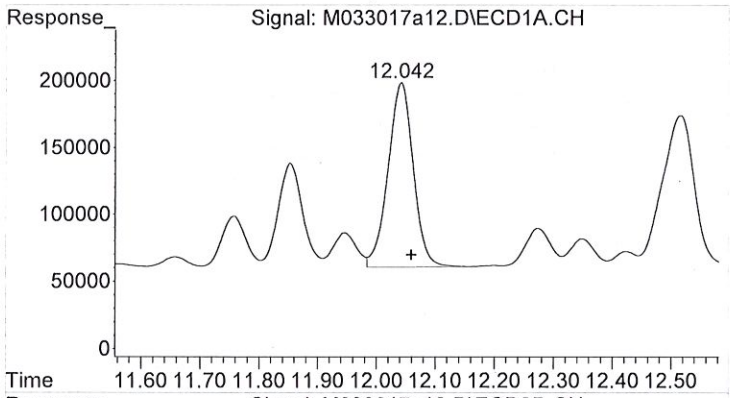
#4 1254-4

R.T.: 11.946 min
Delta R.T.: -0.014 min
Response: 25465
Conc: 105.97 pg/uL



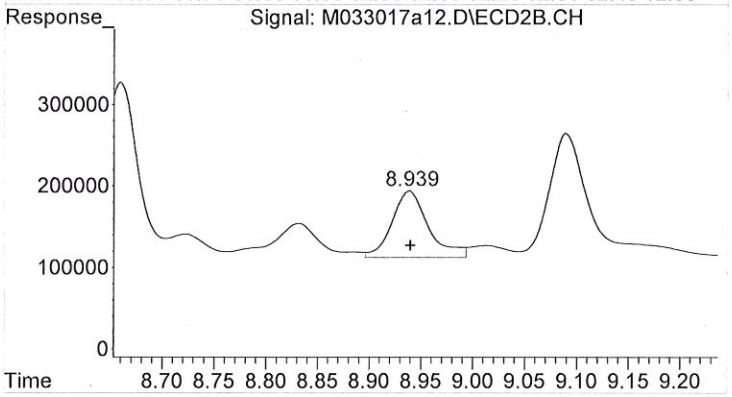
#4 1254-4

R.T.: 8.660 min
Delta R.T.: 0.000 min
Response: 215058
Conc: 104.65 pg/uL



#5 1254-5

R.T.: 12.042 min
Delta R.T.: -0.018 min
Response: 137889
Conc: 105.21 pg/uL



#5 1254-5

R.T.: 8.939 min
Delta R.T.: -0.001 min
Response: 81580
Conc: 106.52 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 15:53 pm
Operator : DWOOD
Sample : 87PCB083016D
Misc : PCB 1254 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 12 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:30:39 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1254 -1	11.329	7.685	273299	325422	249.587	254.365
2) L1 1254-2	11.754	8.065	85409	404073	250.984	248.882
3) L1 1254-3	11.851	8.472	172324	280861	244.648	242.088
4) L1 1254-4	11.944	8.655	58217	520649	248.409	250.451
5) L1 1254-5	12.039	8.935	313995	189547	249.444	249.368
Sum 1254 -1			903244	1720553	1243.072	1245.155
Average 1254 -1					248.614	249.031

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 15:53 pm
Operator : DWOOD
Sample : 87PCB083016D
Misc : PCB 1254 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 12 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:22:38 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Mar 29 12:04:39 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
System Monitoring Compounds							
1) S2 tmx (1)	0.000	0.000	0	0	N.D.	N.D.	
7) S2 dcb	18.108	0.000	4119	0	210.716	N.D.	#
Target Compounds							
2) L1 1254 -1	11.329	7.685	273299	325422	208.858	169.451	
3) L1 1254-2	11.754	8.065	85409	404073	76.400	476.820	#
4) L1 1254-3	11.851	8.472	172324	280861	248.907	205.656	
5) L1 1254-4	11.944	8.655	58217	520649	71.627	345.031	#
6) L1 1254-5	12.039	8.935	313995	189547	1077.839	113.967	#
Sum 1254 -1			903244	1720553	1683.631	1310.926	
Average 1254 -1					336.726	262.185	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

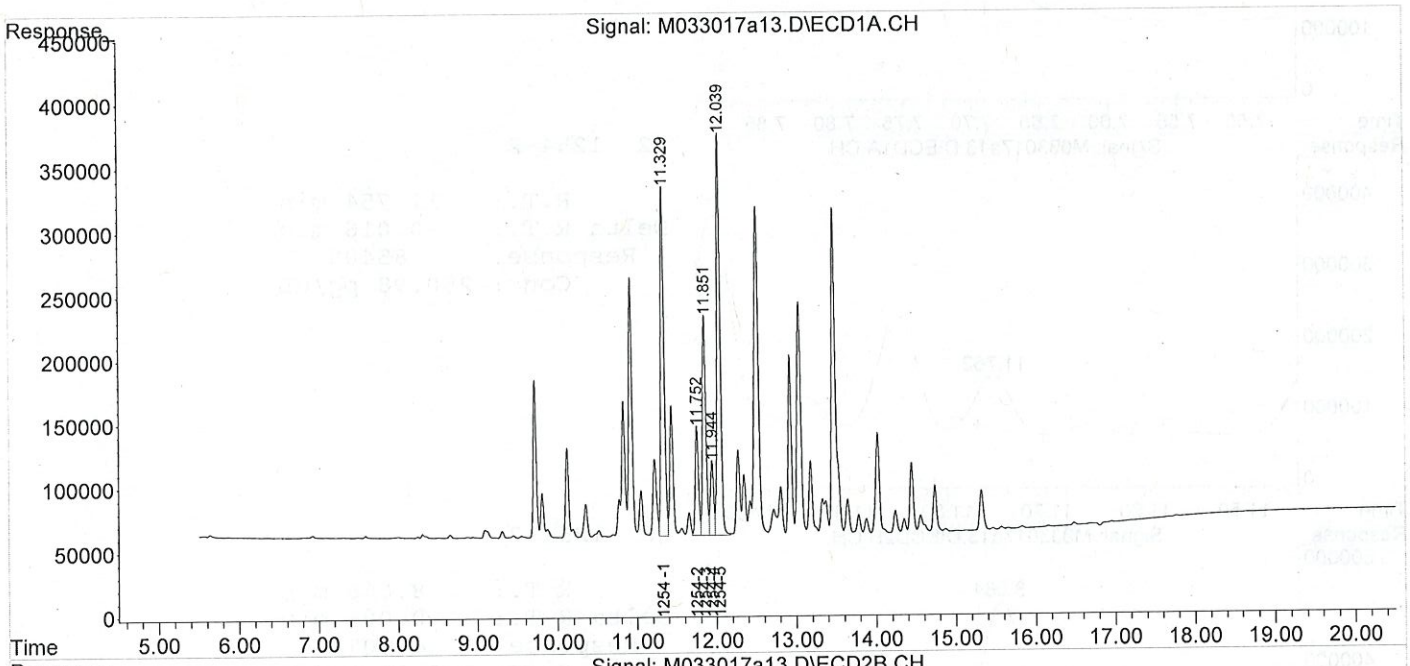
MW
3/31/17

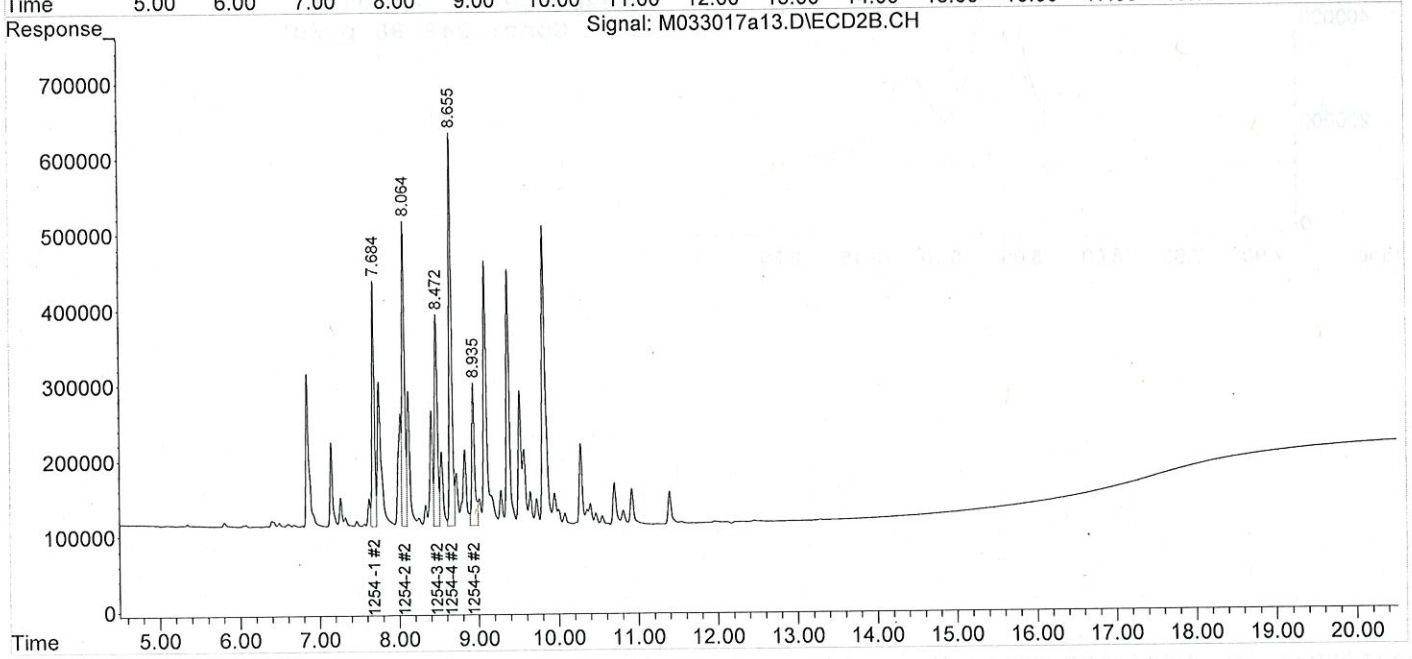
Quantitation Report (QT Reviewed)

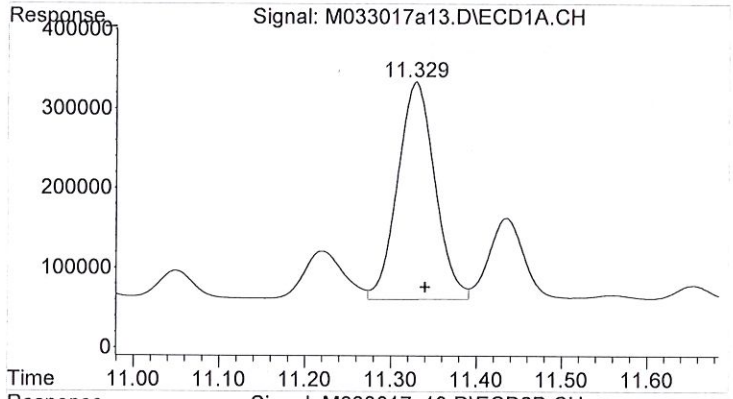
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 15:53 pm
Operator : DWOOD
Sample : 87PCB083016D
Misc : PCB 1254 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 12 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:30:39 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

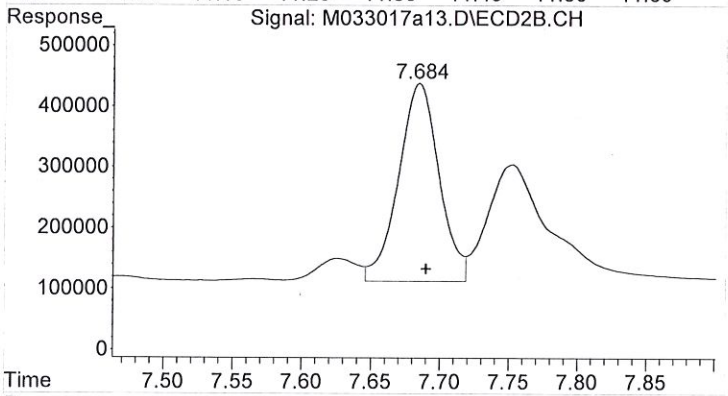






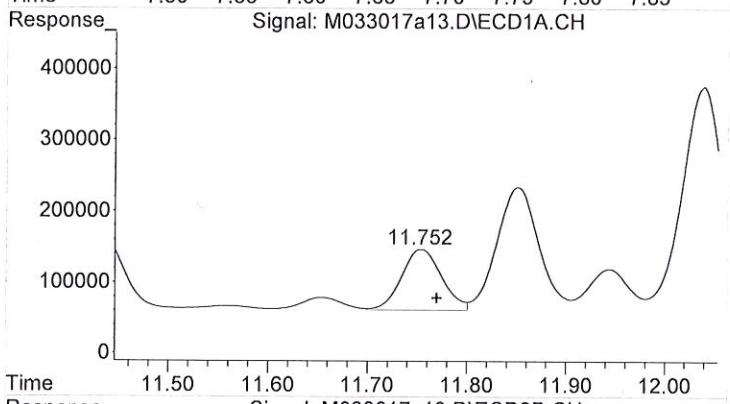
#1 1254 -1

R.T.: 11.329 min
Delta R.T.: -0.011 min
Response: 273299
Conc: 249.59 pg/uL



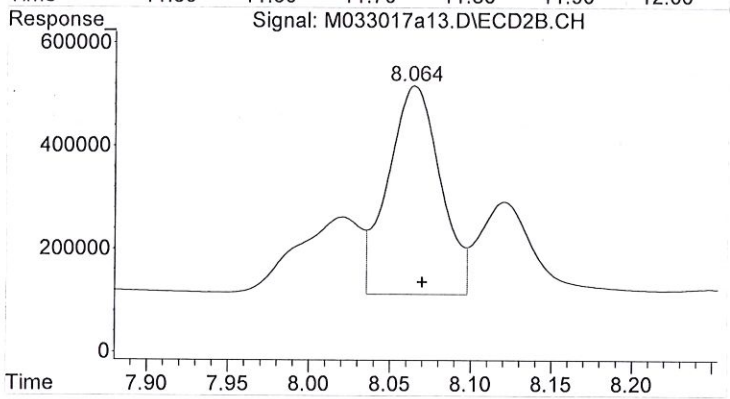
#1 1254 -1

R.T.: 7.685 min
Delta R.T.: -0.005 min
Response: 325422
Conc: 254.36 pg/uL



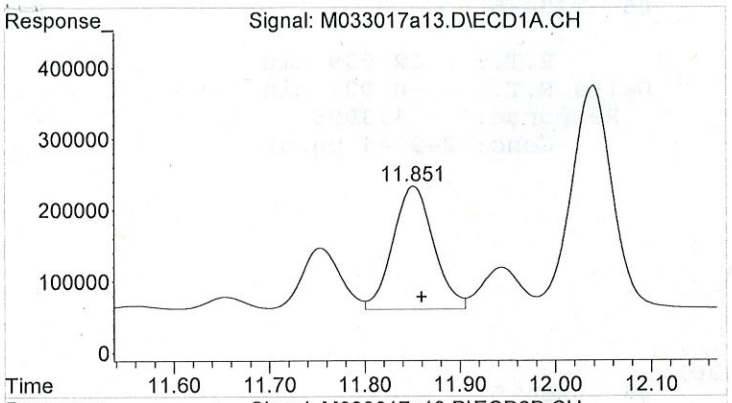
#2 1254-2

R.T.: 11.754 min
Delta R.T.: -0.016 min
Response: 85409
Conc: 250.98 pg/uL



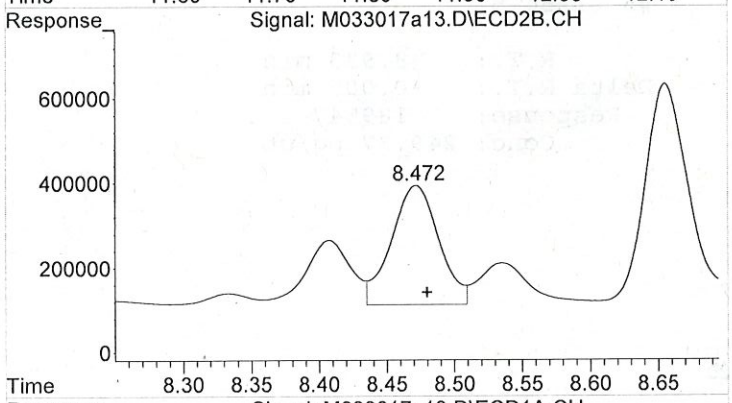
#2 1254-2

R.T.: 8.065 min
Delta R.T.: -0.005 min
Response: 404073
Conc: 248.88 pg/uL



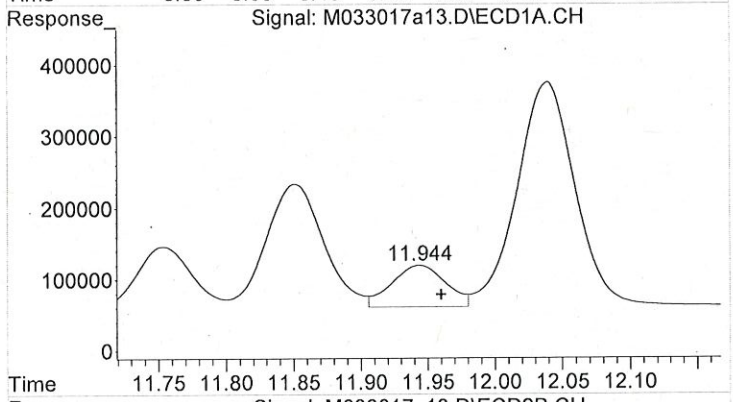
#3 1254-3

R.T.: 11.851 min
Delta R.T.: -0.009 min
Response: 172324
Conc: 244.65 pg/uL



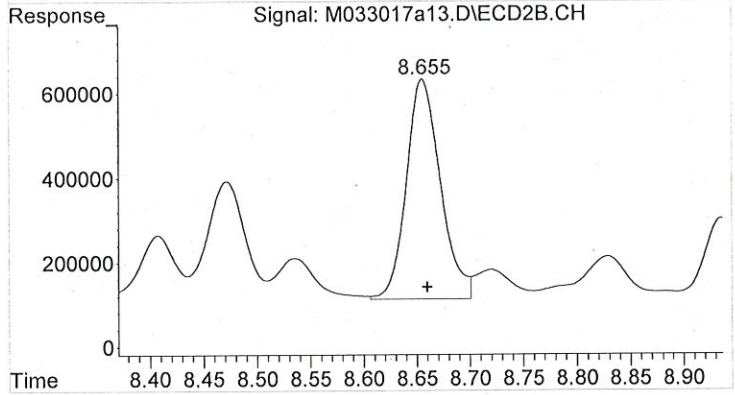
#3 1254-3

R.T.: 8.472 min
Delta R.T.: -0.008 min
Response: 280861
Conc: 242.09 pg/uL



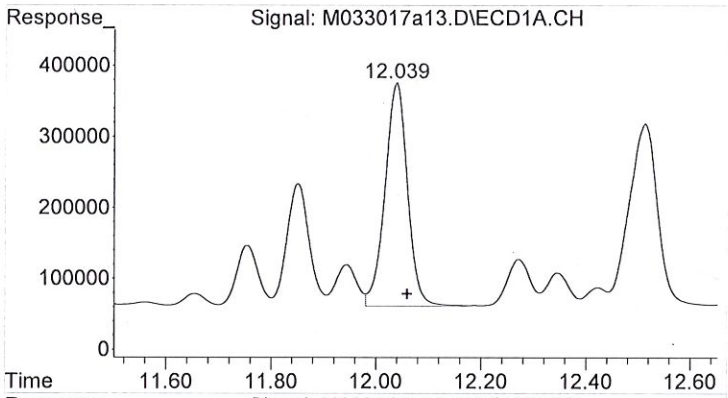
#4 1254-4

R.T.: 11.944 min
Delta R.T.: -0.016 min
Response: 58217
Conc: 248.41 pg/uL



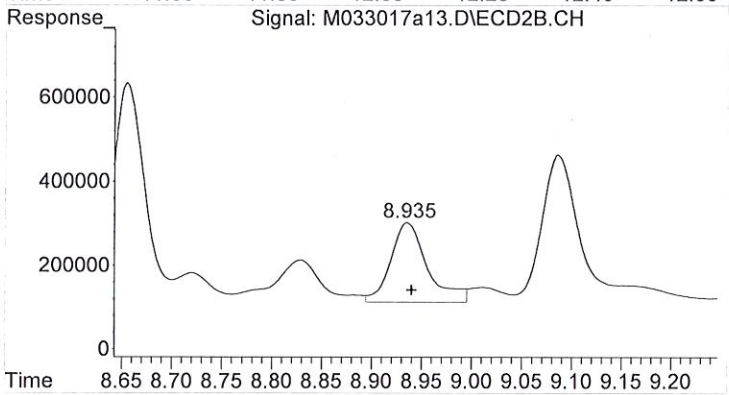
#4 1254-4

R.T.: 8.655 min
Delta R.T.: -0.005 min
Response: 520649
Conc: 250.45 pg/uL



#5 1254-5

R.T.: 12.039 min
Delta R.T.: -0.021 min
Response: 313995
Conc: 249.44 pg/uL



#5 1254-5

R.T.: 8.935 min
Delta R.T.: -0.005 min
Response: 189547
Conc: 249.37 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 16:18 pm
Operator : DWOOD
Sample : 87PCB083016E
Misc : PCB 1254 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 13 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:30:46 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1254 -1	11.329	7.685	525424	618959	487.918	486.151
2) L1 1254-2	11.755	8.065	169135	783396	504.908	483.845
3) L1 1254-3	11.851	8.472	341919	583059	492.468	501.687
4) L1 1254-4	11.944	8.657	115486	1032374	497.463	494.598
5) L1 1254-5	12.040	8.937	606806	369386	489.258	487.308
Sum 1254 -1			1758769	3387173	2472.015	2453.589
Average 1254 -1					494.403	490.718

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

WW
3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 16:18 pm
Operator : DWOOD
Sample : 87PCB083016E
Misc : PCB 1254 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 13 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:22:48 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Mar 29 12:04:39 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
System Monitoring Compounds							
1) S2 tmx (1)	0.000	0.000	0	0	N.D.	N.D.	
7) S2 dcb	0.000	13.799	0	351	N.D.	NoCal	
Target Compounds							
2) L1 1254 -1	11.329	7.685	525424	618959	401.535	322.299	
3) L1 1254-2	11.755	8.065	169135	783396	151.294	924.434	#
4) L1 1254-3	11.851	8.472	341919	583059	493.871	426.935	
5) L1 1254-4	11.944	8.657	115486	1032374	142.087	684.149	#
6) L1 1254-5	12.040	8.937	606806	369386	2082.959	222.097	#
Sum 1254 -1			1758769	3387173	3271.745	2579.914	
Average 1254 -1					654.349	515.983	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

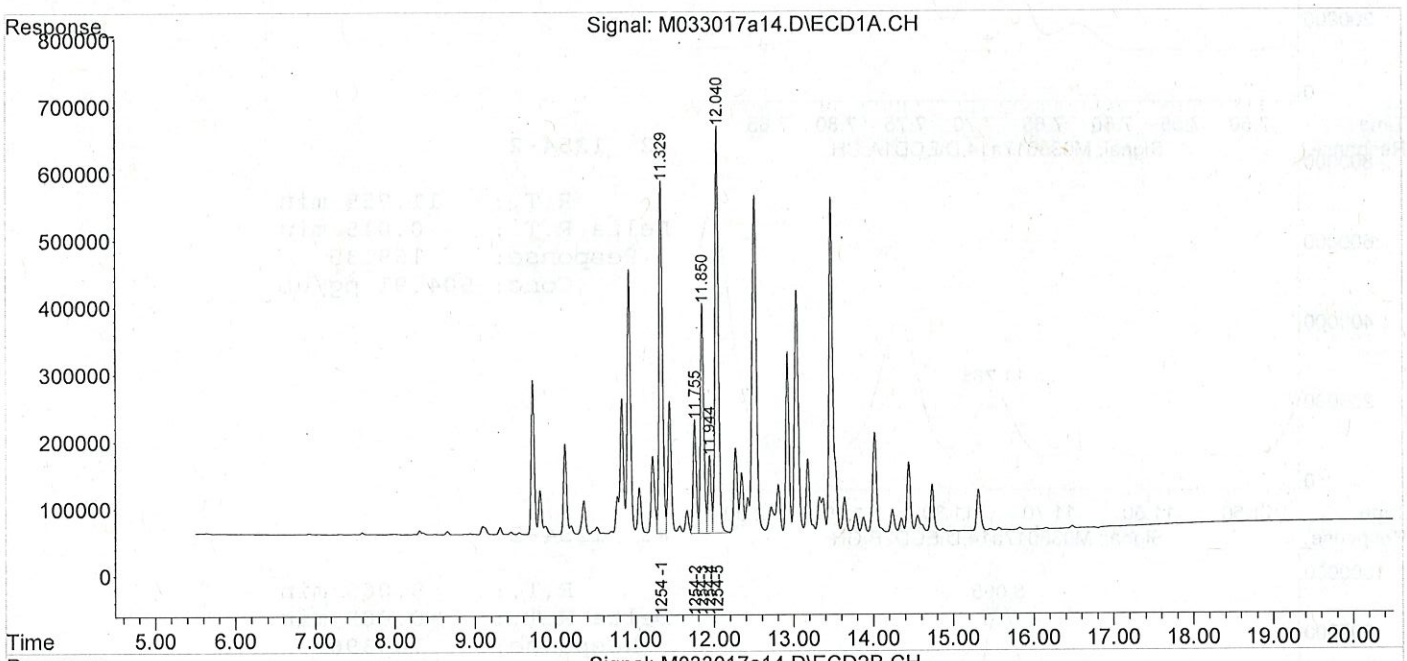
MW
3/31/17

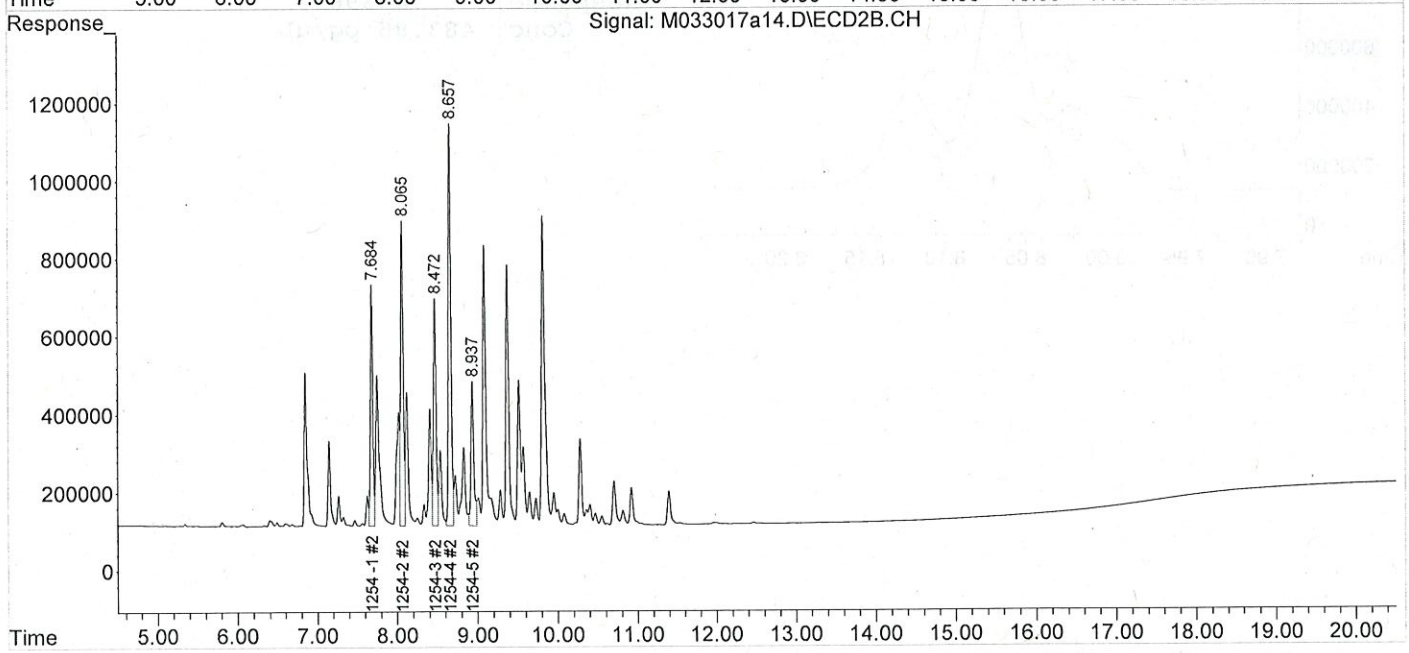
Quantitation Report (QT Reviewed)

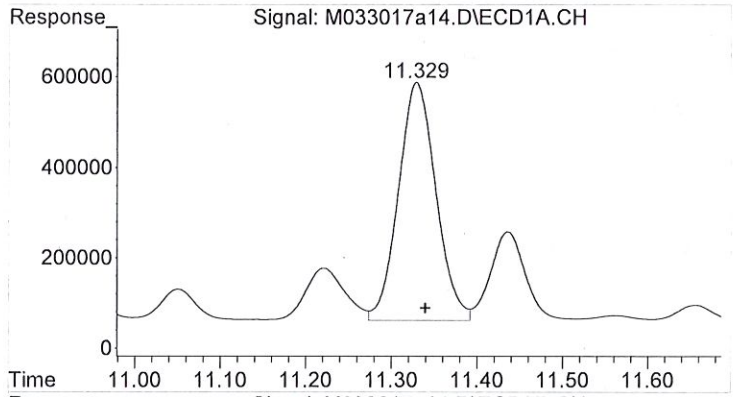
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 16:18 pm
Operator : DWOOD
Sample : 87PCB083016E
Misc : PCB 1254 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 13 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:30:46 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

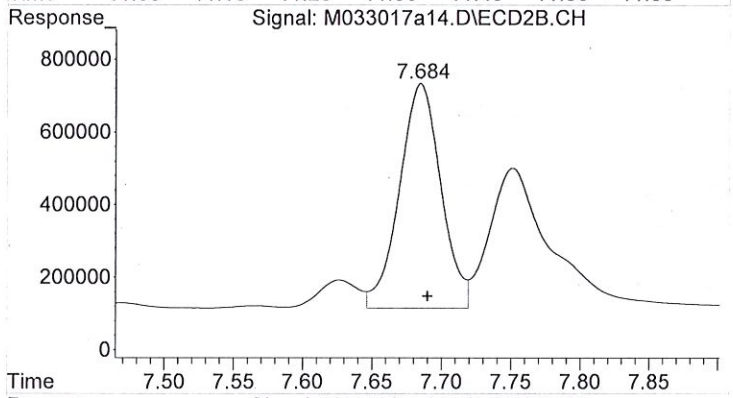






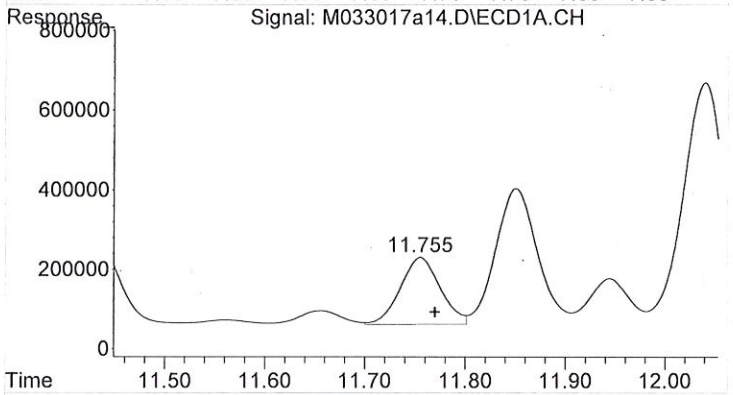
#1 1254 -1

R.T.: 11.329 min
Delta R.T.: -0.011 min
Response: 525424
Conc: 487.92 pg/uL



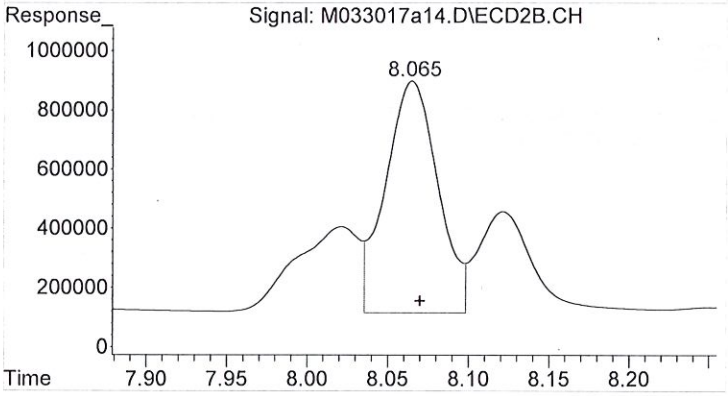
#1 1254 -1

R.T.: 7.685 min
Delta R.T.: -0.005 min
Response: 618959
Conc: 486.15 pg/uL



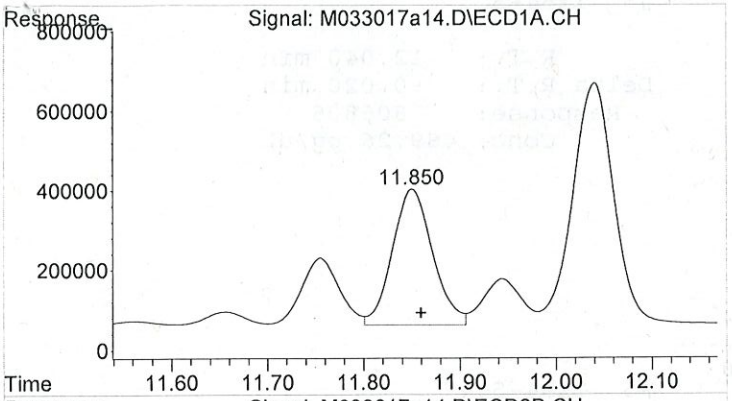
#2 1254-2

R.T.: 11.755 min
Delta R.T.: -0.015 min
Response: 169135
Conc: 504.91 pg/uL



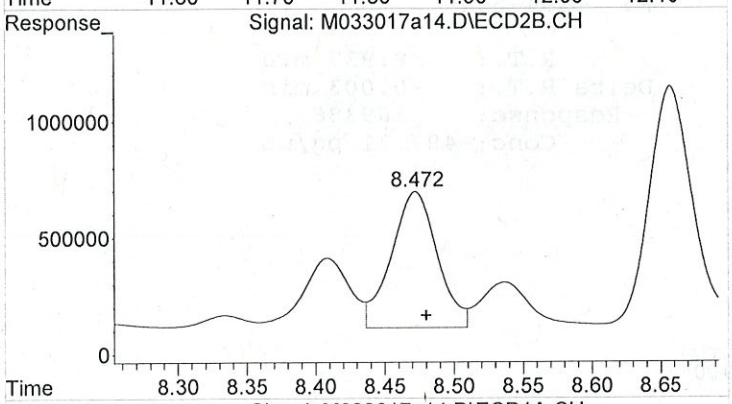
#2 1254-2

R.T.: 8.065 min
Delta R.T.: -0.005 min
Response: 783396
Conc: 483.85 pg/uL



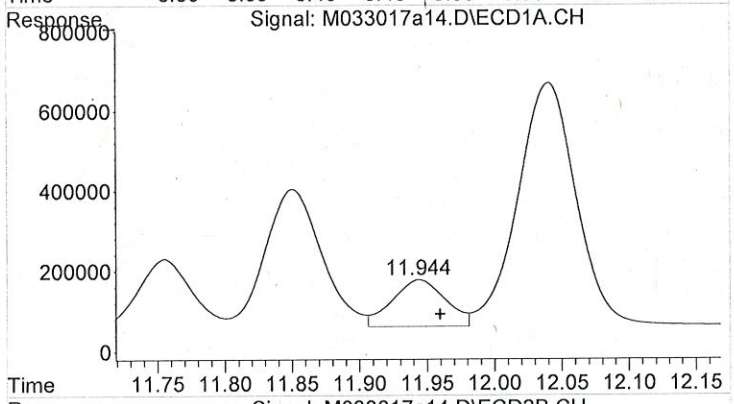
#3 1254-3

R.T.: 11.851 min
Delta R.T.: -0.009 min
Response: 341919
Conc: 492.47 pg/uL



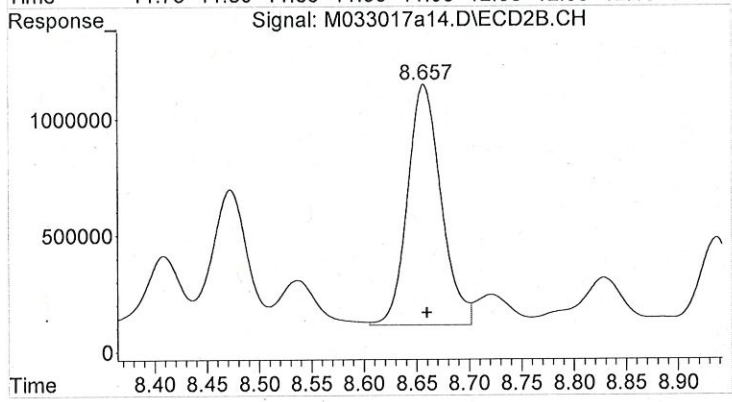
#3 1254-3

R.T.: 8.472 min
Delta R.T.: -0.008 min
Response: 583059
Conc: 501.69 pg/uL



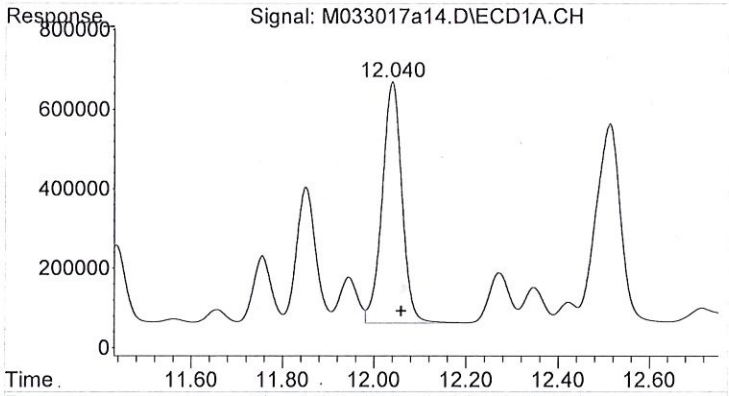
#4 1254-4

R.T.: 11.944 min
Delta R.T.: -0.016 min
Response: 115486
Conc: 497.46 pg/uL



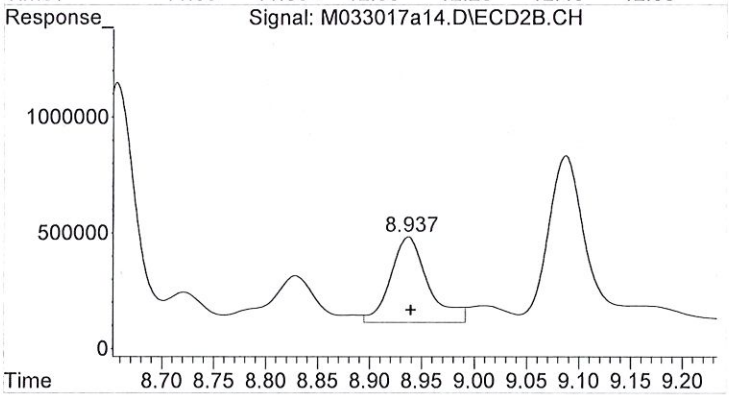
#4 1254-4

R.T.: 8.657 min
Delta R.T.: -0.003 min
Response: 1032374
Conc: 494.60 pg/uL



#5 1254-5

R.T.: 12.040 min
Delta R.T.: -0.020 min
Response: 606806
Conc: 489.26 pg/uL



#5 1254-5

R.T.: 8.937 min
Delta R.T.: -0.003 min
Response: 369386
Conc: 487.31 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 16:42 pm
Operator : DWOOD
Sample : 87PCB083016F
Misc : PCB 1254 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 14 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:30:57 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1254 -1	11.327	7.684	1002043	1220558	938.460	961.194
2) L1 1254-2	11.752	8.065	301440	1549477	906.166	958.378
3) L1 1254-3	11.849	8.471	666260	1127945	966.413	969.764
4) L1 1254-4	11.943	8.655	217161	1981113	939.634	947.246
5) L1 1254-5	12.037	8.935	1174009	729174	953.800	963.333
Sum 1254 -1			3360913	6608266	4704.473	4799.915
Average 1254 -1					940.895	959.983

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 16:42 pm
Operator : DWOOD
Sample : 87PCB083016F
Misc : PCB 1254 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 14 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:22:57 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Mar 29 12:04:39 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	5.082	0	2234	N.D.	132.509 #
7) S2 dcb	0.000	13.797	0	373	N.D.	NoCal
Target Compounds						
2) L1 1254 -1	11.327	7.684	1002043	1220558	765.772	635.560
3) L1 1254-2	11.752	8.065	301440	1549477	269.644	1828.437 #
4) L1 1254-3	11.849	8.471	666260	1127945	962.352	825.918
5) L1 1254-4	11.943	8.655	217161	1981113	267.183	1312.873 #
6) L1 1254-5	12.037	8.935	1174009	729174	4029.972	438.423 #
Sum 1254 -1			3360913	6608266	6294.924	5041.210
Average 1254 -1					1258.985	1008.242

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

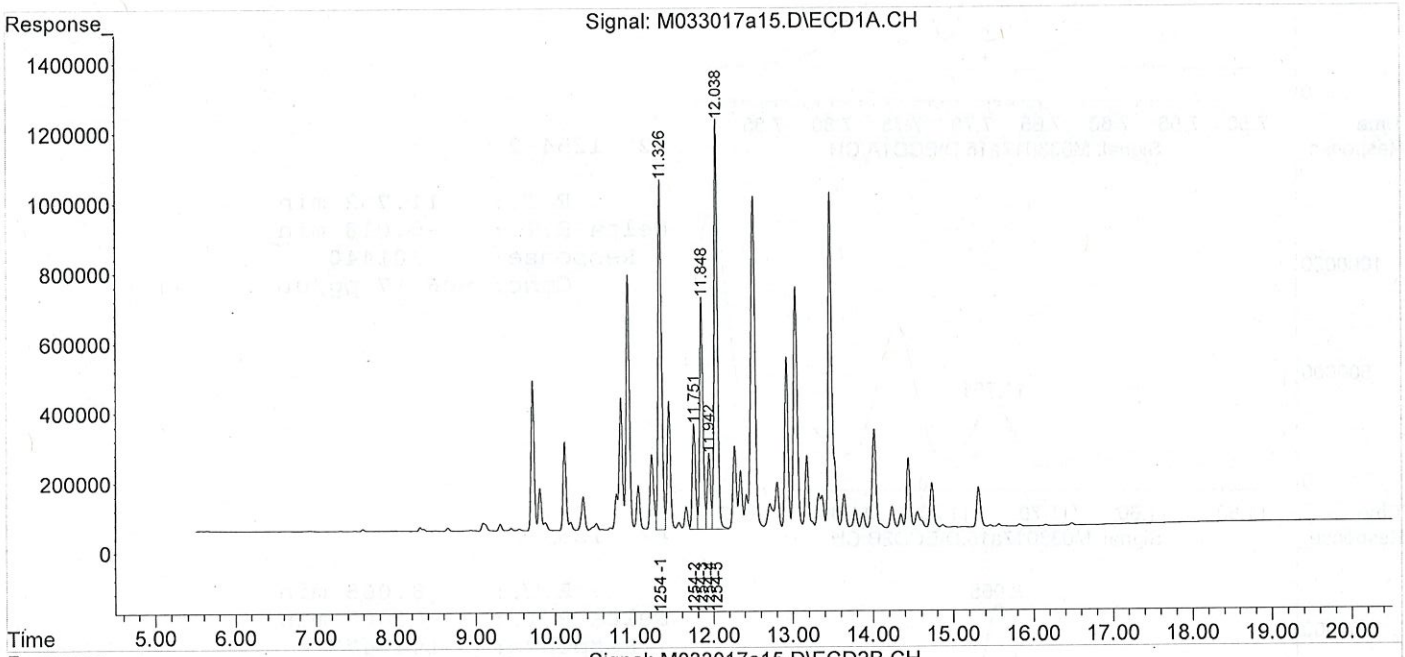
MW
3/31/17

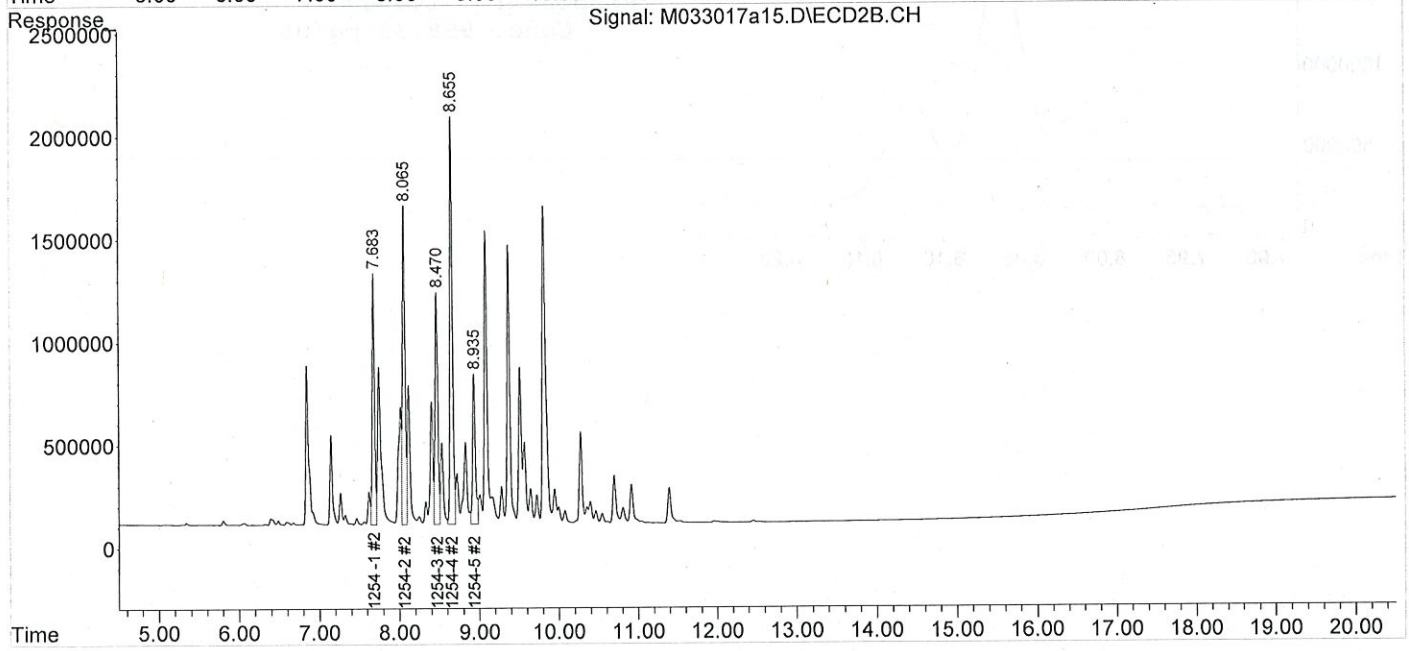
Quantitation Report (QT Reviewed)

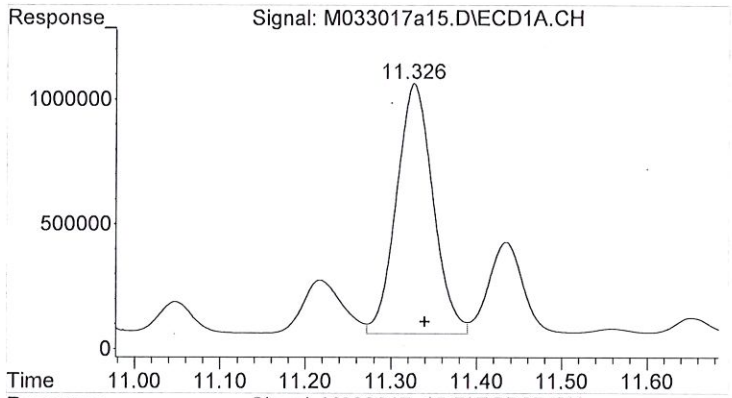
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 16:42 pm
Operator : DWOOD
Sample : 87PCB083016F
Misc : PCB 1254 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 14 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:30:57 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

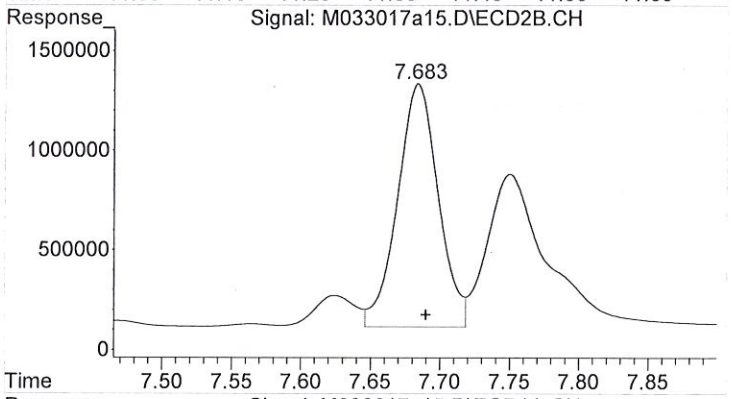






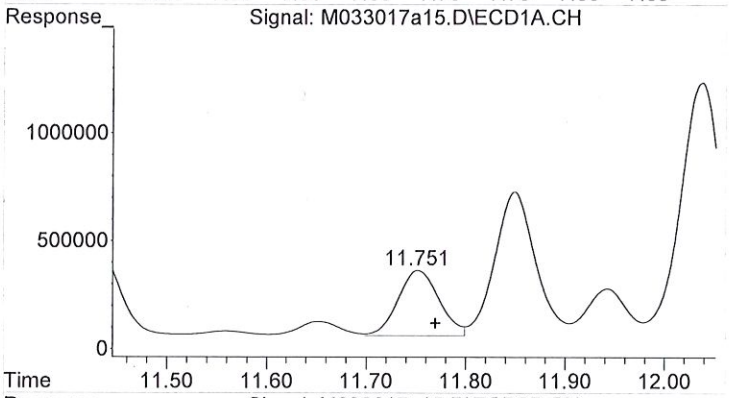
#1 1254 -1

R.T.: 11.327 min
Delta R.T.: -0.013 min
Response: 1002043
Conc: 938.46 pg/uL



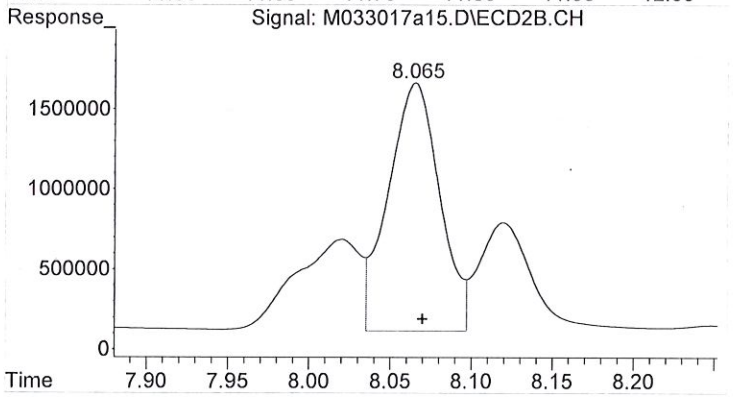
#1 1254 -1

R.T.: 7.684 min
Delta R.T.: -0.006 min
Response: 1220558
Conc: 961.19 pg/uL



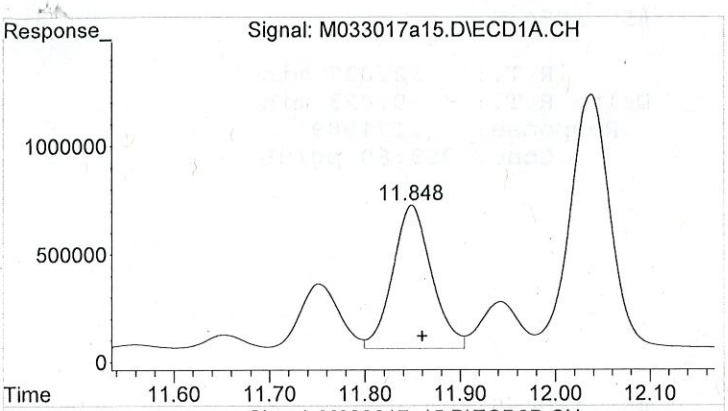
#2 1254-2

R.T.: 11.752 min
Delta R.T.: -0.018 min
Response: 301440
Conc: 906.17 pg/uL



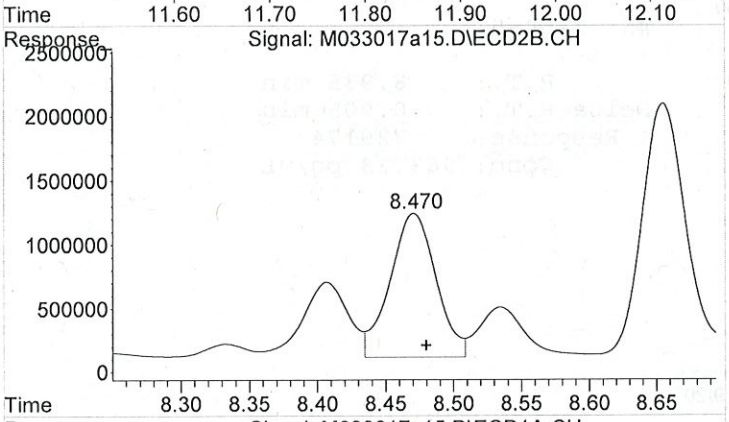
#2 1254-2

R.T.: 8.065 min
Delta R.T.: -0.005 min
Response: 1549477
Conc: 958.38 pg/uL



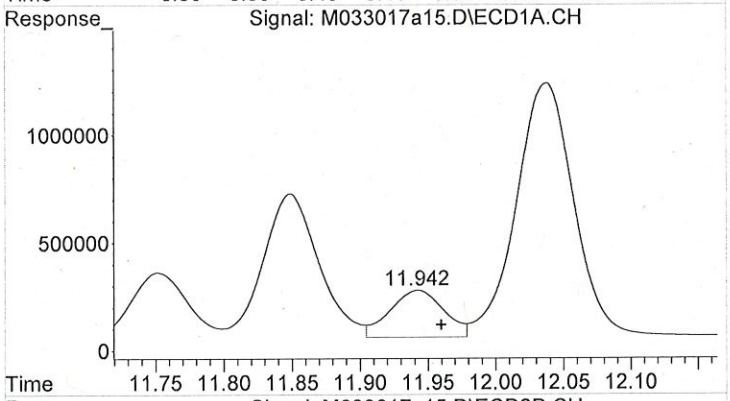
#3 1254-3

R.T.: 11.849 min
Delta R.T.: -0.011 min
Response: 666260
Conc: 966.41 pg/uL



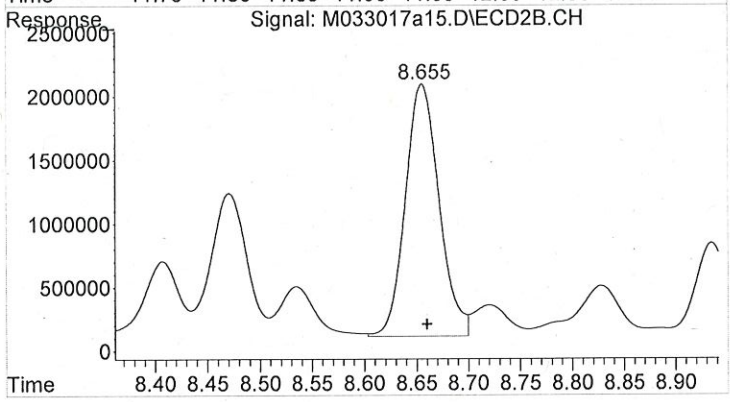
#3 1254-3

R.T.: 8.471 min
Delta R.T.: -0.009 min
Response: 1127945
Conc: 969.76 pg/uL



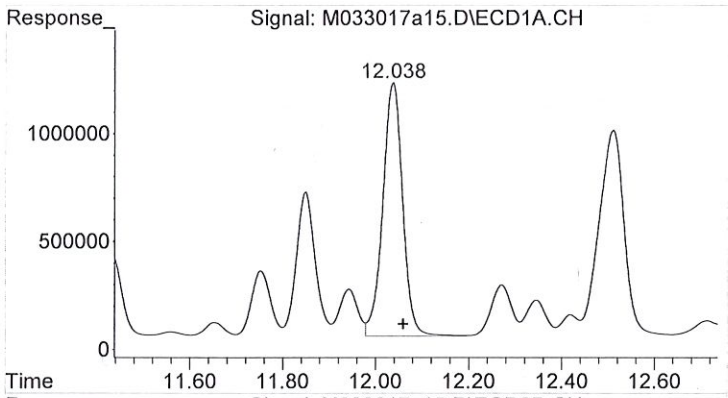
#4 1254-4

R.T.: 11.943 min
Delta R.T.: -0.018 min
Response: 217161
Conc: 939.63 pg/uL



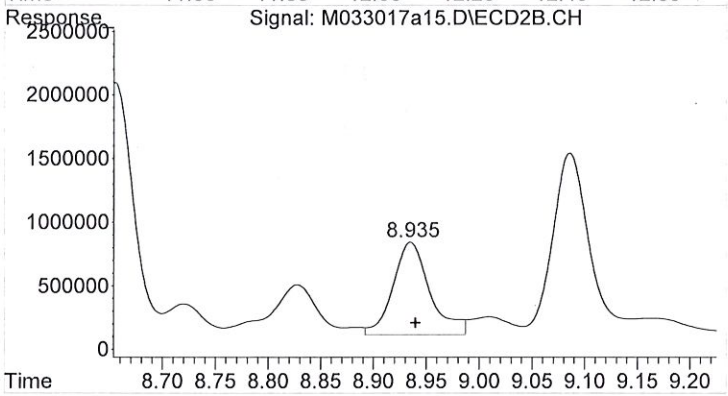
#4 1254-4

R.T.: 8.655 min
Delta R.T.: -0.005 min
Response: 1981113
Conc: 947.25 pg/uL



#5 1254-5

R.T.: 12.037 min
Delta R.T.: -0.023 min
Response: 1174009
Conc: 953.80 pg/uL



#5 1254-5

R.T.: 8.935 min
Delta R.T.: -0.005 min
Response: 729174
Conc: 963.33 pg/uL

PCB SSV Report

Data File....: M033017a16.D
Dataname.....: 87PCB110116E
Analyzed.....: 03/30/2017 17:07

Analyst.....: DWOOD
Instrument.....: Minerva
Analysis Method: 8082A

SSV Level..: 100 pg/uL
ICAL Date..: 03/30/2017

Datafile path....: J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\M033017a16.D
DP Method path...: J:\Organics\Minerva\Methods\M033017PCB1254.M

PCB 1254 Std 100pg/uL

CAS #	Compound	RT	Exp RT	Area	Spike (expected)	Amount (pg)	%Rec	Flag
Surrogate								
Target					Criteria range: 70-130%			
	1254 -1	11.33	11.34	113962	100	99.0	99	
	1254-2	11.75	11.77	34409	100	96.3	96	
	1254-3	11.85	11.86	72151	100	98.3	98	
	1254-4	11.94	11.96	21883	100	90.4	90	
	1254-5	12.04	12.06	127133	100	96.4	96	
	1254 -1 #2	7.69	7.69	129207	100	99.4	99	
	1254-2 #2	8.07	8.07	167101	100	102	102	
	1254-3 #2	8.47	8.48	110682	100	95.9	96	
	1254-4 #2	8.66	8.66	195618	100	95.4	95	
	1254-5 #2	8.94	8.94	84401	100	110	110	

Average %Recovery:	%Rec
1254 Column 1 (n=5)	96
1254 Column 2 (n=5)	101

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 17:07 pm
Operator : DWOOD
Sample : 87PCB110116E
Misc : PCB 1254 Std 100pg/uL
ALS Vial : 0 (Sig #1); 15 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:32:27 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1254 -1	11.330	7.685	113962	129207	98.967	99.426
2) L1 1254-2	11.754	8.066	34409	167101	96.311	102.095
3) L1 1254-3	11.851	8.472	72151	110682	98.269	95.898
4) L1 1254-4	11.944	8.658	21883	195618	90.397	95.377
5) L1 1254-5	12.040	8.938	127133	84401	96.403	110.251
Sum 1254 -1			369537	687007	480.347	503.048
Average 1254 -1					96.069	100.610

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

WW
3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 17:07 pm
Operator : DWOOD
Sample : 87PCB110116E
Misc : PCB 1254 Std 100pg/uL
ALS Vial : 0 (Sig #1); 15 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:32:27 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1254 -1	11.330	7.685	113962	129207	98.967	99.426
2) L1 1254-2	11.754	8.066	34409	167101	96.311	102.095
3) L1 1254-3	11.851	8.472	72151	110682	98.269	95.898
4) L1 1254-4	11.944	8.658	21883	195618	90.397	95.377
5) L1 1254-5	12.040	8.938	127133	84401	96.403	110.251
Sum 1254 -1			369537	687007	480.347	503.048
Average 1254 -1					96.069	100.610

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

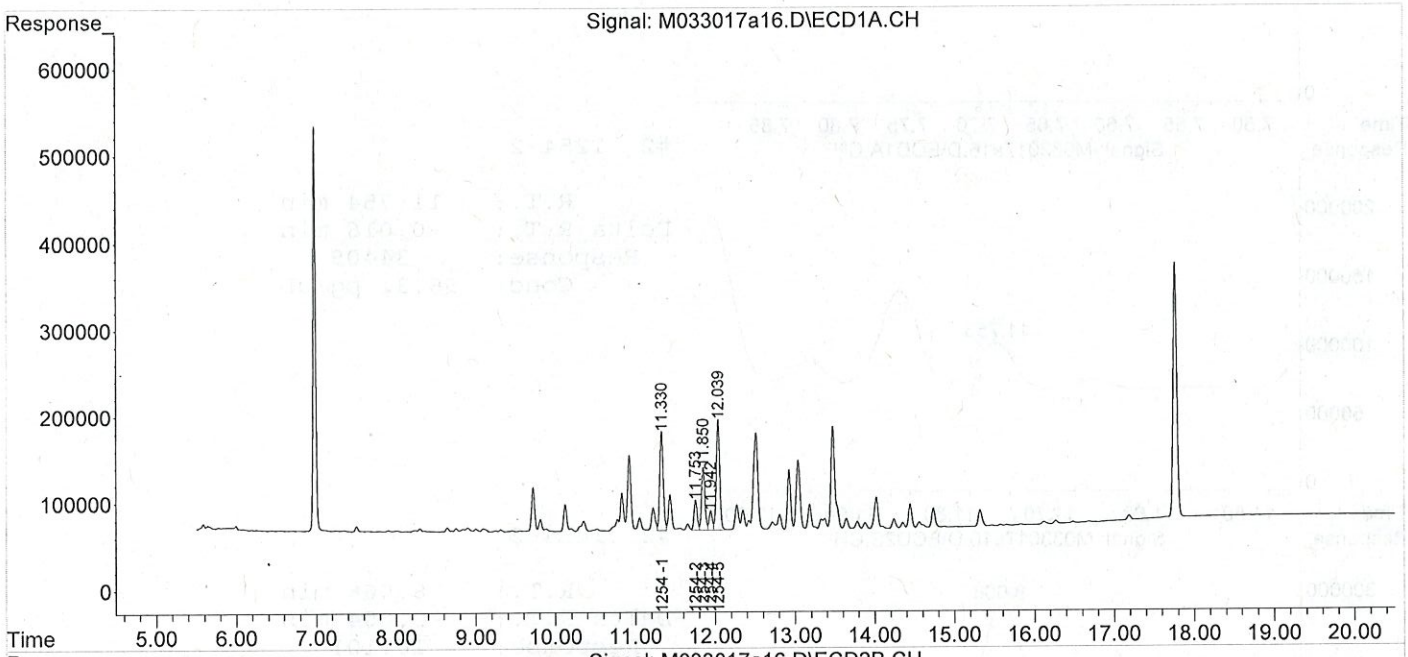
MW
3/31/17

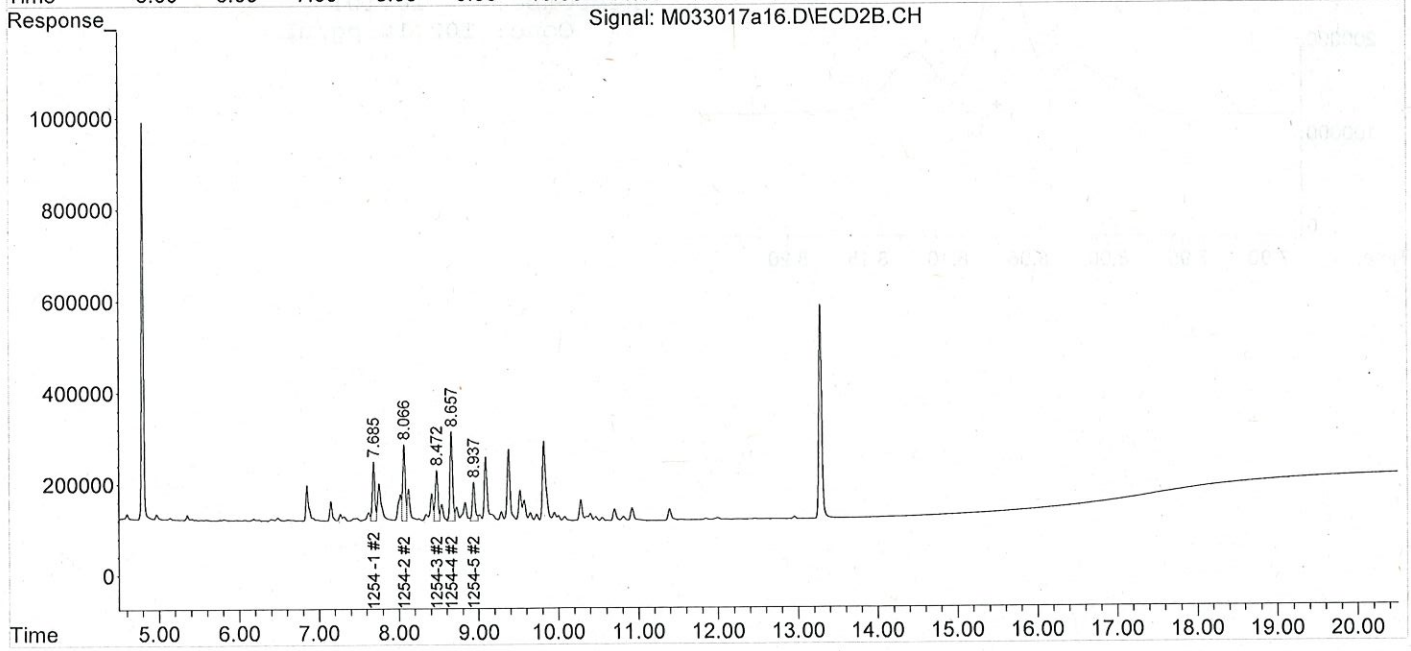
Quantitation Report (QT Reviewed)

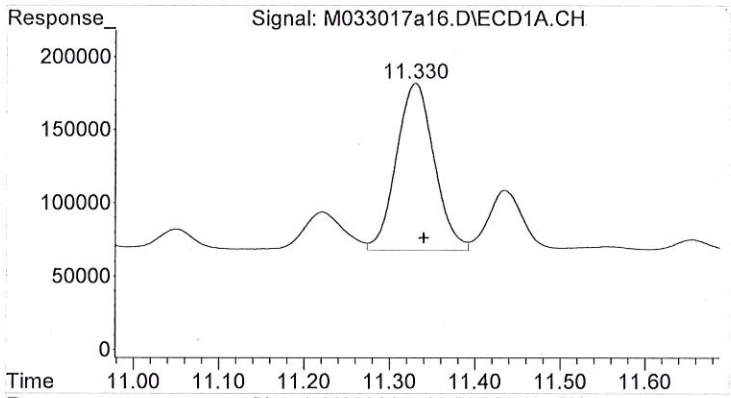
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCBDW\
Data File : M033017a16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 17:07 pm
Operator : DWOOD
Sample : 87PCB110116E
Misc : PCB 1254 Std 100pg/uL
ALS Vial : 0 (Sig #1); 15 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:32:27 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

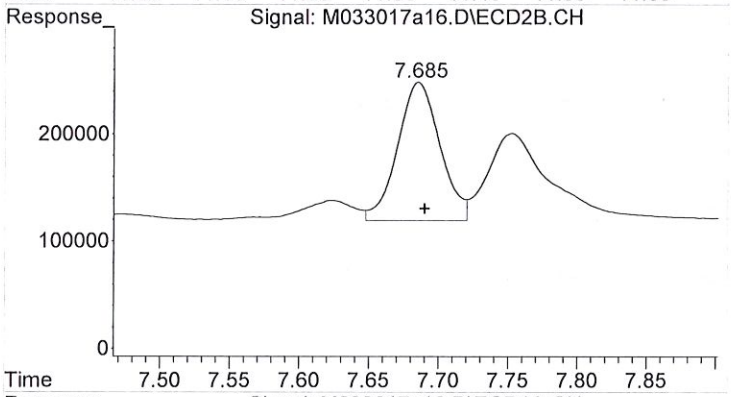






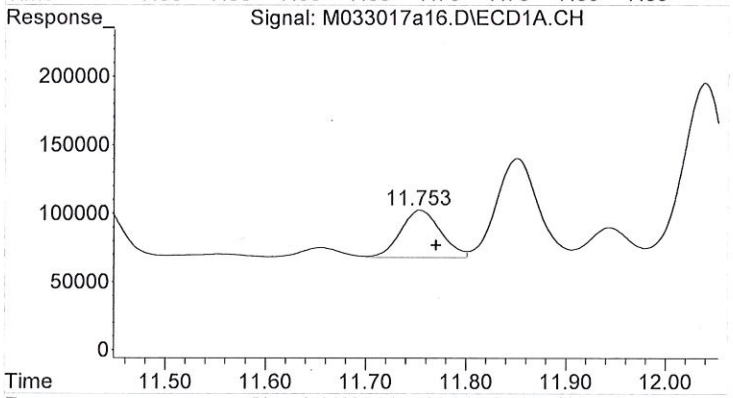
#1 1254 -1

R.T.: 11.330 min
Delta R.T.: -0.010 min
Response: 113962
Conc: 98.97 pg/uL



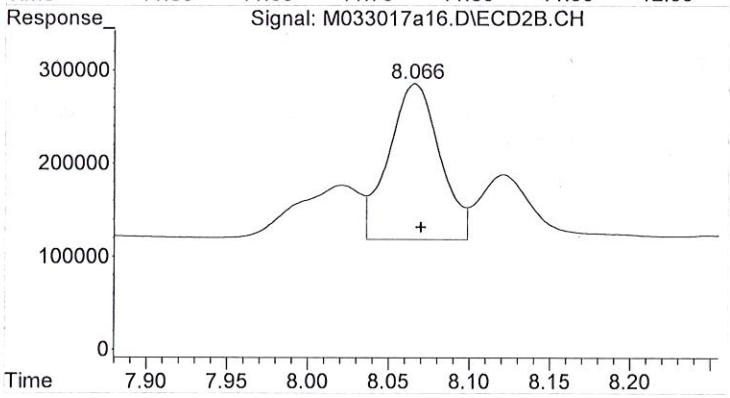
#1 1254 -1

R.T.: 7.685 min
Delta R.T.: -0.005 min
Response: 129207
Conc: 99.43 pg/uL



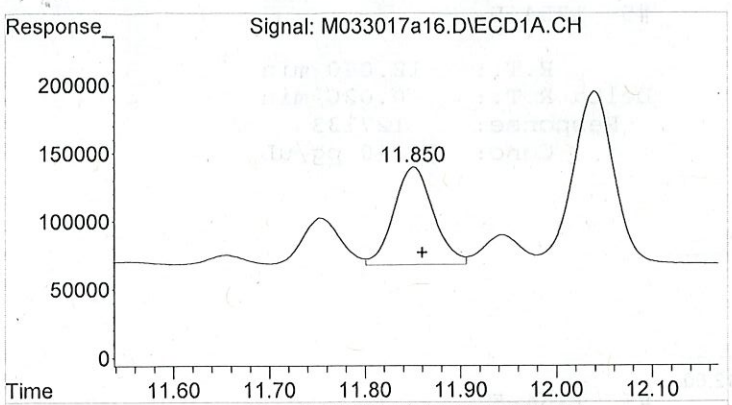
#2 1254-2

R.T.: 11.754 min
Delta R.T.: -0.016 min
Response: 34409
Conc: 96.31 pg/uL



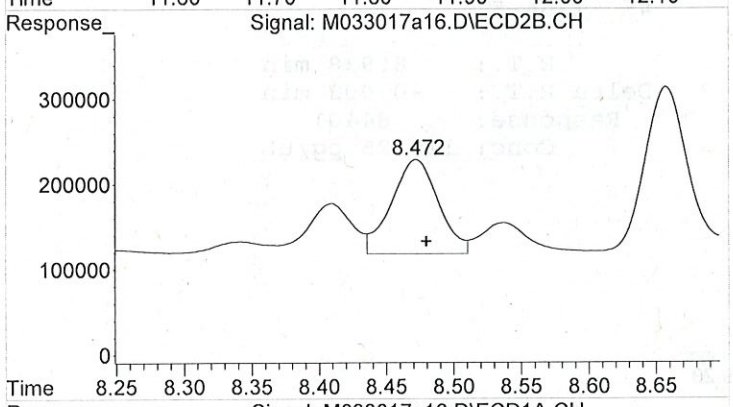
#2 1254-2

R.T.: 8.066 min
Delta R.T.: -0.004 min
Response: 167101
Conc: 102.10 pg/uL



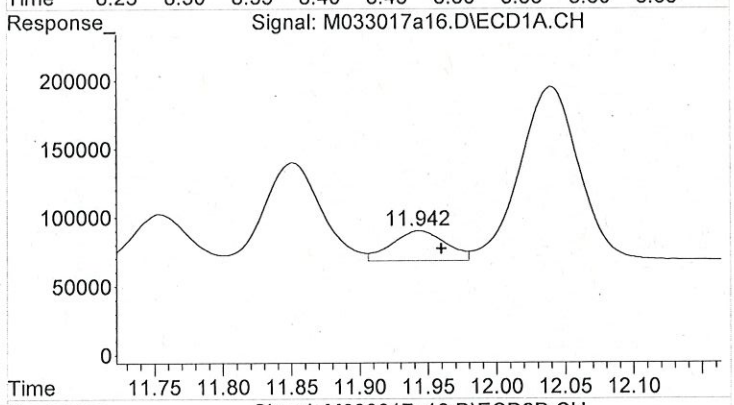
#3 1254-3

R.T.: 11.851 min
Delta R.T.: -0.009 min
Response: 72151
Conc: 98.27 pg/uL



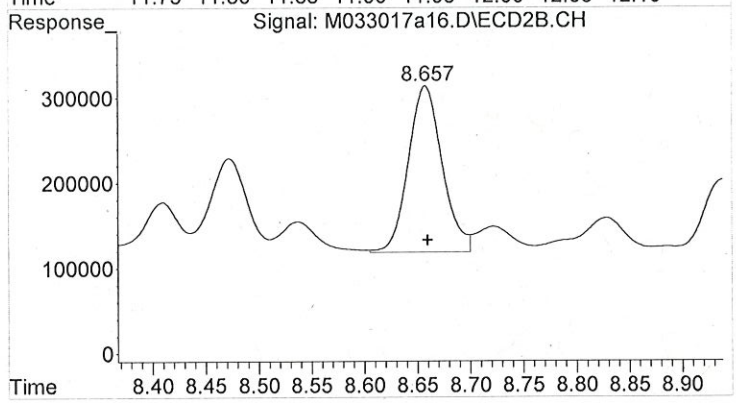
#3 1254-3

R.T.: 8.472 min
Delta R.T.: -0.008 min
Response: 110682
Conc: 95.90 pg/uL



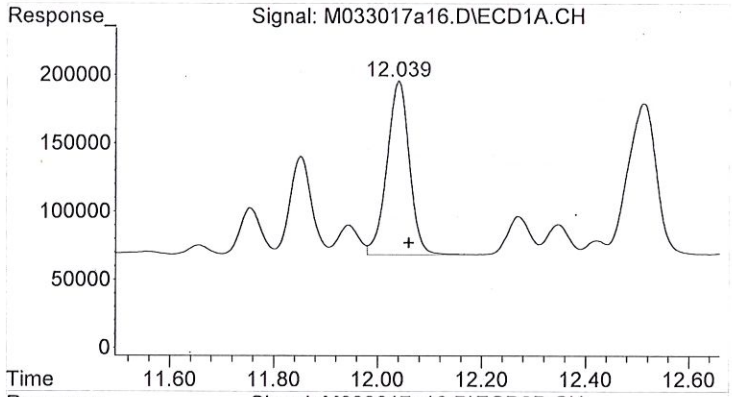
#4 1254-4

R.T.: 11.944 min
Delta R.T.: -0.016 min
Response: 21883
Conc: 90.40 pg/uL



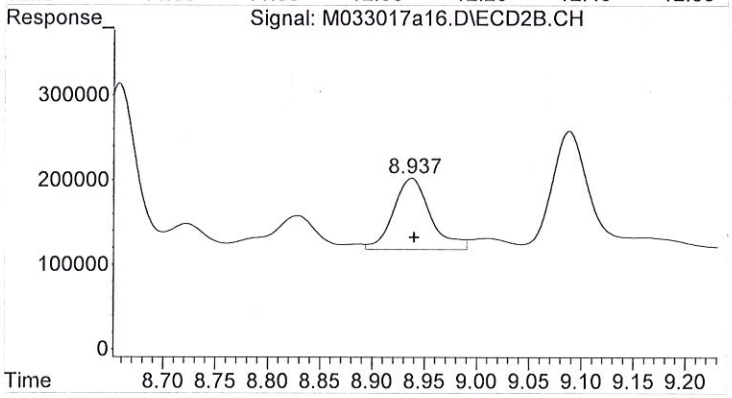
#4 1254-4

R.T.: 8.658 min
Delta R.T.: -0.002 min
Response: 195618
Conc: 95.38 pg/uL



#5 1254-5

R.T.: 12.040 min
Delta R.T.: -0.020 min
Response: 127133
Conc: 96.40 pg/uL



#5 1254-5

R.T.: 8.938 min
Delta R.T.: -0.002 min
Response: 84401
Conc: 110.25 pg/uL