US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009B **Parameter:** PCB **Sample ID:** 16334000
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** Wipe/Swab
Account Code: 20162017B10P501E50 **Container ID :**

Collected: 8/18/16 Prepped: 8/24/16 Released:
Received: 8/19/16 Reviewed:
Promised:
VERIFIED ___/___/___ _____ **Analysis Seq :** 7

Initial Amount: ~~40 mL~~ NA CP 10/11/16 **Weight Basis:** ~~Dry~~ ← For all **Suffix:**
Final Amount: 10 mL **%Solids:** ~~* 100~~
Dilution Factor: 1 **Analyzed:** 8/25/16 10:28 am
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M082516PCB03-8082A-MINERVA-DWO-082516

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	105	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
7	11097691	PCB-1254	Target	0.25	ug	U	0.25ug
8	11096825	PCB-1260	Target	0.25	ug	U	0.25ug
9	2051243	PCB Congener 209	Surrogate	100	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009B **Parameter:** PCB **Sample ID:** 16334001

Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample

Project Officer: Michelle Mullin **Matrix:** Solid

Account Code: 20162017B10P501E50 **Container ID :**

Collected: 8/18/16 Prepped: 8/24/16 Released:

Received: 8/19/16 Reviewed:

Promised: 10/14/16

VERIFIED ___/___/___ _____ **Analysis Seq :** 8

Initial Amount: 1 g **Weight Basis:** Dry **Suffix:**

Final Amount: 10 mL **%Solids:** * 100

Dilution Factor: 1 **Analyzed:** 8/25/16 10:53 am

Method: 8082A Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-M082516PCB03-8082A-MINERVA-DWO-082516

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	113	%Rec		
2	11104282	PCB-1221	Target	250	ug/kg	U	250ug/kg
3	11141165	PCB-1232	Target	250	ug/kg	U	250ug/kg
4	12674112	PCB-1016	Target	250	ug/kg	U	250ug/kg
5	53469219	PCB-1242	Target	250	ug/kg	U	250ug/kg
6	12672296	PCB-1248	Target	250	ug/kg	U	250ug/kg
7	11097691	PCB-1254	Target	250	ug/kg	U	250ug/kg
8	11096825	PCB-1260	Target	250	ug/kg	U	250ug/kg
9	2051243	PCB Congener 209	Surrogate	106	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009B **Parameter:** PCB **Sample ID:** 16334002

Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample

Project Officer: Michelle Mullin **Matrix:** Wipe/Swab

Account Code: 20162017B10P501E50 **Container ID :**

Collected: 8/18/16 Prepped: 8/24/16 Released:

Received: 8/19/16 Reviewed:

Promised:

VERIFIED ___/___/___ _____ **Analysis Seq :** 9

Initial Amount: ~~40 mL~~ NA CP 10/11/16 **Weight Basis:** Dry **Suffix:**

Final Amount: 10 mL **%Solids:** * 100

Dilution Factor: 1 **Analyzed:** 8/25/16 11:17 am

Method: 8082A Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-M082516PCB03-8082A-MINERVA-DWO-082516

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	111	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
7	11097691	PCB-1254	Target	0.25	ug	U	0.25ug
8	11096825	PCB-1260	Target	0.25	ug	U	0.25ug
9	2051243	PCB Congener 209	Surrogate	103	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009B **Parameter:** PCB **Sample ID:** 16334003

Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample

Project Officer: Michelle Mullin **Matrix:** Solid

Account Code: 20162017B10P501E50 **Container ID :**

Collected: 8/18/16 Prepped: 8/24/16 Released:

Received: 8/19/16 Reviewed:

Promised: 10/14/16

VERIFIED ___/___/___ _____ **Analysis Seq :** 10

Initial Amount: 1.1 g **Weight Basis:** Dry **Suffix:**

Final Amount: 10 mL **%Solids:** * 100

Dilution Factor: 1 **Analyzed:** 8/25/16 11:42 am

Method: 8082A Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-M082516PCB03-8082A-MINERVA-DWO-082516

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	114	%Rec		
2	11104282	PCB-1221	Target	230	ug/kg	U	230ug/kg
3	11141165	PCB-1232	Target	230	ug/kg	U	230ug/kg
4	12674112	PCB-1016	Target	230	ug/kg	U	230ug/kg
5	53469219	PCB-1242	Target	230	ug/kg	U	230ug/kg
6	12672296	PCB-1248	Target	230	ug/kg	U	230ug/kg
7	11097691	PCB-1254	Target	230	ug/kg	U	230ug/kg
8	11096825	PCB-1260	Target	230	ug/kg	U	230ug/kg
9	2051243	PCB Congener 209	Surrogate	108	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009B **Parameter:** PCB **Sample ID:** 16334004
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** Wipe/Swab
Account Code: 20162017B10P501E50 **Container ID :**

Collected: 8/18/16 Prepped: 8/24/16 Released:
Received: 8/19/16 Reviewed:
Promised:

VERIFIED ___/___/___ _____ **Analysis Seq :** 11

Initial Amount: ~~40 mL~~ NA **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL CP 10/11/16 **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 8/25/16 12:07 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M082516PCB03-8082A-MINERVA-DWO-082516

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	109	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
7	11097691	PCB-1254	Target	0.25	ug	U	0.25ug
8	11096825	PCB-1260	Target	0.25	ug	U	0.25ug
9	2051243	PCB Congener 209	Surrogate	60	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009B **Parameter:** PCB **Sample ID:** 92O082416B1
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Blank
Project Officer: Michelle Mullin **Matrix:** Swab
Account Code: 20162017B10P501E50 **Container ID :**

Collected: Prepped: 8/24/16 Released:
Received: Reviewed:
Promised:
VERIFIED ___/___/___ _____ **Analysis Seq :** 4

Initial Amount: ~~40 mL~~ NA CP 10/11/16 **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL LO/10/ **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 8/25/16 9:14 am
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M082516PCB03-8082A-MINERVA-DWO-082516

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	104	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
7	11097691	PCB-1254	Target	0.25	ug	U	0.25ug
8	11096825	PCB-1260	Target	0.25	ug	U	0.25ug
9	2051243	PCB Congener 209	Surrogate	94	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009B **Parameter:** PCB **Sample ID:** 92O082416L1
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Lab Control Std
Project Officer: Michelle Mullin **Matrix:** Swab
Account Code: 20162017B10P501E50 **Container ID :**

Collected: Prepped: 8/24/16 Released:
Received: Reviewed:
Promised:
VERIFIED ___/___/___ _____ **Analysis Seq :** 5

Initial Amount: ~~40 mL~~ NA cr 10/11/16 **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 8/25/16 9:39 am
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M082516PCB03-8082A-MINERVA-DWO-082516

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	106	%Rec		
4	12674112	PCB-1016	Spike	102	%Rec		0.25ug
8	11096825	PCB-1260	Spike	103	%Rec		0.25ug
9	2051243	PCB Congener 209	Surrogate	99	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009B **Parameter:** PCB **Sample ID:** 92O082416L2
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Lab Control Std Dup.
Project Officer: Michelle Mullin **Matrix:** Swab
Account Code: 20162017B10P501E50 **Container ID :**

Collected: Prepped: 8/24/16 Released:
Received: Reviewed:
Promised:
VERIFIED ___/___/___ _____ **Analysis Seq :** 6

Initial Amount: ~~40 mL~~ NA **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL
Dilution Factor: 1 **Analyzed:** 8/25/16 10:03 am **%Solids:** * 100
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M082516PCB03-8082A-MINERVA-DWO-082516

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	106	%Rec		
4	12674112	PCB-1016	Spike	101	%Rec		0.25ug
8	11096825	PCB-1260	Spike	103	%Rec		0.25ug
9	2051243	PCB Congener 209	Surrogate	100	%Rec		

- Analyst Case Narrative

Analytical Narrative

DATE: September 23, 2016

TO: Chris Pace, Organic Chemistry Technical Lead, USEPA, Region 10

FROM: Doug Wood, Chemist, USEPA, Region 10

SUBJECT: Analyst Report of PCB Analysis Week 33

Project Name: Sky Valley Education Center PCB Inspection
Project Code: OCE-009B
Account Code: 20162017B10P501E50

Samples

16334000 16334001 16334002 16334003 16334004

Analyst Report

The samples were extracted using SOP OR_P042A. Analysis was performed according to OR_A8082A on an Agilent 6890 GC with dual Electron Capture Detectors. A 1μL injection was used for all samples, blanks, and standards.
Column 2 was used for quantitation of all samples.

All samples were concentrated to a final volume of 10mL. A 1mL aliquot of each extract was removed and treated with concentrated sulfuric acid followed by treatment with copper powder.

No further problems encountered with this sample set.

Manual integrations were performed by the analyst in cases where the data processing system failed to identify a peak or, in the professional judgment of the analyst, the peak was not accurately integrated by the data processing system due to such problems as including too much baseline, shoulder peaks, splitting a peak, etc. Compounds that required manual integrations are clearly identified and verified in the Target Compound Summary reports. All resulting peak integrations are clearly displayed in the data package for review.

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

Analysis Log Method: Analyst: DWOOD Initial:

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
25 Aug 2016 8:00 am	M082516pcb01.D	10161260condition5000	condition 1016/1260 2500 pg/uL	
25 Aug 2016 8:25 am	M082516pcb02.D	87PCB011916J	Instrument Blank 100pg/ul	
25 Aug 2016 8:49 am	M082516pcb03.D	87PCB062716I	PCB 1016/1260 Cont Cal 100pg/uL	
25 Aug 2016 9:14 am	M082516pcb04.D	92O082416B1	Sky Valley PCB Wipes 10mL fv	
25 Aug 2016 9:39 am	M082516pcb05.D	92O082416L1	Sky Valley PCB Wipes 10mL fv	
25 Aug 2016 10:03 am	M082516pcb06.D	92O082416L2	Sky Valley PCB Wipes 10mL fv	
25 Aug 2016 10:28 am	M082516pcb07.D	16334000	Sky Valley PCB Wipes 10mL fv	
25 Aug 2016 10:53 am	M082516pcb08.D	16334001	Sky Valley PCB Bottle Blank 10mL fv	
25 Aug 2016 11:17 am	M082516pcb09.D	16334002	Sky Valley PCB Wipes 10mL fv	
25 Aug 2016 11:42 am	M082516pcb10.D	16334003	Sky Valley PCB Insulation 1.10g 10mL fv	
25 Aug 2016 12:07 pm	M082516pcb11.D	16334004	Sky Valley PCB Wipes 10mL fv	
25 Aug 2016 12:31 pm	M082516pcb12.D	87PCB011916J	Instrument Blank 100pg/ul	
25 Aug 2016 12:56 pm	M082516pcb13.D	87PCB062716I	PCB 1016/1260 Cont Cal 100pg/uL	
25 Aug 2016 13:40 pm	M082516pcb14.D	87PCB062716I	PCB 1016/1260 Cont Cal 100pg/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: lw

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
19 Aug 2016 8:50 am	M081916pcb01.D	10161260condition5000	condition 1016/1260 2500 pg/uL	.
19 Aug 2016 9:15 am	M081916pcb02.D	87PCB011916J	Instrument Blank 100pg/ul	.
19 Aug 2016 9:39 am	M081916pcb03.D	87PCB062716B	PCB 1016/1260 ICAL 25 pg/uL	.
19 Aug 2016 10:04 am	M081916pcb04.D	87PCB062716C	PCB 1016/1260 ICAL 50 pg/uL	.
19 Aug 2016 10:29 am	M081916pcb05.D	87PCB062716I	PCB 1016/1260 ICAL 100 pg/uL	.
19 Aug 2016 10:53 am	M081916pcb06.D	87PCB062716E	PCB 1016/1260 ICAL 250 pg/uL	.
19 Aug 2016 11:18 am	M081916pcb07.D	87PCB062716F	PCB 1016/1260 ICAL 500 pg/uL	.
19 Aug 2016 11:43 am	M081916pcb08.D	87PCB062716G	PCB 1016/1260 ICAL 1000 pg/uL	.
19 Aug 2016 12:07 pm	M081916pcb09.D	87PCB062716H	PCB 1016/1260 ICAL 2500 pg/uL	.
19 Aug 2016 12:32 pm	M081916pcb10.D	87PCB012016A	SSV 1016 100pg/uL } Expired - rerun	.
19 Aug 2016 12:57 pm	M081916pcb11.D	87PCB012016G	SSV 1260 100pg/uL	.
19 Aug 2016 13:21 pm	M081916pcb12.D	87PCB011916J	Instrument Blank 100pg/ul	.
19 Aug 2016 14:13 pm	M081916pcb13.D	87PCB081816I	SSV 1016 100pg/uL	.
19 Aug 2016 14:38 pm	M081916pcb14.D	87PCB081816K	SSV 1260 100pg/uL	.
19 Aug 2016 15:03 pm	M081916pcb15.D	87PCB020816A	SSV 1221 200pg/uL	.
19 Aug 2016 15:27 pm	M081916pcb16.D	87PCB020816B	SSV 1232 100pg/uL	.
19 Aug 2016 15:52 pm	M081916pcb17.D	87PCB020816C	SSV 1242 100pg/uL	.
19 Aug 2016 16:17 pm	M081916pcb18.D	87PCB020816D	SSV 1248 100pg/uL	.
19 Aug 2016 16:41 pm	M081916pcb19.D	87PCB020816E	SSV 1254 100pg/uL	.

Calibration Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M081916PCB1260.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Fri Aug 19 13:11:44 2016
Response Via : Initial Calibration

Calibration Files
2500=M081916pcb09 1000=M081916pcb08 500 =M081916pcb07 250 =M081916pcb06 100 =M081916pcb0!
50 =M081916pcb04 25 =M081916pcb03

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S1	tmx (1)	Lin	1.2778 e4	2.1263 e4	-----	0.9937
2)	L1	1016 -1	Quad	3.1757 e3	4.2349 e2	-0.1008	0.9986
3)	L1	1016-2	Quad	3.8789 e3	5.0882 e2	-0.1151	0.9992
4)	L1	1016-3	Quad	4.2926 e3	6.6185 e2	-0.1506	0.9984
5)	L1	1016-4	Quad	2.5102 e3	4.4515 e2	-0.1003	0.9984
6)	L1	1016-5	Quad	2.1519 e2	1.4535 e2	-0.0443	0.9986
7)	L2	1260-1	Lin	1.0893 e4	8.4982 e2	-----	0.9921
8)	L2	1260-2	Lin	1.1395 e4	1.0251 e3	-----	0.9920
9)	L2	1260-3	Lin	1.0264 e4	1.0342 e3	-----	0.9925
10)	L2	1260-4	Lin	6.3300 e3	7.0084 e2	-----	0.9931
11)	L2	1260-5	Lin	3.0775 e3	4.4285 e2	-----	0.9922
12)	S1	dcb	Lin	9.3711 e3	1.1241 e4	-----	0.9933

Signal #2

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S2	tmx (1)	Lin	3.1680 e4	3.3691 e4	-----	0.9948
2)	L1	1016 -1	Lin	6.2211 e3	6.6536 e2	-----	0.9920
3)	L1	1016-2	Lin	8.7224 e3	1.0628 e3	-----	0.9910
4)	L1	1016-3	Lin	8.9054 e3	1.6212 e3	-----	0.9928
5)	L1	1016-4	Lin	6.5968 e3	9.4655 e2	-----	0.9933
6)	L1	1016-5	Lin	4.0210 e3	6.8020 e2	-----	0.9946
7)	L2	1260-1	Lin	1.0663 e4	1.4958 e3	-----	0.9931
8)	L2	1260-2	Lin	1.3465 e4	2.1693 e3	-----	0.9931
9)	L2	1260-3	Lin	6.9275 e3	1.7075 e3	-----	0.9957
10)	L2	1260-4	Lin	8.7219 e3	2.8348 e3	-----	0.9935
11)	L2	1260-5	Lin	1.9171 e3	7.2450 e2	-----	0.9962
12)	S2	dcb	Lin	1.1234 e4	2.1089 e4	-----	0.9942

M081916PCB1260.M Fri Aug 19 13:17:49 2016

ICAL Series	M081916pcb09.D		through	M081916pcb03.D			
Last Calibration Update	Fri Aug 19 13:11:44 2016						
	2500.000	1000.000	500.000	250.000	100.000	50.000	25.000
Analyte	%Difference from expected						
tmx (1)	-9.1	-3.5	2.0	12.7	-0.2	-1.3	-0.5
1016 -1		1.5	-4.2	4.6	-2.7	1.1	-0.2
1016-2		0.3	-2.0	3.9	-2.4	-0.1	0.4
1016-3		1.1	-4.1	5.6	-2.5	-0.4	0.5
1016-4		1.5	-3.9	4.2	-3.4	2.4	-0.6
1016-5		1.0	-3.7	5.1	-1.2	-2.0	0.9
1260-1		-10.2	-3.8	10.0	4.6	2.5	-2.9
1260-2		-10.8	-2.4	10.8	2.4	2.5	-2.5
1260-3		-9.1	-3.4	11.7	0.4	2.7	-2.2
1260-4		-9.2	-3.7	10.1	2.6	2.9	-2.71
1260-5		-10.0	-2.7	11.8	1.3	1.5	-1.8
dcb	-8.1	-6.8	0.5	12.4	3.0	1.6	-2.6
Signal #2							
tmx (1) #2	-4.1	1.4	9.5	19.8	-0.7	-6.8	-19.1
1016 -1 #2		-10.8	-1.7	11.4	1.0	2.3	-2.2
1016-2 #2		-11.9	-1.0	11.3	0.9	3.4	-2.7
1016-3 #2		-8.8	-0.2	12.1	-2.6	-0.5	-0.1
1016-4 #2		-10.5	1.4	9.8	-1.1	1.6	-1.3
1016-5 #2		-7.5	0.1	10.6	-2.6	-0.7	0.1
1260-1 #2		-9.2	-0.7	11.6	-1.6	0.7	-0.8
1260-2 #2		-8.7	-1.3	11.9	-1.8	0.7	-0.8
1260-3 #2		-7.2	2.0	8.4	-3.3	0.2	0.0
1260-4 #2		-7.2	0.3	11.7	-3.7	-2.2	1.0
1260-5 #2		-5.7	-0.8	9.2	-1.6	-1.5	0.4
dcb #2	-6.7	-5.4	2.2	12.2	-3.2	2.4	-1.5

ICAL Series M081916pcb08.D through M081916pcb03.D
Last Calibration Update Fri Aug 19 13:11:44 2016

	Concentration		2500.000	1000.000	500.000	250.000	100.000	50.000	25.000
1	0 tmx (1)		227.1912	96.48559	50.97833	28.17687	9.975897	4.93437	2.488177
2	0 1016 -1	QUAD		1015.279	479.0416	261.6173	97.29678	50.55196	24.95907
3	0 1016-2	QUAD		1002.662	489.819	259.8288	97.61477	49.93628	25.09093
4	0 1016-3	QUAD		1011.445	479.3876	263.8886	97.53242	49.78594	25.11439
5	0 1016-4	QUAD		1014.731	480.5705	260.5076	96.63575	51.18208	24.85034
6	0 1016-5	QUAD		1010.357	481.5949	262.7365	98.78847	49.01402	25.23594
7	0 1260-1			897.6956	480.8051	274.9039	104.5618	51.23478	24.26911
8	0 1260-2			892.0656	488.0464	277.0948	102.386	51.24929	24.36472
9	0 1260-3			908.8584	482.8825	279.2044	100.3844	51.33529	24.44969
10	0 1260-4			907.8249	481.6434	275.2026	102.5756	51.47022	24.32294
11	0 1260-5			900.3507	486.4479	279.4898	101.2593	50.7298	24.54
12	0 dcb		229.7731	93.19179	50.25522	28.0958	10.29569	5.079868	2.436216
13	0 Signal #2								
14	0 tmx (1) #2		239.7595	101.425	54.75036	29.9536	9.930958	4.659685	2.021335
15	0 1016 -1 #2			892.3148	491.5946	278.3948	100.9921	51.13002	24.45983
16	0 1016-2 #2			881.2127	494.8464	278.3674	100.8578	51.7059	24.3234
17	0 1016-3 #2			912.3439	499.1584	280.3615	97.35847	49.75668	24.97914
18	0 1016-4 #2			895.0425	507.0822	274.6219	98.936	50.82216	24.66261
19	0 1016-5 #2			924.9247	500.6446	276.4228	97.37544	49.65382	25.03169
20	0 1260-1 #2			908.4063	496.4767	279.0716	98.37067	50.3558	24.78824
21	0 1260-2 #2			912.8503	493.6248	279.7882	98.15255	50.37099	24.79535
22	0 1260-3 #2			927.5547	509.8055	271.0842	96.67898	50.10049	24.99232
23	0 1260-4 #2			927.6697	501.6396	279.3192	96.34826	48.92446	25.24501
24	0 1260-5 #2			943.364	495.8695	272.9076	98.43082	49.23682	25.10544
25	0 dcb #2		233.2663	94.60182	51.0975	28.04966	9.684088	5.119662	2.461654

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 9:39 am
Operator : DWOOD
Sample : 87PCB062716B
Misc : PCB 1016/1260 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:13 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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)	7.003	4.887	65684	99781	2.488	2.021
12) S2 dcb	17.831	13.426	36757	63149	2.436	2.462
Target Compounds						
2) L1 1016 -1	7.615	5.427	13683	22496	24.959	24.460
3) L1 1016-2	8.681	5.895	16573	34574	25.091	24.323
4) L1 1016-3	9.337	6.518	20820	49401	25.114m	24.979
5) L1 1016-4	9.482	6.695	13510	29941	24.850m	24.663
6) L1 1016-5	9.584	6.779	3855	21048	25.236m	25.032
Sum 1016 -1			68441	157459	125.251	123.457
Average 1016 -1					25.050	24.691
7) L2 1260-1	12.535	9.062	31517	47741	24.269	24.788
8) L2 1260-2	12.973	9.503	36371	67254	24.365	24.795
9) L2 1260-3	13.522	9.948	35551	49601	24.450	24.992
10) L2 1260-4	15.373	11.056	23377	80287	24.323	25.245
11) L2 1260-5	16.539	12.601	13945	20106	24.540	25.106
Sum 1260-1			140760	264988	121.947	124.926
Average 1260-1					24.389	24.985

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

8/19/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 9:39 am
Operator : DWOOD
Sample : 87PCB062716B
Misc : PCB 1016/1260 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 12:58:10 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Jul 20 09:11:32 2016
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)	7.003	4.887	65684	99781	2.413	1.843
12) S2 dcb	17.831	13.426	36757	63149	2.311	2.466
Target Compounds						
2) L1 1016 -1	7.615	5.427	13683	22496	21.176	23.645
3) L1 1016-2	8.681	5.895	16573	34574	21.556	29.473 #
4) L1 1016-3	9.337	6.518	20766 B	49401	20.458	24.250
5) L1 1016-4	9.481	6.695	13367 B	29941	19.947	23.544
6) L1 1016-5	0.000	6.779	0 I	21048	N.D.	24.278 #
Sum 1016 -1			64389	157459	83.137	125.191
Average 1016 -1					20.784	25.038
7) L2 1260-1	12.535	9.062	31517	47741	20.957	24.107
8) L2 1260-2	12.973	9.503	36371	67254	20.801	24.502
9) L2 1260-3	13.522	9.948	35551	49601	20.111	24.411
10) L2 1260-4	15.373	11.056	23377	80287	17.527	25.111 #
11) L2 1260-5	16.539	12.601	13945	20106	21.410	23.743
Sum 1260-1			140760	264988	100.806	121.874
Average 1260-1					20.161	24.375

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

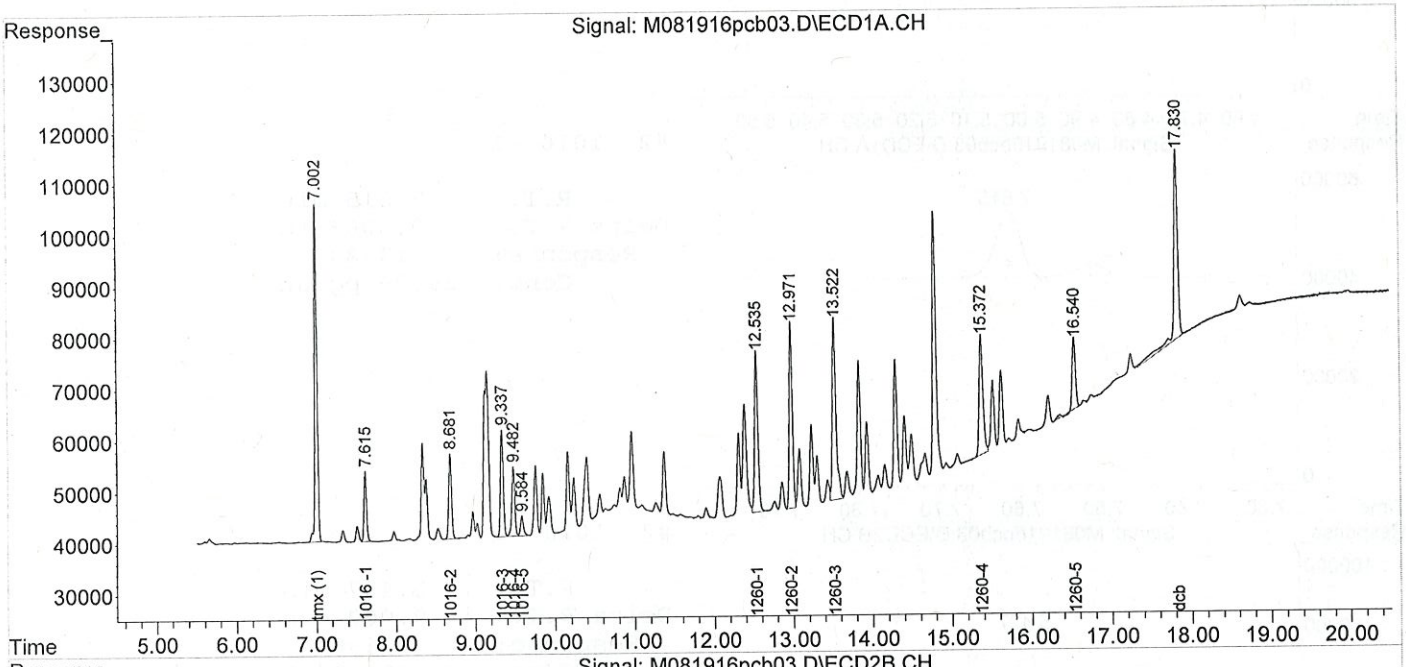
8/19/16

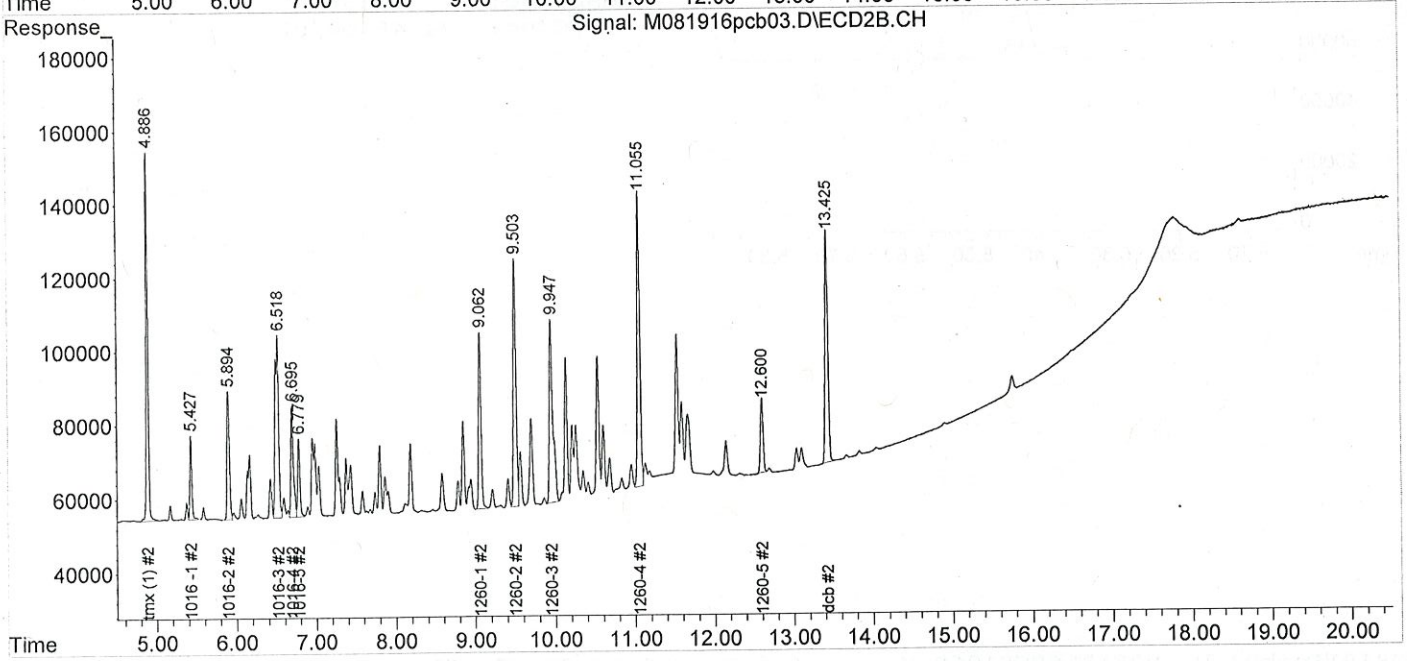
Quantitation Report (QT Reviewed)

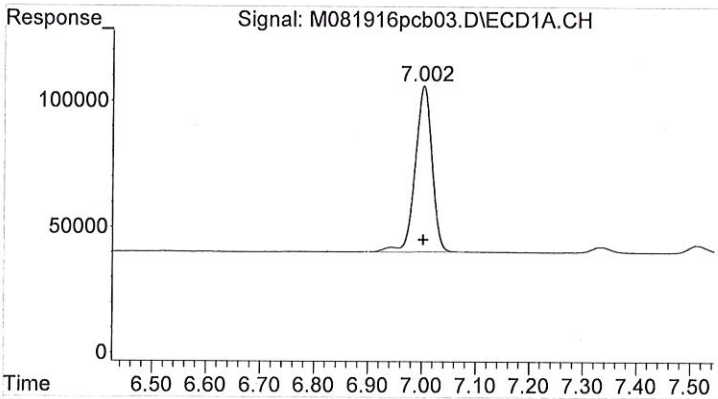
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 9:39 am
Operator : DWOOD
Sample : 87PCB062716B
Misc : PCB 1016/1260 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:13 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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

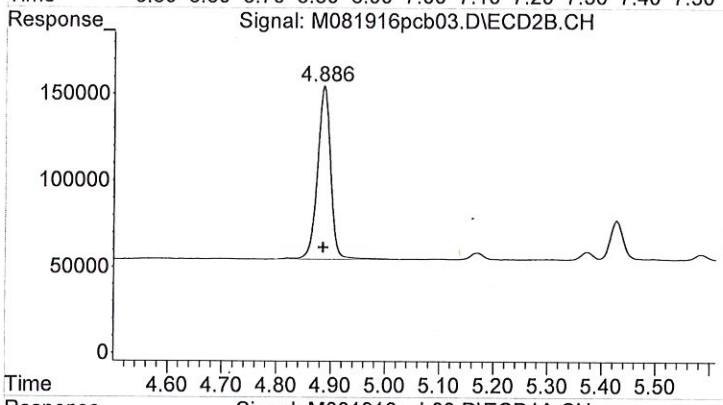






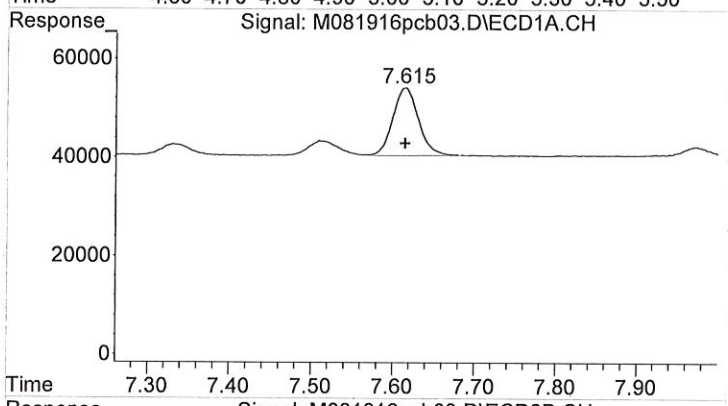
#1 tmx (1)

R.T.: 7.003 min
Delta R.T.: 0.000 min
Response: 65684
Conc: 2.49 pg/uL



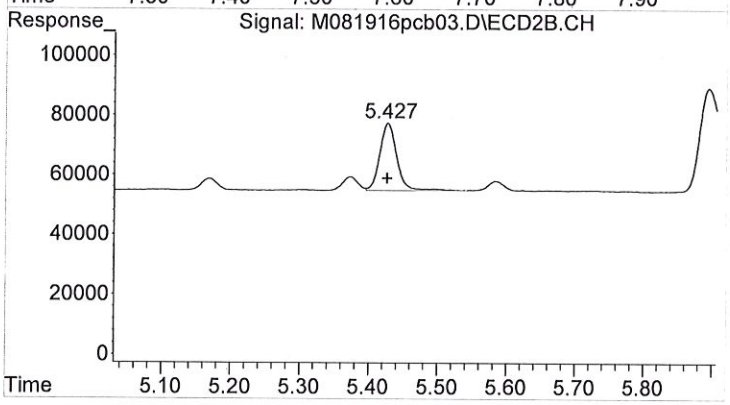
#1 tmx (1)

R.T.: 4.887 min
Delta R.T.: 0.000 min
Response: 99781
Conc: 2.02 pg/uL



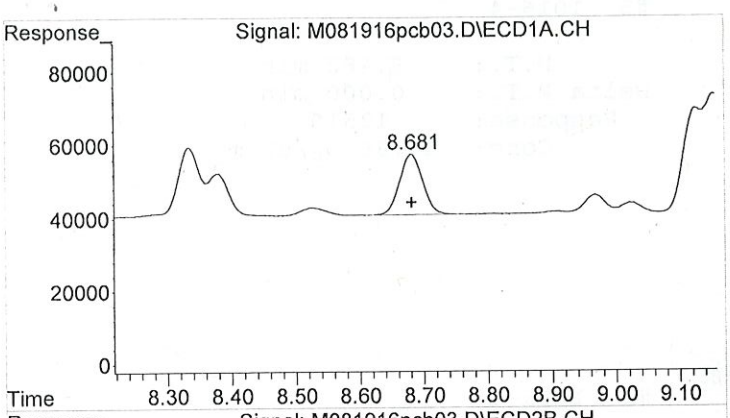
#2 1016 -1

R.T.: 7.615 min
Delta R.T.: 0.000 min
Response: 13683
Conc: 24.96 pg/uL



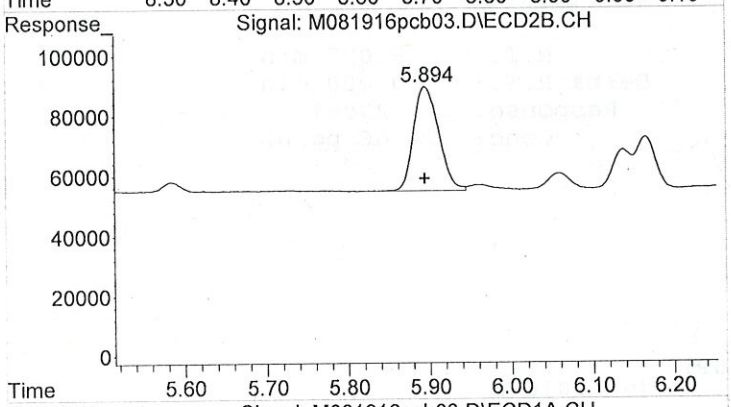
#2 1016 -1

R.T.: 5.427 min
Delta R.T.: 0.000 min
Response: 22496
Conc: 24.46 pg/uL



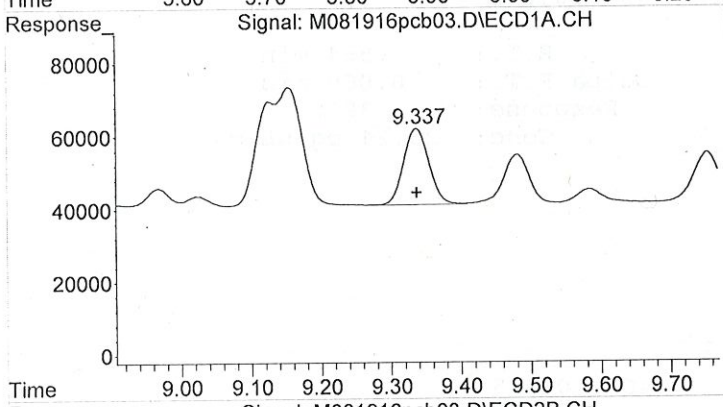
#3 1016-2

R.T.: 8.681 min
Delta R.T.: 0.000 min
Response: 16573
Conc: 25.09 pg/uL



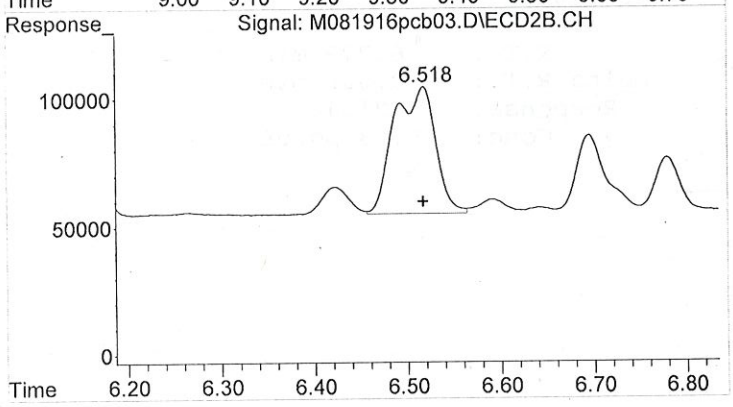
#3 1016-2

R.T.: 5.895 min
Delta R.T.: 0.000 min
Response: 34574
Conc: 24.32 pg/uL



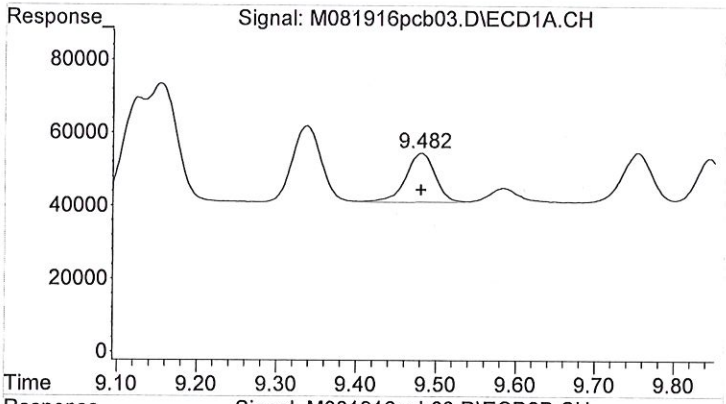
#4 1016-3

R.T.: 9.337 min
Delta R.T.: 0.000 min
Response: 20820
Conc: 25.11 pg/uL m



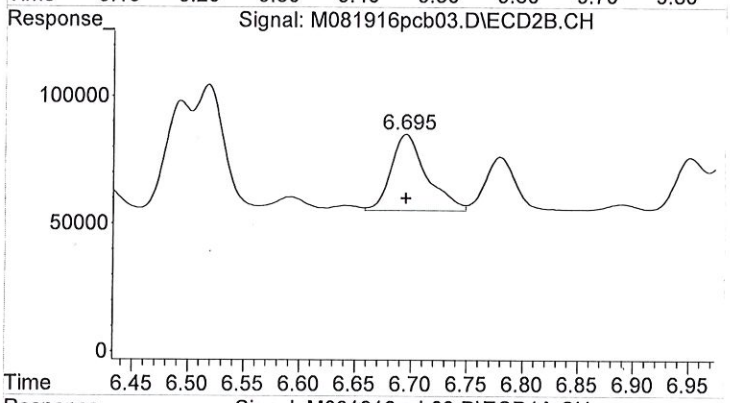
#4 1016-3

R.T.: 6.518 min
Delta R.T.: 0.000 min
Response: 49401
Conc: 24.98 pg/uL



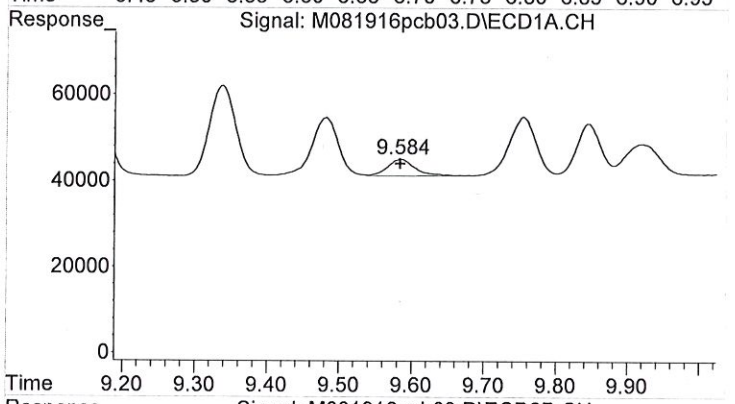
#5 1016-4

R.T.: 9.482 min
Delta R.T.: 0.000 min
Response: 13510
Conc: 24.85 pg/uL m



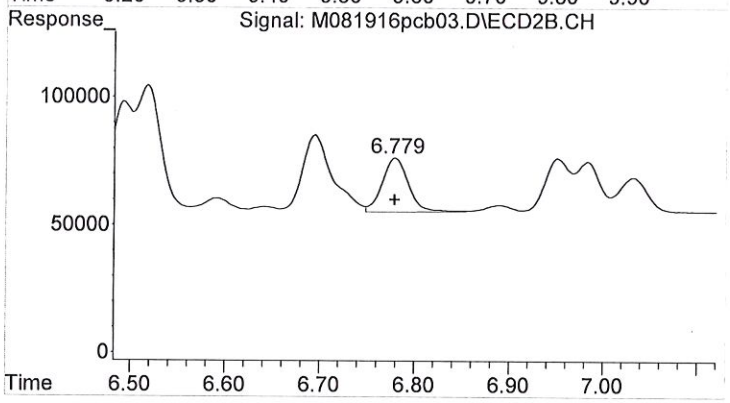
#5 1016-4

R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 29941
Conc: 24.66 pg/uL



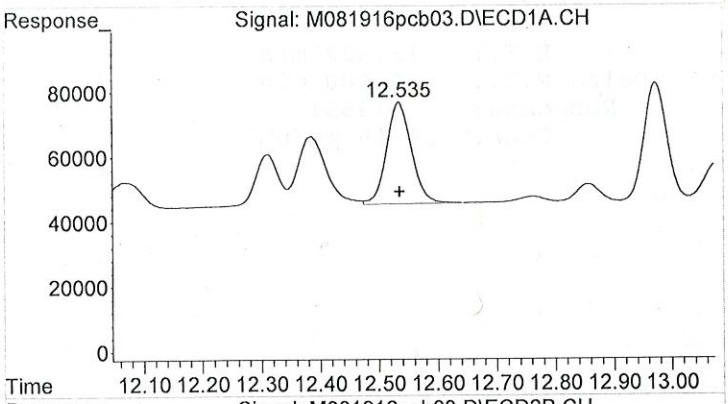
#6 1016-5

R.T.: 9.584 min
Delta R.T.: 0.000 min
Response: 3855
Conc: 25.24 pg/uL m



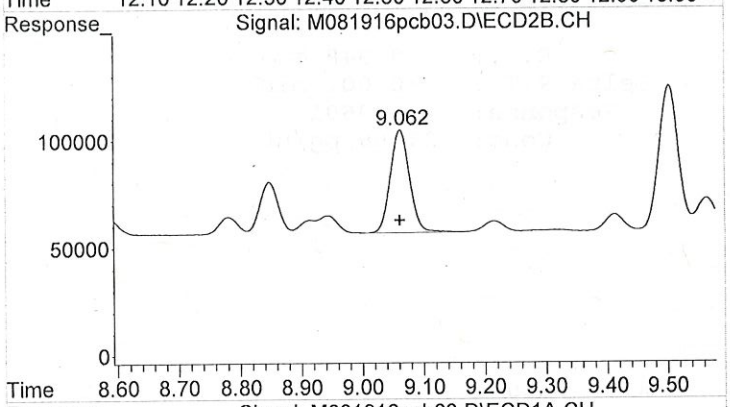
#6 1016-5

R.T.: 6.779 min
Delta R.T.: 0.000 min
Response: 21048
Conc: 25.03 pg/uL



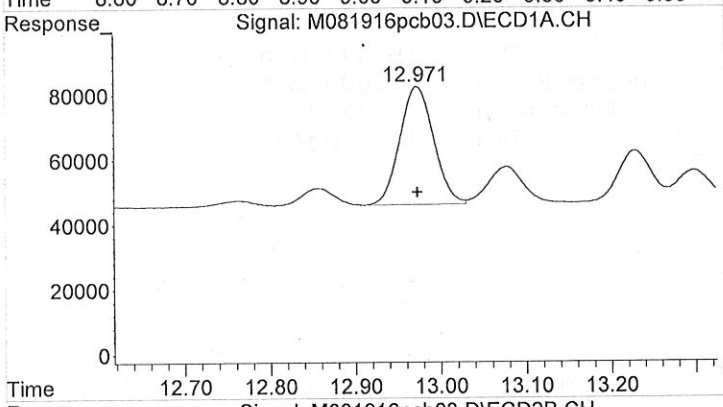
#7 1260-1

R.T.: 12.535 min
Delta R.T.: -0.001 min
Response: 31517
Conc: 24.27 pg/uL



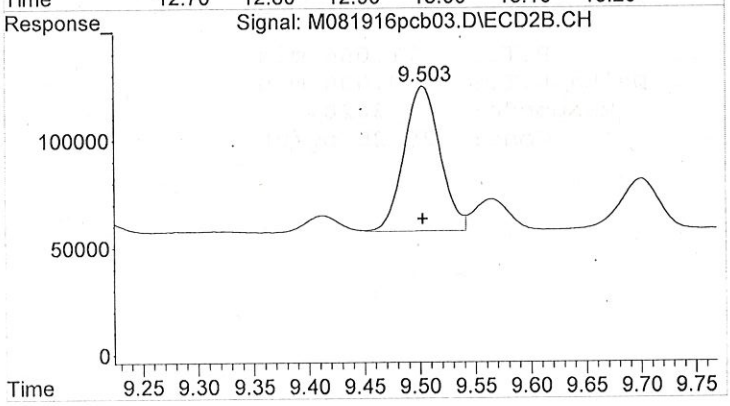
#7 1260-1

R.T.: 9.062 min
Delta R.T.: 0.000 min
Response: 47741
Conc: 24.79 pg/uL



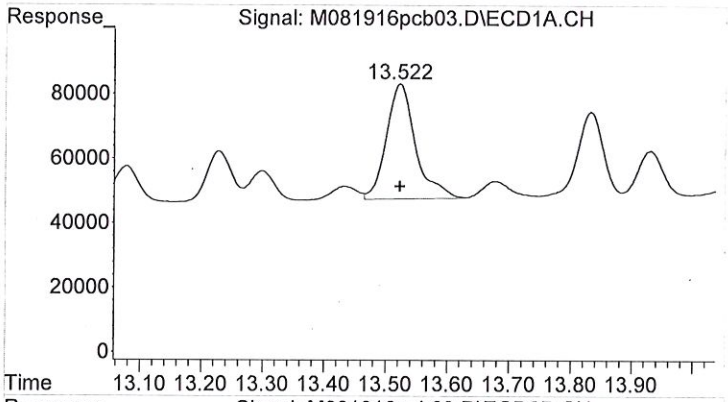
#8 1260-2

R.T.: 12.973 min
Delta R.T.: 0.000 min
Response: 36371
Conc: 24.36 pg/uL



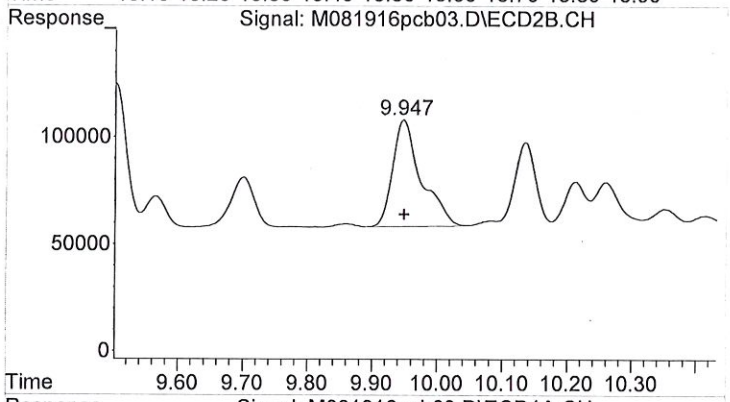
#8 1260-2

R.T.: 9.503 min
Delta R.T.: 0.000 min
Response: 67254
Conc: 24.80 pg/uL



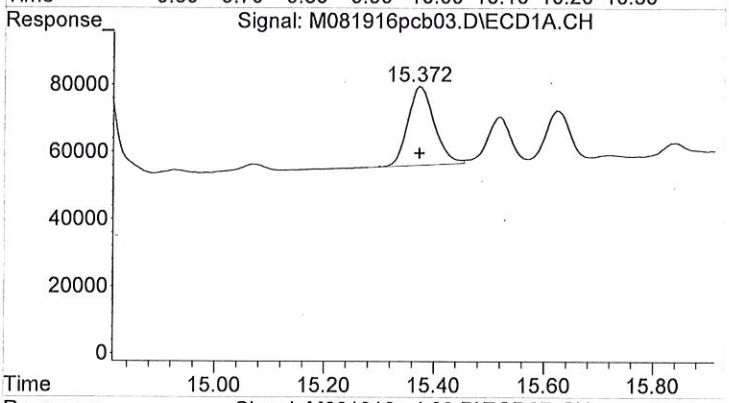
#9 1260-3

R.T.: 13.522 min
Delta R.T.: 0.000 min
Response: 35551
Conc: 24.45 pg/uL



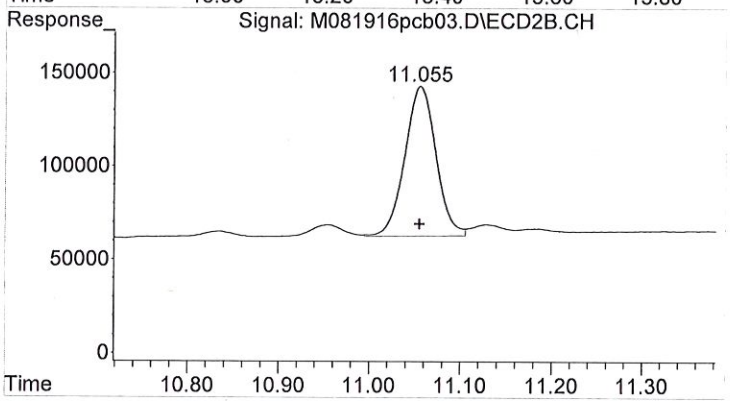
#9 1260-3

R.T.: 9.948 min
Delta R.T.: -0.001 min
Response: 49601
Conc: 24.99 pg/uL



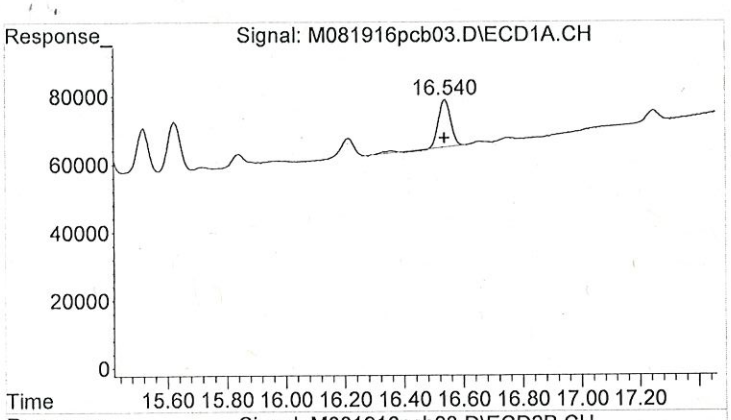
#10 1260-4

R.T.: 15.373 min
Delta R.T.: 0.000 min
Response: 23377
Conc: 24.32 pg/uL



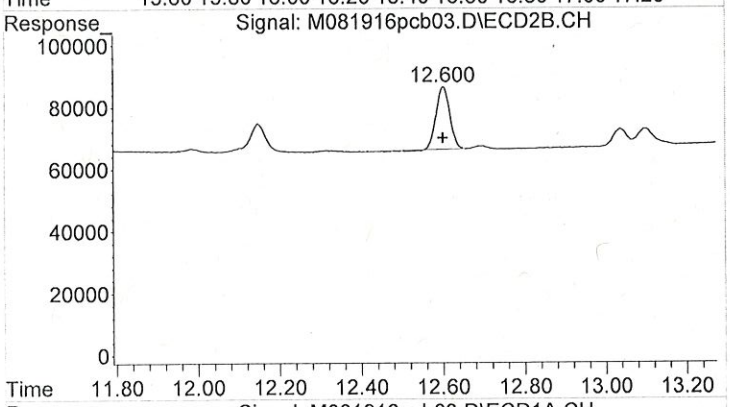
#10 1260-4

R.T.: 11.056 min
Delta R.T.: 0.000 min
Response: 80287
Conc: 25.25 pg/uL



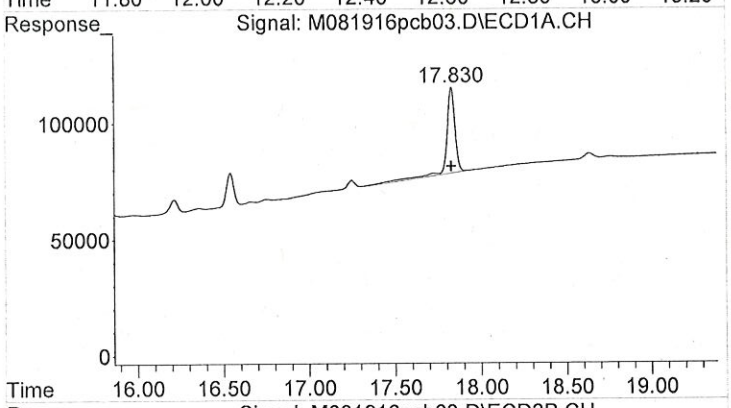
#11 1260-5

R.T.: 16.539 min
Delta R.T.: 0.000 min
Response: 13945
Conc: 24.54 pg/uL



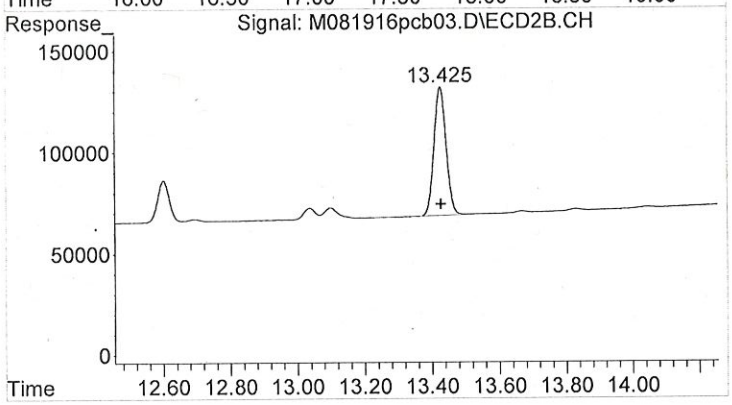
#11 1260-5

R.T.: 12.601 min
Delta R.T.: 0.000 min
Response: 20106
Conc: 25.11 pg/uL



#12 dcb

R.T.: 17.831 min
Delta R.T.: 0.000 min
Response: 36757
Conc: 2.44 pg/uL



#12 dcb

R.T.: 13.426 min
Delta R.T.: -0.002 min
Response: 63149
Conc: 2.46 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 10:04 am
Operator : DWOOD
Sample : 87PCB062716C
Misc : PCB 1016/1260 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:23 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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)	7.002	4.886	117698	188670	4.934	4.660
12)	S2 dcb	17.832	13.427	66474	119205	5.080	5.120
	Target Compounds						
2)	L1 1016 -1	7.614	5.427	24327	40241	50.552	51.130
3)	L1 1016-2	8.682	5.895	29000	63676	49.936	51.706
4)	L1 1016-3	9.337	6.518	36870	89569	49.786	49.757
5)	L1 1016-4	9.481	6.695	25031	54703	51.182	50.822
6)	L1 1016-5	9.584	6.778	7233	37795	49.014	49.654
	Sum 1016 -1			122461	285984	250.470	253.068
	Average 1016 -1					50.094	50.614
7)	L2 1260-1	12.536	9.062	54433	85984	51.235	50.356
8)	L2 1260-2	12.973	9.503	63929	122735	51.250	50.371
9)	L2 1260-3	13.524	9.948	63357	92472	51.335	50.101
10)	L2 1260-4	15.375	11.056	42402	147413	51.470	48.925
11)	L2 1260-5	16.539	12.602	25543	37589	50.730	49.237
	Sum 1260-1			249665	486193	256.020	248.988
	Average 1260-1					51.204	49.798

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

ww
7/19/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 10:04 am
Operator : DWOOD
Sample : 87PCB062716C
Misc : PCB 1016/1260 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 12:58:16 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Jul 20 09:11:32 2016
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)	7.002	4.886	117698	188670	4.825	4.571
12) S2 dcb	17.832	13.427	66474	119205	4.647	5.160
Target Compounds						
2) L1 1016 -1	7.614	5.427	24327	40241	43.462	50.065
3) L1 1016-2	8.682	5.895	29000	63676	43.208	60.471 #
4) L1 1016-3	9.337	6.518	36870	89569	42.035	48.427
5) L1 1016-4	9.481	6.695	25031	54703	43.589	48.898
6) L1 1016-5	9.584	6.778	7233	37795	41.178	48.077
Sum 1016 -1			122461	285984	213.473	255.938
Average 1016 -1					42.695	51.188
7) L2 1260-1	12.536	9.062	54433	85984	44.323	49.543
8) L2 1260-2	12.973	9.503	63929	122735	44.612	49.896
9) L2 1260-3	13.524	9.948	63357	92472	43.621	49.213
10) L2 1260-4	15.375	11.056	42402	147413	43.231	49.067
11) L2 1260-5	16.539	12.602	25543	37589	44.263	47.829
Sum 1260-1			249665	486193	220.049	245.549
Average 1260-1					44.010	49.110

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

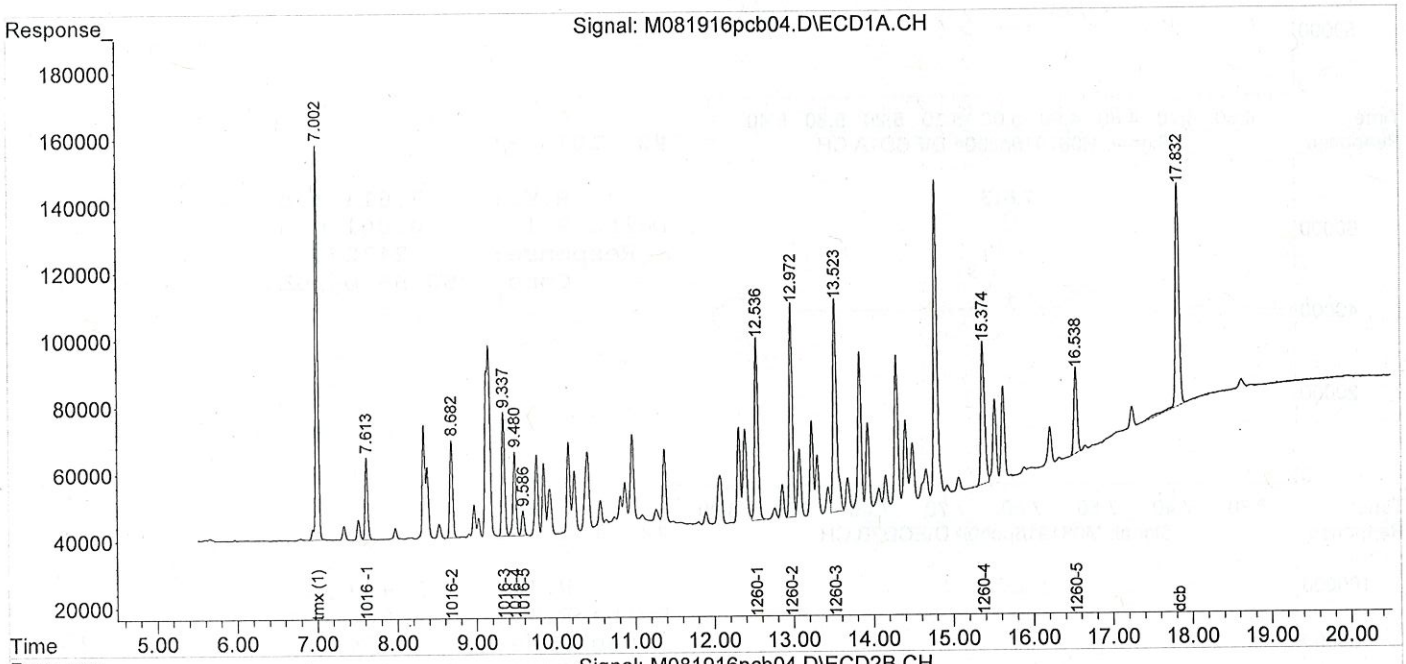
hw
8/19/16

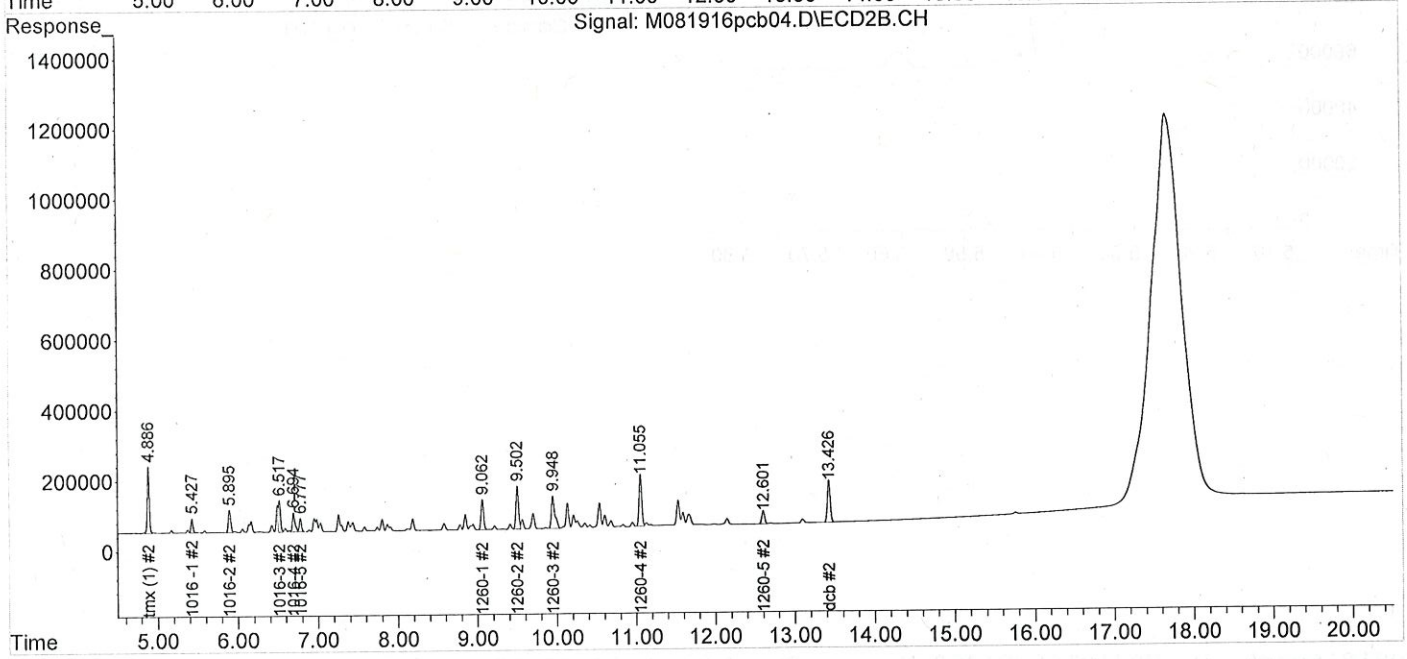
Quantitation Report (QT Reviewed)

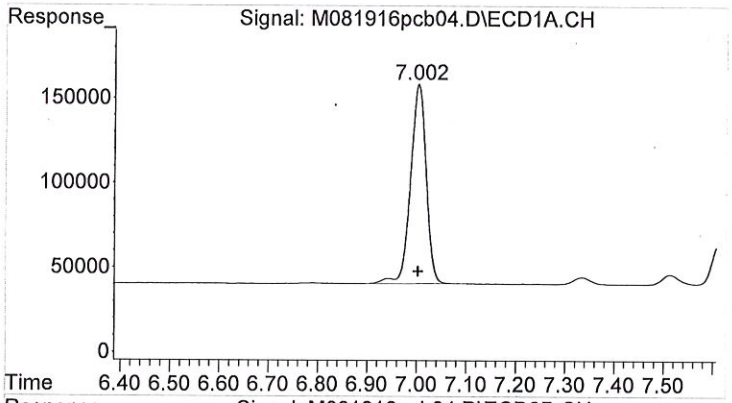
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 10:04 am
Operator : DWOOD
Sample : 87PCB062716C
Misc : PCB 1016/1260 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:23 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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

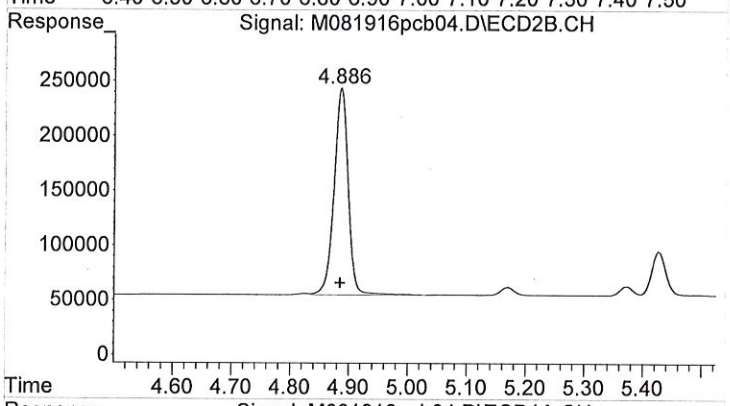






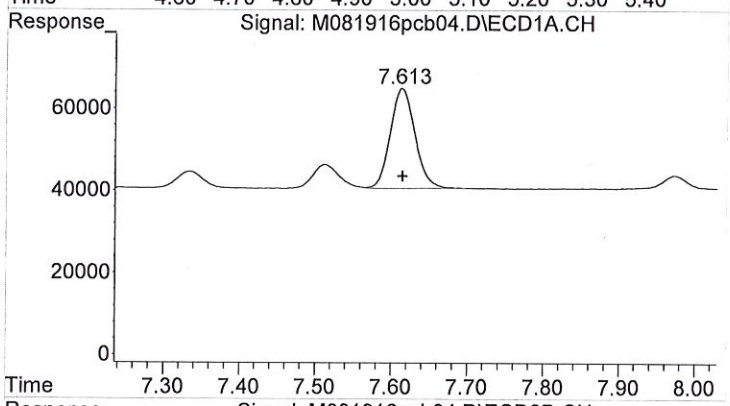
#1 tmx (1)

R.T.: 7.002 min
Delta R.T.: -0.001 min
Response: 117698
Conc: 4.93 pg/uL



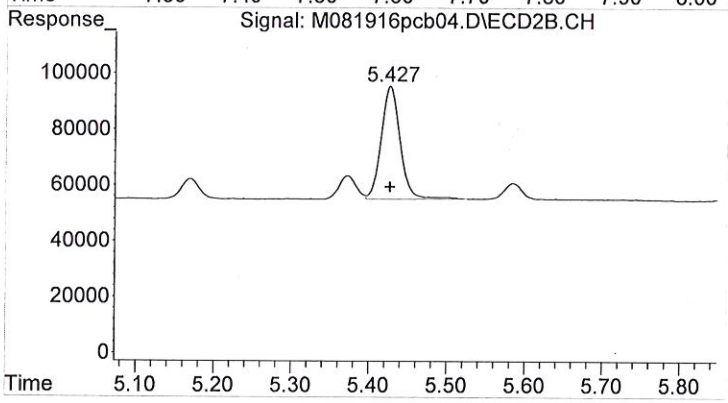
#1 tmx (1)

R.T.: 4.886 min
Delta R.T.: 0.000 min
Response: 188670
Conc: 4.66 pg/uL



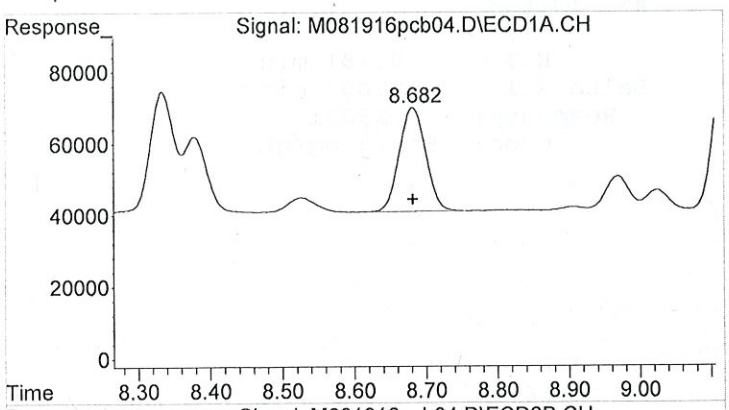
#2 1016 -1

R.T.: 7.614 min
Delta R.T.: -0.001 min
Response: 24327
Conc: 50.55 pg/uL



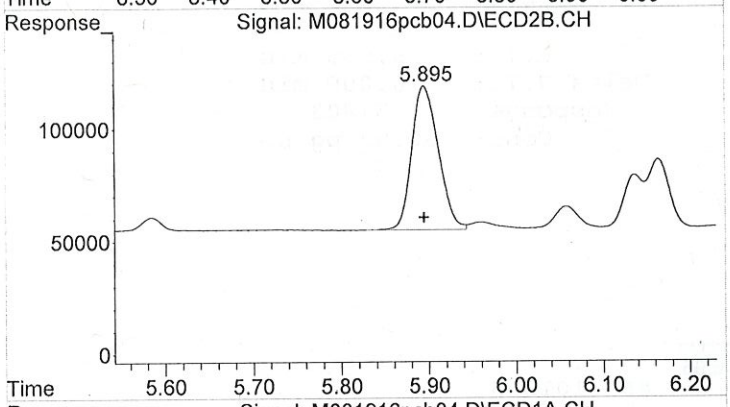
#2 1016 -1

R.T.: 5.427 min
Delta R.T.: 0.000 min
Response: 40241
Conc: 51.13 pg/uL



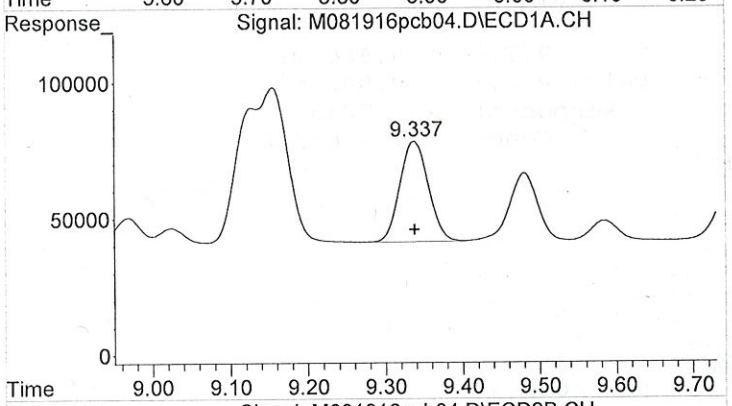
#3 1016-2

R.T.: 8.682 min
Delta R.T.: 0.000 min
Response: 29000
Conc: 49.94 pg/uL



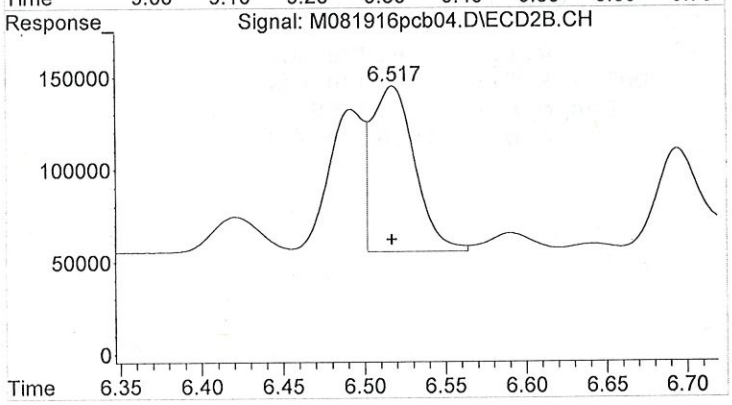
#3 1016-2

R.T.: 5.895 min
Delta R.T.: 0.000 min
Response: 63676
Conc: 51.71 pg/uL



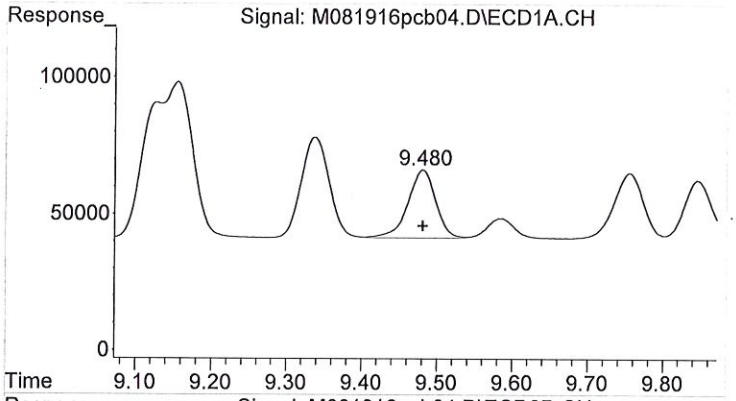
#4 1016-3

R.T.: 9.337 min
Delta R.T.: 0.000 min
Response: 36870
Conc: 49.79 pg/uL



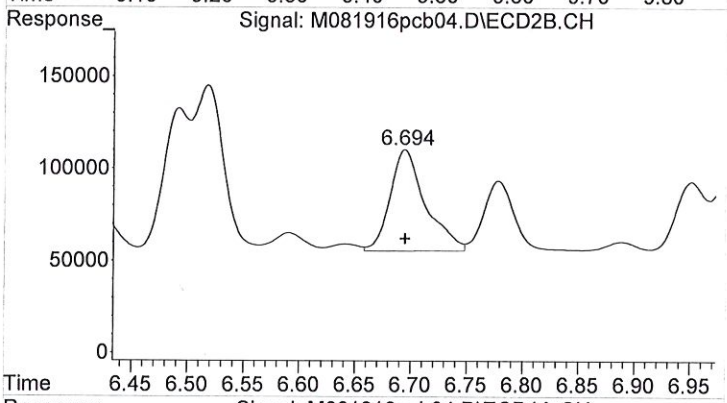
#4 1016-3

R.T.: 6.518 min
Delta R.T.: 0.000 min
Response: 89569
Conc: 49.76 pg/uL



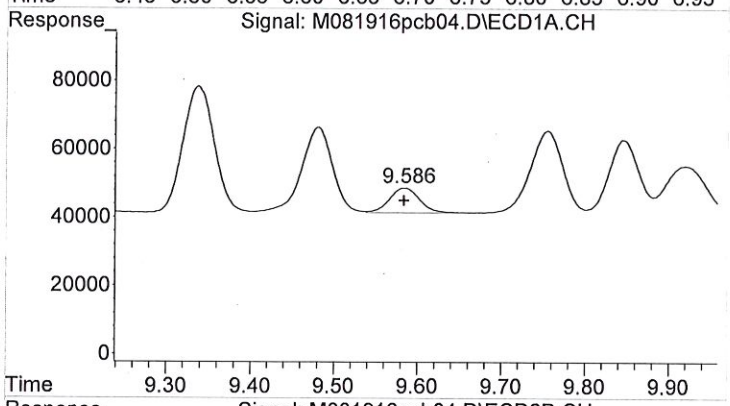
#5 1016-4

R.T.: 9.481 min
Delta R.T.: 0.000 min
Response: 25031
Conc: 51.18 pg/uL



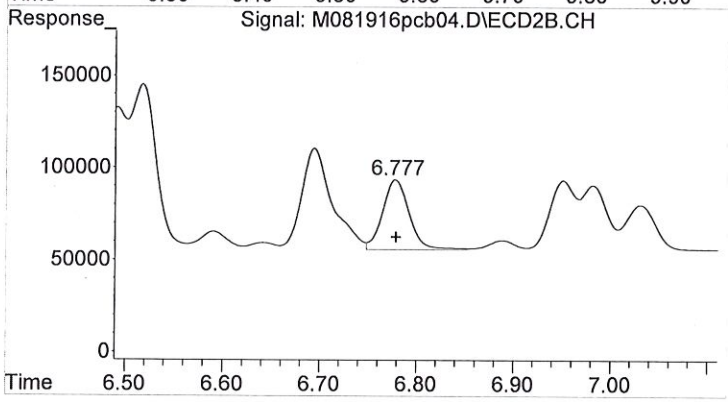
#5 1016-4

R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 54703
Conc: 50.82 pg/uL



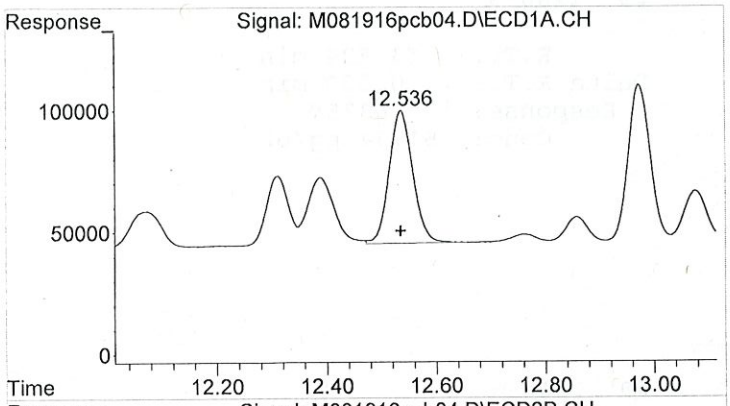
#6 1016-5

R.T.: 9.584 min
Delta R.T.: 0.000 min
Response: 7233
Conc: 49.01 pg/uL



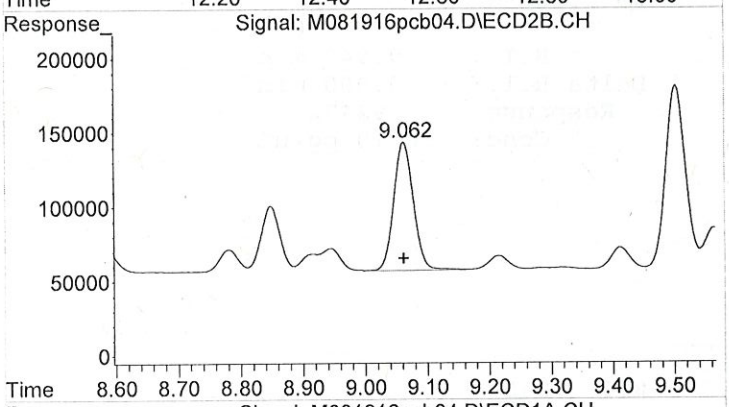
#6 1016-5

R.T.: 6.778 min
Delta R.T.: 0.000 min
Response: 37795
Conc: 49.65 pg/uL



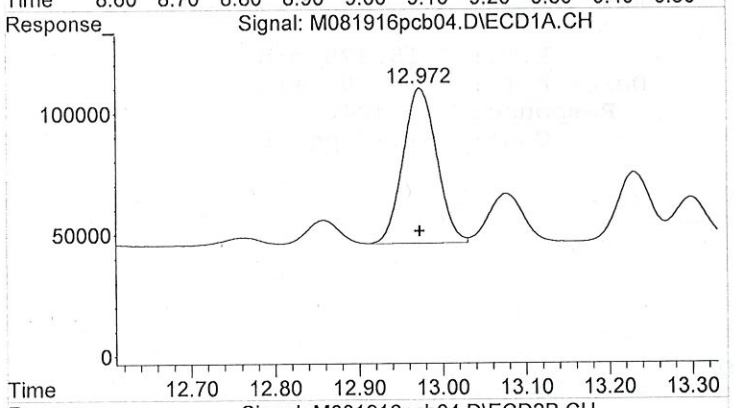
#7 1260-1

R.T.: 12.536 min
Delta R.T.: 0.000 min
Response: 54433
Conc: 51.23 pg/uL



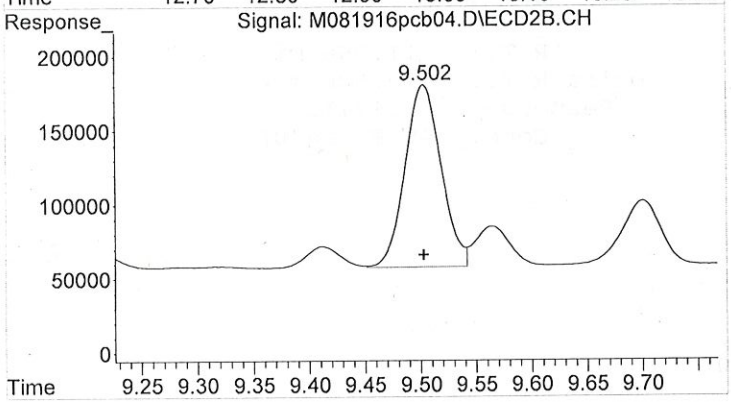
#7 1260-1

R.T.: 9.062 min
Delta R.T.: 0.000 min
Response: 85984
Conc: 50.36 pg/uL



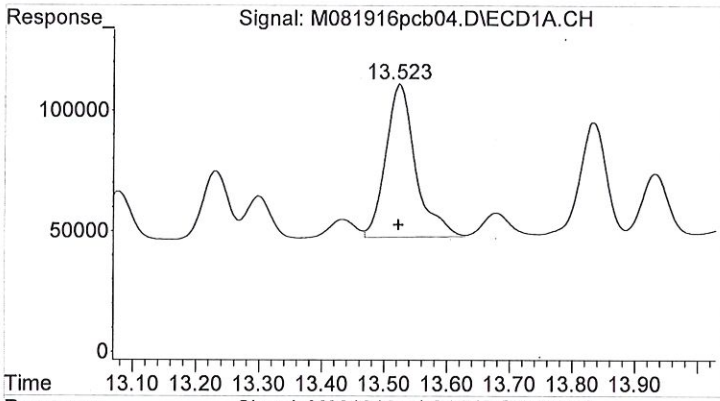
#8 1260-2

R.T.: 12.973 min
Delta R.T.: 0.000 min
Response: 63929
Conc: 51.25 pg/uL



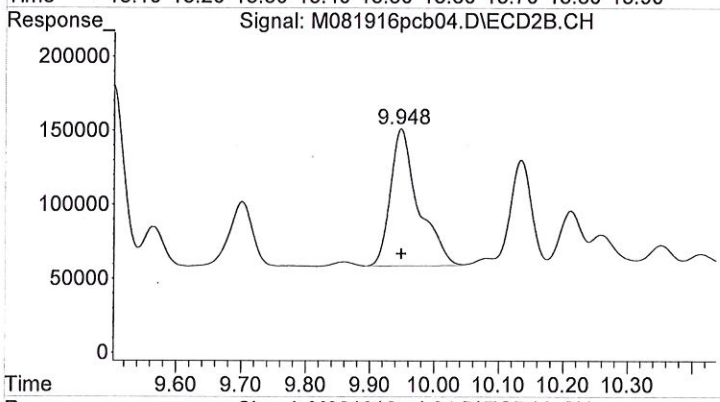
#8 1260-2

R.T.: 9.503 min
Delta R.T.: 0.000 min
Response: 122735
Conc: 50.37 pg/uL



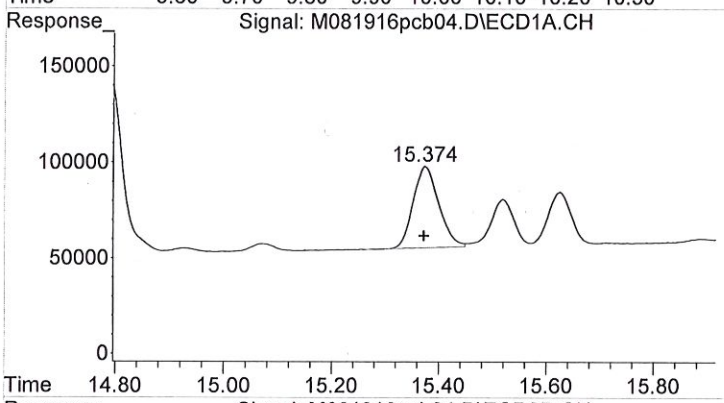
#9 1260-3

R.T.: 13.524 min
Delta R.T.: 0.000 min
Response: 63357
Conc: 51.34 pg/uL



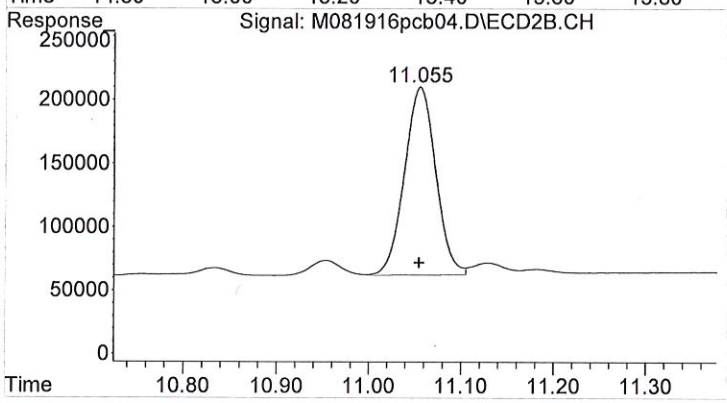
#9 1260-3

R.T.: 9.948 min
Delta R.T.: 0.000 min
Response: 92472
Conc: 50.10 pg/uL



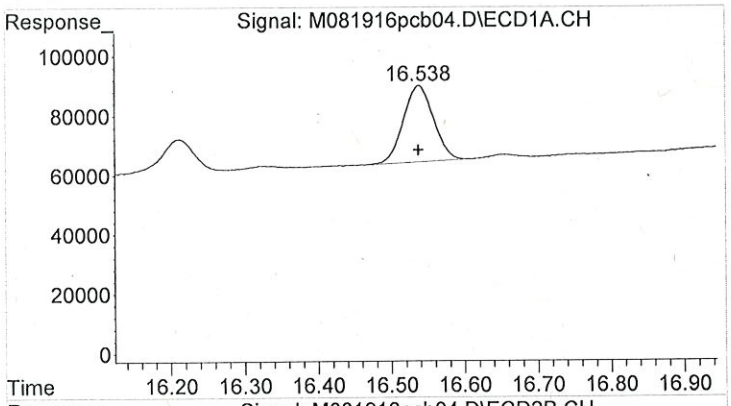
#10 1260-4

R.T.: 15.375 min
Delta R.T.: 0.002 min
Response: 42402
Conc: 51.47 pg/uL



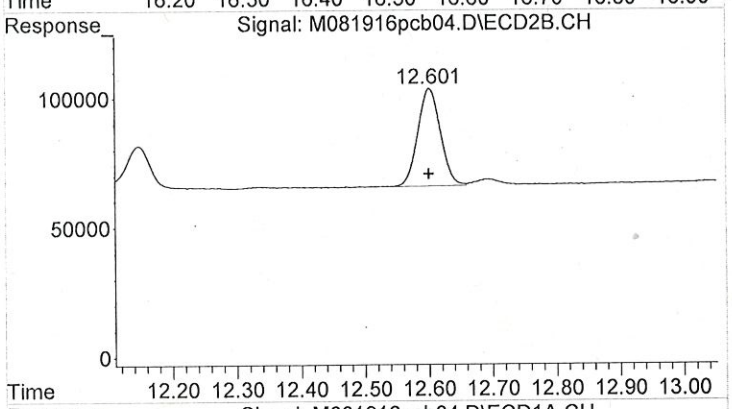
#10 1260-4

R.T.: 11.056 min
Delta R.T.: 0.000 min
Response: 147413
Conc: 48.92 pg/uL



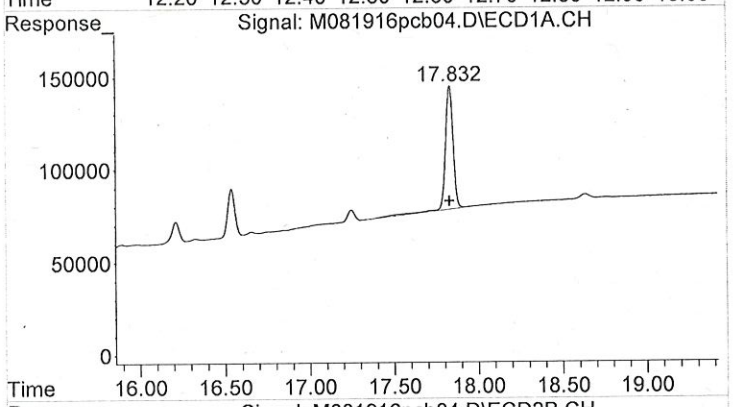
#11 1260-5

R.T.: 16.539 min
Delta R.T.: 0.000 min
Response: 25543
Conc: 50.73 pg/uL



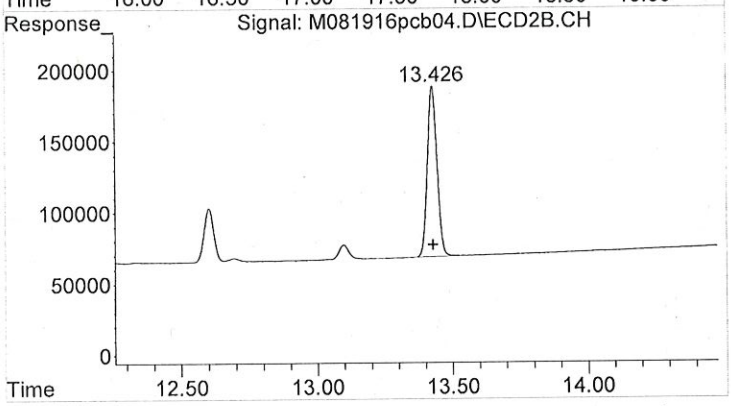
#11 1260-5

R.T.: 12.602 min
Delta R.T.: 0.001 min
Response: 37589
Conc: 49.24 pg/uL



#12 dcb

R.T.: 17.832 min
Delta R.T.: 0.002 min
Response: 66474
Conc: 5.08 pg/uL



#12 dcb

R.T.: 13.427 min
Delta R.T.: -0.001 min
Response: 119205
Conc: 5.12 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 10:29 am
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 5 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:30 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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)	7.003	4.886	224897	366265	9.976	9.931
12) S2 dcb	17.830	13.428	125105	215466	10.296	9.684
Target Compounds						
2) L1 1016 -1	7.615	5.427	43426	73417	97.297	100.992
3) L1 1016-2	8.682	5.895	52451	115915	97.615	100.858
4) L1 1016-3	9.338	6.517	67412	166740	97.532	97.359
5) L1 1016-4	9.481	6.695	44591	100245	96.636	98.936
6) L1 1016-5	9.584	6.779	14142	70255	98.789	97.375
Sum 1016 -1			222022	526572	487.869	495.519
Average 1016 -1					97.574	99.104
7) L2 1260-1	12.536	9.062	99752	157803	104.562	98.370
8) L2 1260-2	12.973	9.503	116347	226388	102.387	98.152
9) L2 1260-3	13.523	9.949	114085	172003	100.385	96.679
10) L2 1260-4	15.373	11.055	78219	281850	102.576	96.348
11) L2 1260-5	16.538	12.601	47920	73231	101.259	98.431
Sum 1260-1			456324	911274	511.169	487.981
Average 1260-1					102.234	97.596

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

ww
8/19/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 10:29 am
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 5 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 12:58:21 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Jul 20 09:11:32 2016
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)	7.003	4.886	224897	366265	9.796	10.023
12) S2 dcb	17.830	13.428	125105	215466	9.256	9.785
Target Compounds						
2) L1 1016 -1	7.615	5.427	43426	73417	84.156	99.460
3) L1 1016-2	8.682	5.895	52451	115915	84.717	116.111 #
4) L1 1016-3	9.338	6.517	67412	166740	83.604	94.875
5) L1 1016-4	9.481	6.695	44591	100245	83.789	95.530
6) L1 1016-5	9.584	6.779	14142	70255	85.697	94.204
Sum 1016 -1			222022	526572	421.963	500.180
Average 1016 -1					84.393	100.036
7) L2 1260-1	12.536	9.062	99752	157803	90.530	97.311
8) L2 1260-2	12.973	9.503	116347	226388	89.901	97.338
9) L2 1260-3	13.523	9.949	114085	172003	86.512	95.224
10) L2 1260-4	15.373	11.055	78219	281850	91.619	97.046
11) L2 1260-5	16.538	12.601	47920	73231	88.355	96.930
Sum 1260-1			456324	911274	446.918	483.849
Average 1260-1					89.384	96.770

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

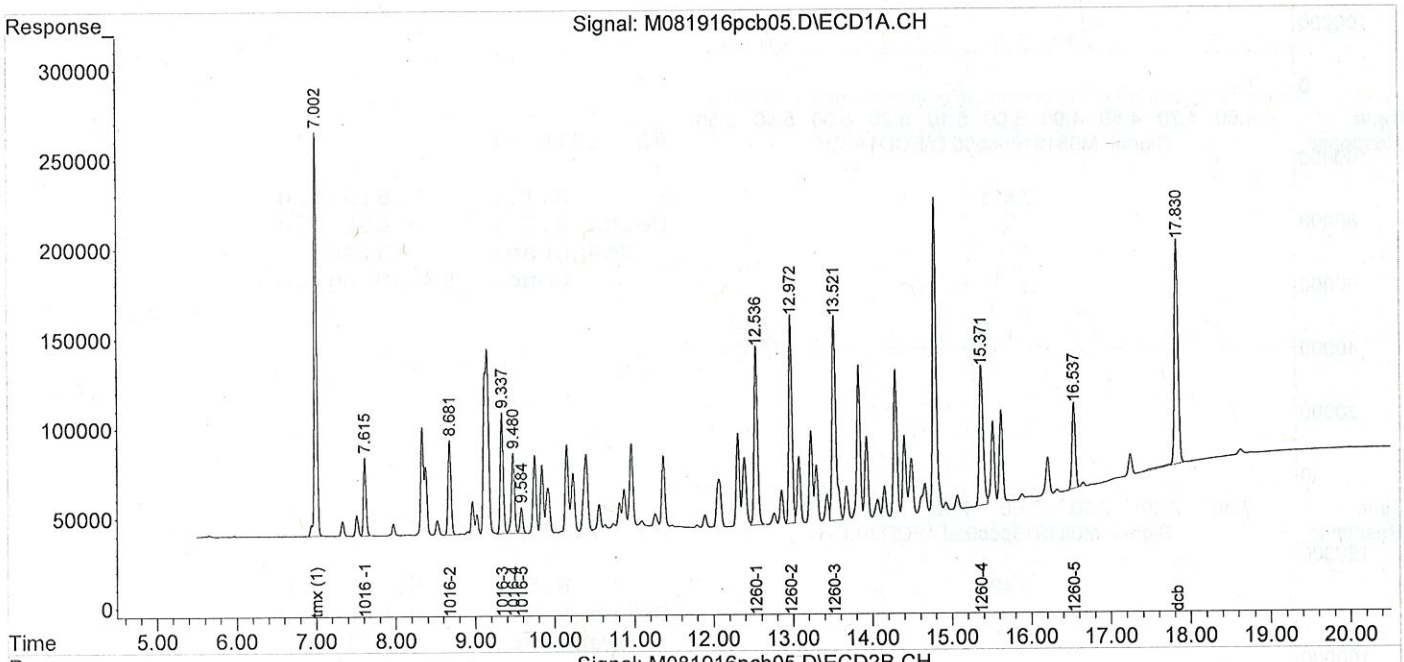
hw
8/19/16

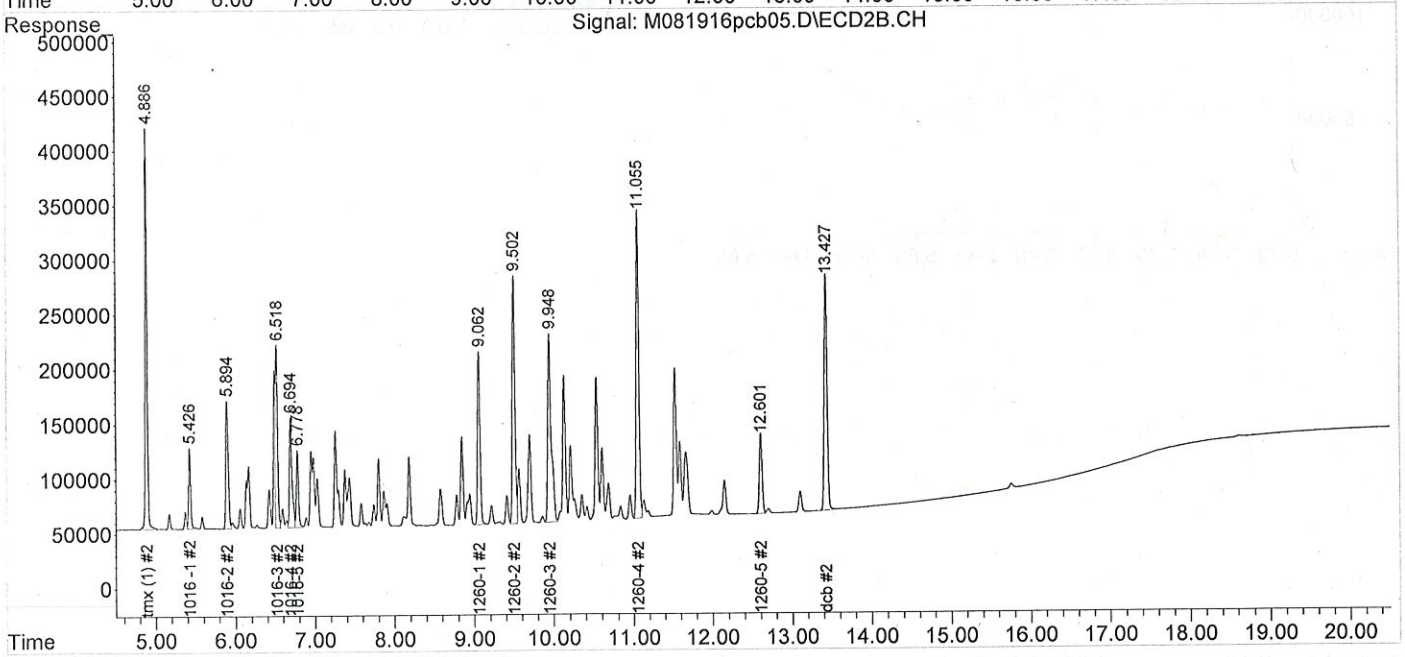
Quantitation Report (QT Reviewed)

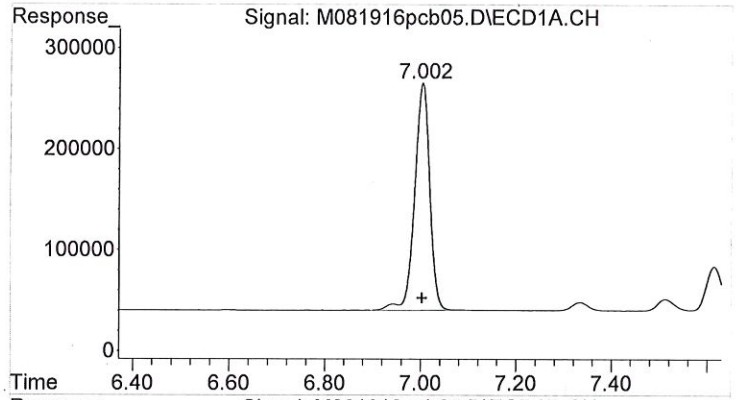
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 10:29 am
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 5 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:30 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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

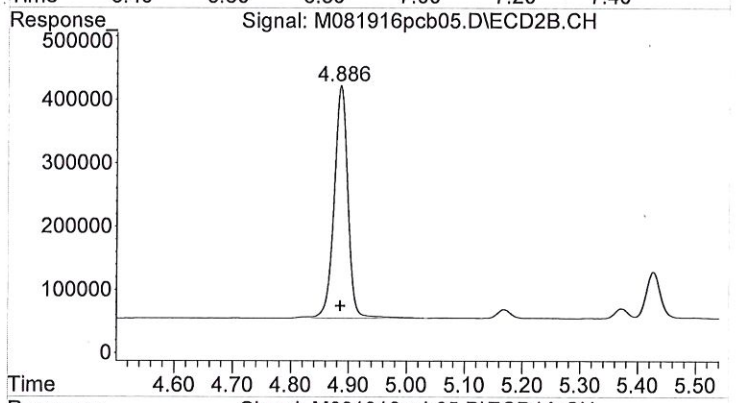






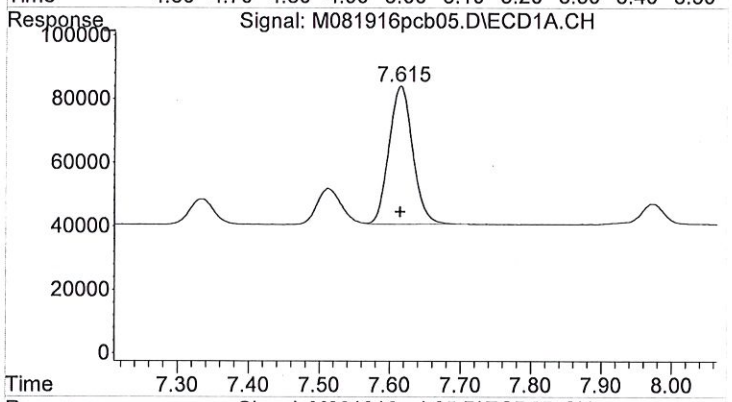
#1 tmx (1)

R.T.: 7.003 min
Delta R.T.: 0.000 min
Response: 224897
Conc: 9.98 pg/uL



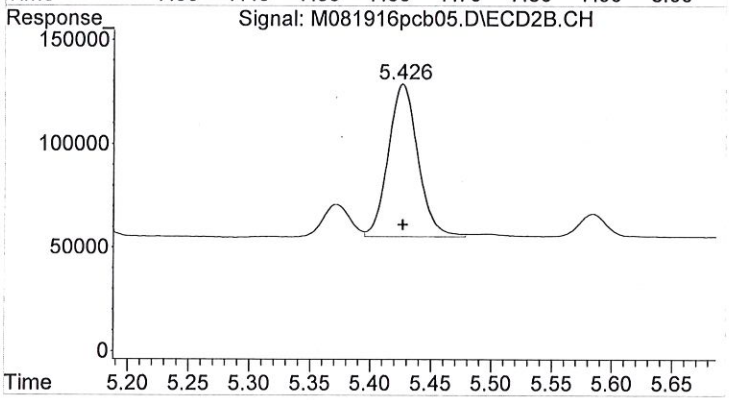
#1 tmx (1)

R.T.: 4.886 min
Delta R.T.: 0.000 min
Response: 366265
Conc: 9.93 pg/uL



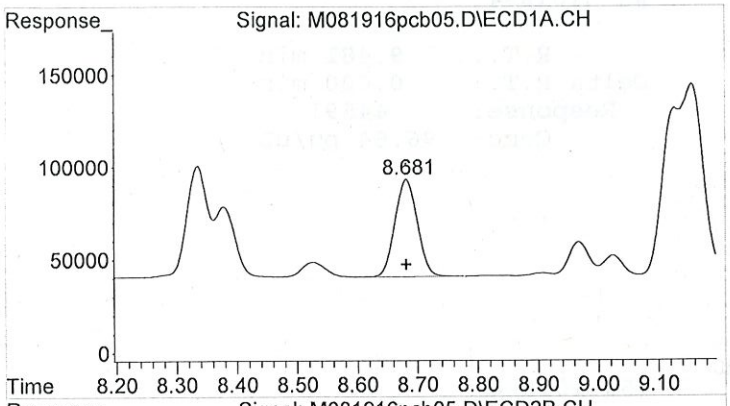
#2 1016 -1

R.T.: 7.615 min
Delta R.T.: 0.000 min
Response: 43426
Conc: 97.30 pg/uL



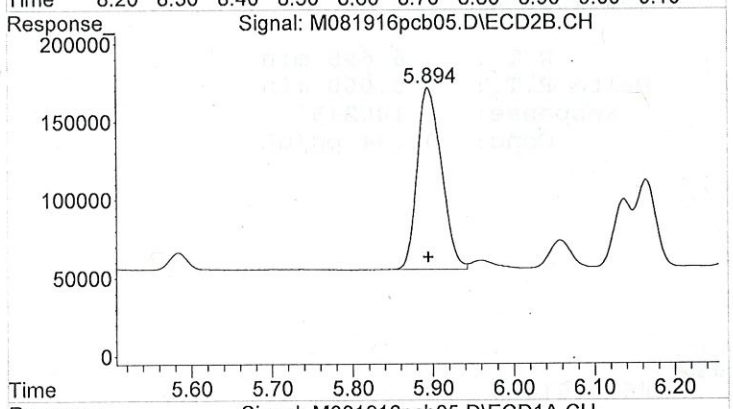
#2 1016 -1

R.T.: 5.427 min
Delta R.T.: 0.000 min
Response: 73417
Conc: 100.99 pg/uL



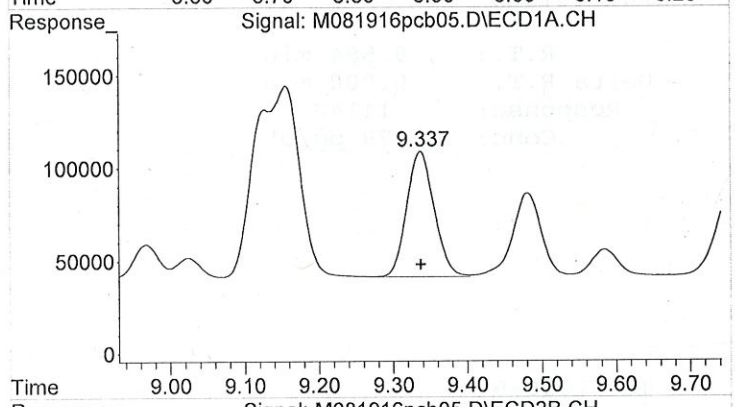
#3 1016-2

R.T.: 8.682 min
Delta R.T.: 0.000 min
Response: 52451
Conc: 97.61 pg/uL



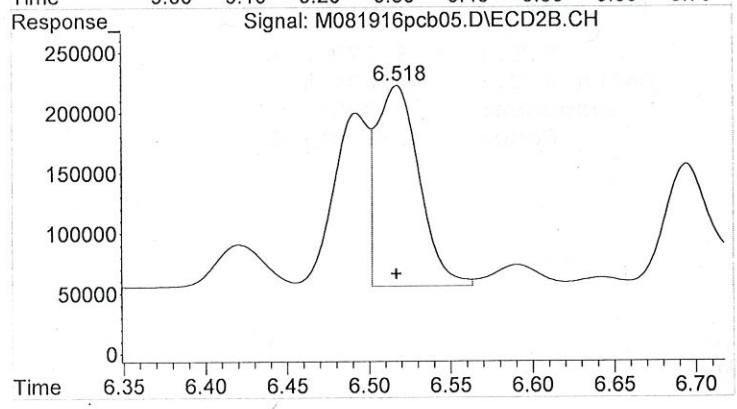
#3 1016-2

R.T.: 5.895 min
Delta R.T.: 0.000 min
Response: 115915
Conc: 100.86 pg/uL



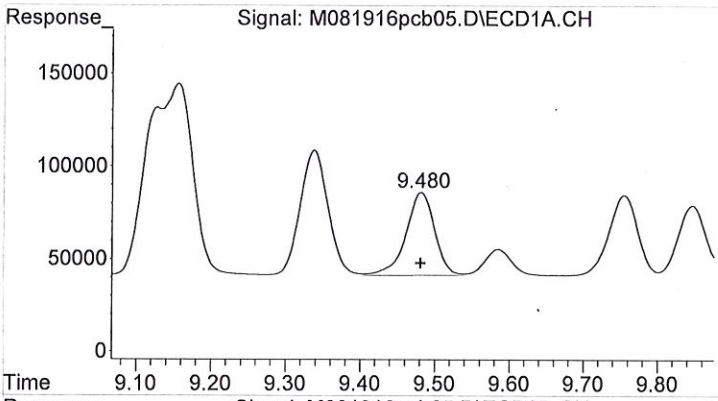
#4 1016-3

R.T.: 9.338 min
Delta R.T.: 0.000 min
Response: 67412
Conc: 97.53 pg/uL



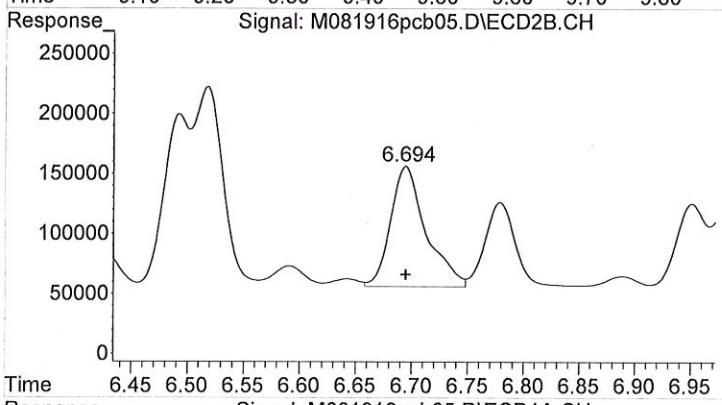
#4 1016-3

R.T.: 6.517 min
Delta R.T.: 0.000 min
Response: 166740
Conc: 97.36 pg/uL



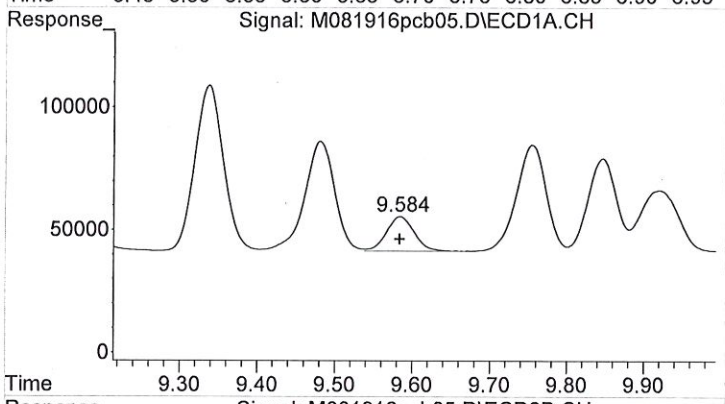
#5 1016-4

R.T.: 9.481 min
Delta R.T.: 0.000 min
Response: 44591
Conc: 96.64 pg/uL



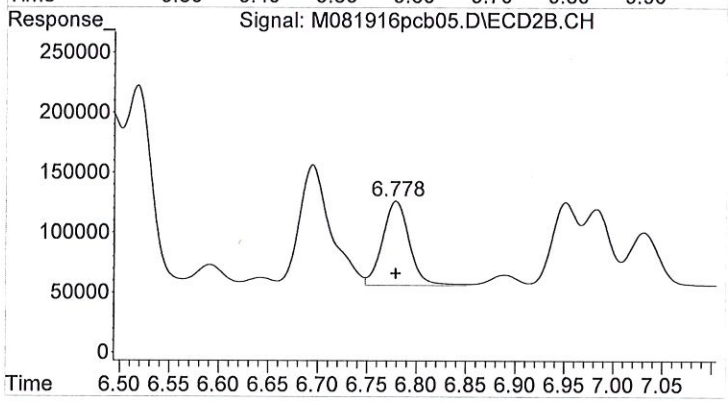
#5 1016-4

R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 100245
Conc: 98.94 pg/uL



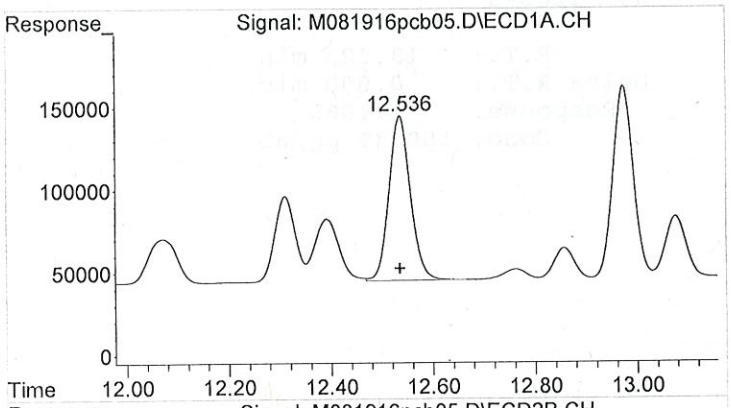
#6 1016-5

R.T.: 9.584 min
Delta R.T.: 0.000 min
Response: 14142
Conc: 98.79 pg/uL



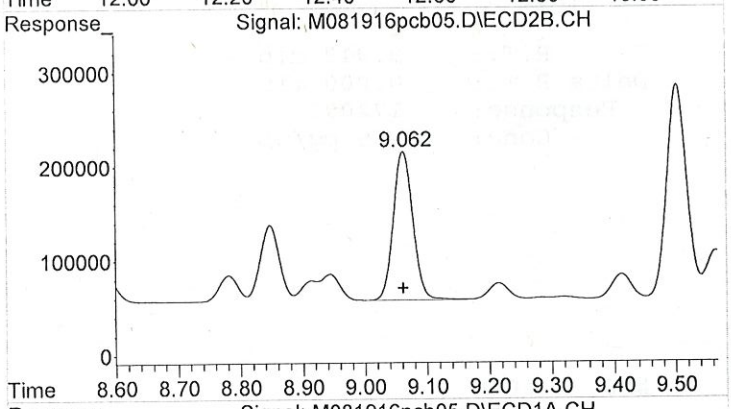
#6 1016-5

R.T.: 6.779 min
Delta R.T.: 0.000 min
Response: 70255
Conc: 97.38 pg/uL



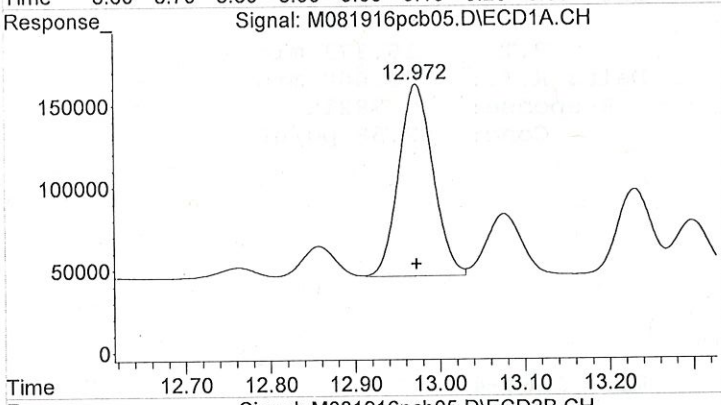
#7 1260-1

R.T.: 12.536 min
Delta R.T.: 0.000 min
Response: 99752
Conc: 104.56 pg/uL



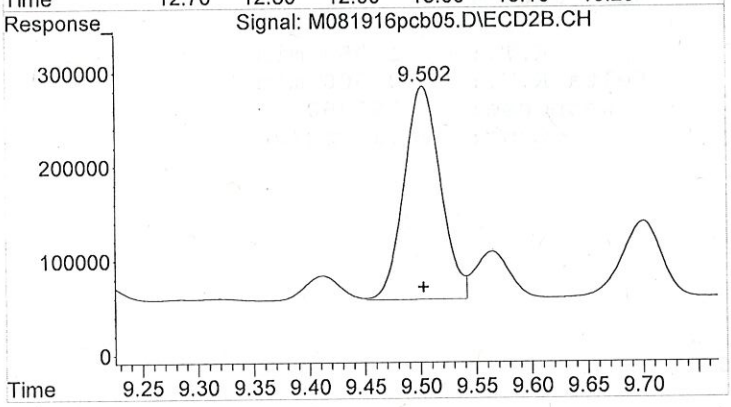
#7 1260-1

R.T.: 9.062 min
Delta R.T.: 0.000 min
Response: 157803
Conc: 98.37 pg/uL



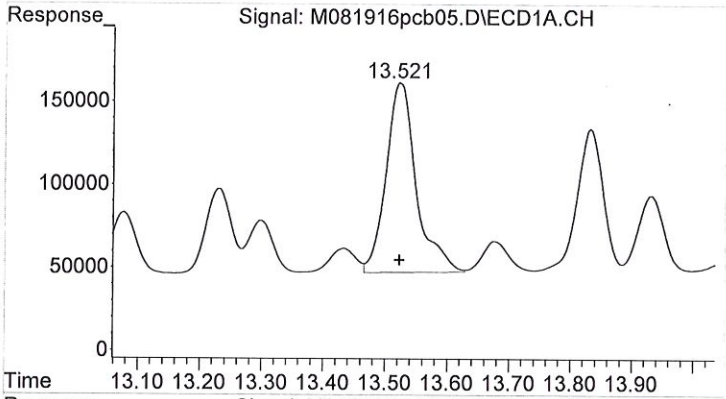
#8 1260-2

R.T.: 12.973 min
Delta R.T.: 0.000 min
Response: 116347
Conc: 102.39 pg/uL



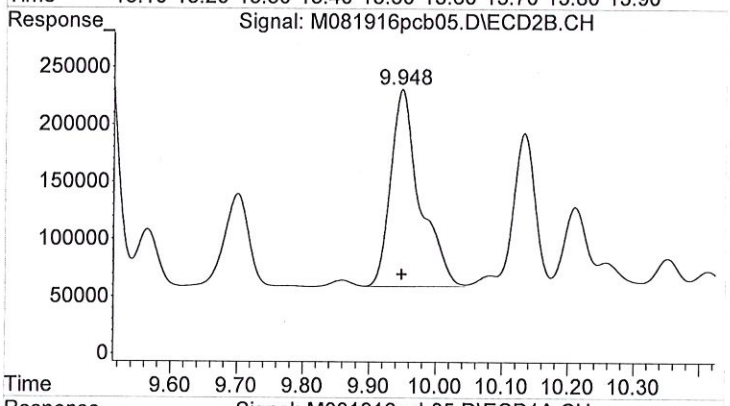
#8 1260-2

R.T.: 9.503 min
Delta R.T.: 0.000 min
Response: 226388
Conc: 98.15 pg/uL



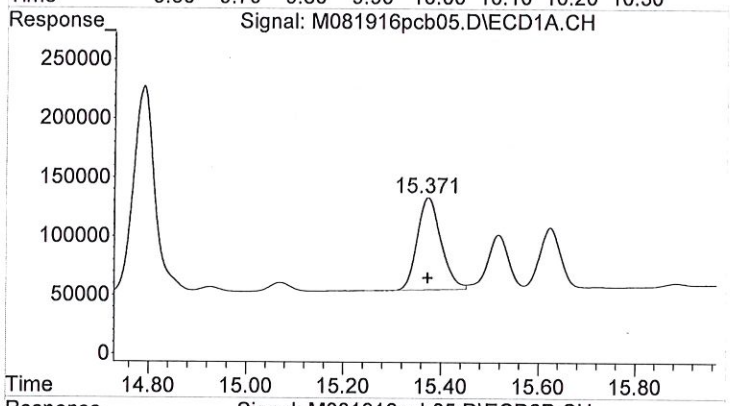
#9 1260-3

R.T.: 13.523 min
Delta R.T.: 0.000 min
Response: 114085
Conc: 100.39 pg/uL



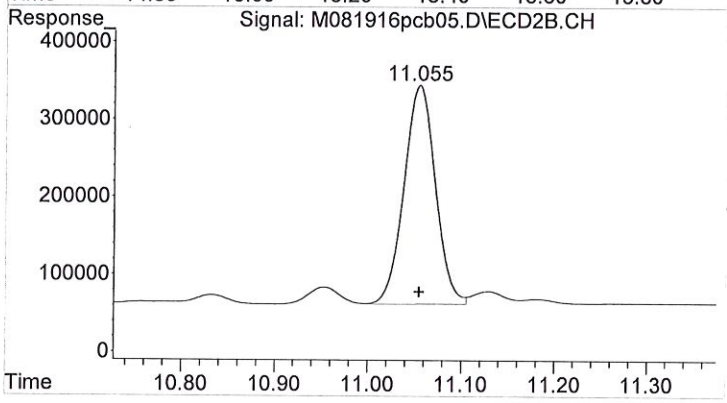
#9 1260-3

R.T.: 9.949 min
Delta R.T.: 0.000 min
Response: 172003
Conc: 96.68 pg/uL



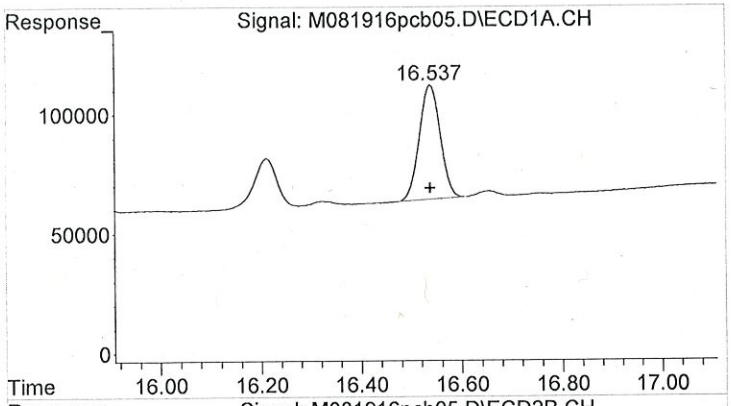
#10 1260-4

R.T.: 15.373 min
Delta R.T.: 0.000 min
Response: 78219
Conc: 102.58 pg/uL



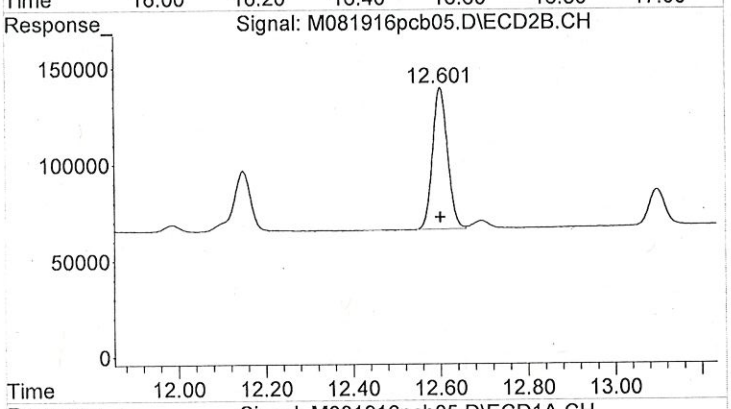
#10 1260-4

R.T.: 11.055 min
Delta R.T.: 0.000 min
Response: 281850
Conc: 96.35 pg/uL



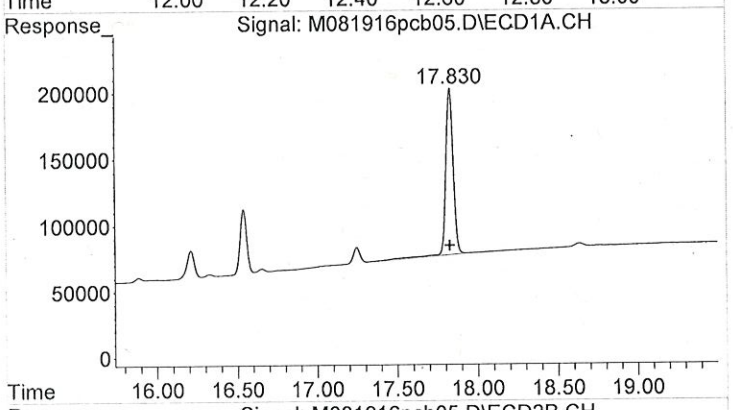
#11 1260-5

R.T.: 16.538 min
Delta R.T.: 0.000 min
Response: 47920
Conc: 101.26 pg/uL



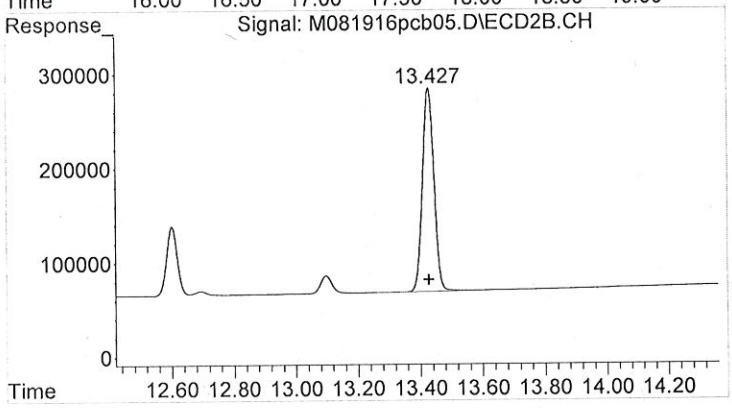
#11 1260-5

R.T.: 12.601 min
Delta R.T.: 0.000 min
Response: 73231
Conc: 98.43 pg/uL



#12 dcb

R.T.: 17.830 min
Delta R.T.: 0.000 min
Response: 125105
Conc: 10.30 pg/uL



#12 dcb

R.T.: 13.428 min
Delta R.T.: 0.000 min
Response: 215466
Conc: 9.68 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 10:53 am
Operator : DWOOD
Sample : 87PCB062716E
Misc : PCB 1016/1260 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 6 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:37 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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)	7.003	4.887	611908	1040854	28.177	29.954
12) S2 dcb	17.831	13.426	325196	602785	28.096	28.050
Target Compounds						
2) L1 1016 -1	7.615	5.427	107073	191453	261.617	278.395
3) L1 1016-2	8.683	5.895	128316	304574	259.829	278.367
4) L1 1016-3	9.338	6.518	168461	463419	263.888	280.362
5) L1 1016-4	9.481	6.695	111668	266541	260.508	274.622
6) L1 1016-5	9.585	6.779	35347	192043	262.737	276.423
Sum 1016 -1			550865	1418031	1308.579	1388.169
Average 1016 -1					261.716	277.634
7) L2 1260-1	12.536	9.062	244513	428090	274.904	279.072
8) L2 1260-2	12.973	9.503	295434	620412	277.096	279.788
9) L2 1260-3	13.524	9.949	299026	469793	279.205	271.084
10) L2 1260-4	15.374	11.056	199203	800536	275.202	279.319
11) L2 1260-5	16.539	12.601	126849	199640	279.490	272.908
Sum 1260-1			1165026	2518471	1385.898	1382.171
Average 1260-1					277.180	276.434

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

ww 8/19/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 10:53 am
Operator : DWOOD
Sample : 87PCB062716E
Misc : PCB 1016/1260 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 6 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 12:58:25 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Jul 20 09:11:32 2016
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)	7.003	4.887	611908	1040854	27.742	30.730
12) S2 dcb	17.831	13.426	325196	602785	24.984	28.397
Target Compounds						
2) L1 1016 -1	7.615	5.427	107073	191453	227.068	275.201
3) L1 1016-2	8.683	5.895	128316	304574	225.491	317.053 #
4) L1 1016-3	9.338	6.518	168461	463419	227.839	273.444
5) L1 1016-4	9.481	6.695	111668	266541	227.437	265.806
6) L1 1016-5	9.585	6.779	35347	192043	230.014	267.267
Sum 1016 -1			550865	1418031	1137.849	1398.770
Average 1016 -1					227.570	279.754
7) L2 1260-1	12.536	9.062	244513	428090	238.132	277.082
8) L2 1260-2	12.973	9.503	295434	620412	244.633	277.684
9) L2 1260-3	13.524	9.949	299026	469793	242.880	267.504
10) L2 1260-4	15.374	11.056	199203	800536	255.068	282.160
11) L2 1260-5	16.539	12.601	126849	199640	243.877	271.076
Sum 1260-1			1165026	2518471	1224.590	1375.506
Average 1260-1					244.918	275.101

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

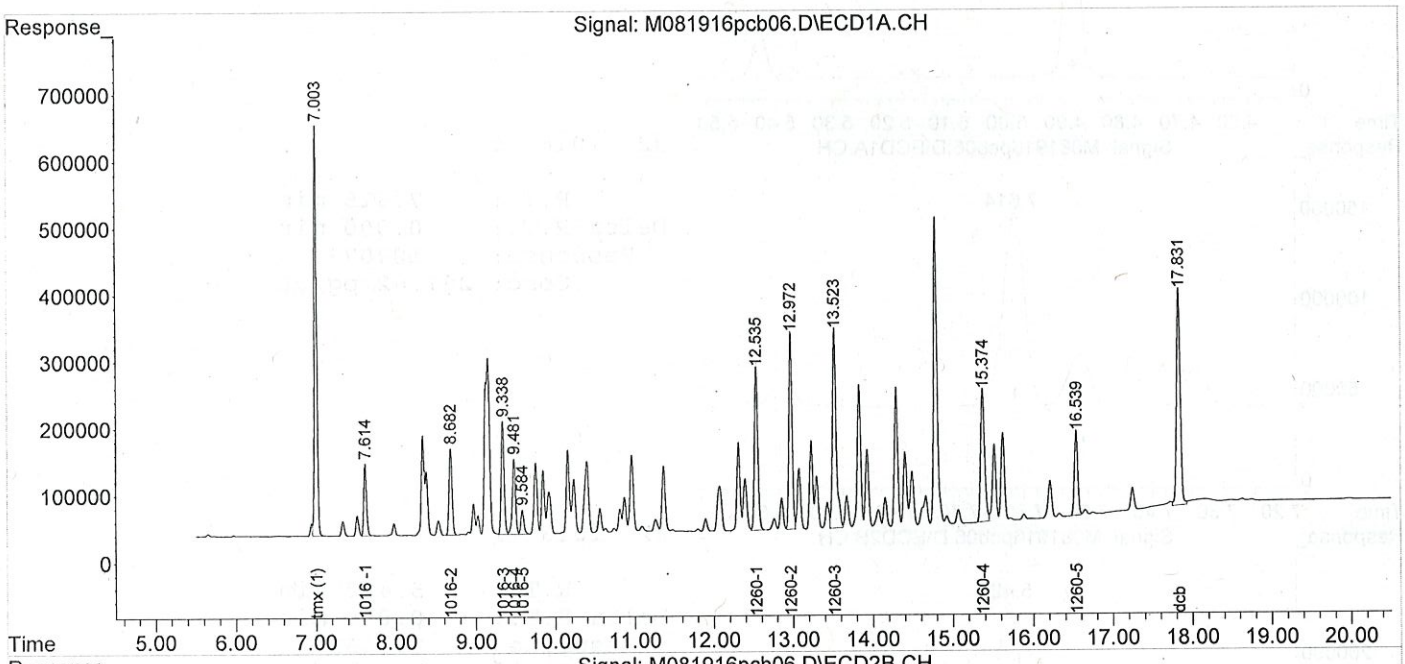
ww
8/19/16

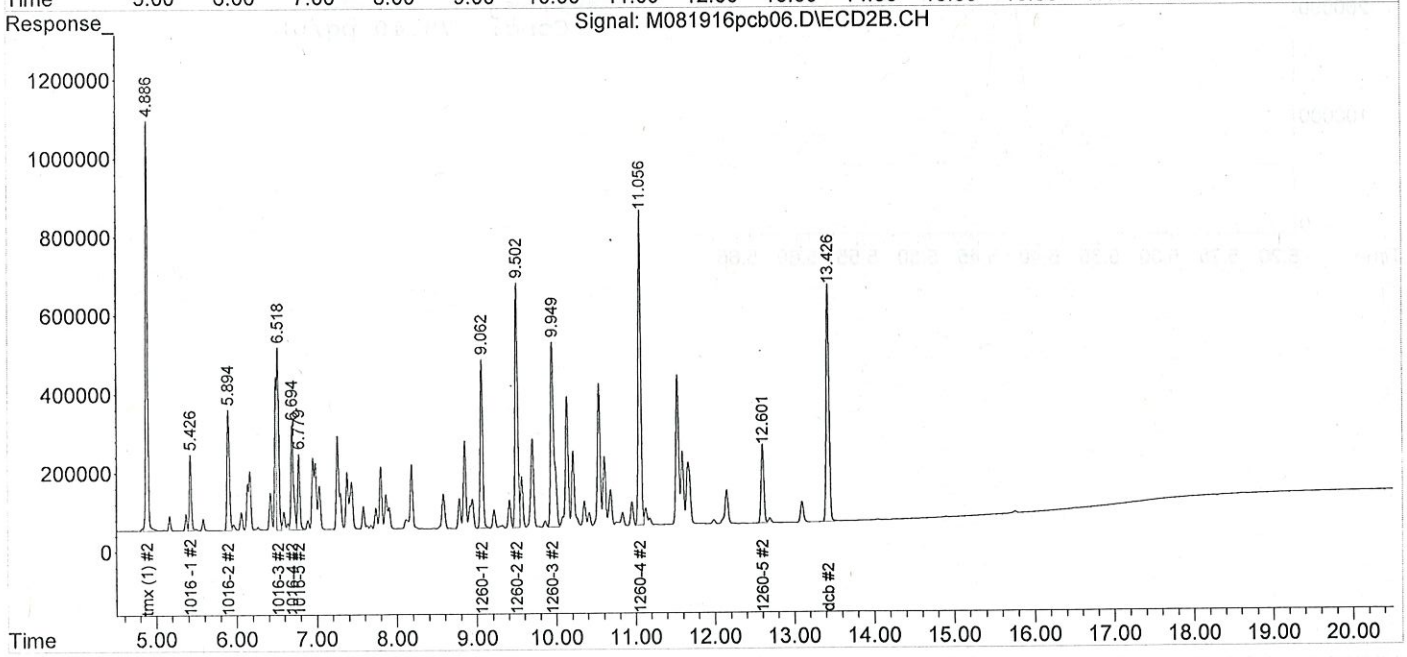
Quantitation Report (QT Reviewed)

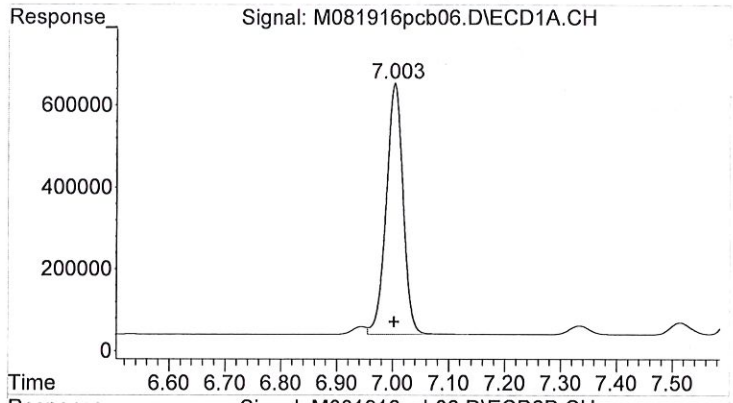
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 10:53 am
Operator : DWOOD
Sample : 87PCB062716E
Misc : PCB 1016/1260 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 6 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:37 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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

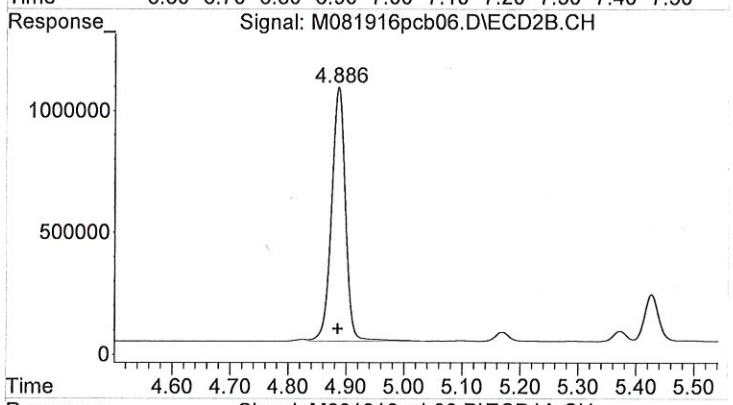






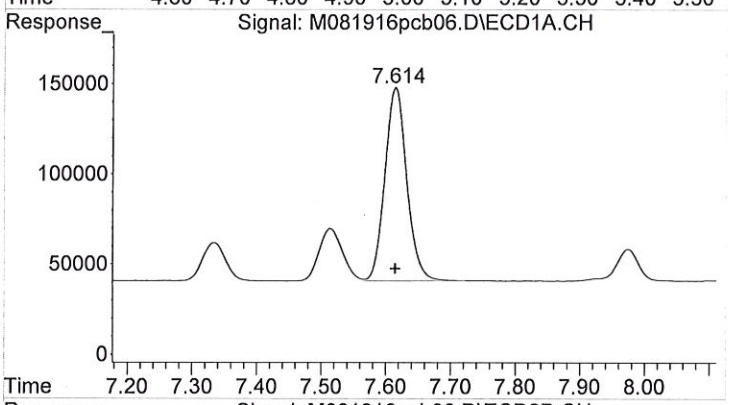
#1 tmx (1)

R.T.: 7.003 min
Delta R.T.: 0.000 min
Response: 611908
Conc: 28.18 pg/uL



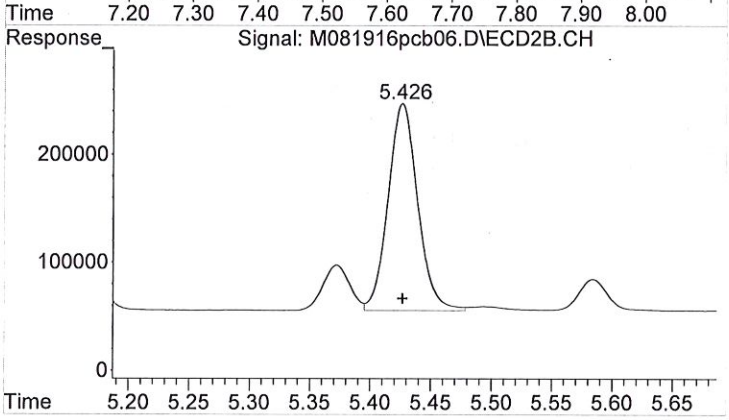
#1 tmx (1)

R.T.: 4.887 min
Delta R.T.: 0.000 min
Response: 1040854
Conc: 29.95 pg/uL



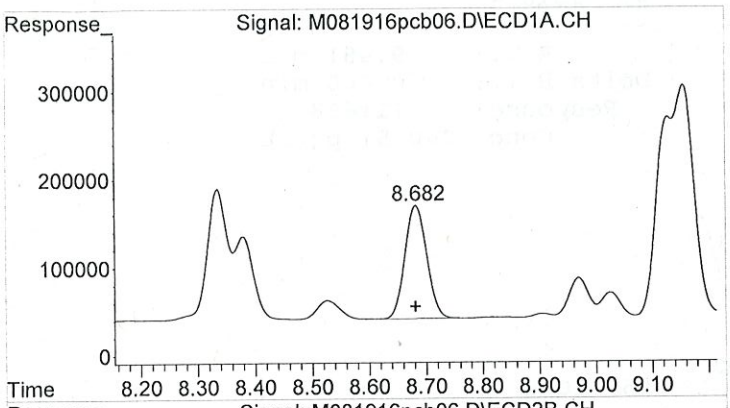
#2 1016 -1

R.T.: 7.615 min
Delta R.T.: 0.000 min
Response: 107073
Conc: 261.62 pg/uL



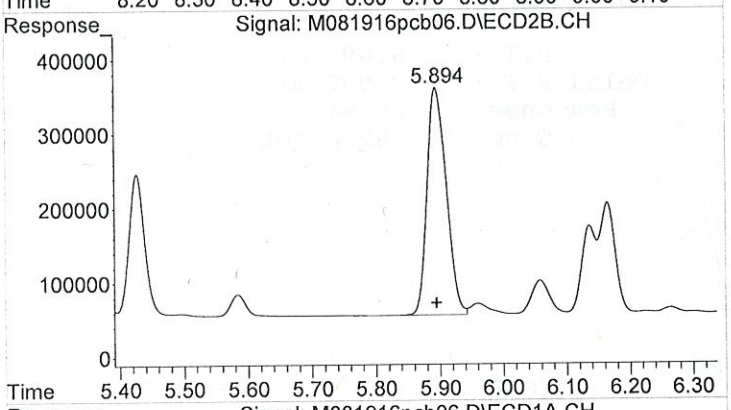
#2 1016 -1

R.T.: 5.427 min
Delta R.T.: 0.000 min
Response: 191453
Conc: 278.40 pg/uL



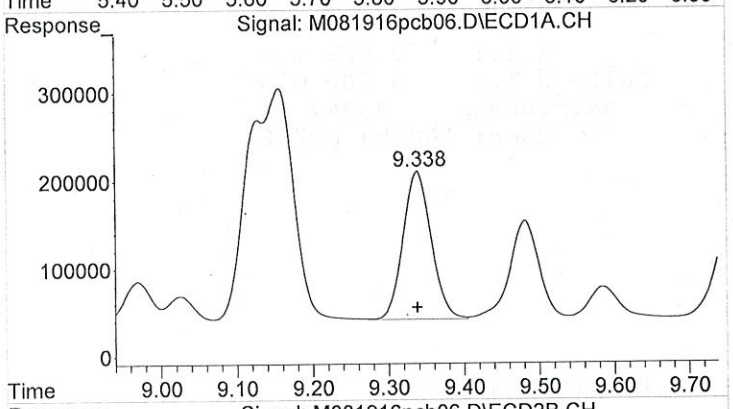
#3 1016-2

R.T.: 8.683 min
Delta R.T.: 0.000 min
Response: 128316
Conc: 259.83 pg/uL



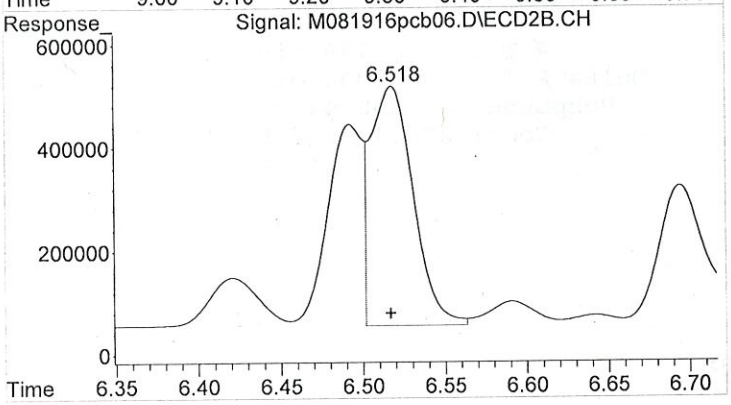
#3 1016-2

R.T.: 5.895 min
Delta R.T.: 0.000 min
Response: 304574
Conc: 278.37 pg/uL



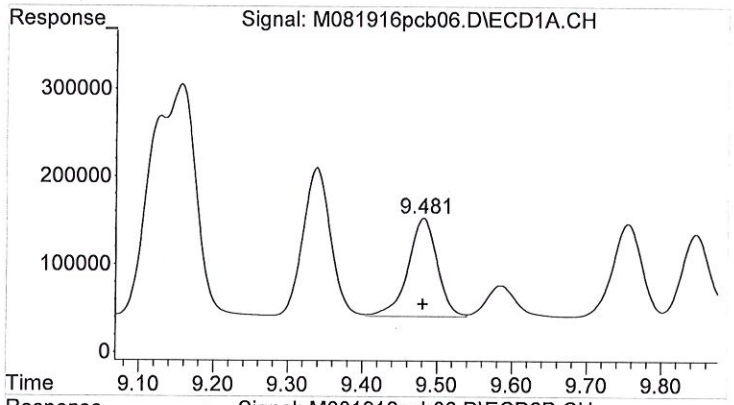
#4 1016-3

R.T.: 9.338 min
Delta R.T.: 0.000 min
Response: 168461
Conc: 263.89 pg/uL



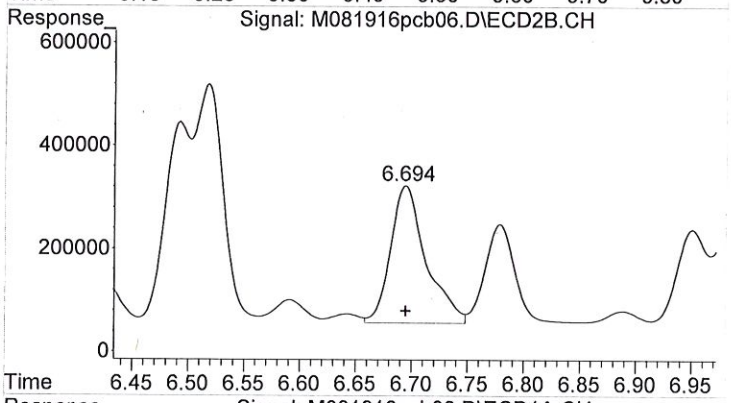
#4 1016-3

R.T.: 6.518 min
Delta R.T.: 0.000 min
Response: 463419
Conc: 280.36 pg/uL



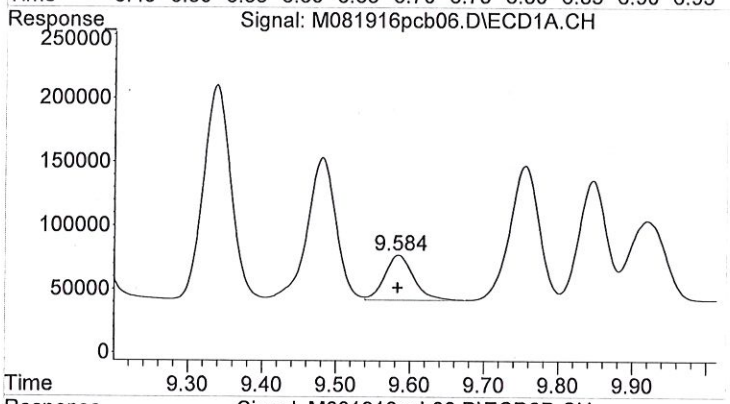
#5 1016-4

R.T.: 9.481 min
Delta R.T.: 0.000 min
Response: 111668
Conc: 260.51 pg/uL



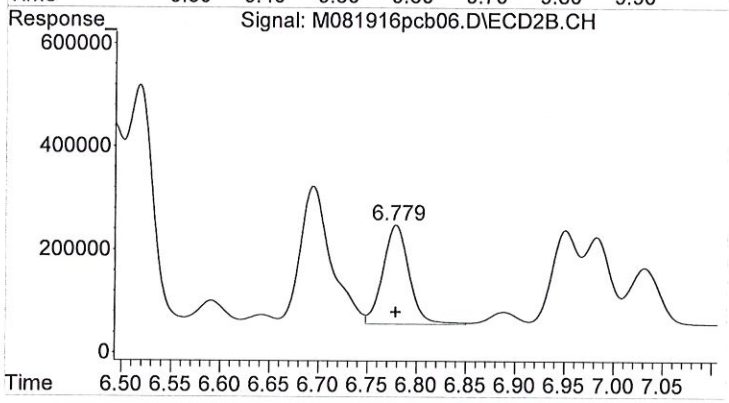
#5 1016-4

R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 266541
Conc: 274.62 pg/uL



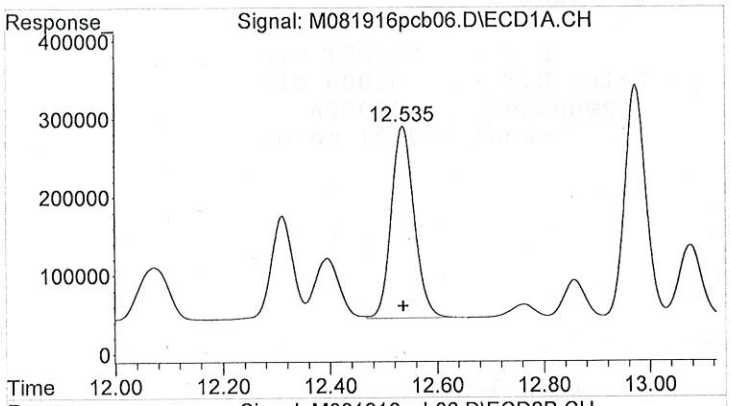
#6 1016-5

R.T.: 9.585 min
Delta R.T.: 0.000 min
Response: 35347
Conc: 262.74 pg/uL



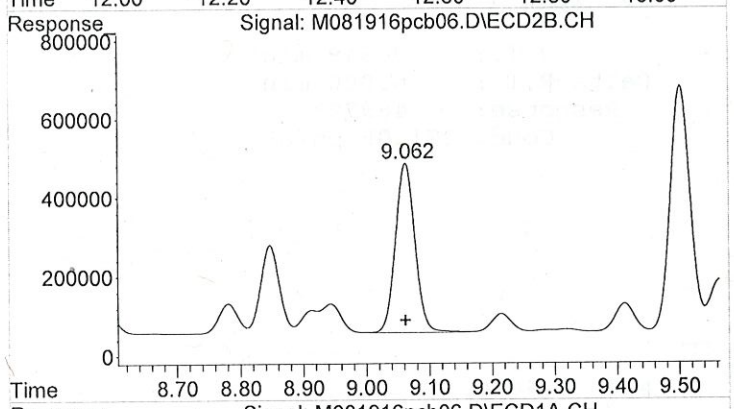
#6 1016-5

R.T.: 6.779 min
Delta R.T.: 0.000 min
Response: 192043
Conc: 276.42 pg/uL



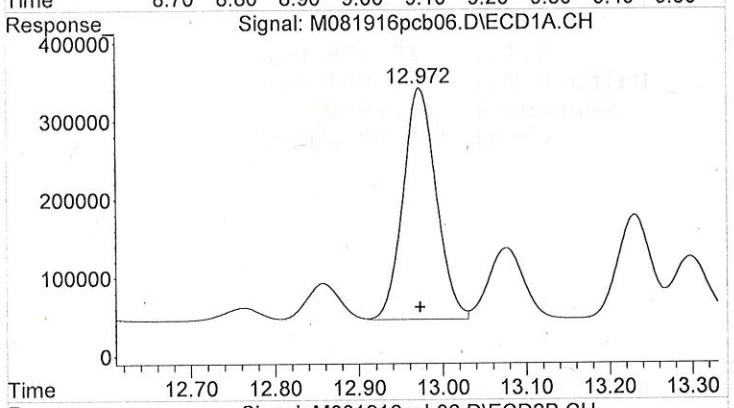
#7 1260-1

R.T.: 12.536 min
Delta R.T.: 0.000 min
Response: 244513
Conc: 274.90 pg/uL



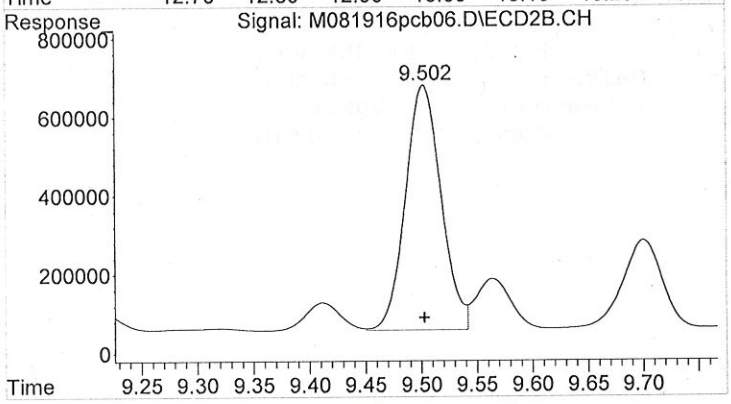
#7 1260-1

R.T.: 9.062 min
Delta R.T.: 0.000 min
Response: 428090
Conc: 279.07 pg/uL



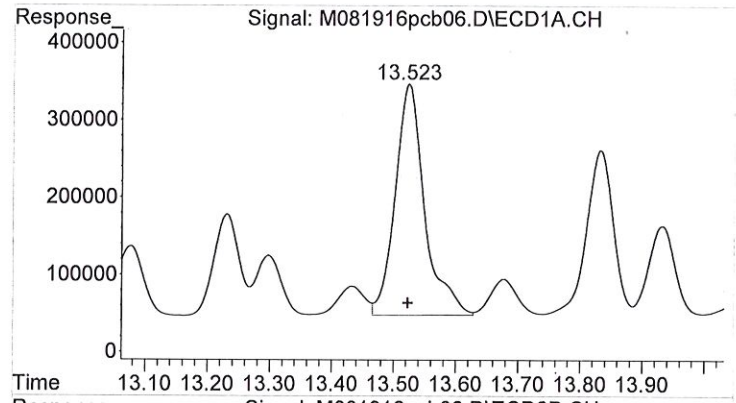
#8 1260-2

R.T.: 12.973 min
Delta R.T.: 0.000 min
Response: 295434
Conc: 277.10 pg/uL



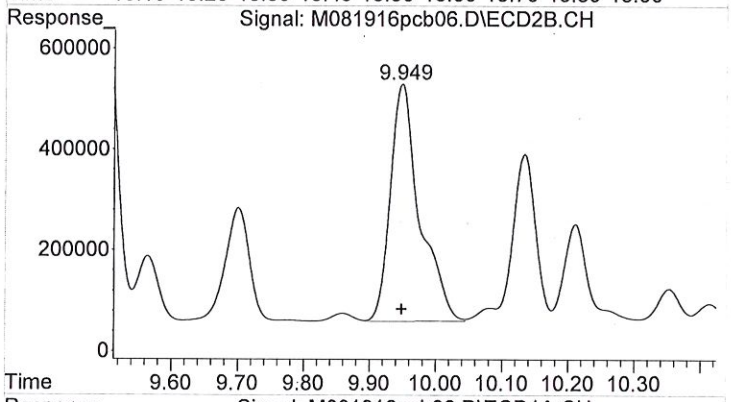
#8 1260-2

R.T.: 9.503 min
Delta R.T.: 0.000 min
Response: 620412
Conc: 279.79 pg/uL



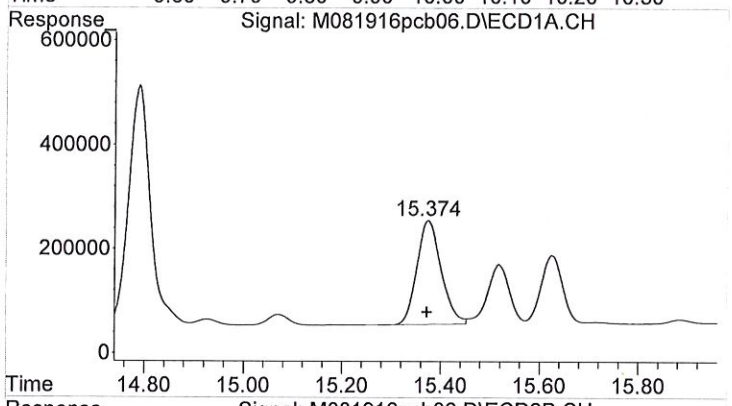
#9 1260-3

R.T.: 13.524 min
Delta R.T.: 0.000 min
Response: 299026
Conc: 279.21 pg/uL



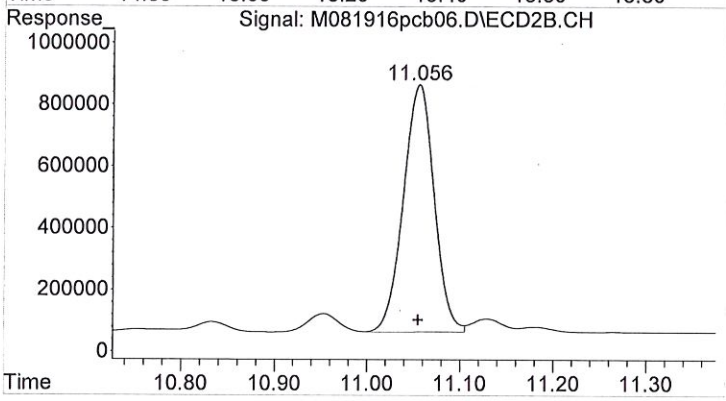
#9 1260-3

R.T.: 9.949 min
Delta R.T.: 0.000 min
Response: 469793
Conc: 271.08 pg/uL



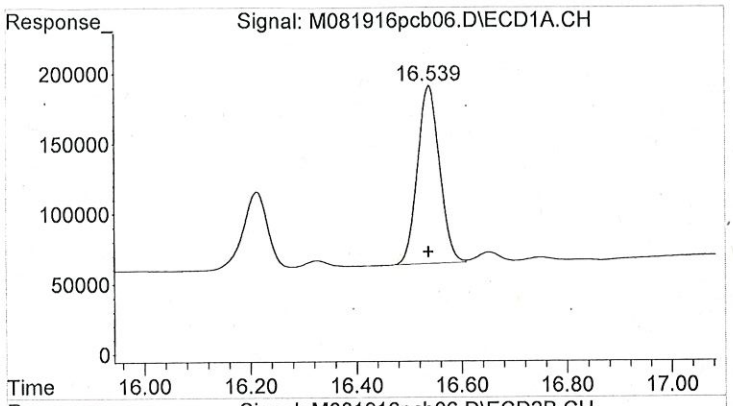
#10 1260-4

R.T.: 15.374 min
Delta R.T.: 0.001 min
Response: 199203
Conc: 275.20 pg/uL



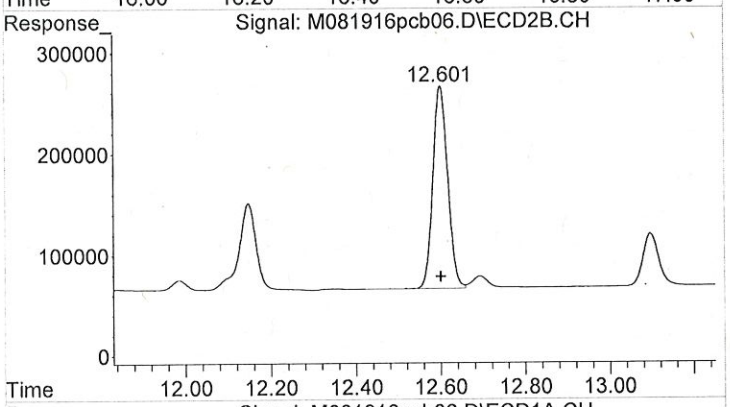
#10 1260-4

R.T.: 11.056 min
Delta R.T.: 0.000 min
Response: 800536
Conc: 279.32 pg/uL



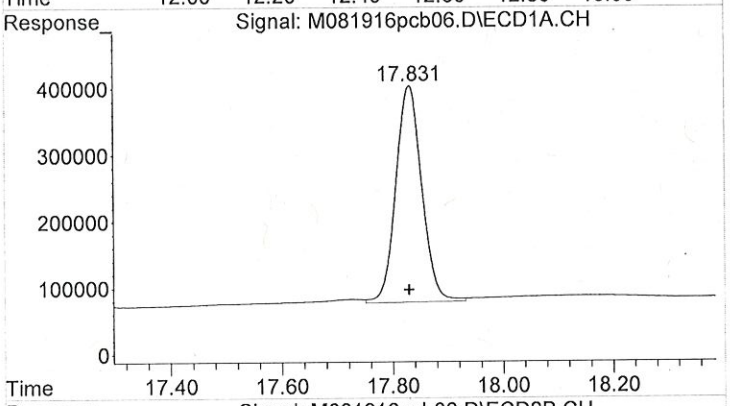
#11 1260-5

R.T.: 16.539 min
Delta R.T.: 0.000 min
Response: 126849
Conc: 279.49 pg/uL



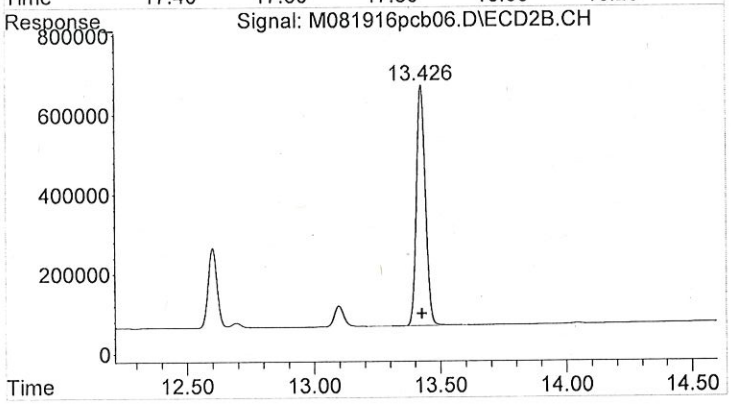
#11 1260-5

R.T.: 12.601 min
Delta R.T.: 0.000 min
Response: 199640
Conc: 272.91 pg/uL



#12 dcb

R.T.: 17.831 min
Delta R.T.: 0.000 min
Response: 325196
Conc: 28.10 pg/uL



#12 dcb

R.T.: 13.426 min
Delta R.T.: -0.002 min
Response: 602785
Conc: 28.05 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 11:18 am
Operator : DWOOD
Sample : 87PCB062716F
Misc : PCB 1016/1260 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 7 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:44 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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)	7.003	4.886	1096741	1876278	50.978	54.750
12)	S2 dcb	17.829	13.425	574290	1088847	50.255	51.097
	Target Compounds						
2)	L1 1016 -1	7.614	5.427	182926	333307	479.040	491.594
3)	L1 1016-2	8.682	5.896	225499	534650	489.819	494.846
4)	L1 1016-3	9.337	6.517	286969	818126	479.387	499.159
5)	L1 1016-4	9.480	6.695	193272	486577	480.572	507.082
6)	L1 1016-5	9.585	6.779	59946	344558	481.596	500.644
	Sum 1016 -1			948611	2517218	2410.415	2493.325
	Average 1016 -1					482.083	498.665
7)	L2 1260-1	12.535	9.062	419493	753278	480.805	496.477
8)	L2 1260-2	12.972	9.503	511672	1084291	488.048	493.625
9)	L2 1260-3	13.521	9.948	509676	877400	482.884	509.806
10)	L2 1260-4	15.373	11.055	343885	1430773	481.644	501.641
11)	L2 1260-5	16.538	12.600	218500	361177	486.447	495.869
	Sum 1260-1			2003226	4506919	2419.828	2497.418
	Average 1260-1					483.966	499.484

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

ww 8/19/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 11:18 am
Operator : DWOOD
Sample : 87PCB062716F
Misc : PCB 1016/1260 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 7 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 12:58:31 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Jul 20 09:11:32 2016
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)	7.003	4.886	1096741	1876278	50.225	56.373	
12) S2 dcb	17.829	13.425	574290	1088847	44.563	51.754	
Target Compounds							
2) L1 1016 -1	7.614	5.427	182926	333307	415.757	486.403	
3) L1 1016-2	8.682	5.896	225499	534650	423.609	562.109	#
4) L1 1016-3	9.337	6.517	286969	818126	412.991	486.939	
5) L1 1016-4	9.480	6.695	193272	486577	416.556	491.107	
6) L1 1016-5	9.585	6.779	59946	344558	415.657	483.993	
Sum 1016 -1			948611	2517218	2084.570	2510.550	
Average 1016 -1					416.914	502.110	
7) L2 1260-1	12.535	9.062	419493	753278	416.546	493.369	
8) L2 1260-2	12.972	9.503	511672	1084291	431.463	490.003	
9) L2 1260-3	13.521	9.948	509676	877400	420.984	503.317	
10) L2 1260-4	15.373	11.055	343885	1430773	450.533	507.084	
11) L2 1260-5	16.538	12.600	218500	361177	424.466	493.615	
Sum 1260-1			2003226	4506919	2143.993	2487.388	
Average 1260-1					428.799	497.478	

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

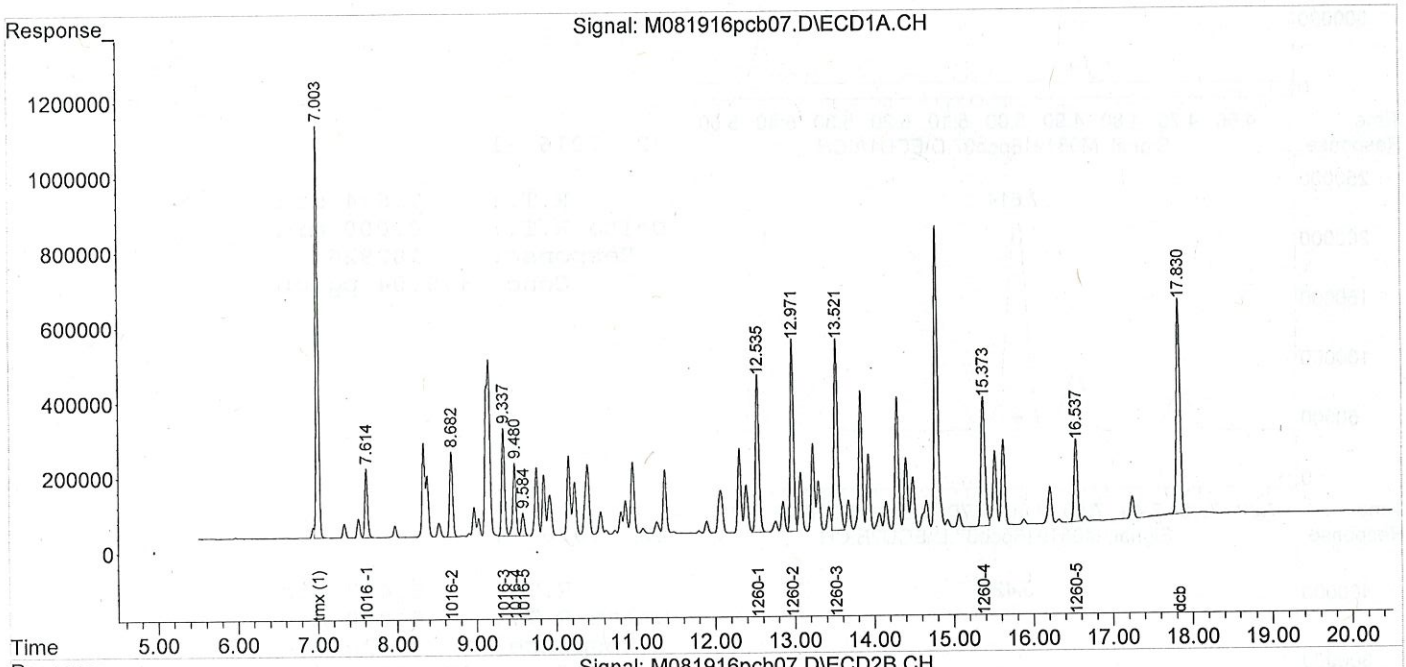
ww 8/19/16

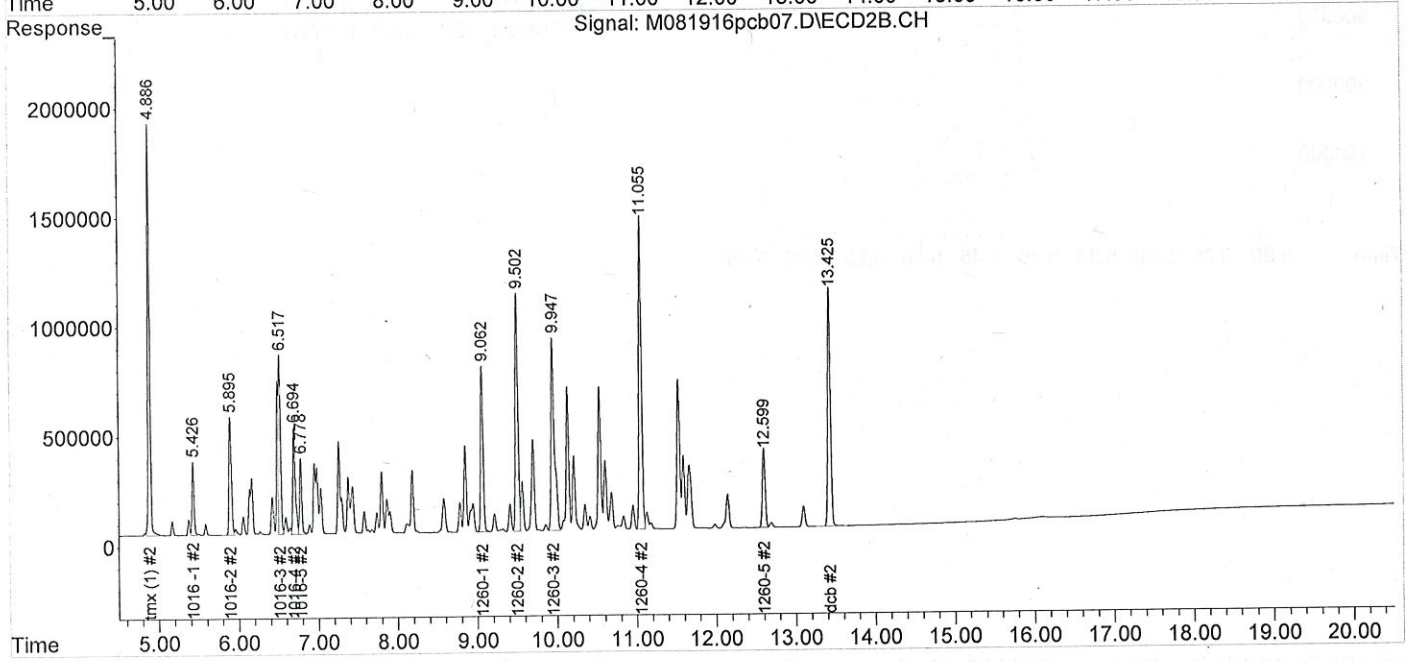
Quantitation Report (QT Reviewed)

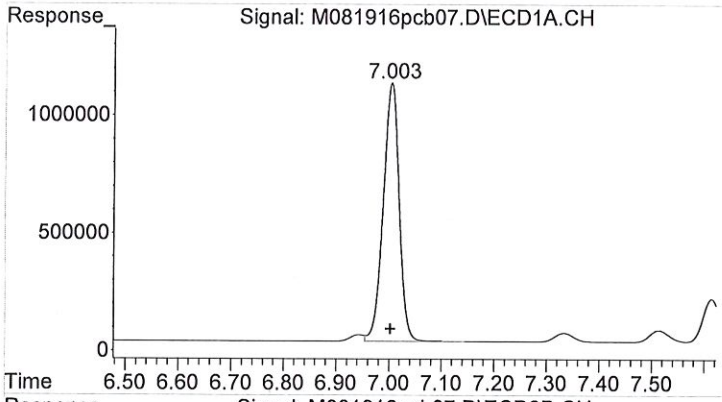
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 11:18 am
Operator : DWOOD
Sample : 87PCB062716F
Misc : PCB 1016/1260 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 7 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:44 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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

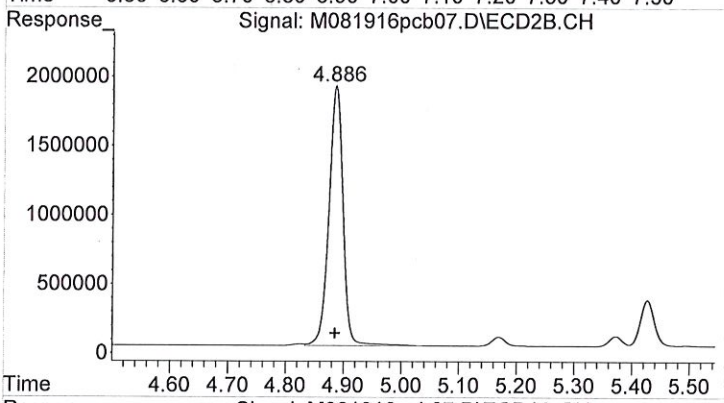






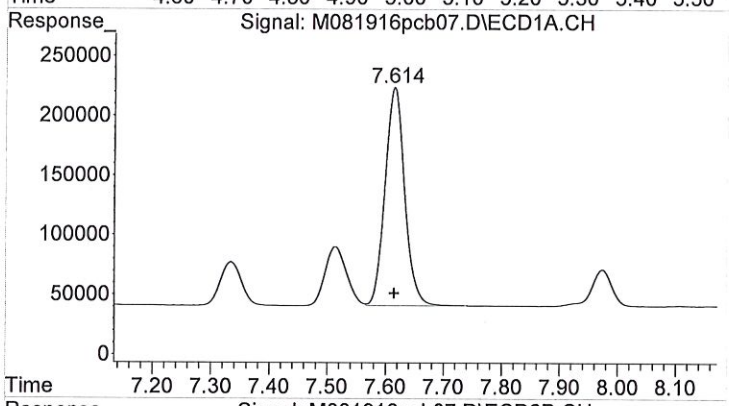
#1 tmx (1)

R.T.: 7.003 min
Delta R.T.: 0.000 min
Response: 1096741
Conc: 50.98 pg/uL



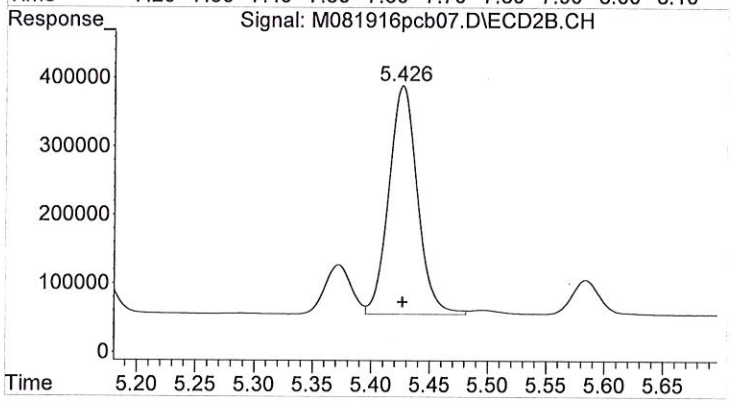
#1 tmx (1)

R.T.: 4.886 min
Delta R.T.: 0.000 min
Response: 1876278
Conc: 54.75 pg/uL



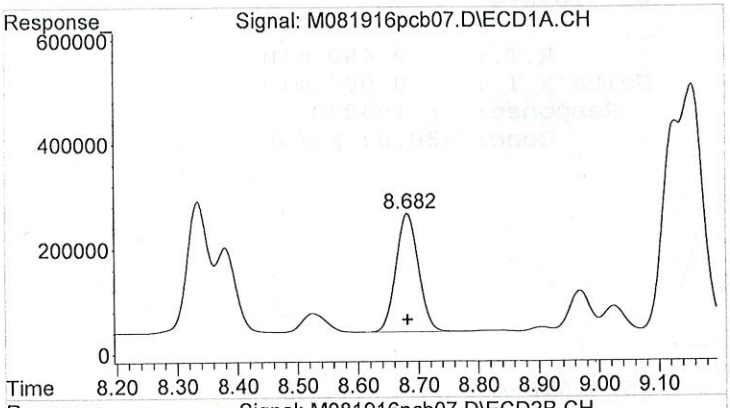
#2 1016 -1

R.T.: 7.614 min
Delta R.T.: 0.000 min
Response: 182926
Conc: 479.04 pg/uL



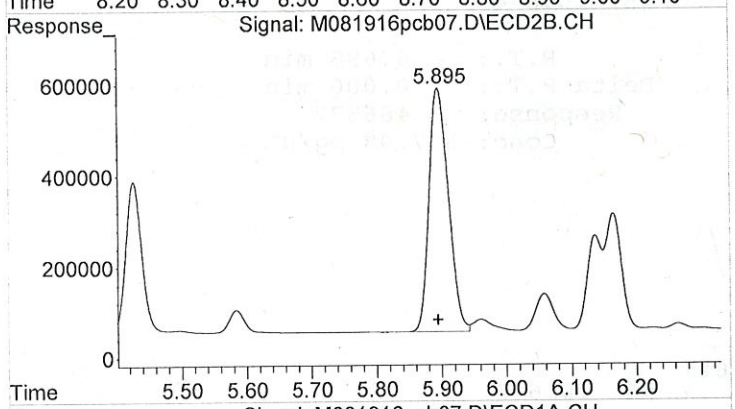
#2 1016 -1

R.T.: 5.427 min
Delta R.T.: 0.000 min
Response: 333307
Conc: 491.59 pg/uL



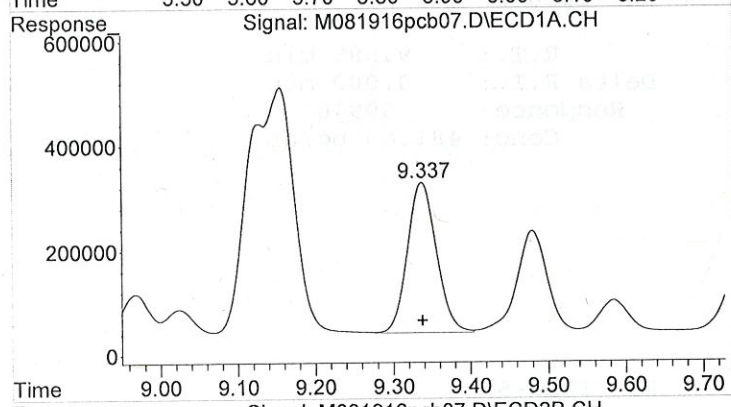
#3 1016-2

R.T.: 8.682 min
Delta R.T.: 0.000 min
Response: 225499
Conc: 489.82 pg/uL



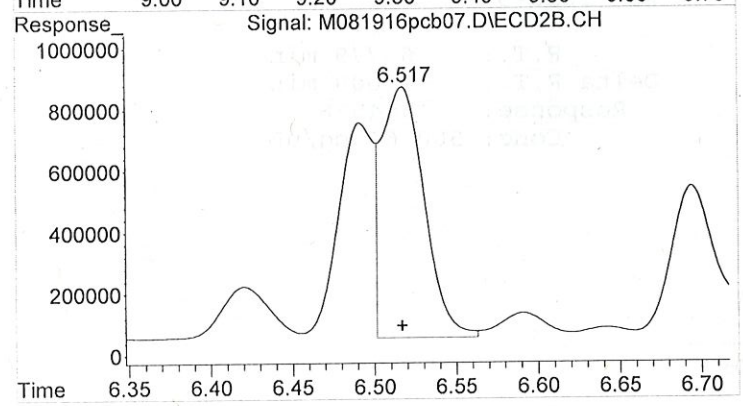
#3 1016-2

R.T.: 5.896 min
Delta R.T.: 0.000 min
Response: 534650
Conc: 494.85 pg/uL



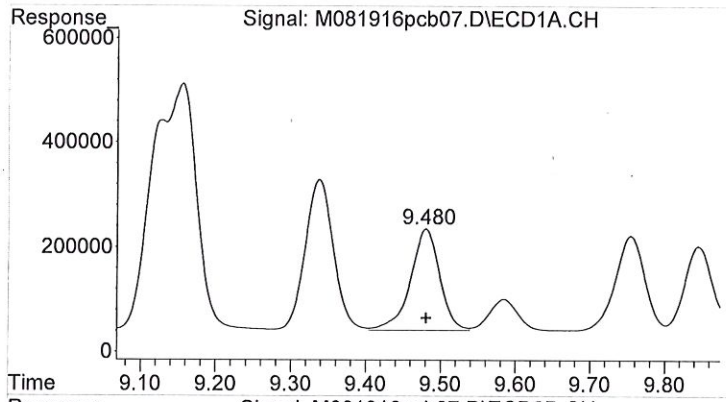
#4 1016-3

R.T.: 9.337 min
Delta R.T.: 0.000 min
Response: 286969
Conc: 479.39 pg/uL



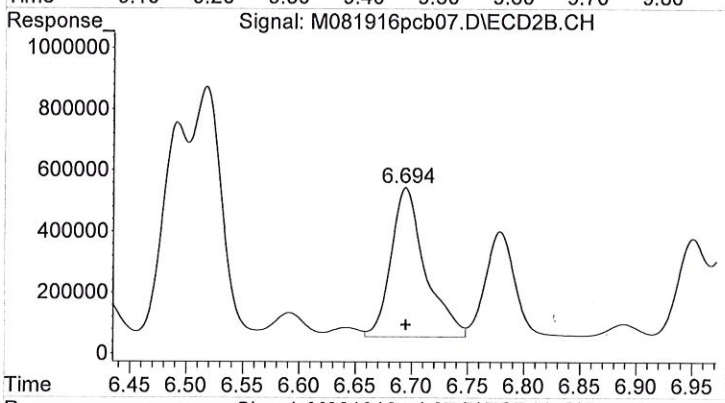
#4 1016-3

R.T.: 6.517 min
Delta R.T.: 0.000 min
Response: 818126
Conc: 499.16 pg/uL



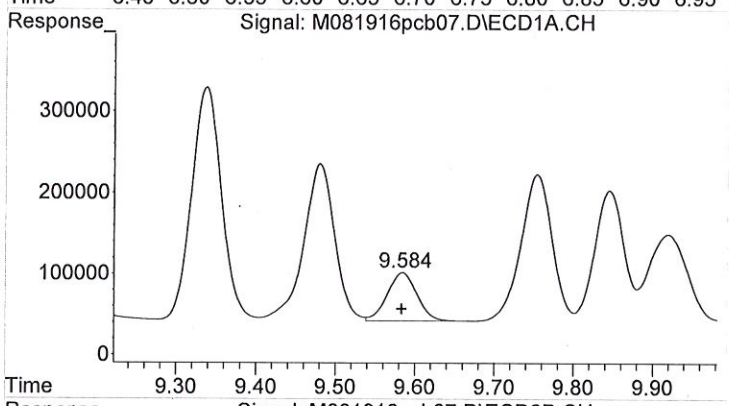
#5 1016-4

R.T.: 9.480 min
Delta R.T.: 0.000 min
Response: 193272
Conc: 480.57 pg/uL



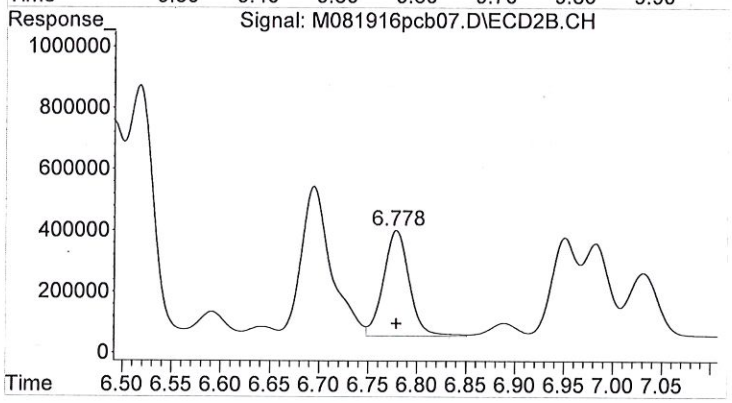
#5 1016-4

R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 486577
Conc: 507.08 pg/uL



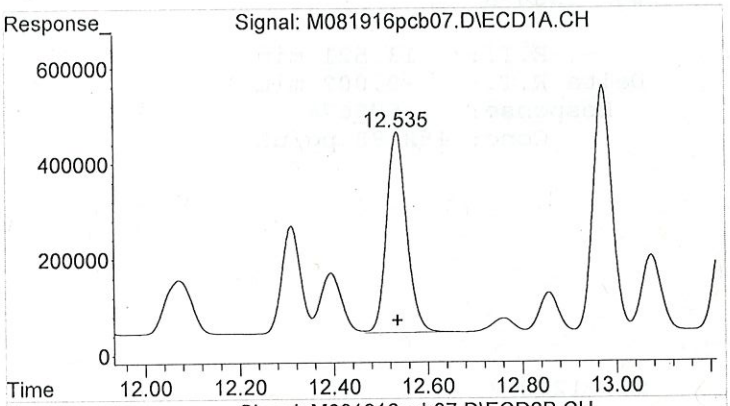
#6 1016-5

R.T.: 9.585 min
Delta R.T.: 0.000 min
Response: 59946
Conc: 481.60 pg/uL



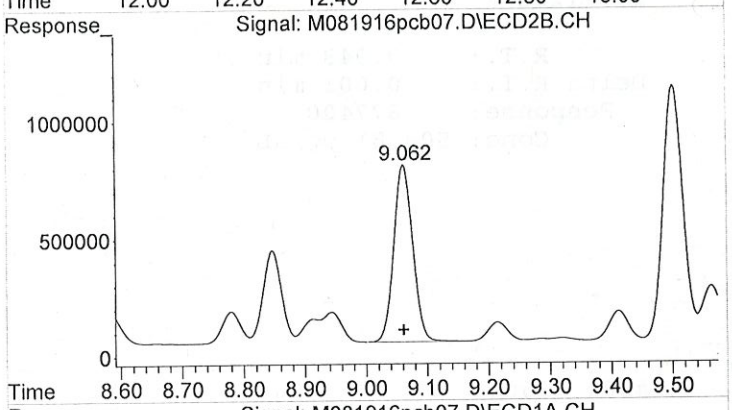
#6 1016-5

R.T.: 6.779 min
Delta R.T.: 0.000 min
Response: 344558
Conc: 500.64 pg/uL



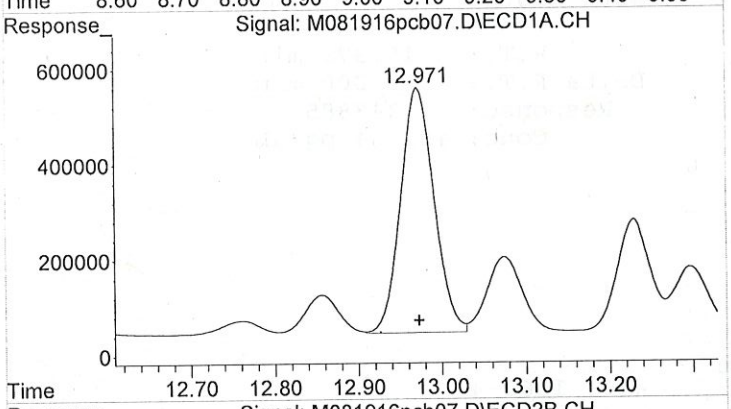
#7 1260-1

R.T.: 12.535 min
Delta R.T.: 0.000 min
Response: 419493
Conc: 480.81 pg/uL



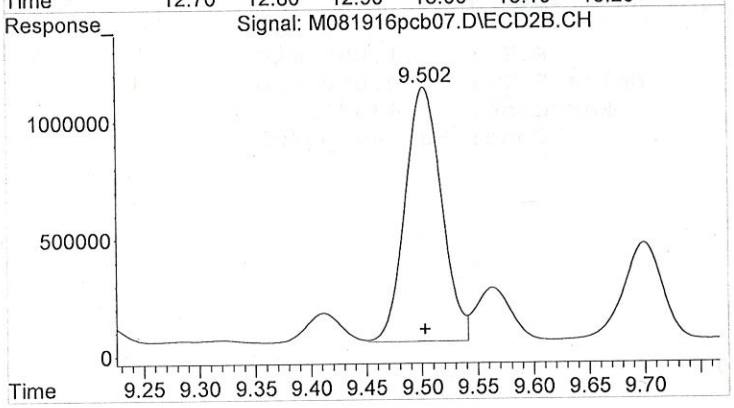
#7 1260-1

R.T.: 9.062 min
Delta R.T.: 0.000 min
Response: 753278
Conc: 496.48 pg/uL



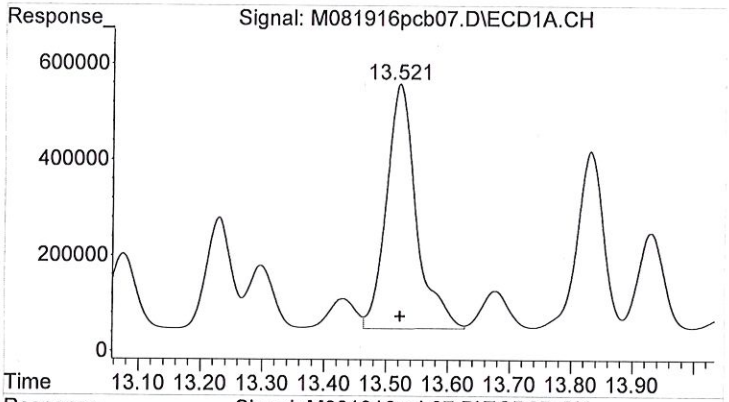
#8 1260-2

R.T.: 12.972 min
Delta R.T.: -0.001 min
Response: 511672
Conc: 488.05 pg/uL



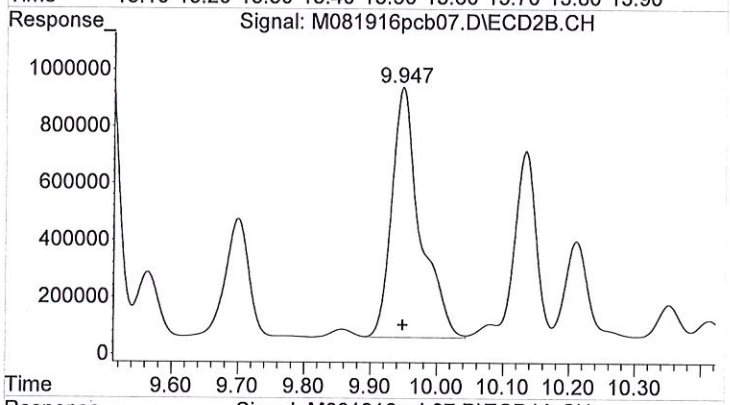
#8 1260-2

R.T.: 9.503 min
Delta R.T.: 0.000 min
Response: 1084291
Conc: 493.62 pg/uL



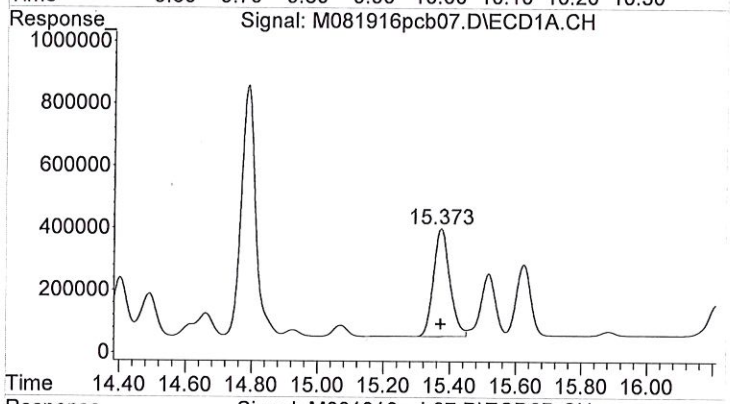
#9 1260-3

R.T.: 13.521 min
Delta R.T.: -0.002 min
Response: 509676
Conc: 482.88 pg/uL



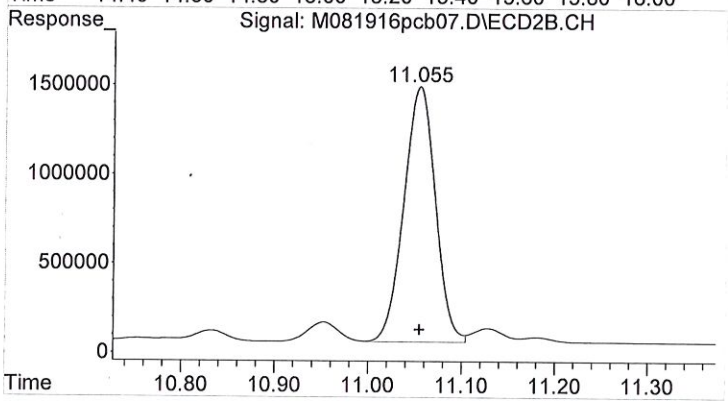
#9 1260-3

R.T.: 9.948 min
Delta R.T.: -0.001 min
Response: 877400
Conc: 509.81 pg/uL



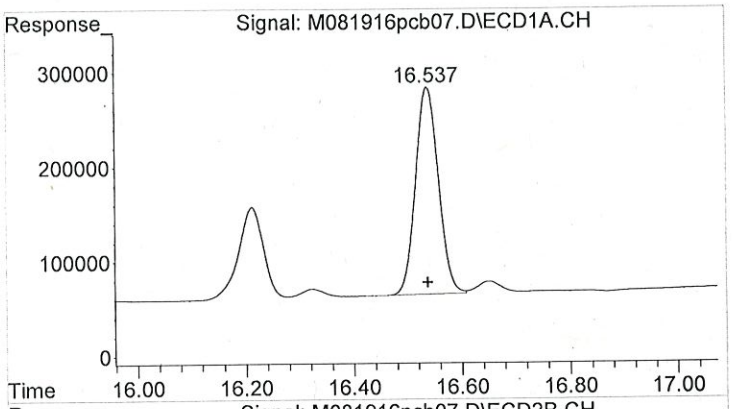
#10 1260-4

R.T.: 15.373 min
Delta R.T.: 0.000 min
Response: 343885
Conc: 481.64 pg/uL



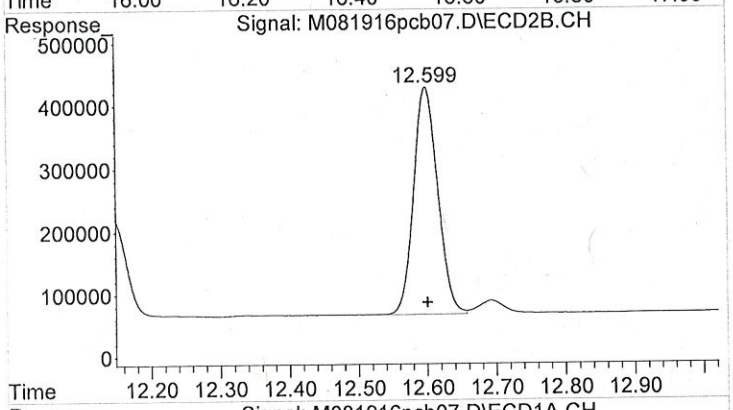
#10 1260-4

R.T.: 11.055 min
Delta R.T.: 0.000 min
Response: 1430773
Conc: 501.64 pg/uL



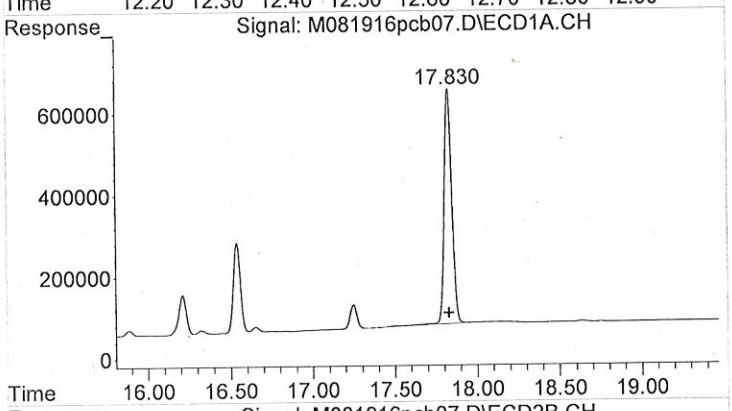
#11 1260-5

R.T.: 16.538 min
Delta R.T.: 0.000 min
Response: 218500
Conc: 486.45 pg/uL



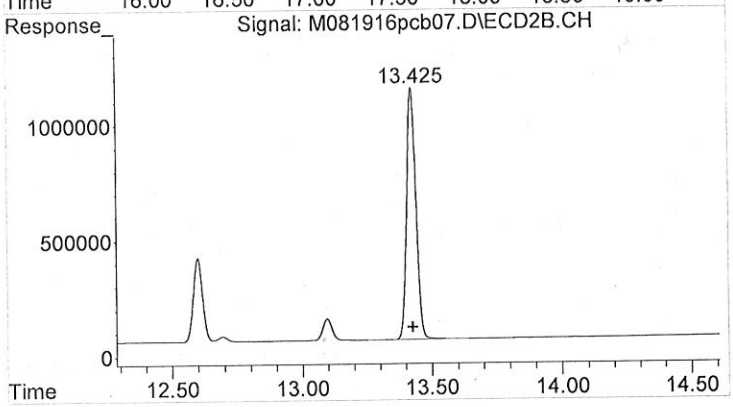
#11 1260-5

R.T.: 12.600 min
Delta R.T.: -0.001 min
Response: 361177
Conc: 495.87 pg/uL



#12 dcb

R.T.: 17.829 min
Delta R.T.: 0.000 min
Response: 574290
Conc: 50.26 pg/uL



#12 dcb

R.T.: 13.425 min
Delta R.T.: -0.003 min
Response: 1088847
Conc: 51.10 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 11:43 am
Operator : DWOOD
Sample : 87PCB062716G
Misc : PCB 1016/1260 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 8 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:49 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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
System Monitoring Compounds						
1) S2 tmx (1)	7.003	4.887	2064370	3448802	96.486	101.425
12) S2 dcb	17.831	13.425	1056938	2006330	93.192	94.602
Target Compounds						
2) L1 1016 -1	7.614	5.426	329286	599929	1015.278	892.315
3) L1 1016-2	8.682	5.895	398363	945284	1002.663	881.211
4) L1 1016-3	9.337	6.517	519666	1487974	1011.446	912.347
5) L1 1016-4	9.481	6.693	350944	853802	1014.732	895.042
6) L1 1016-5	9.585	6.778	101872	633152	1010.358	924.924
Sum 1016 -1			1700131	4520141	5054.478	4505.839
Average 1016 -1					1010.896	901.168
7) L2 1260-1	12.535	9.061	773777	1369434	897.695	908.410
8) L2 1260-2	12.973	9.502	925816	1993716	892.069	912.847
9) L2 1260-3	13.522	9.947	950233	1590687	908.860	927.554
10) L2 1260-4	15.375	11.054	642570	2638477	907.825	927.668
11) L2 1260-5	16.539	12.600	401796	685389	900.351	943.365
Sum 1260-1			3694192	8277703	4506.801	4619.844
Average 1260-1					901.360	923.969

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

WW
8/19/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 11:43 am
Operator : DWOOD
Sample : 87PCB062716G
Misc : PCB 1016/1260 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 8 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 12:58:36 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Jul 20 09:11:32 2016
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)	7.003	4.887	2064370	3448802	95.096	104.643
12) S2 dcb	17.831	13.425	1056938	2006330	82.501	95.841
Target Compounds						
2) L1 1016 -1	7.614	5.426	329286	599929	877.530	883.369
3) L1 1016-2	8.682	5.895	398363	945284	855.072	999.479
4) L1 1016-3	9.337	6.517	519666	1487974	856.635	890.114
5) L1 1016-4	9.481	6.693	350944	853802	848.111	867.119
6) L1 1016-5	9.585	6.778	101872	633152	806.433	894.090
Sum 1016 -1			1700131	4520141	4243.782	4534.171
Average 1016 -1					848.756	906.834
7) L2 1260-1	12.535	9.061	773777	1369434	777.781	903.182
8) L2 1260-2	12.973	9.502	925816	1993716	789.284	906.248
9) L2 1260-3	13.522	9.947	950233	1590687	793.476	915.974
10) L2 1260-4	15.375	11.054	642570	2638477	854.056	938.101
11) L2 1260-5	16.539	12.600	401796	685389	785.635	940.263
Sum 1260-1			3694192	8277703	4000.233	4603.768
Average 1260-1					800.047	920.754

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

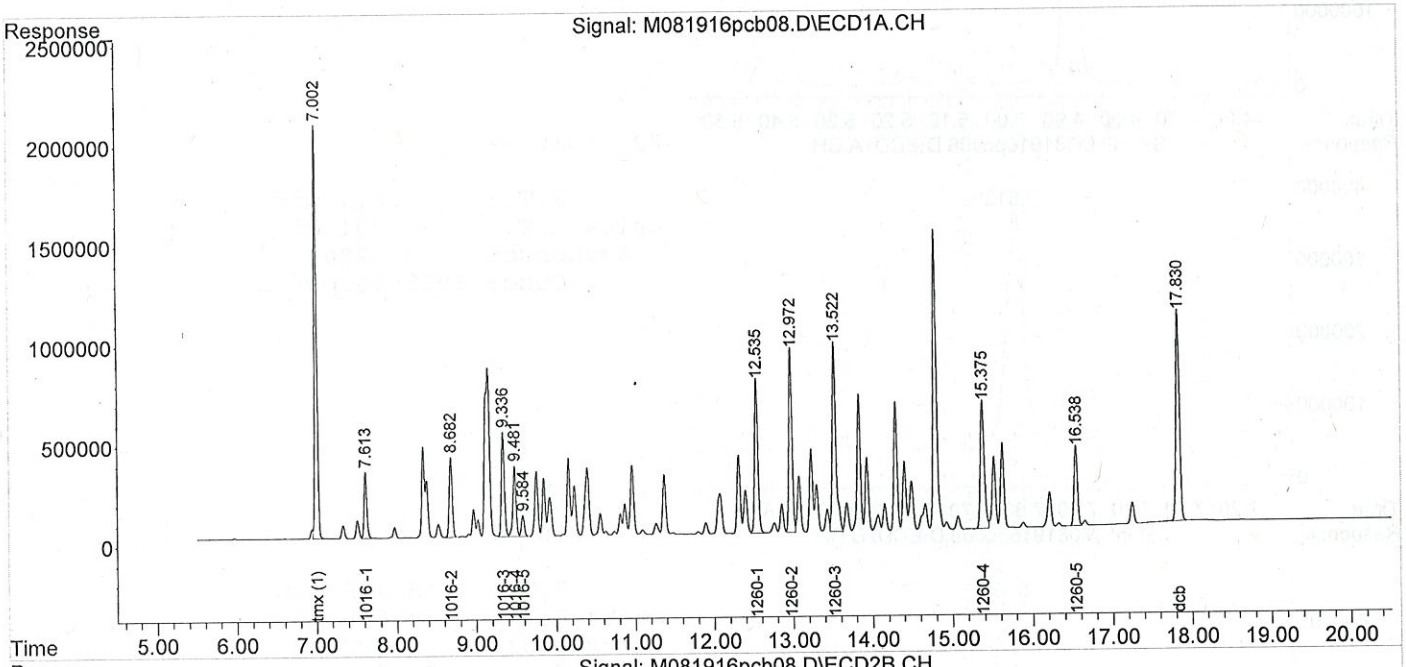
LW 8/19/16

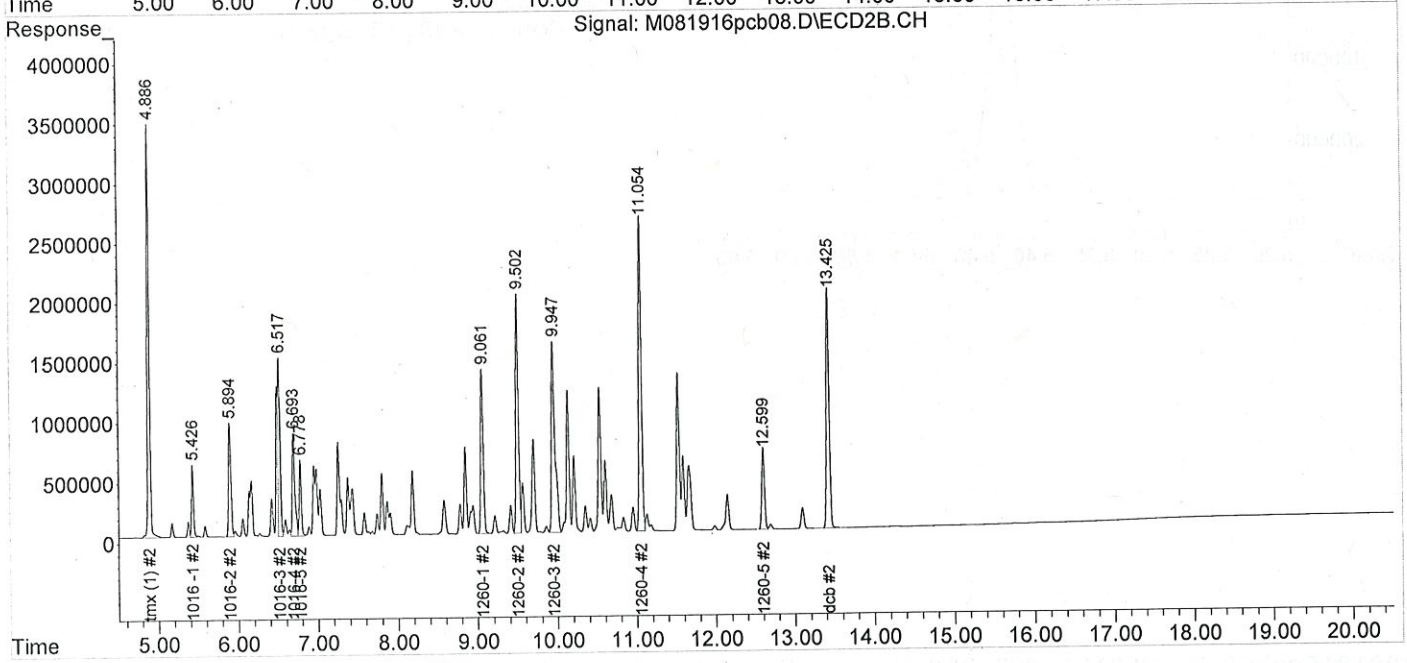
Quantitation Report (QT Reviewed)

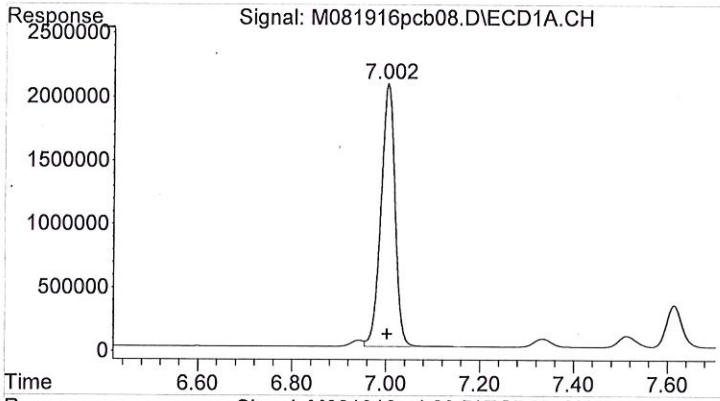
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 11:43 am
Operator : DWOOD
Sample : 87PCB062716G
Misc : PCB 1016/1260 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 8 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:49 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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

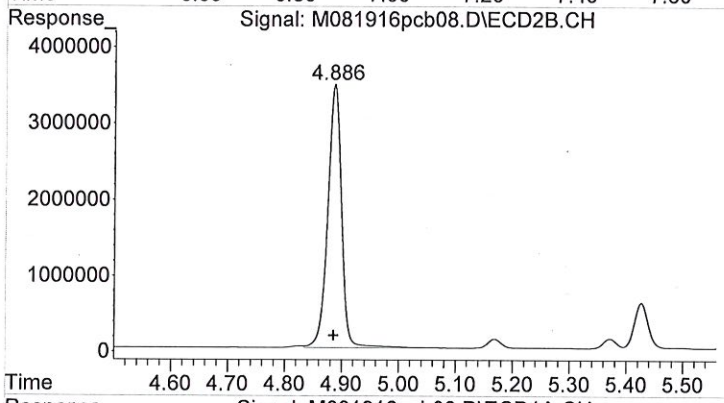






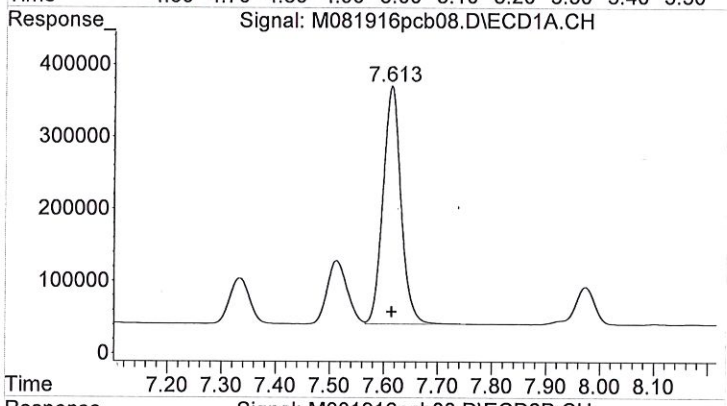
#1 tmx (1)

R.T.: 7.003 min
Delta R.T.: 0.000 min
Response: 2064370
Conc: 96.49 pg/uL



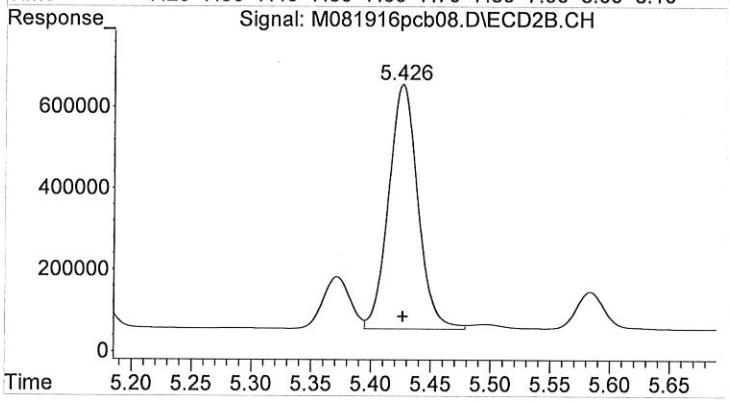
#1 tmx (1)

R.T.: 4.887 min
Delta R.T.: 0.000 min
Response: 3448802
Conc: 101.42 pg/uL



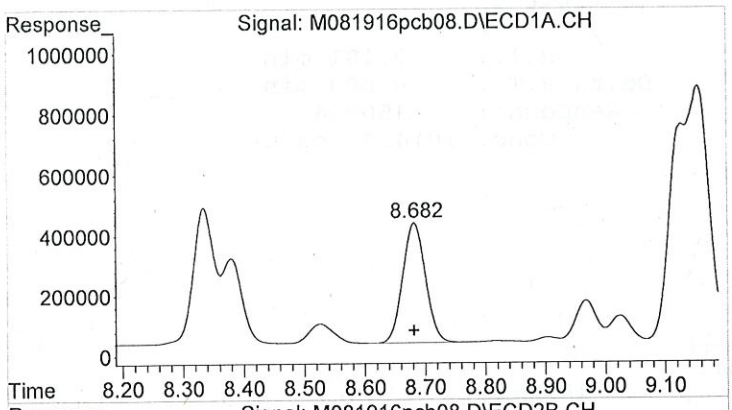
#2 1016 -1

R.T.: 7.614 min
Delta R.T.: -0.001 min
Response: 329286
Conc: 1015.28 pg/uL



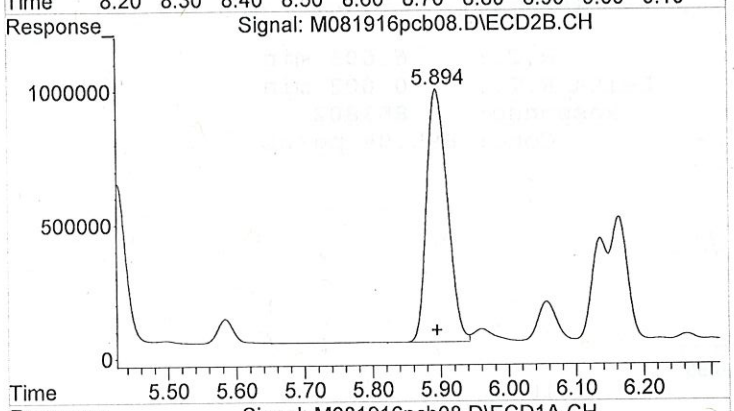
#2 1016 -1

R.T.: 5.426 min
Delta R.T.: 0.000 min
Response: 599929
Conc: 892.32 pg/uL



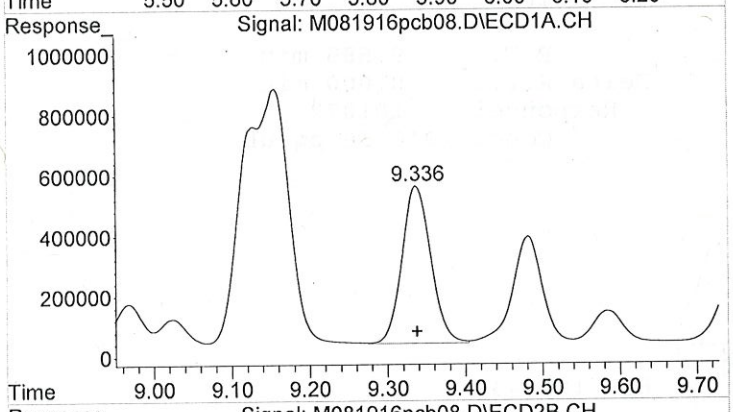
#3 1016-2

R.T.: 8.682 min
Delta R.T.: 0.000 min
Response: 398363
Conc: 1002.66 pg/uL



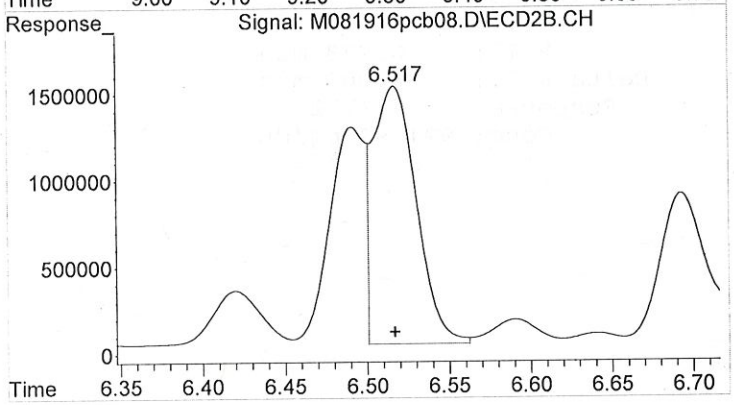
#3 1016-2

R.T.: 5.895 min
Delta R.T.: 0.000 min
Response: 945284
Conc: 881.21 pg/uL



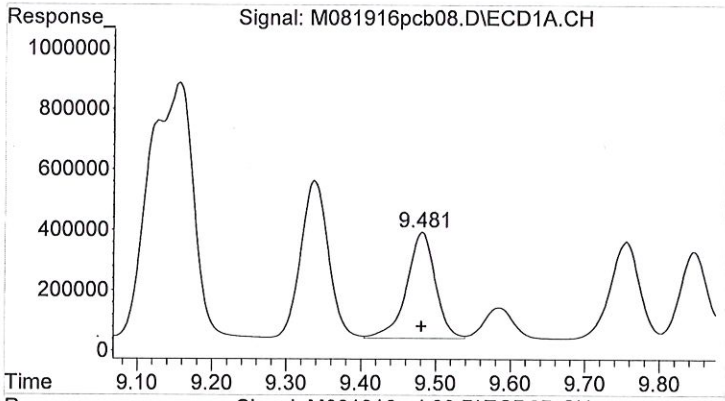
#4 1016-3

R.T.: 9.337 min
Delta R.T.: -0.001 min
Response: 519666
Conc: 1011.45 pg/uL



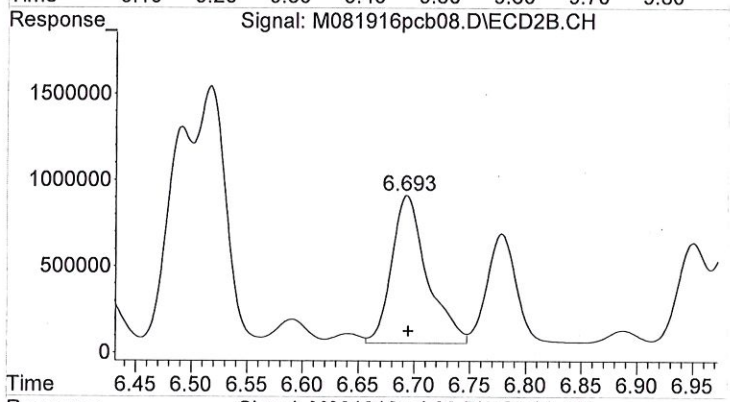
#4 1016-3

R.T.: 6.517 min
Delta R.T.: 0.000 min
Response: 1487974
Conc: 912.35 pg/uL



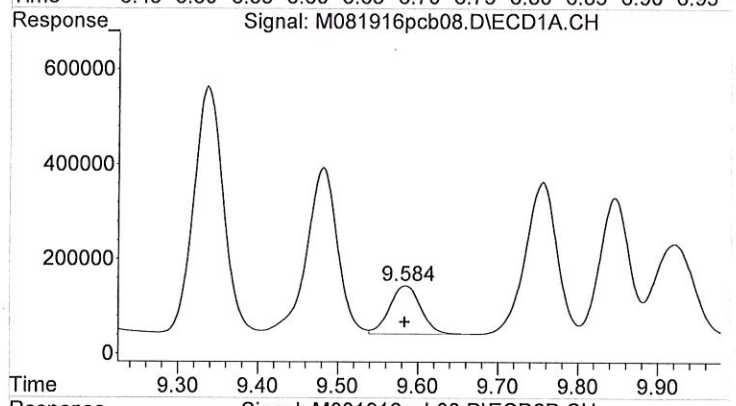
#5 1016-4

R.T.: 9.481 min
Delta R.T.: 0.000 min
Response: 350944
Conc: 1014.73 pg/uL



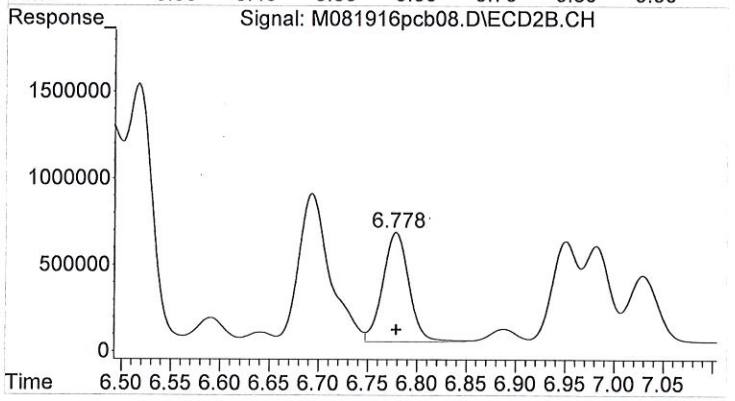
#5 1016-4

R.T.: 6.693 min
Delta R.T.: -0.002 min
Response: 853802
Conc: 895.04 pg/uL



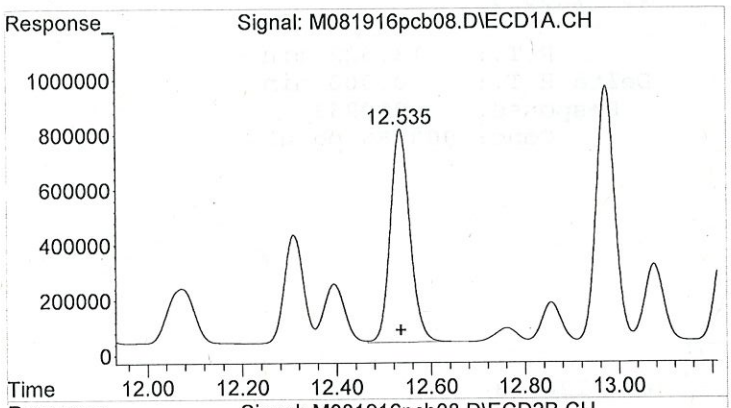
#6 1016-5

R.T.: 9.585 min
Delta R.T.: 0.000 min
Response: 101872
Conc: 1010.36 pg/uL



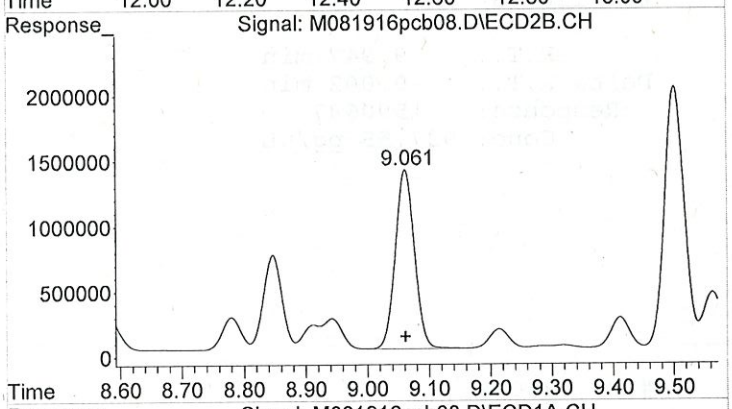
#6 1016-5

R.T.: 6.778 min
Delta R.T.: 0.000 min
Response: 633152
Conc: 924.92 pg/uL



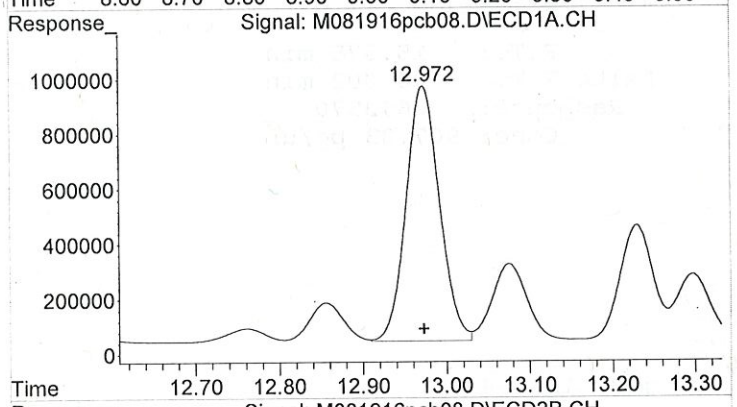
#7 1260-1

R.T.: 12.535 min
Delta R.T.: 0.000 min
Response: 773777
Conc: 897.70 pg/uL



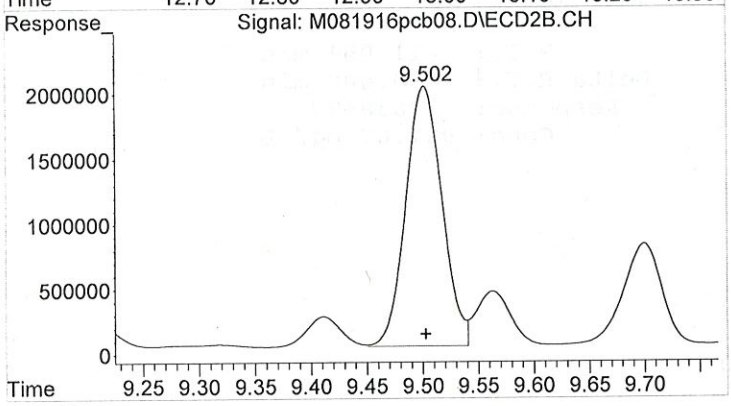
#7 1260-1

R.T.: 9.061 min
Delta R.T.: 0.000 min
Response: 1369434
Conc: 908.41 pg/uL



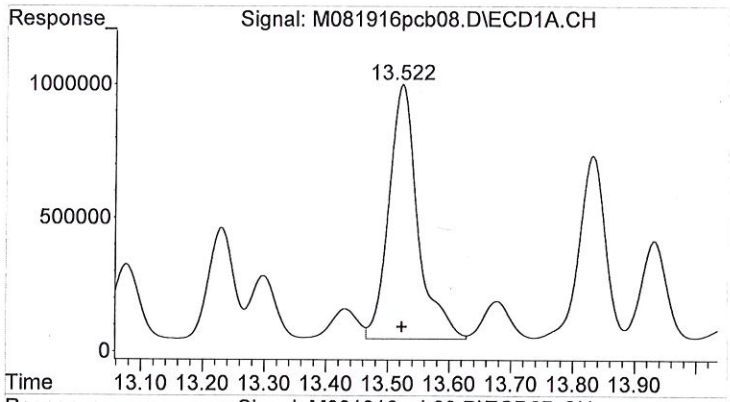
#8 1260-2

R.T.: 12.973 min
Delta R.T.: 0.000 min
Response: 925816
Conc: 892.07 pg/uL



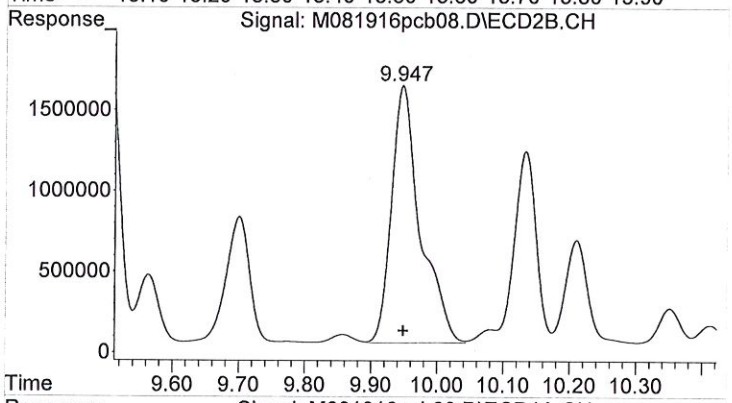
#8 1260-2

R.T.: 9.502 min
Delta R.T.: -0.001 min
Response: 1993716
Conc: 912.85 pg/uL



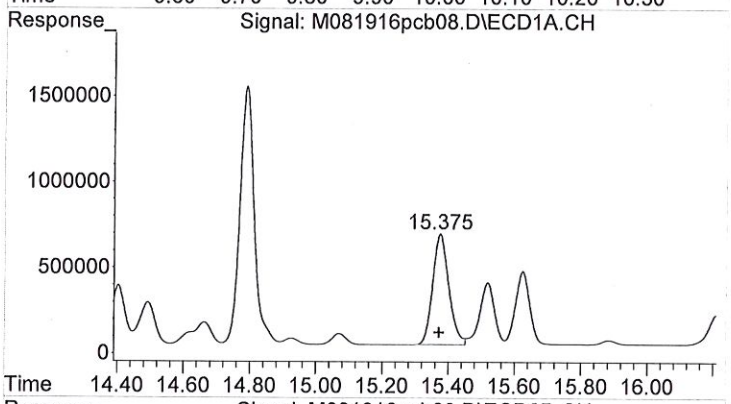
#9 1260-3

R.T.: 13.522 min
Delta R.T.: 0.000 min
Response: 950233
Conc: 908.86 pg/uL



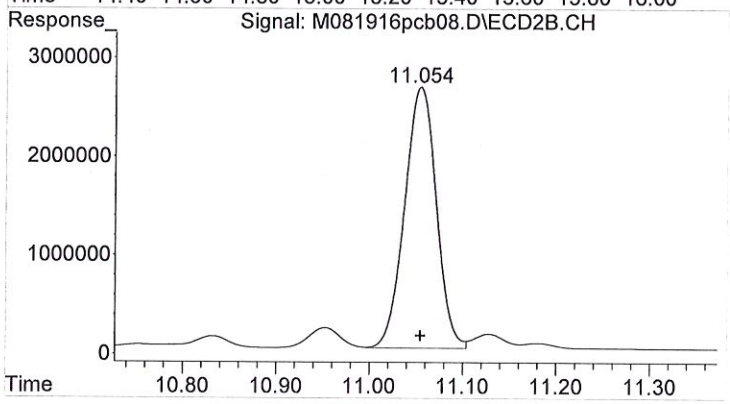
#9 1260-3

R.T.: 9.947 min
Delta R.T.: -0.002 min
Response: 1590687
Conc: 927.55 pg/uL



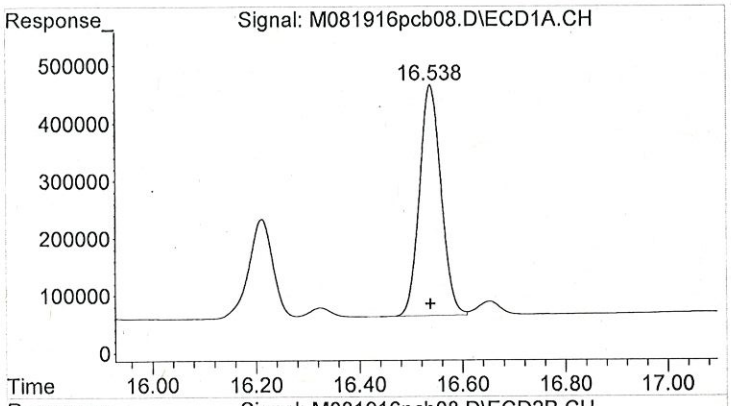
#10 1260-4

R.T.: 15.375 min
Delta R.T.: 0.002 min
Response: 642570
Conc: 907.83 pg/uL



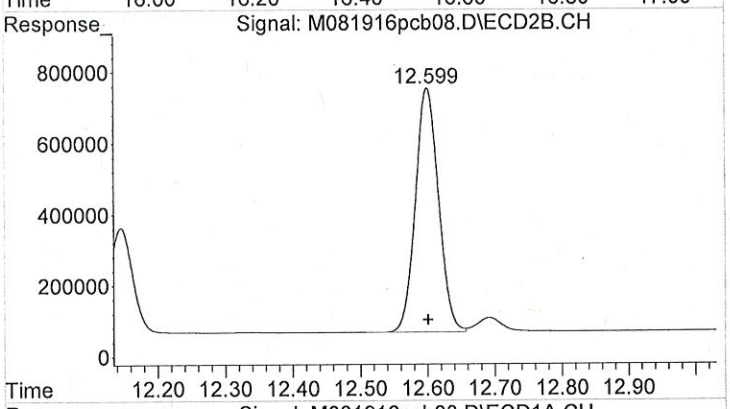
#10 1260-4

R.T.: 11.054 min
Delta R.T.: 0.000 min
Response: 2638477
Conc: 927.67 pg/uL



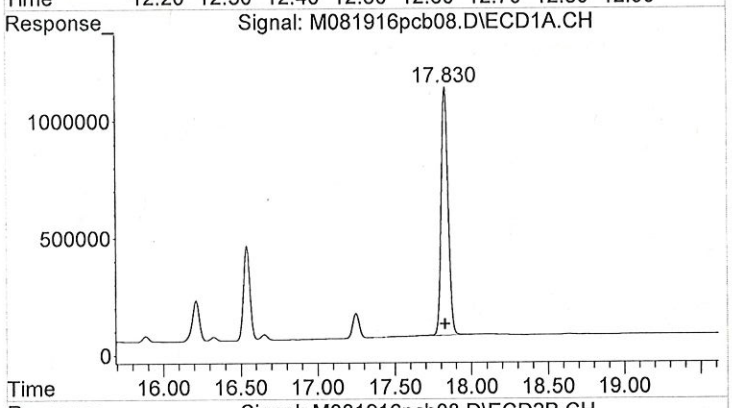
#11 1260-5

R.T.: 16.539 min
Delta R.T.: 0.000 min
Response: 401796
Conc: 900.35 pg/uL



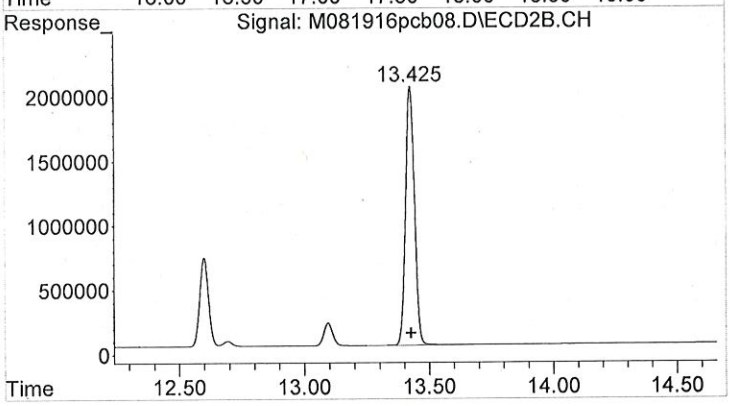
#11 1260-5

R.T.: 12.600 min
Delta R.T.: 0.000 min
Response: 685389
Conc: 943.36 pg/uL



#12 dcb

R.T.: 17.831 min
Delta R.T.: 0.000 min
Response: 1056938
Conc: 93.19 pg/uL



#12 dcb

R.T.: 13.425 min
Delta R.T.: -0.003 min
Response: 2006330
Conc: 94.60 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 12:07 pm
Operator : DWOOD
Sample : 87PCB062716H
Misc : PCB 1016/1260 ICAL 2500 pg/uL
ALS Vial : 0 (Sig #1); 9 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:56 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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)	7.002	4.887	4843595	8109439	227.191	239.759
12)	S2 dcb	17.831	13.427	2592255	4930683	229.774m	233.266
	Target Compounds						
2)	L1 1016 -1	7.615	5.427	741573	1344142	BelowCal	2010.832 #
3)	L1 1016-2	8.683	5.895	931450	2108307	BelowCal	1975.501 #
4)	L1 1016-3	9.338	6.517	1230391	3501184	BelowCal	2154.173 #
5)	L1 1016-4	9.481	6.694	809446	1984686	BelowCal	2089.781 #
6)	L1 1016-5	9.585	6.779	240104	1509758	BelowCal	2213.676 #
	Sum 1016 -1			0	10448077	N.D.	10443.962
	Average 1016 -1					0.000	2088.792
7)	L2 1260-1	12.535	9.062	1818638	3163042	2127.198	2107.531
8)	L2 1260-2	12.973	9.502	2218902	4548735	2153.546	2090.648
9)	L2 1260-3	13.523	9.948	2260767	3784408	2176.023	2212.342
10)	L2 1260-4	15.374	11.055	1562548	6278733	2220.504	2211.800
11)	L2 1260-5	16.539	12.601	968070	1695783	2179.062	2337.964
	Sum 1260-1			8828927	19470702	10856.333	10960.285
	Average 1260-1					2171.267	2192.057

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

ww 8/19/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 12:07 pm
Operator : DWOOD
Sample : 87PCB062716H
Misc : PCB 1016/1260 ICAL 2500 pg/uL
ALS Vial : 0 (Sig #1); 9 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 12:58:41 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Wed Jul 20 09:11:32 2016
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)	7.002	4.887	4843595	8109439	223.975	247.703
12) S2 dcb	17.831	13.427	2620249	4930683	205.383	236.364
Target Compounds						
2) L1 1016 -1	7.615	5.427	741573	1344142	BelowCal	1991.407 #
3) L1 1016-2	8.683	5.895	931450	2108307	BelowCal	2238.224 #
4) L1 1016-3	9.338	6.517	1230391	3501184	BelowCal	2101.847 #
5) L1 1016-4	9.481	6.694	809446	1984686	BelowCal	2025.063 #
6) L1 1016-5	9.585	6.779	240104	1509758	BelowCal	2139.765 #
Sum 1016 -1			0	10448077	N.D.	10496.305
Average 1016 -1					0.000	2099.261
7) L2 1260-1	12.535	9.062	1818638	3163042	1843.147	2096.132
8) L2 1260-2	12.973	9.502	2218902	4548735	1906.512	2075.686
9) L2 1260-3	13.523	9.948	2260767	3784408	1901.536	2185.107
10) L2 1260-4	15.374	11.055	1562548	6278733	2096.945	2237.269
11) L2 1260-5	16.539	12.601	968070	1695783	1901.428	2332.220
Sum 1260-1			8828927	19470702	9649.567	10926.412
Average 1260-1					1929.913	2185.282

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

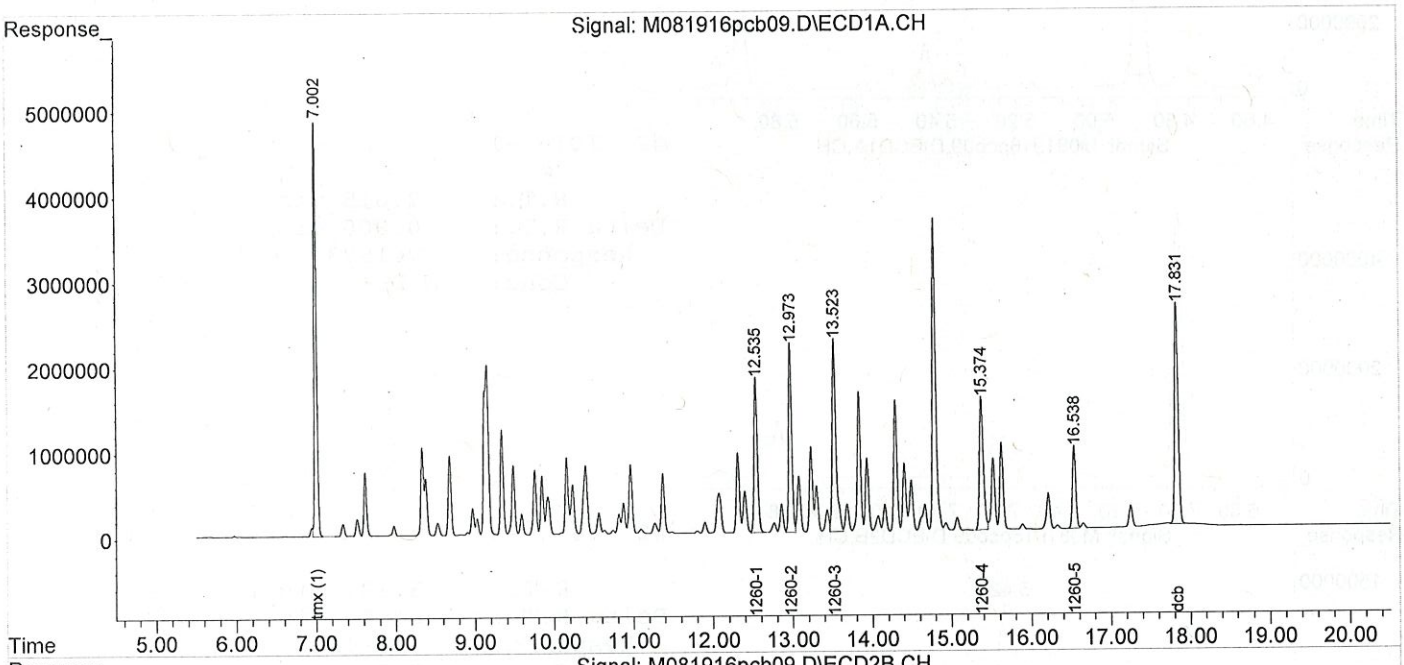
lw
8/19/16

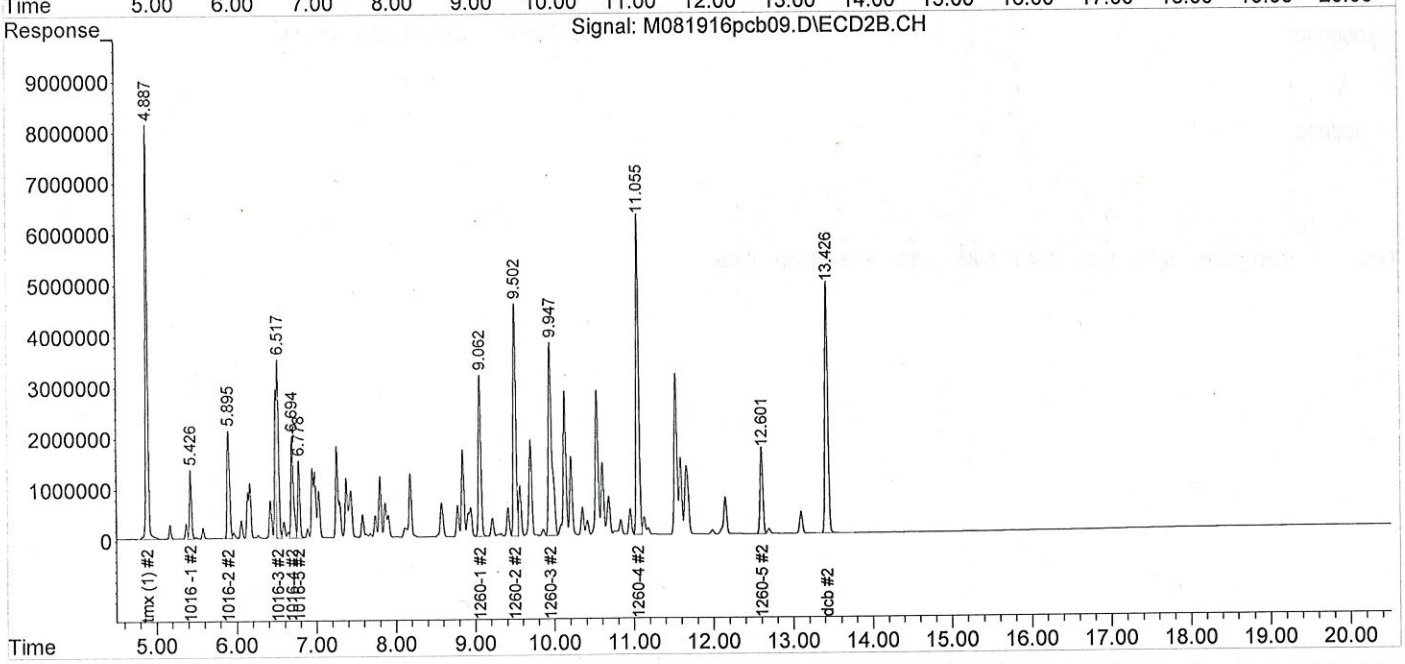
Quantitation Report (QT Reviewed)

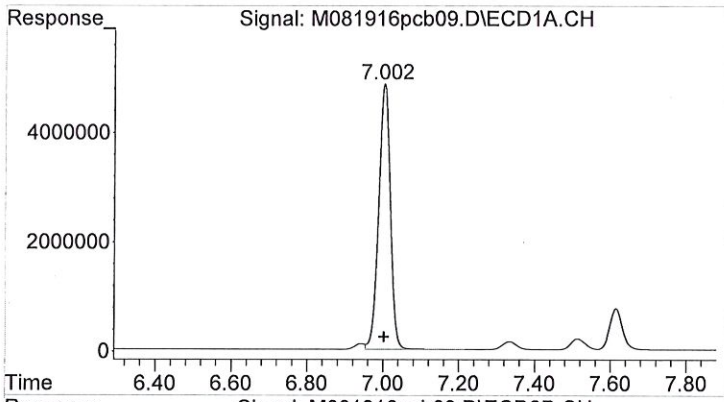
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 12:07 pm
Operator : DWOOD
Sample : 87PCB062716H
Misc : PCB 1016/1260 ICAL 2500 pg/uL
ALS Vial : 0 (Sig #1); 9 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:18:56 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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

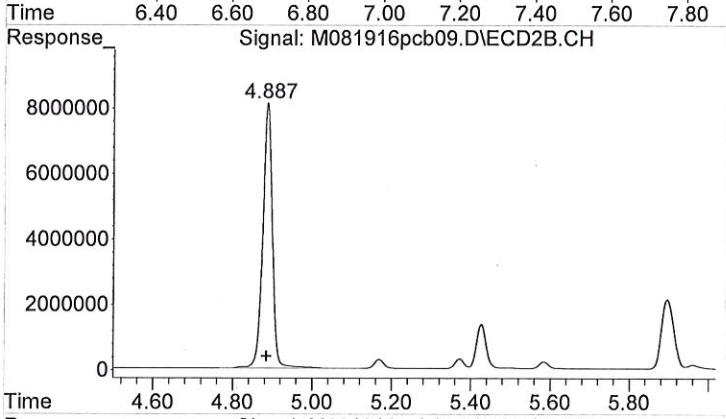






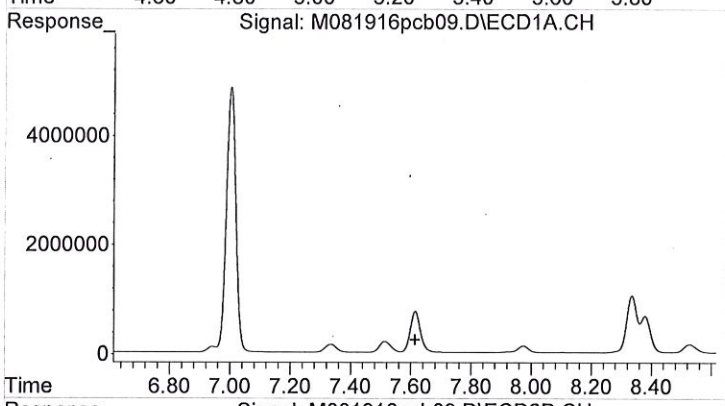
#1 tmx (1)

R.T.: 7.002 min
Delta R.T.: 0.000 min
Response: 4843595
Conc: 227.19 pg/uL



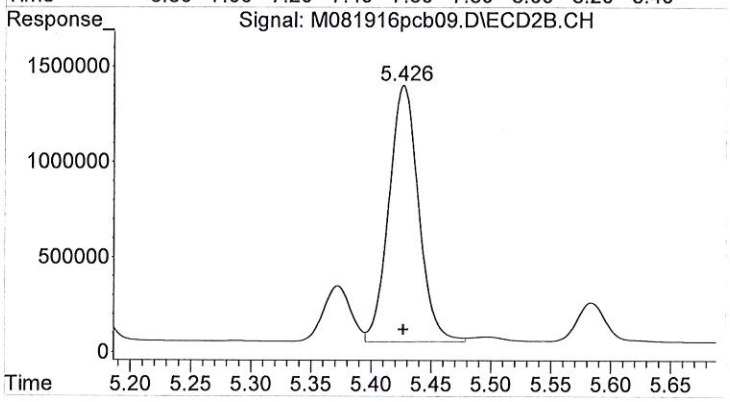
#1 tmx (1)

R.T.: 4.887 min
Delta R.T.: 0.001 min
Response: 8109439
Conc: 239.76 pg/uL



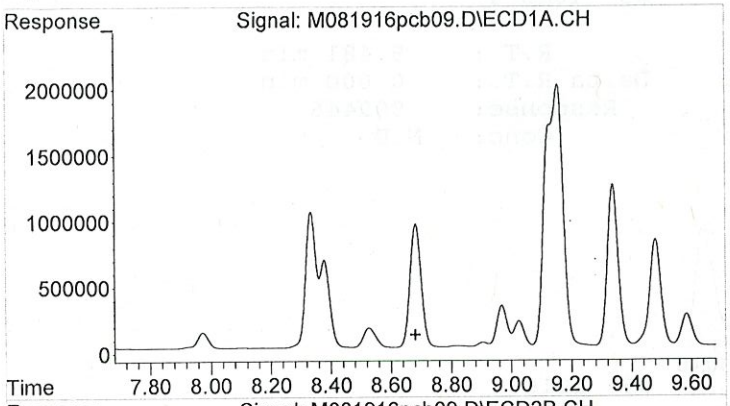
#2 1016 -1

R.T.: 7.615 min
Delta R.T.: 0.000 min
Response: 741573
Conc: N.D.



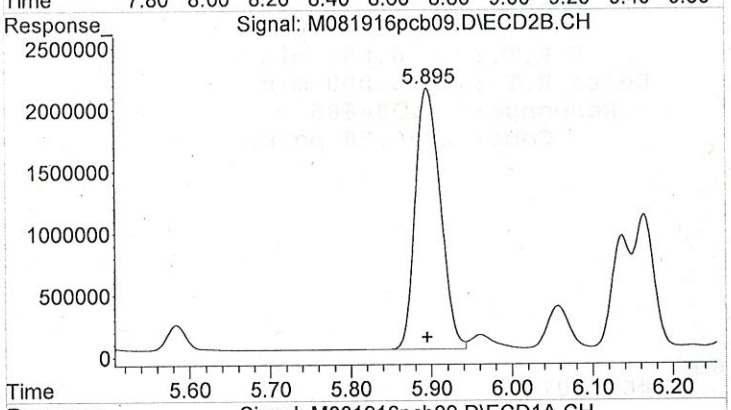
#2 1016 -1

R.T.: 5.427 min
Delta R.T.: 0.000 min
Response: 1344142
Conc: 2010.83 pg/uL



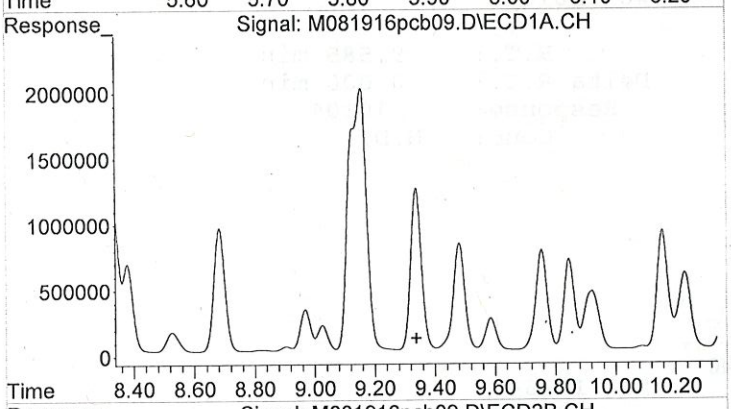
#3 1016-2

R.T.: 8.683 min
Delta R.T.: 0.000 min
Response: 931450
Conc: N.D.



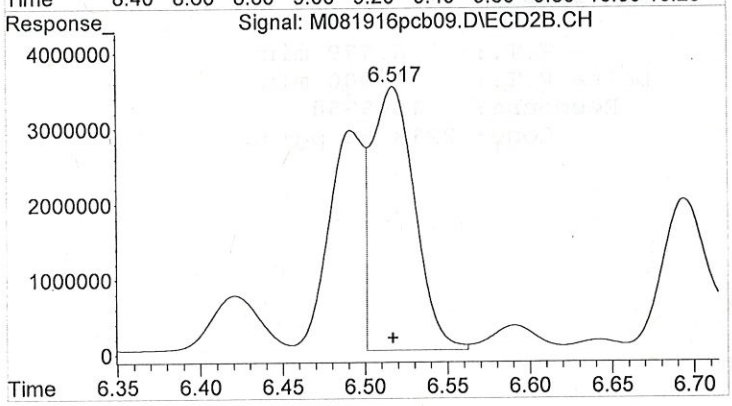
#3 1016-2

R.T.: 5.895 min
Delta R.T.: 0.000 min
Response: 2108307
Conc: 1975.50 pg/uL



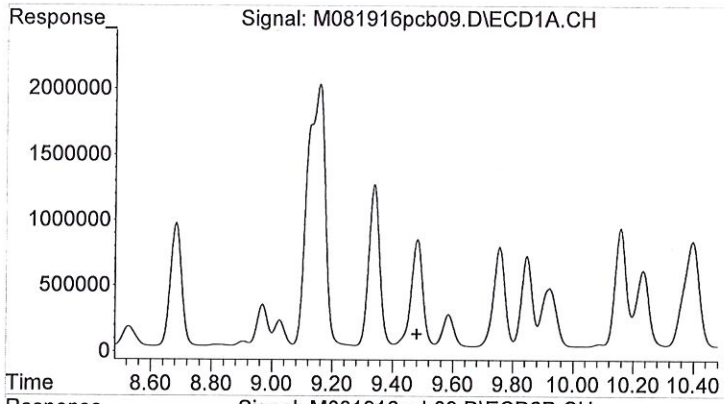
#4 1016-3

R.T.: 9.338 min
Delta R.T.: 0.000 min
Response: 1230391
Conc: N.D.



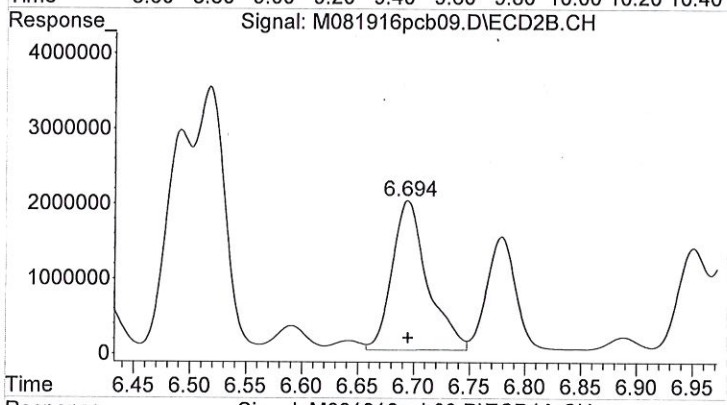
#4 1016-3

R.T.: 6.517 min
Delta R.T.: 0.000 min
Response: 3501184
Conc: 2154.17 pg/uL



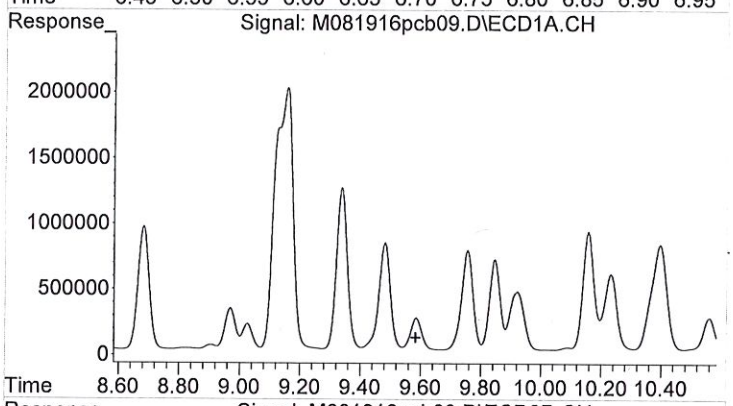
#5 1016-4

R.T.: 9.481 min
Delta R.T.: 0.000 min
Response: 809446
Conc: N.D.



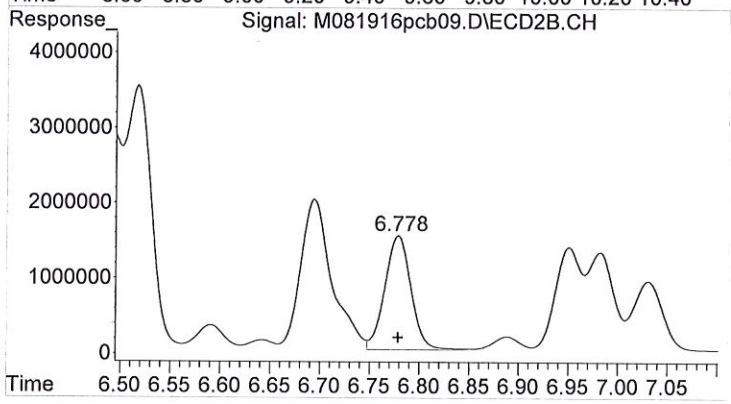
#5 1016-4

R.T.: 6.694 min
Delta R.T.: 0.000 min
Response: 1984686
Conc: 2089.78 pg/uL



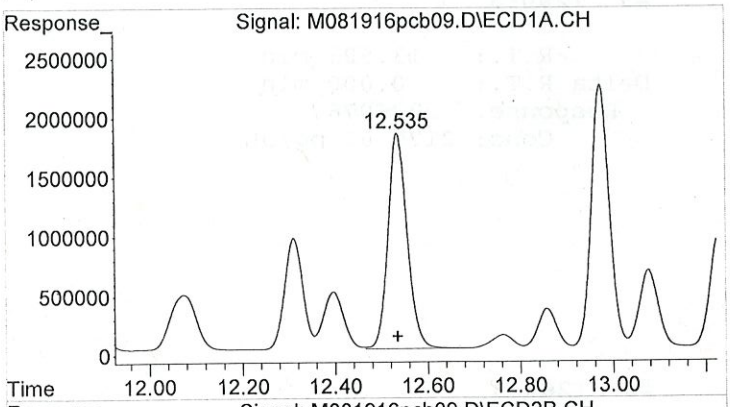
#6 1016-5

R.T.: 9.585 min
Delta R.T.: 0.000 min
Response: 240104
Conc: N.D.



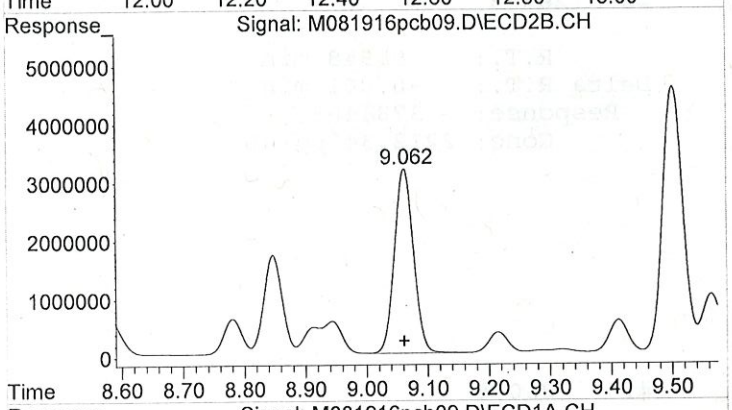
#6 1016-5

R.T.: 6.779 min
Delta R.T.: 0.000 min
Response: 1509758
Conc: 2213.68 pg/uL



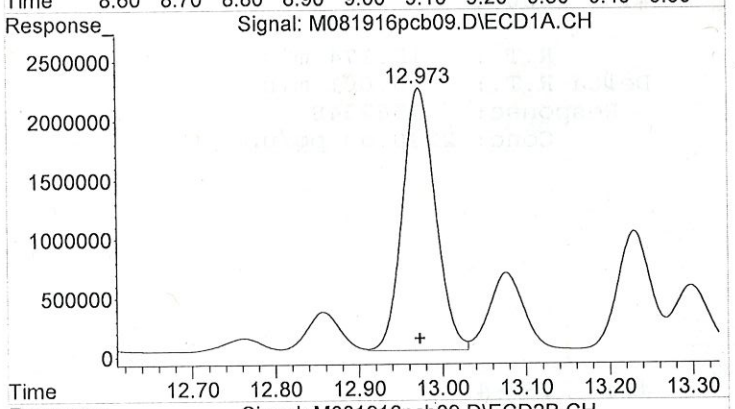
#7 1260-1

R.T.: 12.535 min
Delta R.T.: 0.000 min
Response: 1818638
Conc: 2127.20 pg/uL



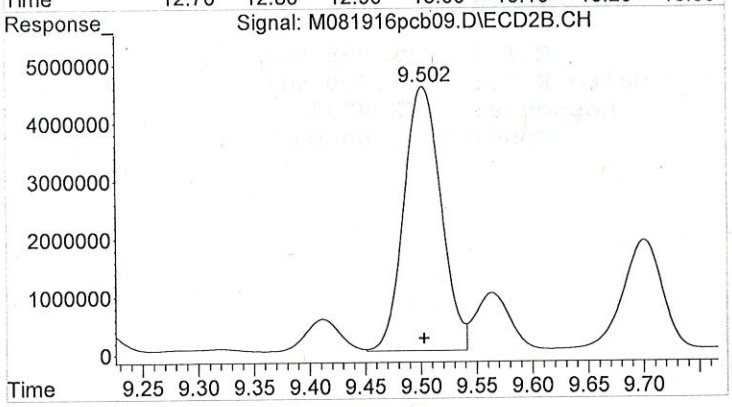
#7 1260-1

R.T.: 9.062 min
Delta R.T.: 0.000 min
Response: 3163042
Conc: 2107.53 pg/uL



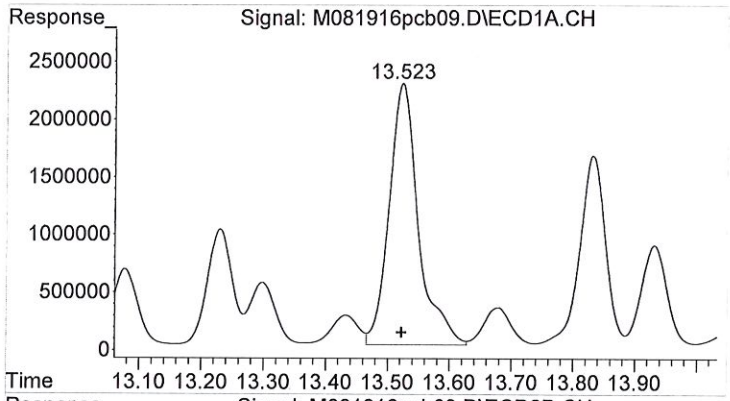
#8 1260-2

R.T.: 12.973 min
Delta R.T.: 0.000 min
Response: 2218902
Conc: 2153.55 pg/uL



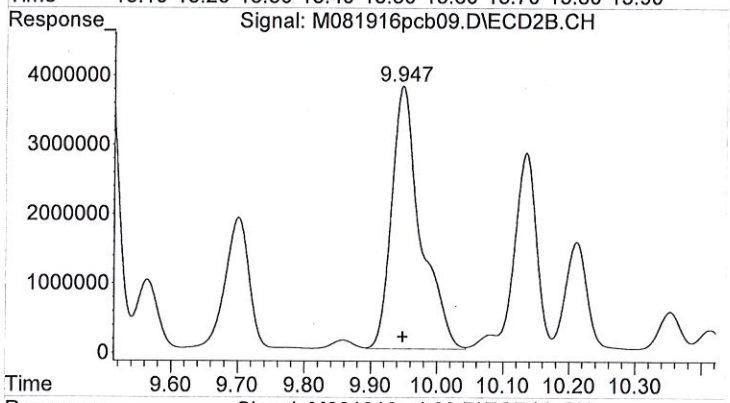
#8 1260-2

R.T.: 9.502 min
Delta R.T.: 0.000 min
Response: 4548735
Conc: 2090.65 pg/uL



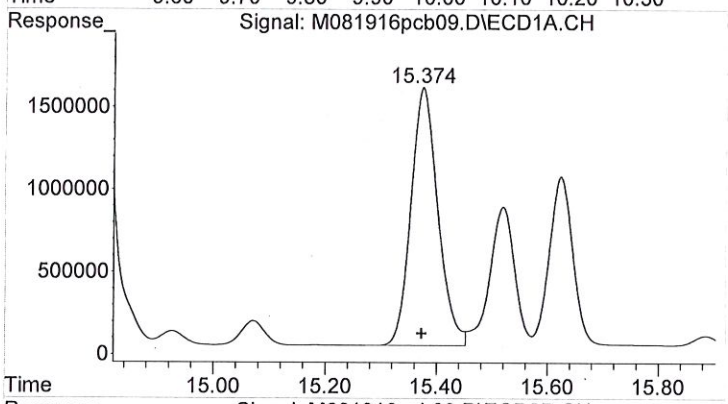
#9 1260-3

R.T.: 13.523 min
Delta R.T.: 0.000 min
Response: 2260767
Conc: 2176.02 pg/uL



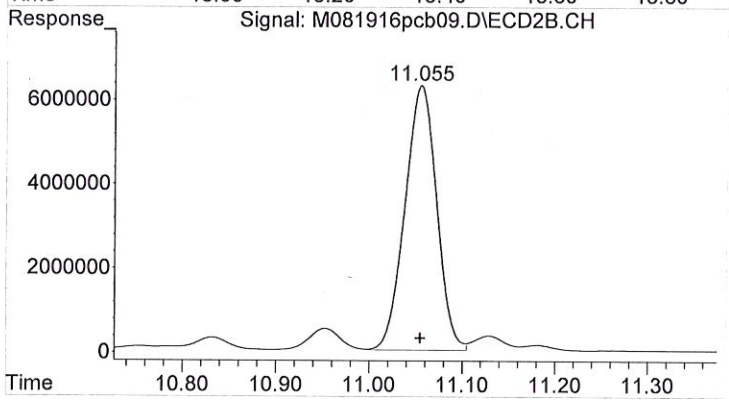
#9 1260-3

R.T.: 9.948 min
Delta R.T.: -0.001 min
Response: 3784408
Conc: 2212.34 pg/uL



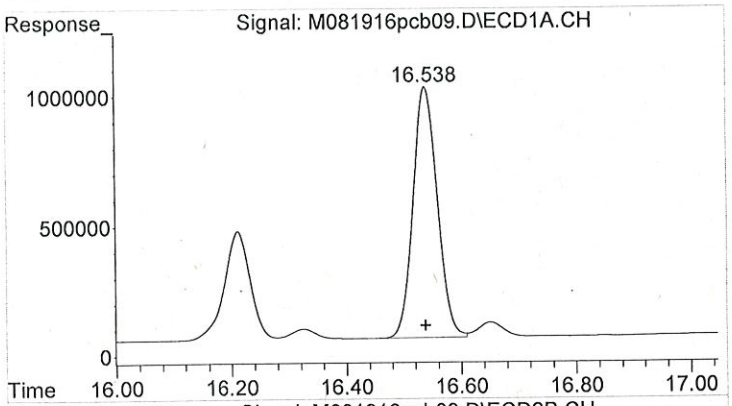
#10 1260-4

R.T.: 15.374 min
Delta R.T.: 0.001 min
Response: 1562548
Conc: 2220.50 pg/uL



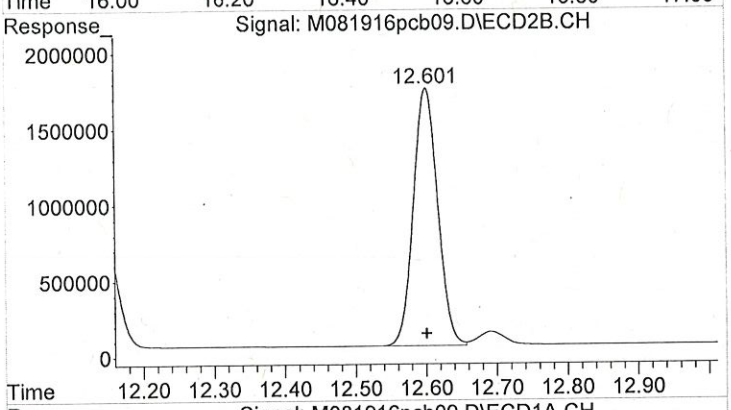
#10 1260-4

R.T.: 11.055 min
Delta R.T.: 0.000 min
Response: 6278733
Conc: 2211.80 pg/uL



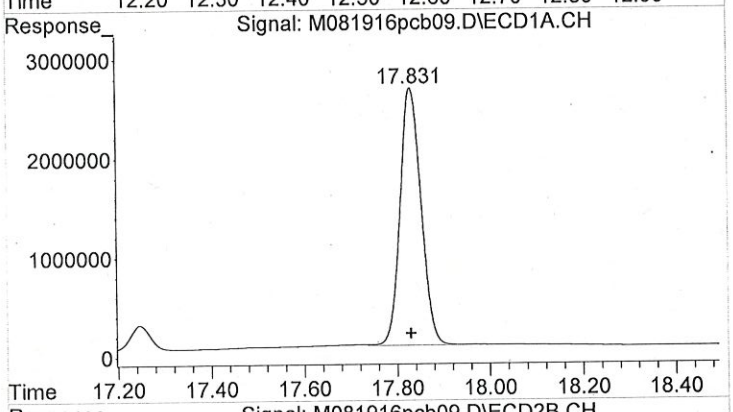
#11 1260-5

R.T.: 16.539 min
Delta R.T.: 0.000 min
Response: 968070
Conc: 2179.06 pg/uL



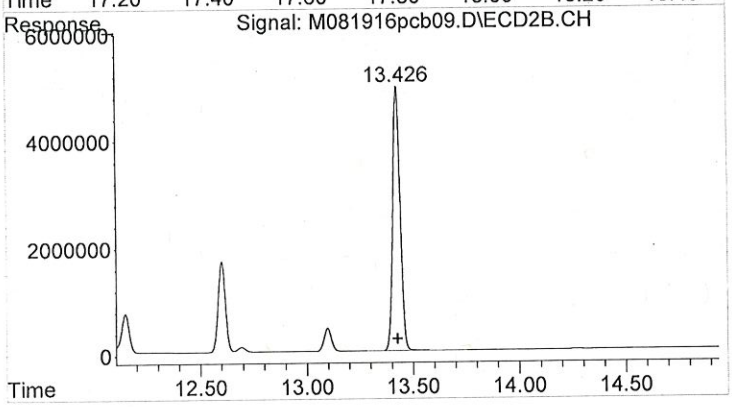
#11 1260-5

R.T.: 12.601 min
Delta R.T.: 0.000 min
Response: 1695783
Conc: 2337.96 pg/uL



#12 dcb

R.T.: 17.831 min
Delta R.T.: 0.000 min
Response: 2592255
Conc: 229.77 pg/uL m



#12 dcb

R.T.: 13.427 min
Delta R.T.: -0.001 min
Response: 4930683
Conc: 233.27 pg/uL

PCB SSV Report

Data File....: M081916pcb13.D
Dataname.....: 87PCB081816I
Analyzed.....: 08/19/2016 14:13

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

SSV Level..: 100 pg/uL
ICAL Date..: 08/19/2016

Datafile path....: J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\M081916pcb13.D
DP Method path...: J:\Organics\Minerva\Methods\M081916PCB1260.M

SSV 1016 100pg/uL

CAS #	Compound	RT	Exp RT	Area		Spike (expected)	Amount (pg)	%Rec	Flag
Surrogate									
	tmx (1)	-	7.00	-	m	10	-	-	
	dcb	-	17.83	-	m	10	-	-	
	tmx (1) #2	-	4.89	-	m	10	-	-	
	dcb #2	-	13.43	-	m	10	-	-	
Target						Criteria range: 70-130%			
	1016 -1	7.63	7.62	40442		100	89.9	90	
	1016-2	8.70	8.68	47541		100	87.5	88	
	1016-3	9.35	9.34	60452		100	86.6	87	
	1016-4	9.50	9.48	39389		100	84.5	84	
	1016-5	9.60	9.58	12805		100	89.0	89	
	1260-1	-	12.54	-		100	-	-	
	1260-2	-	12.97	-		100	-	-	
	1260-3	-	13.52	-	m	100	-	-	
	1260-4	-	15.37	-	m	100	-	-	
	1260-5	-	16.54	-		100	-	-	
	1016 -1 #2	5.42	5.43	67146		100	91.6	92	
	1016-2 #2	5.89	5.89	105705		100	91.3	91	
	1016-3 #2	6.52	6.52	155166		100	90.2	90	
	1016-4 #2	6.69	6.70	90014		100	88.1	88	
	1016-5 #2	6.78	6.78	64121		100	88.4	88	
	1260-1 #2	-	9.06	-		100	-	-	
	1260-2 #2	-	9.50	-		100	-	-	
	1260-3 #2	-	9.95	-	m	100	-	-	
	1260-4 #2	-	11.06	-	m	100	-	-	
	1260-5 #2	-	12.60	-		100	-	-	

Average %Recovery:	%Rec
1016 Column 1 (n=5)	88
1016 Column 2 (n=5)	90
1260 Column 1 (n=5)	0
1260 Column 2 (n=5)	0

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 14:13 pm
Operator : DWOOD
Sample : 87PCB081816I
Misc : SSV 1016 100pg/uL
ALS Vial : 0 (Sig #1); 12 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 14:36:39 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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. d	N.D. d
12) S2 dcb	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) L1 1016 -1	7.628	5.424	40442	67146	89.921	91.567
3) L1 1016-2	8.696	5.893	47541	105705	87.545	91.251
4) L1 1016-3	9.353	6.515	60452	155166	86.557	90.219
5) L1 1016-4	9.496	6.693	39389	90014	84.454	88.127
6) L1 1016-5	9.600	6.777	12805	64121	89.031	88.356
Sum 1016 -1			200630	482152	437.508	449.521
Average 1016 -1					87.502	89.904
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
10) L2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
11) L2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

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

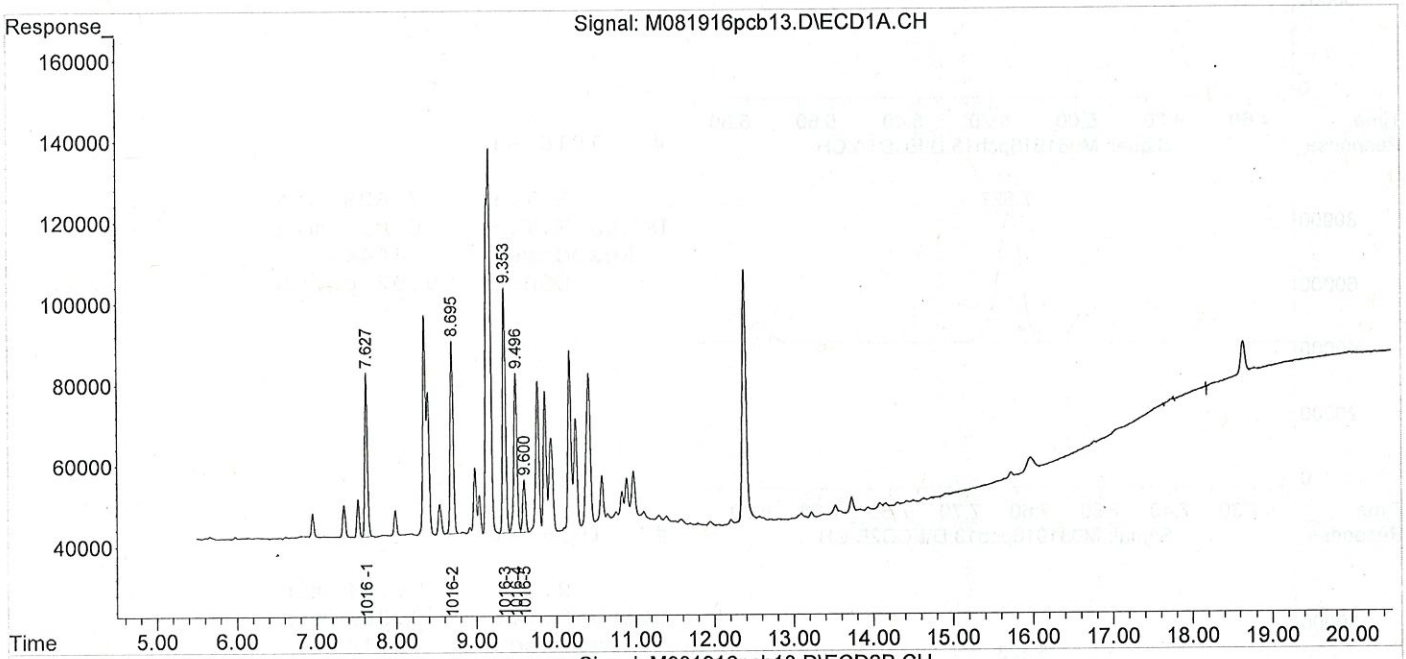
lw
8/19/16

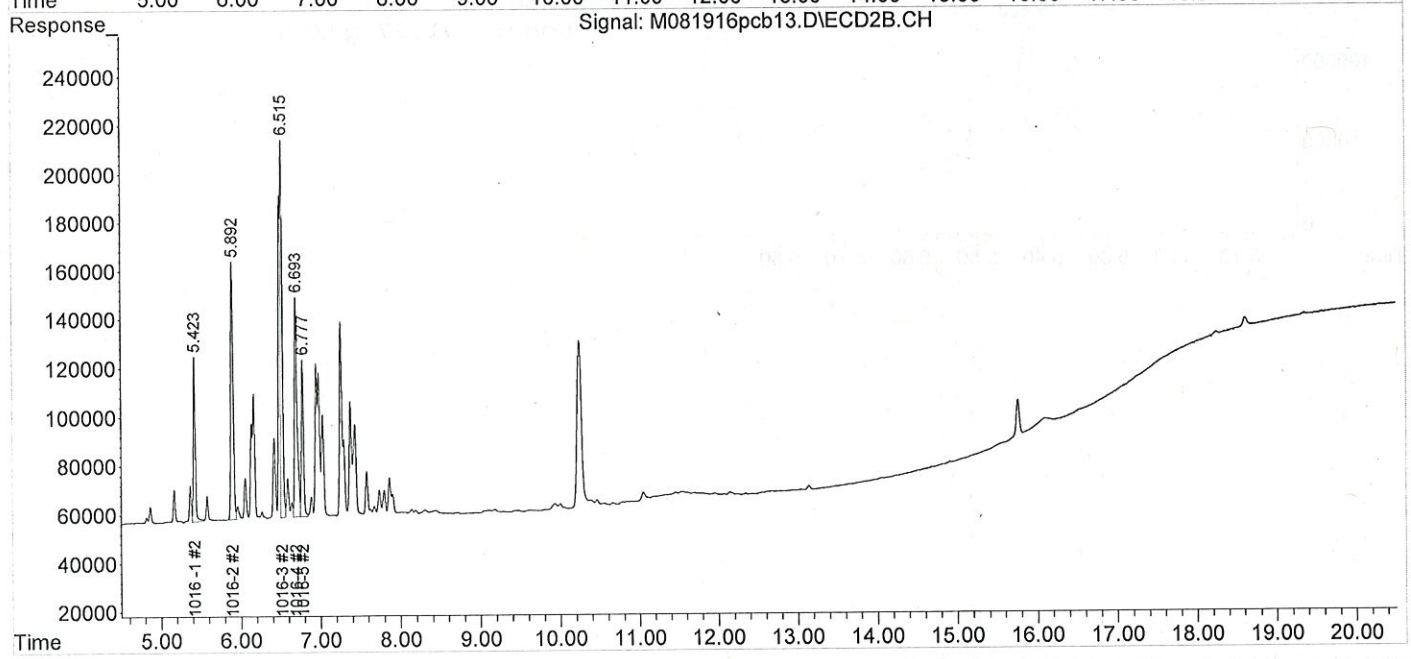
Quantitation Report (QT Reviewed)

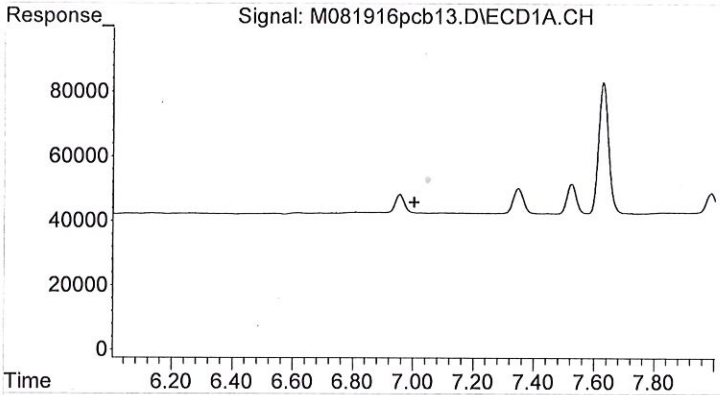
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 14:13 pm
Operator : DWOOD
Sample : 87PCB081816I
Misc : SSV 1016 100pg/uL
ALS Vial : 0 (Sig #1); 12 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 14:36:39 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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

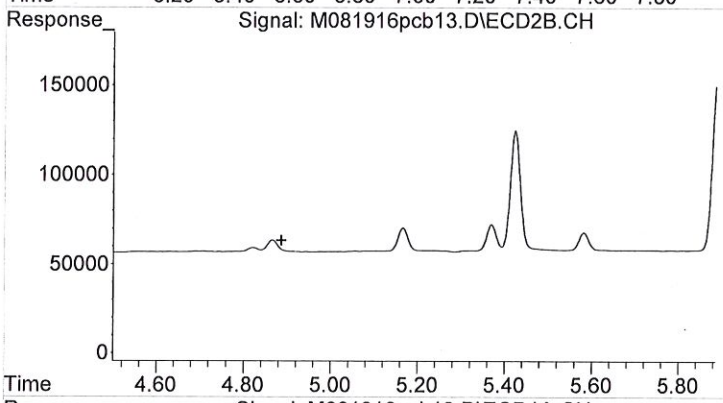






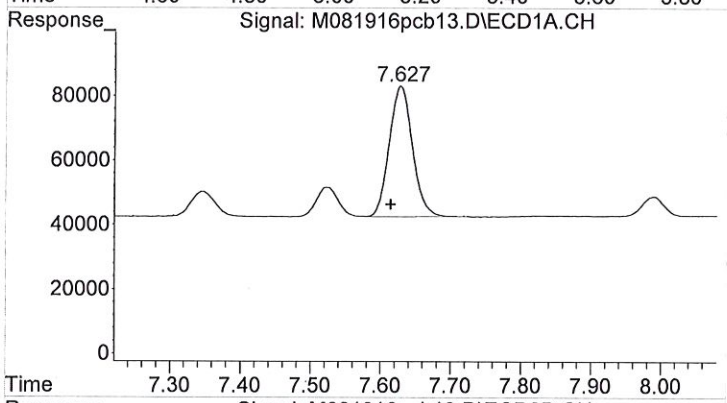
#1 tmx (1)

R.T.: 0.000 min
Exp R.T. : 7.003 min
Response: 0
Conc: N.D.



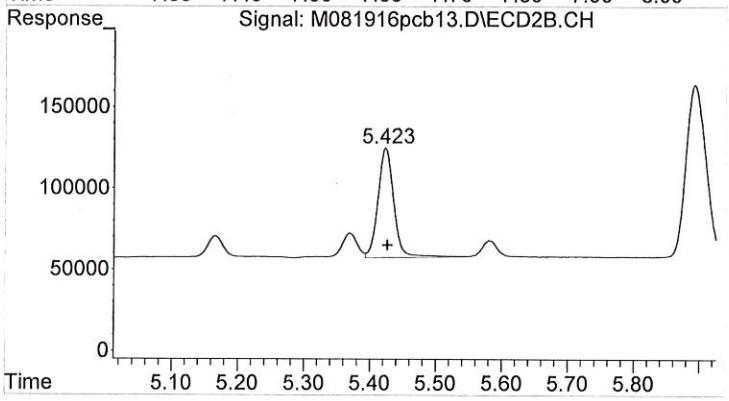
#1 tmx (1)

R.T.: 0.000 min
Exp R.T. : 4.886 min
Response: 0
Conc: N.D.



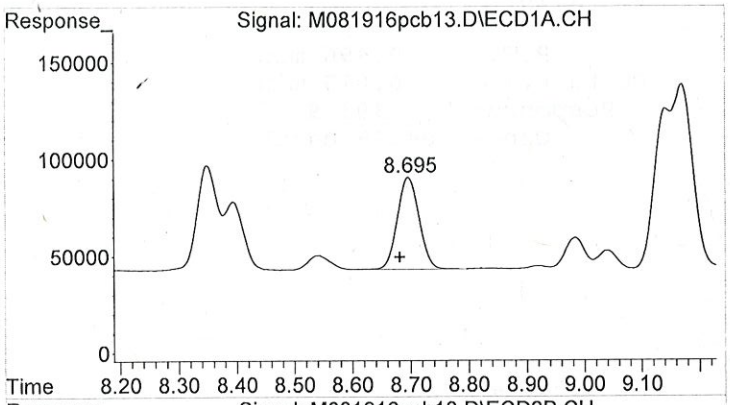
#2 1016 -1

R.T.: 7.628 min
Delta R.T.: 0.013 min
Response: 40442
Conc: 89.92 pg/uL



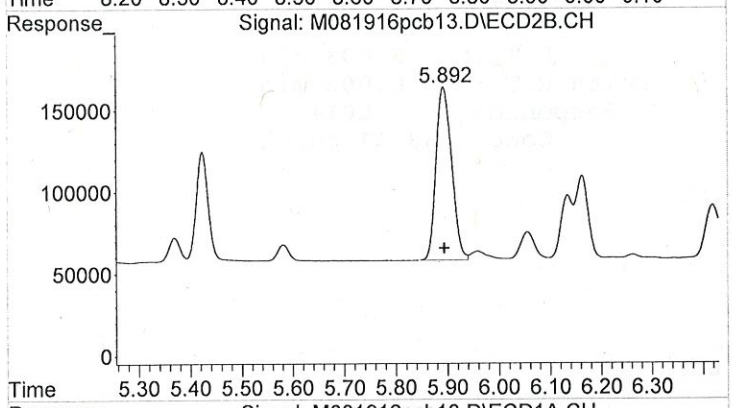
#2 1016 -1

R.T.: 5.424 min
Delta R.T.: -0.003 min
Response: 67146
Conc: 91.57 pg/uL



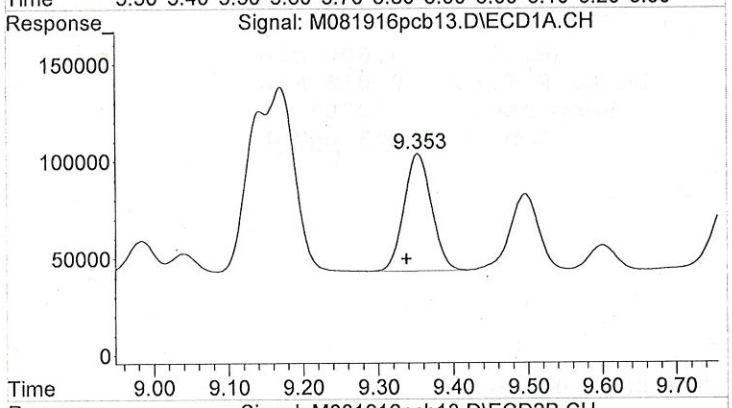
#3 1016-2

R.T.: 8.696 min
Delta R.T.: 0.014 min
Response: 47541
Conc: 87.54 pg/uL



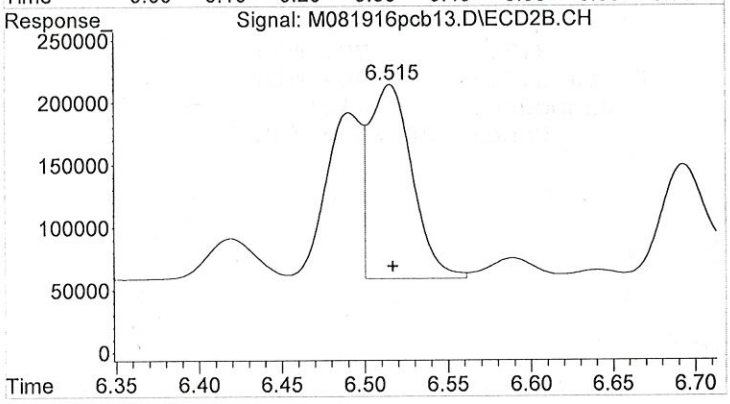
#3 1016-2

R.T.: 5.893 min
Delta R.T.: -0.002 min
Response: 105705
Conc: 91.25 pg/uL



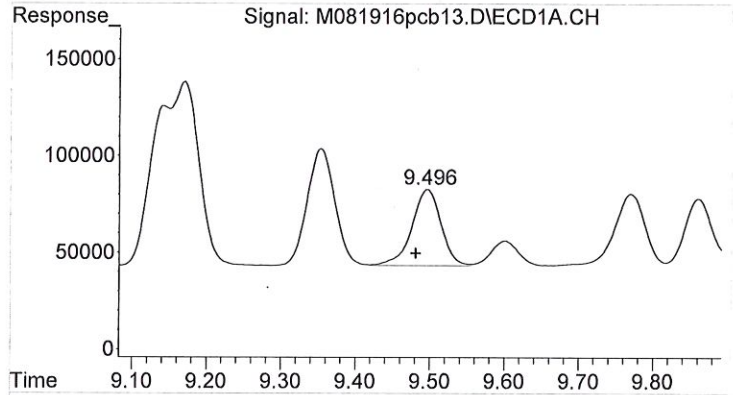
#4 1016-3

R.T.: 9.353 min
Delta R.T.: 0.015 min
Response: 60452
Conc: 86.56 pg/uL



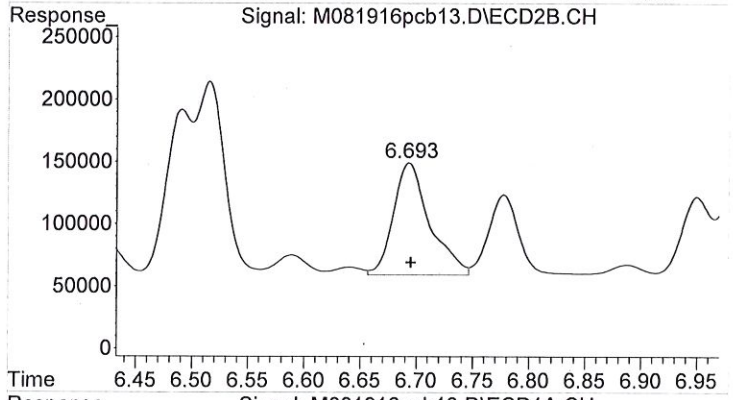
#4 1016-3

R.T.: 6.515 min
Delta R.T.: -0.002 min
Response: 155166
Conc: 90.22 pg/uL



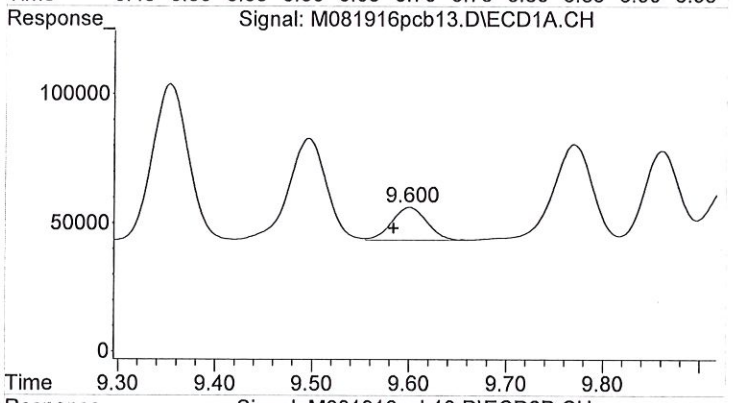
#5 1016-4

R.T.: 9.496 min
Delta R.T.: 0.015 min
Response: 39389
Conc: 84.45 pg/uL



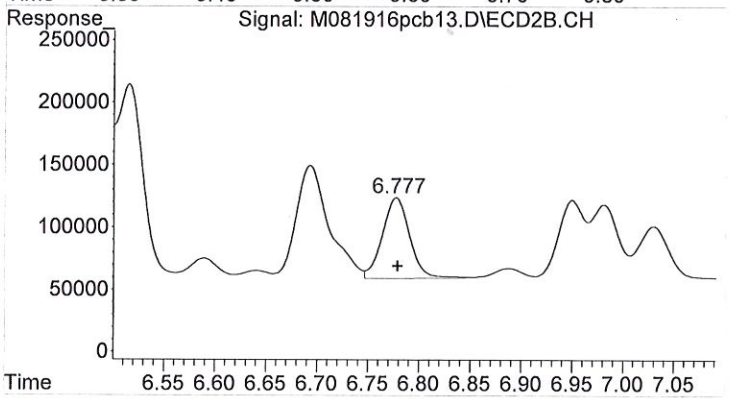
#5 1016-4

R.T.: 6.693 min
Delta R.T.: -0.002 min
Response: 90014
Conc: 88.13 pg/uL



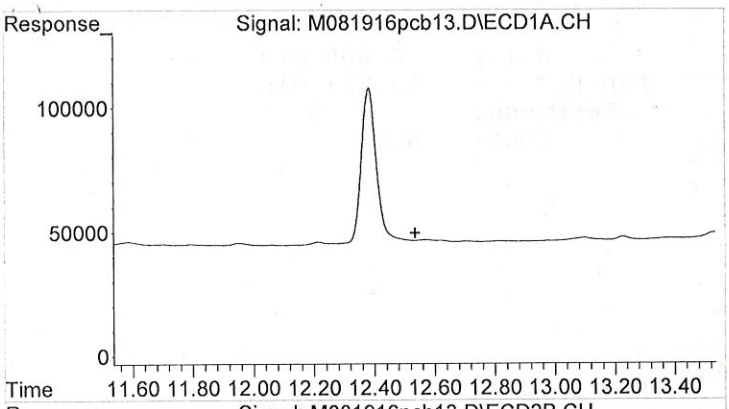
#6 1016-5

R.T.: 9.600 min
Delta R.T.: 0.016 min
Response: 12805
Conc: 89.03 pg/uL



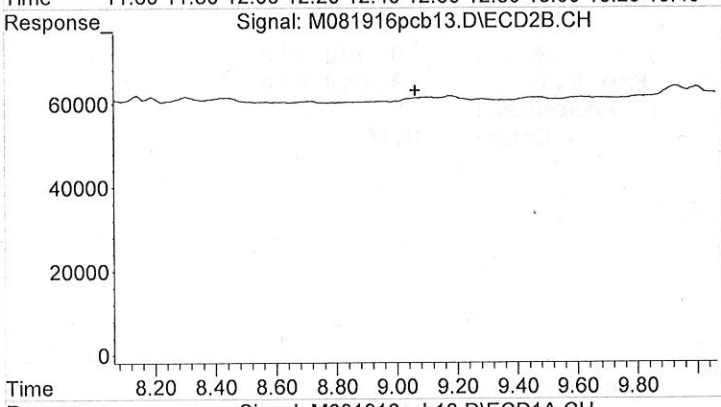
#6 1016-5

R.T.: 6.777 min
Delta R.T.: -0.002 min
Response: 64121
Conc: 88.36 pg/uL



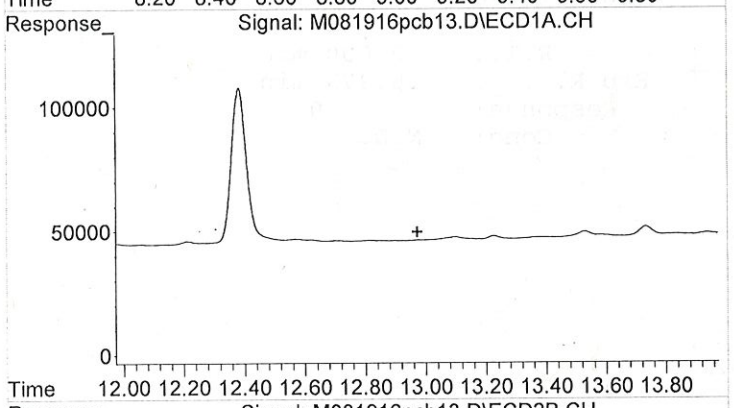
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.536 min
Response: 0
Conc: N.D.



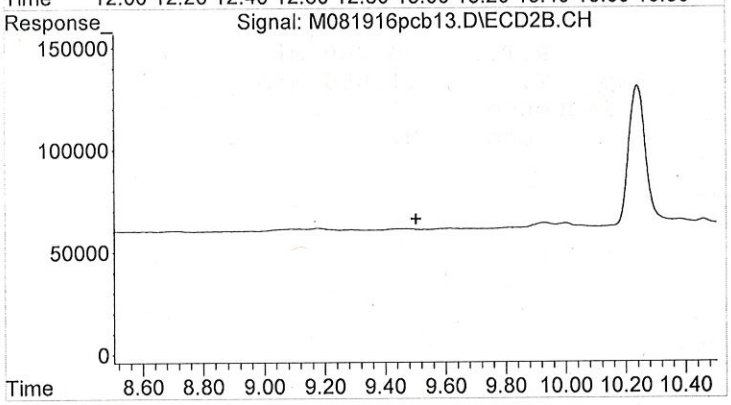
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 9.062 min
Response: 0
Conc: N.D.



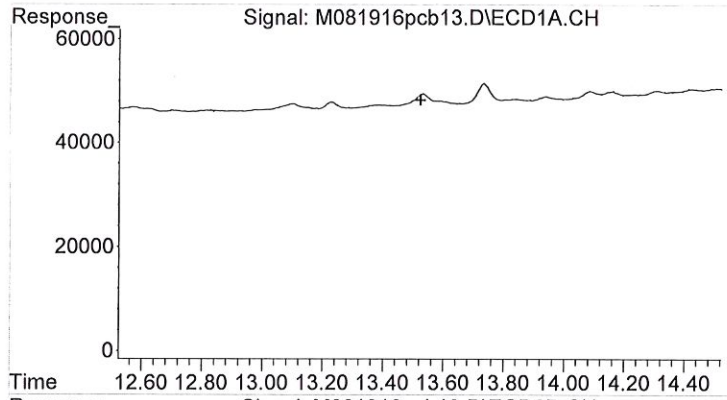
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 12.973 min
Response: 0
Conc: N.D.



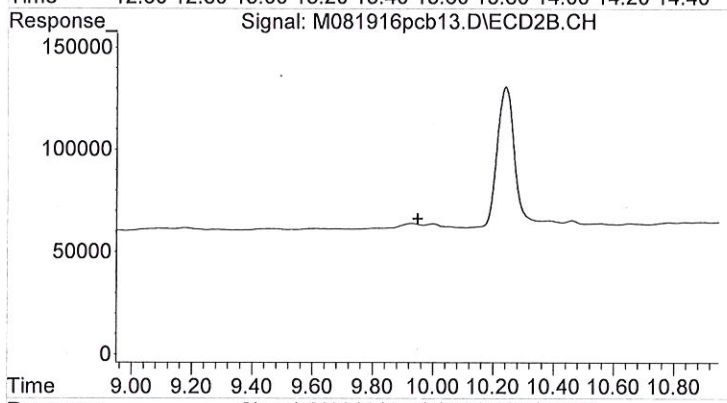
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.503 min
Response: 0
Conc: N.D.



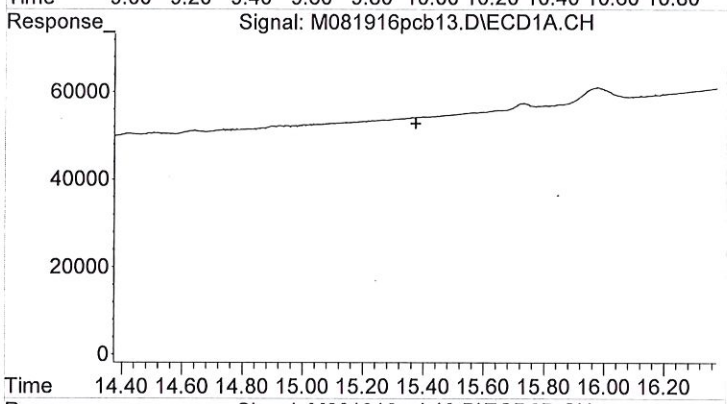
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.523 min
Response: 0
Conc: N.D.



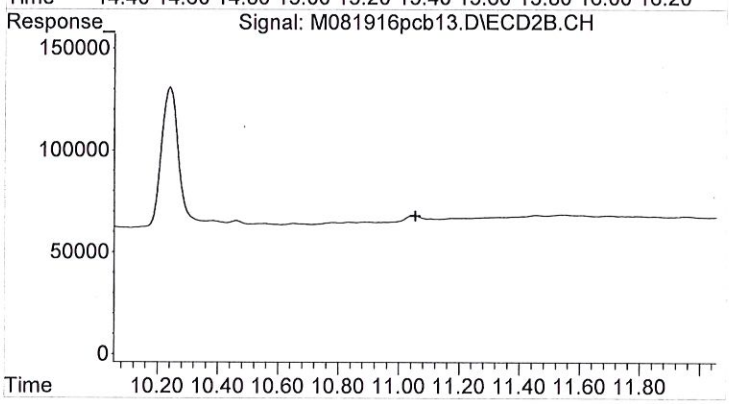
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 9.949 min
Response: 0
Conc: N.D.



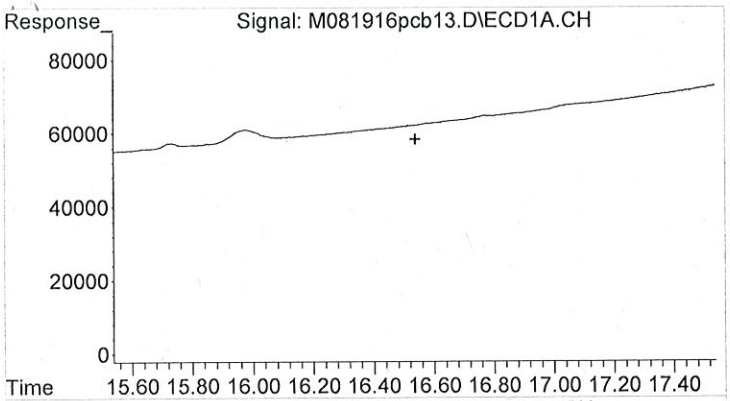
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.373 min
Response: 0
Conc: N.D.



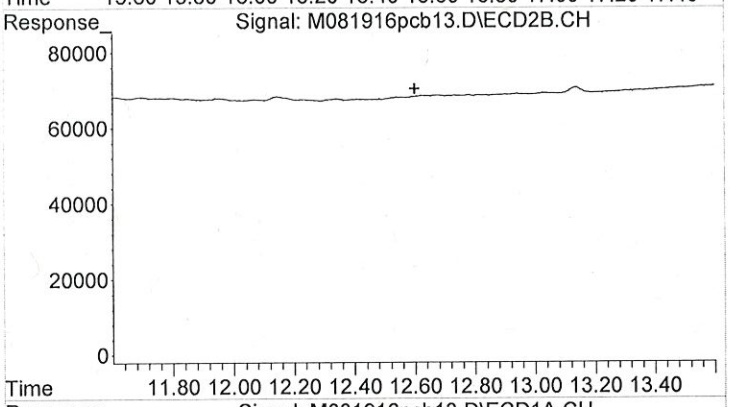
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 11.055 min
Response: 0
Conc: N.D.



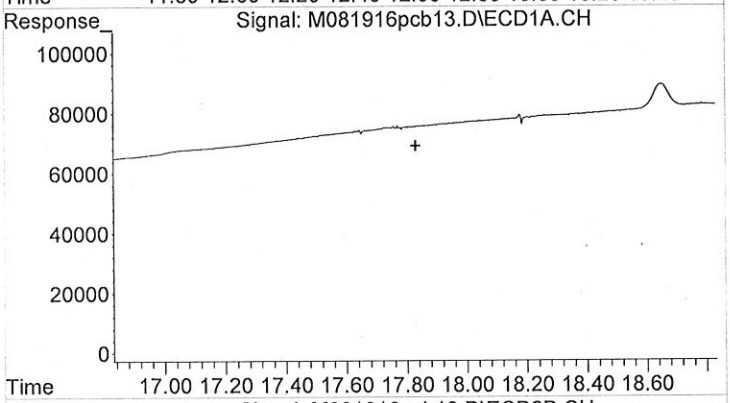
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.538 min
Response: 0
Conc: N.D.



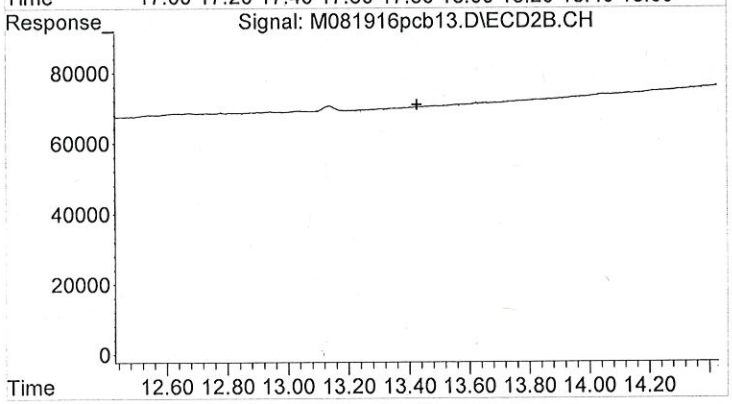
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.601 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 0.000 min
Exp R.T. : 17.830 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 0.000 min
Exp R.T. : 13.428 min
Response: 0
Conc: N.D.

PCB SSV Report

Data File....: M081916pcb14.D
Dataname.....: 87PCB081816K
Analyzed.....: 08/19/2016 14:38

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

SSV Level..: 100 pg/uL
ICAL Date..: 08/19/2016

Datafile path....: J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\M081916pcb14.D
DP Method path...: J:\Organics\Minerva\Methods\M081916PCB1260.M

SSV 1260 100pg/uL

CAS #	Compound	RT	Exp RT	Area		Spike (expected)	Amount (pg)	%Rec	Flag
Surrogate									
	tmx (1)	-	7.00	-		10	-	-	
	dcb	-	17.83	-	m	10	-	-	
	tmx (1) #2	-	4.89	-		10	-	-	
	dcb #2	-	13.43	-	m	10	-	-	
Target						Criteria range: 70-130%			
	1016 -1	-	7.62	-	m	100	-	-	
	1016-2	-	8.68	-	m	100	-	-	
	1016-3	-	9.34	-	m	100	-	-	
	1016-4	-	9.48	-	m	100	-	-	
	1016-5	-	9.58	-		100	-	-	
	1260-1	12.54	12.54	92548		100	96.1	96	
	1260-2	12.97	12.97	111244		100	97.4	97	
	1260-3	13.52	13.52	107990		100	94.5	94	
	1260-4	15.37	15.37	78334		100	103	103	
	1260-5	16.54	16.54	44770		100	94.1	94	
	1016 -1 #2	-	5.43	-	m	100	-	-	
	1016-2 #2	-	5.89	-	m	100	-	-	
	1016-3 #2	-	6.52	-	m	100	-	-	
	1016-4 #2	-	6.70	-	m	100	-	-	
	1016-5 #2	-	6.78	-		100	-	-	
	1260-1 #2	9.06	9.06	155213		100	96.6	97	
	1260-2 #2	9.50	9.50	217648		100	94.1	94	
	1260-3 #2	9.95	9.95	167282		100	93.9	94	
	1260-4 #2	11.05	11.06	285105		100	97.5	97	
	1260-5 #2	12.60	12.60	69827		100	93.7	94	

Average %Recovery:	%Rec
1016 Column 1 (n=5)	0
1016 Column 2 (n=5)	0
1260 Column 1 (n=5)	97
1260 Column 2 (n=5)	95

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 14:38 pm
Operator : DWOOD
Sample : 87PCB081816K
Misc : SSV 1260 100pg/uL
ALS Vial : 0 (Sig #1); 13 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 15:01:12 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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
System Monitoring Compounds						
1) S2 tmx (1)	0.000	0.000	0	0	N.D.	N.D.
12) S2 dcb	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
4) L1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
5) L1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	12.537	9.062	92548	155213	96.085	96.639
8) L2 1260-2	12.975	9.502	111244	217648	97.408	94.123
9) L2 1260-3	13.525	9.948	107990	167282	94.491	93.914
10) L2 1260-4	15.374	11.055	78334	285105	102.740	97.497
11) L2 1260-5	16.539	12.600	44770	69827	94.147	93.733
Sum 1260-1			434887	895075	484.871	475.907
Average 1260-1					96.974	95.181

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

uw
8/19/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 14:38 pm
Operator : DWOOD
Sample : 87PCB081816K
Misc : SSV 1260 100pg/uL
ALS Vial : 0 (Sig #1); 13 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 15:00:09 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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.
12) S2 dcb	0.000	13.431	0	~~233~~	N.D.	N.D.
Target Compounds						
2) L1 1016 -1	0.000	5.426	0	~~1781~~	N.D.	N.D.
3) L1 1016-2	0.000	5.894	0	~~2283~~	N.D.	N.D.
4) L1 1016-3	0.000	6.517	0	~~2897~~	N.D.	N.D.
5) L1 1016-4	0.000	6.695	0	~~1775~~	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	12.537	9.062	92548	155213	96.085	96.639
8) L2 1260-2	12.975	9.502	111244	217648	97.408	94.123
9) L2 1260-3	13.525	9.948	107990	167282	94.491	93.914
10) L2 1260-4	15.374	11.055	78334	285105	102.740	97.497
11) L2 1260-5	16.539	12.600	44770	69827	94.147	93.733
Sum 1260-1			434887	895075	484.871	475.907
Average 1260-1					96.974	95.181

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

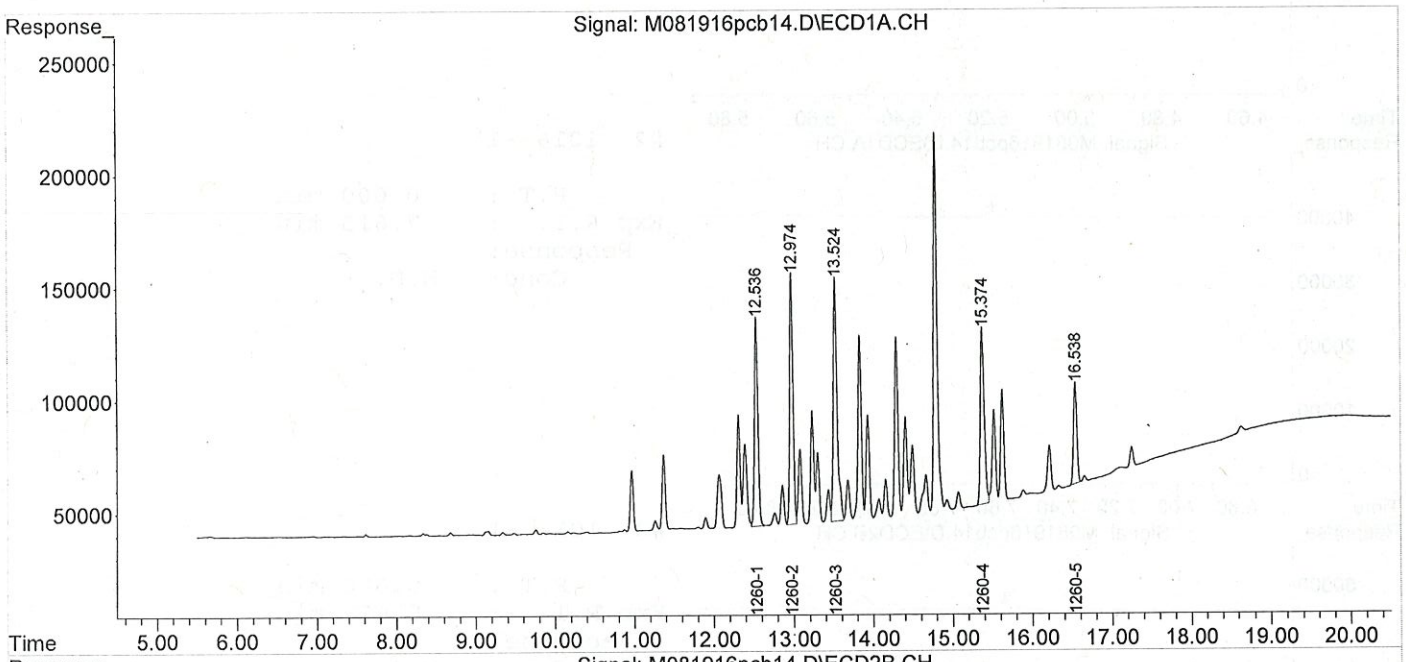
8/19/16

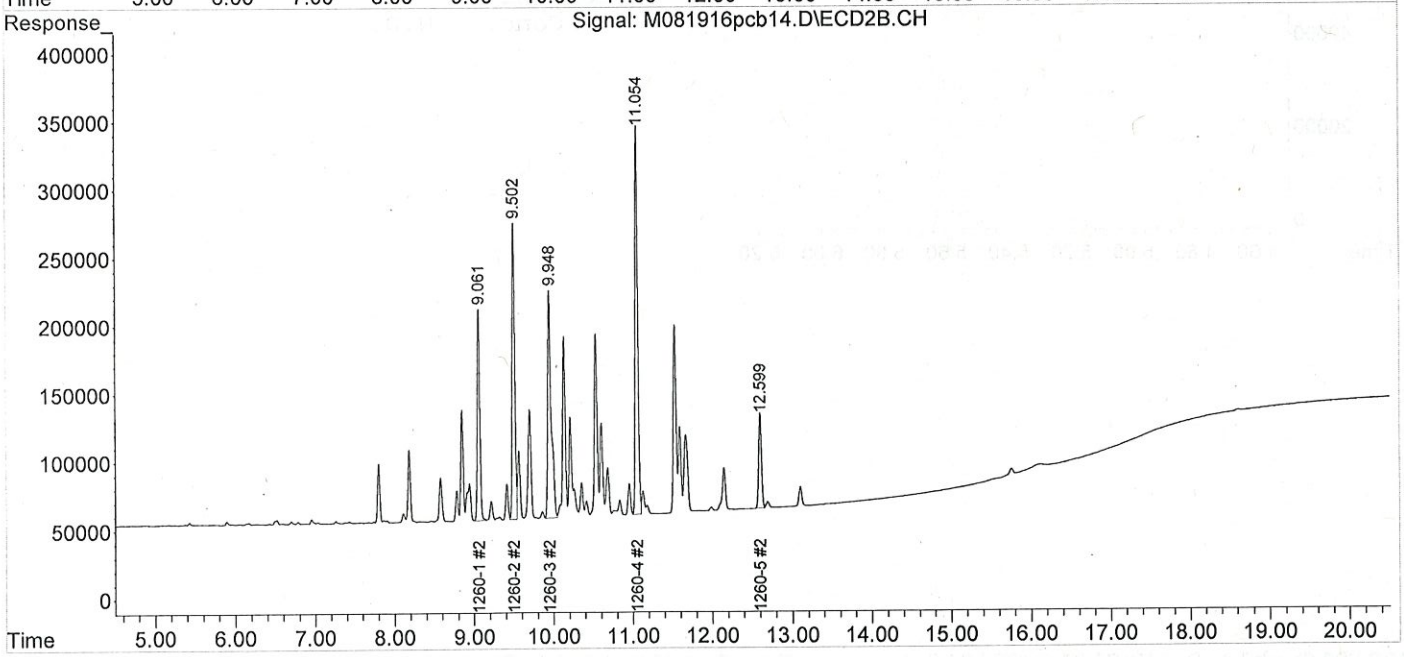
Quantitation Report (QT Reviewed)

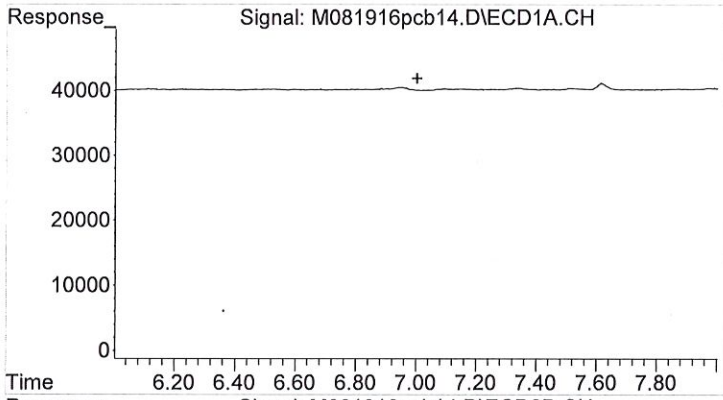
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\
Data File : M081916pcb14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Aug 2016 14:38 pm
Operator : DWOOD
Sample : 87PCB081816K
Misc : SSV 1260 100pg/uL
ALS Vial : 0 (Sig #1); 13 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 15:01:12 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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

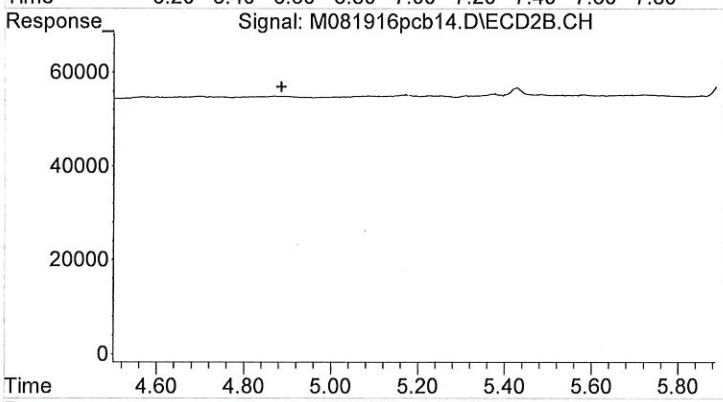






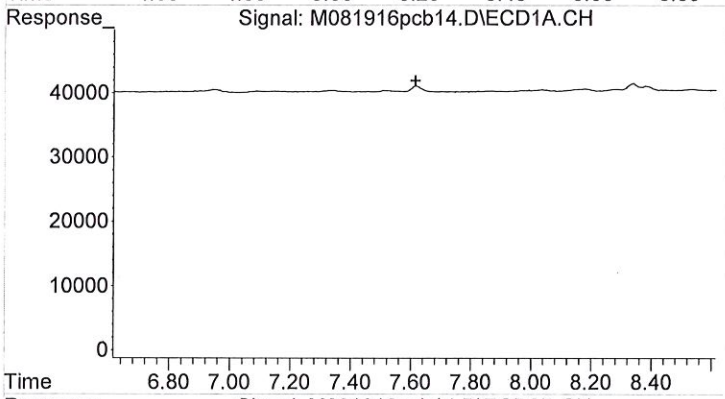
#1 tmx (1)

R.T.: 0.000 min
Exp R.T. : 7.003 min
Response: 0
Conc: N.D.



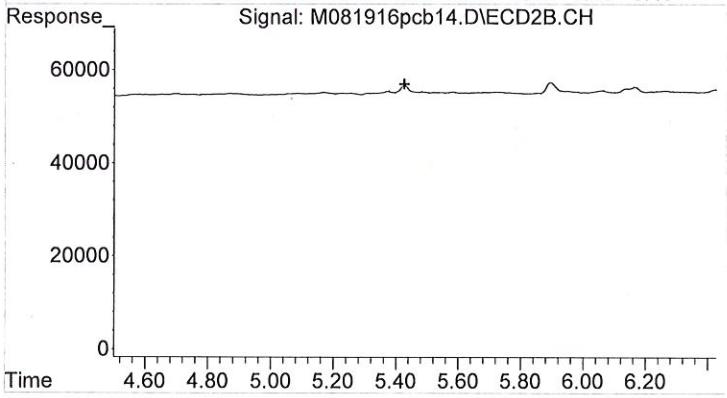
#1 tmx (1)

R.T.: 0.000 min
Exp R.T. : 4.886 min
Response: 0
Conc: N.D.



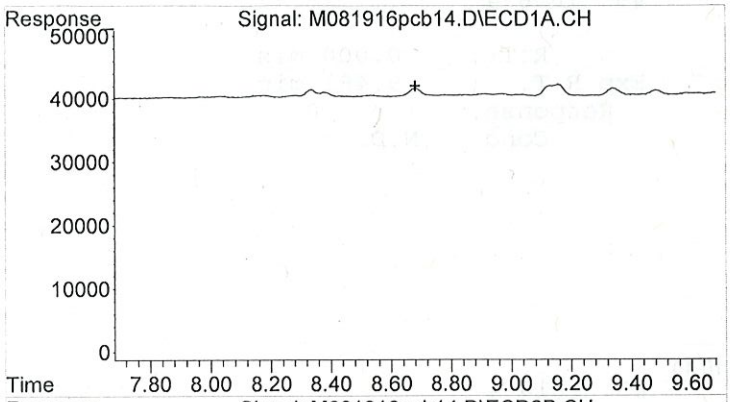
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.615 min
Response: 0
Conc: N.D.



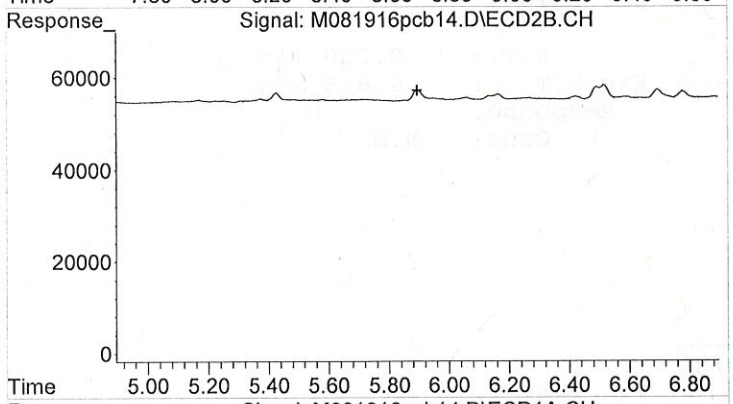
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.427 min
Response: 0
Conc: N.D.



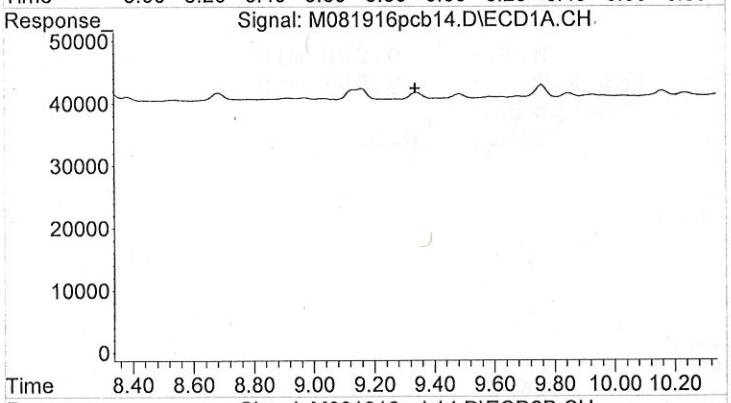
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.682 min
Response: 0
Conc: N.D.



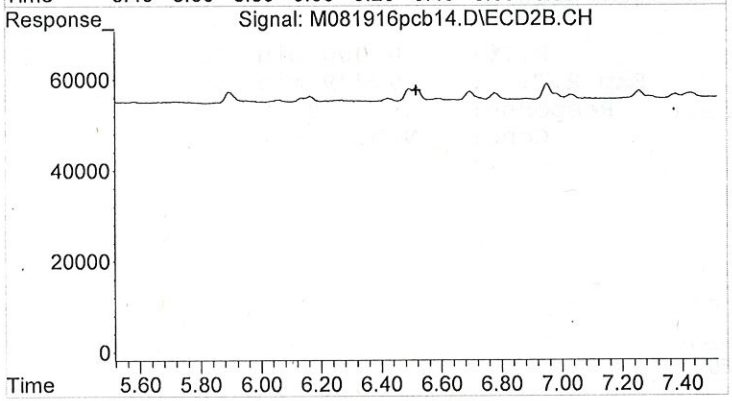
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.895 min
Response: 0
Conc: N.D.



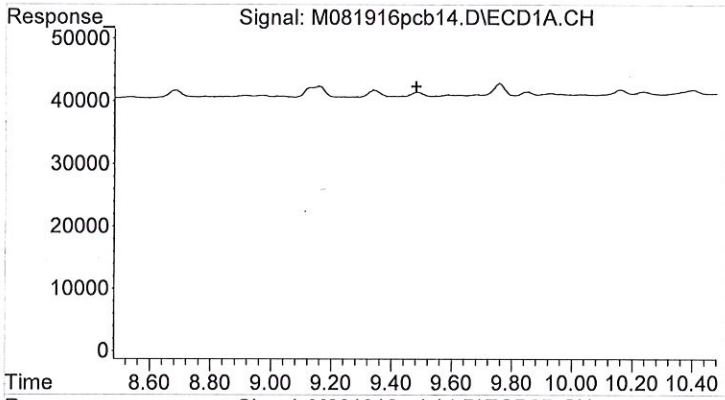
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.338 min
Response: 0
Conc: N.D.



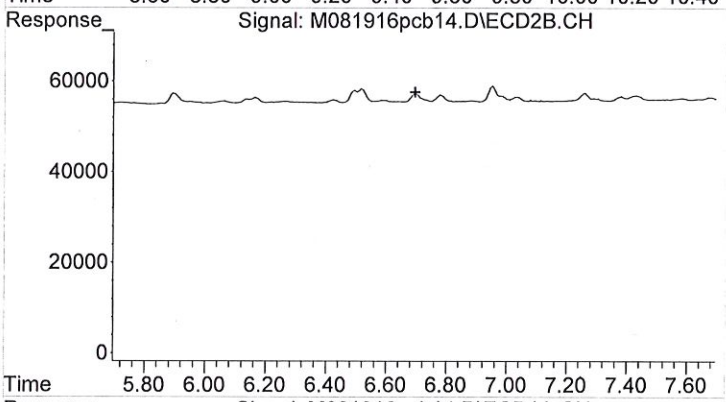
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.517 min
Response: 0
Conc: N.D.



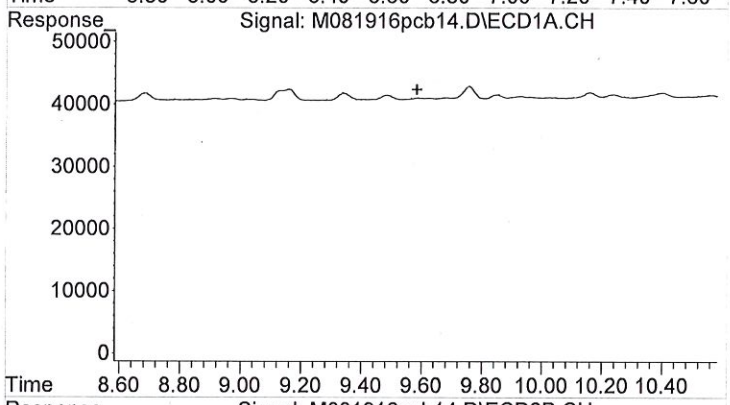
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.481 min
Response: 0
Conc: N.D.



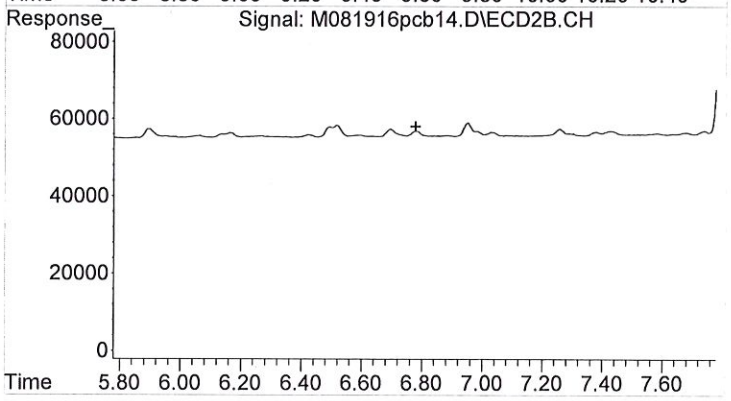
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.695 min
Response: 0
Conc: N.D.



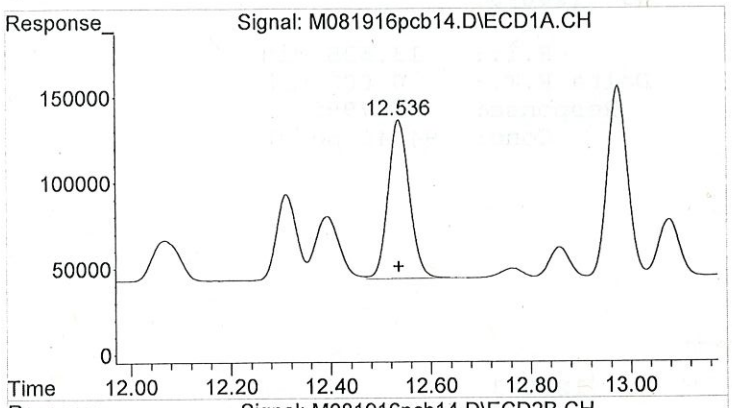
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.584 min
Response: 0
Conc: N.D.



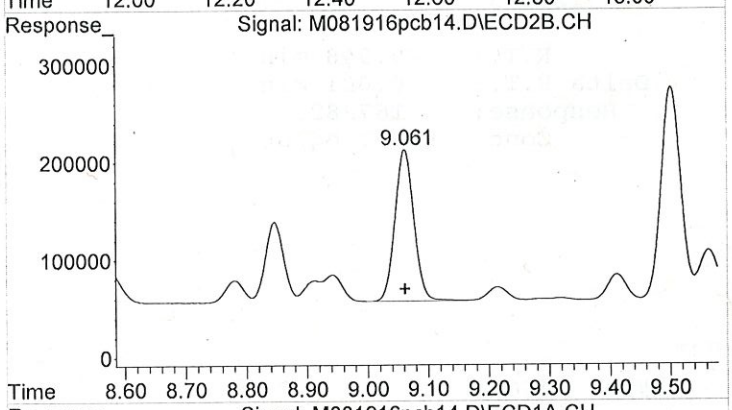
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.779 min
Response: 0
Conc: N.D.



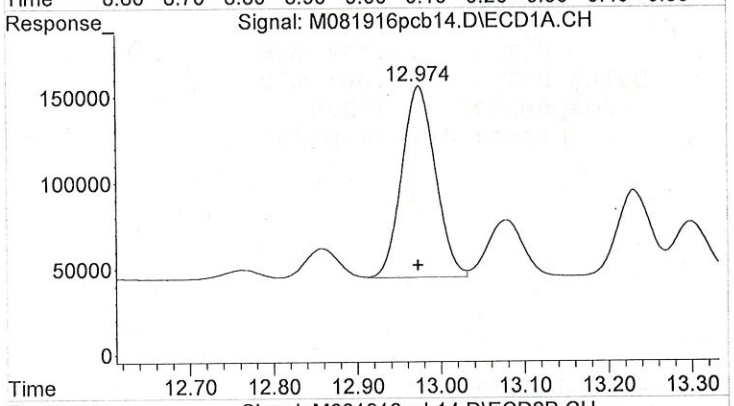
#7 1260-1

R.T.: 12.537 min
Delta R.T.: 0.000 min
Response: 92548
Conc: 96.09 pg/uL



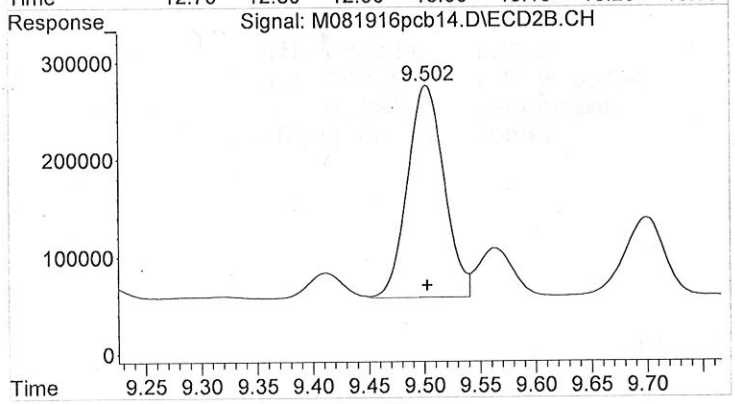
#7 1260-1

R.T.: 9.062 min
Delta R.T.: 0.000 min
Response: 155213
Conc: 96.64 pg/uL



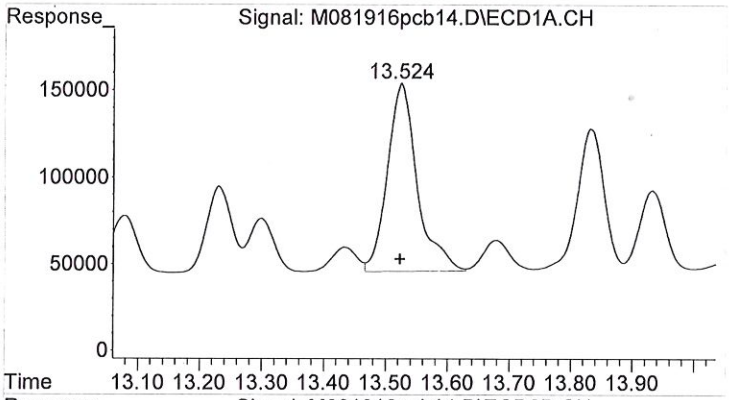
#8 1260-2

R.T.: 12.975 min
Delta R.T.: 0.002 min
Response: 111244
Conc: 97.41 pg/uL



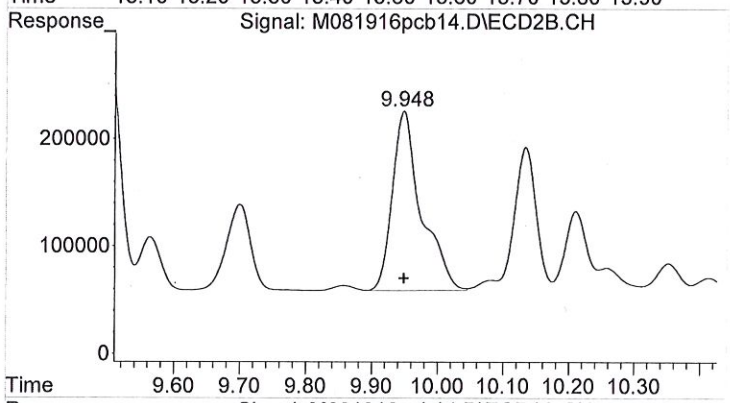
#8 1260-2

R.T.: 9.502 min
Delta R.T.: 0.000 min
Response: 217648
Conc: 94.12 pg/uL



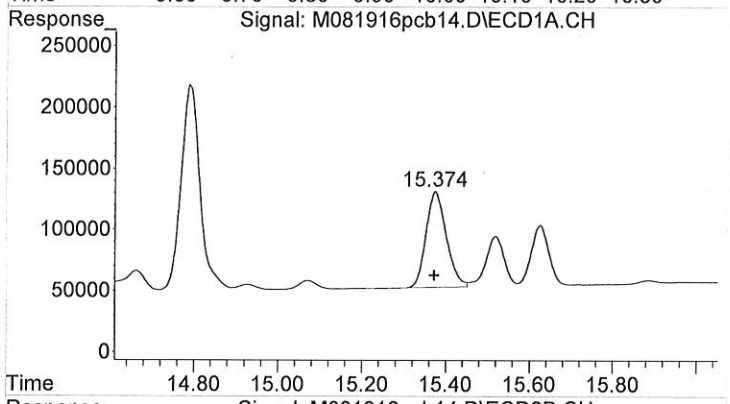
#9 1260-3

R.T.: 13.525 min
Delta R.T.: 0.002 min
Response: 107990
Conc: 94.49 pg/uL



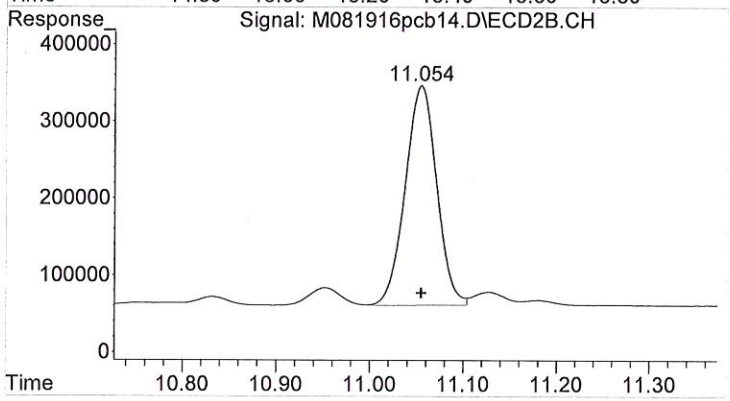
#9 1260-3

R.T.: 9.948 min
Delta R.T.: -0.001 min
Response: 167282
Conc: 93.91 pg/uL



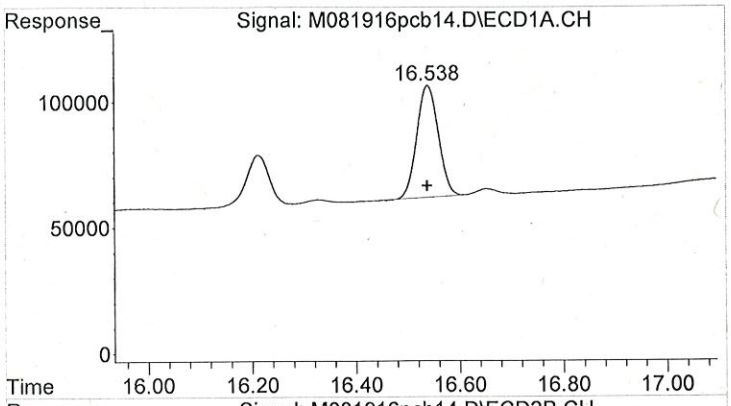
#10 1260-4

R.T.: 15.374 min
Delta R.T.: 0.001 min
Response: 78334
Conc: 102.74 pg/uL



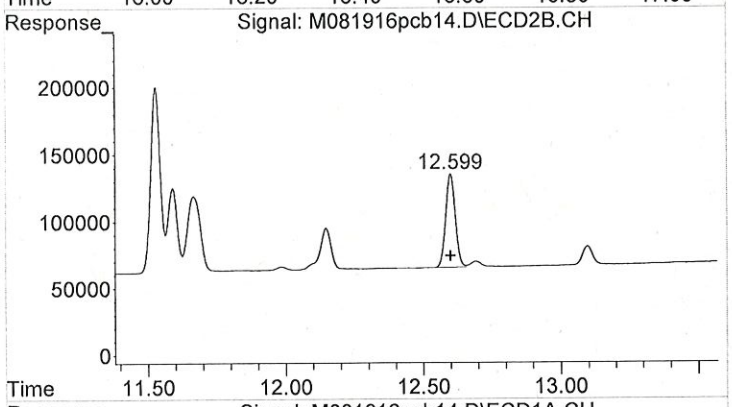
#10 1260-4

R.T.: 11.055 min
Delta R.T.: 0.000 min
Response: 285105
Conc: 97.50 pg/uL



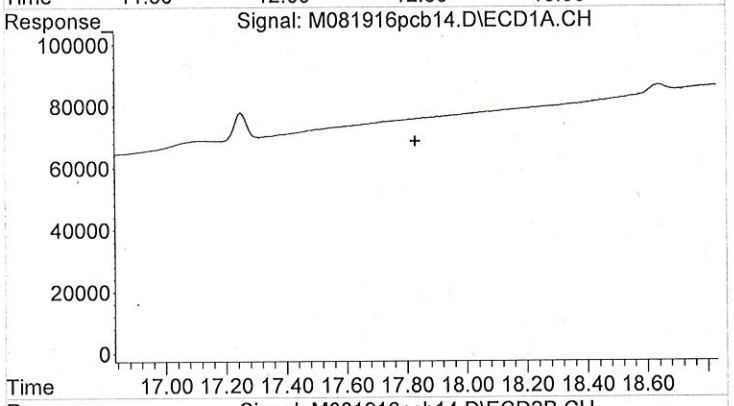
#11 1260-5

R.T.: 16.539 min
Delta R.T.: 0.000 min
Response: 44770
Conc: 94.15 pg/uL



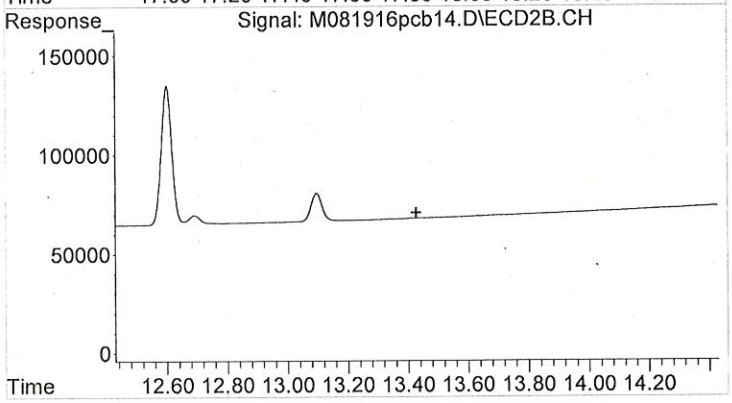
#11 1260-5

R.T.: 12.600 min
Delta R.T.: -0.001 min
Response: 69827
Conc: 93.73 pg/uL



#12 dcb

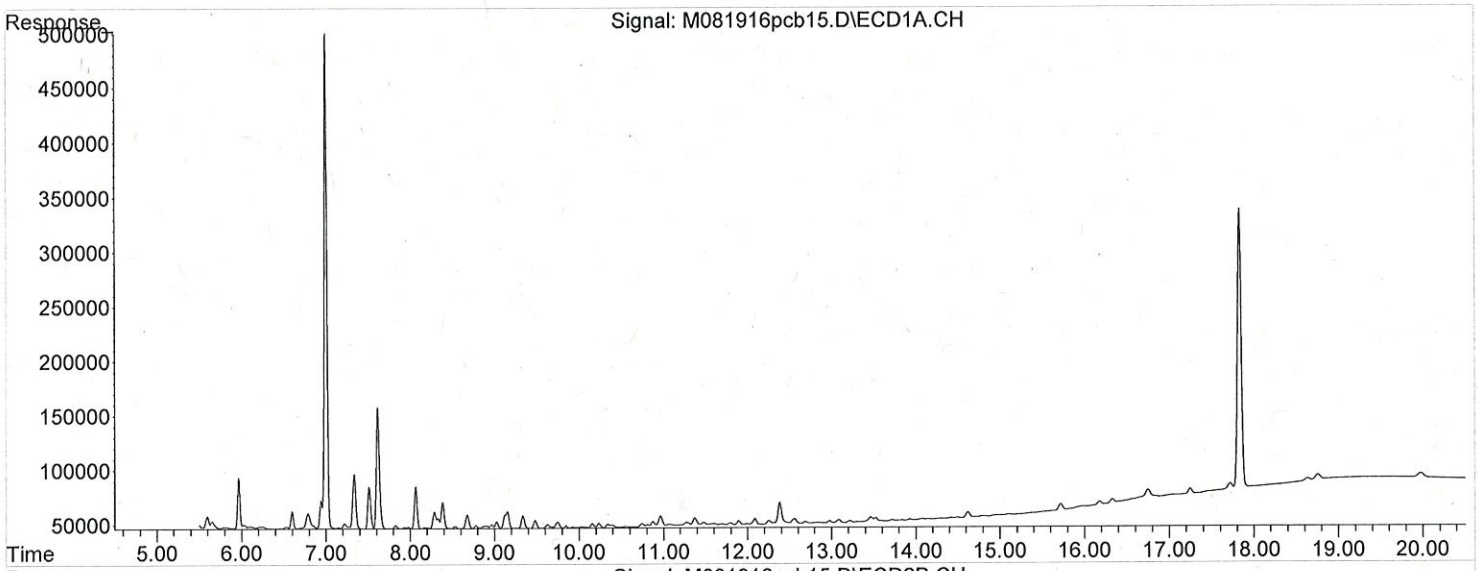
R.T.: 0.000 min
Exp R.T. : 17.830 min
Response: 0
Conc: N.D.

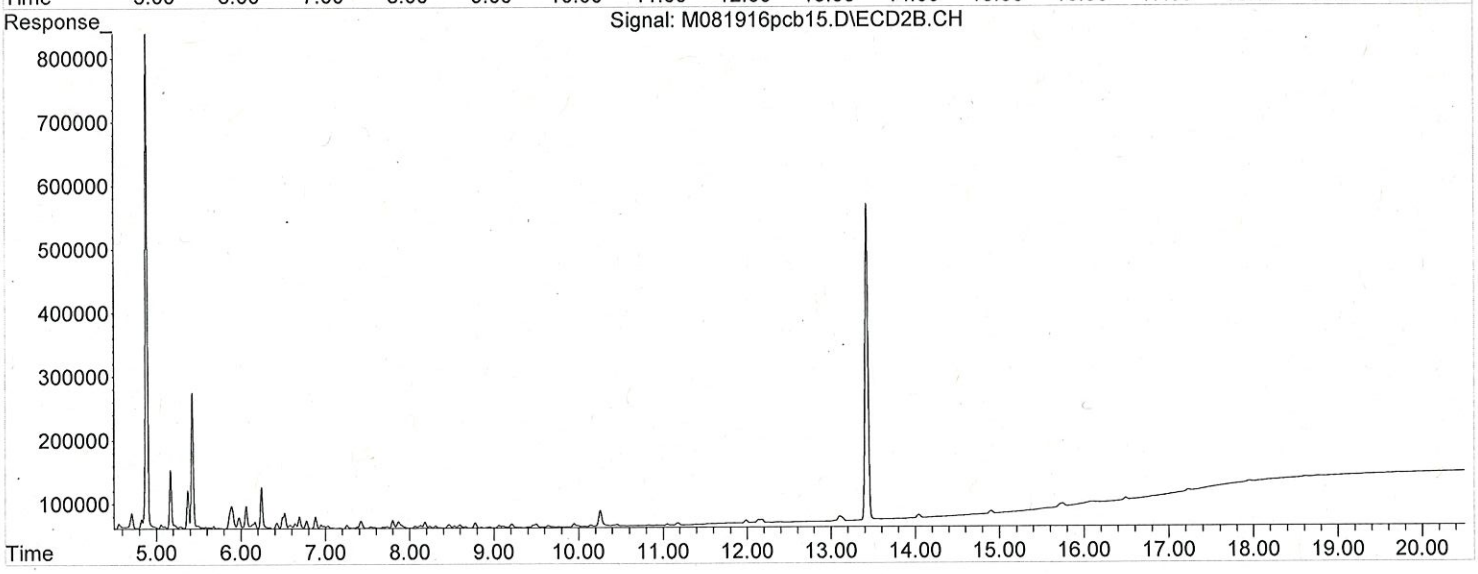


#12 dcb

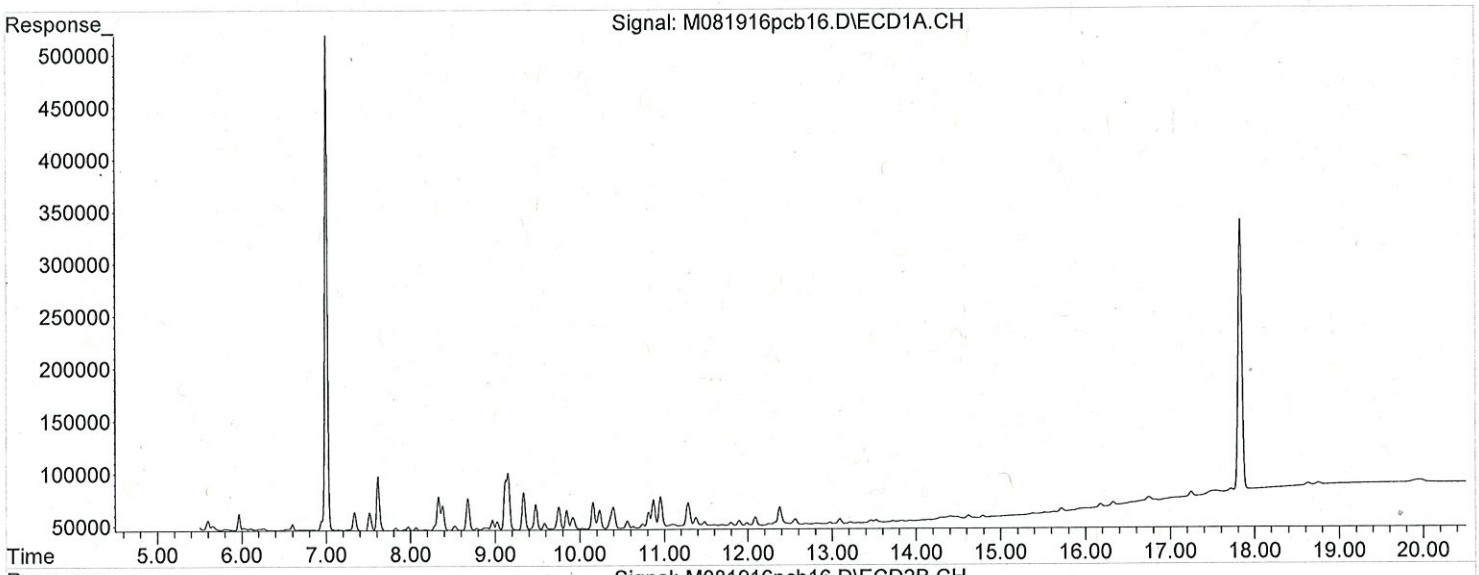
R.T.: 0.000 min
Exp R.T. : 13.428 min
Response: 0
Conc: N.D.

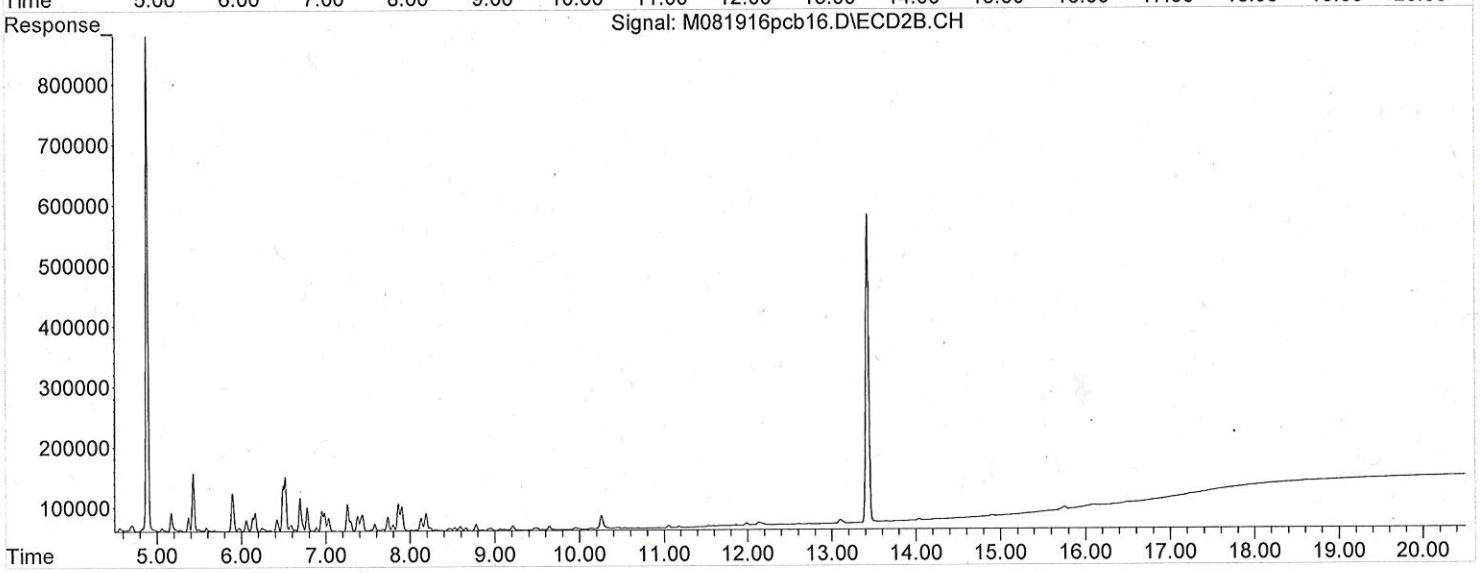
File :J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\M081916pc
... b15.D
Operator : DWOOD
Instrument : Minerva
Acquired : 19 Aug 2016 15:03 pm using AcqMethod M012116PCB2B.M
Sample Name: 87PCB020816A
Misc Info : SSV 1221 200pg/uL



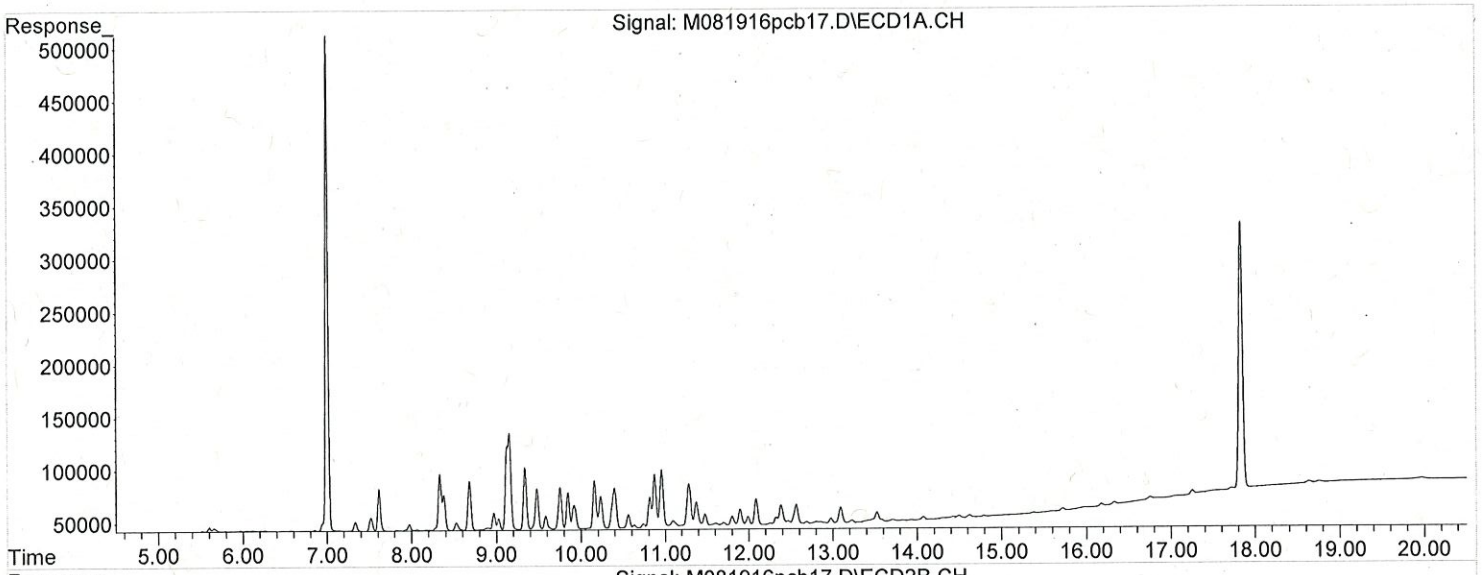


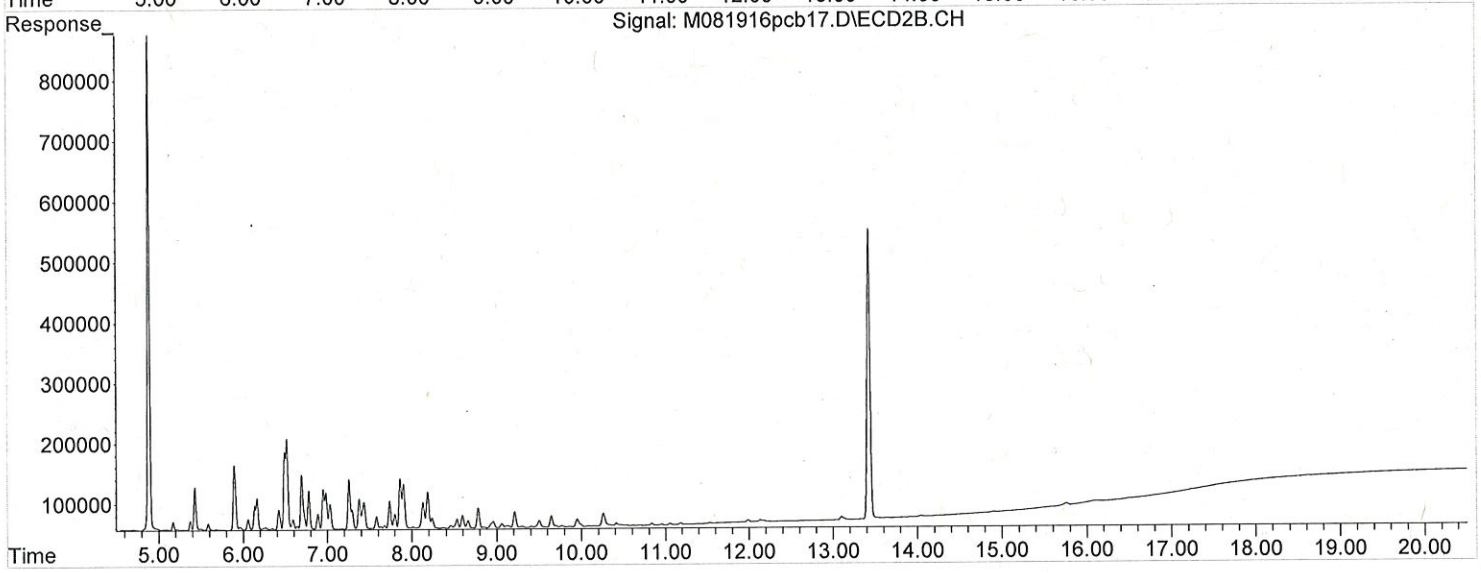
File :J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\M081916pc
... b16.D
Operator : DWOOD
Instrument : Minerva
Acquired : 19 Aug 2016 15:27 pm using AcqMethod M012116PCB2B.M
Sample Name: 87PCB020816B
Misc Info : SSV 1232 100pg/uL



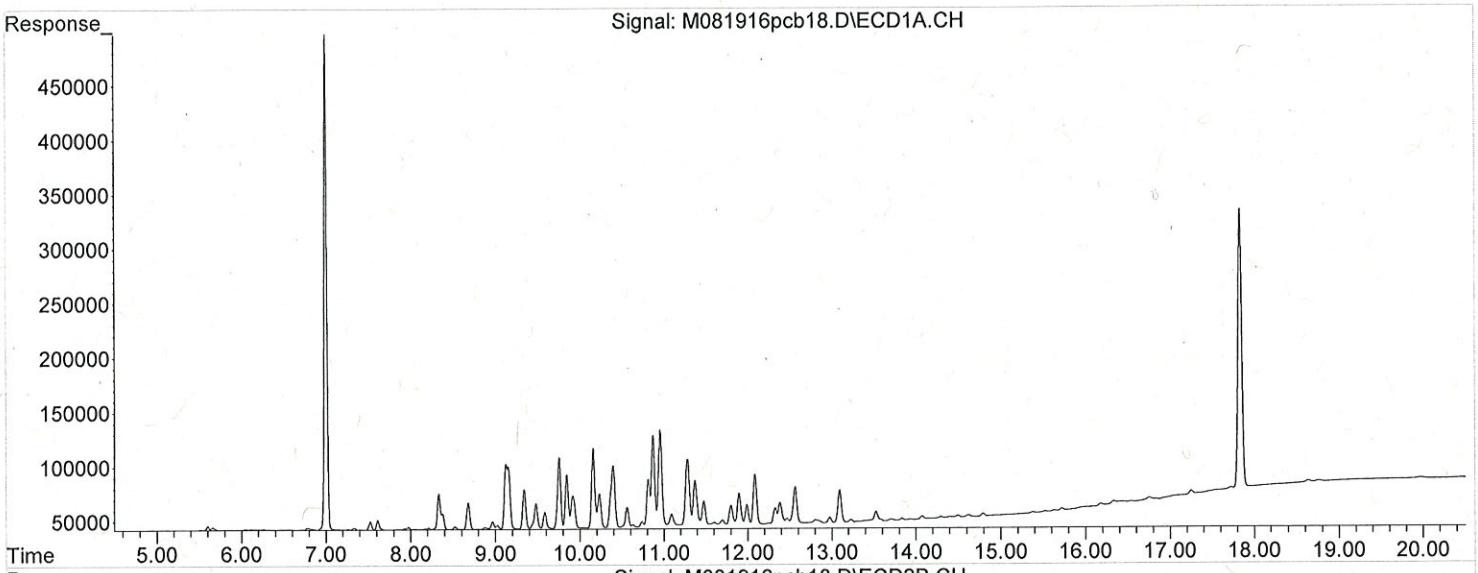


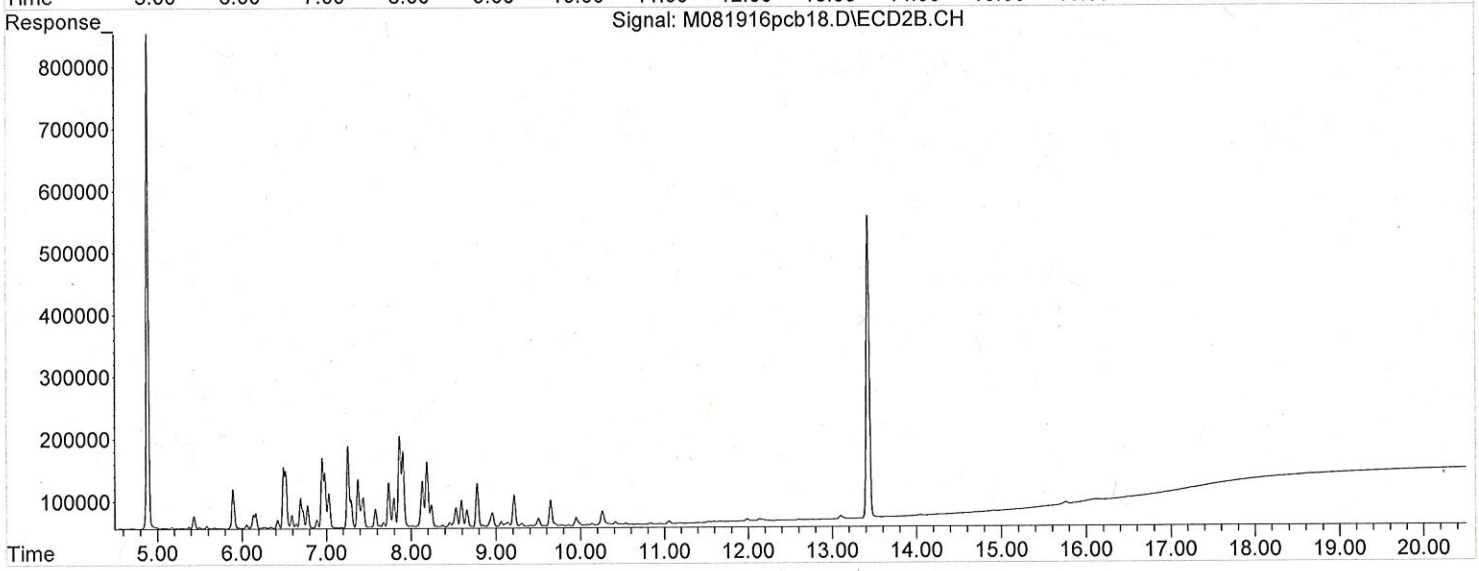
File :J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\M081916pc
... b17.D
Operator : DWOOD
Instrument : Minerva
Acquired : 19 Aug 2016 15:52 pm using AcqMethod M012116PCB2B.M
Sample Name: 87PCB020816C
Misc Info : SSV 1242 100pg/uL



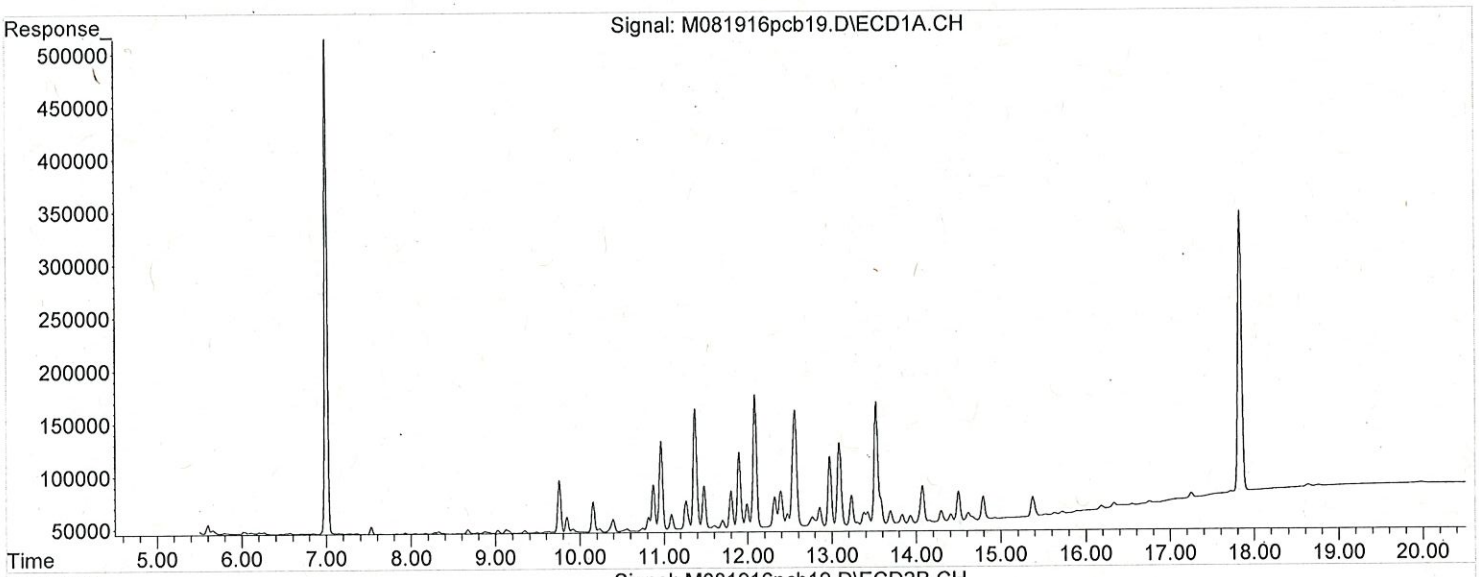


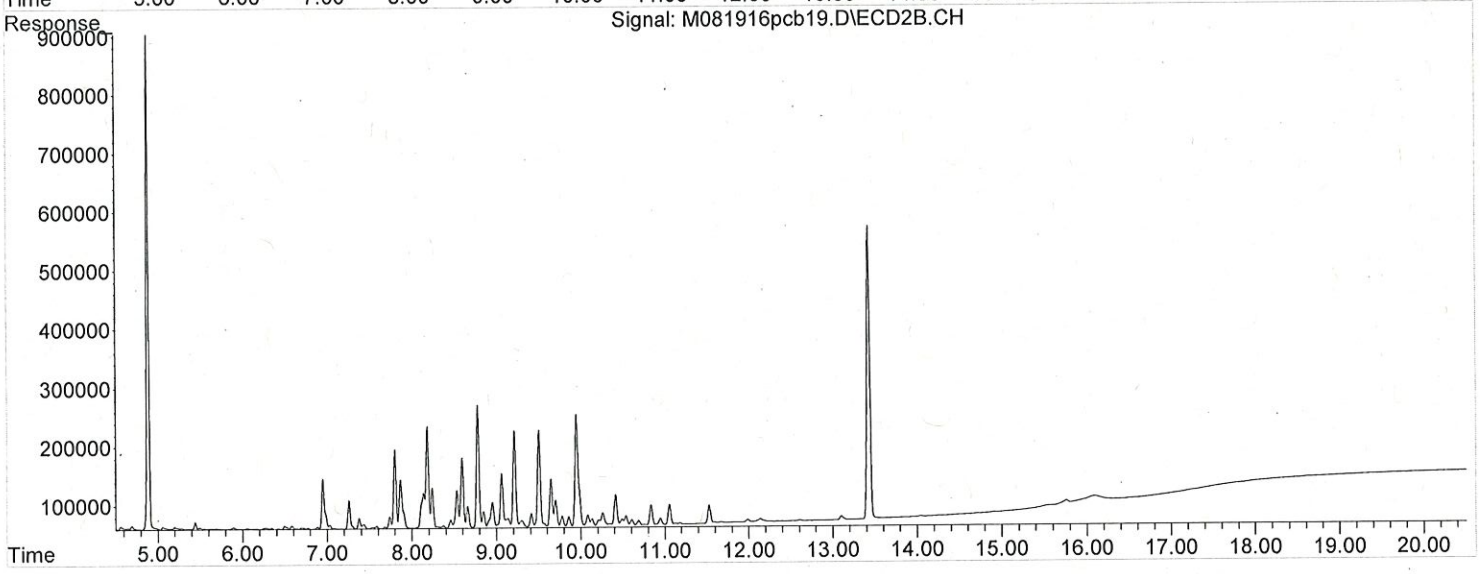
File :J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\M081916pc
... b18.D
Operator : DWOOD
Instrument : Minerva
Acquired : 19 Aug 2016 16:17 pm using AcqMethod M012116PCB2B.M
Sample Name: 87PCB020816D
Misc Info : SSV 1248 100pg/uL





File :J:\Organics\Minerva\MINERVA 2016 DATA\M081916PCBDW\M081916pc
... b19.D
Operator : DWOOD
Instrument : Minerva
Acquired : 19 Aug 2016 16:41 pm using AcqMethod M012116PCB2B.M
Sample Name: 87PCB020816E
Misc Info : SSV 1254 100pg/uL





- Daily CCVs for the ICAL
    a. CCV Evaluation (ContCal – Eval Datafile as CC)
    b. Custom Report, if available
    c. Quan Report Report (Quant – Generate Report – Summary)
    d. Peak Graphics (@Cmd Line –Thumbnail)

PCB CCV Report

Data File....: M082516pcb03.D
Dataname.....: 87PCB062716I
Analyzed.....: 08/25/2016 8:49

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

CCV Level..: 100 pg/uL
ICAL Date..: 08/19/2016

Datafile path....: J:\Organics\Minerva\MINERVA 2016 DATA\M082516PCBDW\M082516pcb03.D
DP Method path...: J:\Organics\Minerva\Methods\M081916PCB1260.M

PCB 1016/1260 Cont Cal 100pg/uL

CAS #	Compound	RT	Exp RT	Area	Spike (expected)	Amount (pg)	%Diff	Flag
Surrogate					Criteria range: <±20%D			
	tmx (1)	6.98	7.00	224184	10	9.94	-0.6	
	dcb	17.76	17.83	122813	10	10.1	0.9	
	tmx (1) #2	4.89	4.89	373420	10	10.1	1.4	
	dcb #2	13.43	13.43	219761	10	9.89	-1.1	
Target					Criteria range: <±20%D			
	1016 -1	7.58	7.62	42590	100	95.2	-4.8	
	1016-2	8.64	8.68	51891	100	96.5	-3.5	
	1016-3	9.30	9.34	67084	100	97.0	-3.0	
	1016-4	9.44	9.48	43473	100	94.0	-6.0	
	1016-5	9.54	9.58	13704	100	95.6	-4.4	
	1260-1	12.48	12.54	97140	100	101	1.5	
	1260-2	12.92	12.97	115893 m	100	102	1.9	
	1260-3	13.47	13.52	111672	100	98.1	-1.9	
	1260-4	15.32	15.37	76415	100	100	0.002	
	1260-5	16.48	16.54	48062	100	102	1.6	
	1016 -1 #2	5.43	5.43	74664	100	103	2.9	
	1016-2 #2	5.90	5.89	117880	100	103	2.7	
	1016-3 #2	6.52	6.52	170720	100	99.8	-0.19	
	1016-4 #2	6.69	6.70	102373	100	101	1.2	
	1016-5 #2	6.78	6.78	70414	100	97.6	-2.4	
	1260-1 #2	9.06	9.06	163701	100	102	2.3	
	1260-2 #2	9.50	9.50	230791	100	100	0.18	
	1260-3 #2	9.95	9.95	175668	100	98.8	-1.2	
	1260-4 #2	11.06	11.06	281523	100	96.2	-3.8	
	1260-5 #2	12.60	12.60	73445	100	98.7	-1.3	

Average %Difference:	%Diff
1016 Column 1 (n=5)	-4.3
1016 Column 2 (n=5)	0.84
1260 Column 1 (n=5)	0.61
1260 Column 2 (n=5)	-0.74

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M082516PCBDW\
Data File : M082516pcb03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Aug 2016 8:49 am
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 Cont Cal 100pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 19 14:32:12 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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)	6.975	4.886	224184	373420	9.942	10.143
12) S2 dcb	17.765f	13.426	122813	219761	10.092	9.888
Target Compounds						
2) L1 1016 -1	7.582	5.427	42590	74664	95.228	102.866
3) L1 1016-2	8.645	5.895	51891	117880	96.465	102.706
4) L1 1016-3	9.298	6.517	67084	170720	97.013	99.814
5) L1 1016-4	9.440	6.694	43473	102373	94.012	101.185
6) L1 1016-5	9.544	6.779	13704	70414	95.587	97.609
Sum 1016 -1			218743	536051	478.305	504.179
Average 1016 -1					95.661	100.836
7) L2 1260-1	12.483	9.062	97140	163701	101.488	102.314
8) L2 1260-2	12.920	9.502	115893	230791	101.943m	100.182
9) L2 1260-3	13.470f	9.948	111672	175668	98.051	98.825
10) L2 1260-4	15.315f	11.055	76415	281523	100.002	96.233
11) L2 1260-5	16.476f	12.601	48062	73445	101.580	98.726
Sum 1260-1			449182	925127	503.065	496.281
Average 1260-1					100.613	99.256

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

ww
9/19/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M082516PCBDW\
Data File : M082516pcb03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Aug 2016 8:49 am
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 Cont Cal 100pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 19 09:45:47 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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)	6.975	4.886	224184	373420	9.942	10.143	
12)	S2 dcb	17.765f	13.426	122813	219761	10.092	9.888	
	Target Compounds							
2)	L1 1016 -1	7.582	5.427	42590	74664	95.228	102.866	
3)	L1 1016-2	8.645	5.895	51891	117880	96.465	102.706	
4)	L1 1016-3	9.298	6.517	67084	170720	97.013	99.814	
5)	L1 1016-4	9.440	6.694	43473	102373	94.012	101.185	
6)	L1 1016-5	9.544	6.779	13704	70414	95.587	97.609	
	Sum 1016 -1			218743	536051	478.305	504.179	
	Average 1016 -1					95.661	100.836	
7)	L2 1260-1	12.483	9.062	97140	163701	101.488	102.314	
8)	L2 1260-2	13.023	9.502	36283	230791	24.279	100.182	#
9)	L2 1260-3	13.470f	9.948	111672	175668	98.051	98.825	
10)	L2 1260-4	15.315f	11.055	76415	281523	100.002	96.233	
11)	L2 1260-5	16.476f	12.601	48062	73445	101.580	98.726	
	Sum 1260-1			369572	925127	425.401	496.281	
	Average 1260-1					85.080	99.256	

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

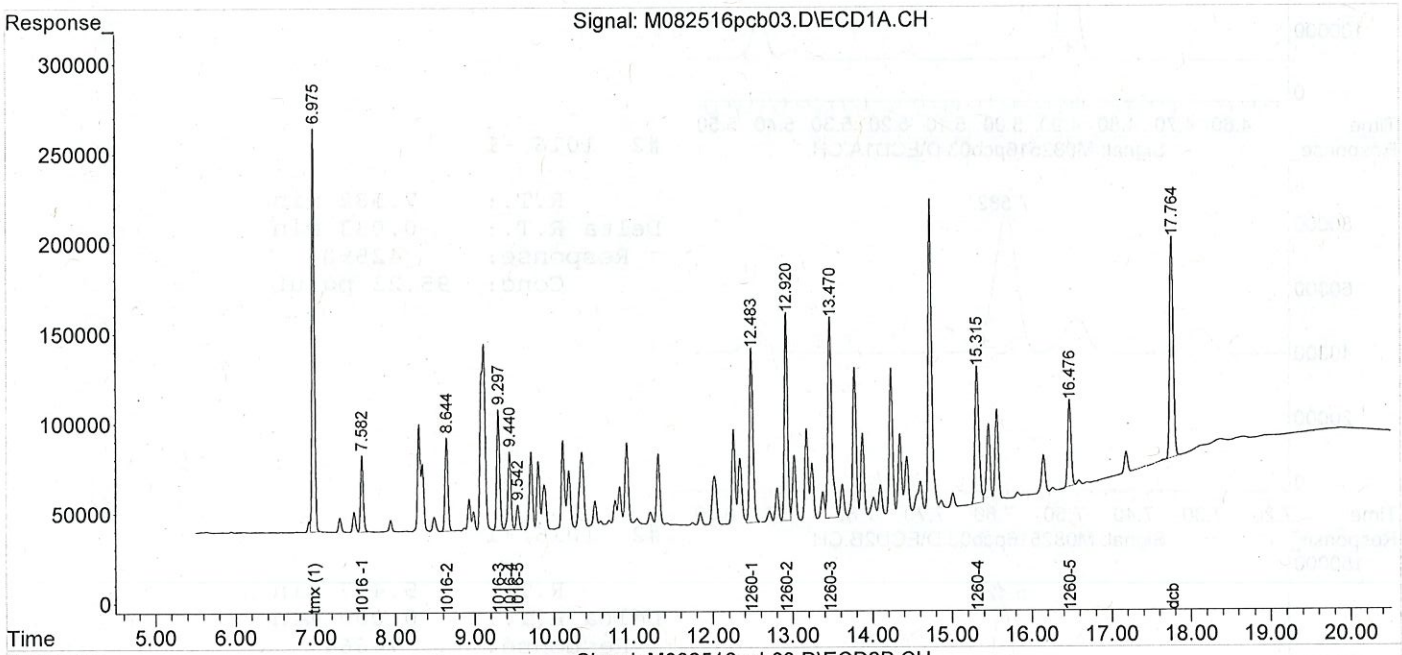
9/19/16

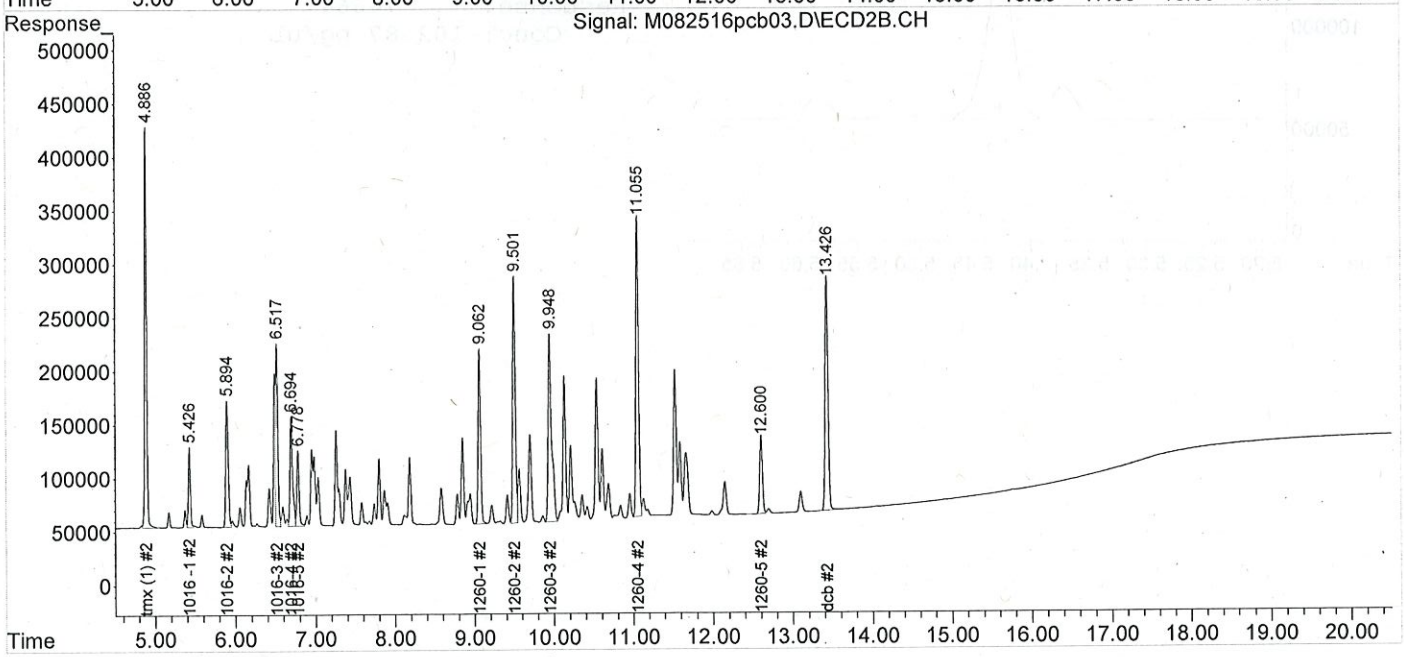
Quantitation Report (QT Reviewed)

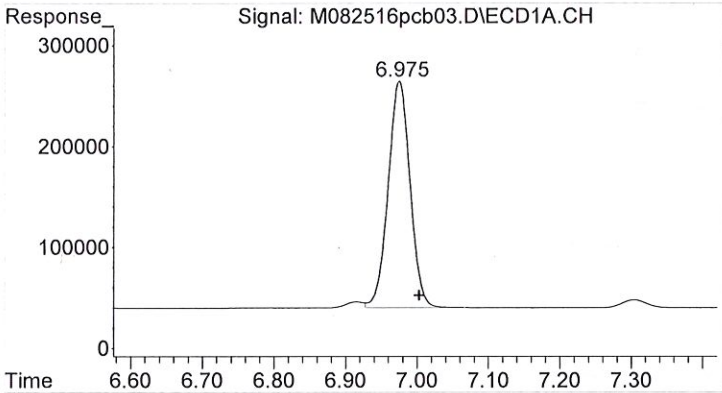
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M082516PCBDW\
Data File : M082516pcb03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Aug 2016 8:49 am
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 Cont Cal 100pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 19 14:32:12 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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

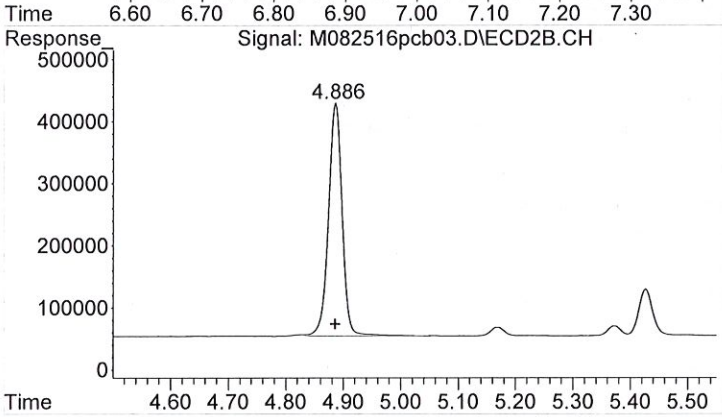






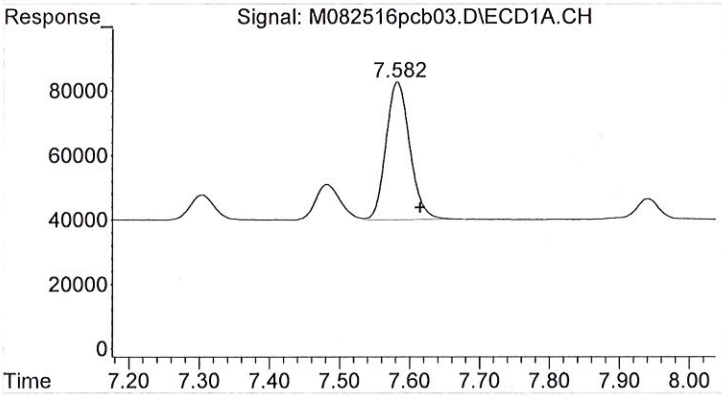
#1 tmx (1)

R.T.: 6.975 min
Delta R.T.: -0.028 min
Response: 224184
Conc: 9.94 pg/uL



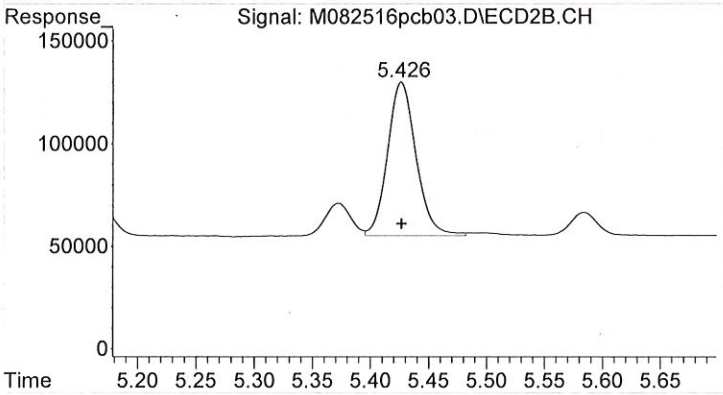
#1 tmx (1)

R.T.: 4.886 min
Delta R.T.: 0.000 min
Response: 373420
Conc: 10.14 pg/uL



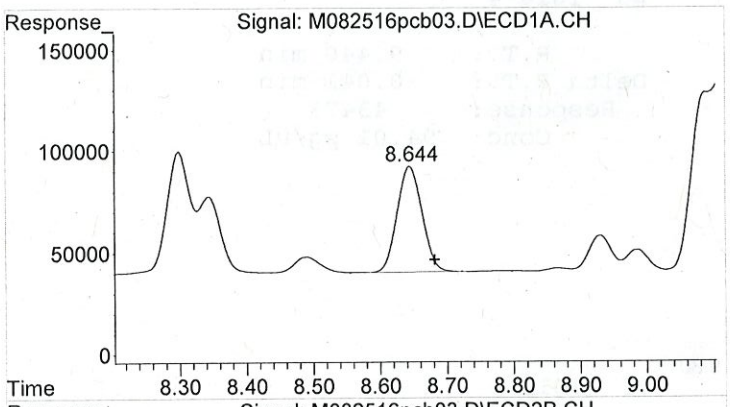
#2 1016 -1

R.T.: 7.582 min
Delta R.T.: -0.033 min
Response: 42590
Conc: 95.23 pg/uL



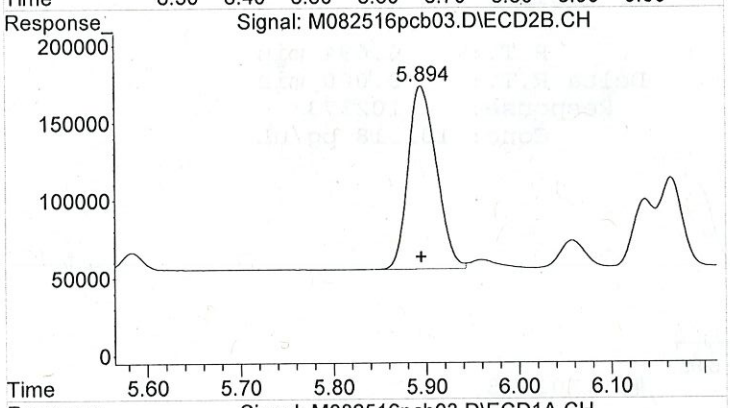
#2 1016 -1

R.T.: 5.427 min
Delta R.T.: 0.000 min
Response: 74664
Conc: 102.87 pg/uL



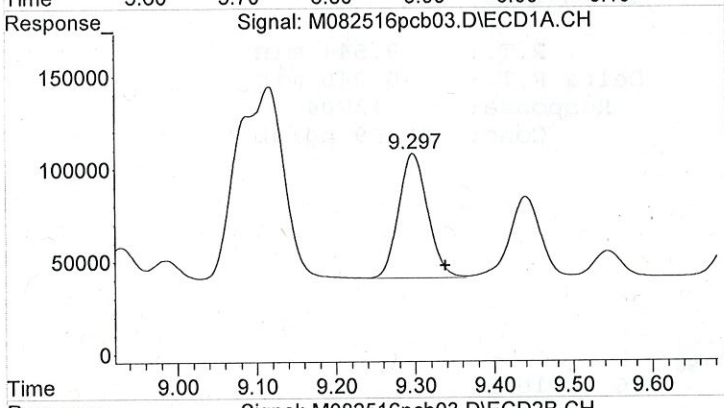
#3 1016-2

R.T.: 8.645 min
Delta R.T.: -0.037 min
Response: 51891
Conc: 96.47 pg/uL



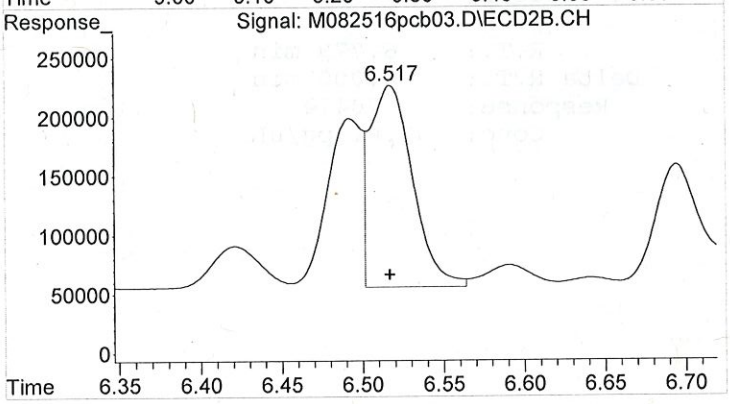
#3 1016-2

R.T.: 5.895 min
Delta R.T.: 0.000 min
Response: 117880
Conc: 102.71 pg/uL



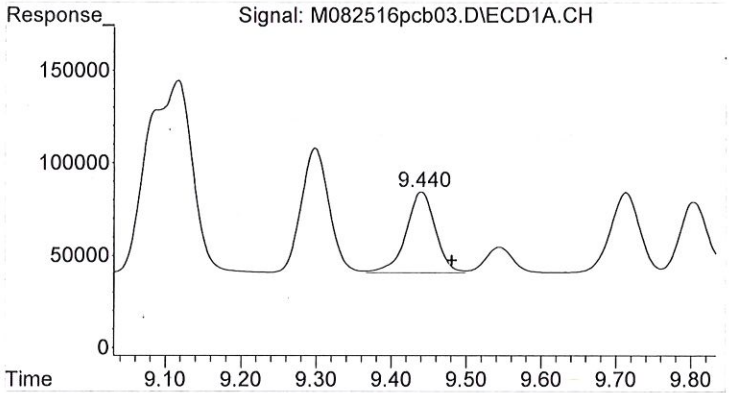
#4 1016-3

R.T.: 9.298 min
Delta R.T.: -0.040 min
Response: 67084
Conc: 97.01 pg/uL



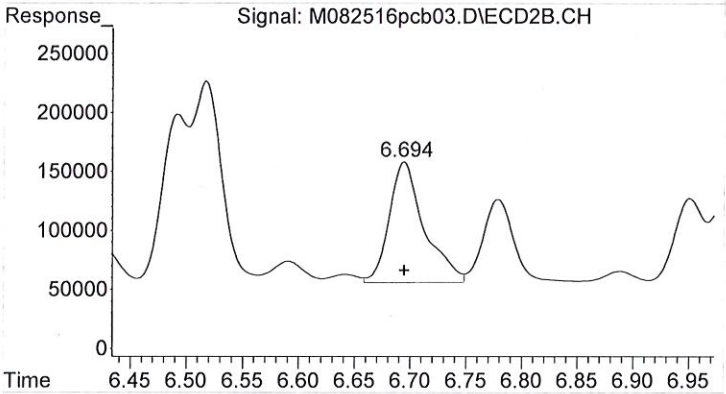
#4 1016-3

R.T.: 6.517 min
Delta R.T.: 0.000 min
Response: 170720
Conc: 99.81 pg/uL



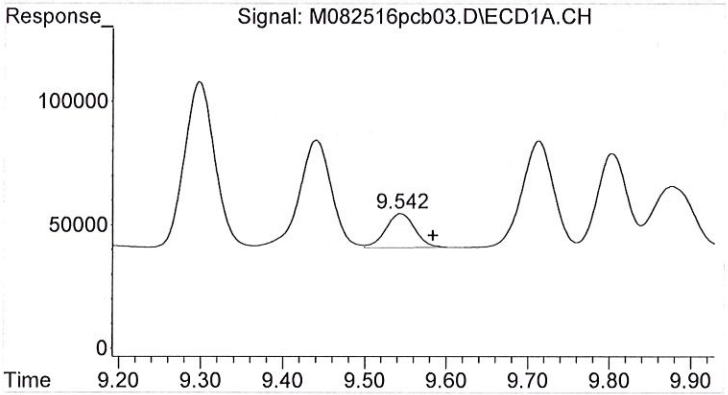
#5 1016-4

R.T.: 9.440 min
Delta R.T.: -0.041 min
Response: 43473
Conc: 94.01 pg/uL



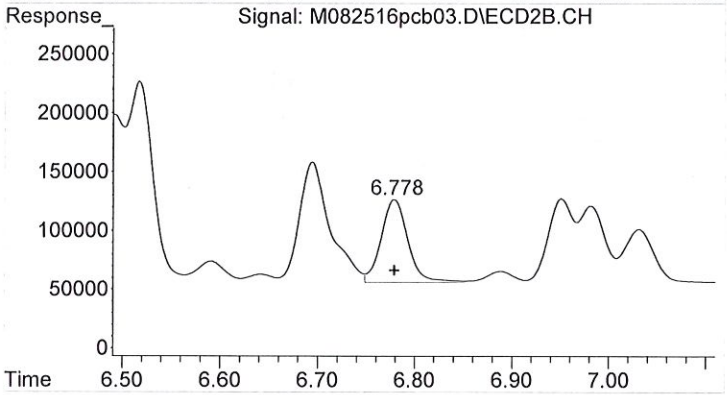
#5 1016-4

R.T.: 6.694 min
Delta R.T.: 0.000 min
Response: 102373
Conc: 101.18 pg/uL



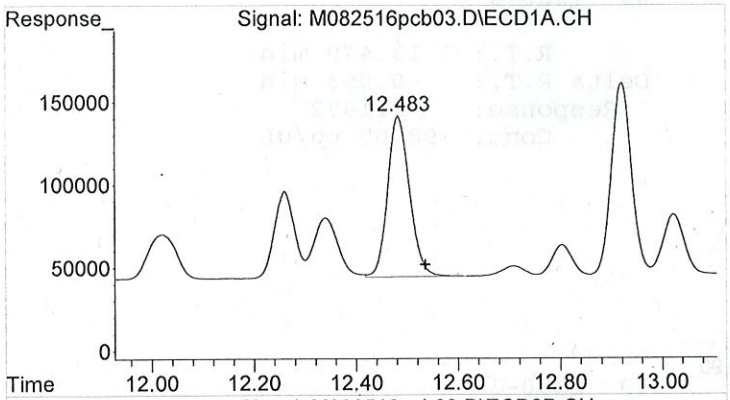
#6 1016-5

R.T.: 9.544 min
Delta R.T.: -0.040 min
Response: 13704
Conc: 95.59 pg/uL



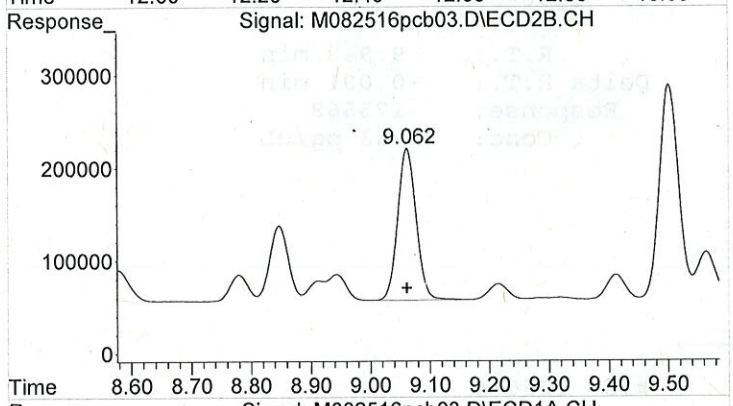
#6 1016-5

R.T.: 6.779 min
Delta R.T.: 0.000 min
Response: 70414
Conc: 97.61 pg/uL



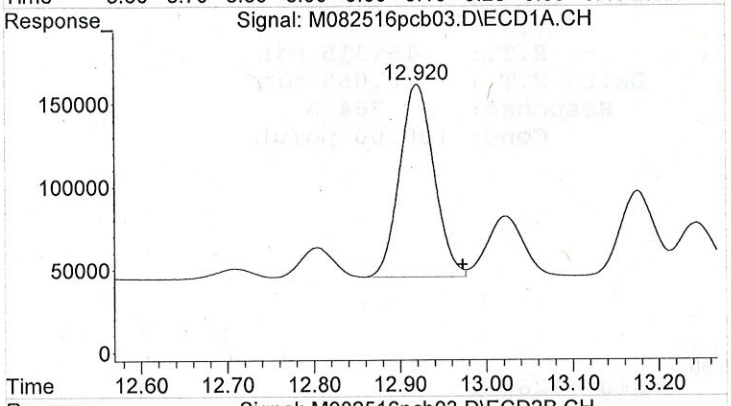
#7 1260-1

R.T.: 12.483 min
Delta R.T.: -0.053 min
Response: 97140
Conc: 101.49 pg/uL



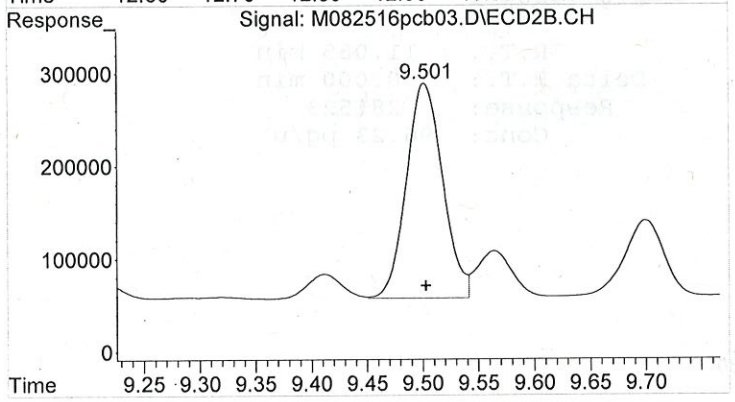
#7 1260-1

R.T.: 9.062 min
Delta R.T.: 0.000 min
Response: 163701
Conc: 102.31 pg/uL



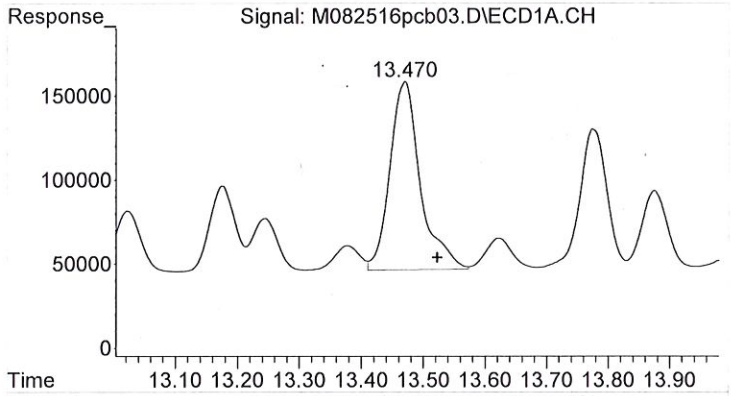
#8 1260-2

R.T.: 12.920 min
Delta R.T.: -0.053 min
Response: 115893
Conc: 101.94 pg/uL m



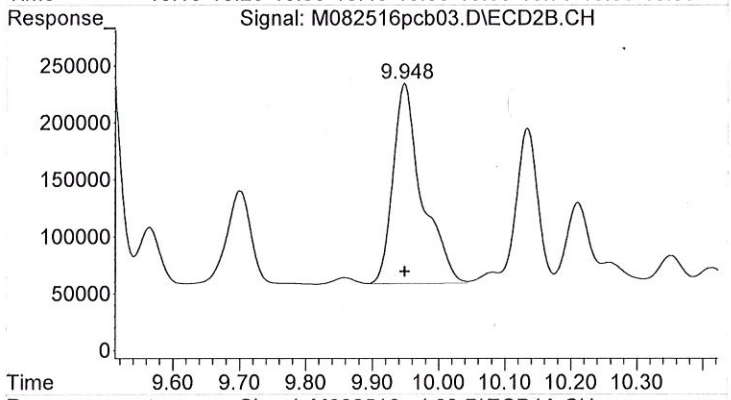
#8 1260-2

R.T.: 9.502 min
Delta R.T.: -0.001 min
Response: 230791
Conc: 100.18 pg/uL



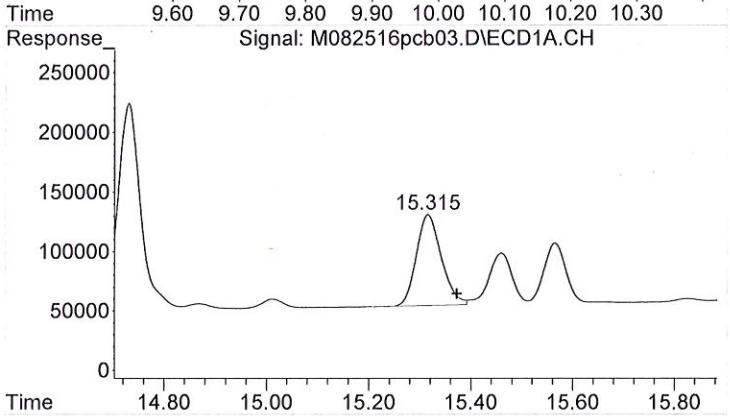
#9 1260-3

R.T.: 13.470 min
Delta R.T.: -0.053 min
Response: 111672
Conc: 98.05 pg/uL



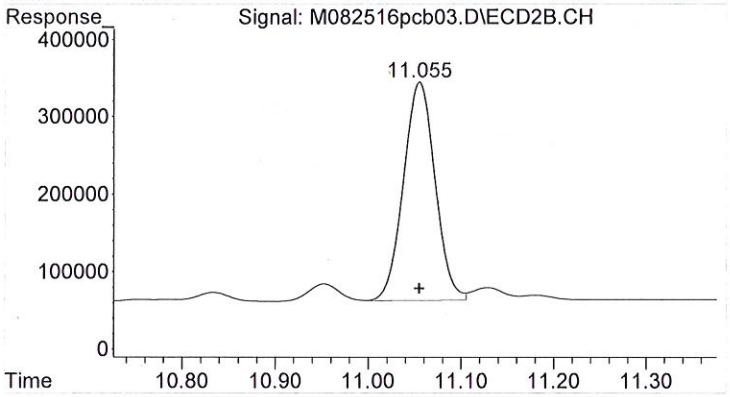
#9 1260-3

R.T.: 9.948 min
Delta R.T.: -0.001 min
Response: 175668
Conc: 98.83 pg/uL



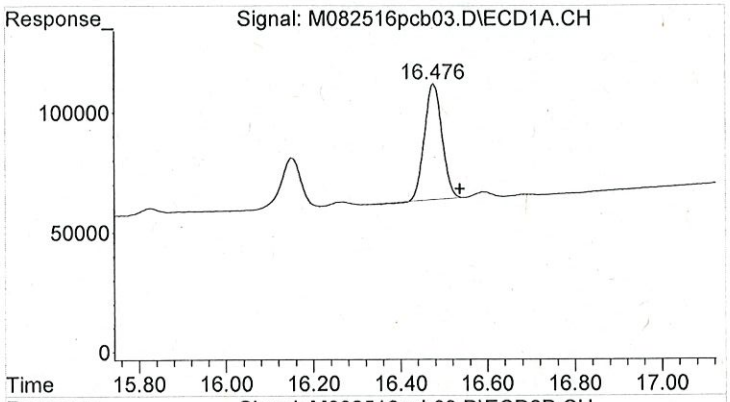
#10 1260-4

R.T.: 15.315 min
Delta R.T.: -0.058 min
Response: 76415
Conc: 100.00 pg/uL



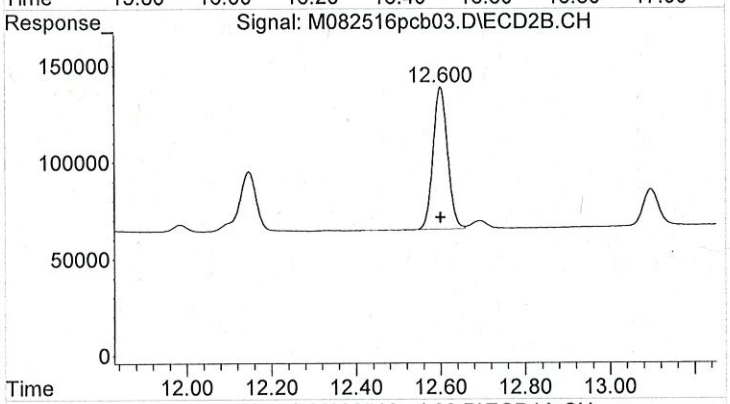
#10 1260-4

R.T.: 11.055 min
Delta R.T.: 0.000 min
Response: 281523
Conc: 96.23 pg/uL



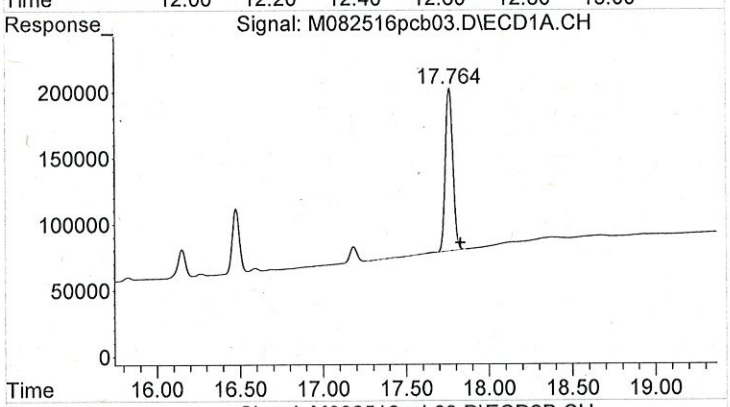
#11 1260-5

R.T.: 16.476 min
Delta R.T.: -0.062 min
Response: 48062
Conc: 101.58 pg/uL



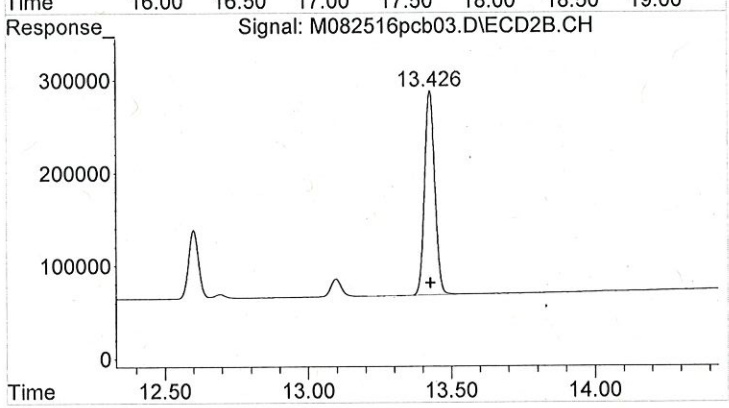
#11 1260-5

R.T.: 12.601 min
Delta R.T.: 0.000 min
Response: 73445
Conc: 98.73 pg/uL



#12 dcb

R.T.: 17.765 min
Delta R.T.: -0.065 min
Response: 122813
Conc: 10.09 pg/uL



#12 dcb

R.T.: 13.426 min
Delta R.T.: -0.002 min
Response: 219761
Conc: 9.89 pg/uL

PCB CCV Report

Data File....: M082516pcb13.D
Dataname.....: 87PCB062716I
Analyzed.....: 08/25/2016 12:56

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

CCV Level..: 100 pg/uL
ICAL Date..: 08/19/2016

Datafile path....: J:\Organics\Minerva\MINERVA 2016 DATA\M082516PCBDW\M082516pcb13.D
DP Method path...: J:\Organics\Minerva\Methods\M081916PCB1260.M

PCB 1016/1260 Cont Cal 100pg/uL

CAS #	Compound	RT	Exp RT	Area	Spike (expected)	Amount (pg)	%Diff	Flag
Surrogate					Criteria range: <±20%D			
	tmx (1)	7.00	7.00	218461	10	9.67	-3.3	
	dcb	17.81	17.83	120766	10	9.91	-0.9	
	tmx (1) #2	4.89	4.89	371812	10	10.1	1	
	dcb #2	13.42	13.43	205791	10	9.23	-7.7	
Target					Criteria range: <±20%D			
	1016 -1	7.61	7.62	36987	100	81.4	-19	
	1016-2	8.67	8.68	41182	100	74.6	-25	> ±20%
	1016-3	9.33	9.34	49747	100	69.8	-30	> ±20%
	1016-4	9.47	9.48	32108	100	67.5	-32	> ±20%
	1016-5	9.57	9.58	9842	100	67.6	-32	> ±20%
	1260-1	12.52	12.54	64550	100	63.1	-37	> ±20%
	1260-2	12.96	12.97	78712	100	65.7	-34	> ±20%
	1260-3	13.51	13.52	80288	100	67.7	-32	> ±20%
	1260-4	15.35	15.37	52291	100	65.6	-34	> ±20%
	1260-5	16.52	16.54	38784	100	80.6	-19	
	1016 -1 #2	5.43	5.43	75038	100	103	3.4	
	1016-2 #2	5.89	5.89	118524	100	103	3.3	
	1016-3 #2	6.52	6.52	171891	100	101	0.54	
	1016-4 #2	6.69	6.70	102219	100	101	1.0	
	1016-5 #2	6.78	6.78	71830	100	99.7	-0.31	
	1260-1 #2	9.06	9.06	158349	100	98.7	-1.3	
	1260-2 #2	9.50	9.50	222935	100	96.6	-3.4	
	1260-3 #2	9.95	9.95	169922	100	95.5	-4.5	
	1260-4 #2	11.05	11.06	272585	100	93.1	-6.9	
	1260-5 #2	12.60	12.60	71400	100	95.9	-4.1	

Average %Difference:	%Diff	
1016 Column 1 (n=5)	-28	>±20%
1016 Column 2 (n=5)	1.6	
1260 Column 1 (n=5)	-31	>±20%
1260 Column 2 (n=5)	-4.1	

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M082516PCBDW\
Data File : M082516pcb13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Aug 2016 12:56 pm
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 Cont Cal 100pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 19 09:48:15 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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)	6.999	4.886	218461	371812	9.673	10.096	
12)	S2 dcb	17.808	13.424	120766	205791	9.910	9.225	
	Target Compounds							
2)	L1 1016 -1	7.608	5.426	36987	75038	81.417	103.429	#
3)	L1 1016-2	8.672	5.894	41182	118524	74.571	103.312	#
4)	L1 1016-3	9.327	6.516	49747	171891	69.787	100.536	#
5)	L1 1016-4	9.470	6.693	32108	102219	67.516	101.021	#
6)	L1 1016-5	9.573	6.777	9842	71830	67.628	99.690	#
	Sum 1016 -1			169867	539502	360.918	507.988	
	Average 1016 -1					72.184	101.598	
7)	L2 1260-1	12.519	9.059	64550	158349	63.140	98.736	#
8)	L2 1260-2	12.957	9.499	78712	222935	65.671	96.561	#
9)	L2 1260-3	13.505	9.946	80288	169922	67.706	95.460	#
10)	L2 1260-4	15.353	11.052	52291	272585	65.579	93.080	#
11)	L2 1260-5	16.518	12.598	38784	71400	80.630	95.904	
	Sum 1260-1			314625	895192	342.726	479.741	
	Average 1260-1					68.545	95.948	

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

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9/19/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M082516PCBDW\
Data File : M082516pcb13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Aug 2016 12:56 pm
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 Cont Cal 100pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 19 09:48:15 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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)	6.999	4.886	218461	371812	9.673	10.096	
12) S2 dcb	17.808	13.424	120766	205791	9.910	9.225	
Target Compounds							
2) L1 1016 -1	7.608	5.426	36987	75038	81.417	103.429	#
3) L1 1016-2	8.672	5.894	41182	118524	74.571	103.312	#
4) L1 1016-3	9.327	6.516	49747	171891	69.787	100.536	#
5) L1 1016-4	9.470	6.693	32108	102219	67.516	101.021	#
6) L1 1016-5	9.573	6.777	9842	71830	67.628	99.690	#
Sum 1016 -1			169867	539502	360.918	507.988	
Average 1016 -1					72.184	101.598	
7) L2 1260-1	12.519	9.059	64550	158349	63.140	98.736	#
8) L2 1260-2	12.957	9.499	78712	222935	65.671	96.561	#
9) L2 1260-3	13.505	9.946	80288	169922	67.706	95.460	#
10) L2 1260-4	15.353	11.052	52291	272585	65.579	93.080	#
11) L2 1260-5	16.518	12.598	38784	71400	80.630	95.904	
Sum 1260-1			314625	895192	342.726	479.741	
Average 1260-1					68.545	95.948	

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

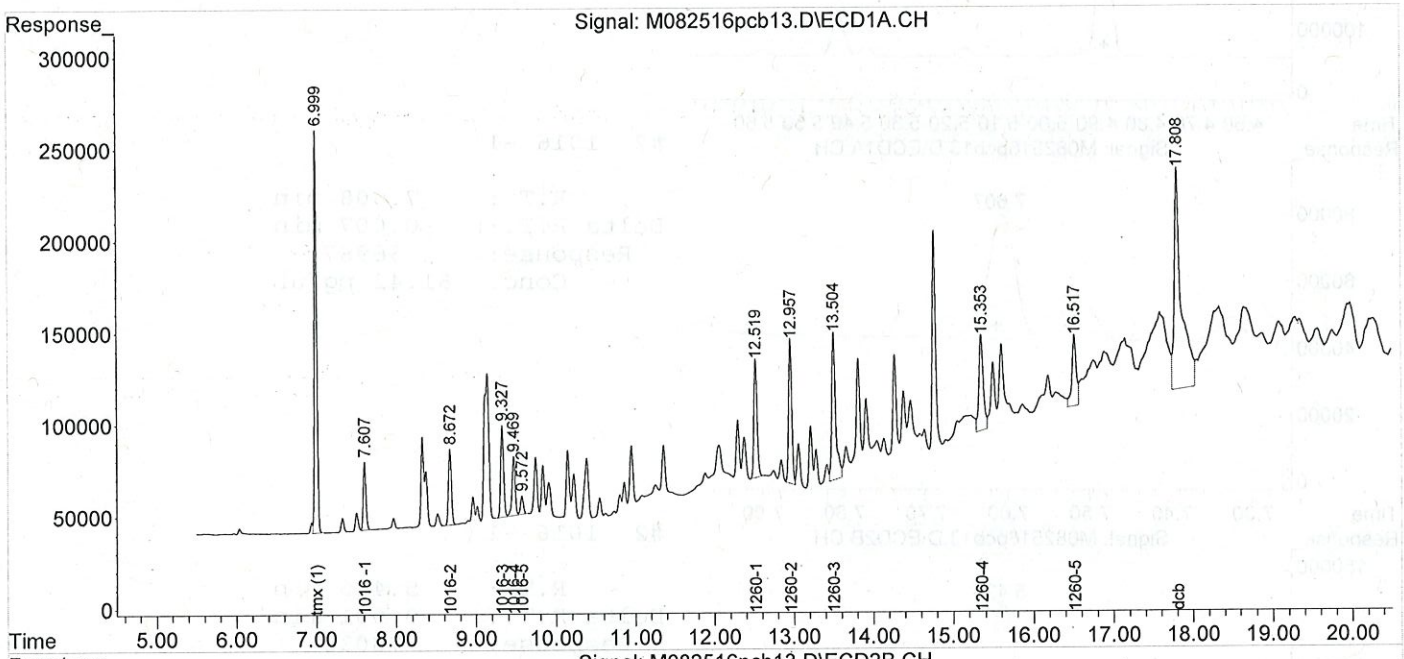
lw
9/19/16

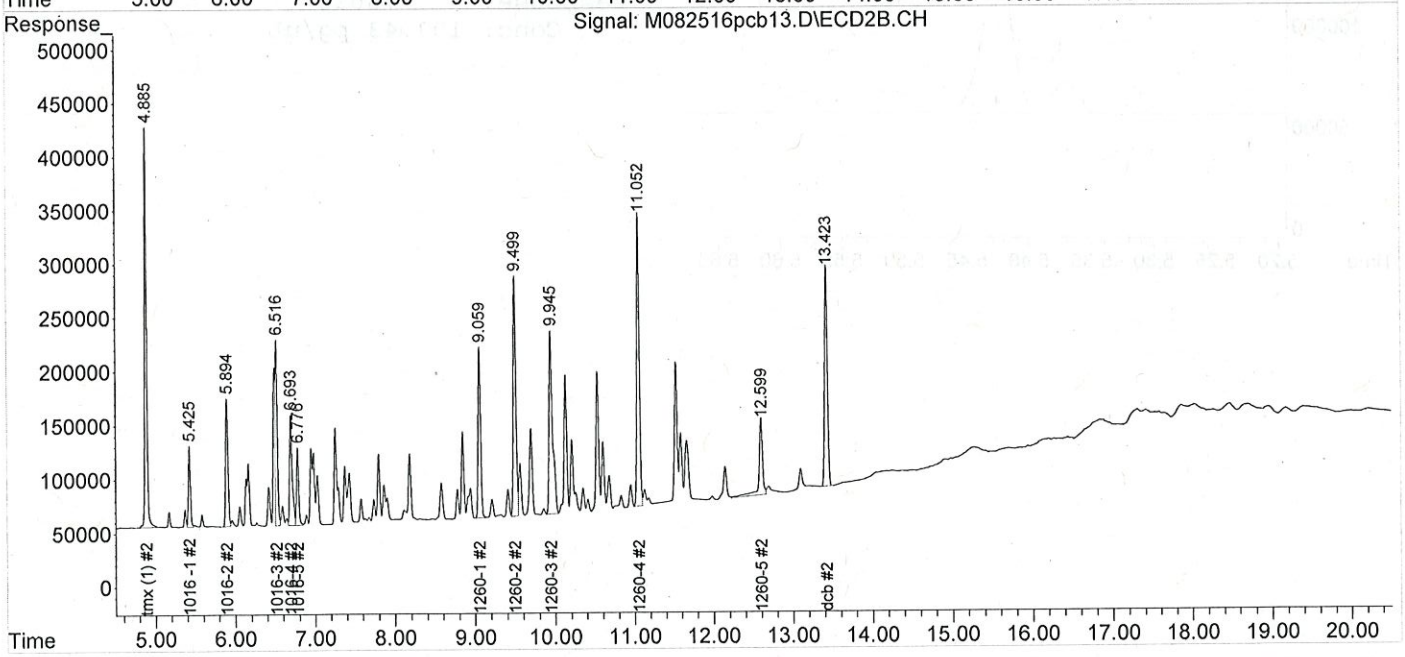
Quantitation Report (QT Reviewed)

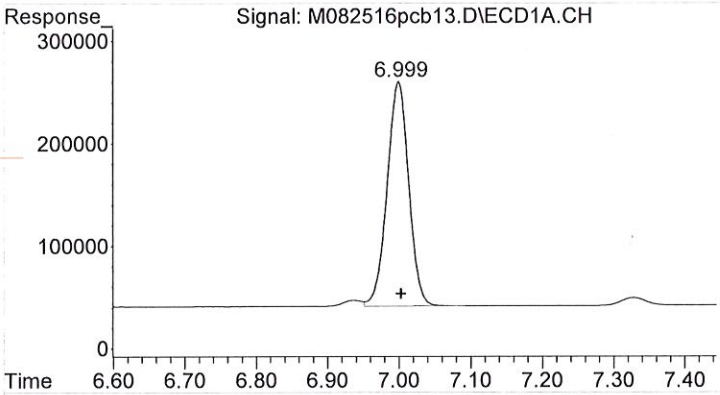
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M082516PCBDW\
Data File : M082516pcb13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Aug 2016 12:56 pm
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 Cont Cal 100pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 19 09:48:15 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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

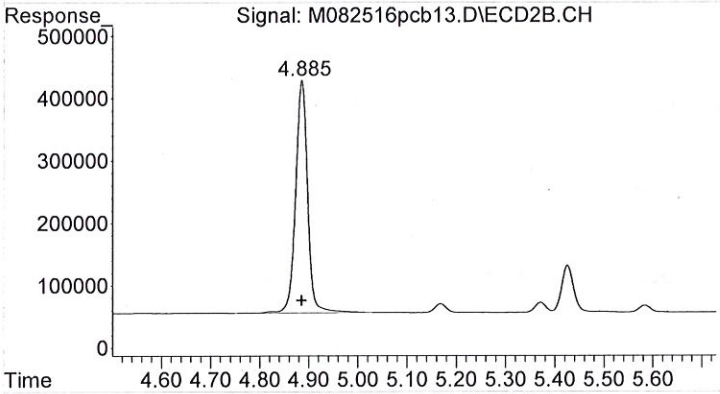






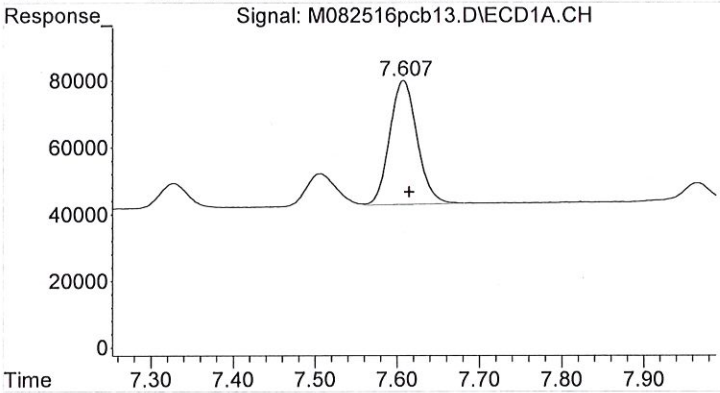
#1 tmx (1)

R.T.: 6.999 min
Delta R.T.: -0.004 min
Response: 218461
Conc: 9.67 pg/uL



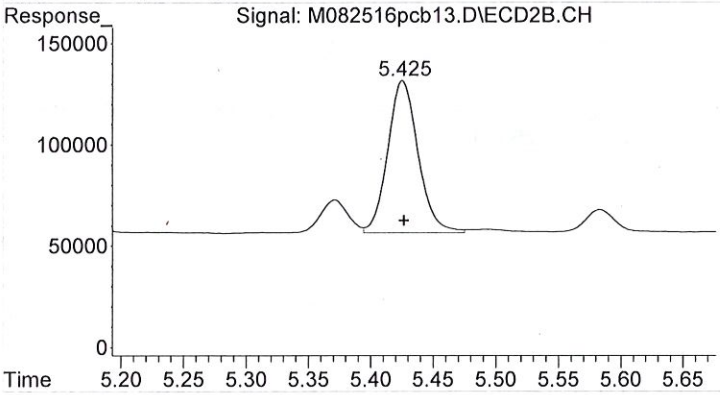
#1 tmx (1)

R.T.: 4.886 min
Delta R.T.: 0.000 min
Response: 371812
Conc: 10.10 pg/uL



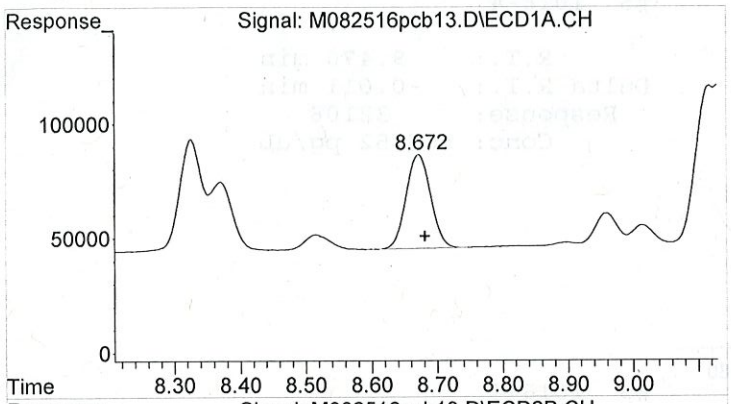
#2 1016 -1

R.T.: 7.608 min
Delta R.T.: -0.007 min
Response: 36987
Conc: 81.42 pg/uL



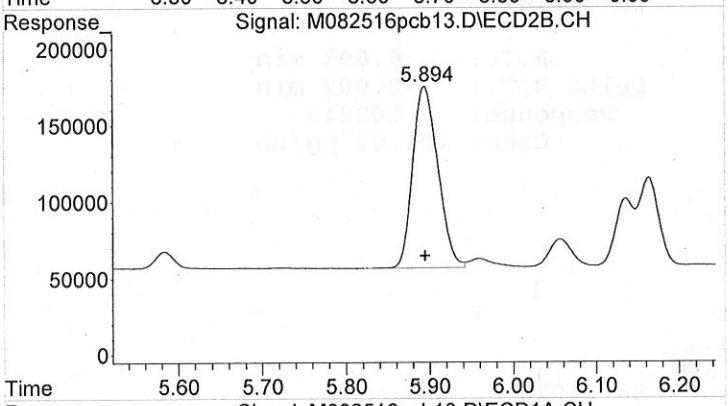
#2 1016 -1

R.T.: 5.426 min
Delta R.T.: -0.001 min
Response: 75038
Conc: 103.43 pg/uL



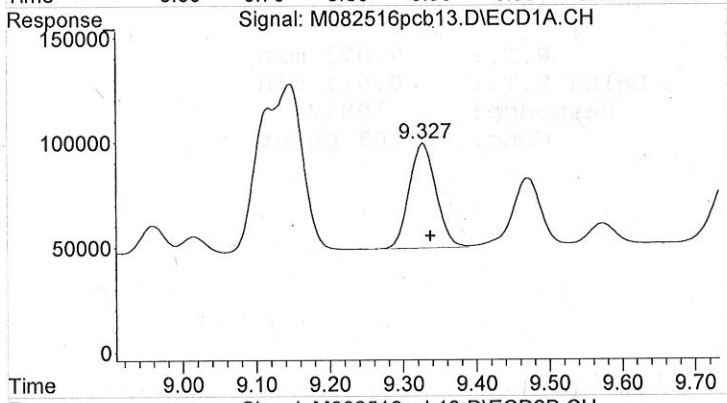
#3 1016-2

R.T.: 8.672 min
Delta R.T.: -0.010 min
Response: 41182
Conc: 74.57 pg/uL



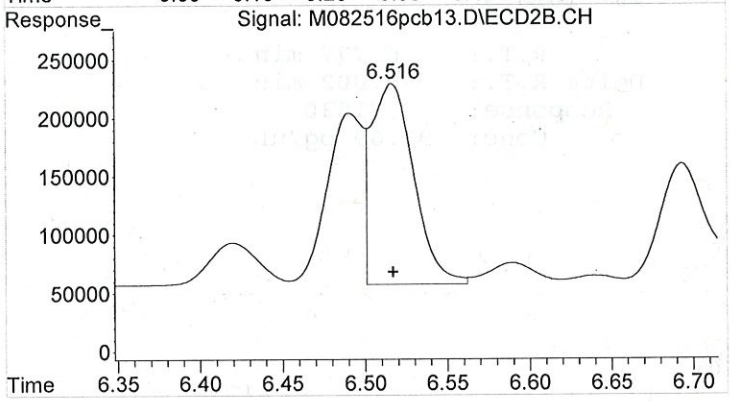
#3 1016-2

R.T.: 5.894 min
Delta R.T.: 0.000 min
Response: 118524
Conc: 103.31 pg/uL



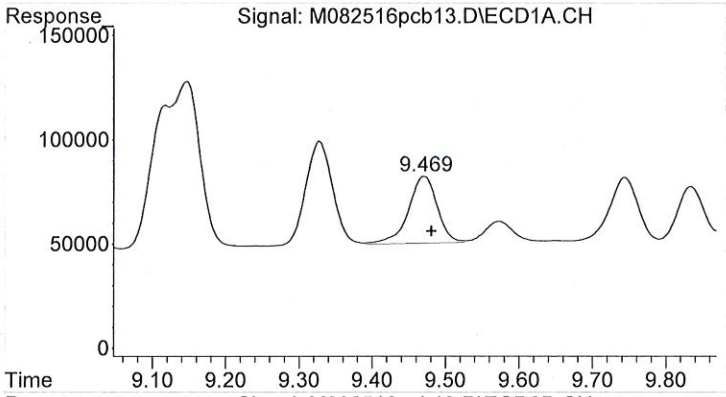
#4 1016-3

R.T.: 9.327 min
Delta R.T.: -0.011 min
Response: 49747
Conc: 69.79 pg/uL



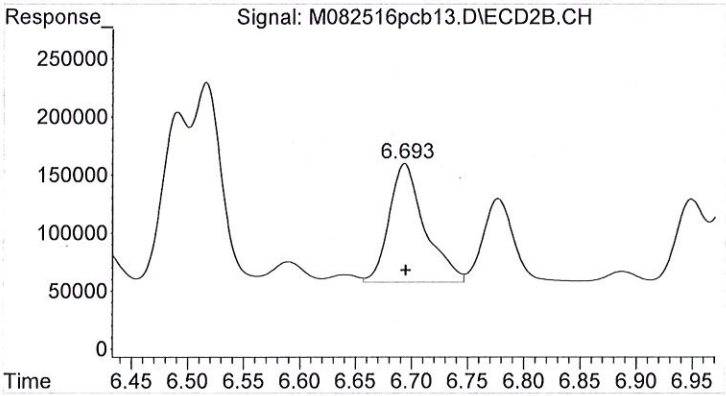
#4 1016-3

R.T.: 6.516 min
Delta R.T.: 0.000 min
Response: 171891
Conc: 100.54 pg/uL



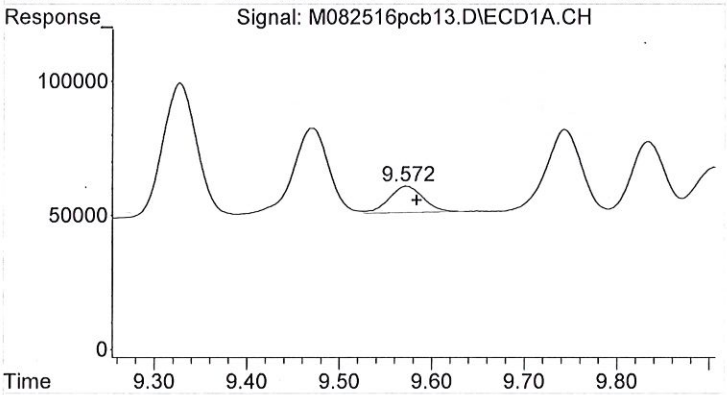
#5 1016-4

R.T.: 9.470 min
Delta R.T.: -0.011 min
Response: 32108
Conc: 67.52 pg/uL



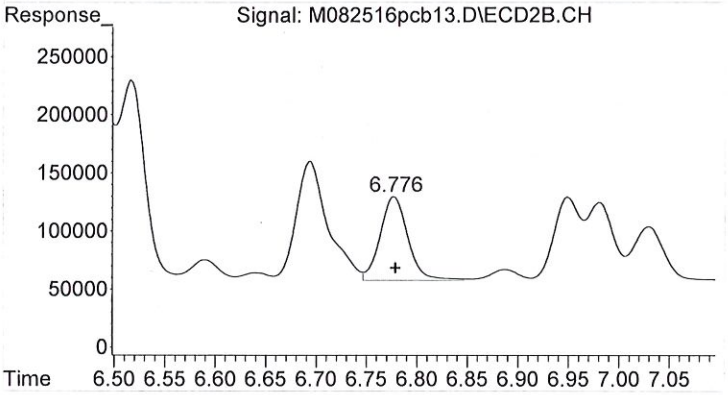
#5 1016-4

R.T.: 6.693 min
Delta R.T.: -0.002 min
Response: 102219
Conc: 101.02 pg/uL



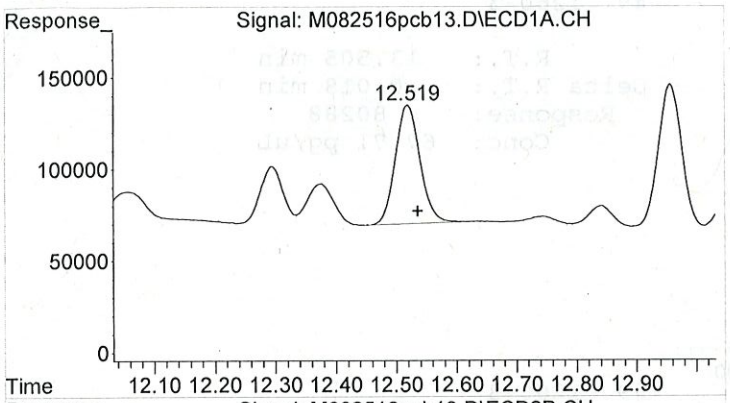
#6 1016-5

R.T.: 9.573 min
Delta R.T.: -0.011 min
Response: 9842
Conc: 67.63 pg/uL



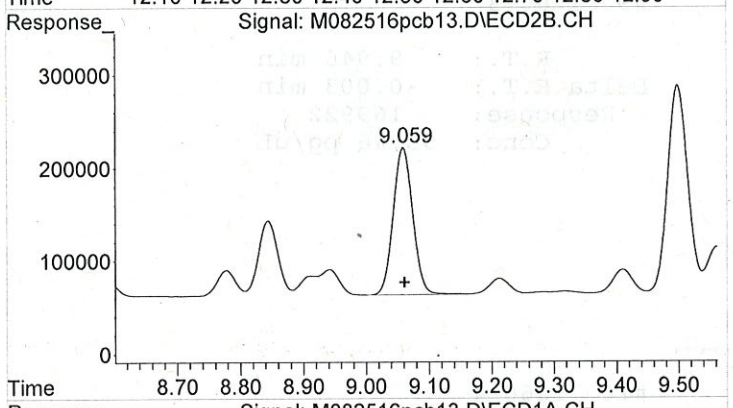
#6 1016-5

R.T.: 6.777 min
Delta R.T.: -0.002 min
Response: 71830
Conc: 99.69 pg/uL



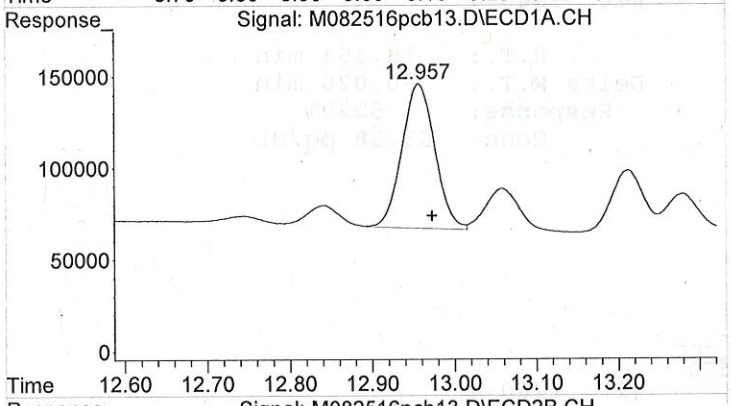
#7 1260-1

R.T.: 12.519 min
Delta R.T.: -0.017 min
Response: 64550
Conc: 63.14 pg/uL



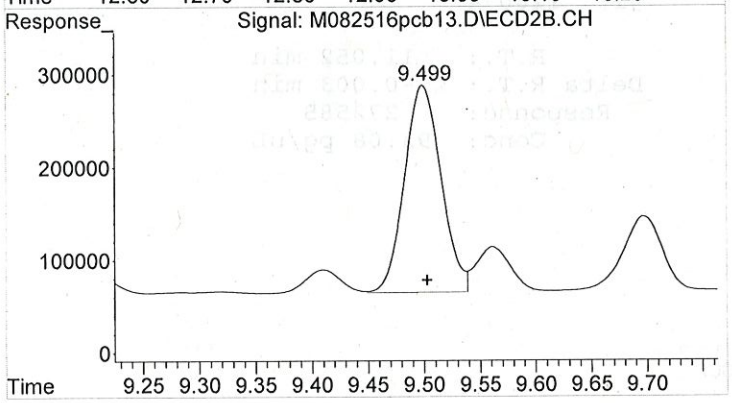
#7 1260-1

R.T.: 9.059 min
Delta R.T.: -0.003 min
Response: 158349
Conc: 98.74 pg/uL



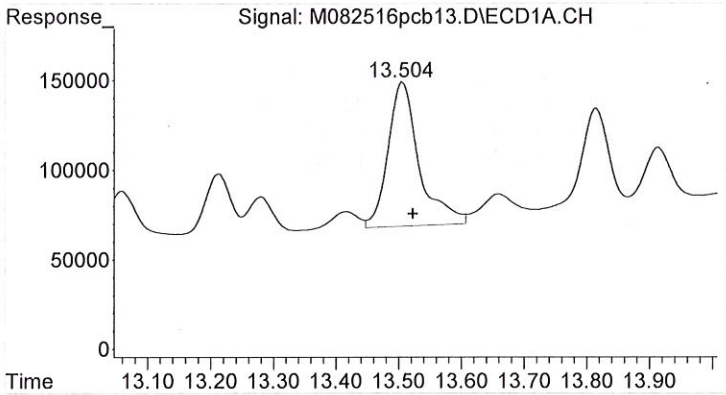
#8 1260-2

R.T.: 12.957 min
Delta R.T.: -0.016 min
Response: 78712
Conc: 65.67 pg/uL



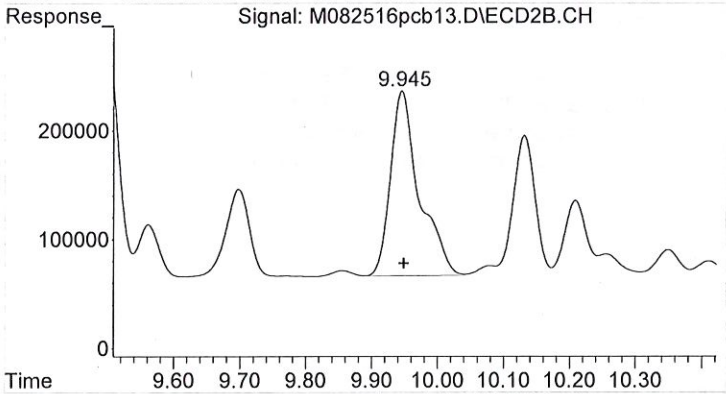
#8 1260-2

R.T.: 9.499 min
Delta R.T.: -0.004 min
Response: 222935
Conc: 96.56 pg/uL



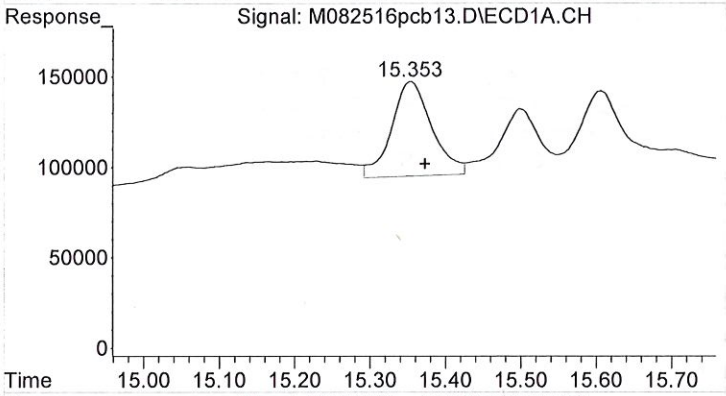
#9 1260-3

R.T.: 13.505 min
Delta R.T.: -0.018 min
Response: 80288
Conc: 67.71 pg/uL



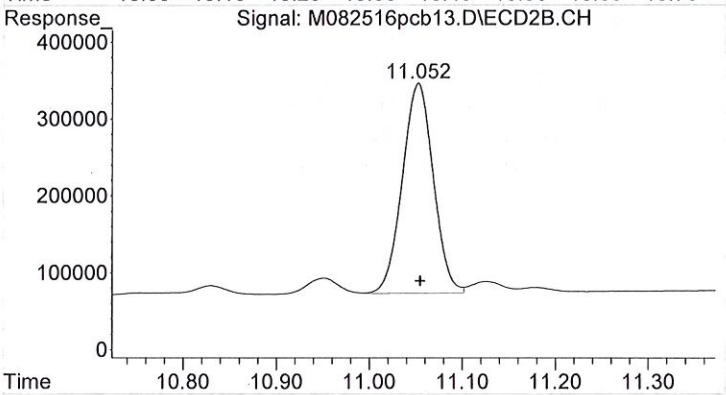
#9 1260-3

R.T.: 9.946 min
Delta R.T.: -0.003 min
Response: 169922
Conc: 95.46 pg/uL



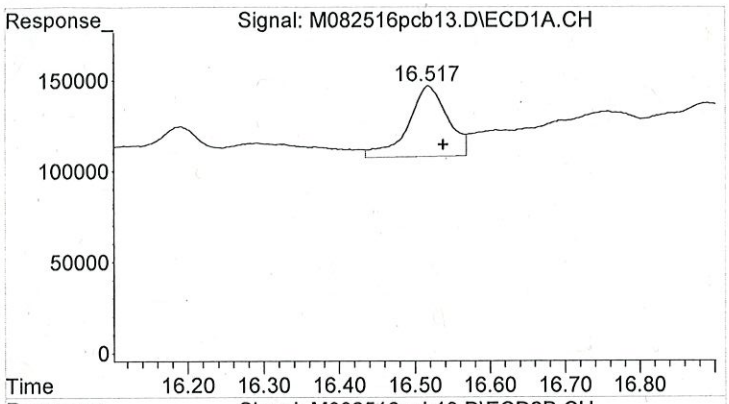
#10 1260-4

R.T.: 15.353 min
Delta R.T.: -0.020 min
Response: 52291
Conc: 65.58 pg/uL



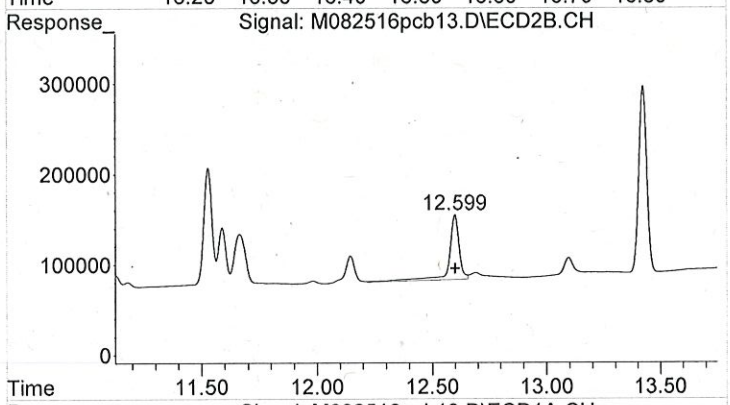
#10 1260-4

R.T.: 11.052 min
Delta R.T.: -0.003 min
Response: 272585
Conc: 93.08 pg/uL



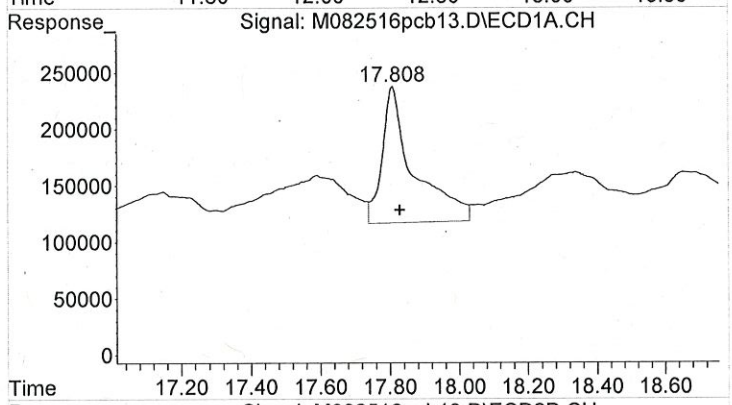
#11 1260-5

R.T.: 16.518 min
Delta R.T.: -0.020 min
Response: 38784
Conc: 80.63 pg/uL



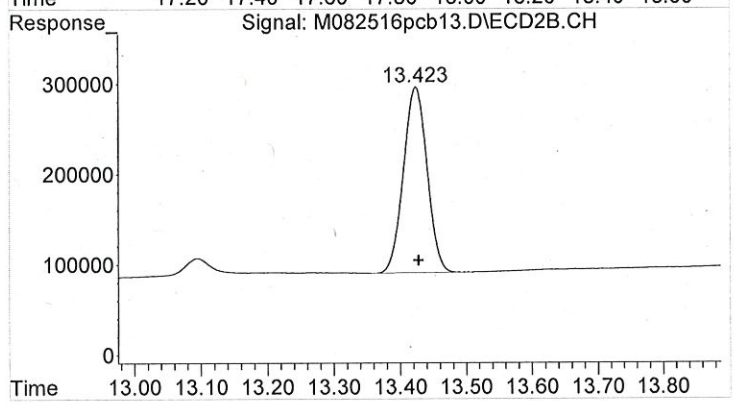
#11 1260-5

R.T.: 12.598 min
Delta R.T.: -0.003 min
Response: 71400
Conc: 95.90 pg/uL



#12 dcb

R.T.: 17.808 min
Delta R.T.: -0.022 min
Response: 120766
Conc: 9.91 pg/uL



#12 dcb

R.T.: 13.424 min
Delta R.T.: -0.004 min
Response: 205791
Conc: 9.23 pg/uL

- Sample packet (by sample number)
    a. Custom Report, if available
    b. Quan Report (Quant – Generate Report – Detailed, only hits)
    c. Detailed Graphics (Detailed Report + Thumbnail)

PCB Sample Results Summary

Sample.....: 16334000
Data File....: M082516pcb07.D
Project.....: OCE-009B
Matrix.....: 42 - Wipe
Analyzed.....: 08/25/2016 10:28
Type.....: 0

Date Prepped...: 8/24/2016
ICAL Date.....: 08/19/2016
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 2

Prepped By.: dwood
Analyst....: DWOOD
CID.....: 0
Acq. Method: M012116PCB2B.M
ASEQ Number: 7

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 10 mL
Dilution.....: 1x D0

Additional Info..: Sky Valley PCB Wipes 10mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M081916PCB1260.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2016 DATA\M082516PCBDW\M082516pcb07.D

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)¹	High Cal (pg)¹	Compound Name	RT	Exp RT	Response		Spike (pg)¹	Amount (pg)¹	Result	Units	Q
1	2.5	250	tmx (1)	6.99	7.00	1037280		50	48	96	%Rec	
12	2.5	250	dcb	17.79	17.83	555179		50	49	97	%Rec	
14	2.5	250	tmx (1) #2	4.89	4.89	1802470		50	53	105	%Rec	
25	2.5	250	dcb #2	13.43	13.43	1061650		50	50	100	%Rec	
2	25	1000	1016 -1	-	-	-	d	-	-	0.25	ug (RL)	U
3	25	1000	1016-2	-	-	-		-	-	0.25	ug (RL)	U
4	25	1000	1016-3	-	-	-		-	-	0.25	ug (RL)	U
5	25	1000	1016-4	-	-	-		-	-	0.25	ug (RL)	U
6	25	1000	1016-5	-	-	-		-	-	0.25	ug (RL)	U
7	25	1000	1260-1	-	-	-		-	-	0.25	ug (RL)	U
8	25	1000	1260-2	-	-	-		-	-	0.25	ug (RL)	U
9	25	1000	1260-3	-	-	-		-	-	0.25	ug (RL)	U
10	25	1000	1260-4	-	-	-	d	-	-	0.25	ug (RL)	U
11	25	1000	1260-5	-	-	-		-	-	0.25	ug (RL)	U
15	25	1000	1016 -1 #2	-	-	-	d	-	-	0.25	ug (RL)	U
16	25	1000	1016-2 #2	-	-	-		-	-	0.25	ug (RL)	U
17	25	1000	1016-3 #2	-	-	-		-	-	0.25	ug (RL)	U
18	25	1000	1016-4 #2	-	-	-		-	-	0.25	ug (RL)	U
19	25	1000	1016-5 #2	-	-	-		-	-	0.25	ug (RL)	U
20	25	1000	1260-1 #2	-	-	-		-	-	0.25	ug (RL)	U
21	25	1000	1260-2 #2	-	-	-		-	-	0.25	ug (RL)	U
22	25	1000	1260-3 #2	-	-	-		-	-	0.25	ug (RL)	U
23	25	1000	1260-4 #2	-	-	-	d	-	-	0.25	ug (RL)	U
24	25	1000	1260-5 #2	-	-	-		-	-	0.25	ug (RL)	U

CAS#	Name	Avg	Unit	n	%RSD	Column RPD²
12674112	1016 Column 1	0.25	ug (RL)	0	NA	Results will be reported from Column 2
12674112	1016 Column 2	0.25	ug (RL)	0	NA	
11096825	1260 Column 1	0.25	ug (RL)	0	NA	
11096825	1260 Column 2	0.25	ug (RL)	0	NA	

¹'Amount' units are pg or pg/uL on column. ²RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M082516PCBDW\
Data File : M082516pcb07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Aug 2016 10:28 am
Operator : DWOOD
Sample : 16334000
Misc : Sky Valley PCB Wipes 10mL fv
ALS Vial : 0 (Sig #1); 7 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 19 14:38:21 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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)	6.985	4.886	1037275	1802473	48.182	52.560
12) S2 dcb	17.787	13.426	555179	1061648	48.555	49.808
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	0.000	0.000	0	0	N.D.	N.D.
10) L2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
11) L2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

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

ww
9/19/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M082516PCBDW\
Data File : M082516pcb07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Aug 2016 10:28 am
Operator : DWOOD
Sample : 16334000
Misc : Sky Valley PCB Wipes 10mL fv
ALS Vial : 0 (Sig #1); 7 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 19 09:46:46 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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)	6.985	4.886	1037275	1802473	48.182	52.560
12)	S2 dcb	17.787	13.426	555179	1061648	48.555	49.808
	Target Compounds						
2)	L1 1016 -1	0.000	5.441	0	~~22736~~	N.D.	24.822 #
3)	L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4)	L1 1016-3	0.000	0.000	0	0	N.D.	N.D.
5)	L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6)	L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016 -1			0	22736	N.D.	24.822
	Average 1016 -1					0.000	24.822
7)	L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8)	L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9)	L2 1260-3	0.000	0.000	0	0	N.D.	N.D.
10)	L2 1260-4	0.000	11.058	0	~~529~~	N.D.	N.D.
11)	L2 1260-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000

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

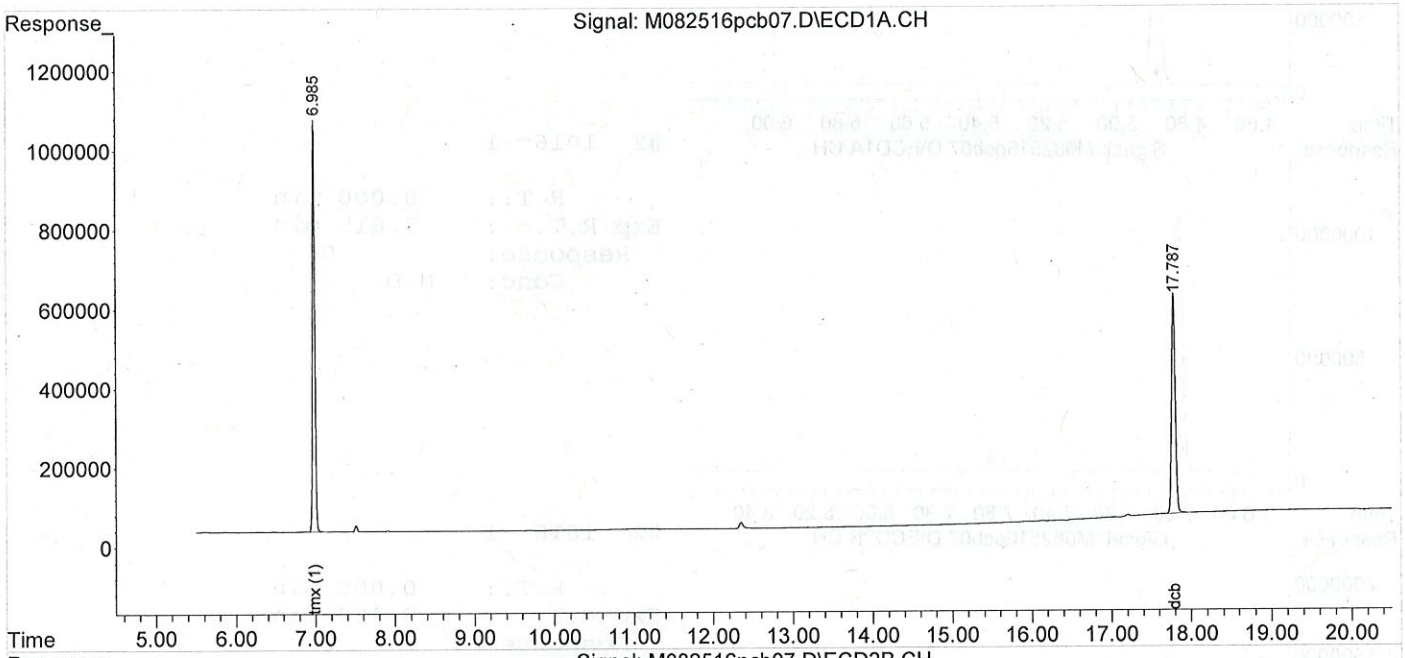
9/17/16

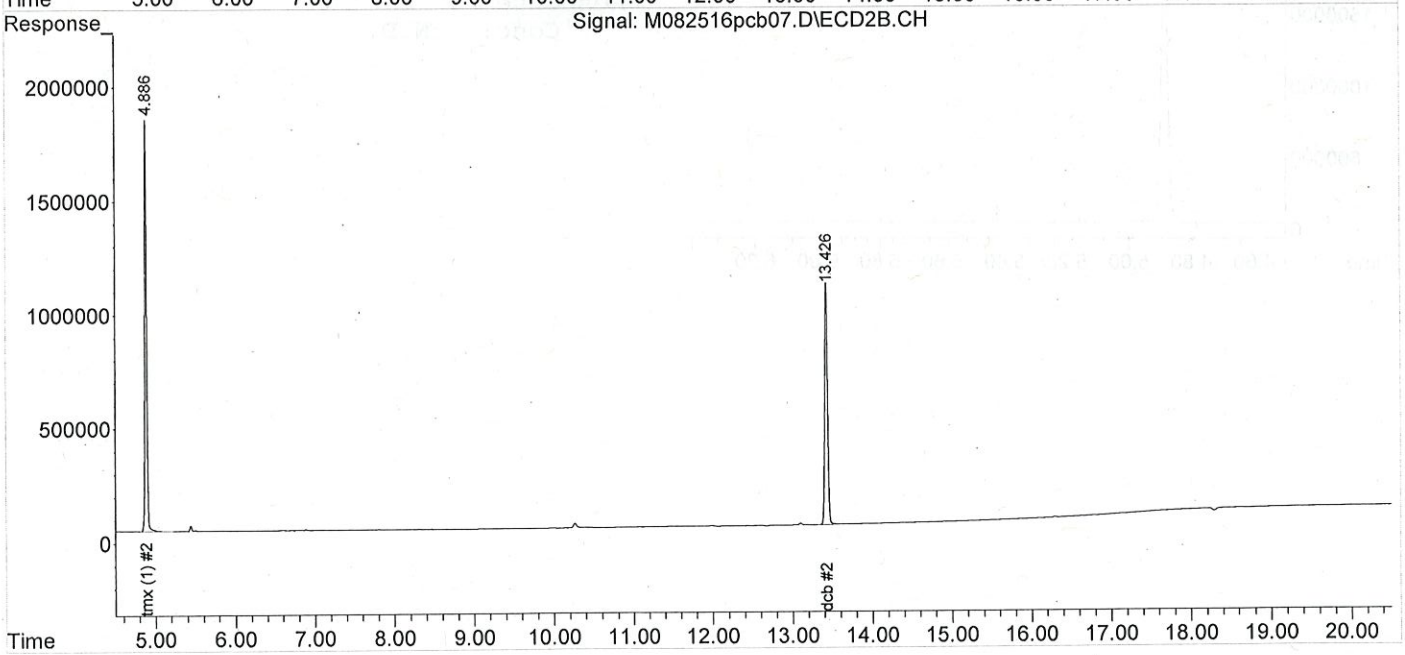
Quantitation Report (QT Reviewed)

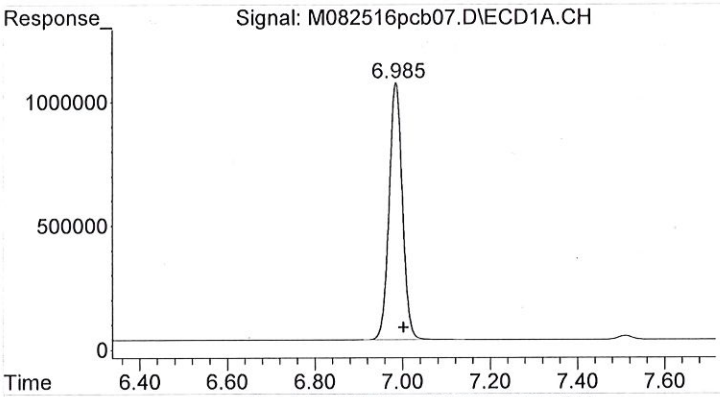
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M082516PCBDW\
Data File : M082516pcb07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Aug 2016 10:28 am
Operator : DWOOD
Sample : 16334000
Misc : Sky Valley PCB Wipes 10mL fv
ALS Vial : 0 (Sig #1); 7 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 19 14:38:21 2016
Quant Method : J:\Organics\Minerva\Methods\M081916PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Aug 19 13:11:44 2016
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

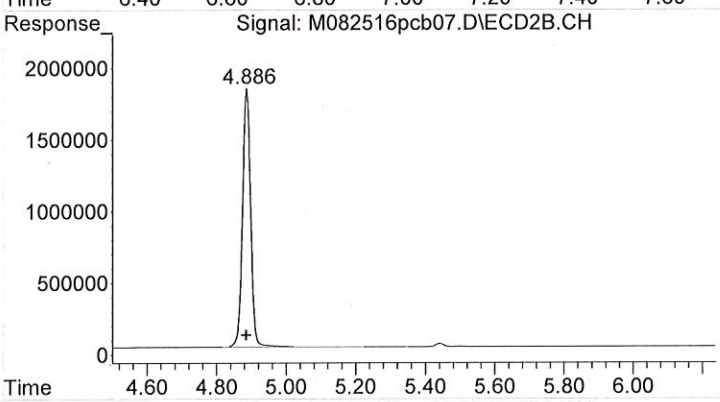






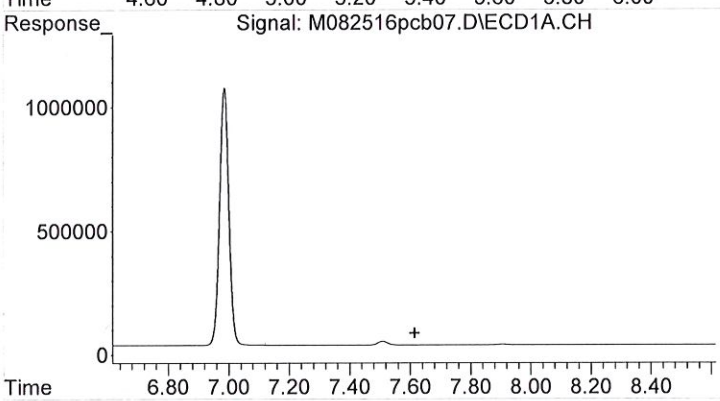
#1 tmx (1)

R.T.: 6.985 min
Delta R.T.: -0.018 min
Response: 1037275
Conc: 48.18 pg/uL



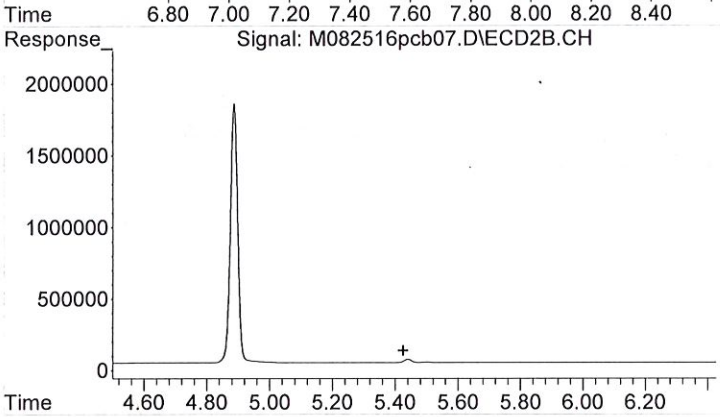
#1 tmx (1)

R.T.: 4.886 min
Delta R.T.: 0.000 min
Response: 1802473
Conc: 52.56 pg/uL



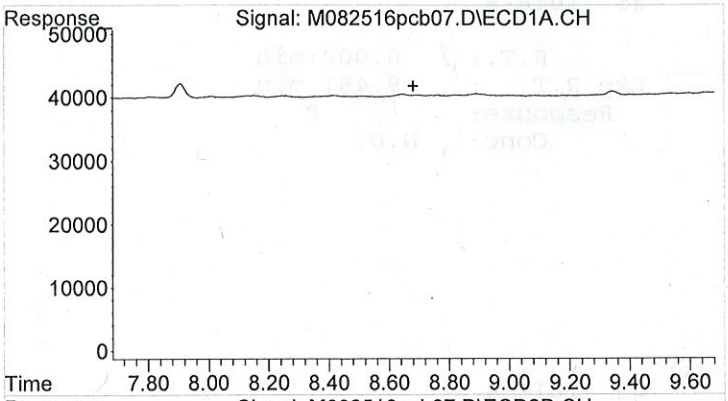
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.615 min
Response: 0
Conc: N.D.



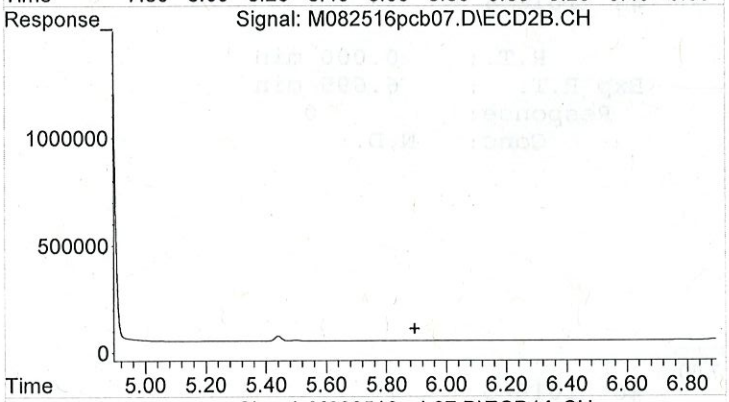
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.427 min
Response: 0
Conc: N.D.



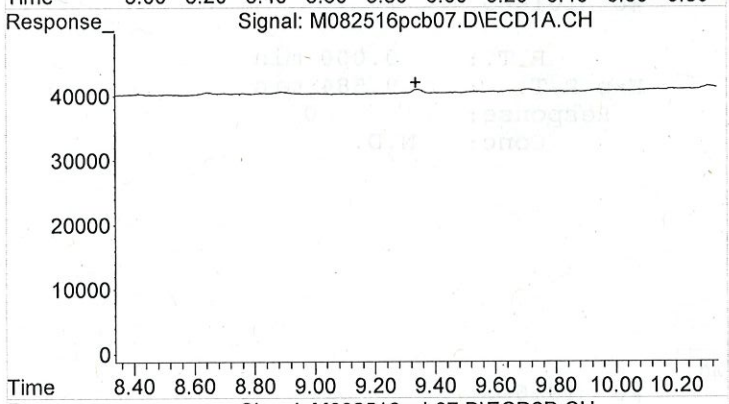
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.682 min
Response: 0
Conc: N.D.



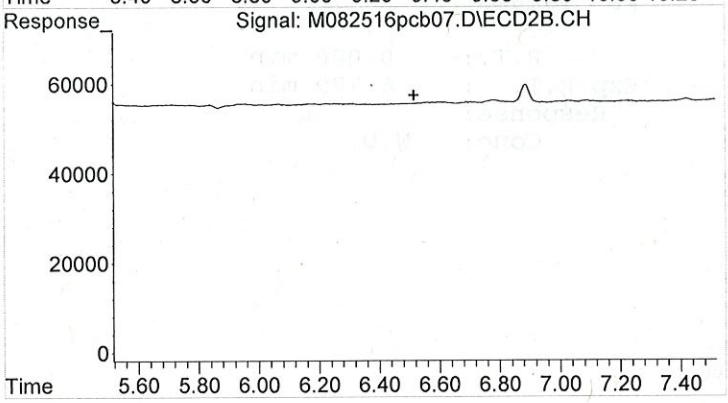
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.895 min
Response: 0
Conc: N.D.



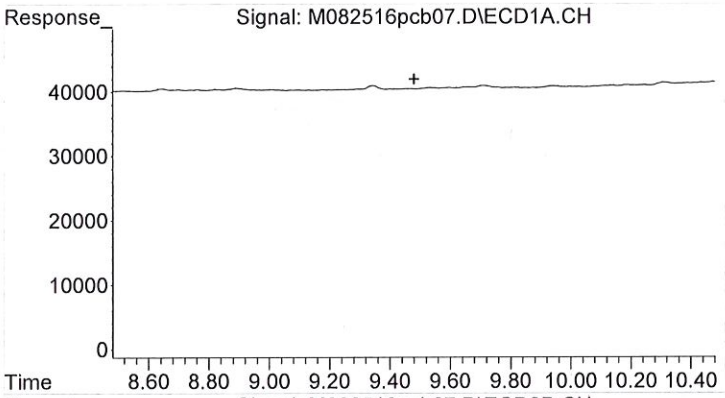
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.338 min
Response: 0
Conc: N.D.



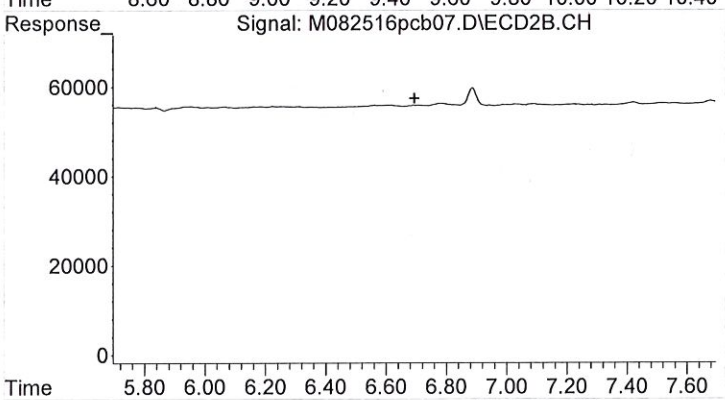
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.517 min
Response: 0
Conc: N.D.



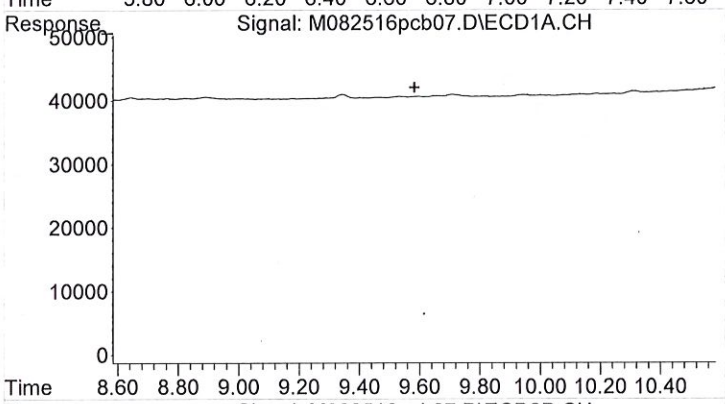
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.481 min
Response: 0
Conc: N.D.



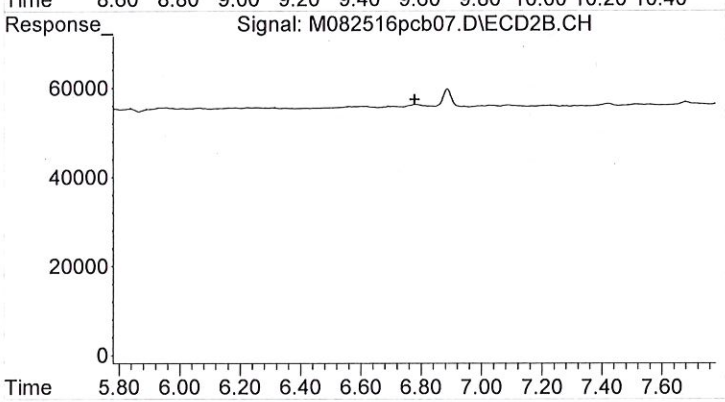
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.695 min
Response: 0
Conc: N.D.



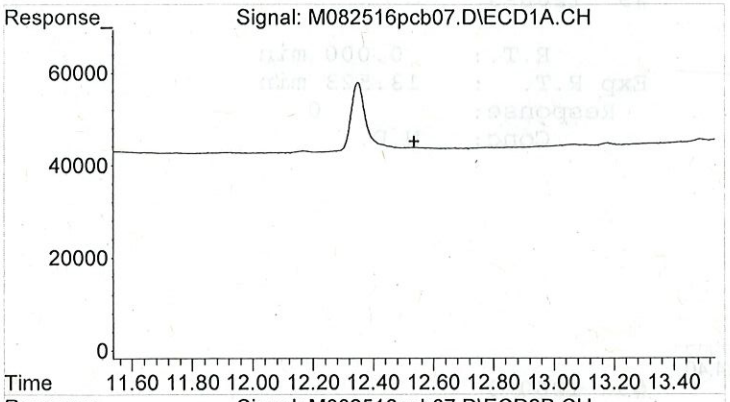
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.584 min
Response: 0
Conc: N.D.



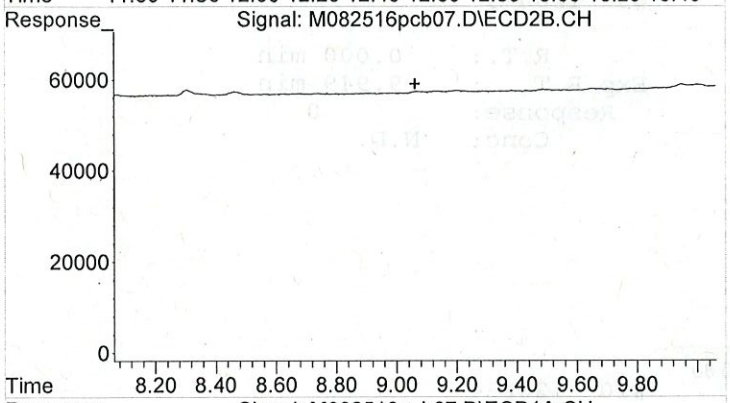
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.779 min
Response: 0
Conc: N.D.



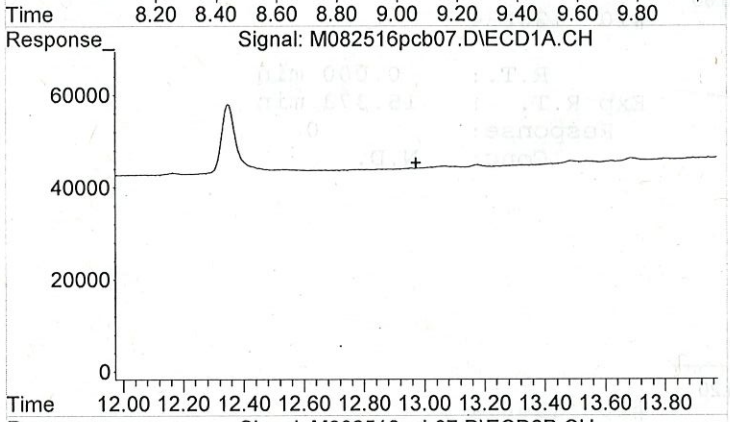
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.536 min
Response: 0
Conc: N.D.



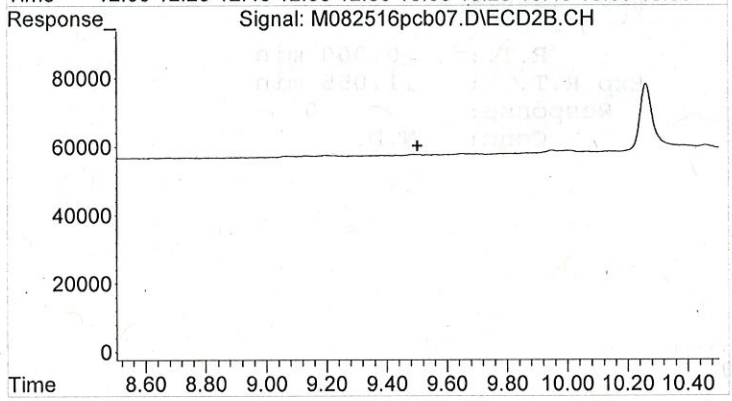
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 9.062 min
Response: 0
Conc: N.D.



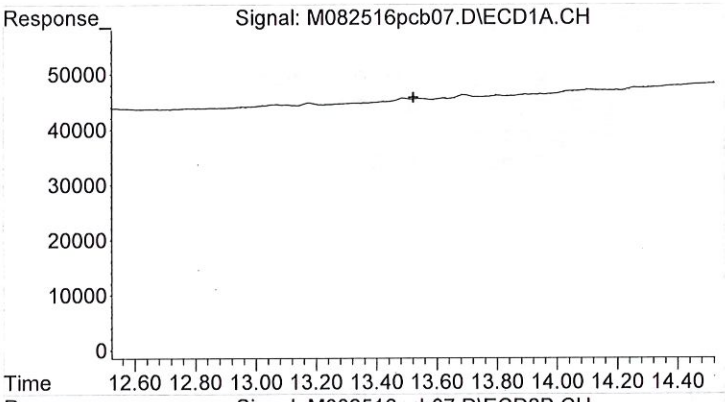
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 12.973 min
Response: 0
Conc: N.D.



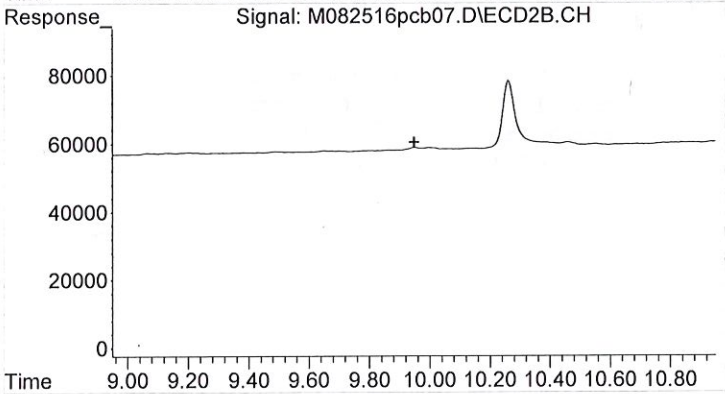
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.503 min
Response: 0
Conc: N.D.



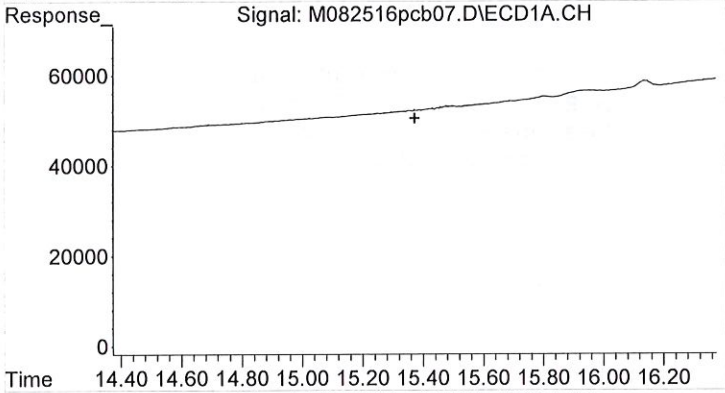
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.523 min
Response: 0
Conc: N.D.



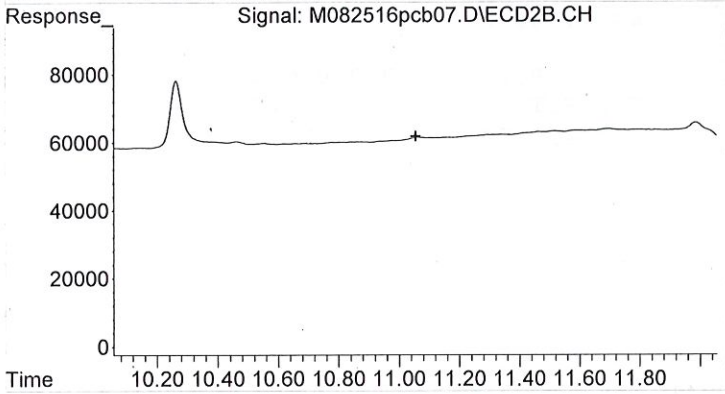
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 9.949 min
Response: 0
Conc: N.D.



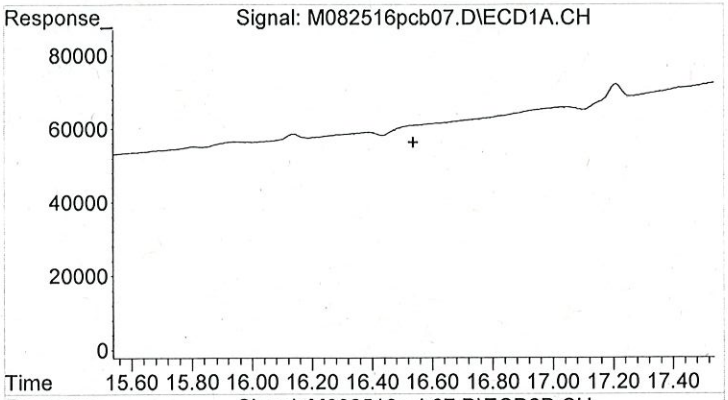
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.373 min
Response: 0
Conc: N.D.



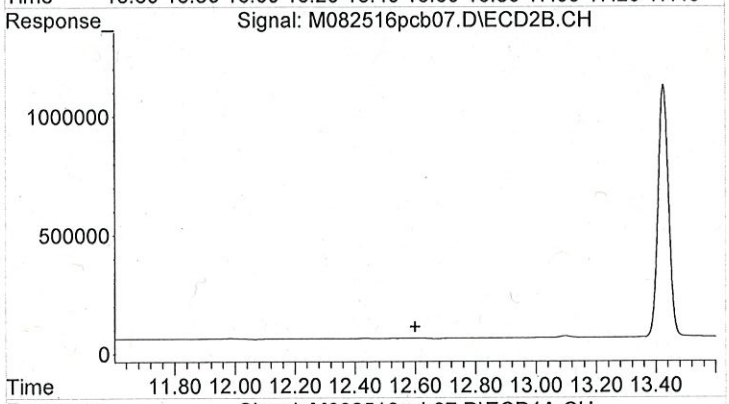
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 11.055 min
Response: 0
Conc: N.D.



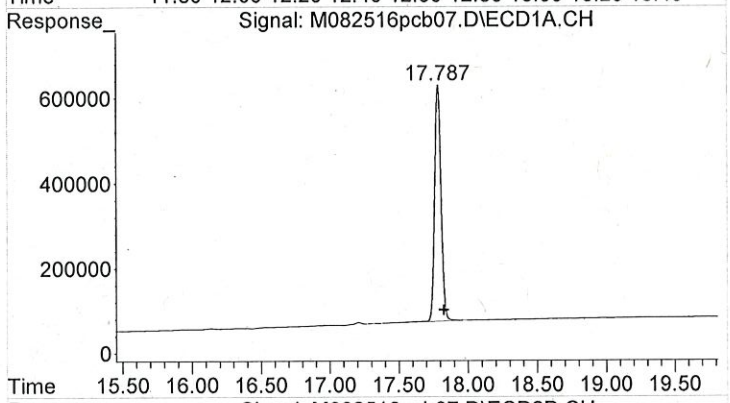
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.538 min
Response: 0
Conc: N.D.



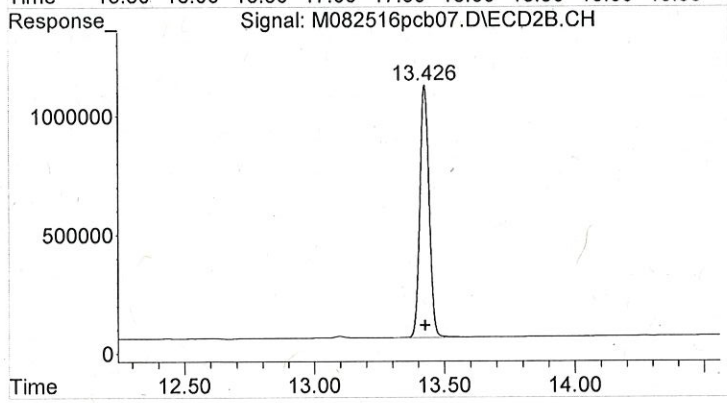
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.601 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 17.787 min
Delta R.T.: -0.043 min
Response: 555179
Conc: 48.56 pg/uL



#12 dcb

R.T.: 13.426 min
Delta R.T.: -0.002 min
Response: 1061648
Conc: 49.81 pg/uL