- 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....: M032817a02.D
Dataname.....: 87PCB062716I
Analyzed.....: 03/28/2017 17:19

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

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

Datafile path....: J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\M032817a02.D
DP Method path...: J:\Organics\Minerva\Methods\M032117PCB1260.M

PCB 1016/1260 Cont Cal 100 pg/uL

| CAS # | Compound | RT | Exp RT | Area | Spike (expected) | Amount (pg) | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|
| Surrogate | | | | | Criteria range: <±20%D | | | |
| | tmx (1) | 6.98 | 6.99 | 309029 | 10 | 11.2 | 12 | |
| | dcb | 17.77 | 17.79 | 188483 | 10 | 11.7 | 17 | |
| | tmx (1) #2 | 4.80 | 4.80 | 538334 | 10 | 12.3 | 23 | > ±20% |
| | dcb #2 | 13.28 | 13.28 | 312031 | 10 | 12.9 | 29 | > ±20% |
| Target | | | | | Criteria range: <±20%D | | | |
| | 1016 -1 | 7.59 | 7.60 | 56373 | 100 | 109 | 8.7 | |
| | 1016-2 | 8.66 | 8.66 | 70419 | 100 | 114 | 14 | |
| | 1016-3 | 9.31 | 9.31 | 88395 | 100 | 114 | 14 | |
| | 1016-4 | 9.45 | 9.46 | 57363 | 100 | 113 | 13 | |
| | 1016-5 | 9.56 | 9.56 | 20121 | 100 | 106 | 6.5 | |
| | 1260-1 | 12.49 | 12.50 | 134879 | 100 | 113 | 13 | |
| | 1260-2 | 12.93 | 12.94 | 157461 | 100 | 114 | 14 | |
| | 1260-3 | 13.48 | 13.49 | 158107 | 100 | 113 | 13 | |
| | 1260-4 | 15.33 | 15.34 | 108872 | 100 | 111 | 11 | |
| | 1260-5 | 16.49 | 16.50 | 73287 | 100 | 118 | 18 | |
| | 1016 -1 #2 | 5.34 | 5.34 | 102479 | 100 | 123 | 23 | > ±20% |
| | 1016-2 #2 | 5.81 | 5.81 | 167371 | 100 | 116 | 16 | |
| | 1016-3 #2 | 6.42 | 6.42 | 226186 | 100 | 116 | 16 | |
| | 1016-4 #2 | 6.60 | 6.60 | 133134 | 100 | 118 | 18 | |
| | 1016-5 #2 | 6.68 | 6.68 | 95658 | 100 | 118 | 18 | |
| | 1260-1 #2 | 8.94 | 8.94 | 225335 | 100 | 122 | 22 | > ±20% |
| | 1260-2 #2 | 9.38 | 9.38 | 322742 | 100 | 124 | 24 | > ±20% |
| | 1260-3 #2 | 9.82 | 9.82 | 240170 | 100 | 120 | 20 | > ±20% |
| | 1260-4 #2 | 10.92 | 10.92 | 397817 | 100 | 121 | 21 | > ±20% |
| | 1260-5 #2 | 12.46 | 12.46 | 98576 | 100 | 121 | 21 | > ±20% |

| Average %Difference: | %Diff | |
|---|---|---|
| 1016 Column 1 (n=5) | 11 | |
| 1016 Column 2 (n=5) | 18 | |
| 1260 Column 1 (n=5) | 14 | |
| 1260 Column 2 (n=5) | 22 | >±20% |

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 5:19 pm
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 08:35:28 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.983 | 4.799 | 309029 | 538334 | 11.231 | 12.305 |
| 12) S2 dcb | 17.775 | 13.282 | 188483 | 312031 | 11.709 | 12.889 |
| Target Compounds | | | | | | |
| 2) L1 1016 -1 | 7.593 | 5.343 | 56373 | 102479 | 108.740 | 122.527 |
| 3) L1 1016-2 | 8.657 | 5.806 | 70419 | 167371 | 113.615 | 115.655 |
| 4) L1 1016-3 | 9.310 | 6.421 | 88395 | 226186 | 114.250 | 115.643 |
| 5) L1 1016-4 | 9.454 | 6.596 | 57363 | 133134 | 112.682 | 117.925 |
| 6) L1 1016-5 | 9.555 | 6.678 | 20121 | 95658 | 106.496 | 117.826 |
| Sum 1016 -1 | | | 292671 | 724829 | 555.784 | 589.575 |
| Average 1016 -1 | | | | | 111.157 | 117.915 |
| 7) L2 1260-1 | 12.494 | 8.939 | 134879 | 225335 | 113.402 | 122.348 |
| 8) L2 1260-2 | 12.931 | 9.377 | 157461 | 322742 | 113.641 | 124.024 |
| 9) L2 1260-3 | 13.479 | 9.820 | 158107 | 240170 | 113.060 | 120.167 |
| 10) L2 1260-4 | 15.327 | 10.921 | 108872 | 397817 | 111.482 | 120.526 |
| 11) L2 1260-5 | 16.488 | 12.461 | 73287 | 98576 | 117.889 | 120.725 |
| Sum 1260-1 | | | 632606 | 1284640 | 569.473 | 607.790 |
| Average 1260-1 | | | | | 113.895 | 121.558 |

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

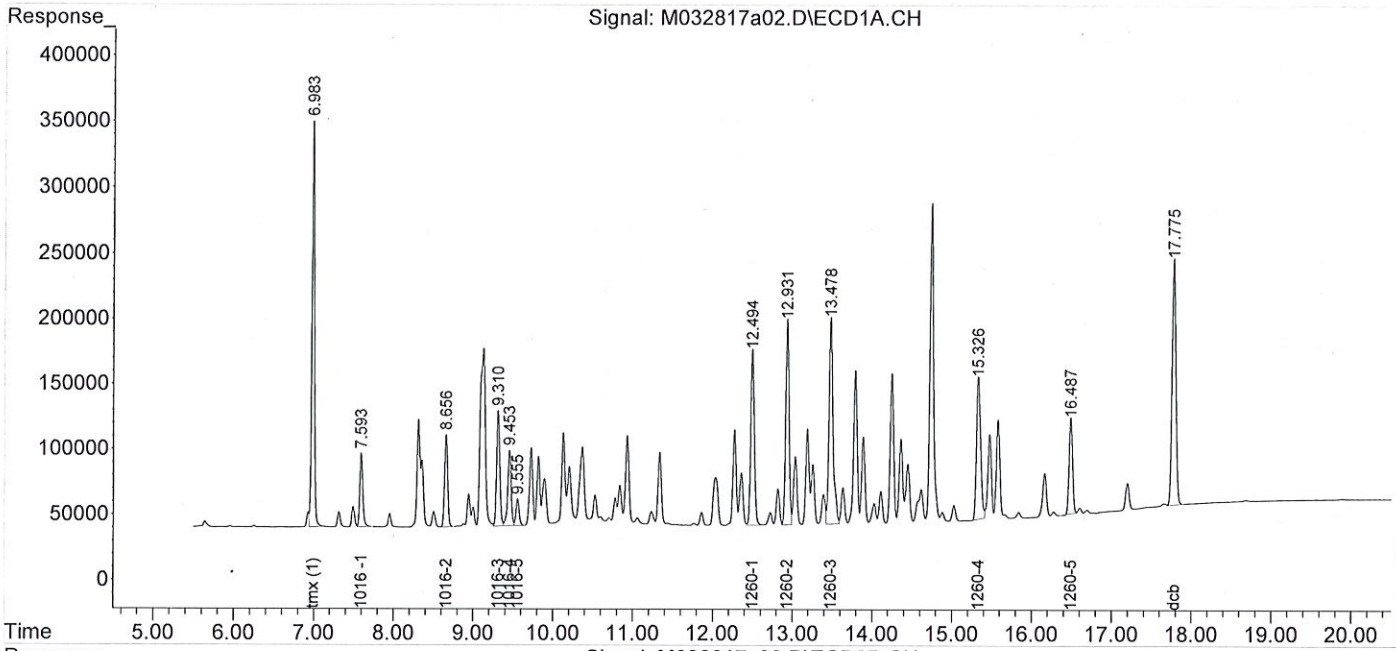
ww
3/31/17

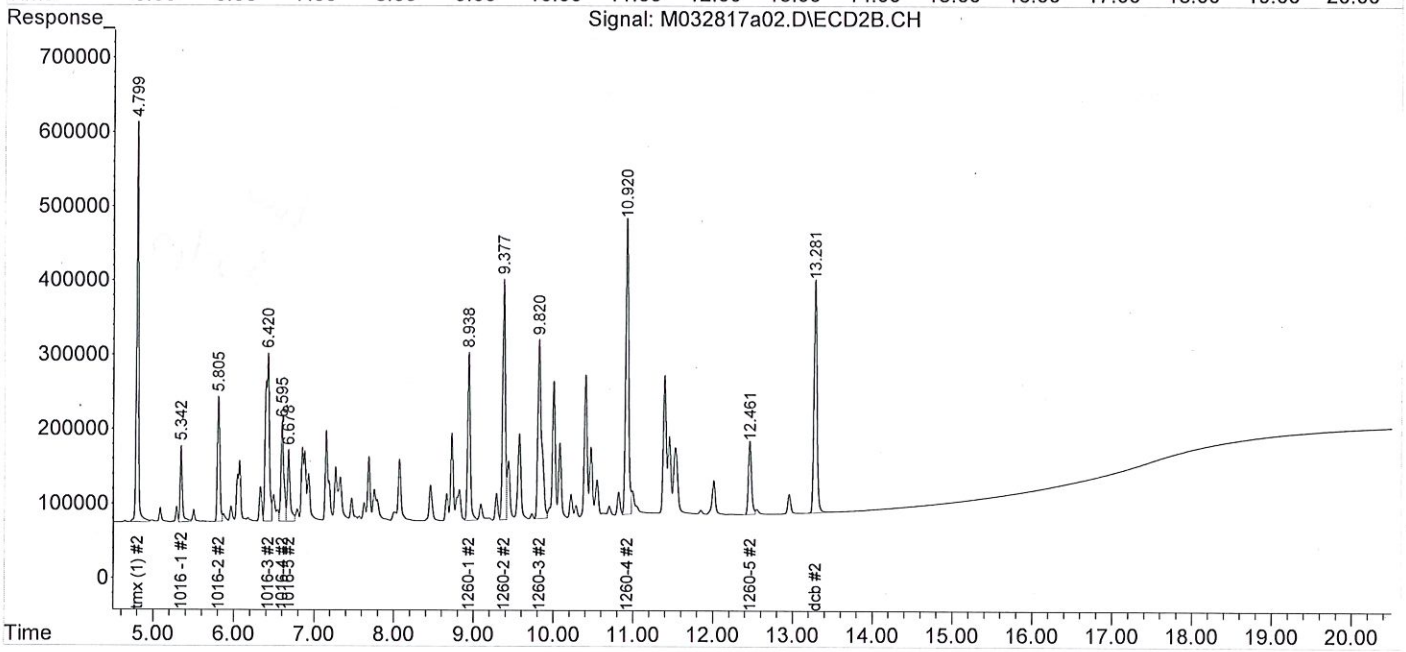
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 5:19 pm
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 08:35:28 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 17:19 pm
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

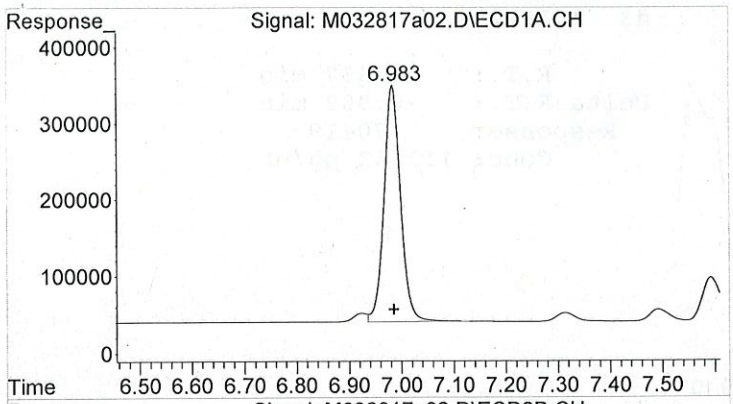
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 08:35:28 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.983 | 4.799 | 309029 | 538334 | 11.231 | 12.305 |
| 12) S2 dcb | 17.775 | 13.282 | 188483 | 312031 | 11.709 | 12.889 |
| Target Compounds | | | | | | |
| 2) L1 1016 -1 | 7.593 | 5.343 | 56373 | 102479 | 108.740 | 122.527 |
| 3) L1 1016-2 | 8.657 | 5.806 | 70419 | 167371 | 113.615 | 115.655 |
| 4) L1 1016-3 | 9.310 | 6.421 | 88395 | 226186 | 114.250 | 115.643 |
| 5) L1 1016-4 | 9.454 | 6.596 | 57363 | 133134 | 112.682 | 117.925 |
| 6) L1 1016-5 | 9.555 | 6.678 | 20121 | 95658 | 106.496 | 117.826 |
| Sum 1016 -1 | | | 292671 | 724829 | 555.784 | 589.575 |
| Average 1016 -1 | | | | | 111.157 | 117.915 |
| 7) L2 1260-1 | 12.494 | 8.939 | 134879 | 225335 | 113.402 | 122.348 |
| 8) L2 1260-2 | 12.931 | 9.377 | 157461 | 322742 | 113.641 | 124.024 |
| 9) L2 1260-3 | 13.479 | 9.820 | 158107 | 240170 | 113.060 | 120.167 |
| 10) L2 1260-4 | 15.327 | 10.921 | 108872 | 397817 | 111.482 | 120.526 |
| 11) L2 1260-5 | 16.488 | 12.461 | 73287 | 98576 | 117.889 | 120.725 |
| Sum 1260-1 | | | 632606 | 1284640 | 569.473 | 607.790 |
| Average 1260-1 | | | | | 113.895 | 121.558 |

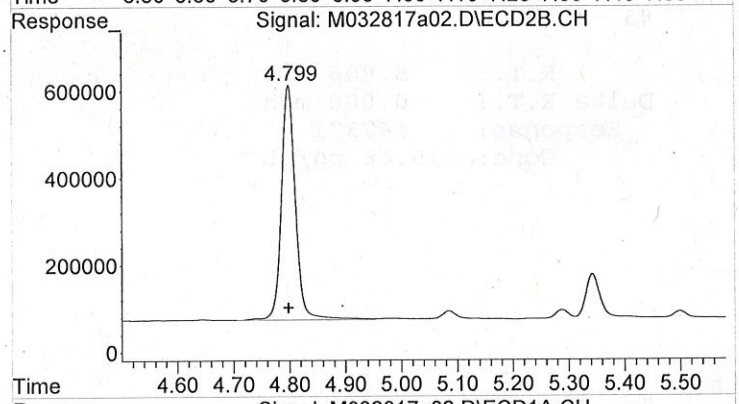
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

hw
3/30/17



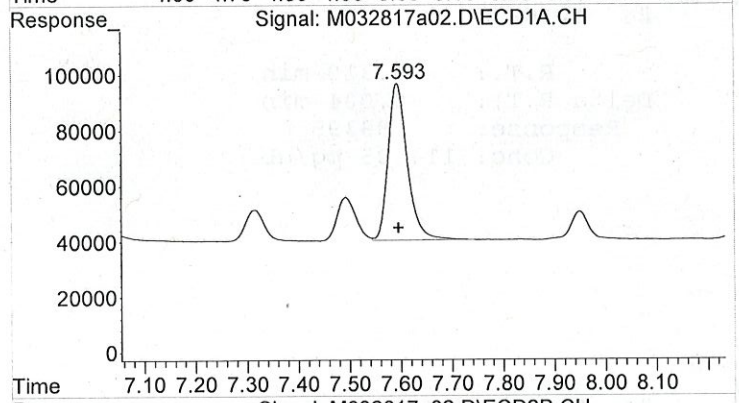

#1 tmx (1)

R.T.: 6.983 min
Delta R.T.: -0.003 min
Response: 309029
Conc: 11.23 pg/uL



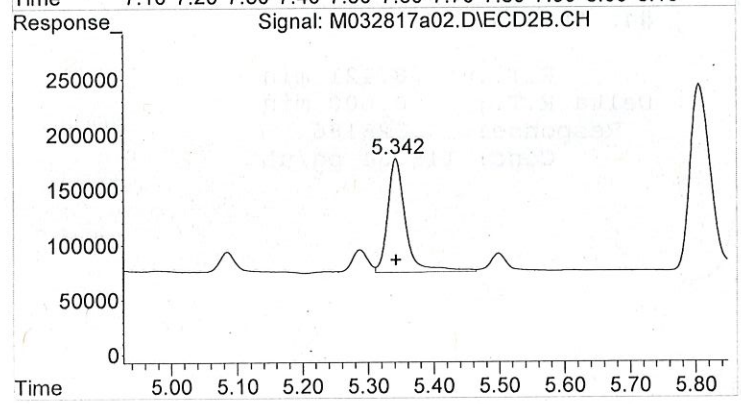

#1 tmx (1)

R.T.: 4.799 min
Delta R.T.: 0.000 min
Response: 538334
Conc: 12.30 pg/uL



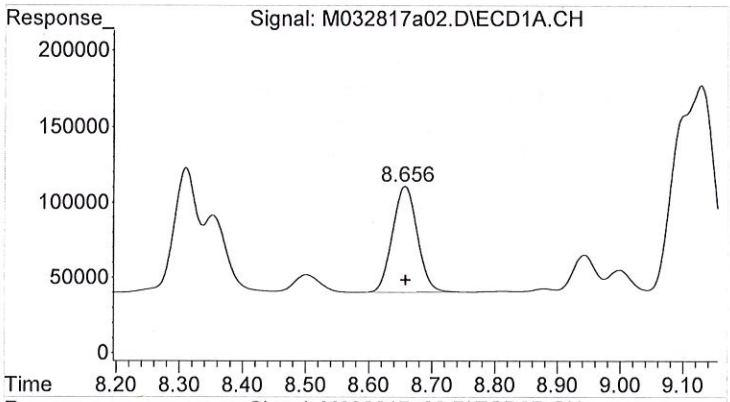

#2 1016 -1

R.T.: 7.593 min
Delta R.T.: -0.003 min
Response: 56373
Conc: 108.74 pg/uL



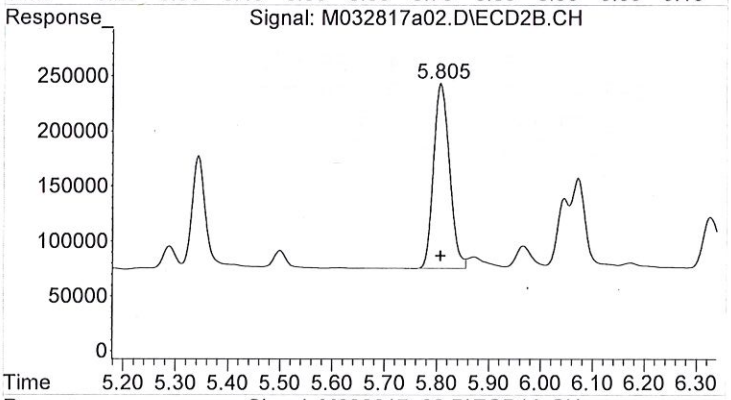

#2 1016 -1

R.T.: 5.343 min
Delta R.T.: 0.000 min
Response: 102479
Conc: 122.53 pg/uL



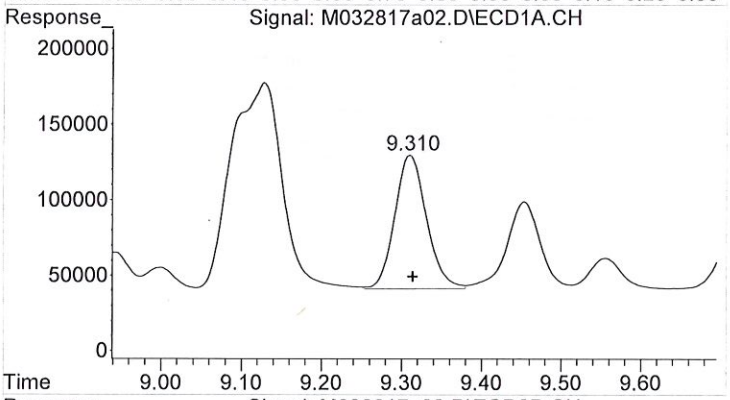

#3 1016-2

R.T.: 8.657 min
Delta R.T.: -0.002 min
Response: 70419
Conc: 113.62 pg/uL



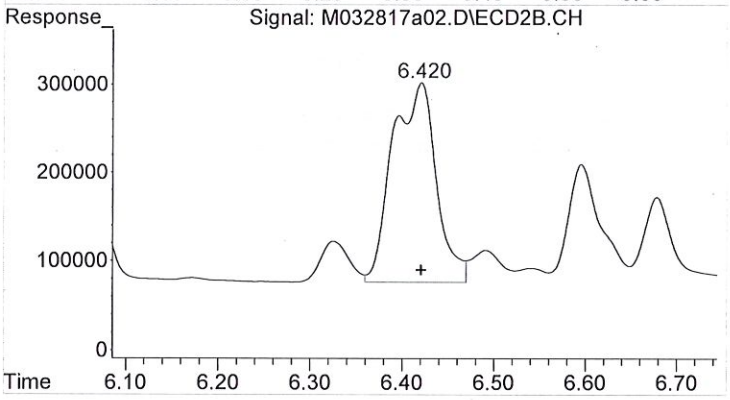

#3 1016-2

R.T.: 5.806 min
Delta R.T.: 0.000 min
Response: 167371
Conc: 115.66 pg/uL



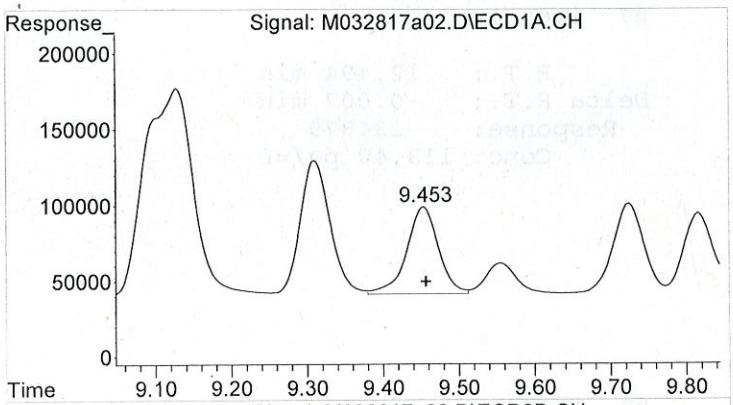

#4 1016-3

R.T.: 9.310 min
Delta R.T.: -0.004 min
Response: 88395
Conc: 114.25 pg/uL



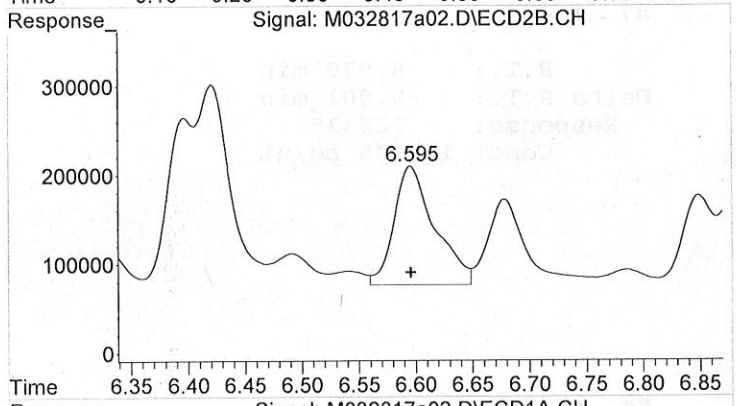

#4 1016-3

R.T.: 6.421 min
Delta R.T.: 0.000 min
Response: 226186
Conc: 115.64 pg/uL



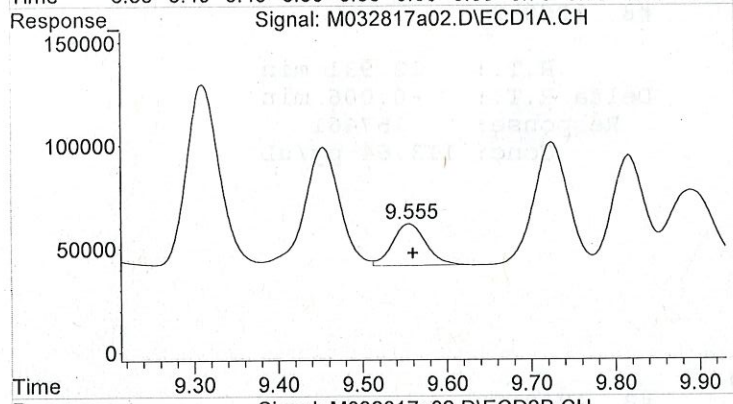

#5 1016-4

R.T.: 9.454 min
Delta R.T.: -0.003 min
Response: 57363
Conc: 112.68 pg/uL



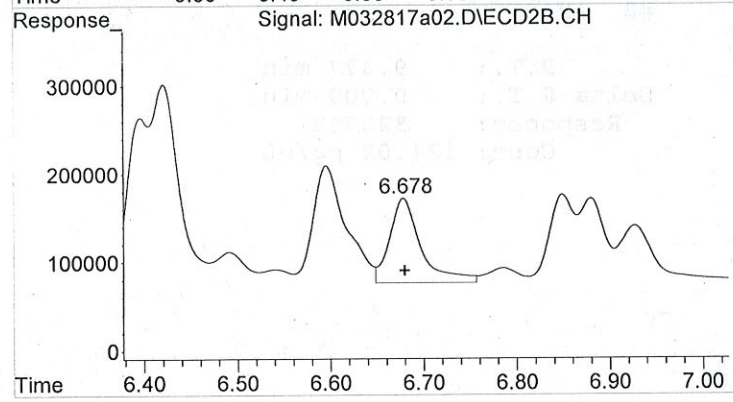

#5 1016-4

R.T.: 6.596 min
Delta R.T.: 0.000 min
Response: 133134
Conc: 117.92 pg/uL



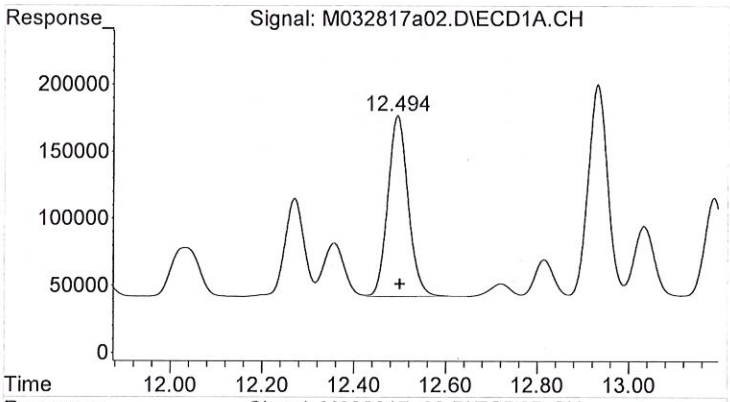

#6 1016-5

R.T.: 9.555 min
Delta R.T.: -0.005 min
Response: 20121
Conc: 106.50 pg/uL



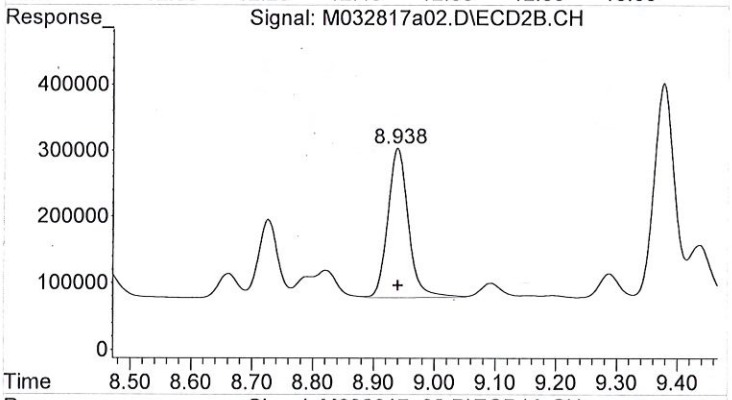

#6 1016-5

R.T.: 6.678 min
Delta R.T.: -0.002 min
Response: 95658
Conc: 117.83 pg/uL



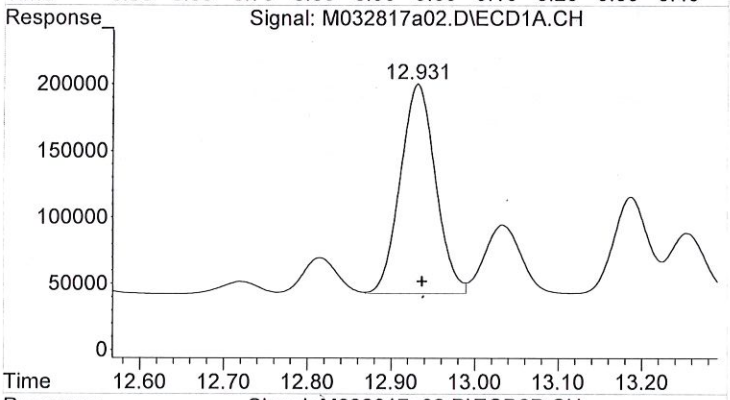

#7 1260-1

R.T.: 12.494 min
Delta R.T.: -0.007 min
Response: 134879
Conc: 113.40 pg/uL



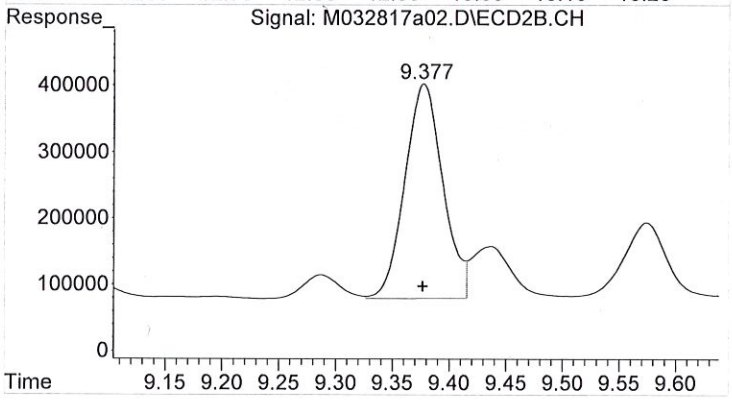

#7 1260-1

R.T.: 8.939 min
Delta R.T.: -0.001 min
Response: 225335
Conc: 122.35 pg/uL



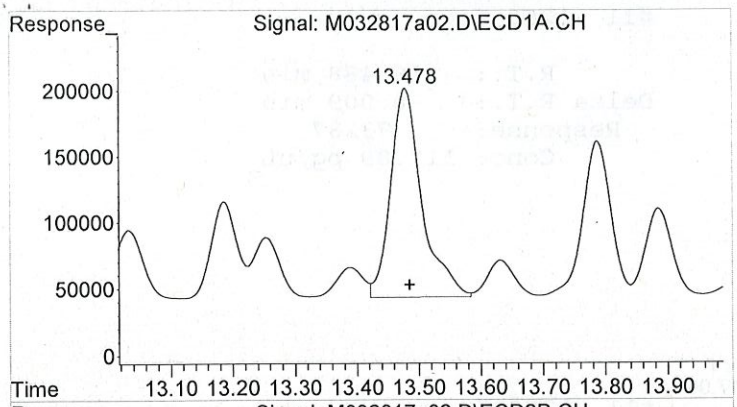

#8 1260-2

R.T.: 12.931 min
Delta R.T.: -0.006 min
Response: 157461
Conc: 113.64 pg/uL



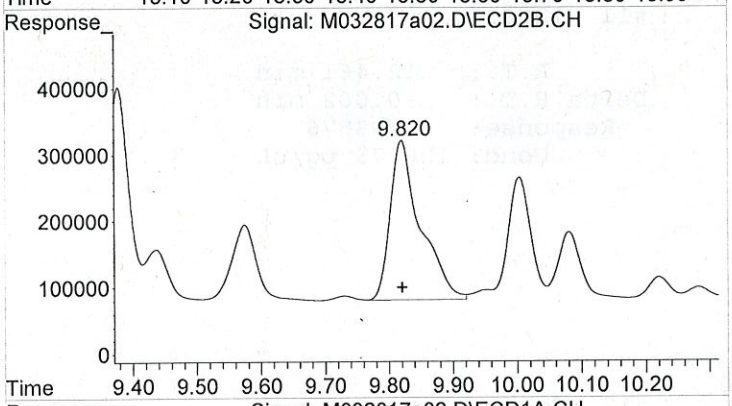

#8 1260-2

R.T.: 9.377 min
Delta R.T.: 0.000 min
Response: 322742
Conc: 124.02 pg/uL



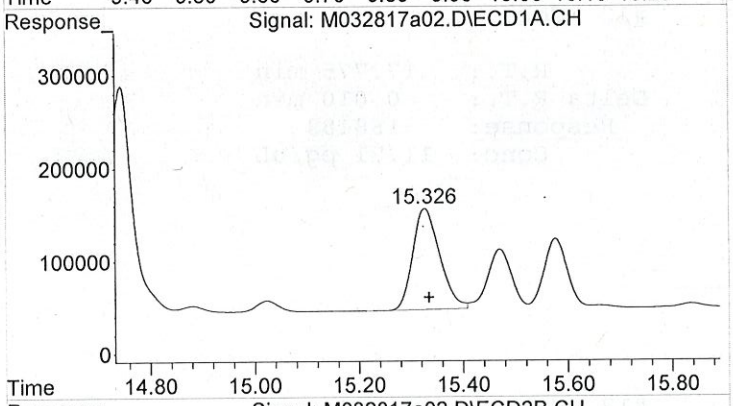

#9 1260-3

R.T.: 13.479 min
Delta R.T.: -0.007 min
Response: 158107
Conc: 113.06 pg/uL



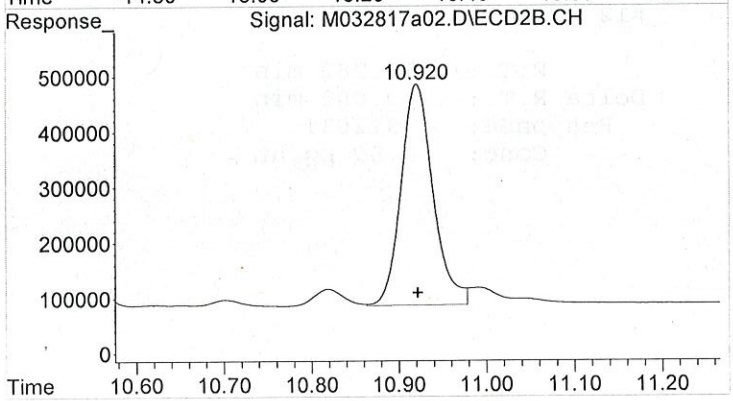

#9 1260-3

R.T.: 9.820 min
Delta R.T.: 0.000 min
Response: 240170
Conc: 120.17 pg/uL



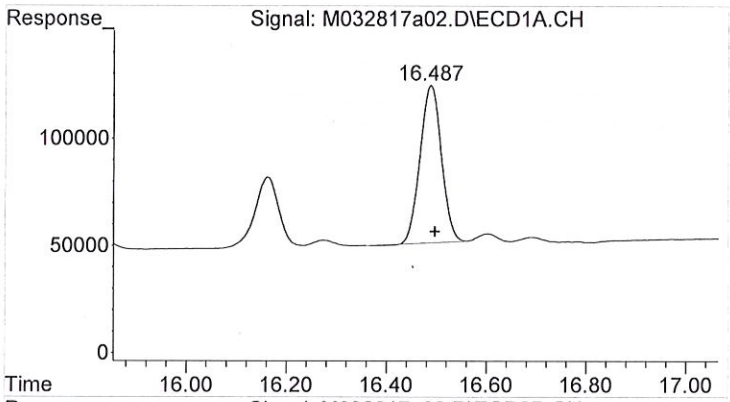

#10 1260-4

R.T.: 15.327 min
Delta R.T.: -0.008 min
Response: 108872
Conc: 111.48 pg/uL



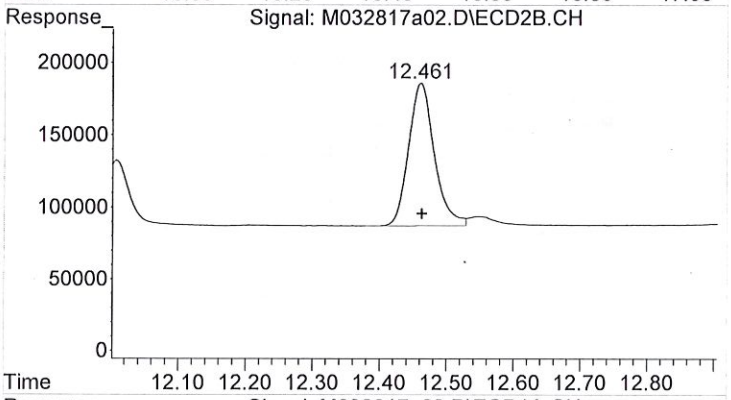

#10 1260-4

R.T.: 10.921 min
Delta R.T.: -0.001 min
Response: 397817
Conc: 120.53 pg/uL



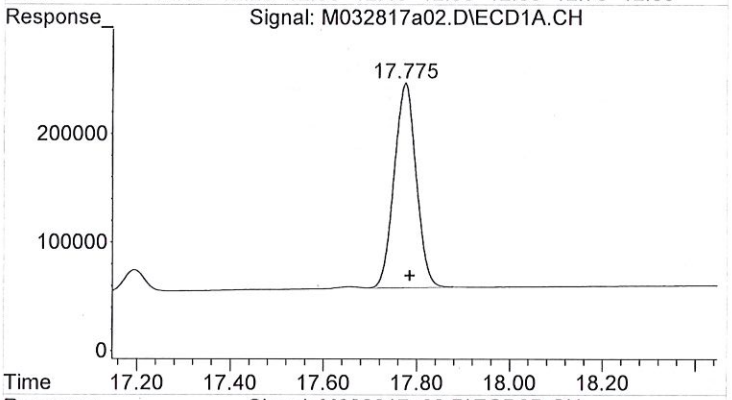

#11 1260-5

R.T.: 16.488 min
Delta R.T.: -0.009 min
Response: 73287
Conc: 117.89 pg/uL



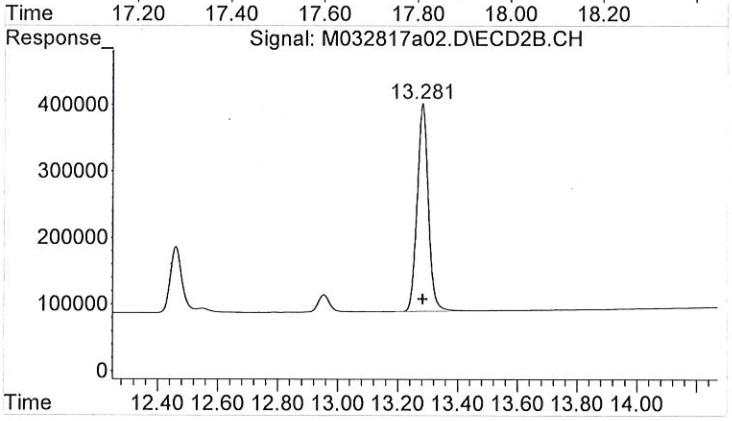

#11 1260-5

R.T.: 12.461 min
Delta R.T.: -0.002 min
Response: 98576
Conc: 120.73 pg/uL




#12 dcb

R.T.: 17.775 min
Delta R.T.: -0.010 min
Response: 188483
Conc: 11.71 pg/uL




#12 dcb

R.T.: 13.282 min
Delta R.T.: -0.002 min
Response: 312031
Conc: 12.89 pg/uL

# PCB CCV Report

Data File....: M032817a15.D
Dataname.....: 87PCB062716I
Analyzed.....: 03/28/2017 22:40

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

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

Datafile path....: J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\M032817a15.D
DP Method path...: J:\Organics\Minerva\Methods\M032117PCB1260.M

PCB 1016/1260 Cont Cal 100 pg/uL

| CAS # | Compound | RT | Exp RT | Area | Spike (expected) | Amount (pg) | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|
| Surrogate | | | | | Criteria range: <±20%D | | | |
| | tmx (1) | 6.98 | 6.99 | 258894 | 10 | 9.33 | -6.7 | |
| | dcb | 17.77 | 17.79 | 164850 | 10 | 10.1 | 0.8 | |
| | tmx (1) #2 | 4.80 | 4.80 | 447725 | 10 | 10.1 | 0.9 | |
| | dcb #2 | 13.28 | 13.28 | 249820 | 10 | 10.3 | 2.8 | |
| Target | | | | | Criteria range: <±20%D | | | |
| | 1016 -1 | 7.59 | 7.60 | 48601 | 100 | 92.3 | -7.7 | |
| | 1016-2 | 8.65 | 8.66 | 61967 | 100 | 98.5 | -1.5 | |
| | 1016-3 | 9.31 | 9.31 | 78448 | 100 | 100 | 0.096 | |
| | 1016-4 | 9.45 | 9.46 | 51750 | 100 | 101 | 0.71 | |
| | 1016-5 | 9.55 | 9.56 | 17696 | 100 | 92.9 | -7.1 | |
| | 1260-1 | 12.49 | 12.50 | 117067 | 100 | 96.6 | -3.4 | |
| | 1260-2 | 12.93 | 12.94 | 139893 | 100 | 99.6 | -0.36 | |
| | 1260-3 | 13.48 | 13.49 | 139048 | 100 | 98.1 | -1.9 | |
| | 1260-4 | 15.32 | 15.34 | 97867 | 100 | 99.1 | -0.88 | |
| | 1260-5 | 16.48 | 16.50 | 63058 | 100 | 99.9 | -0.12 | |
| | 1016 -1 #2 | 5.34 | 5.34 | 84037 | 100 | 99.5 | -0.49 | |
| | 1016-2 #2 | 5.81 | 5.81 | 138922 | 100 | 95.2 | -4.8 | |
| | 1016-3 #2 | 6.42 | 6.42 | 186554 | 100 | 95.2 | -4.8 | |
| | 1016-4 #2 | 6.60 | 6.60 | 111088 | 100 | 98.0 | -2.0 | |
| | 1016-5 #2 | 6.68 | 6.68 | 78228 | 100 | 96.1 | -3.9 | |
| | 1260-1 #2 | 8.94 | 8.94 | 185193 | 100 | 100 | 0.02 | |
| | 1260-2 #2 | 9.38 | 9.38 | 264313 | 100 | 101 | 1.4 | |
| | 1260-3 #2 | 9.82 | 9.82 | 200927 | 100 | 101 | 0.80 | |
| | 1260-4 #2 | 10.92 | 10.92 | 336303 | 100 | 102 | 2.2 | |
| | 1260-5 #2 | 12.46 | 12.46 | 82766 | 100 | 101 | 1.4 | |

| Average %Difference: | %Diff |
|---|---|
| 1016 Column 1 (n=5) | -3.1 |
| 1016 Column 2 (n=5) | -3.2 |
| 1260 Column 1 (n=5) | -1.3 |
| 1260 Column 2 (n=5) | 1.2 |

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 10:40 pm
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 08:37:07 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.981 | 4.799 | 258894 | 447725 | 9.327 | 10.086 |
| 12) S2 dcb | 17.771 | 13.282 | 164850 | 249820 | 10.082 | 10.276 |
| Target Compounds | | | | | | |
| 2) L1 1016 -1 | 7.591 | 5.343 | 48601 | 84037 | 92.297 | 99.510 |
| 3) L1 1016-2 | 8.654 | 5.806 | 61967 | 138922 | 98.457 | 95.179 |
| 4) L1 1016-3 | 9.307 | 6.420 | 78448 | 186554 | 100.096 | 95.211 |
| 5) L1 1016-4 | 9.451 | 6.595 | 51750 | 111088 | 100.713 | 98.025 |
| 6) L1 1016-5 | 9.552 | 6.679 | 17696 | 78228 | 92.886 | 96.105 |
| Sum 1016 -1 | | | 258462 | 598829 | 484.449 | 484.030 |
| Average 1016 -1 | | | | | 96.890 | 96.806 |
| 7) L2 1260-1 | 12.492 | 8.939 | 117067 | 185193 | 96.582 | 100.015 |
| 8) L2 1260-2 | 12.927 | 9.377 | 139893 | 264313 | 99.635 | 101.378 |
| 9) L2 1260-3 | 13.475 | 9.820 | 139048 | 200927 | 98.108 | 100.797 |
| 10) L2 1260-4 | 15.323 | 10.920 | 97867 | 336303 | 99.118 | 102.211 |
| 11) L2 1260-5 | 16.485 | 12.460 | 63058 | 82766 | 99.879 | 101.428 |
| Sum 1260-1 | | | 556933 | 1069502 | 493.322 | 505.830 |
| Average 1260-1 | | | | | 98.664 | 101.166 |

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

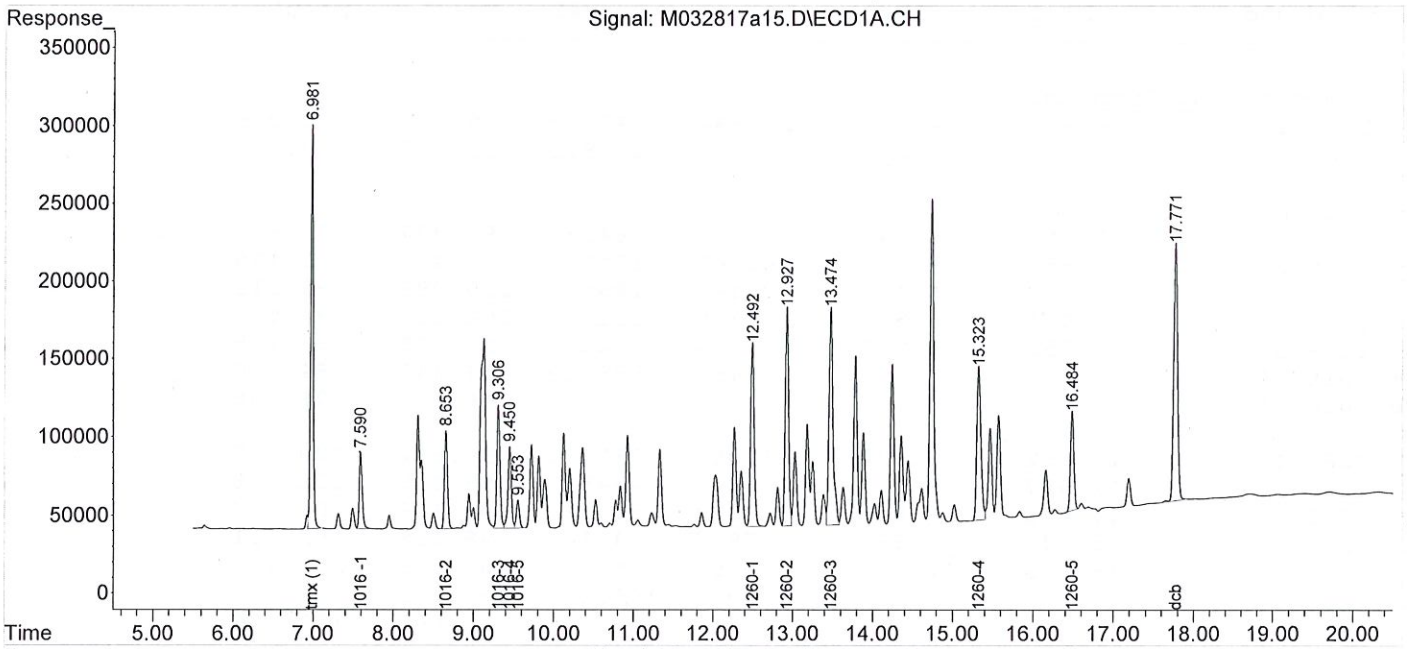
ww
3/31/17

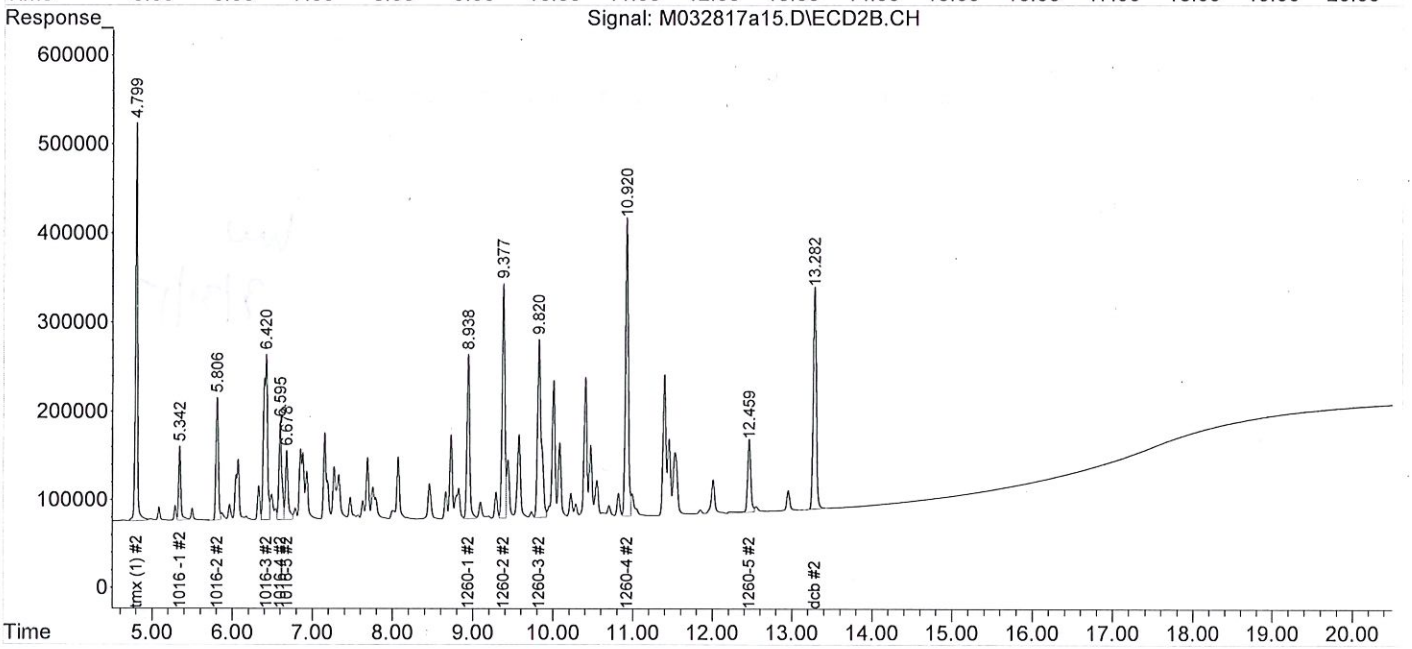
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 10:40 pm
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 08:37:07 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 22:40 pm
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

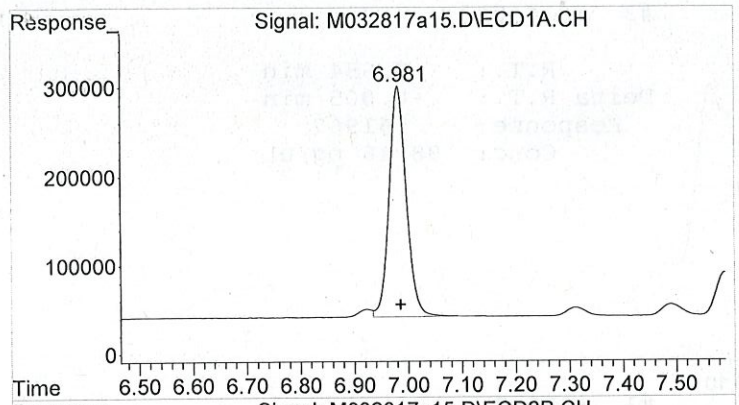
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 08:37:07 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.981 | 4.799 | 258894 | 447725 | 9.327 | 10.086 |
| 12) S2 dcb | 17.771 | 13.282 | 164850 | 249820 | 10.082 | 10.276 |
| Target Compounds | | | | | | |
| 2) L1 1016 -1 | 7.591 | 5.343 | 48601 | 84037 | 92.297 | 99.510 |
| 3) L1 1016-2 | 8.654 | 5.806 | 61967 | 138922 | 98.457 | 95.179 |
| 4) L1 1016-3 | 9.307 | 6.420 | 78448 | 186554 | 100.096 | 95.211 |
| 5) L1 1016-4 | 9.451 | 6.595 | 51750 | 111088 | 100.713 | 98.025 |
| 6) L1 1016-5 | 9.552 | 6.679 | 17696 | 78228 | 92.886 | 96.105 |
| Sum 1016 -1 | | | 258462 | 598829 | 484.449 | 484.030 |
| Average 1016 -1 | | | | | 96.890 | 96.806 |
| 7) L2 1260-1 | 12.492 | 8.939 | 117067 | 185193 | 96.582 | 100.015 |
| 8) L2 1260-2 | 12.927 | 9.377 | 139893 | 264313 | 99.635 | 101.378 |
| 9) L2 1260-3 | 13.475 | 9.820 | 139048 | 200927 | 98.108 | 100.797 |
| 10) L2 1260-4 | 15.323 | 10.920 | 97867 | 336303 | 99.118 | 102.211 |
| 11) L2 1260-5 | 16.485 | 12.460 | 63058 | 82766 | 99.879 | 101.428 |
| Sum 1260-1 | | | 556933 | 1069502 | 493.322 | 505.830 |
| Average 1260-1 | | | | | 98.664 | 101.166 |

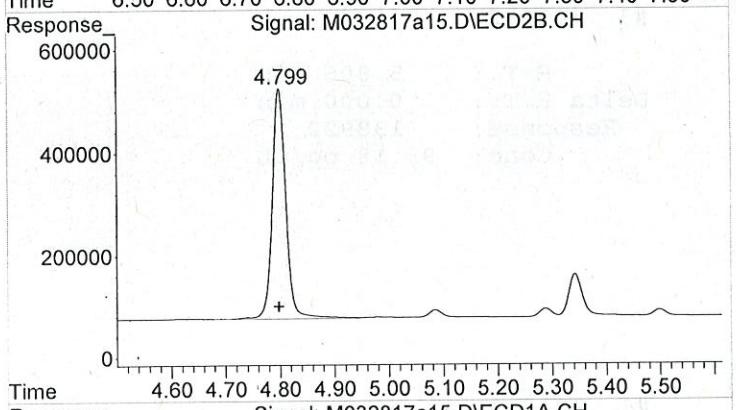
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

hw
3/30/17



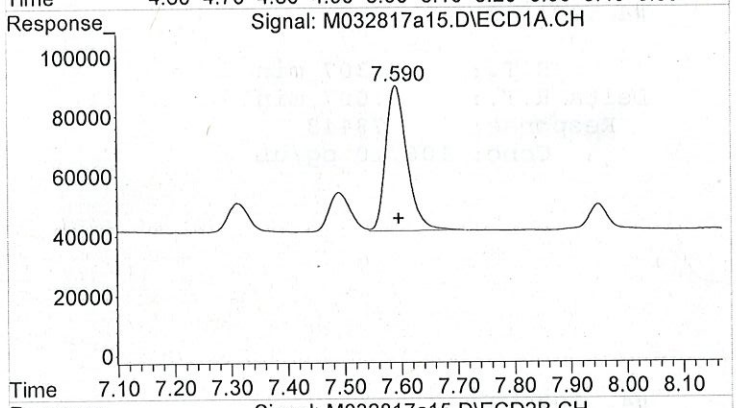

#1 tmx (1)

R.T.: 6.981 min
Delta R.T.: -0.005 min
Response: 258894
Conc: 9.33 pg/uL



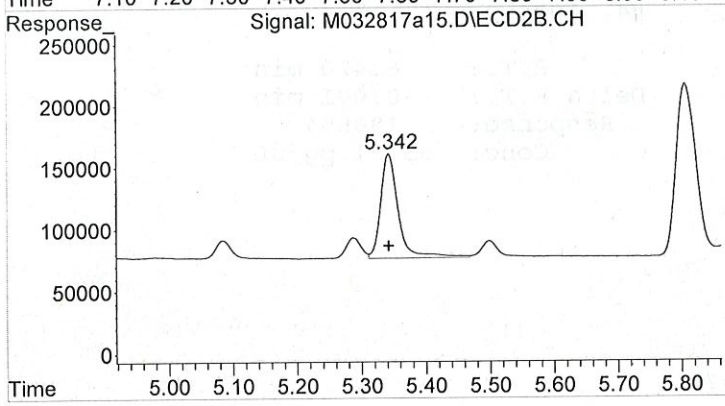

#1 tmx (1)

R.T.: 4.799 min
Delta R.T.: 0.000 min
Response: 447725
Conc: 10.09 pg/uL



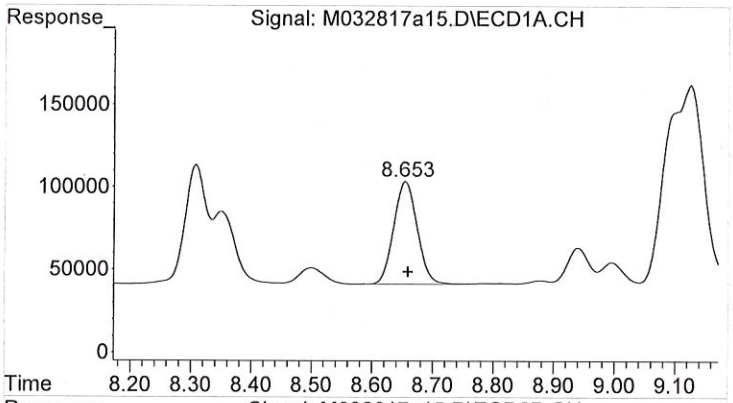

#2 1016 -1

R.T.: 7.591 min
Delta R.T.: -0.005 min
Response: 48601
Conc: 92.30 pg/uL



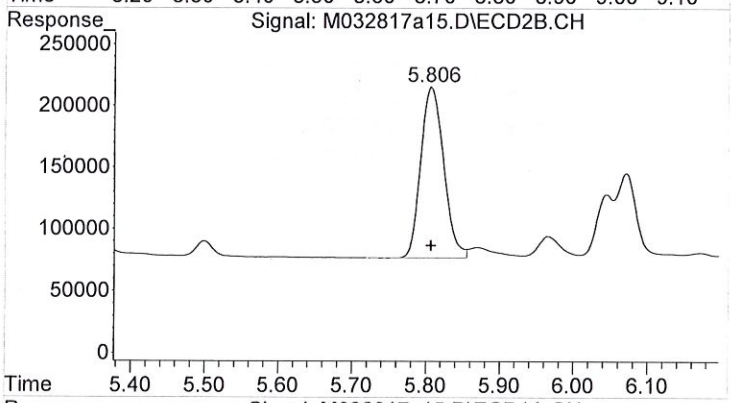

#2 1016 -1

R.T.: 5.343 min
Delta R.T.: 0.000 min
Response: 84037
Conc: 99.51 pg/uL



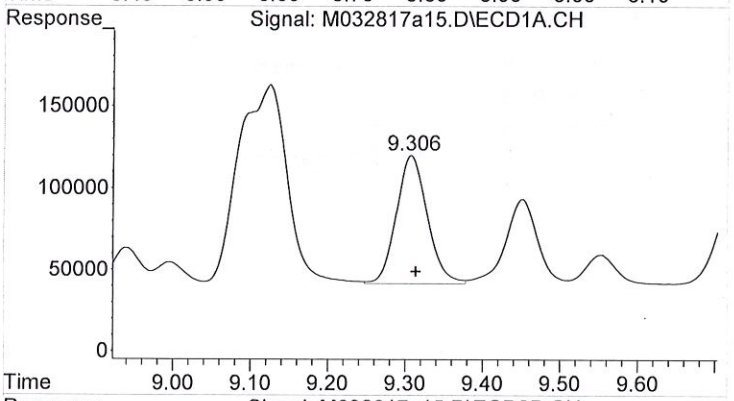

#3 1016-2

R.T.: 8.654 min
Delta R.T.: -0.005 min
Response: 61967
Conc: 98.46 pg/uL



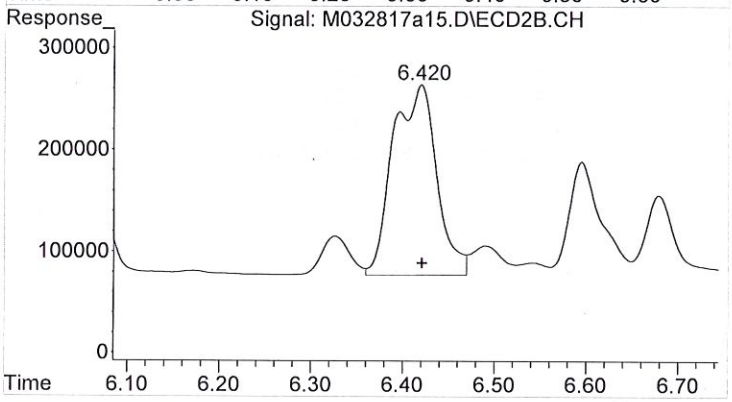

#3 1016-2

R.T.: 5.806 min
Delta R.T.: 0.000 min
Response: 138922
Conc: 95.18 pg/uL



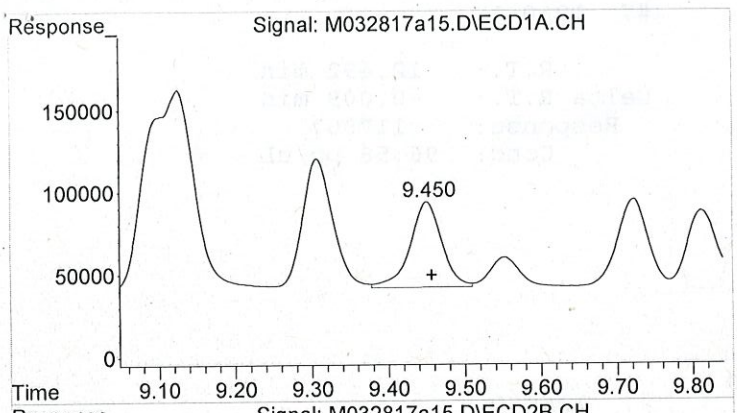

#4 1016-3

R.T.: 9.307 min
Delta R.T.: -0.007 min
Response: 78448
Conc: 100.10 pg/uL



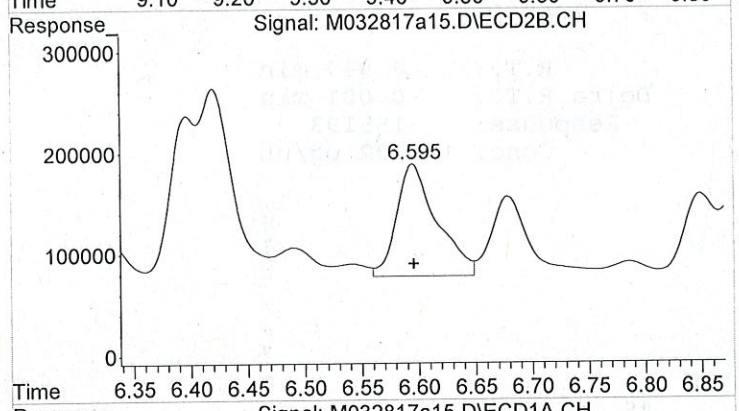

#4 1016-3

R.T.: 6.420 min
Delta R.T.: -0.001 min
Response: 186554
Conc: 95.21 pg/uL



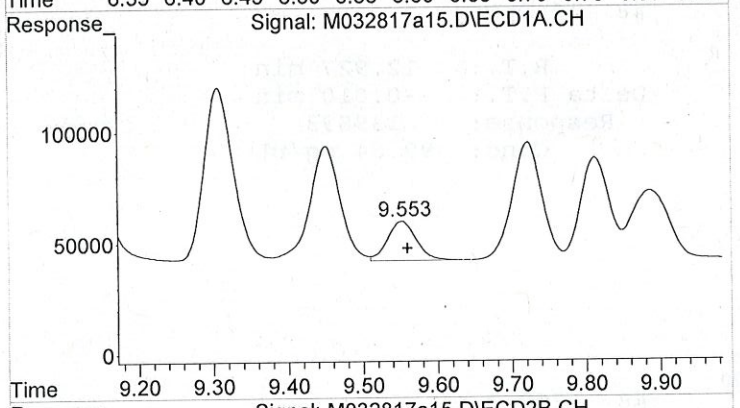

#5 1016-4

R.T.: 9.451 min
Delta R.T.: -0.006 min
Response: 51750
Conc: 100.71 pg/uL



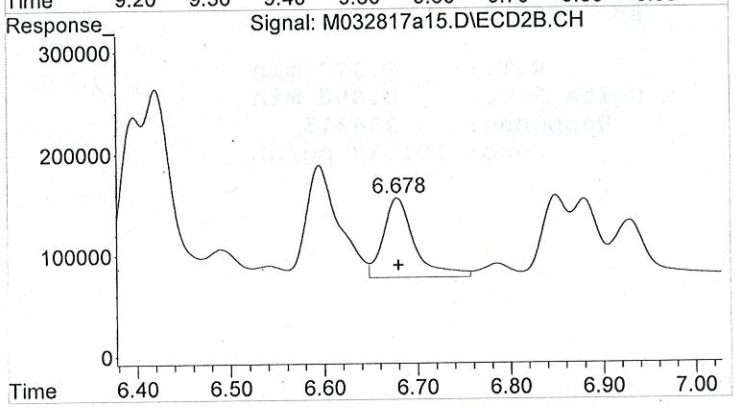

#5 1016-4

R.T.: 6.595 min
Delta R.T.: 0.000 min
Response: 111088
Conc: 98.03 pg/uL



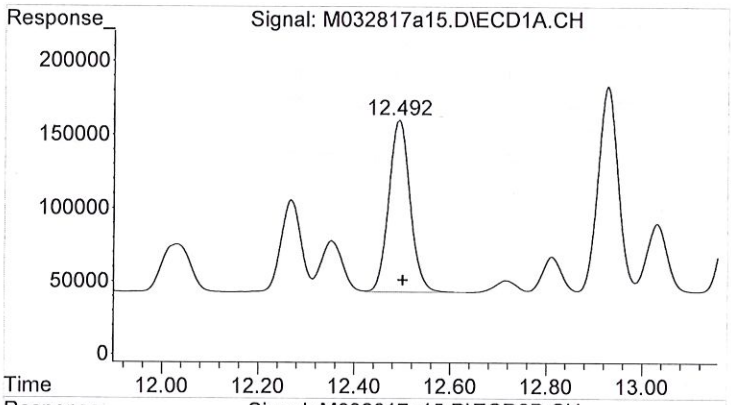

#6 1016-5

R.T.: 9.552 min
Delta R.T.: -0.008 min
Response: 17696
Conc: 92.89 pg/uL



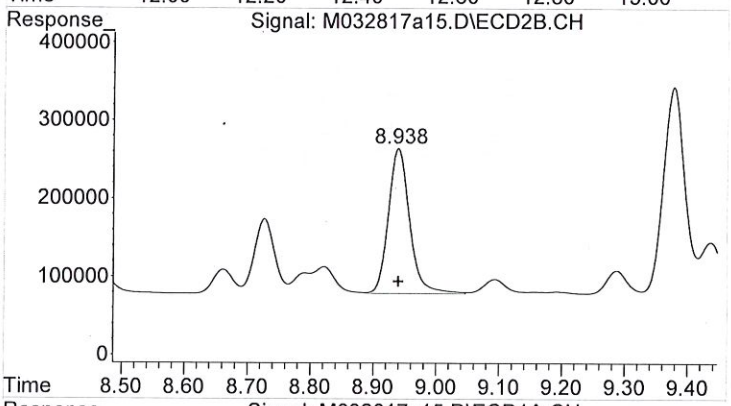

#6 1016-5

R.T.: 6.679 min
Delta R.T.: -0.001 min
Response: 78228
Conc: 96.11 pg/uL



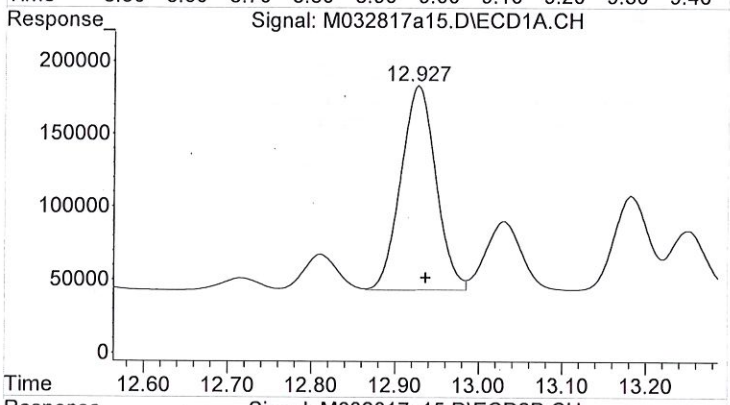

#7 1260-1

R.T.: 12.492 min
Delta R.T.: -0.009 min
Response: 117067
Conc: 96.58 pg/uL



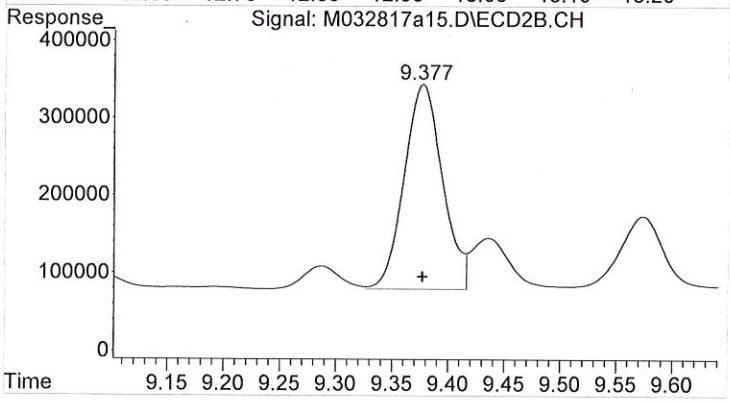

#7 1260-1

R.T.: 8.939 min
Delta R.T.: -0.001 min
Response: 185193
Conc: 100.02 pg/uL



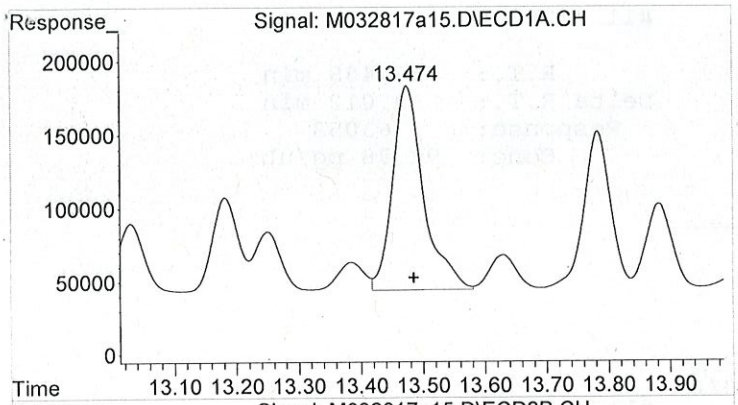

#8 1260-2

R.T.: 12.927 min
Delta R.T.: -0.010 min
Response: 139893
Conc: 99.64 pg/uL



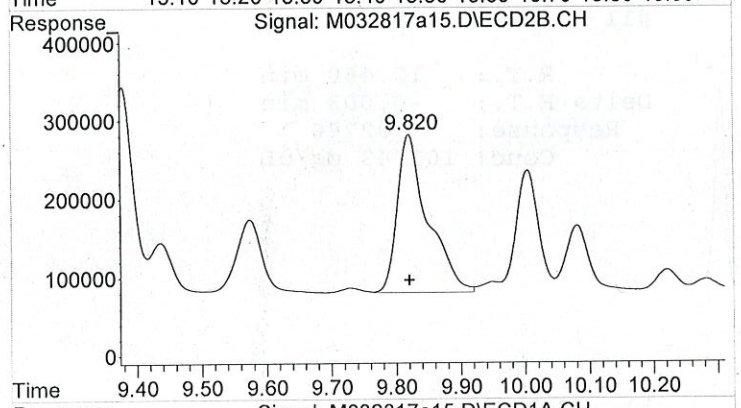

#8 1260-2

R.T.: 9.377 min
Delta R.T.: 0.000 min
Response: 264313
Conc: 101.38 pg/uL



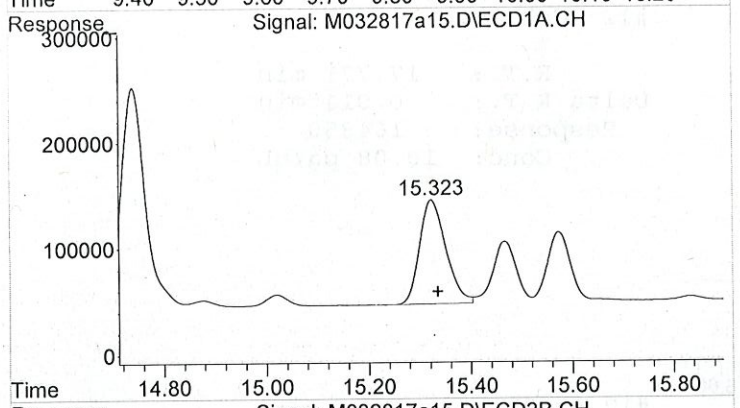

#9 1260-3

R.T.: 13.475 min
Delta R.T.: -0.011 min
Response: 139048
Conc: 98.11 pg/uL



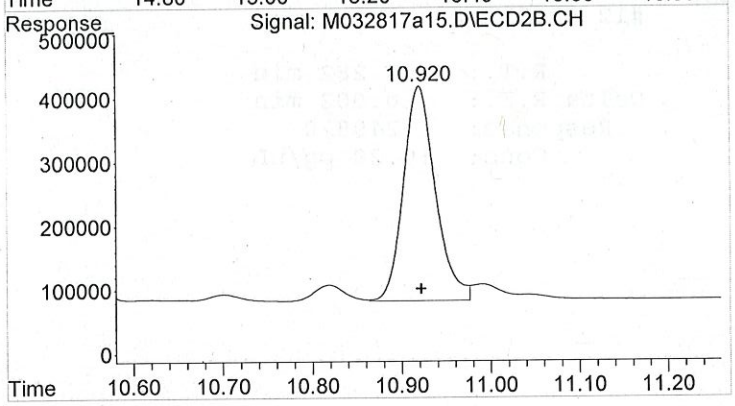

#9 1260-3

R.T.: 9.820 min
Delta R.T.: 0.000 min
Response: 200927
Conc: 100.80 pg/uL



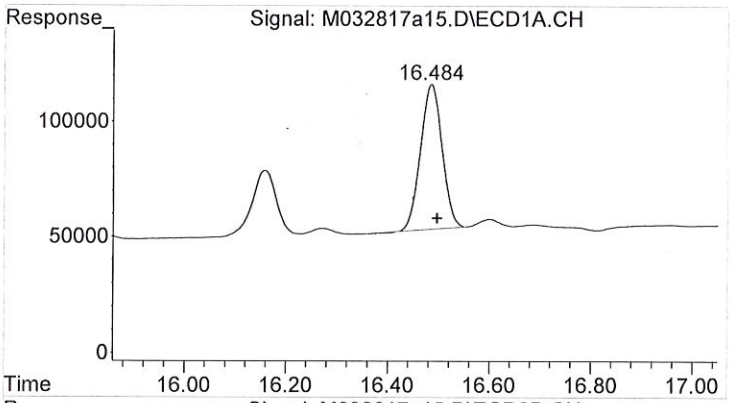

#10 1260-4

R.T.: 15.323 min
Delta R.T.: -0.012 min
Response: 97867
Conc: 99.12 pg/uL



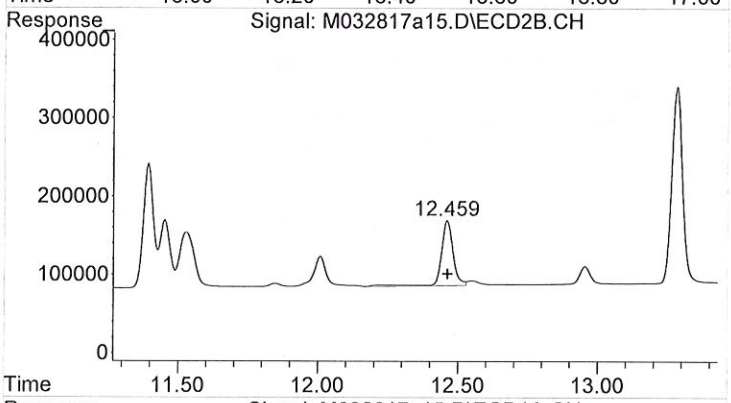

#10 1260-4

R.T.: 10.920 min
Delta R.T.: -0.002 min
Response: 336303
Conc: 102.21 pg/uL



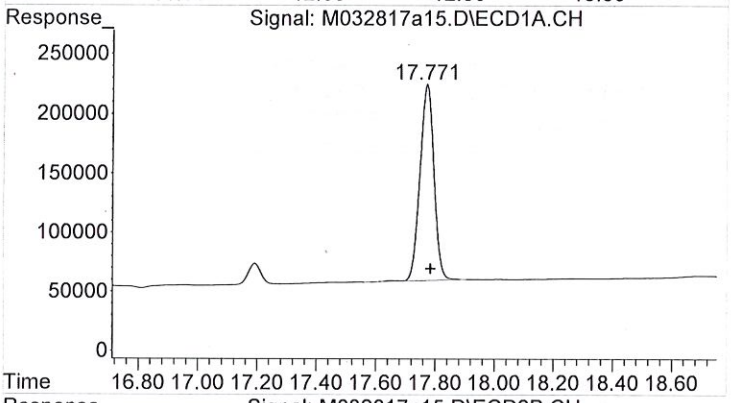

#11 1260-5

R.T.: 16.485 min
Delta R.T.: -0.012 min
Response: 63058
Conc: 99.88 pg/uL



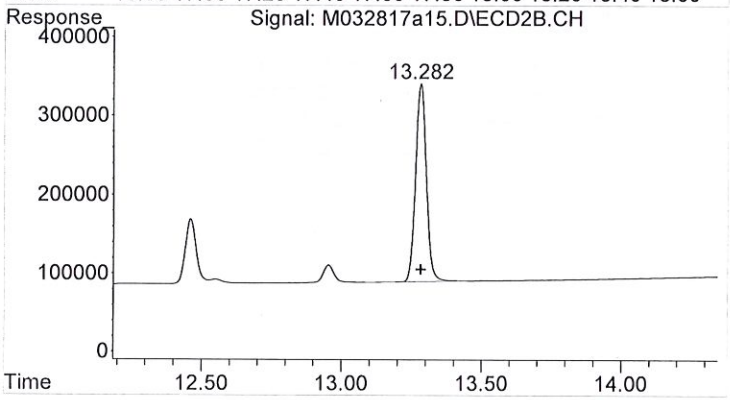

#11 1260-5

R.T.: 12.460 min
Delta R.T.: -0.003 min
Response: 82766
Conc: 101.43 pg/uL




#12 dcb

R.T.: 17.771 min
Delta R.T.: -0.014 min
Response: 164850
Conc: 10.08 pg/uL




#12 dcb

R.T.: 13.282 min
Delta R.T.: -0.002 min
Response: 249820
Conc: 10.28 pg/uL

# PCB CCV Report

Data File....: M033017a18.D
Dataname.....: 87PCB081916C
Analyzed.....: 03/30/2017 17:56

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

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

Datafile path....: J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1242dw\M033017a18.D
DP Method path...: J:\Organics\Minerva\Methods\M033017PCB1242.M

PCB 1242 Cont Cal 100 pg/uL

| CAS # | Compound | RT | Exp RT | Area | Spike (expected) | Amount (pg) | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|
| Surrogate | | | | | Criteria range: <±20%D | | | |
| Target | | | | | Criteria range: <±20%D | | | |
| | 1242 -1 | 8.31 | 8.31 | 57508 | 100 | 104 | 3.6 | |
| | 1242-2 | 8.65 | 8.66 | 48554 | 100 | 100 | 0.29 | |
| | 1242-3 | 9.12 | 9.13 | 101600 | 100 | 105 | 5.3 | |
| | 1242-4 | 9.30 | 9.32 | 62026 | 100 | 102 | 1.9 | |
| | 1242-5 | 9.45 | 9.46 | 40217 | 100 | 103 | 2.6 | |
| | 1242 -1 #2 | 5.34 | 5.35 | 67165 | 100 | 104 | 4.3 | |
| | 1242-2 #2 | 5.81 | 5.80 | 120954 | 100 | 109 | 9.5 | |
| | 1242-3 #2 | 6.07 | 6.08 | 57469 | 100 | 106 | 5.9 | |
| | 1242-4 #2 | 6.42 | 6.44 | 155659 | 100 | 104 | 4.0 | |
| | 1242-5 #2 | 6.59 | 6.59 | 89723 | 100 | 103 | 3.2 | |

| Average %Difference: | %Diff |
|---|---|
| 1242 Column 1 (n=5) | 2.8 |
| 1242 Column 2 (n=5) | 5.4 |

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1242dw\
Data File : M033017a18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 17:56 pm
Operator : DWOOD
Sample : 87PCB081916C
Misc : PCB 1242 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 16 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 31 07:55:55 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1242 -1 | 8.305 | 5.342 | 57508 | 67165 | 103.579 | 104.256 |
| 2) L1 1242-2 | 8.651 | 5.806 | 48554 | 120954 | 100.285 | 109.478 |
| 3) L1 1242-3 | 9.121 | 6.069 | 101600 | 57469 | 105.349 | 105.868 |
| 4) L1 1242-4 | 9.304 | 6.418 | 62026 | 155659 | 101.912 | 104.001 |
| 5) L1 1242-5 | 9.447 | 6.595 | 40217 | 89723 | 102.634 | 103.238 |
| Sum 1242 -1 | | | 309905 | 490969 | 513.759 | 526.840 |
| Average 1242 -1 | | | | | 102.752 | 105.368 |

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

ww
3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1242dw\
Data File : M033017a18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 17:56 pm
Operator : DWOOD
Sample : 87PCB081916C
Misc : PCB 1242 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 16 (Sig #2) Sample Multiplier: 1

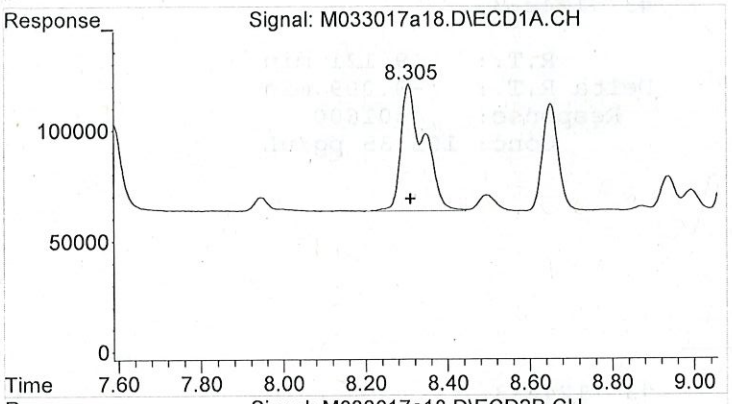
Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 31 07:55:55 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1242 -1 | 8.305 | 5.342 | 57508 | 67165 | 103.579 | 104.256 |
| 2) L1 1242-2 | 8.651 | 5.806 | 48554 | 120954 | 100.285 | 109.478 |
| 3) L1 1242-3 | 9.121 | 6.069 | 101600 | 57469 | 105.349 | 105.868 |
| 4) L1 1242-4 | 9.304 | 6.418 | 62026 | 155659 | 101.912 | 104.001 |
| 5) L1 1242-5 | 9.447 | 6.595 | 40217 | 89723 | 102.634 | 103.238 |
| Sum 1242 -1 | | | 309905 | 490969 | 513.759 | 526.840 |
| Average 1242 -1 | | | | | 102.752 | 105.368 |

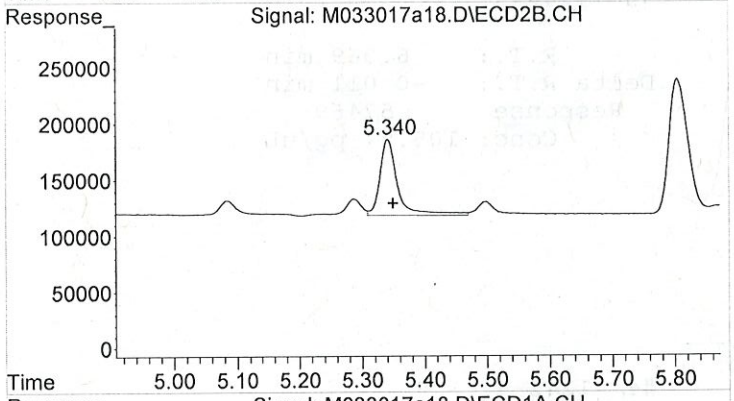
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

hw
3/31/17



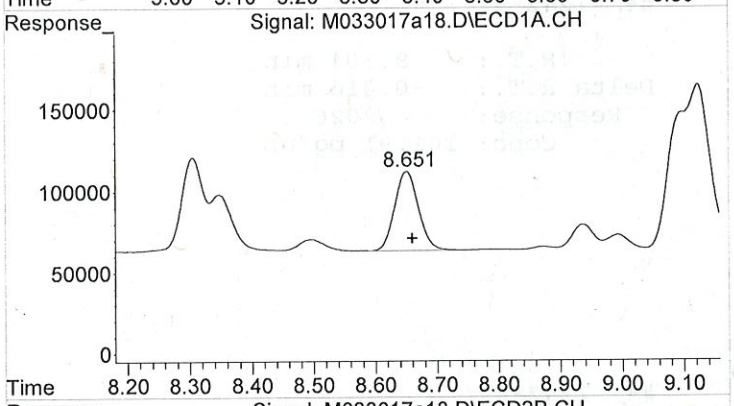

#1 1242 -1

R.T.: 8.305 min
Delta R.T.: -0.005 min
Response: 57508
Conc: 103.58 pg/uL



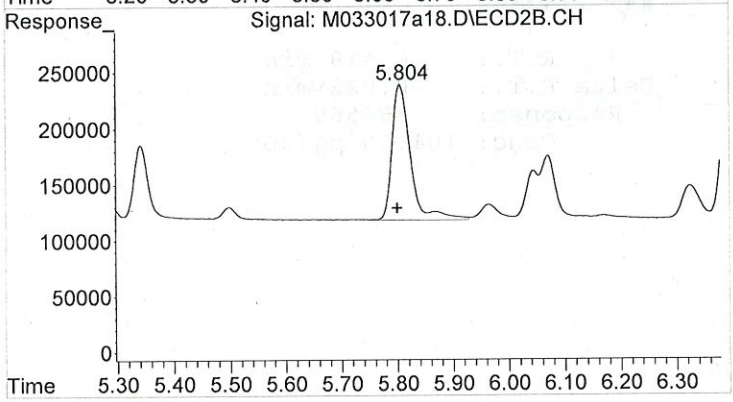

#1 1242 -1

R.T.: 5.342 min
Delta R.T.: -0.008 min
Response: 67165
Conc: 104.26 pg/uL



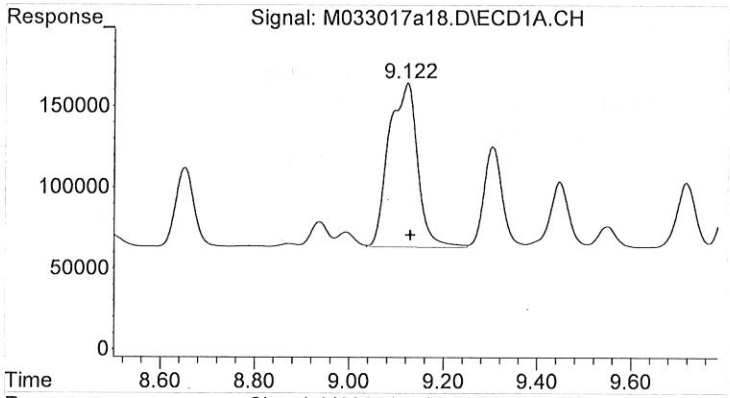

#2 1242-2

R.T.: 8.651 min
Delta R.T.: -0.009 min
Response: 48554
Conc: 100.29 pg/uL



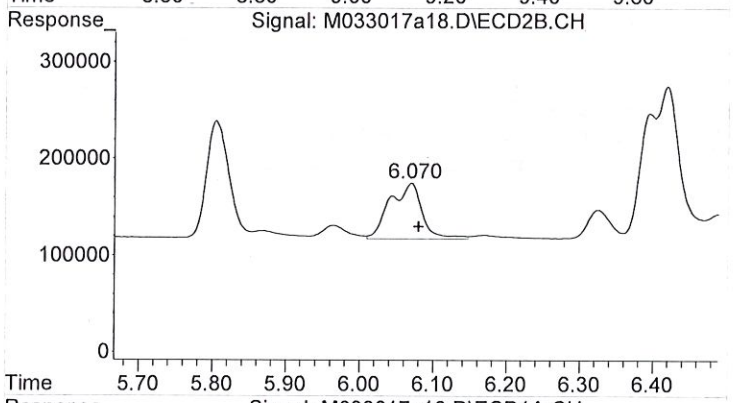

#2 1242-2

R.T.: 5.806 min
Delta R.T.: 0.006 min
Response: 120954
Conc: 109.48 pg/uL



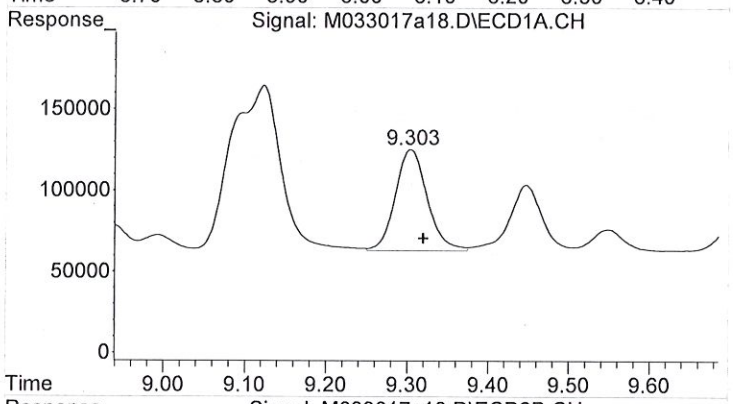

#3 1242-3

R.T.: 9.121 min
Delta R.T.: -0.009 min
Response: 101600
Conc: 105.35 pg/uL



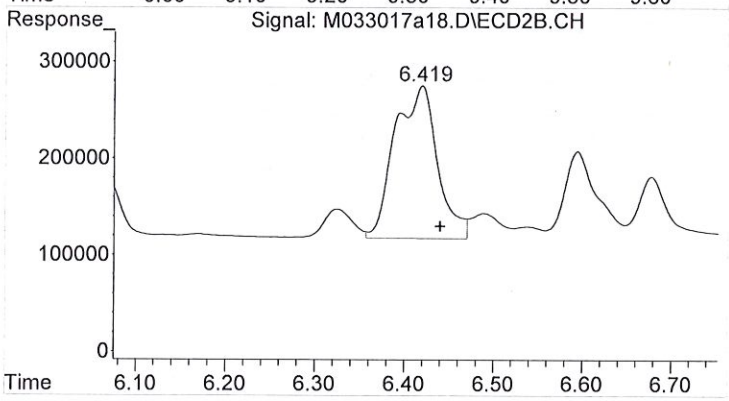

#3 1242-3

R.T.: 6.069 min
Delta R.T.: -0.011 min
Response: 57469
Conc: 105.87 pg/uL



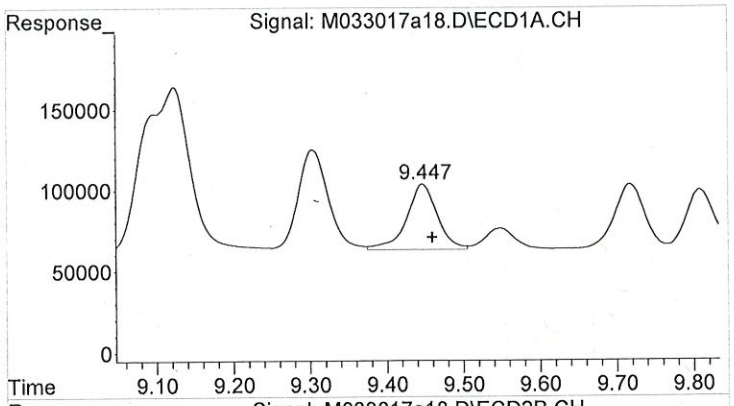

#4 1242-4

R.T.: 9.304 min
Delta R.T.: -0.016 min
Response: 62026
Conc: 101.91 pg/uL



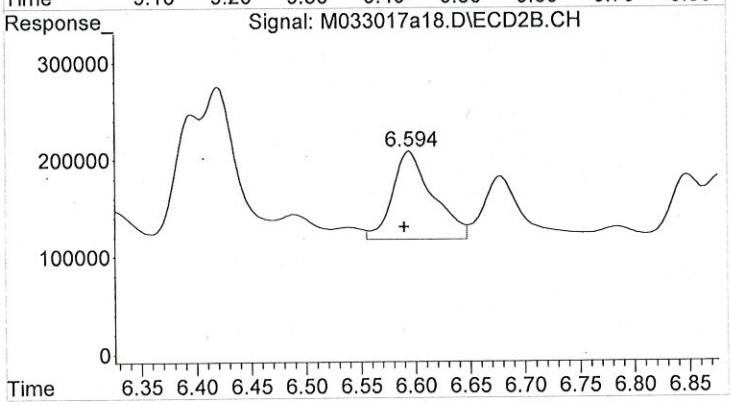

#4 1242-4

R.T.: 6.418 min
Delta R.T.: -0.022 min
Response: 155659
Conc: 104.00 pg/uL




#5 1242-5

R.T.: 9.447 min
Delta R.T.: -0.013 min
Response: 40217
Conc: 102.63 pg/uL




#5 1242-5

R.T.: 6.595 min
Delta R.T.: 0.005 min
Response: 89723
Conc: 103.24 pg/uL

# PCB CCV Report

Data File....: M033017a24.D
Dataname.....: 87PCB081916C
Analyzed.....: 03/30/2017 20:24

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

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

Datafile path....: J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1242dw\M033017a24.D
DP Method path...: J:\Organics\Minerva\Methods\M033017PCB1242.M

PCB 1242 Cont Cal 100 pg/uL

| CAS # | Compound | RT | Exp RT | Area | Spike (expected) | Amount (pg) | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|
| Surrogate | | | | | Criteria range: <±20%D | | | |
| Target | | | | | Criteria range: <±20%D | | | |
| | 1242 -1 | 8.30 | 8.31 | 58762 | 100 | 106 | 6.1 | |
| | 1242-2 | 8.65 | 8.66 | 50075 | 100 | 104 | 3.7 | |
| | 1242-3 | 9.12 | 9.13 | 98980 | 100 | 102 | 2.5 | |
| | 1242-4 | 9.30 | 9.32 | 61859 | 100 | 102 | 1.6 | |
| | 1242-5 | 9.45 | 9.46 | 40108 | 100 | 102 | 2.3 | |
| | 1242 -1 #2 | 5.34 | 5.35 | 65482 | 100 | 102 | 1.5 | |
| | 1242-2 #2 | 5.80 | 5.80 | 117698 | 100 | 106 | 6.4 | |
| | 1242-3 #2 | 6.07 | 6.08 | 56095 | 100 | 103 | 3.2 | |
| | 1242-4 #2 | 6.42 | 6.44 | 147082 | 100 | 98.3 | -1.7 | |
| | 1242-5 #2 | 6.59 | 6.59 | 87451 | 100 | 101 | 0.62 | |

| Average %Difference: | %Diff |
|---|---|
| 1242 Column 1 (n=5) | 3.2 |
| 1242 Column 2 (n=5) | 2.0 |

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1242dw\
Data File : M033017a24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 20:24 pm
Operator : DWOOD
Sample : 87PCB081916C
Misc : PCB 1242 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 16 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 31 07:56:37 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1242 -1 | 8.304 | 5.342 | 58762 | 65482 | 106.068 | 101.532 |
| 2) L1 1242-2 | 8.651 | 5.805 | 50075 | 117698 | 103.722 | 106.387 |
| 3) L1 1242-3 | 9.121 | 6.069 | 98980 | 56095 | 102.462 | 103.230 |
| 4) L1 1242-4 | 9.305 | 6.417 | 61859 | 147082 | 101.615 | 98.302 |
| 5) L1 1242-5 | 9.447 | 6.595 | 40108 | 87451 | 102.338 | 100.620 |
| Sum 1242 -1 | | | 309785 | 473808 | 516.205 | 510.072 |
| Average 1242 -1 | | | | | 103.241 | 102.014 |

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

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3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1242dw\
Data File : M033017a24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 20:24 pm
Operator : DWOOD
Sample : 87PCB081916C
Misc : PCB 1242 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 16 (Sig #2) Sample Multiplier: 1

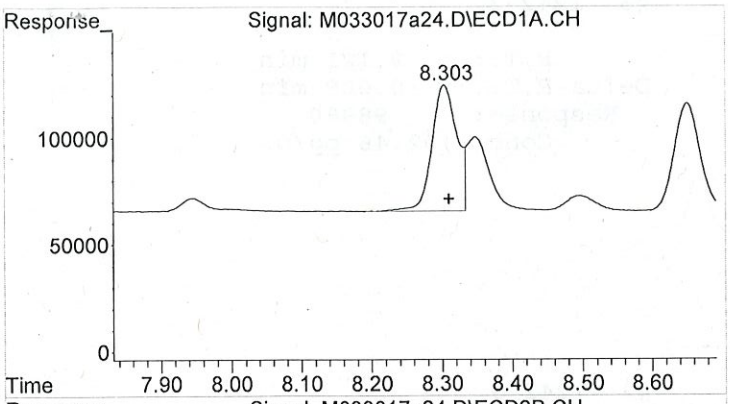
Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 31 07:56:37 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1242 -1 | 8.304 | 5.342 | 58762 | 65482 | 106.068 | 101.532 |
| 2) L1 1242-2 | 8.651 | 5.805 | 50075 | 117698 | 103.722 | 106.387 |
| 3) L1 1242-3 | 9.121 | 6.069 | 98980 | 56095 | 102.462 | 103.230 |
| 4) L1 1242-4 | 9.305 | 6.417 | 61859 | 147082 | 101.615 | 98.302 |
| 5) L1 1242-5 | 9.447 | 6.595 | 40108 | 87451 | 102.338 | 100.620 |
| Sum 1242 -1 | | | 309785 | 473808 | 516.205 | 510.072 |
| Average 1242 -1 | | | | | 103.241 | 102.014 |

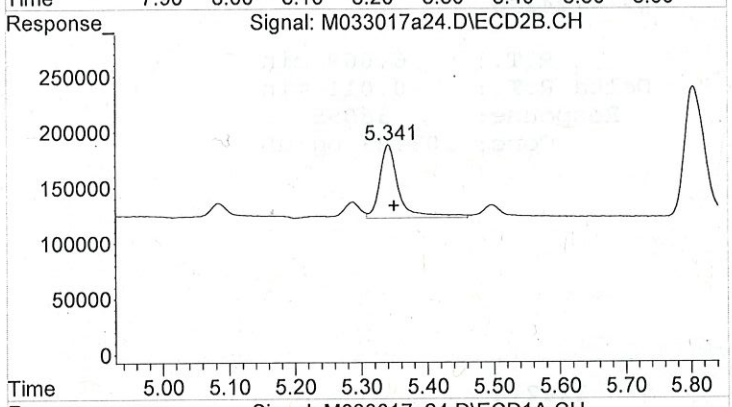
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ww
3/31/17



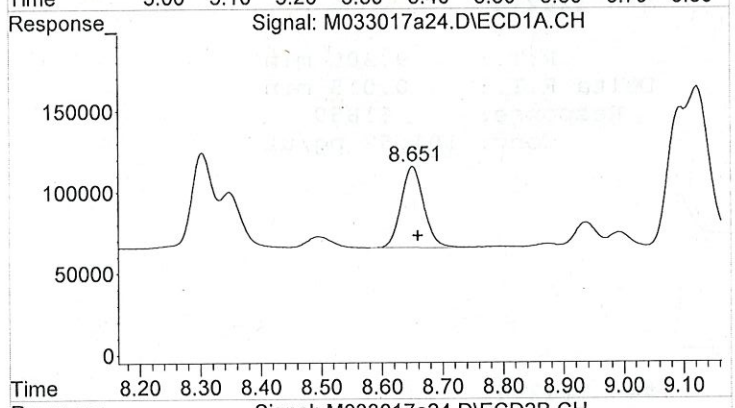

#1 1242 -1

R.T.: 8.304 min
Delta R.T.: -0.006 min
Response: 58762
Conc: 106.07 pg/uL



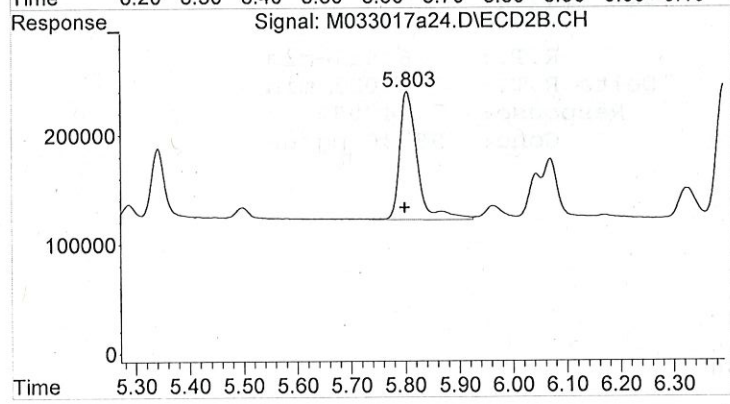

#1 1242 -1

R.T.: 5.342 min
Delta R.T.: -0.008 min
Response: 65482
Conc: 101.53 pg/uL



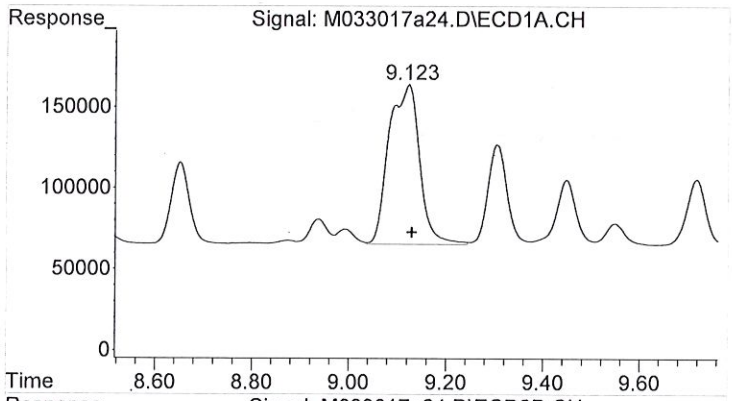

#2 1242-2

R.T.: 8.651 min
Delta R.T.: -0.009 min
Response: 50075
Conc: 103.72 pg/uL



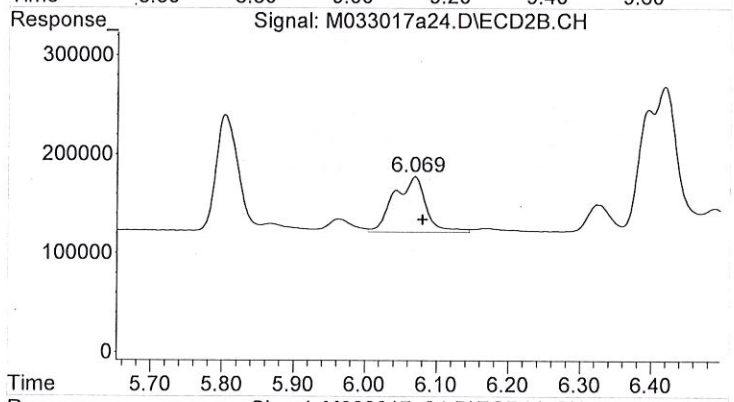

#2 1242-2

R.T.: 5.805 min
Delta R.T.: 0.005 min
Response: 117698
Conc: 106.39 pg/uL



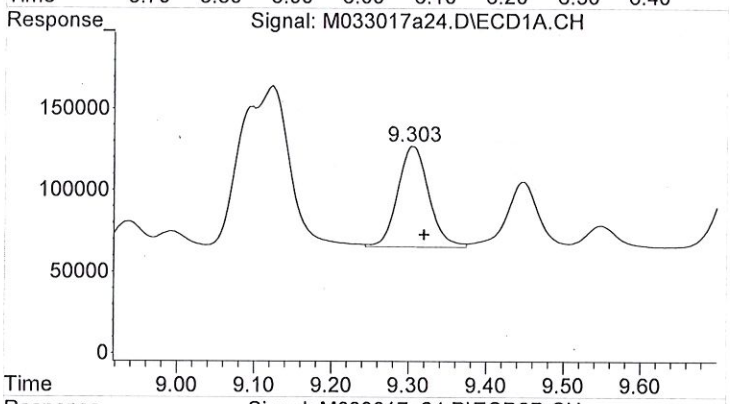

#3 1242-3

R.T.: 9.121 min
Delta R.T.: -0.009 min
Response: 98980
Conc: 102.46 pg/uL



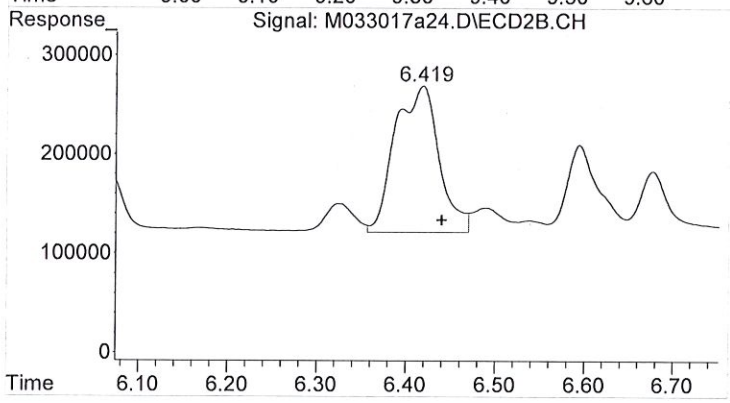

#3 1242-3

R.T.: 6.069 min
Delta R.T.: -0.011 min
Response: 56095
Conc: 103.23 pg/uL



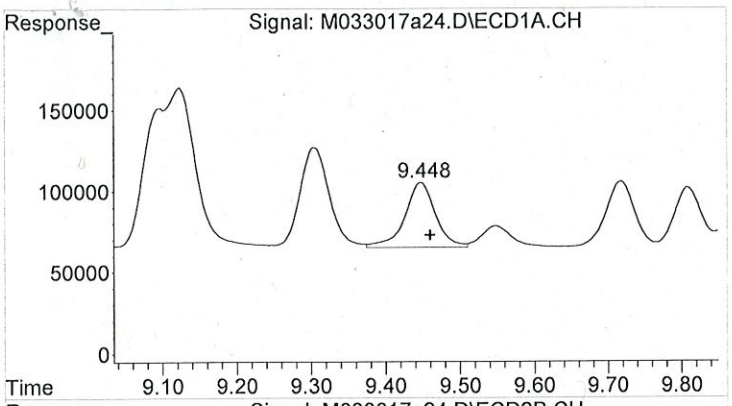

#4 1242-4

R.T.: 9.305 min
Delta R.T.: -0.015 min
Response: 61859
Conc: 101.62 pg/uL



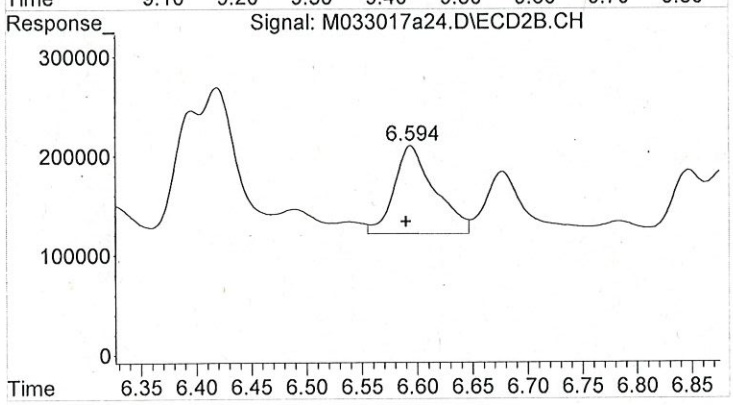

#4 1242-4

R.T.: 6.417 min
Delta R.T.: -0.023 min
Response: 147082
Conc: 98.30 pg/uL




#5 1242-5

R.T.: 9.447 min
Delta R.T.: -0.013 min
Response: 40108
Conc: 102.34 pg/uL




#5 1242-5

R.T.: 6.595 min
Delta R.T.: 0.005 min
Response: 87451
Conc: 100.62 pg/uL

# PCB CCV Report

Data File....: M033017a19.D
Dataname.....: 87PCB083016C
Analyzed.....: 03/30/2017 18:21

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

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

Datafile path....: J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dw\M033017a19.D
DP Method path...: J:\Organics\Minerva\Methods\M033017PCB1254.M

PCB 1254 Cont Cal 100 pg/uL

| CAS # | Compound | RT | Exp RT | Area | Spike (expected) | Amount (pg) | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|
| Surrogate | | | | | Criteria range: <±20%D | | | |
| Target | | | | | Criteria range: <±20%D | | | |
| | 1254 -1 | 11.33 | 11.34 | 121478 | 100 | 106 | 6.1 | |
| | 1254-2 | 11.75 | 11.77 | 38462 | 100 | 109 | 8.6 | |
| | 1254-3 | 11.85 | 11.86 | 77953 | 100 | 107 | 6.7 | |
| | 1254-4 | 11.94 | 11.96 | 25048 | 100 | 104 | 4.2 | |
| | 1254-5 | 12.04 | 12.06 | 138038 | 100 | 105 | 5.3 | |
| | 1254 -1 #2 | 7.69 | 7.69 | 140712 | 100 | 109 | 8.5 | |
| | 1254-2 #2 | 8.06 | 8.07 | 179488 | 100 | 110 | 9.8 | |
| | 1254-3 #2 | 8.47 | 8.48 | 126860 | 100 | 110 | 9.8 | |
| | 1254-4 #2 | 8.66 | 8.66 | 225710 | 100 | 110 | 9.7 | |
| | 1254-5 #2 | 8.94 | 8.94 | 85436 | 100 | 112 | 12 | |

| Average %Difference: | %Diff |
|---|---|
| 1254 Column 1 (n=5) | 6.2 |
| 1254 Column 2 (n=5) | 9.9 |

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dw\
Data File : M033017a19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 18:21 pm
Operator : DWOOD
Sample : 87PCB083016C
Misc : PCB 1254 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 17 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:57:28 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1254 -1 | 11.328 | 7.685 | 121478 | 140712 | 106.072 | 108.511 |
| 2) L1 1254-2 | 11.754 | 8.065 | 38462 | 179488 | 108.602 | 109.768 |
| 3) L1 1254-3 | 11.849 | 8.472 | 77953 | 126860 | 106.748 | 109.796 |
| 4) L1 1254-4 | 11.941 | 8.656 | 25048 | 225710 | 104.164 | 109.734 |
| 5) L1 1254-5 | 12.039 | 8.935 | 138038 | 85436 | 105.334 | 111.621 |
| Sum 1254 -1 | | | 400979 | 758205 | 530.921 | 549.430 |
| Average 1254 -1 | | | | | 106.184 | 109.886 |

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

hw
3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dw\
Data File : M033017a19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 18:21 pm
Operator : DWOOD
Sample : 87PCB083016C
Misc : PCB 1254 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 17 (Sig #2) Sample Multiplier: 1

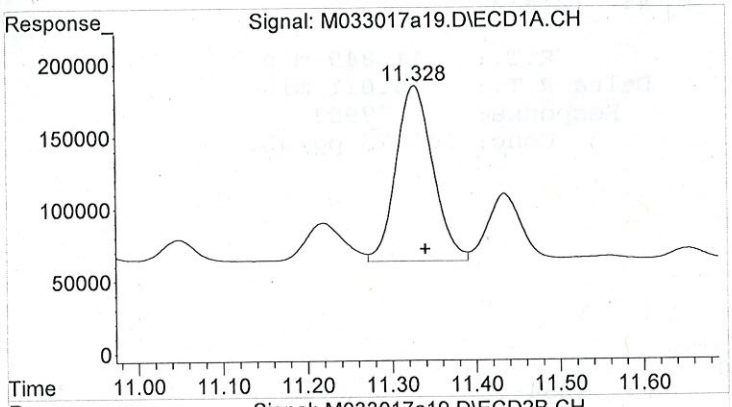
Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:57:28 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1254 -1 | 11.328 | 7.685 | 121478 | 140712 | 106.072 | 108.511 |
| 2) L1 1254-2 | 11.754 | 8.065 | 38462 | 179488 | 108.602 | 109.768 |
| 3) L1 1254-3 | 11.849 | 8.472 | 77953 | 126860 | 106.748 | 109.796 |
| 4) L1 1254-4 | 11.941 | 8.656 | 25048 | 225710 | 104.164 | 109.734 |
| 5) L1 1254-5 | 12.039 | 8.935 | 138038 | 85436 | 105.334 | 111.621 |
| Sum 1254 -1 | | | 400979 | 758205 | 530.921 | 549.430 |
| Average 1254 -1 | | | | | 106.184 | 109.886 |

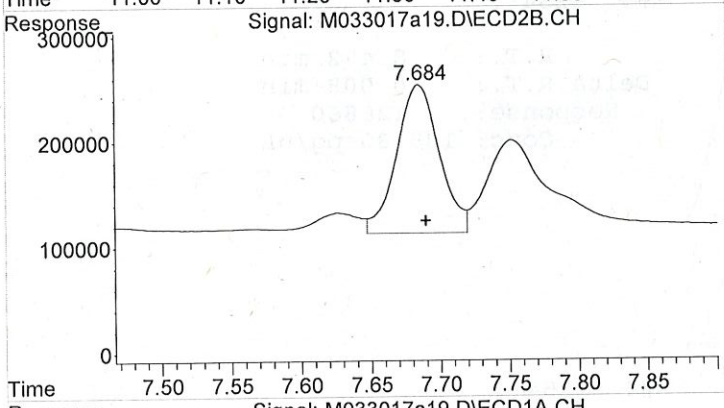
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

mw
3/31/17



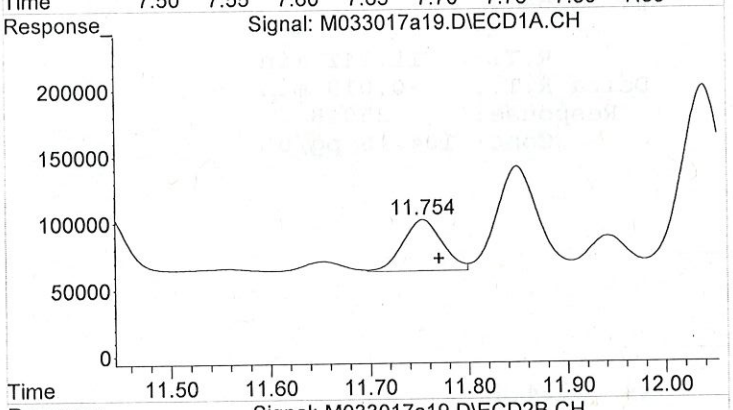

#1 1254 -1

R.T.: 11.328 min
Delta R.T.: -0.012 min
Response: 121478
Conc: 106.07 pg/uL



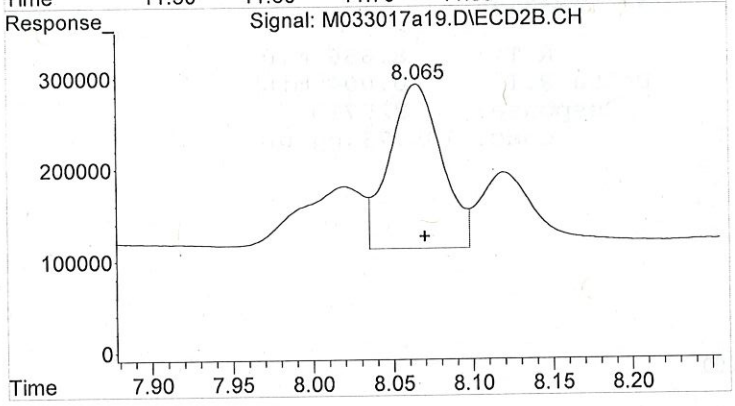

#1 1254 -1

R.T.: 7.685 min
Delta R.T.: -0.005 min
Response: 140712
Conc: 108.51 pg/uL



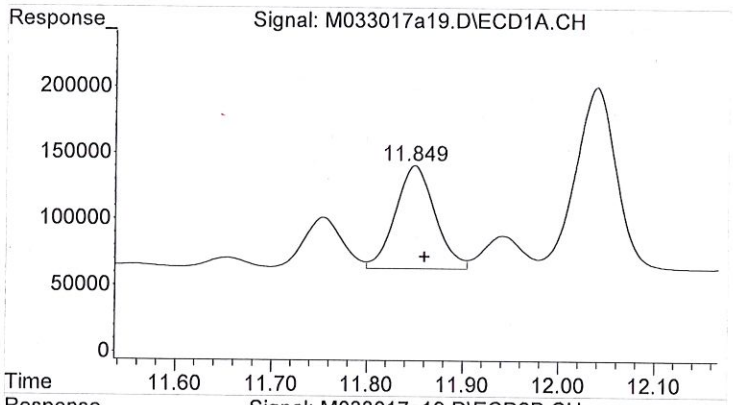

#2 1254-2

R.T.: 11.754 min
Delta R.T.: -0.016 min
Response: 38462
Conc: 108.60 pg/uL



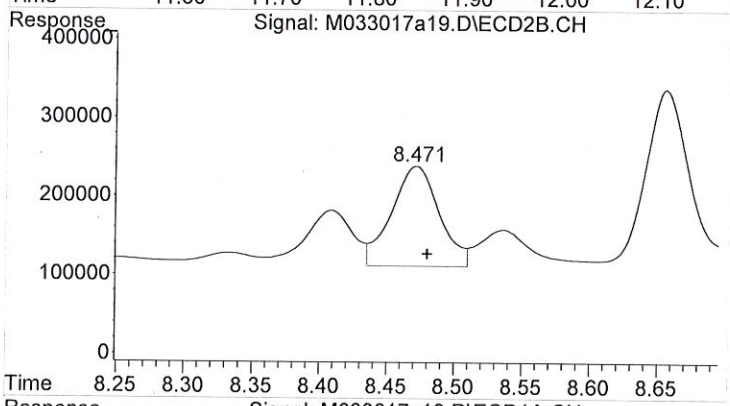

#2 1254-2

R.T.: 8.065 min
Delta R.T.: -0.005 min
Response: 179488
Conc: 109.77 pg/uL



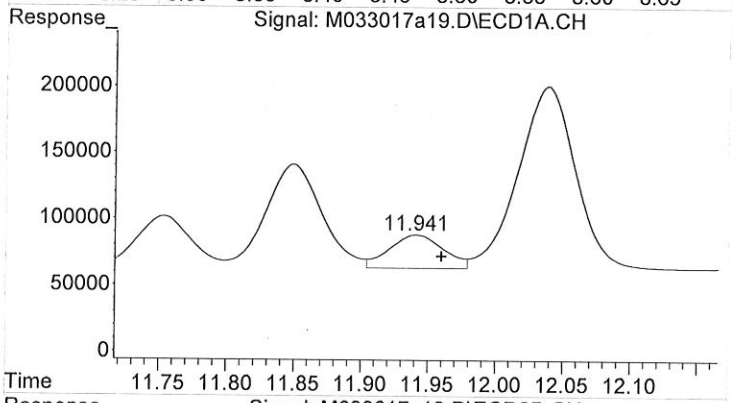

#3 1254-3

R.T.: 11.849 min
Delta R.T.: -0.011 min
Response: 77953
Conc: 106.75 pg/uL



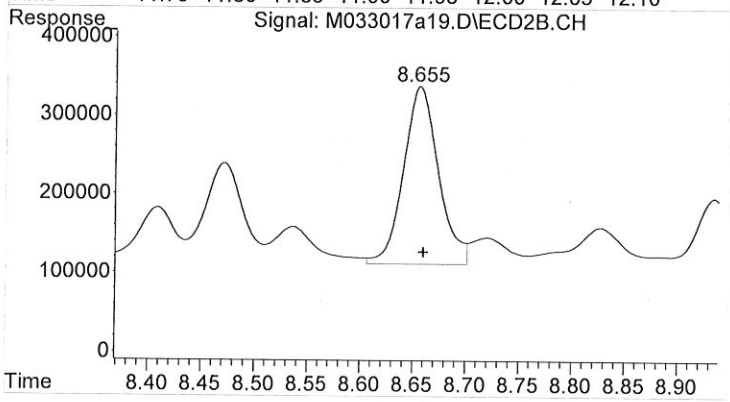

#3 1254-3

R.T.: 8.472 min
Delta R.T.: -0.008 min
Response: 126860
Conc: 109.80 pg/uL



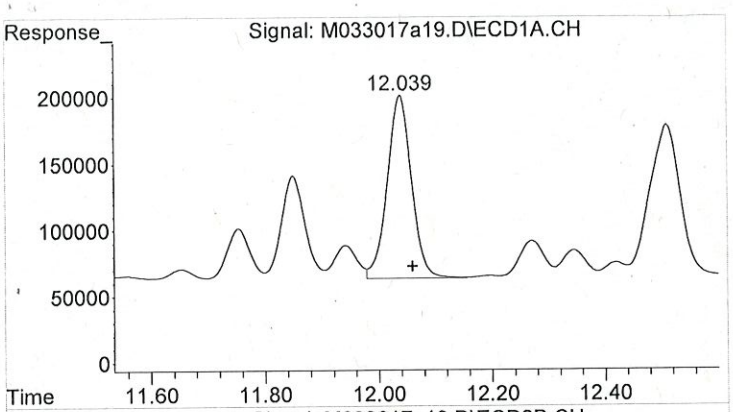

#4 1254-4

R.T.: 11.941 min
Delta R.T.: -0.019 min
Response: 25048
Conc: 104.16 pg/uL



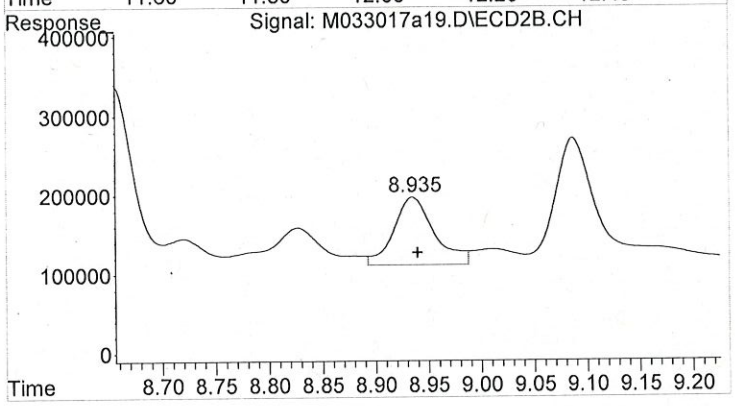

#4 1254-4

R.T.: 8.656 min
Delta R.T.: -0.004 min
Response: 225710
Conc: 109.73 pg/uL




#5 1254-5

R.T.: 12.039 min
Delta R.T.: -0.021 min
Response: 138038
Conc: 105.33 pg/uL




#5 1254-5

R.T.: 8.935 min
Delta R.T.: -0.005 min
Response: 85436
Conc: 111.62 pg/uL

# PCB CCV Report

Data File....: M033017a25.D
Dataname.....: 87PCB083016C
Analyzed.....: 03/30/2017 20:49

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

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

Datafile path....: J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dw\M033017a25.D
DP Method path...: J:\Organics\Minerva\Methods\M033017PCB1254.M

PCB 1254 Cont Cal 100 pg/uL

| CAS # | Compound | RT | Exp RT | Area | Spike (expected) | Amount (pg) | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|
| Surrogate | | | | | Criteria range: <±20%D | | | |
| Target | | | | | Criteria range: <±20%D | | | |
| | 1254 -1 | 11.33 | 11.34 | 121949 | 100 | 107 | 6.5 | |
| | 1254-2 | 11.75 | 11.77 | 38589 | 100 | 109 | 9.0 | |
| | 1254-3 | 11.85 | 11.86 | 76782 | 100 | 105 | 5.0 | |
| | 1254-4 | 11.94 | 11.96 | 24561 | 100 | 102 | 2.0 | |
| | 1254-5 | 12.04 | 12.06 | 137942 | 100 | 105 | 5.3 | |
| | 1254 -1 #2 | 7.68 | 7.69 | 136174 | 100 | 105 | 4.9 | |
| | 1254-2 #2 | 8.06 | 8.07 | 173349 | 100 | 106 | 6.0 | |
| | 1254-3 #2 | 8.47 | 8.48 | 118943 | 100 | 103 | 3.0 | |
| | 1254-4 #2 | 8.66 | 8.66 | 215756 | 100 | 105 | 5.0 | |
| | 1254-5 #2 | 8.94 | 8.94 | 83421 | 100 | 109 | 9.0 | |

| Average %Difference: | %Diff |
|---|---|
| 1254 Column 1 (n=5) | 5.6 |
| 1254 Column 2 (n=5) | 5.6 |

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dw\
Data File : M033017a25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 20:49 pm
Operator : DWOOD
Sample : 87PCB083016C
Misc : PCB 1254 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 17 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:58:10 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1254 -1 | 11.326 | 7.684 | 121949 | 136174 | 106.518 | 104.928 |
| 2) L1 1254-2 | 11.753 | 8.064 | 38589 | 173349 | 108.987 | 105.966 |
| 3) L1 1254-3 | 11.850 | 8.472 | 76782 | 118943 | 105.036 | 102.995 |
| 4) L1 1254-4 | 11.943 | 8.656 | 24561 | 215756 | 102.045 | 104.985 |
| 5) L1 1254-5 | 12.038 | 8.936 | 137942 | 83421 | 105.256 | 108.955 |
| Sum 1254 -1 | | | 399823 | 727642 | 527.842 | 527.828 |
| Average 1254 -1 | | | | | 105.568 | 105.566 |

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

lw
3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dw\
Data File : M033017a25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 20:49 pm
Operator : DWOOD
Sample : 87PCB083016C
Misc : PCB 1254 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 17 (Sig #2) Sample Multiplier: 1

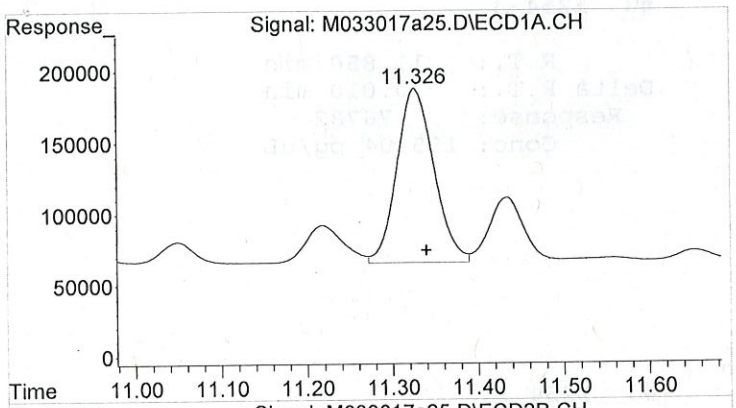
Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:58:10 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1254 -1 | 11.326 | 7.684 | 121949 | 136174 | 106.518 | 104.928 |
| 2) L1 1254-2 | 11.753 | 8.064 | 38589 | 173349 | 108.987 | 105.966 |
| 3) L1 1254-3 | 11.850 | 8.472 | 76782 | 118943 | 105.036 | 102.995 |
| 4) L1 1254-4 | 11.943 | 8.656 | 24561 | 215756 | 102.045 | 104.985 |
| 5) L1 1254-5 | 12.038 | 8.936 | 137942 | 83421 | 105.256 | 108.955 |
| Sum 1254 -1 | | | 399823 | 727642 | 527.842 | 527.828 |
| Average 1254 -1 | | | | | 105.568 | 105.566 |

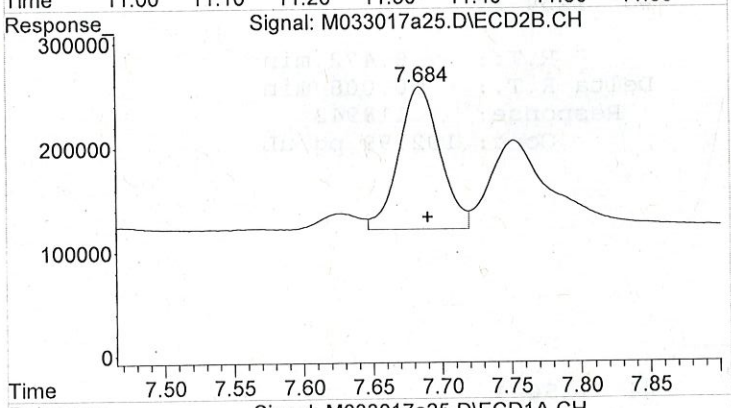
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
3/31/17



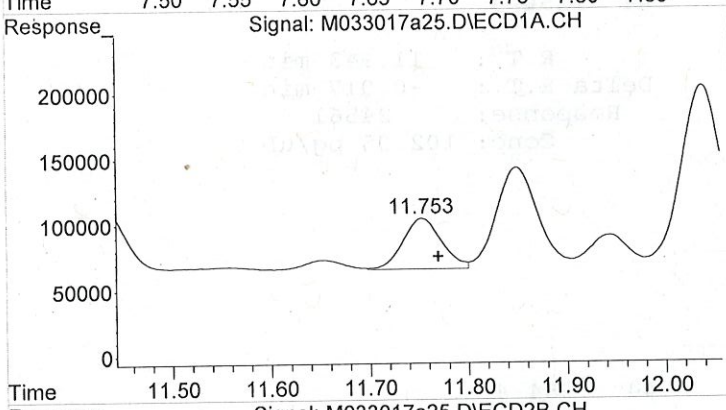

#1 1254 -1

R.T.: 11.326 min
Delta R.T.: -0.014 min
Response: 121949
Conc: 106.52 pg/uL



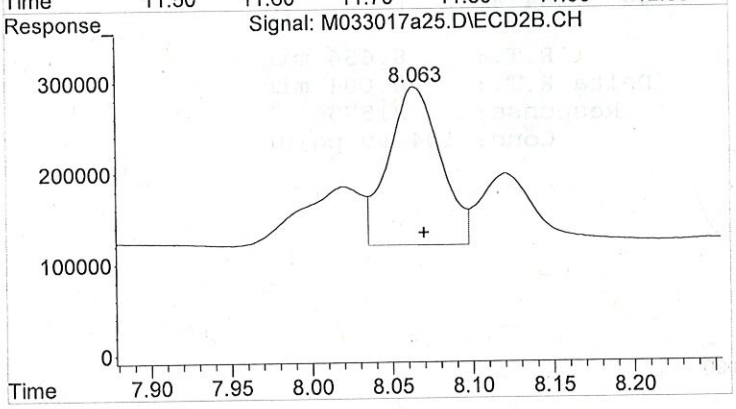

#1 1254 -1

R.T.: 7.684 min
Delta R.T.: -0.006 min
Response: 136174
Conc: 104.93 pg/uL



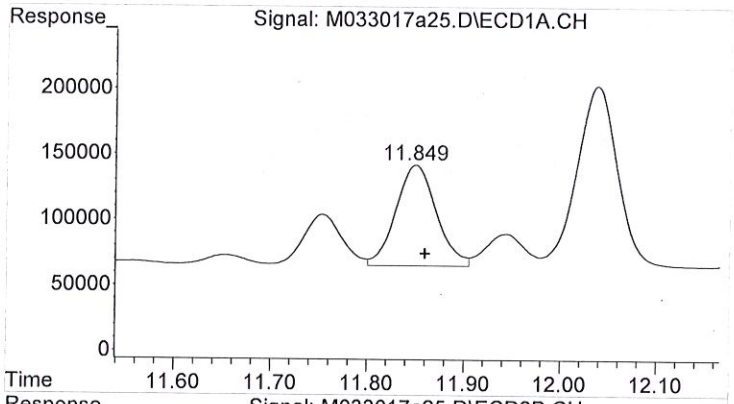

#2 1254-2

R.T.: 11.753 min
Delta R.T.: -0.017 min
Response: 38589
Conc: 108.99 pg/uL



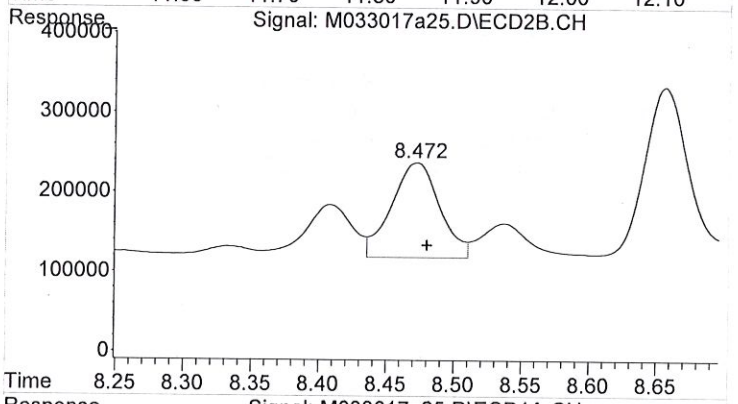

#2 1254-2

R.T.: 8.064 min
Delta R.T.: -0.006 min
Response: 173349
Conc: 105.97 pg/uL



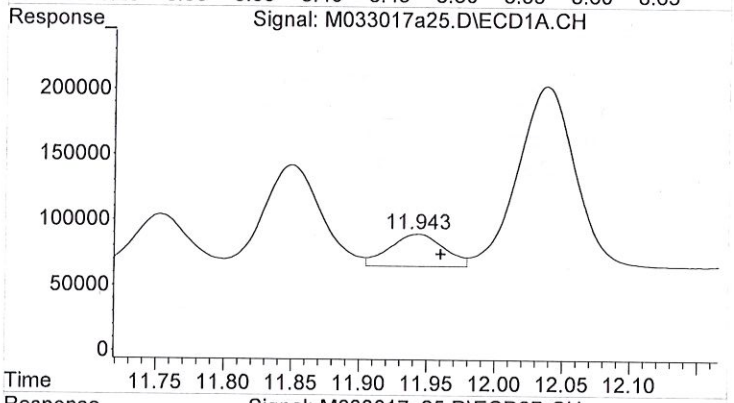

#3 1254-3

R.T.: 11.850 min
Delta R.T.: -0.010 min
Response: 76782
Conc: 105.04 pg/uL



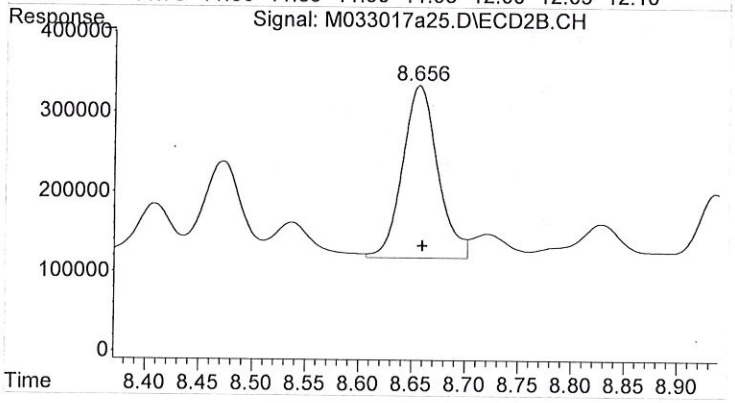

#3 1254-3

R.T.: 8.472 min
Delta R.T.: -0.008 min
Response: 118943
Conc: 102.99 pg/uL



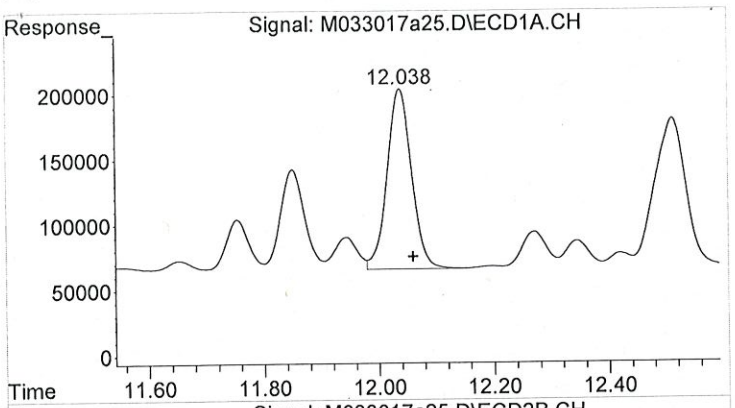

#4 1254-4

R.T.: 11.943 min
Delta R.T.: -0.017 min
Response: 24561
Conc: 102.05 pg/uL



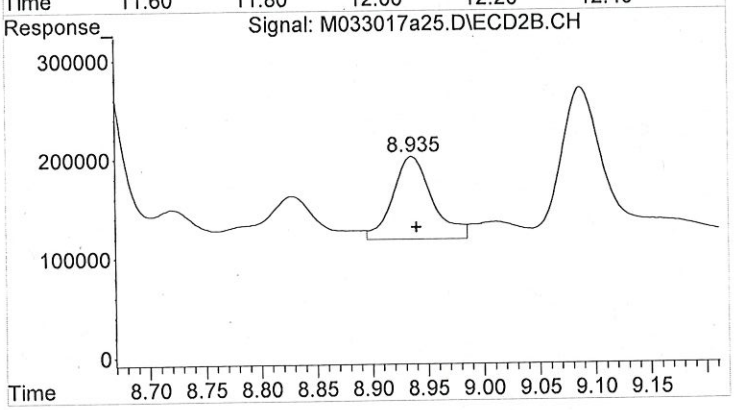

#4 1254-4

R.T.: 8.656 min
Delta R.T.: -0.004 min
Response: 215756
Conc: 104.99 pg/uL




#5 1254-5

R.T.: 12.038 min
Delta R.T.: -0.022 min
Response: 137942
Conc: 105.26 pg/uL




#5 1254-5

R.T.: 8.936 min
Delta R.T.: -0.004 min
Response: 83421
Conc: 108.95 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.....: 17104000
Data File....: M032817a07.D
Project.....: OCE-009C
Matrix.....~~W 42 - Wipe~~ PUF
Analyzed.....: 03/28/2017 19:23
Type.....: 0
Additional Info..: Sky Valley PCB PUF 2mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M032117PCB1260.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\M032817a07.D

Date Prepped...: 3/28/2017
ICAL Date.....: 03/21/2017
Prep Method....: 3541
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: 7

Instrument.....: Minerva
Amount Extracted.: 1 ~~wipe~~ PW PUF
Percent Solids...: NA
Final Volume.....: 2 mL
Dilution.....: 1x D0

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) | 6.98 | 6.99 | 2281420 | | 100 | 86 | 86 %Rec | |
| 12 | 2.5 | 250 | dcb | 17.77 | 17.79 | 1293930 | | 100 | 88 | 88 %Rec | |
| 14 | 2.5 | 250 | tmx (1) #2 | 4.80 | 4.80 | 3996070 | | 100 | 97 | 97 %Rec | |
| 25 | 2.5 | 250 | dcb #2 | 13.28 | 13.28 | 2292960 | | 100 | 96 | 96 %Rec | |
| 2 | 25 | 1000 | 1016 -1 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 3 | 25 | 1000 | 1016-2 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 4 | 25 | 1000 | 1016-3 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 5 | 25 | 1000 | 1016-4 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 6 | 25 | 1000 | 1016-5 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 7 | 25 | 1000 | 1260-1 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 8 | 25 | 1000 | 1260-2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 9 | 25 | 1000 | 1260-3 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 10 | 25 | 1000 | 1260-4 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 11 | 25 | 1000 | 1260-5 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 15 | 25 | 1000 | 1016 -1 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 16 | 25 | 1000 | 1016-2 #2 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 17 | 25 | 1000 | 1016-3 #2 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 18 | 25 | 1000 | 1016-4 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 19 | 25 | 1000 | 1016-5 #2 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 20 | 25 | 1000 | 1260-1 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 21 | 25 | 1000 | 1260-2 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 22 | 25 | 1000 | 1260-3 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 23 | 25 | 1000 | 1260-4 #2 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 24 | 25 | 1000 | 1260-5 #2 | - | - | - | | - | - | 0.050 ug (RL) | U |

| CAS# | Name | Avg | Unit | n | %RSD | Column RPD[2] |
|---|---|---|---|---|---|---|
| 12674112 | 1016 Column 1 | 0.050 | ug (RL) | 0 | NA | |
| 12674112 | 1016 Column 2 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 1 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 2 | 0.050 | ug (RL) | 0 | NA | |

Results will be reported from Column 1

[1]'Amount' units are pg or pg/uL on column. [2]RPD (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.



Generated Fri Mar 31 11:06:02 2017

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 7:23 pm
Operator : DWOOD
Sample : 17104000
Misc : Sky Valley PCB PUF 2mL 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: Mar 30 16:23:51 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.982 | 4.799 | 2281424 | 3996070 | 86.118 | 96.980 |
| 12) S2 dcb | 17.774 | 13.281 | 1293929 | 2292964 | 87.794 | 96.076 |
| 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. 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 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8) L2 1260-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. 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. | 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.

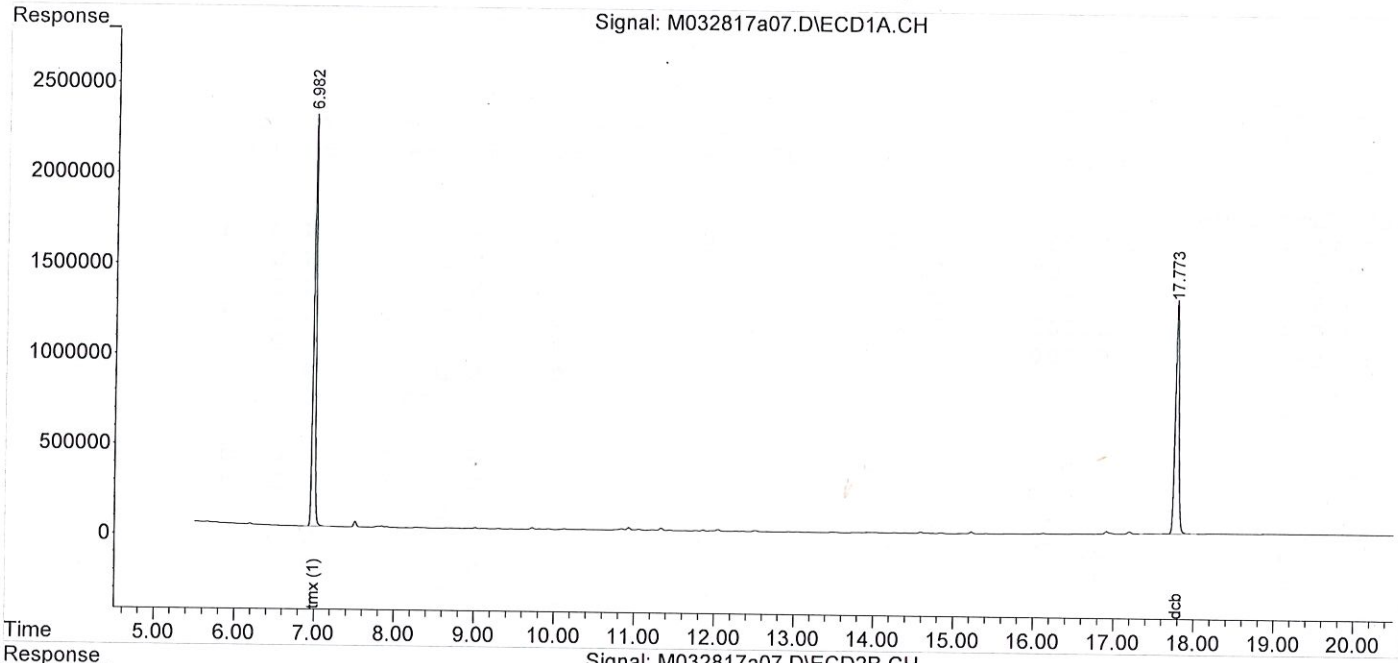
bw
3/31/17

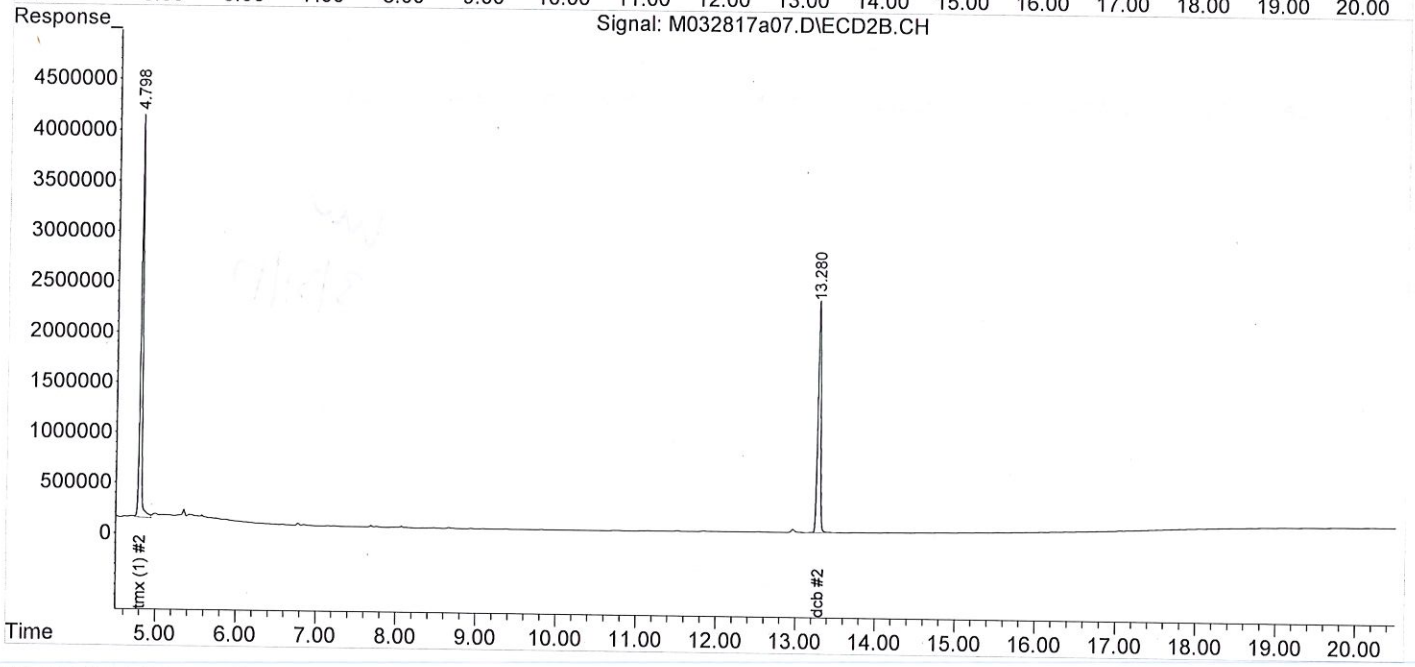
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 7:23 pm
Operator : DWOOD
Sample : 17104000
Misc : Sky Valley PCB PUF 2mL 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: Mar 30 16:23:51 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 19:23 pm
Operator : DWOOD
Sample : 17104000
Misc : PCB PUF IDOC 2mL fv
ALS Vial : 0 (Sig #1); 7 (Sig #2) Sample Multiplier: 1

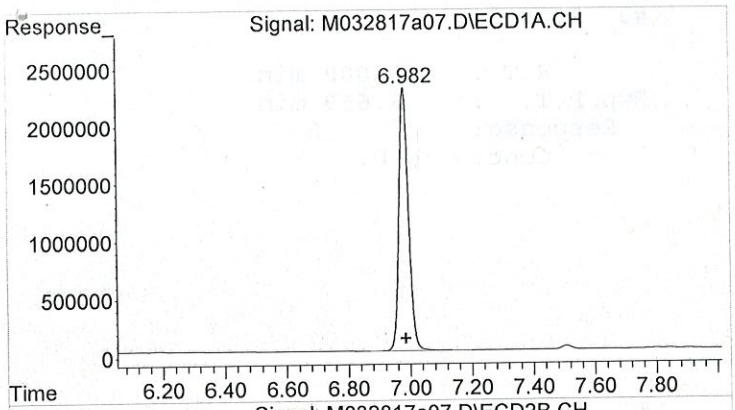
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 08:36:03 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.982 | 4.799 | 2281424 | 3996070 | 86.118 | 96.980 |
| 12) S2 dcb | 17.774 | 13.281 | 1293929 | 2292964 | 87.794 | 96.076 |
| Target Compounds | | | | | | |
| 2) L1 1016 -1 | 0.000 | 5.352 | 0 | ~~97833~~ W | N.D. | 116.728 # |
| 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 | 6.575 | 0 | ~~5686~~ W | N.D. | 2.886 # |
| 6) L1 1016-5 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| Sum 1016 -1 | | | 0 | 103519 | N.D. | 119.614 |
| Average 1016 -1 | | | | | 0.000 | 59.807 |
| 7) L2 1260-1 | 0.000 | 8.940 | 0 | ~~5598~~ W | N.D. | 0.099 # |
| 8) L2 1260-2 | 0.000 | 9.376 | 0 | ~~5457~~ W | N.D. | 1.052 # |
| 9) L2 1260-3 | 0.000 | 9.821 | 0 | ~~4181~~ W | N.D. | 3.685 # |
| 10) L2 1260-4 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 11) L2 1260-5 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| Sum 1260-1 | | | 0 | 15236 | N.D. | 4.836 |
| Average 1260-1 | | | | | 0.000 | 1.612 |

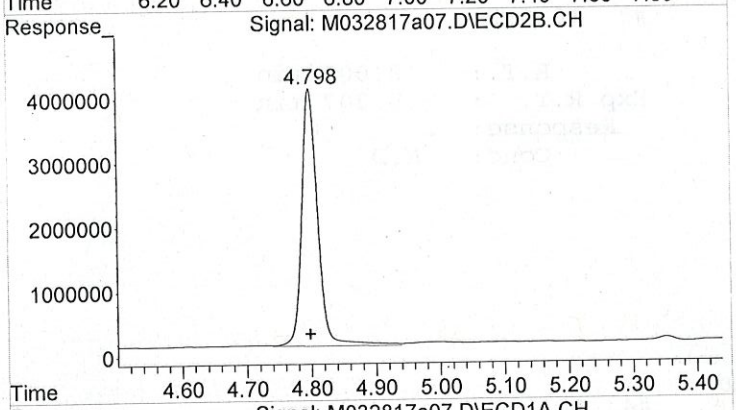
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW
3/30/17



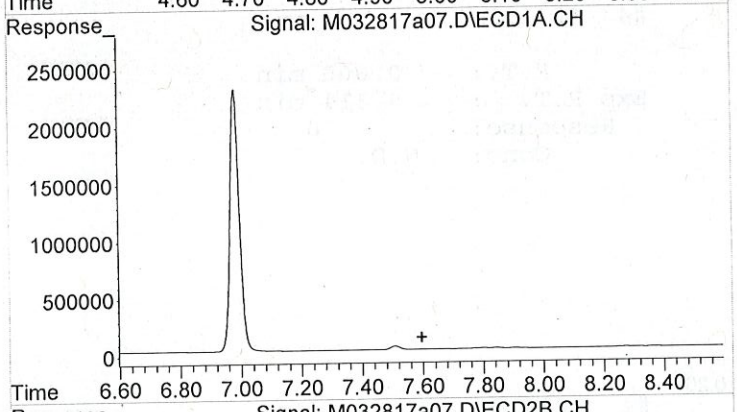

#1 tmx (1)

R.T.: 6.982 min
Delta R.T.: -0.004 min
Response: 2281424
Conc: 86.12 pg/uL



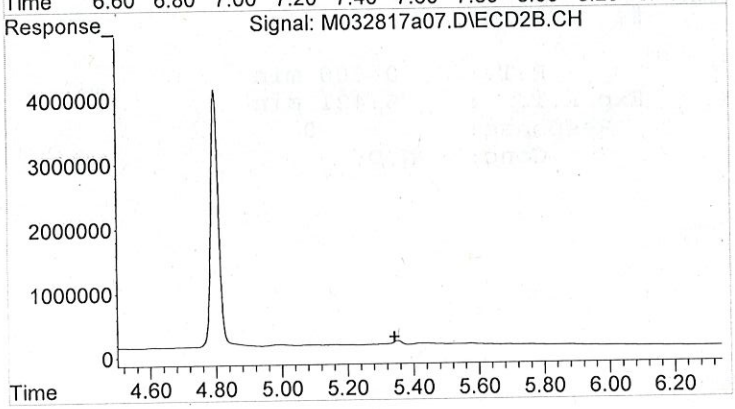

#1 tmx (1)

R.T.: 4.799 min
Delta R.T.: 0.000 min
Response: 3996070
Conc: 96.98 pg/uL



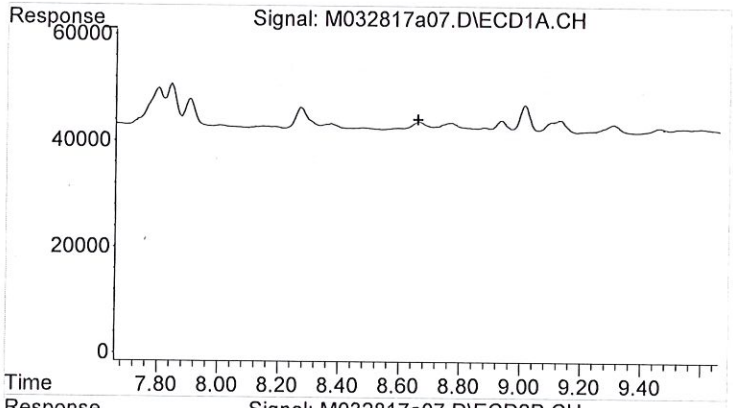

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



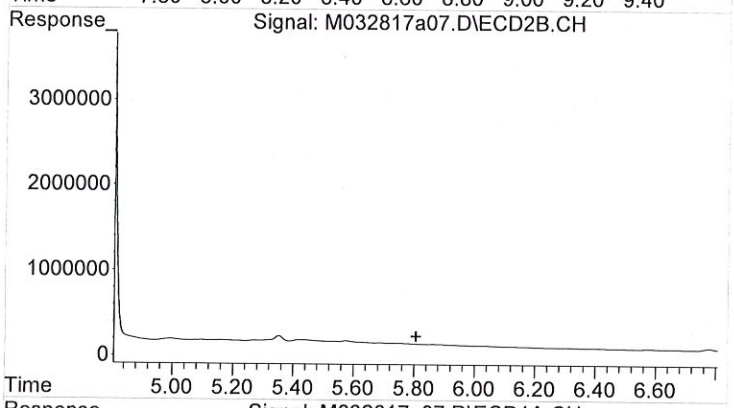

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



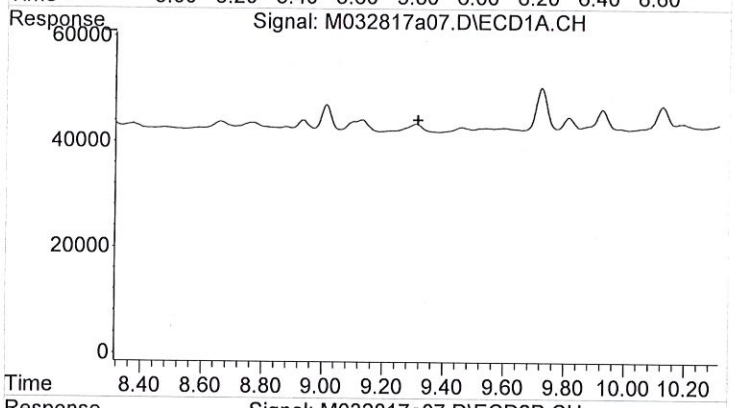

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



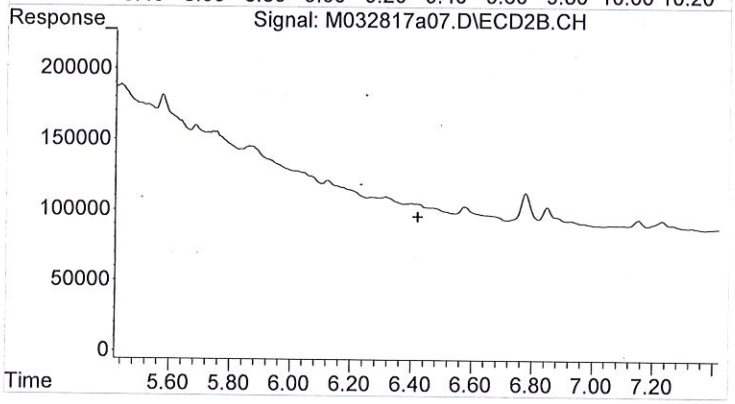

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



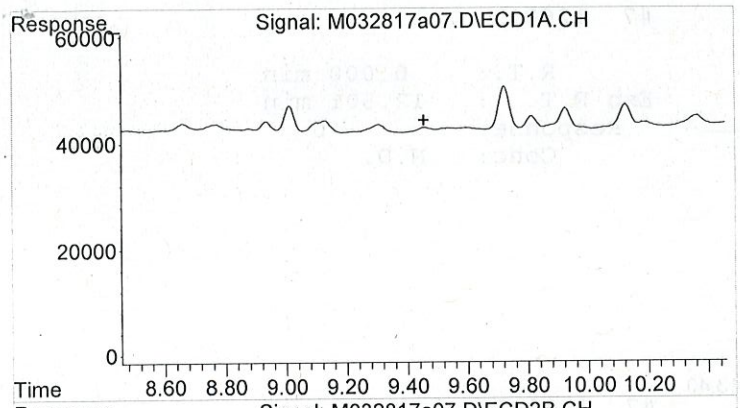

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



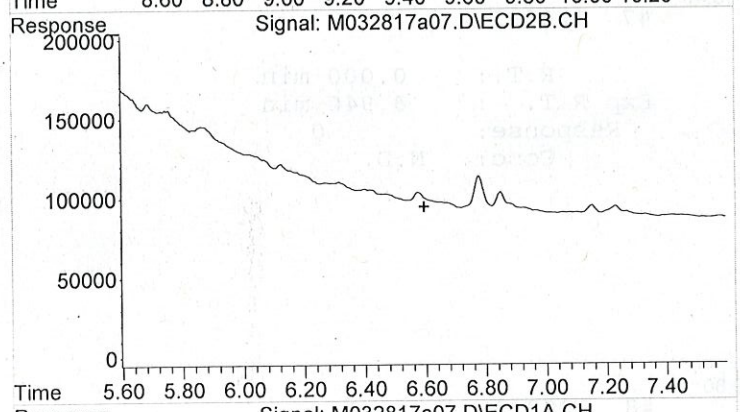

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



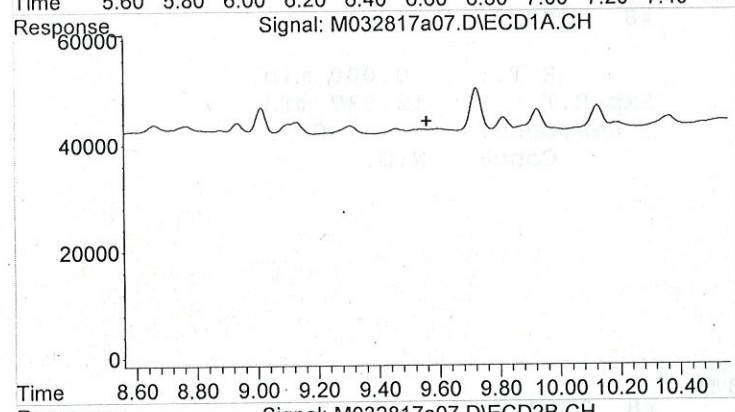

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



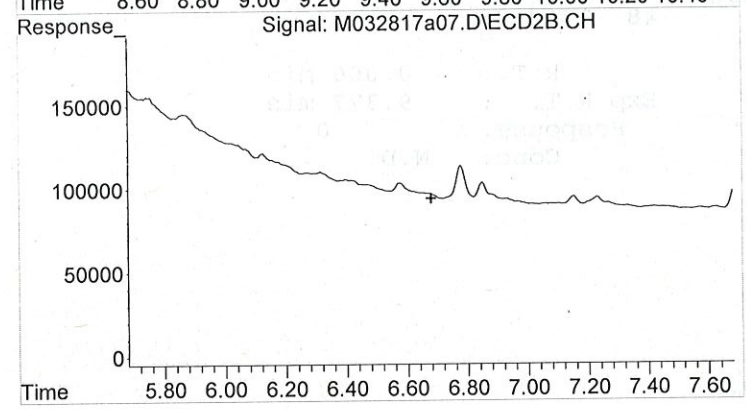

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



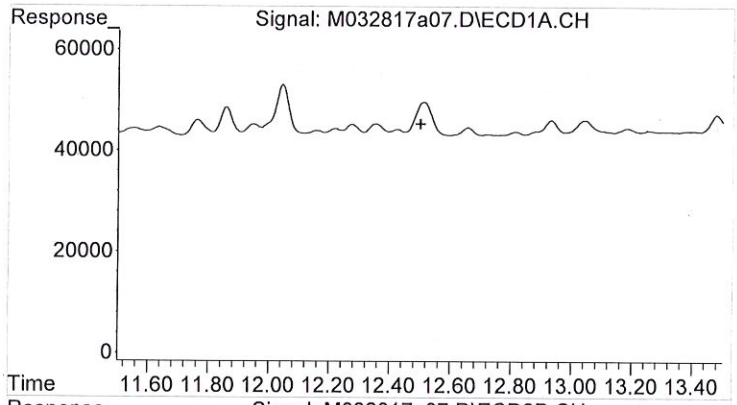

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



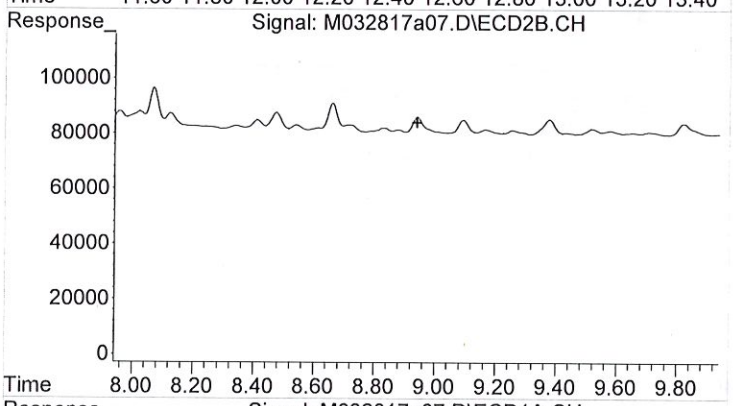

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



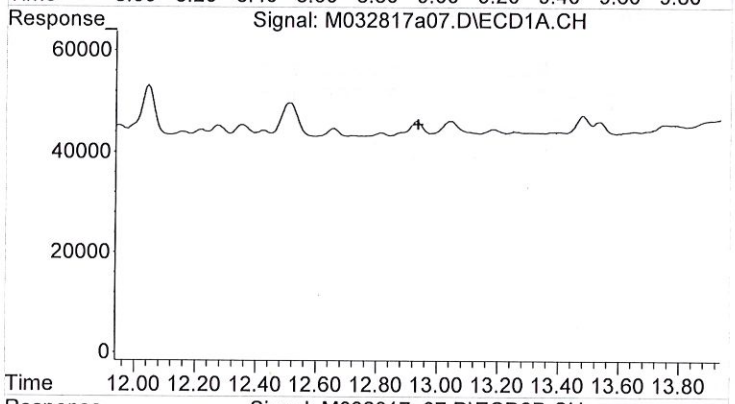

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.501 min
Response: 0
Conc: N.D.



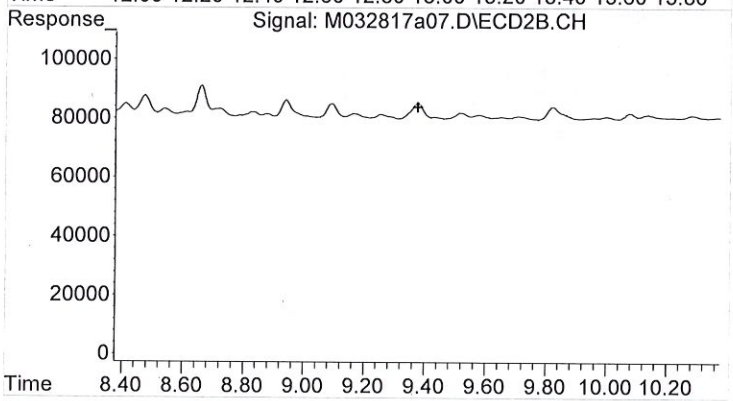

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 8.940 min
Response: 0
Conc: N.D.



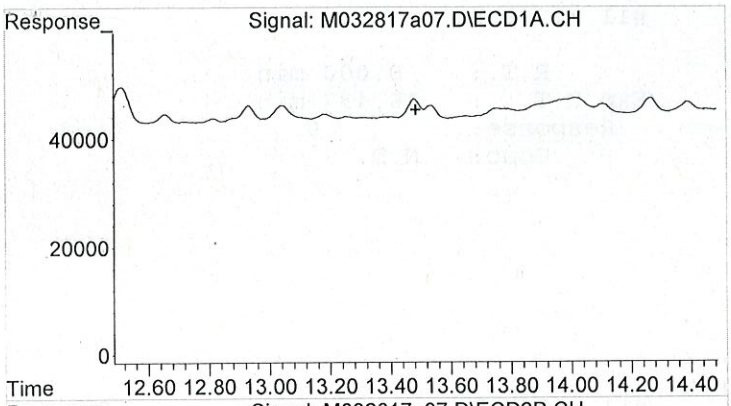

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 12.937 min
Response: 0
Conc: N.D.



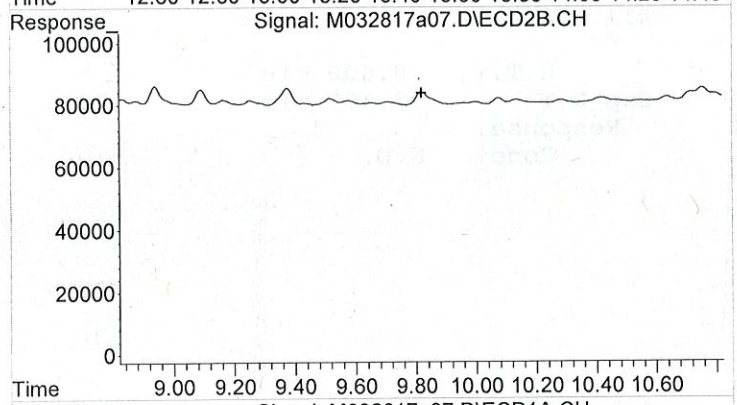

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.377 min
Response: 0
Conc: N.D.



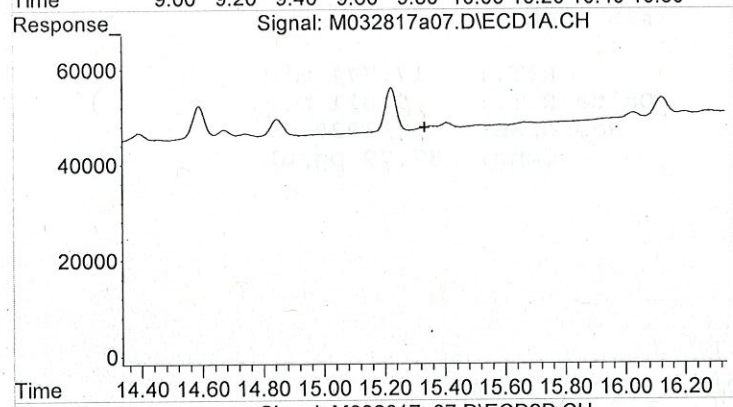

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.486 min
Response: 0
Conc: N.D.



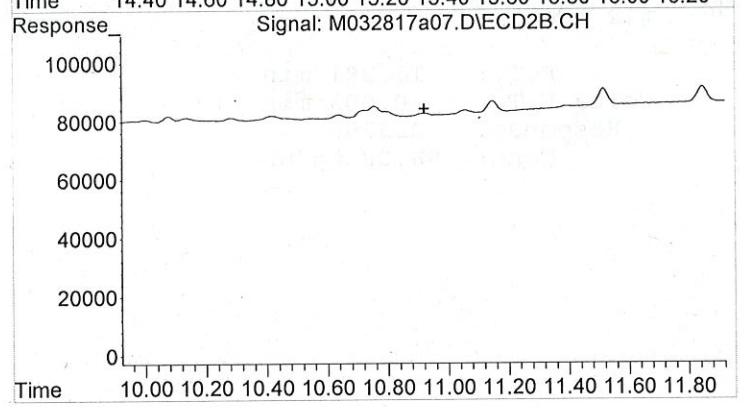

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 9.821 min
Response: 0
Conc: N.D.



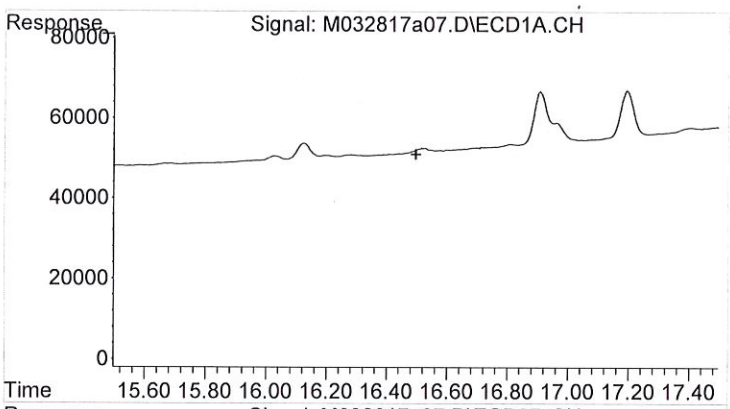

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.335 min
Response: 0
Conc: N.D.



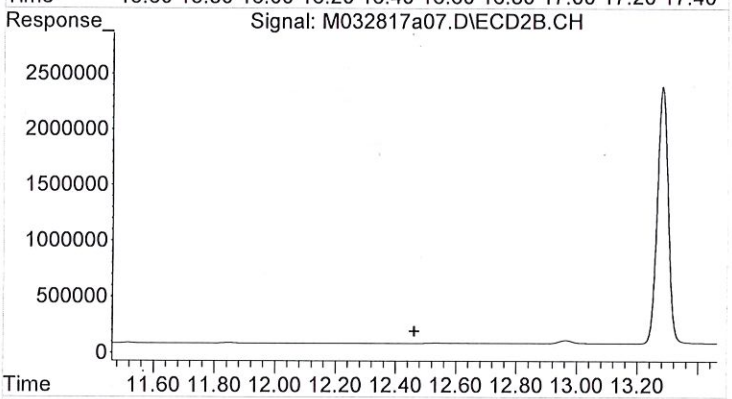

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 10.922 min
Response: 0
Conc: N.D.



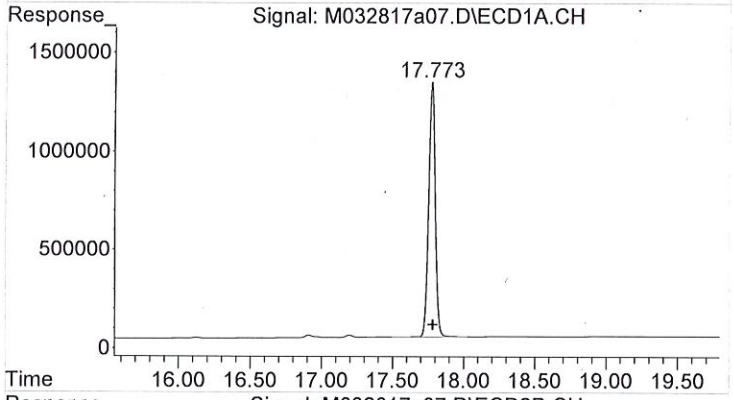

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



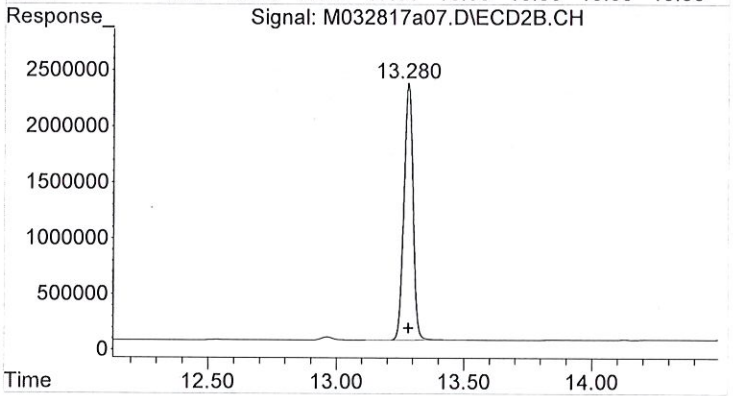

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.




#12 dcb

R.T.: 17.774 min
Delta R.T.: -0.011 min
Response: 1293929
Conc: 87.79 pg/uL




#12 dcb

R.T.: 13.281 min
Delta R.T.: -0.003 min
Response: 2292964
Conc: 96.08 pg/uL

# PCB Sample Results Summary

Sample.....: 17104001
Data File....: M032817a08.D
Project.....: OCE-009C
Matrix.....: ~~Wipe~~ PUF
Analyzed.....: 03/28/2017 19:47
Type.....: 0

Date Prepped...: 3/28/2017
ICAL Date.....: 02/12/2016
Prep Method....: 3541
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: 8

Instrument.....: Minerva
Amount Extracted.: 1 ~~wipe~~ PW PUF
Percent Solids...: NA
Final Volume.....: 2 mL
Dilution.....: 1x D0

Additional Info..: Sky Valley PCB PUF 2mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M032117PCB1242.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\M032817a08.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) | 6.98 | 6.99 | 2076760 | | 100 | 78 | 78 %Rec | |
| 12 | 2.5 | 250 | dcb | 17.77 | 17.79 | 1240000 | | 100 | 84 | 84 %Rec | |
| 14 | 2.5 | 250 | tmx (1) #2 | 4.80 | 4.80 | 3721250 | | 100 | 90 | 90 %Rec | |
| 25 | 2.5 | 250 | dcb #2 | 13.28 | 13.28 | 2151110 | | 100 | 90 | 90 %Rec | |
| 2 | 25 | 1000 | 1016 -1 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 3 | 25 | 1000 | 1016-2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 4 | 25 | 1000 | 1016-3 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 5 | 25 | 1000 | 1016-4 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 6 | 25 | 1000 | 1016-5 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 7 | 25 | 1000 | 1260-1 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 8 | 25 | 1000 | 1260-2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 9 | 25 | 1000 | 1260-3 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 10 | 25 | 1000 | 1260-4 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 11 | 25 | 1000 | 1260-5 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 15 | 25 | 1000 | 1016 -1 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 16 | 25 | 1000 | 1016-2 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 17 | 25 | 1000 | 1016-3 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 18 | 25 | 1000 | 1016-4 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 19 | 25 | 1000 | 1016-5 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 20 | 25 | 1000 | 1260-1 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 21 | 25 | 1000 | 1260-2 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 22 | 25 | 1000 | 1260-3 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 23 | 25 | 1000 | 1260-4 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 24 | 25 | 1000 | 1260-5 #2 | - | - | - | | - | - | 0.050 ug (RL) | U |

| CAS# | Name | Avg | Unit | n | %RSD | Column RPD[2] |
|---|---|---|---|---|---|---|
| 12674112 | 1016 Column 1 | 0.050 | ug (RL) | 0 | NA | Results will be reported from Column 1 |
| 12674112 | 1016 Column 2 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 1 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 2 | 0.050 | ug (RL) | 0 | NA | |

[1]'Amount' units are pg or pg/uL on column. [2]RPD (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 2017 DATA\M032817PCBDW\
Data File : M032817a08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 7:47 pm
Operator : DWOOD
Sample : 17104001
Misc : Sky Valley PCB PUF 2mL fv
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: Mar 30 16:26:00 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.982 | 4.800 | 2076762 | 3721245 | 78.347 | 90.250 |
| 12) S2 dcb | 17.772 | 13.280 | 1239997 | 2151107 | 84.082 | 90.119 |
| 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. d | N.D. 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. d | N.D. d |
| 8) L2 1260-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. 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.

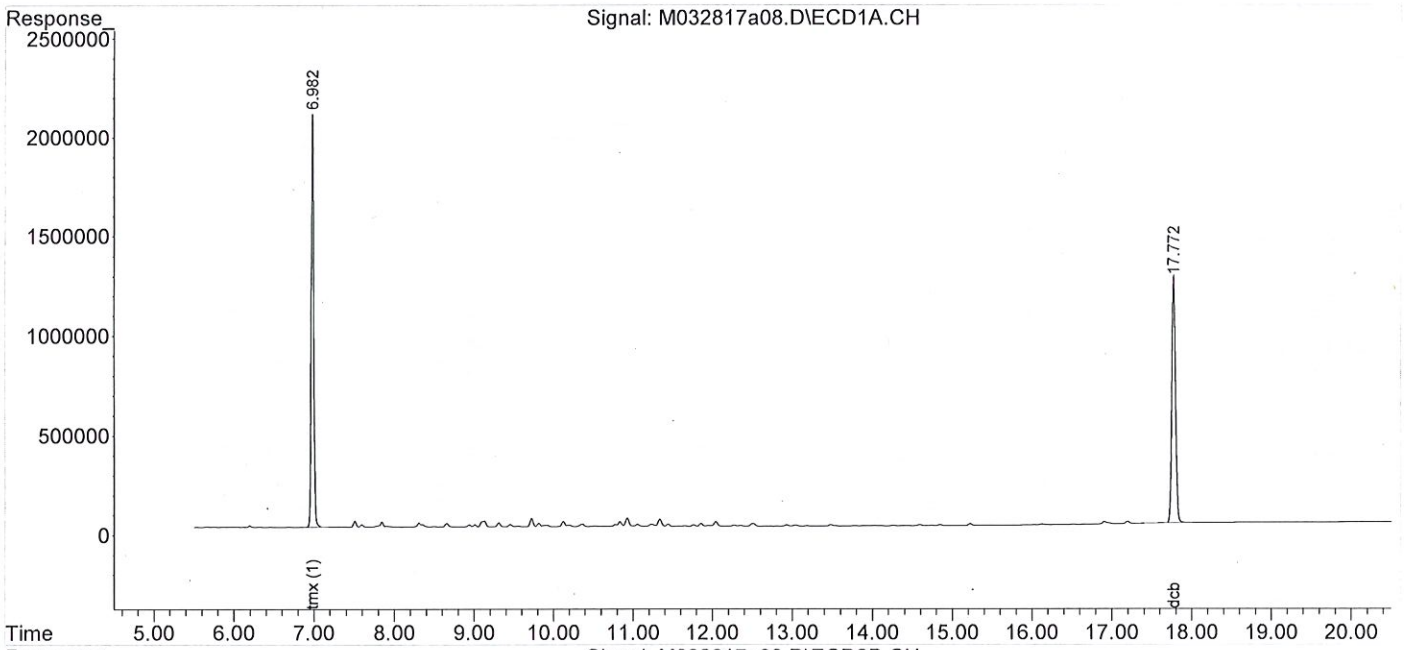
bw
3/31/17

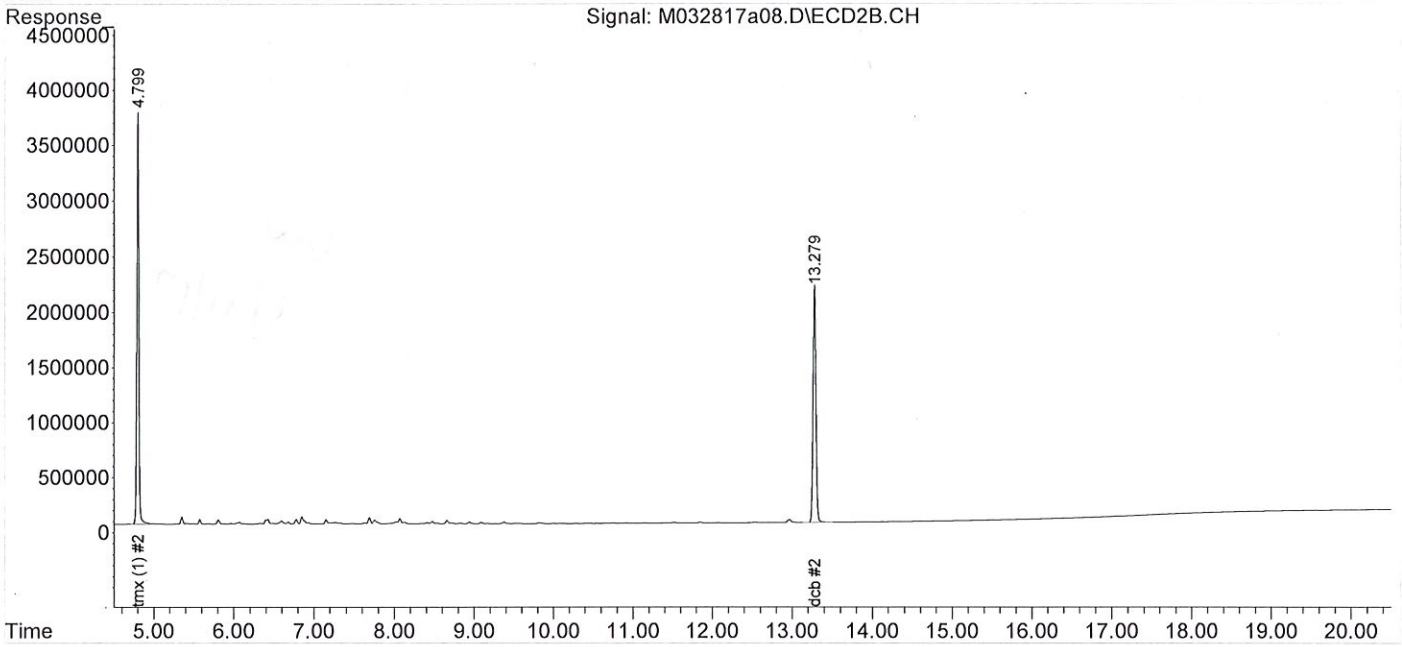
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 7:47 pm
Operator : DWOOD
Sample : 17104001
Misc : Sky Valley PCB PUF 2mL fv
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: Mar 30 16:26:00 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



Quantitation Report (Not Reviewed)

: J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
.e : M032817a08.D
(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
on : 28 Mar 2017 19:47 pm
rator : DWOOD
ample : 17104001
Misc : PCB PUF IDOC 2mL fv
ALS Vial : 0 (Sig #1); 8 (Sig #2) Sample Multiplier: 1

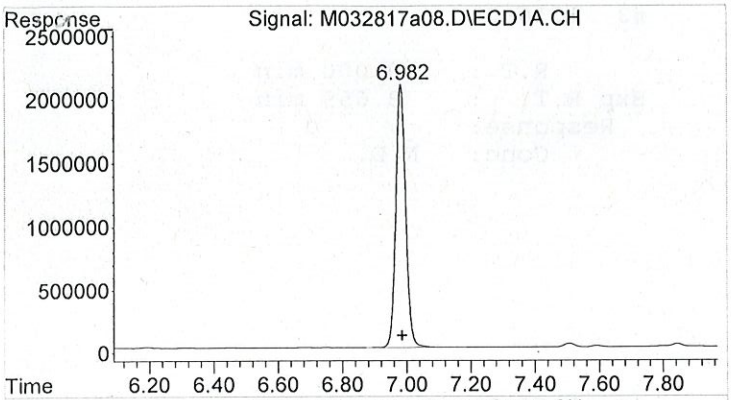
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 08:36:09 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL | |
|---|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | | |
| 1) | S2 tmx (1) | 6.982 | 4.800 | 2076762 | 3721245 | 78.347 | 90.250 | |
| 12) | S2 dcb | 17.772 | 13.280 | 1239997 | 2151107 | 84.082 | 90.119 | |
| | Target Compounds | | | | | | | |
| 2) | L1 1016 -1 | 7.592 | 5.350 | 11514 | 65018 | 15.541 | 75.772 | # |
| 3) | L1 1016-2 | 8.656 | 5.806 | 16884 | 37537 | 17.603 | 23.326 | # |
| 4) | L1 1016-3 | 9.308 | 6.420 | 19088 | 42314 | 15.633 | 20.850 | # |
| 5) | L1 1016-4 | 9.452 | 6.594 | 10900 | 27890 | 13.605 | 22.928 | # |
| 6) | L1 1016-5 | 0.000 | 6.678 | 0 | 18160 | N.D. | 21.251 | # |
| | Sum 1016 -1 | | | 58386 | 190919 | 62.382 | 164.127 | |
| | Average 1016 -1 | | | | | 15.595 | 32.825 | |
| 7) | L2 1260-1 | 12.505 | 8.938 | 13645 | 14836 | N.D. | 5.238 | # |
| 8) | L2 1260-2 | 12.928 | 9.376 | 6992 | 13566 | N.D. | 4.195 | # |
| 9) | L2 1260-3 | 13.479 | 9.818 | 7721 | 8826 | N.D. | 5.978 | # |
| 10) | L2 1260-4 | 0.000 | 10.918 | 0 | 2460 | N.D. | 2.816 | # |
| 11) | L2 1260-5 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. | |
| | Sum 1260-1 | | | 0 | 39689 | N.D. | 18.226 | |
| | Average 1260-1 | | | | | 0.000 | 4.557 | |

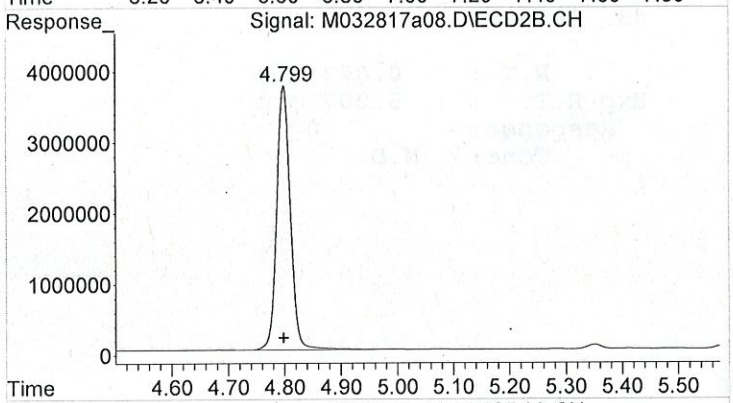
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

3/30/17



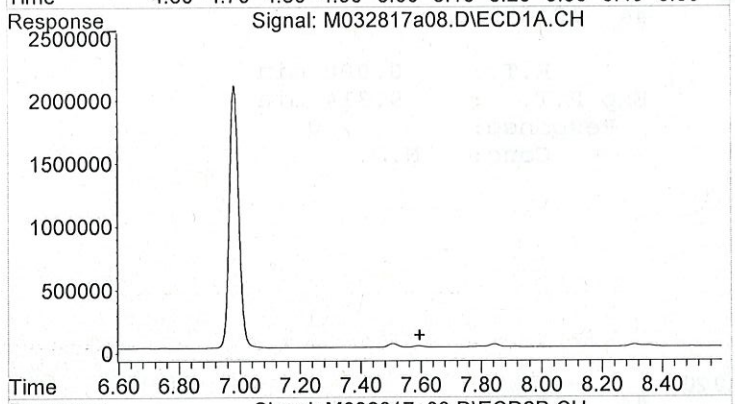

#1 tmx (1)

R.T.: 6.982 min
Delta R.T.: -0.004 min
Response: 2076762
Conc: 78.35 pg/uL



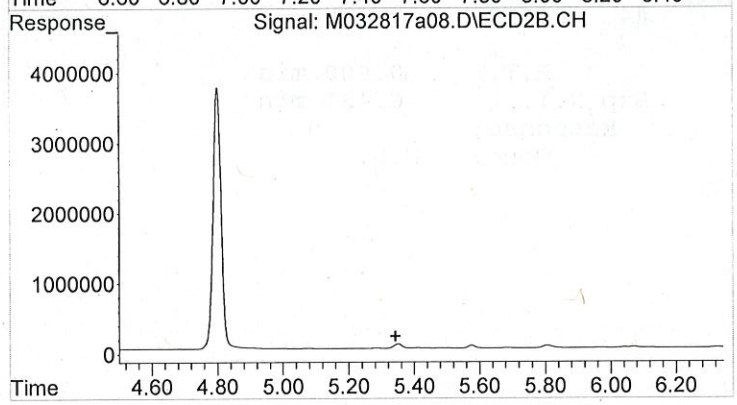

#1 tmx (1)

R.T.: 4.800 min
Delta R.T.: 0.000 min
Response: 3721245
Conc: 90.25 pg/uL



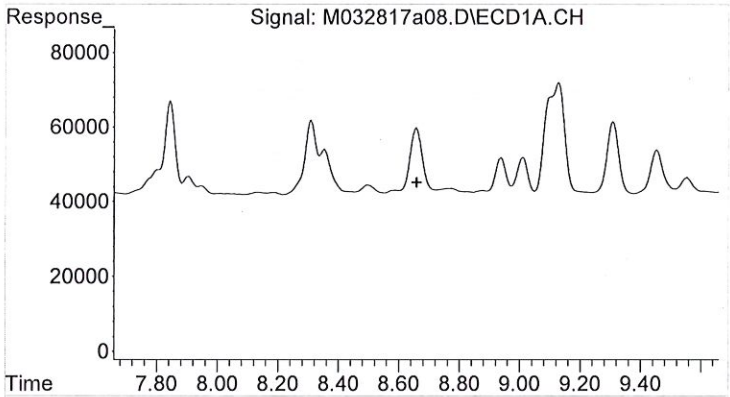

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



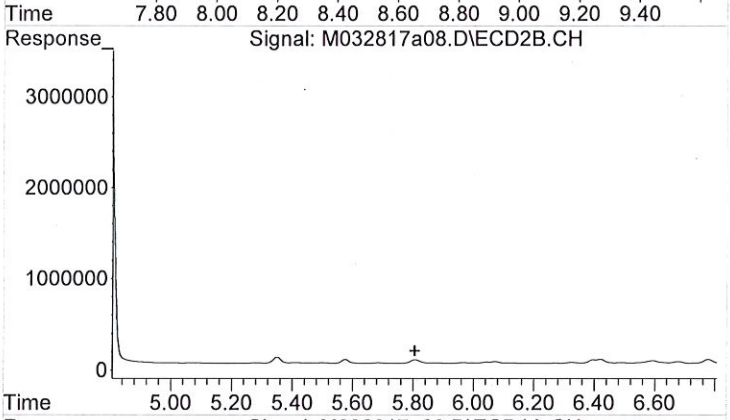

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



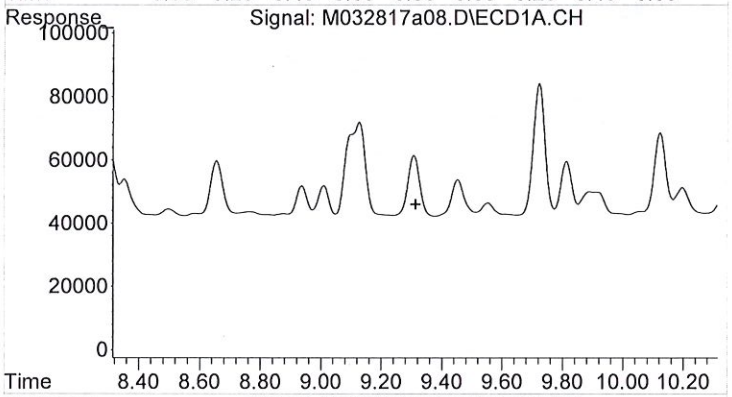

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



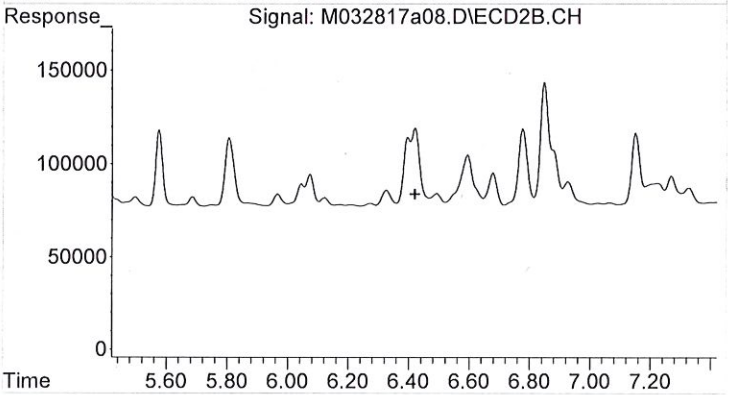

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



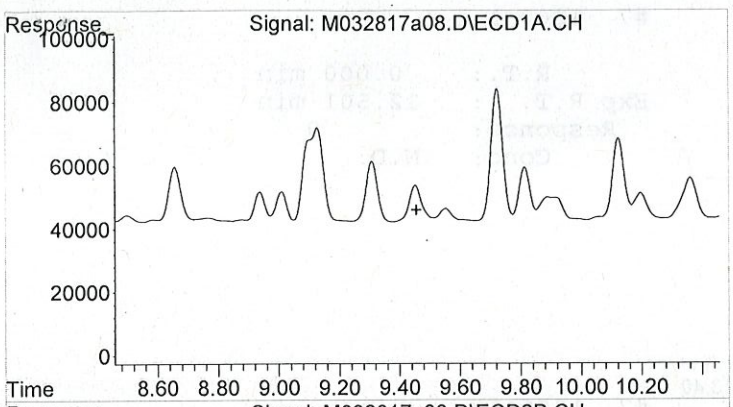

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



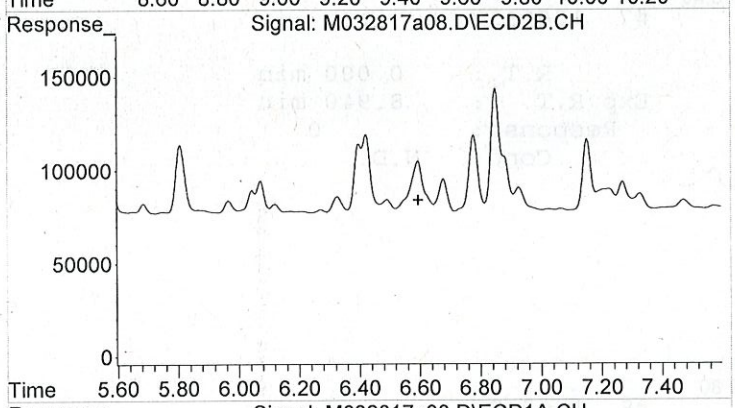

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



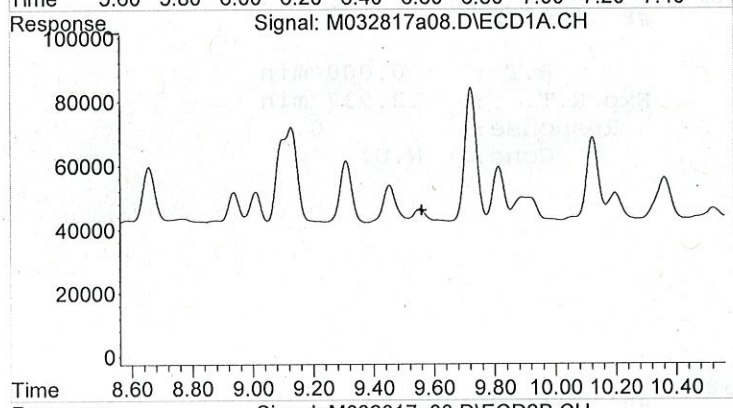

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



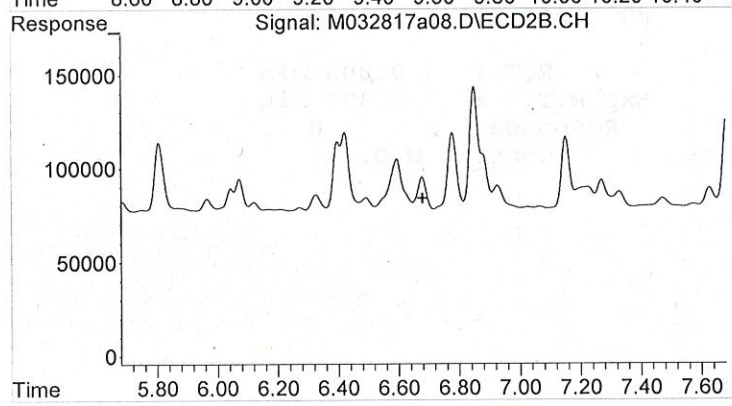

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



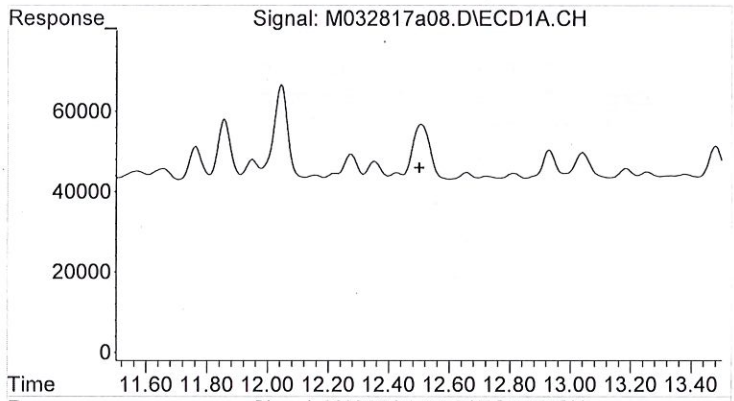

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



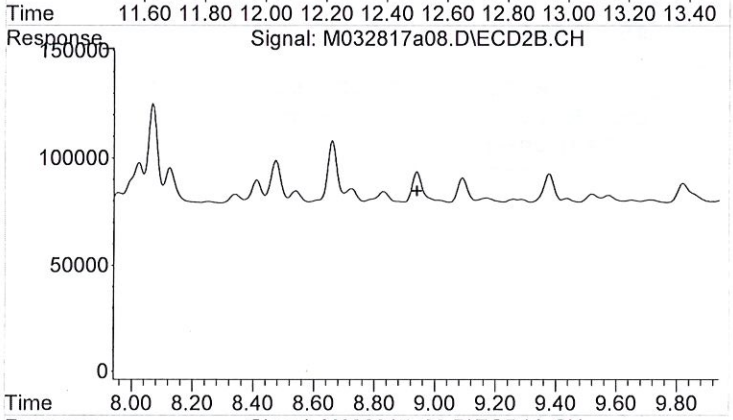

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



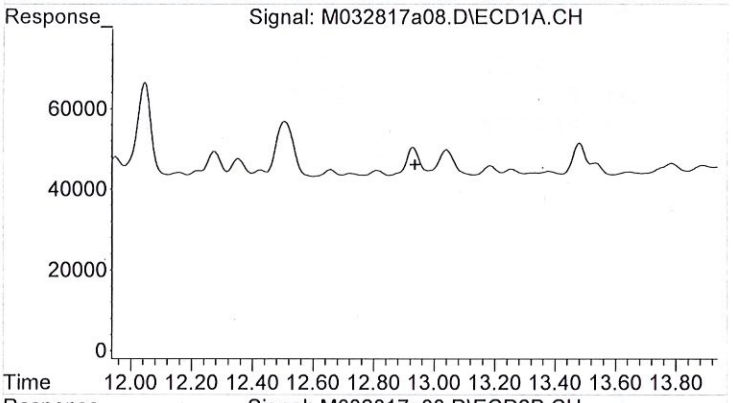

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.501 min
Response: 0
Conc: N.D.



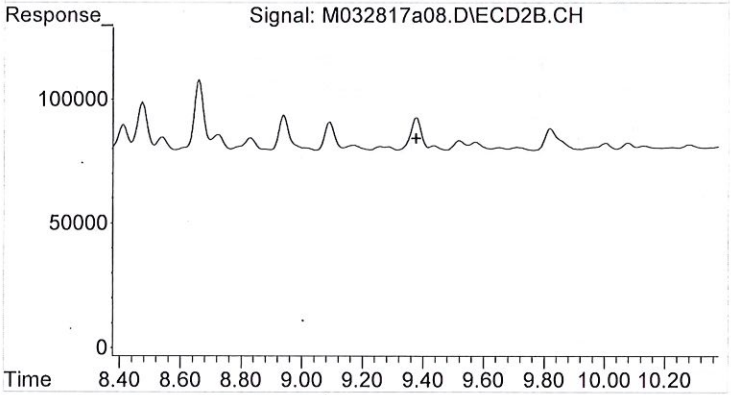

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 8.940 min
Response: 0
Conc: N.D.



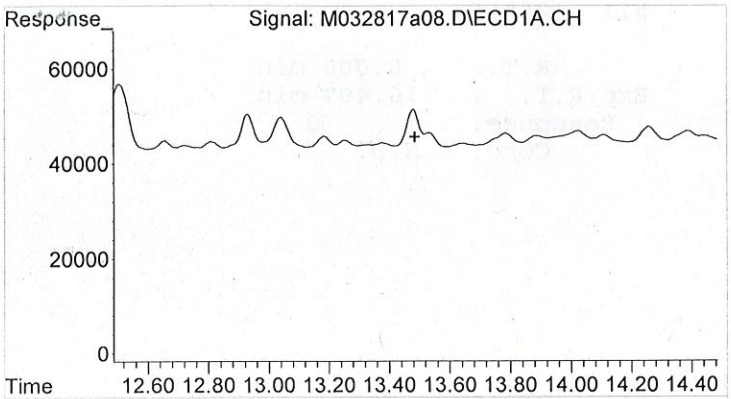

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 12.937 min
Response: 0
Conc: N.D.



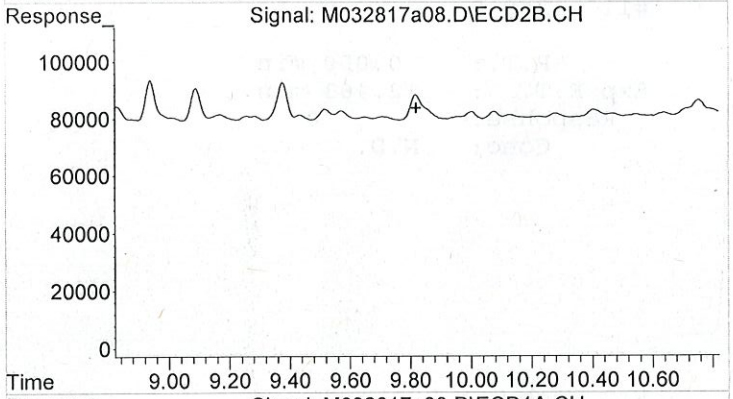

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.377 min
Response: 0
Conc: N.D.



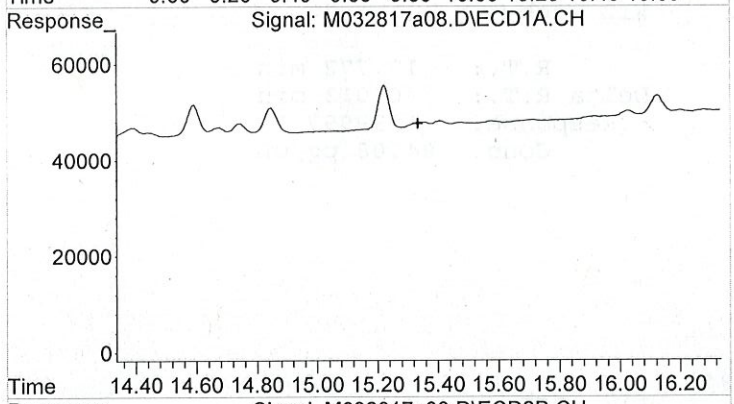

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.486 min
Response: 0
Conc: N.D.



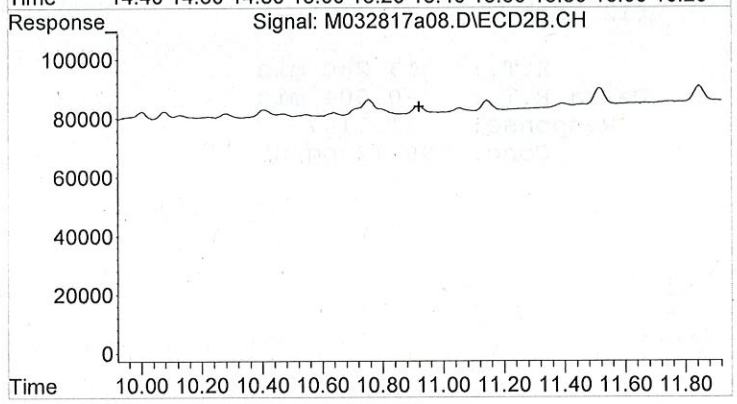

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 9.821 min
Response: 0
Conc: N.D.



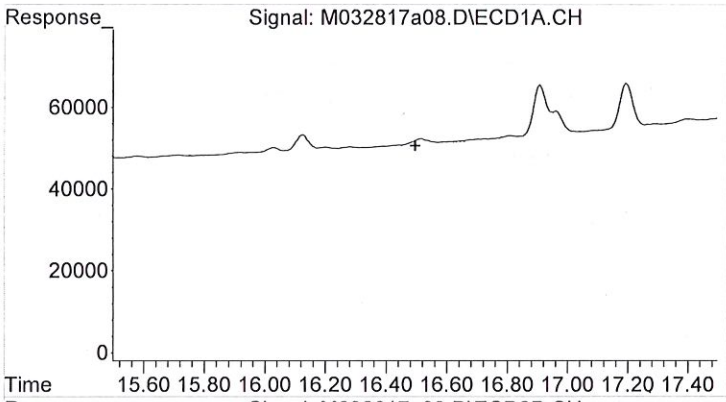

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.335 min
Response: 0
Conc: N.D.



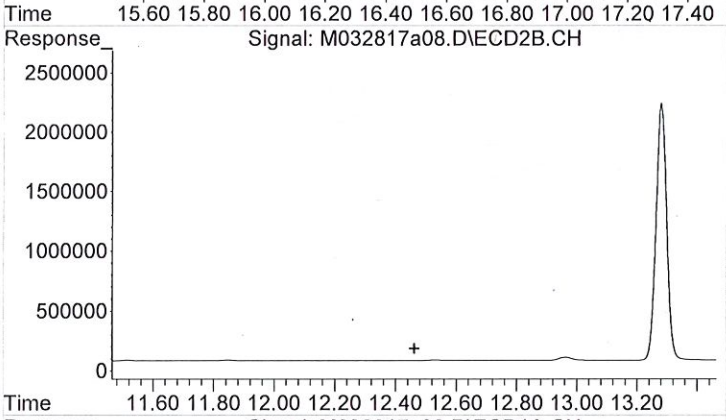

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 10.922 min
Response: 0
Conc: N.D.



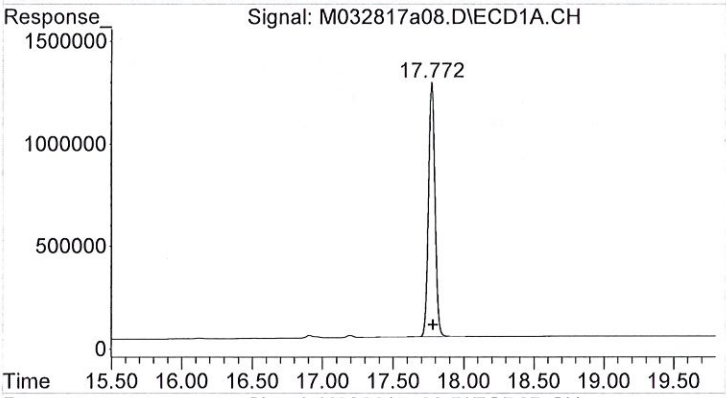

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



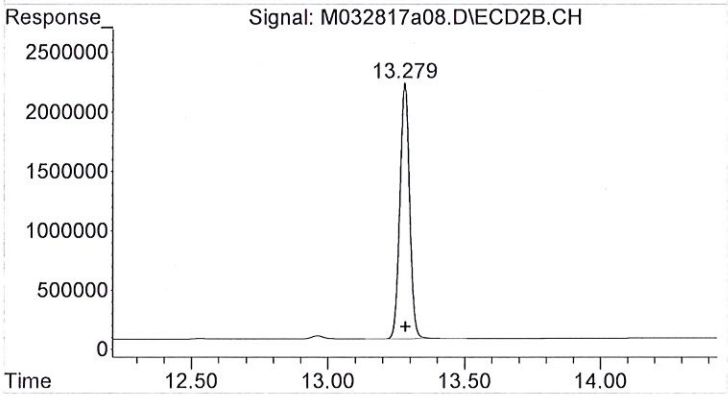

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.




#12 dcb

R.T.: 17.772 min
Delta R.T.: -0.013 min
Response: 1239997
Conc: 84.08 pg/uL




#12 dcb

R.T.: 13.280 min
Delta R.T.: -0.004 min
Response: 2151107
Conc: 90.12 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1242dw\
Data File : M033017a20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 18:45 pm
Operator : DWOOD
Sample : 17104001
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 18 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 31 07:56:04 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1242 -1 | 8.304 | 5.349 | 17042 | 62441 | 23.288 | 96.612 # |
| 2) L1 1242-2 | 8.652 | 5.804 | 15203 | 33277 | 24.920 | 26.228 |
| 3) L1 1242-3 | 9.122 | 6.069 | 26198 | 16261 | 22.235 | 26.727 |
| 4) L1 1242-4 | 9.304 | 6.417 | 16324 | 40157 | 20.508 | 27.255 # |
| 5) L1 1242-5 | 9.447 | 6.591 | 9636 | 26133 | 19.616 | 29.981 # |
| Sum 1242 -1 | | | 84402 | 178270 | 110.566 | 206.804 |
| Average 1242 -1 | | | | | 22.113 | 41.361 |

<25

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

m

bw
3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1242dw\
Data File : M033017a20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 18:45 pm
Operator : DWOOD
Sample : 17104001
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 18 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 31 07:56:04 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

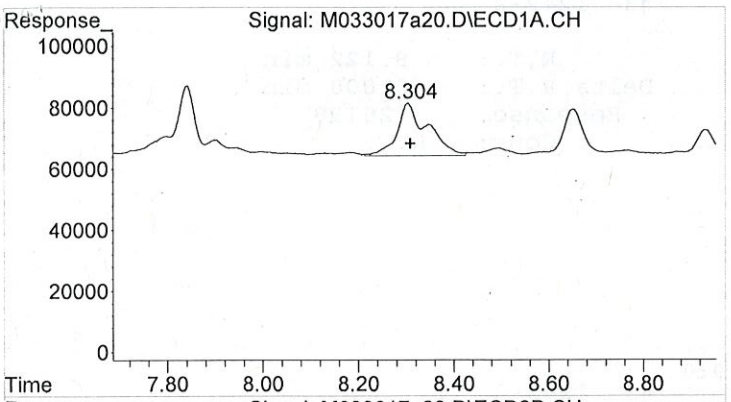
Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1242 -1 | 8.304 | 5.349 | 17042 | 62441 | 23.288 | 96.612 # |
| 2) L1 1242-2 | 8.652 | 5.804 | 15203 | 33277 | 24.920 | 26.228 |
| 3) L1 1242-3 | 9.122 | 6.069 | 26198 | 16261 | 22.235 | 26.727 |
| 4) L1 1242-4 | 9.304 | 6.417 | 16324 | 40157 | 20.508 | 27.255 # |
| 5) L1 1242-5 | 9.447 | 6.591 | 9636 | 26133 | 19.616 | 29.981 # |
| Sum 1242 -1 | | | 84402 | 178270 | 110.566 | 206.804 |
| Average 1242 -1 | | | | | 22.113 | 41.361 |

<25

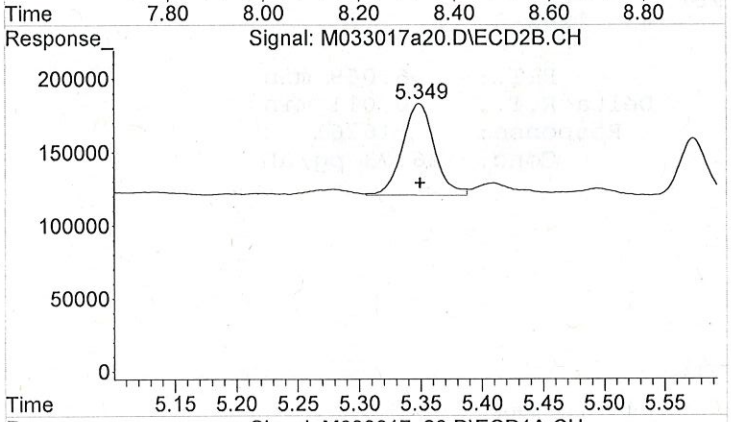
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

hw
3/31/17



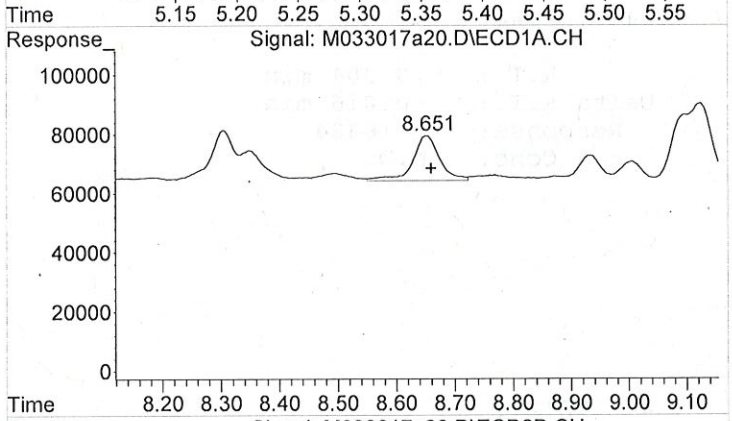

#1 1242 -1

R.T.: 8.304 min
Delta R.T.: -0.006 min
Response: 17042
Conc: N.D.



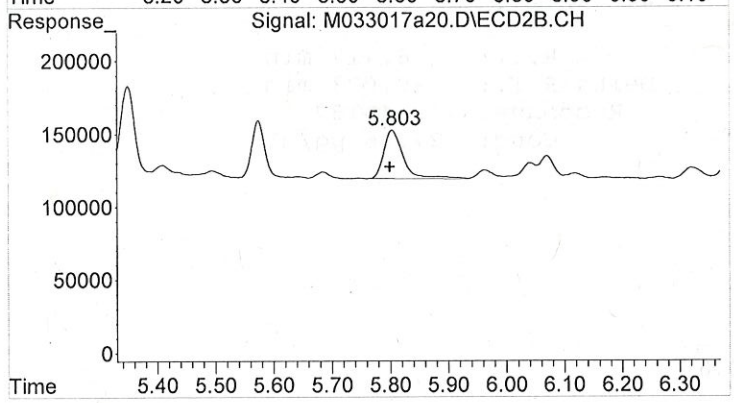

#1 1242 -1

R.T.: 5.349 min
Delta R.T.: -0.001 min
Response: 62441
Conc: 96.61 pg/uL



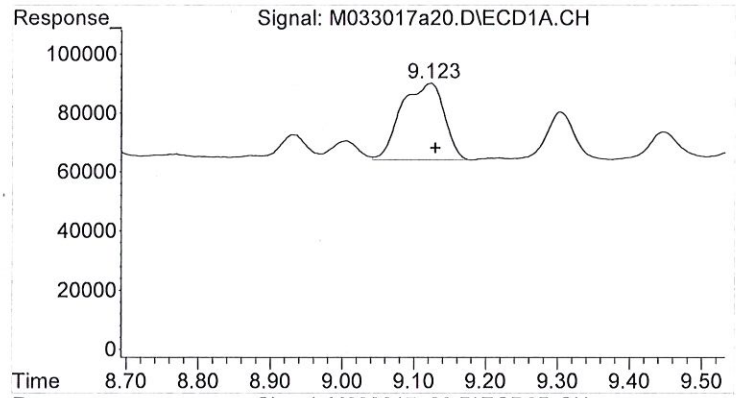

#2 1242-2

R.T.: 8.652 min
Delta R.T.: -0.008 min
Response: 15203
Conc: N.D.



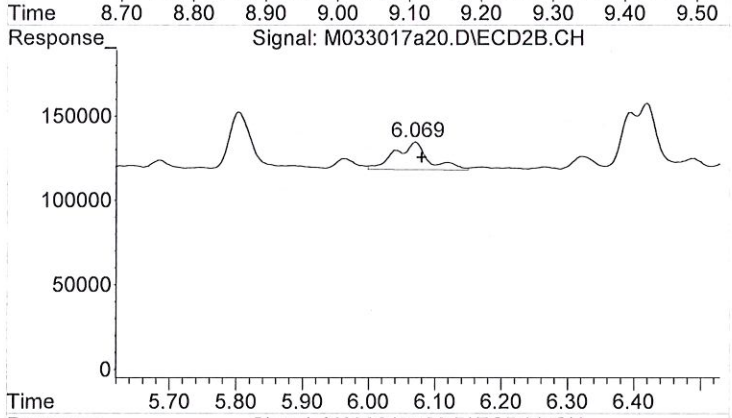

#2 1242-2

R.T.: 5.804 min
Delta R.T.: 0.004 min
Response: 33277
Conc: 26.23 pg/uL



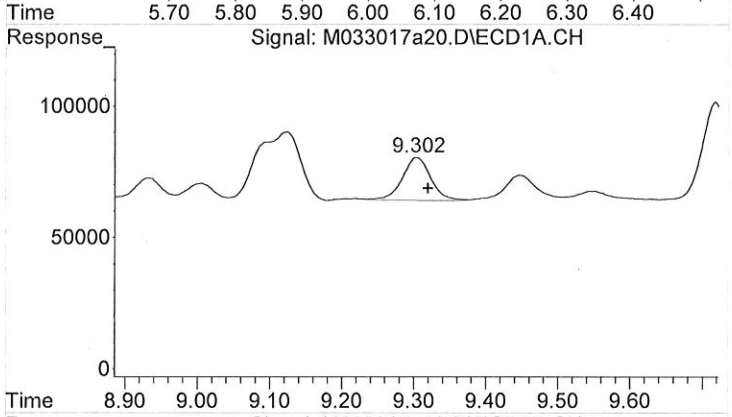

#3 1242-3

R.T.: 9.122 min
Delta R.T.: -0.008 min
Response: 26198
Conc: N.D.



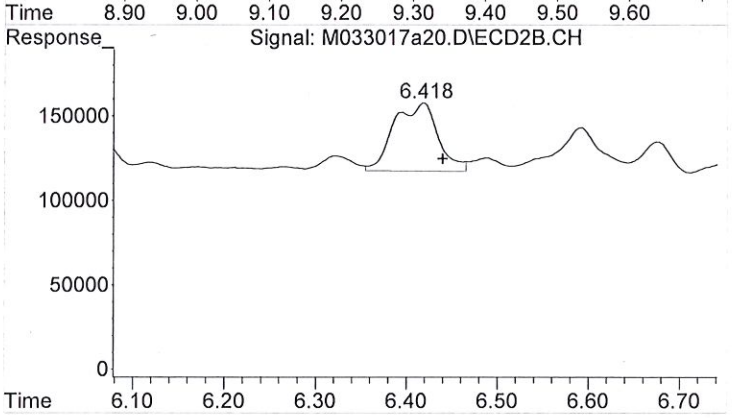

#3 1242-3

R.T.: 6.069 min
Delta R.T.: -0.011 min
Response: 16261
Conc: 26.73 pg/uL



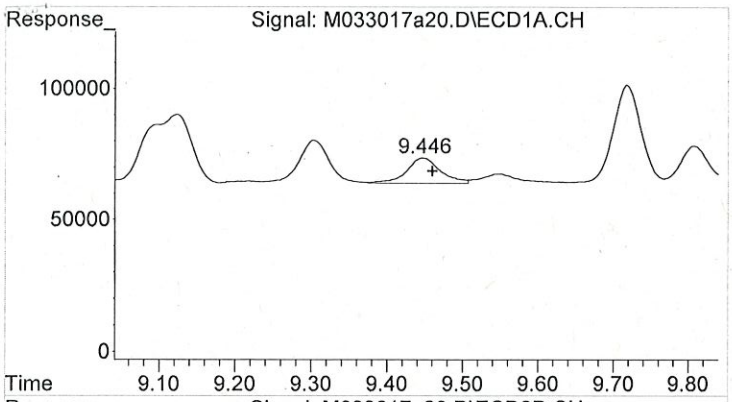

#4 1242-4

R.T.: 9.304 min
Delta R.T.: -0.016 min
Response: 16324
Conc: N.D.



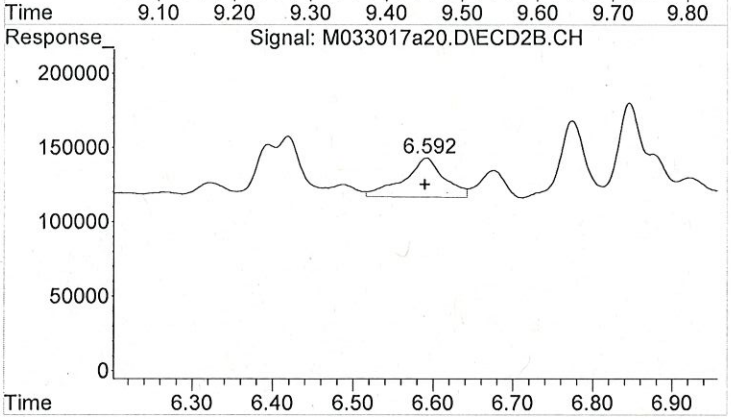

#4 1242-4

R.T.: 6.417 min
Delta R.T.: -0.023 min
Response: 40157
Conc: 27.26 pg/uL




#5 1242-5

R.T.: 9.447 min
Delta R.T.: -0.013 min
Response: 9636
Conc: N.D.




#5 1242-5

R.T.: 6.591 min
Delta R.T.: 0.001 min
Response: 26133
Conc: 29.98 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dw\
Data File : M033017a20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 18:45 pm
Operator : DWOOD
Sample : 17104001
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 18 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:57:35 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1254 -1 | 11.328 | 7.684 | 31677 | 55722 | 21.184 | 41.400 # |
| 2) L1 1254-2 | 11.755 | 8.066 | 6931 | 44510 | 12.976 | 26.159 # |
| 3) L1 1254-3 | 11.850 | 8.472 | 13045 | 19175 | 11.901 | 17.290 # |
| 4) L1 1254-4 | 11.942 | 8.658 | 4390 | 28389 | 14.323 | 15.592 |
| 5) L1 1254-5 | 12.038 | 8.936 | 20073 | 14303 | 8.720 | 17.506 # |
| Sum 1254 -1 | | | 76116 | 162098 | 69.105 | 117.948 |
| Average 1254 -1 | | | | | 13.821 | 23.590 |

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

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dw\
Data File : M033017a20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 18:45 pm
Operator : DWOOD
Sample : 17104001
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 18 (Sig #2) Sample Multiplier: 1

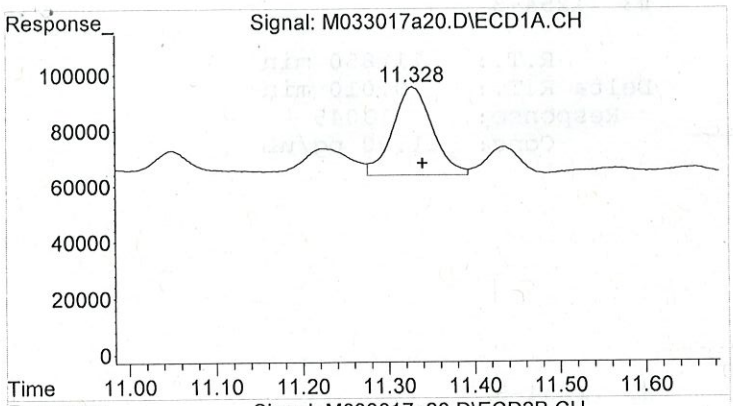
Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:57:35 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1) L1 1254 -1 | 11.328 | 7.684 | 31677 | 55722 | 21.184 | 41.400 | # |
| 2) L1 1254-2 | 11.755 | 8.066 | 6931 | 44510 | 12.976 | 26.159 | # |
| 3) L1 1254-3 | 11.850 | 8.472 | 13045 | 19175 | 11.901 | 17.290 | # |
| 4) L1 1254-4 | 11.942 | 8.658 | 4390 | 28389 | 14.323 | 15.592 | |
| 5) L1 1254-5 | 12.038 | 8.936 | 20073 | 14303 | 8.720 | 17.506 | # |
| Sum 1254 -1 | | | 76116 | 162098 | 69.105 m | 117.948 | m |
| Average 1254 -1 | | | | | 13.821 | 23.590 | |
| | | | | | <25 | <25 | |

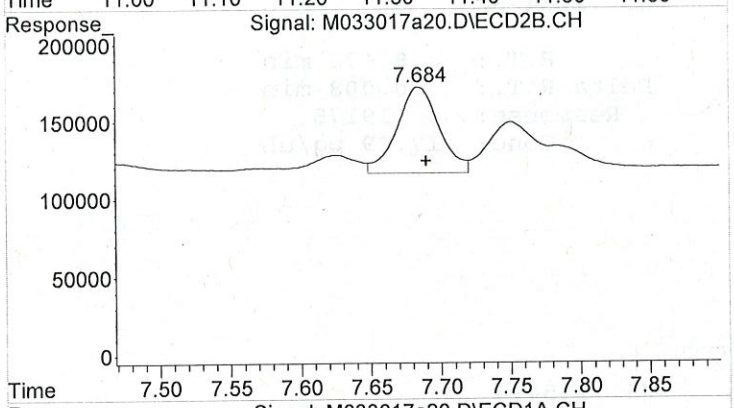
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

mw
3/31/17



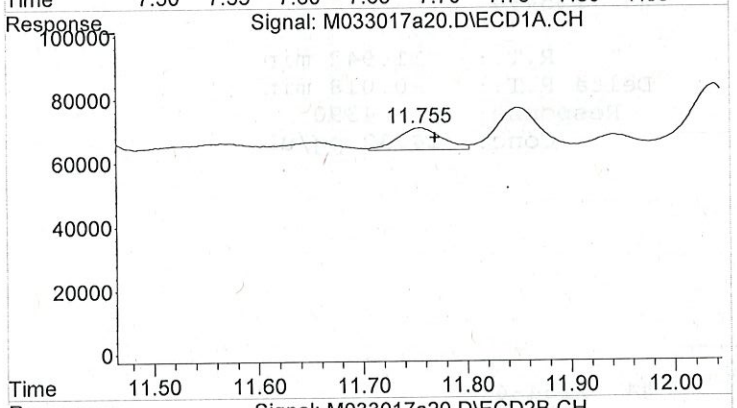

#1 1254 -1

R.T.: 11.328 min
Delta R.T.: -0.012 min
Response: 31677
Conc: 21.18 pg/uL



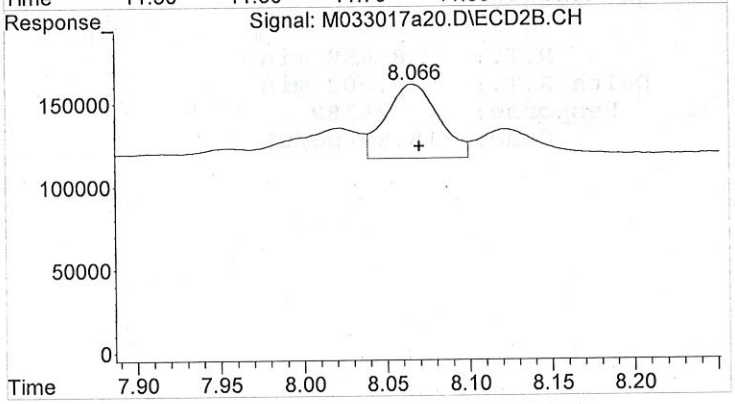

#1 1254 -1

R.T.: 7.684 min
Delta R.T.: -0.006 min
Response: 55722
Conc: 41.40 pg/uL



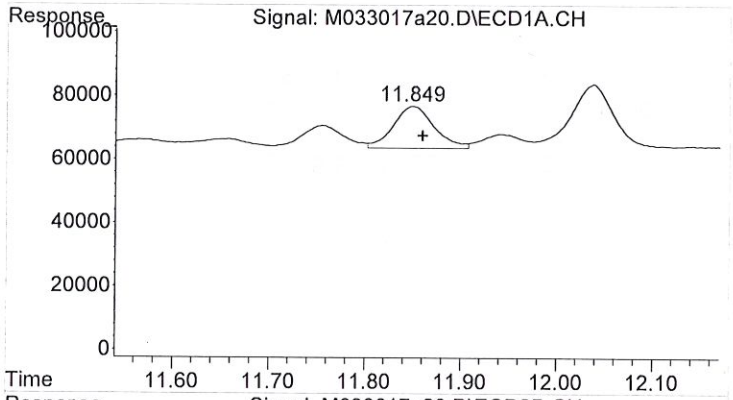

#2 1254-2

R.T.: 11.755 min
Delta R.T.: -0.015 min
Response: 6931
Conc: 12.98 pg/uL



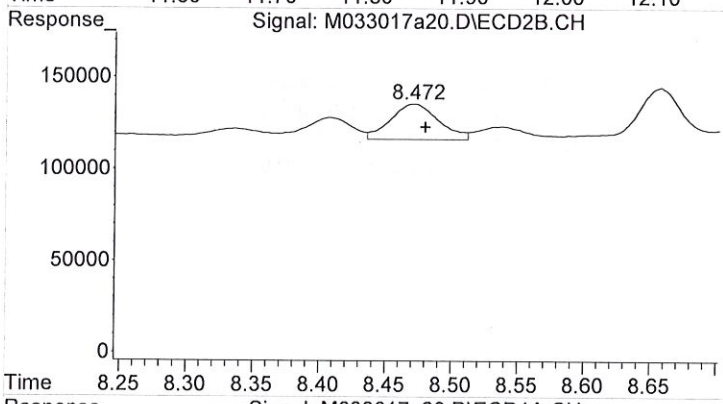

#2 1254-2

R.T.: 8.066 min
Delta R.T.: -0.004 min
Response: 44510
Conc: 26.16 pg/uL



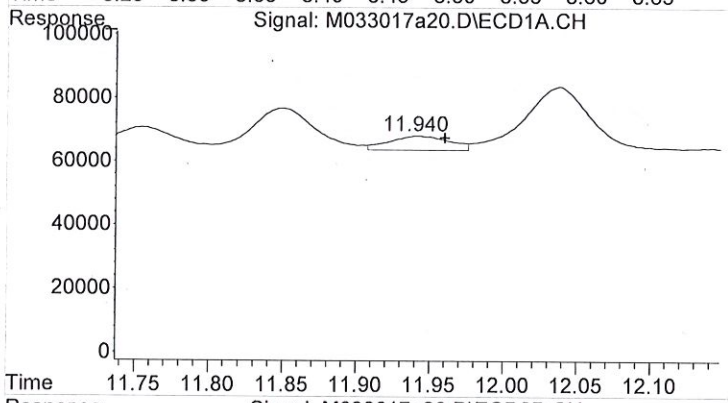

#3 1254-3

R.T.: 11.850 min
Delta R.T.: -0.010 min
Response: 13045
Conc: 11.90 pg/uL



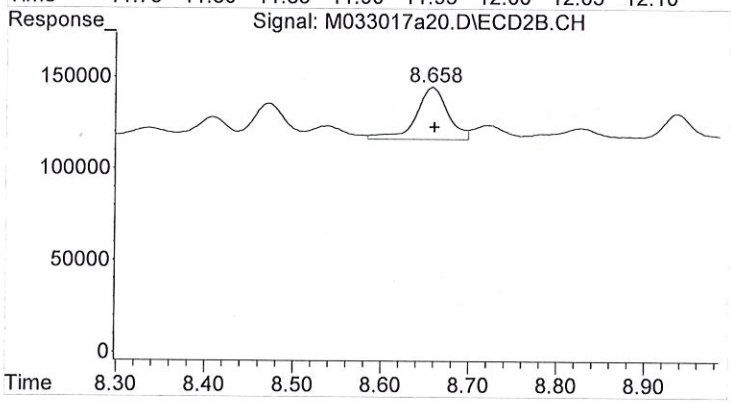

#3 1254-3

R.T.: 8.472 min
Delta R.T.: -0.008 min
Response: 19175
Conc: 17.29 pg/uL



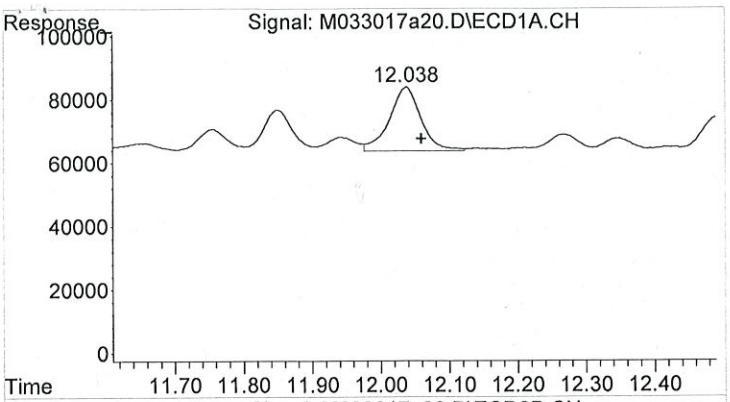

#4 1254-4

R.T.: 11.942 min
Delta R.T.: -0.018 min
Response: 4390
Conc: 14.32 pg/uL



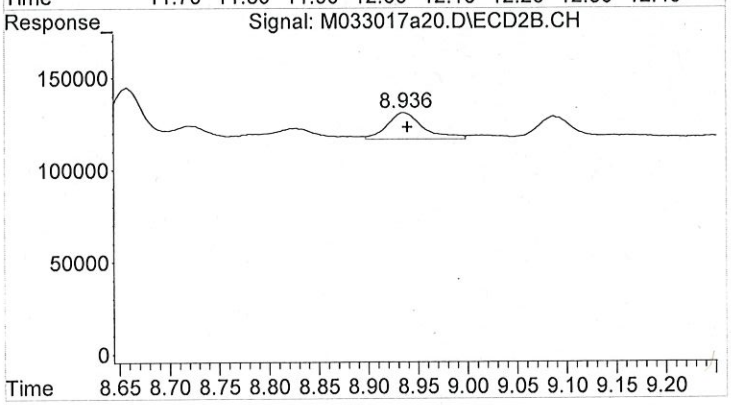

#4 1254-4

R.T.: 8.658 min
Delta R.T.: -0.002 min
Response: 28389
Conc: 15.59 pg/uL




#5 1254-5

R.T.: 12.038 min
Delta R.T.: -0.022 min
Response: 20073
Conc: 8.72 pg/uL




#5 1254-5

R.T.: 8.936 min
Delta R.T.: -0.004 min
Response: 14303
Conc: 17.51 pg/uL

# PCB Sample Results Summary

Sample.....: 17104002
Data File....: M032817a09.D
Project.....: OCE-009C
Matrix.....: ~~Wipe~~ PUF
Analyzed.....: 03/28/2017 20:12
Type.....: 0

Date Prepped...: 3/28/2017
ICAL Date.....: 03/21/2017
Prep Method....: 3541
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: 9

Instrument.....: Minerva
Amount Extracted.: 1 ~~wipe~~ PW PUF
Percent Solids...: NA
Final Volume.....: 2 mL
Dilution.....: 1x D0

Additional Info..: Sky Valley PCB PUF 2mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M032117PCB1260.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\M032817a09.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) | 6.98 | 6.99 | 2187290 | | 100 | 83 | 83 | %Rec | |
| 12 | 2.5 | 250 | dcb | 17.77 | 17.79 | 1330640 | | 100 | 90 | 90 | %Rec | |
| 14 | 2.5 | 250 | tmx (1) #2 | 4.80 | 4.80 | 4064620 | | 100 | 99 | 99 | %Rec | |
| 25 | 2.5 | 250 | dcb #2 | 13.28 | 13.28 | 2327310 | | 100 | 98 | 98 | %Rec | |
| 2 | 25 | 1000 | 1016 -1 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 3 | 25 | 1000 | 1016-2 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 4 | 25 | 1000 | 1016-3 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 5 | 25 | 1000 | 1016-4 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 6 | 25 | 1000 | 1016-5 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 7 | 25 | 1000 | 1260-1 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 8 | 25 | 1000 | 1260-2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 9 | 25 | 1000 | 1260-3 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 10 | 25 | 1000 | 1260-4 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 11 | 25 | 1000 | 1260-5 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 15 | 25 | 1000 | 1016 -1 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 16 | 25 | 1000 | 1016-2 #2 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 17 | 25 | 1000 | 1016-3 #2 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 18 | 25 | 1000 | 1016-4 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 19 | 25 | 1000 | 1016-5 #2 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 20 | 25 | 1000 | 1260-1 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 21 | 25 | 1000 | 1260-2 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 22 | 25 | 1000 | 1260-3 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 23 | 25 | 1000 | 1260-4 #2 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 24 | 25 | 1000 | 1260-5 #2 | - | - | - | | - | - | 0.050 | ug (RL) | U |

| CAS# | Name | Avg | Unit | n | %RSD | Column RPD[2] |
|---|---|---|---|---|---|---|
| 12674112 | 1016 Column 1 | 0.050 | ug (RL) | 0 | NA | Results will be reported from Column 1 |
| 12674112 | 1016 Column 2 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 1 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 2 | 0.050 | ug (RL) | 0 | NA | |

[1]'Amount' units are pg or pg/uL on column. [2]RPD (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 2017 DATA\M032817PCBDW\
Data File : M032817a09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 8:12 pm
Operator : DWOOD
Sample : 17104002
Misc : Sky Valley PCB PUF 2mL fv
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: Mar 30 16:26:52 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.982 | 4.800 | 2187292 | 4064621 | 82.544 | 98.659 |
| 12) S2 dcb | 17.772 | 13.282 | 1330643 | 2327312 | 90.321 | 97.518 |
| 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. 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 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8) L2 1260-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. 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. | 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.

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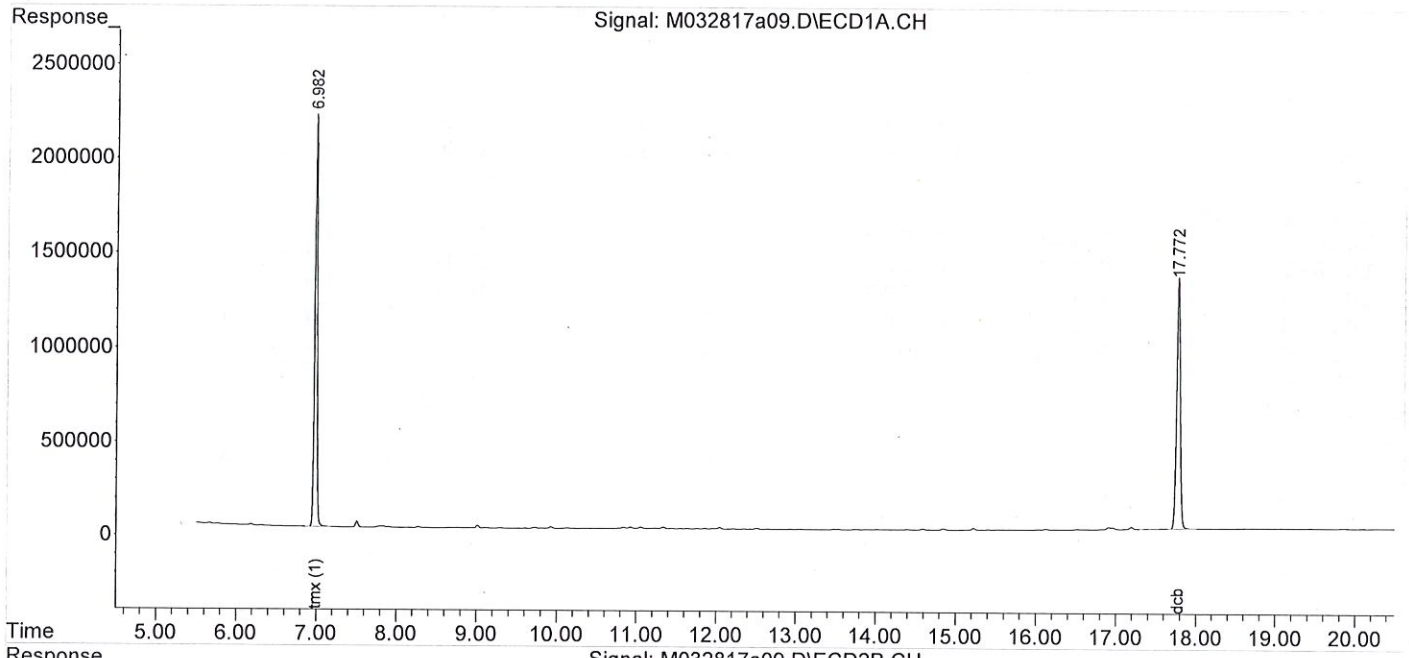
3/31/17

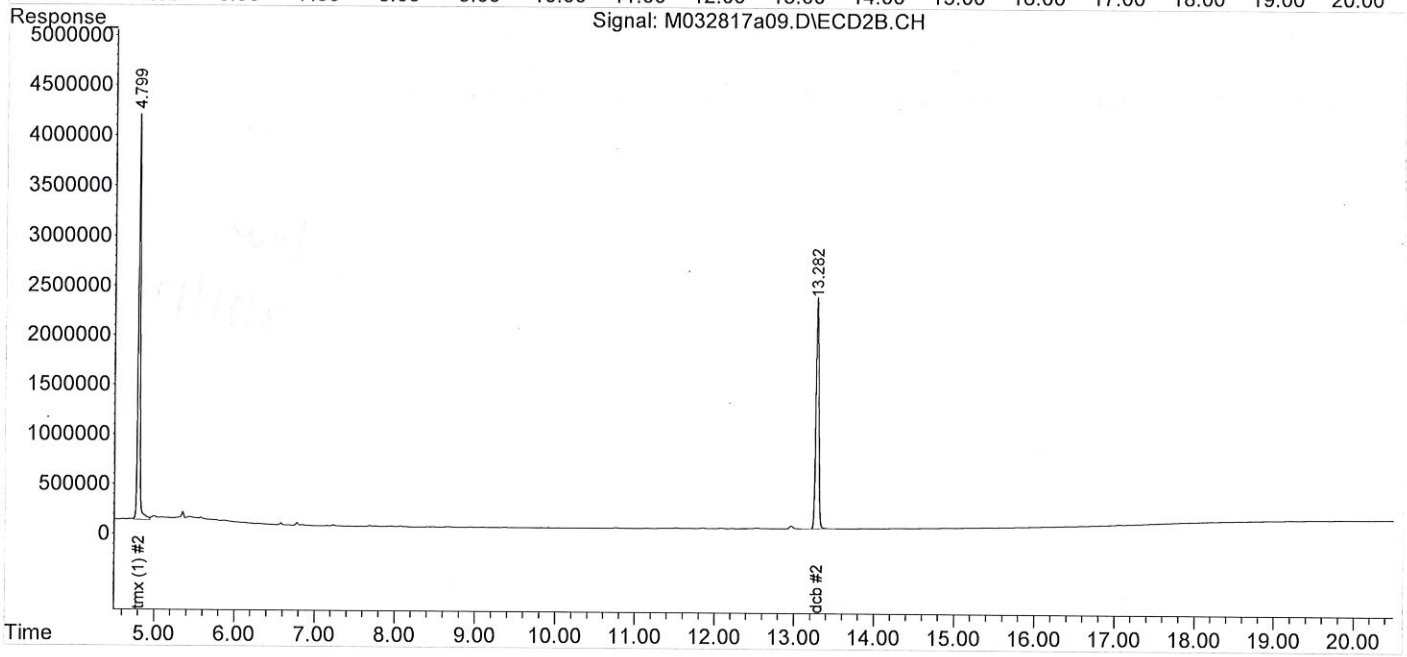
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 8:12 pm
Operator : DWOOD
Sample : 17104002
Misc : Sky Valley PCB PUF 2mL fv
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: Mar 30 16:26:52 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 20:12 pm
Operator : DWOOD
Sample : 17104002
Misc : PCB PUF IDOC 2mL fv
ALS Vial : 0 (Sig #1); 9 (Sig #2) Sample Multiplier: 1

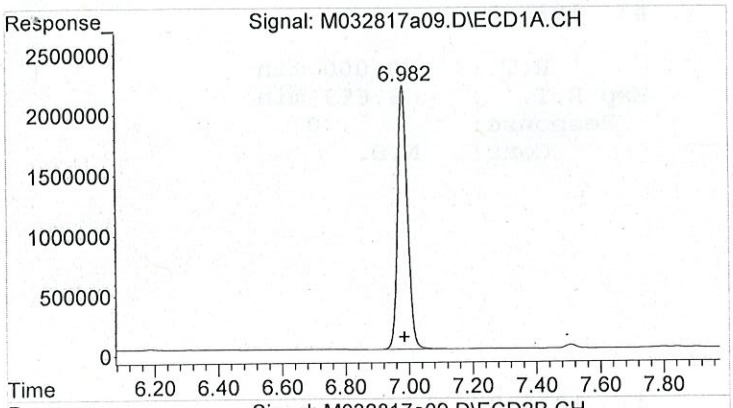
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 08:36:14 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.982 | 4.800 | 2187292 | 4064621 | 82.544 | 98.659 |
| 12) S2 dcb | 17.772 | 13.282 | 1330643 | 2327312 | 90.321 | 97.518 |
| Target Compounds | | | | | | |
| 2) L1 1016 -1 | 0.000 | 5.351 | 0 | ~~95618~~ | N.D. | 113.964 # |
| 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 | 6.575 | 0 | ~~19023~~ | N.D. | 14.925 # |
| 6) L1 1016-5 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| Sum 1016 -1 | | | 0 | 114641 | N.D. | 128.888 |
| Average 1016 -1 | | | | | 0.000 | 64.444 |
| 7) L2 1260-1 | 0.000 | 8.940 | 0 | ~~4568~~ | N.D. | N.D. |
| 8) L2 1260-2 | 0.000 | 9.373 | 0 | ~~3976~~ | N.D. | 0.478 # |
| 9) L2 1260-3 | 0.000 | 9.821 | 0 | ~~3110~~ | N.D. | 3.156 # |
| 10) L2 1260-4 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 11) L2 1260-5 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| Sum 1260-1 | | | 0 | 7086 | N.D. | 3.160 |
| Average 1260-1 | | | | | 0.000 | 1.580 |

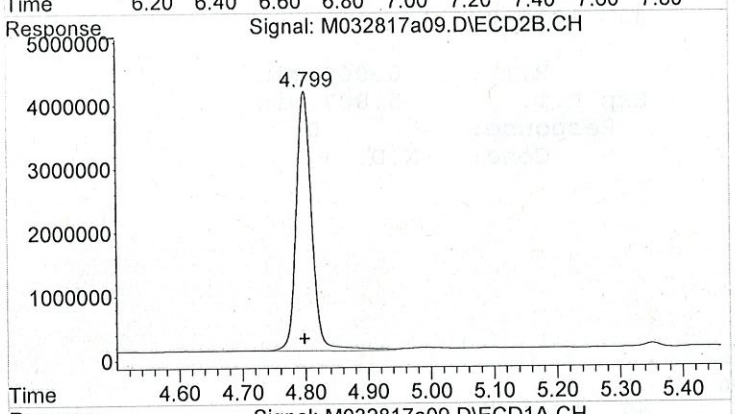
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW
3/30/17



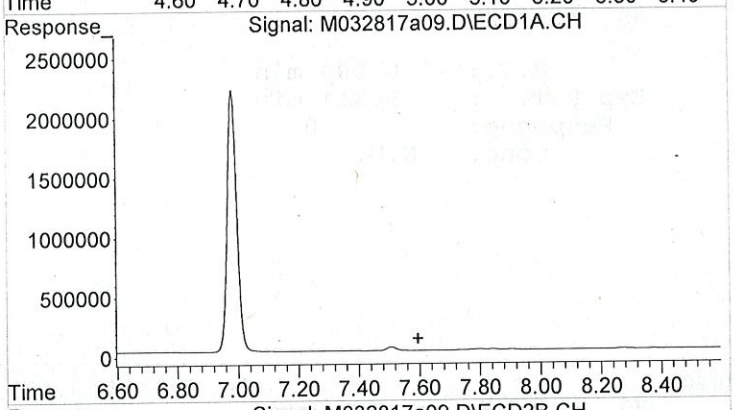

#1 tmx (1)

R.T.: 6.982 min
Delta R.T.: -0.004 min
Response: 2187292
Conc: 82.54 pg/uL



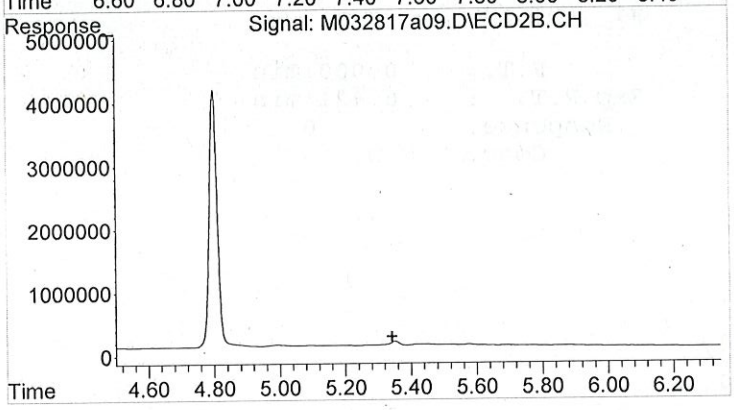

#1 tmx (1)

R.T.: 4.800 min
Delta R.T.: 0.000 min
Response: 4064621
Conc: 98.66 pg/uL



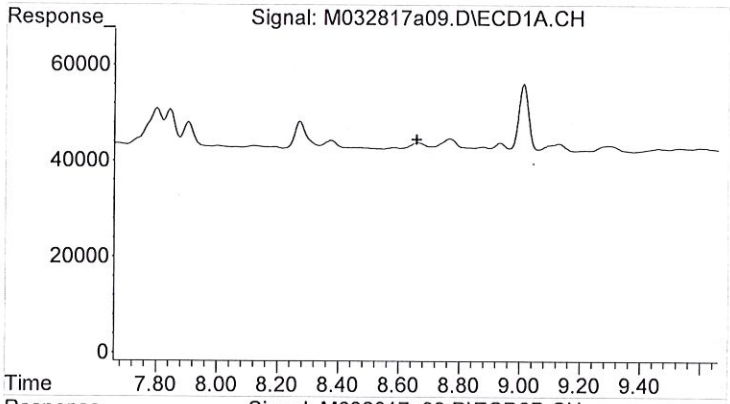

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



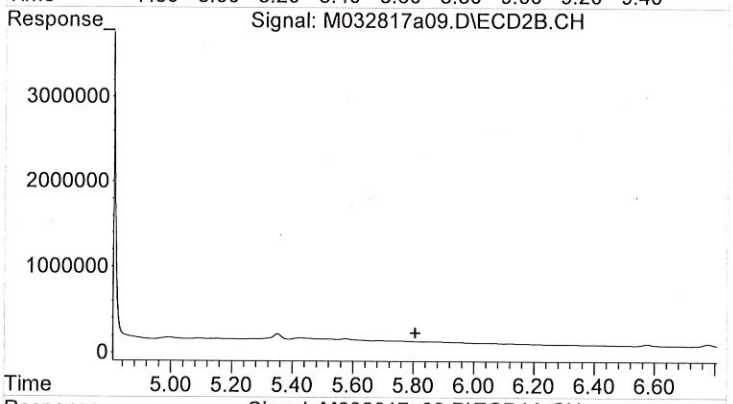

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



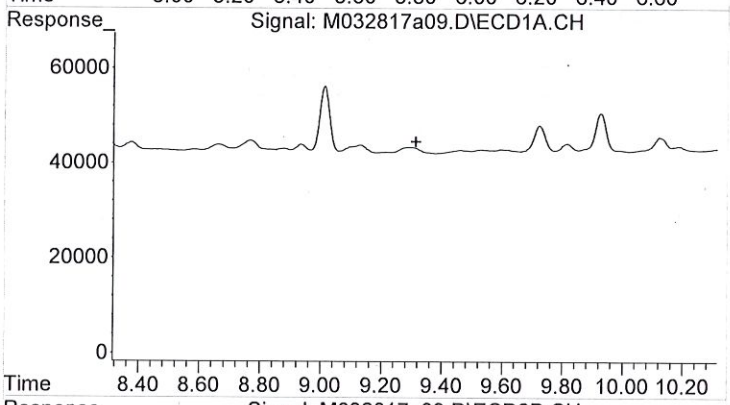

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



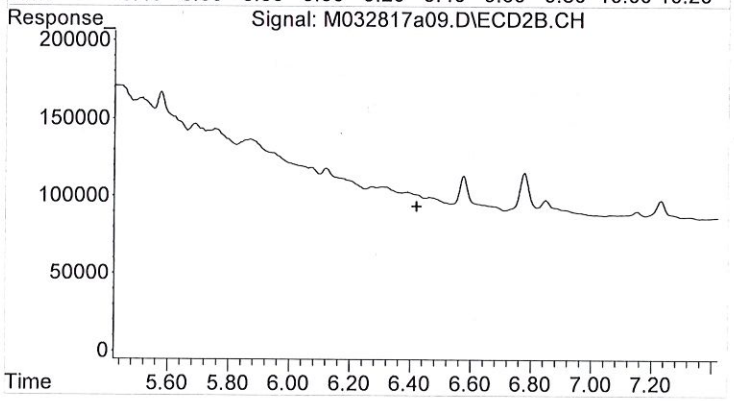

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



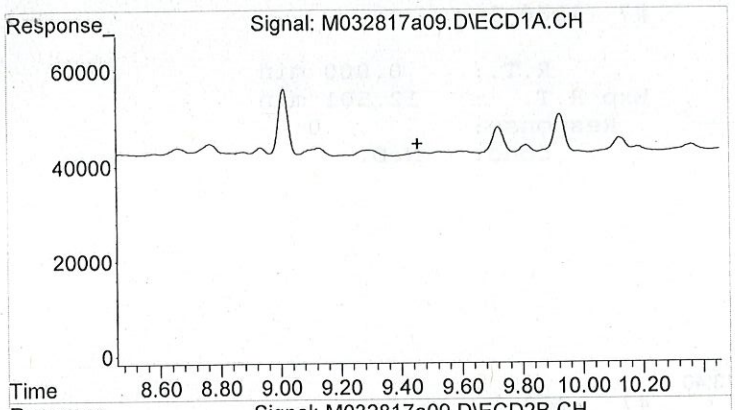

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



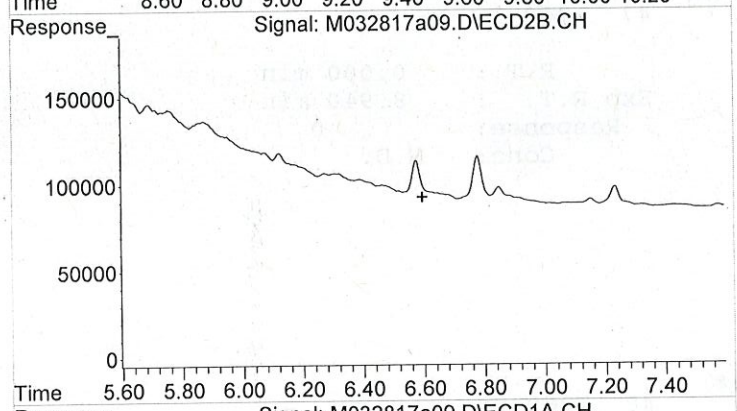

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



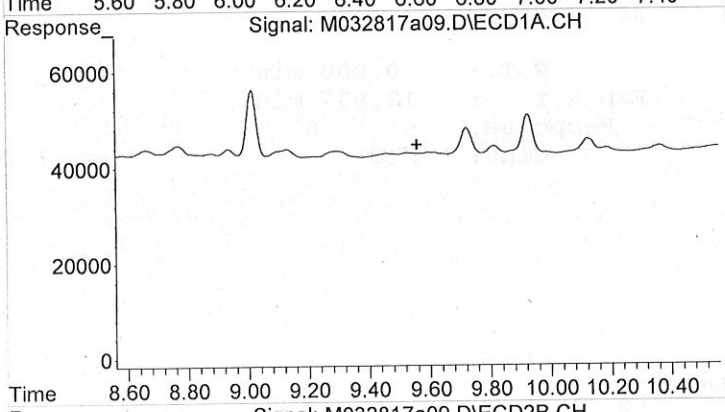

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



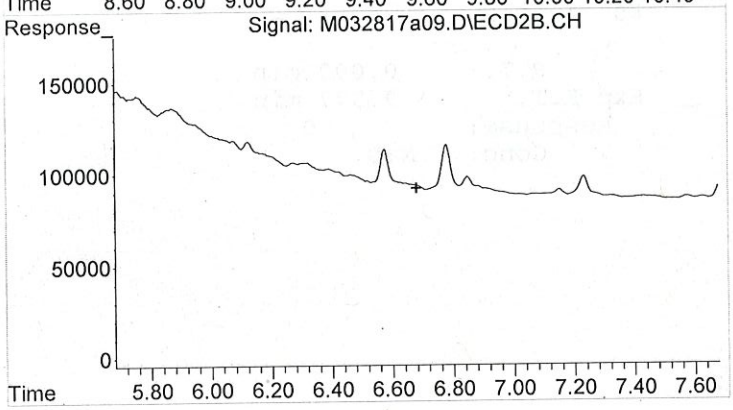

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



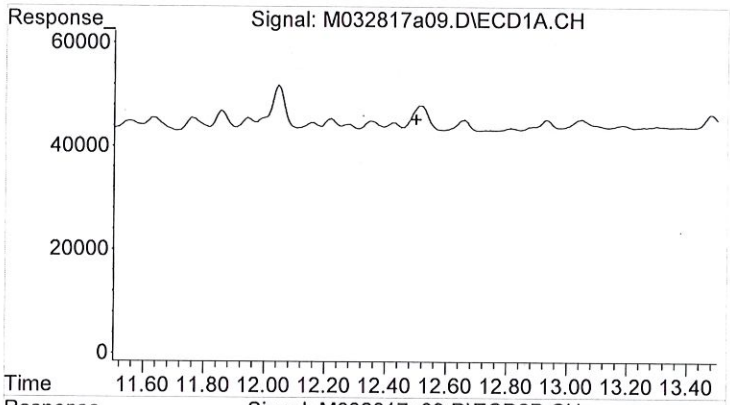

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



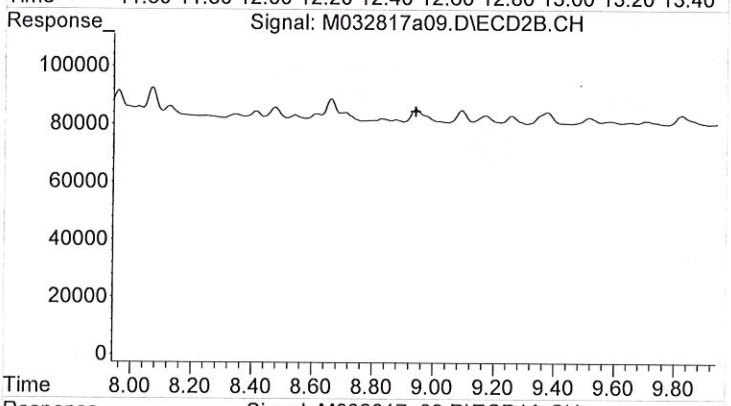

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



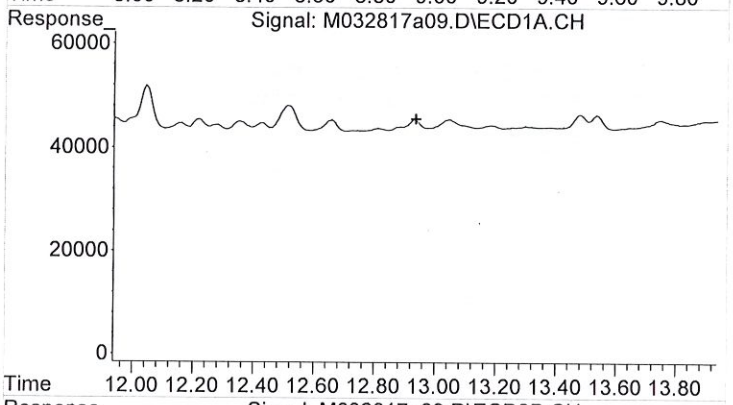

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.501 min
Response: 0
Conc: N.D.



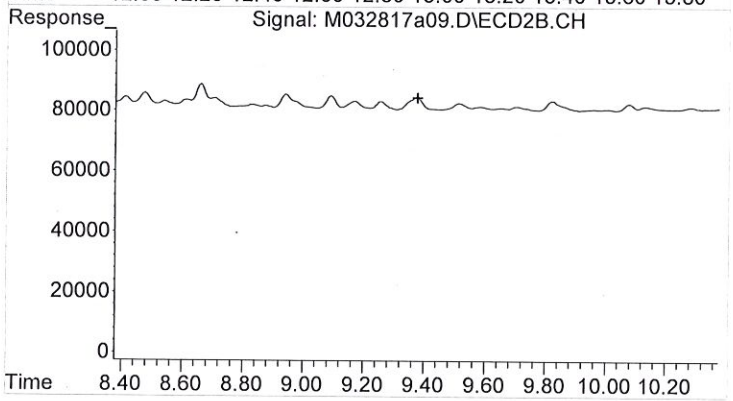

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 8.940 min
Response: 0
Conc: N.D.



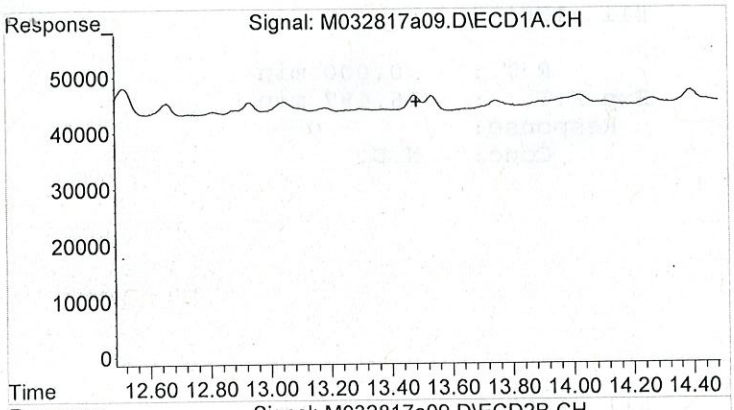

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 12.937 min
Response: 0
Conc: N.D.



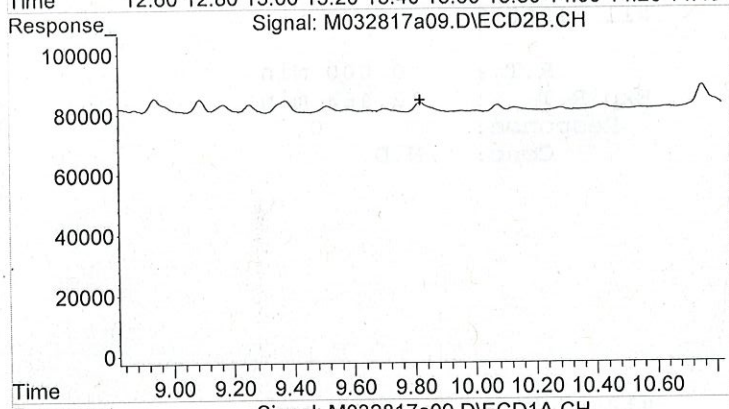

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.377 min
Response: 0
Conc: N.D.



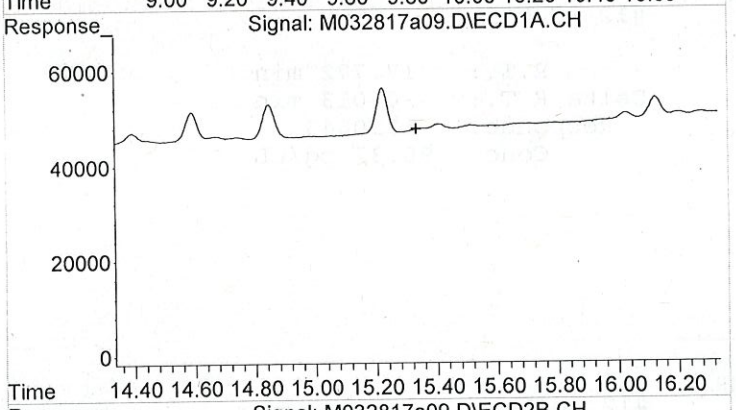

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.486 min
Response: 0
Conc: N.D.



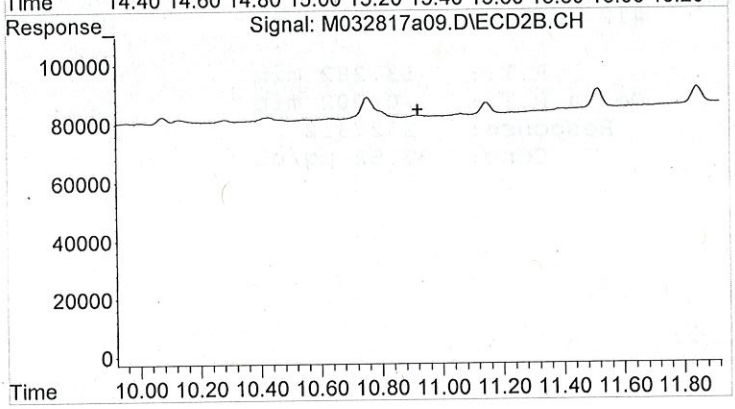

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 9.821 min
Response: 0
Conc: N.D.



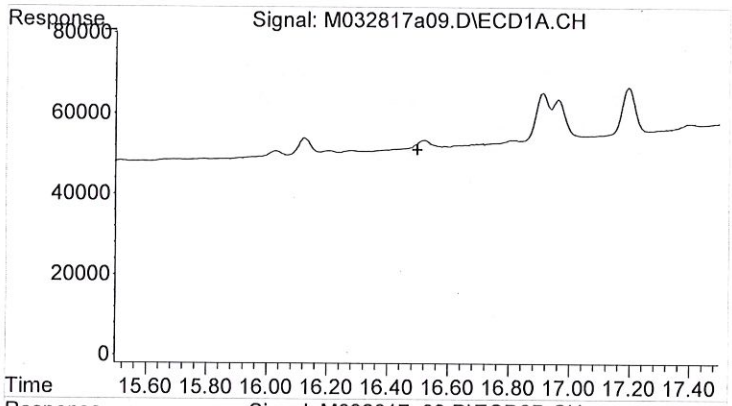

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.335 min
Response: 0
Conc: N.D.



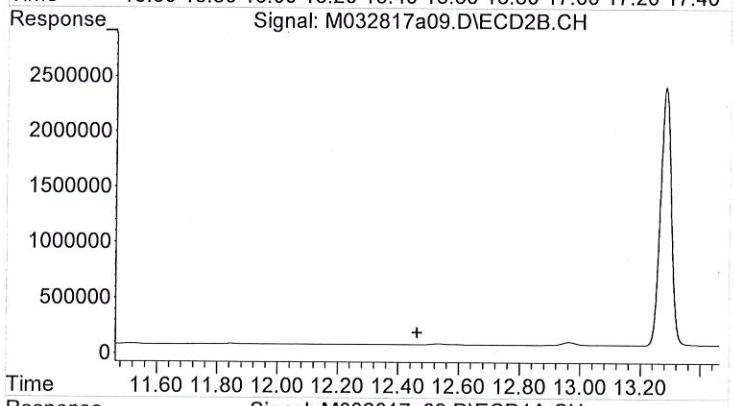

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 10.922 min
Response: 0
Conc: N.D.



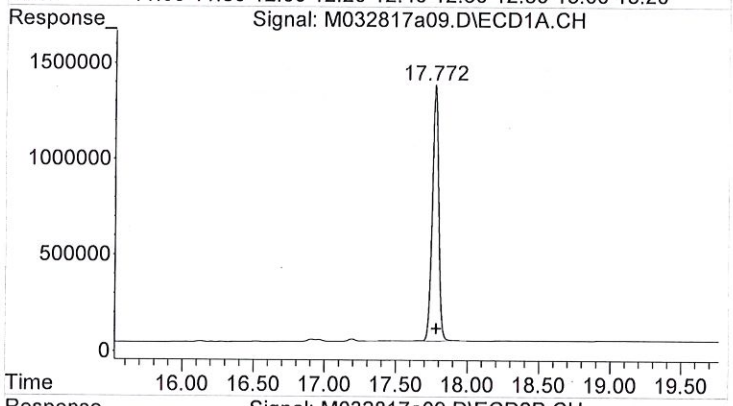

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



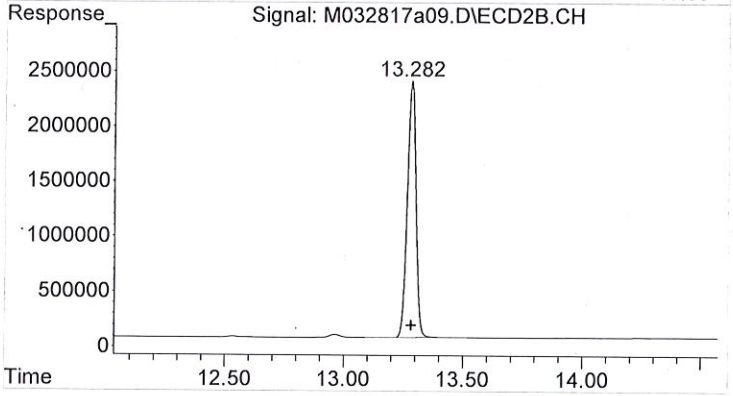

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.




#12 dcb

R.T.: 17.772 min
Delta R.T.: -0.013 min
Response: 1330643
Conc: 90.32 pg/uL




#12 dcb

R.T.: 13.282 min
Delta R.T.: -0.002 min
Response: 2327312
Conc: 97.52 pg/uL

# PCB Sample Results Summary



Sample.....: 17104003
Data File....: M032817a10.D
Project.....: OCE-009C
Matrix.....: ~~42 Wipe~~ DW PUF
Analyzed.....: 03/28/2017 20:37
Type.....: 0

Date Prepped...: 3/28/2017
ICAL Date.....: 03/21/2017
Prep Method....: 3541
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: 10

Instrument.....: Minerva
Amount Extracted.: 1 ~~wipe~~ DW PUF
Percent Solids...: NA
Final Volume.....: 2 mL
Dilution.....: 1x D0

Additional Info..: Sky Valley PCB PUF 2mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M032117PCB1260.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\M032817a10.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) | 6.98 | 6.99 | 2065740 | | 100 | 78 | 78 %Rec | |
| 12 | 2.5 | 250 | dcb | 17.77 | 17.79 | 1224460 | | 100 | 83 | 83 %Rec | |
| 14 | 2.5 | 250 | tmx (1) #2 | 4.80 | 4.80 | 3633760 | | 100 | 88 | 88 %Rec | |
| 25 | 2.5 | 250 | dcb #2 | 13.28 | 13.28 | 2275440 | | 100 | 95 | 95 %Rec | |
| 2 | 25 | 1000 | 1016 -1 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 3 | 25 | 1000 | 1016-2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 4 | 25 | 1000 | 1016-3 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 5 | 25 | 1000 | 1016-4 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 6 | 25 | 1000 | 1016-5 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 7 | 25 | 1000 | 1260-1 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 8 | 25 | 1000 | 1260-2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 9 | 25 | 1000 | 1260-3 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 10 | 25 | 1000 | 1260-4 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 11 | 25 | 1000 | 1260-5 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 15 | 25 | 1000 | 1016 -1 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 16 | 25 | 1000 | 1016-2 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 17 | 25 | 1000 | 1016-3 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 18 | 25 | 1000 | 1016-4 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 19 | 25 | 1000 | 1016-5 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 20 | 25 | 1000 | 1260-1 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 21 | 25 | 1000 | 1260-2 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 22 | 25 | 1000 | 1260-3 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 23 | 25 | 1000 | 1260-4 #2 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 24 | 25 | 1000 | 1260-5 #2 | - | - | - | | - | - | 0.050 ug (RL) | U |

| CAS# | Name | Avg | Unit | n | %RSD | Column RPD[2] |
|---|---|---|---|---|---|---|
| 12674112 | 1016 Column 1 | 0.050 | ug (RL) | 0 | NA | Results will be reported from Column 1 |
| 12674112 | 1016 Column 2 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 1 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 2 | 0.050 | ug (RL) | 0 | NA | |

[1]'Amount' units are pg or pg/uL on column. [2]RPD (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 2017 DATA\M032817PCBDW\
Data File : M032817a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 8:37 pm
Operator : DWOOD
Sample : 17104003
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 30 16:27:49 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.982 | 4.800 | 2065738 | 3633755 | 77.929 | 88.107 |
| 12) S2 dcb | 17.772 | 13.281 | 1224461 | 2275437 | 83.013 | 95.340 |
| 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. d | N.D. 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. d | N.D. d |
| 8) L2 1260-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. 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. | 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.

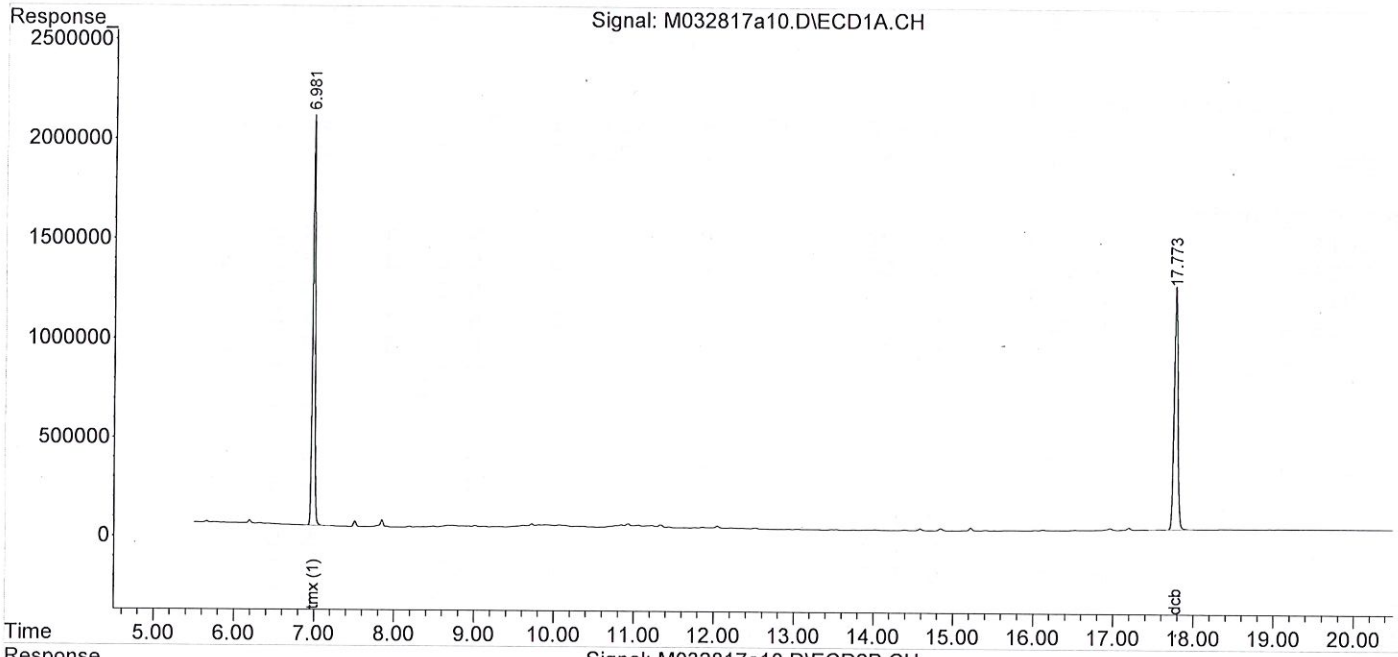
lw
3/31/17

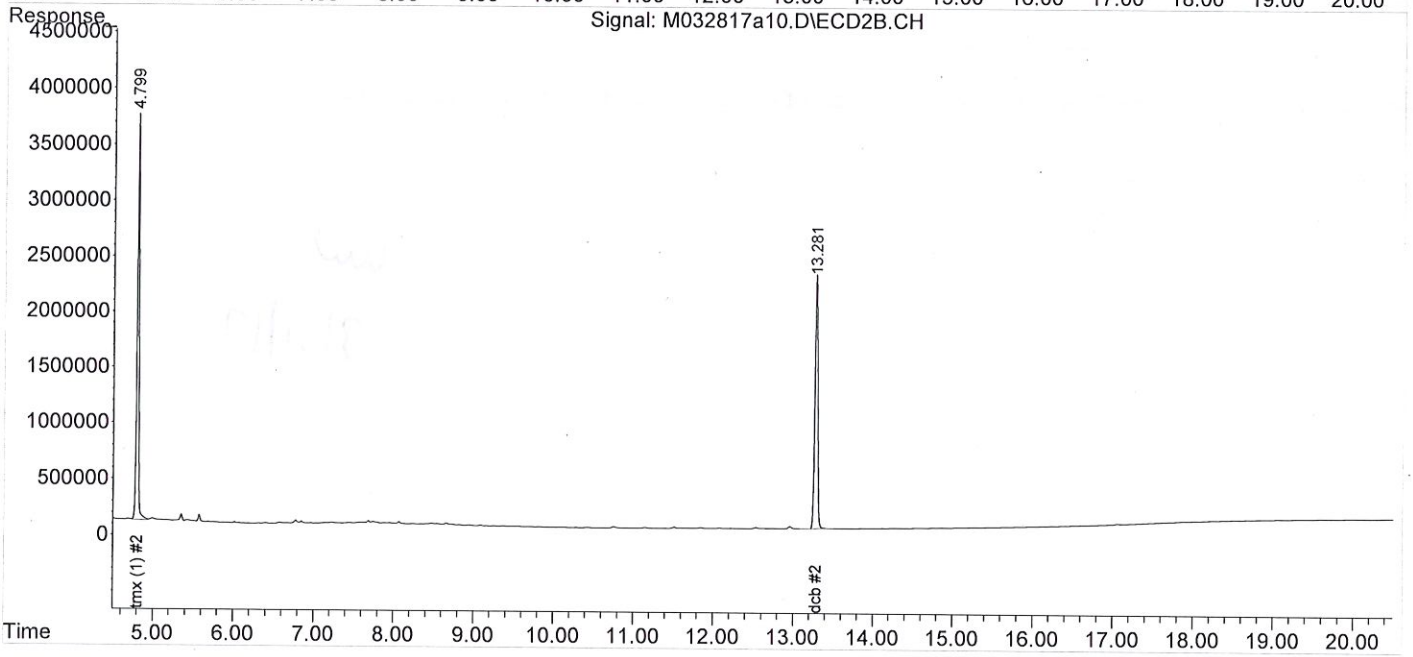
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 8:37 pm
Operator : DWOOD
Sample : 17104003
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 30 16:27:49 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 20:37 pm
Operator : DWOOD
Sample : 17104003
Misc : PCB PUF IDOC 2mL fv
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

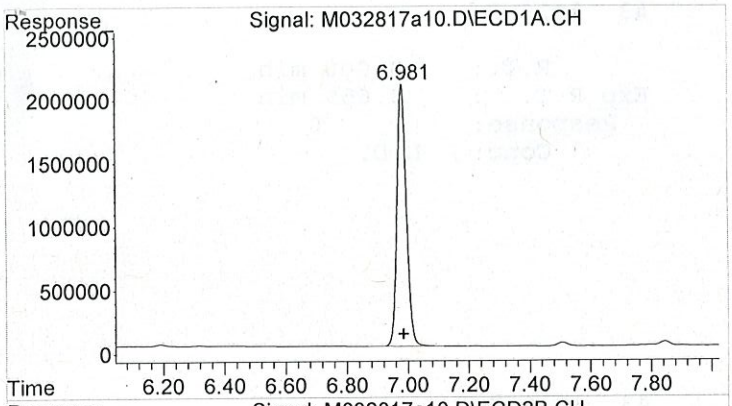
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 08:36:22 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.982 | 4.800 | 2065738 | 3633755 | 77.929 | 88.107 |
| 12) S2 dcb | 17.772 | 13.281 | 1224461 | 2275437 | 83.013 | 95.340 |
| Target Compounds | | | | | | |
| 2) L1 1016 -1 | 0.000 | 5.351 | 0 | W ~~61502~~ | N.D. | 71.384 # |
| 3) L1 1016-2 | 8.671 | 0.000 | 8469 | 0 | ~~2.511~~ | N.D. # |
| 4) L1 1016-3 | 0.000 | 6.398 | 0 | W ~~7047~~ | N.D. | 2.668 # |
| 5) L1 1016-4 | 0.000 | 6.574 | 0 | W ~~14169~~ | N.D. | 10.543 # |
| 6) L1 1016-5 | 0.000 | 6.683 | 0 | W ~~8929~~ | N.D. | 9.749 # |
| Sum 1016 -1 | | | 8469 | 91647 | 2.511 | 94.344 |
| Average 1016 -1 | | | | | 2.511 | 23.586 |
| 7) L2 1260-1 | 0.000 | 8.939 | 0 | W ~~7223~~ | N.D. | 1.003 # |
| 8) L2 1260-2 | 0.000 | 9.376 | 0 | W ~~3161~~ | N.D. | 0.162 # |
| 9) L2 1260-3 | 0.000 | 9.819 | 0 | W ~~3877~~ | N.D. | 3.041 # |
| 10) L2 1260-4 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 11) L2 1260-5 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| Sum 1260-1 | | | 0 | 13261 | N.D. | 4.206 |
| Average 1260-1 | | | | | 0.000 | 1.402 |

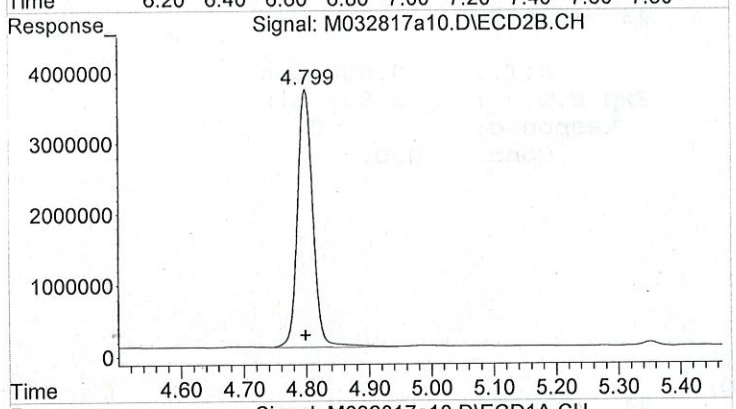
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

3/30/17



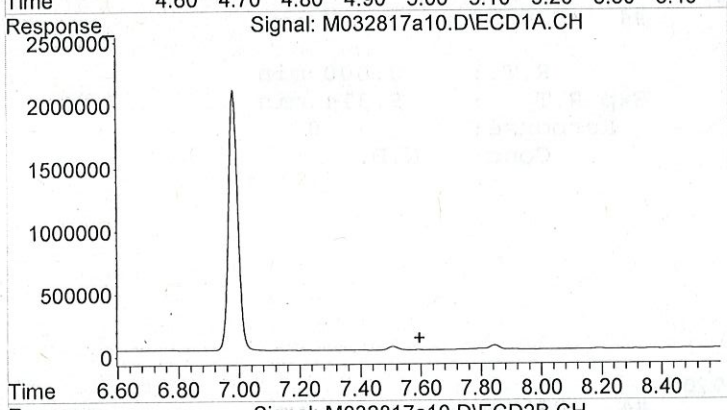

#1 tmx (1)

R.T.: 6.982 min
Delta R.T.: -0.004 min
Response: 2065738
Conc: 77.93 pg/uL



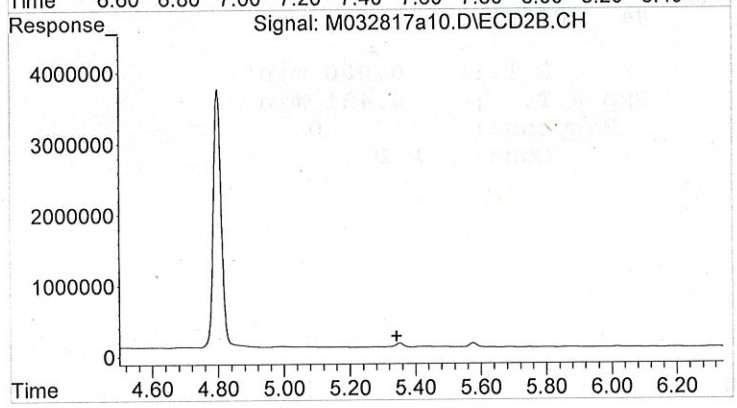

#1 tmx (1)

R.T.: 4.800 min
Delta R.T.: 0.000 min
Response: 3633755
Conc: 88.11 pg/uL



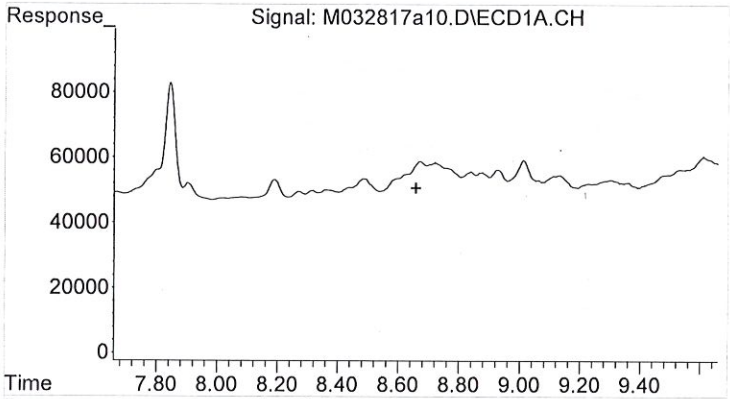

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



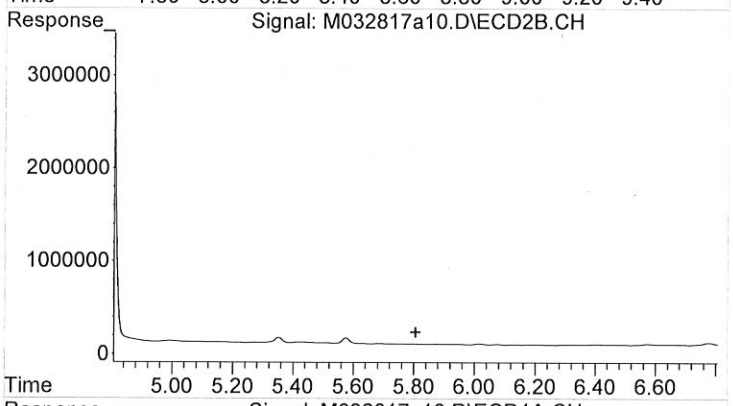

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



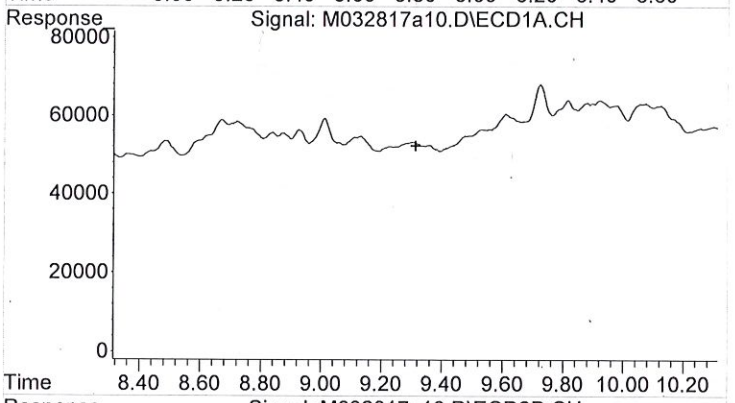

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



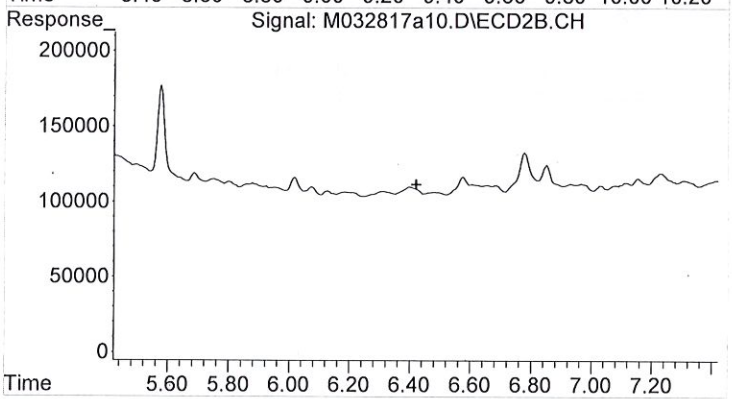

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



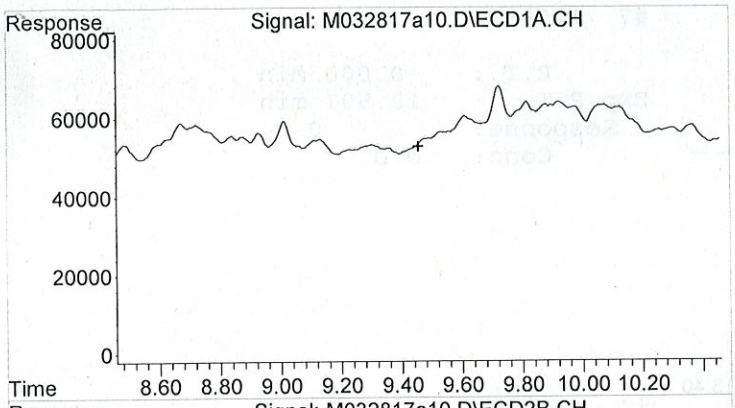

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



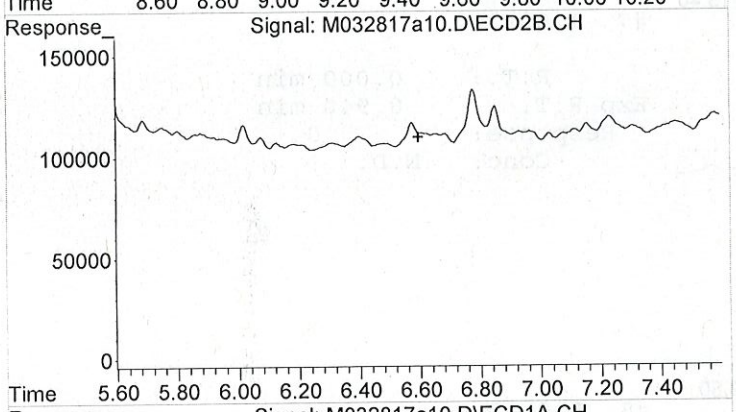

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



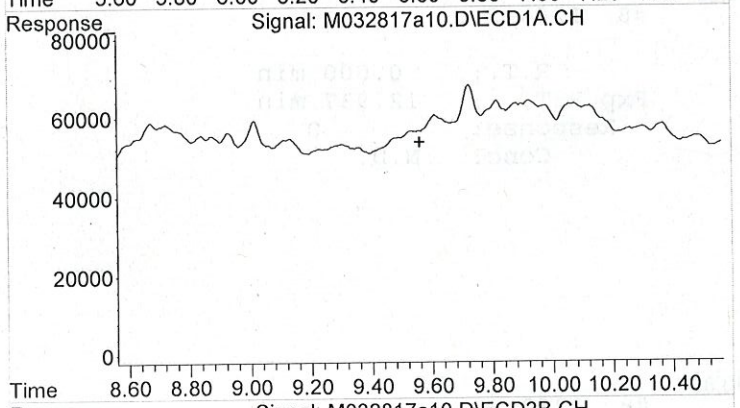

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



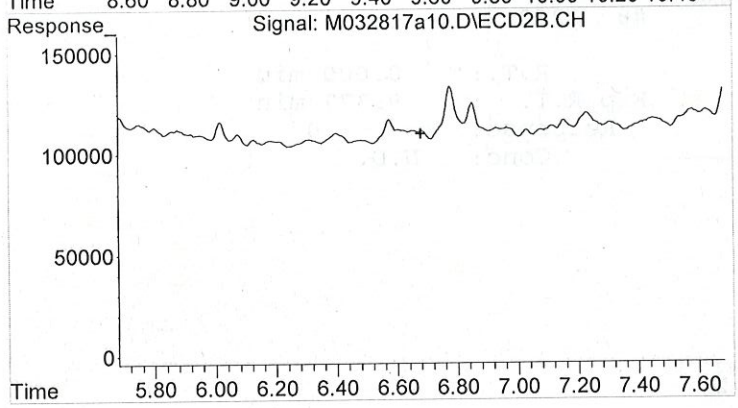

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



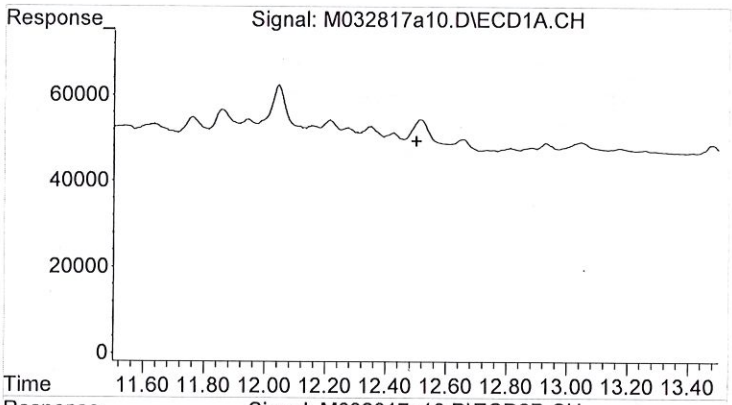

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



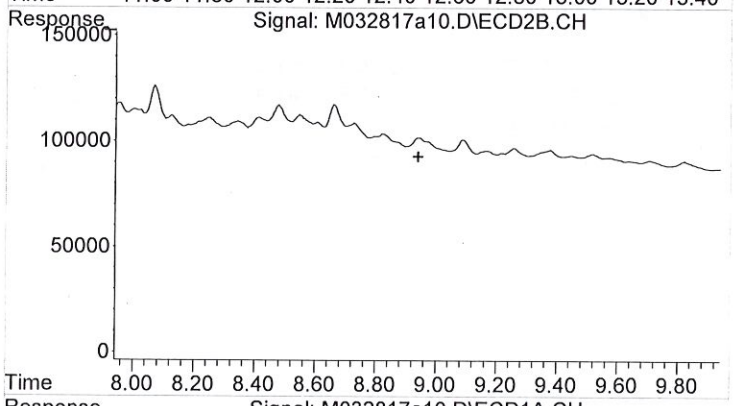

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



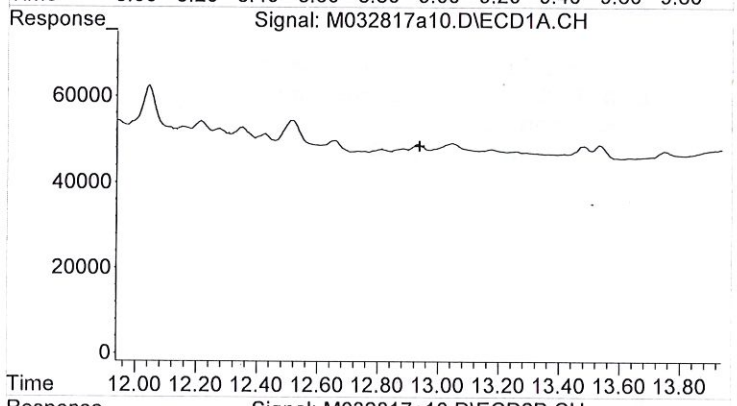

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.501 min
Response: 0
Conc: N.D.



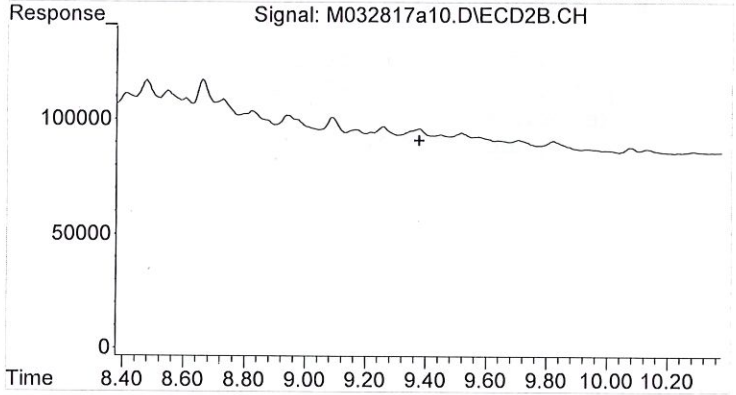

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 8.940 min
Response: 0
Conc: N.D.



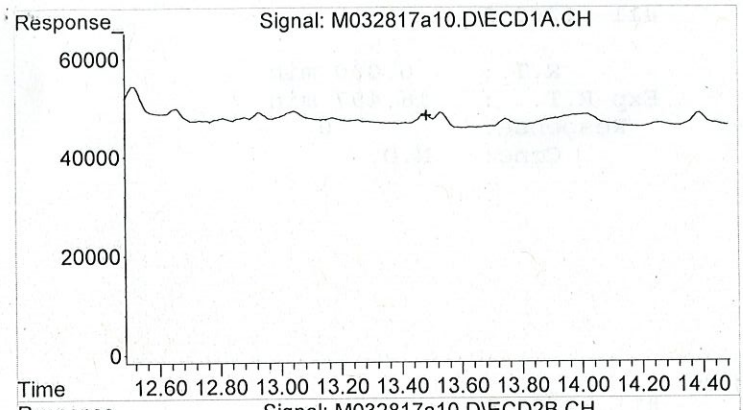

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 12.937 min
Response: 0
Conc: N.D.



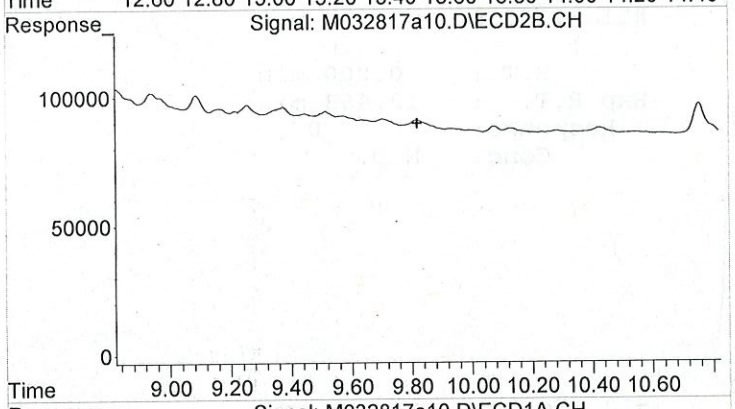

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.377 min
Response: 0
Conc: N.D.



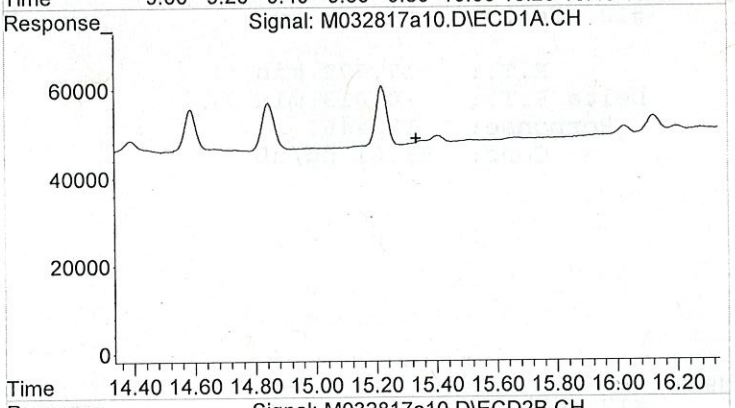

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.486 min
Response: 0
Conc: N.D.



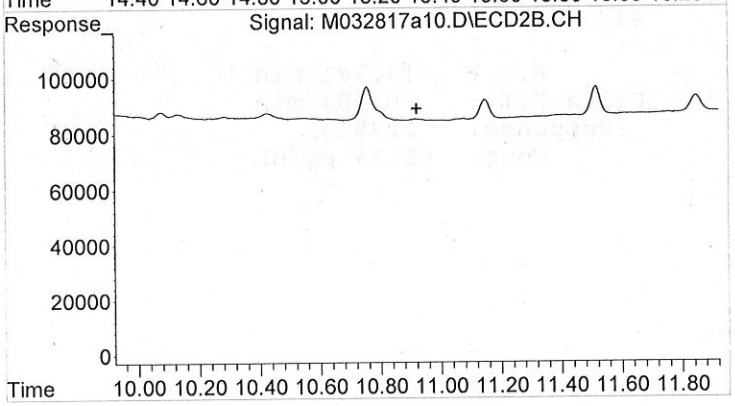

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 9.821 min
Response: 0
Conc: N.D.



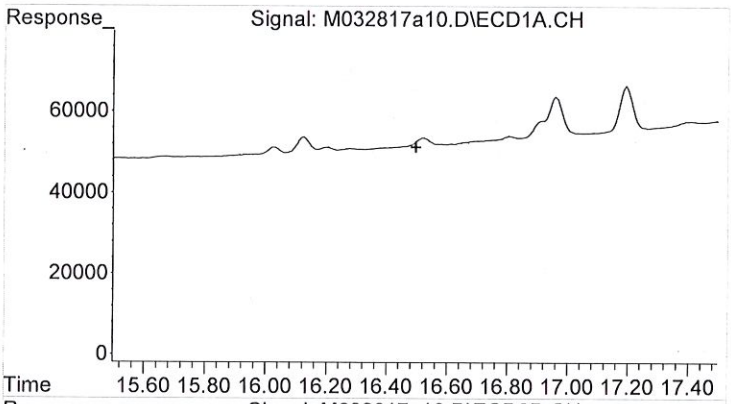

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.335 min
Response: 0
Conc: N.D.



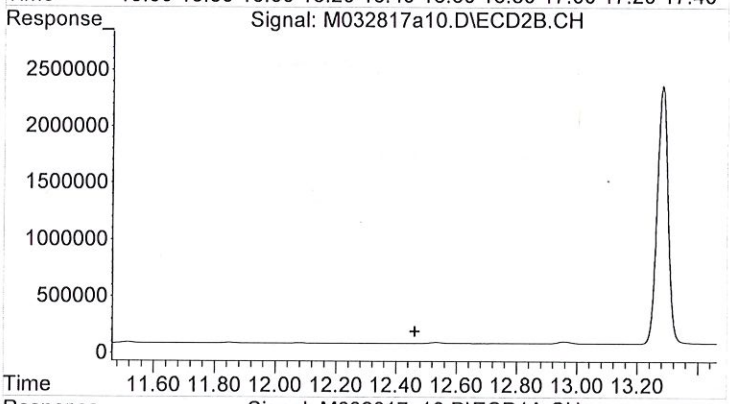

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 10.922 min
Response: 0
Conc: N.D.



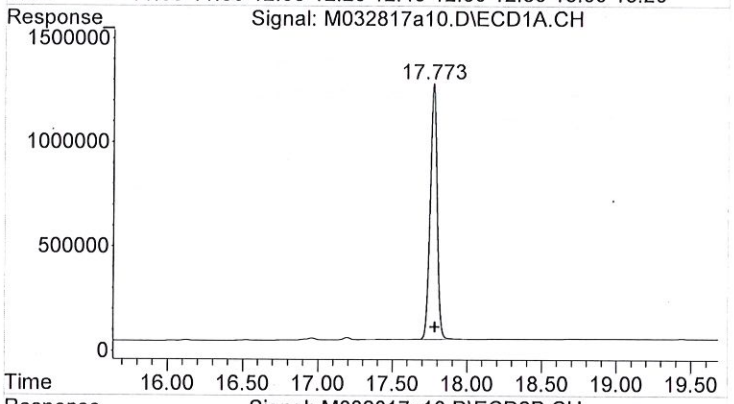

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



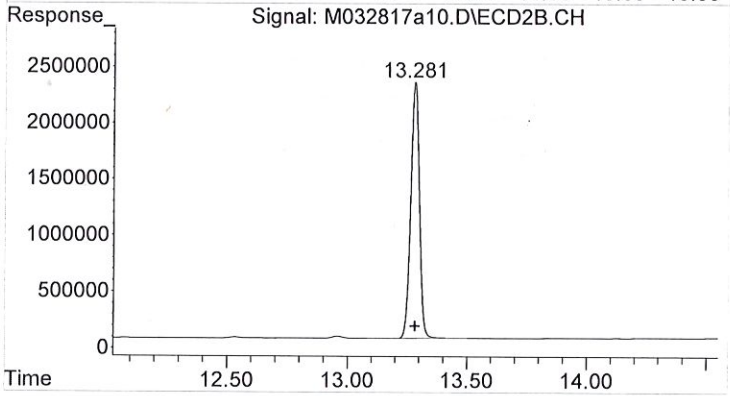

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.




#12 dcb

R.T.: 17.772 min
Delta R.T.: -0.013 min
Response: 1224461
Conc: 83.01 pg/uL




#12 dcb

R.T.: 13.281 min
Delta R.T.: -0.003 min
Response: 2275437
Conc: 95.34 pg/uL

# PCB Sample Results Summary

Sample.....: 17104004
Data File....: M032817a11.D
Project.....: OCE-009C
Matrix.....: ~~Wipe~~ PUF
Analyzed.....: 03/28/2017 21:01
Type.....: 0
Additional Info..: Sky Valley PCB PUF 2mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M032117PCB1260.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\M032817a11.D

Date Prepped...: 3/28/2017
ICAL Date.....: 03/21/2017
Prep Method....: 3541
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: 11

Instrument.....: Minerva
Amount Extracted.: 1 ~~wipe~~ PUF
Percent Solids...: NA
Final Volume.....: 2 mL
Dilution.....: 1x D0

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) | 6.98 | 6.99 | 2051130 | | 100 | 77 | 77 | %Rec | |
| 12 | 2.5 | 250 | dcb | 17.77 | 17.79 | 1250590 | | 100 | 85 | 85 | %Rec | |
| 14 | 2.5 | 250 | tmx (1) #2 | 4.80 | 4.80 | 3587530 | | 100 | 87 | 87 | %Rec | |
| 25 | 2.5 | 250 | dcb #2 | 13.28 | 13.28 | 2204970 | | 100 | 92 | 92 | %Rec | |
| 2 | 25 | 1000 | 1016 -1 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 3 | 25 | 1000 | 1016-2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 4 | 25 | 1000 | 1016-3 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 5 | 25 | 1000 | 1016-4 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 6 | 25 | 1000 | 1016-5 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 7 | 25 | 1000 | 1260-1 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 8 | 25 | 1000 | 1260-2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 9 | 25 | 1000 | 1260-3 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 10 | 25 | 1000 | 1260-4 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 11 | 25 | 1000 | 1260-5 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 15 | 25 | 1000 | 1016 -1 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 16 | 25 | 1000 | 1016-2 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 17 | 25 | 1000 | 1016-3 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 18 | 25 | 1000 | 1016-4 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 19 | 25 | 1000 | 1016-5 #2 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 20 | 25 | 1000 | 1260-1 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 21 | 25 | 1000 | 1260-2 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 22 | 25 | 1000 | 1260-3 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 23 | 25 | 1000 | 1260-4 #2 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 24 | 25 | 1000 | 1260-5 #2 | - | - | - | | - | - | 0.050 | ug (RL) | U |

| CAS# | Name | Avg | Unit | n | %RSD | Column RPD[2] |
|---|---|---|---|---|---|---|
| 12674112 | 1016 Column 1 | 0.050 | ug (RL) | 0 | NA | Results will be reported from Column 1 |
| 12674112 | 1016 Column 2 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 1 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 2 | 0.050 | ug (RL) | 0 | NA | |

[1]'Amount' units are pg or pg/uL on column. [2]RPD (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 2017 DATA\M032817PCBDW\
Data File : M032817a11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 9:01 pm
Operator : DWOOD
Sample : 17104004
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 11 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 30 16:28:53 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.982 | 4.799 | 2051133 | 3587525 | 77.374 | 86.975 |
| 12) S2 dcb | 17.774 | 13.283 | 1250587 | 2204969 | 84.811 | 92.380 |
| 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 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8) L2 1260-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. 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. | 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.

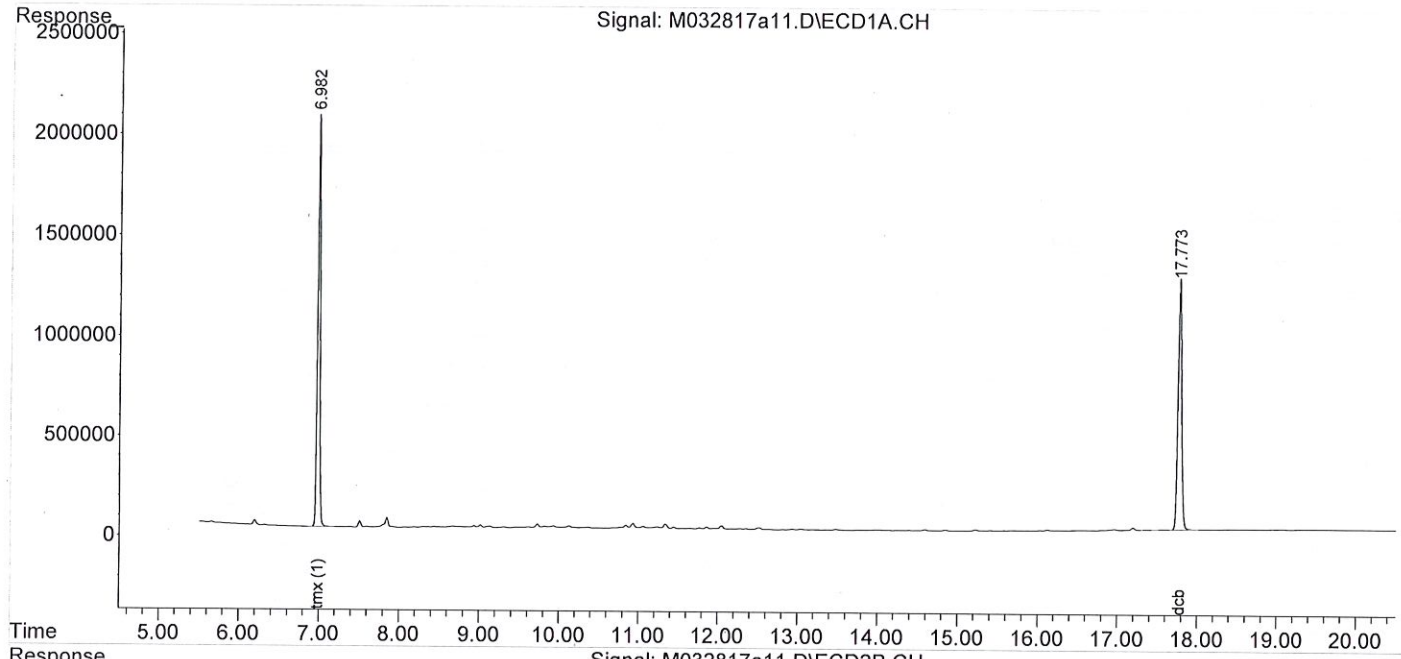
LW
3/31/17

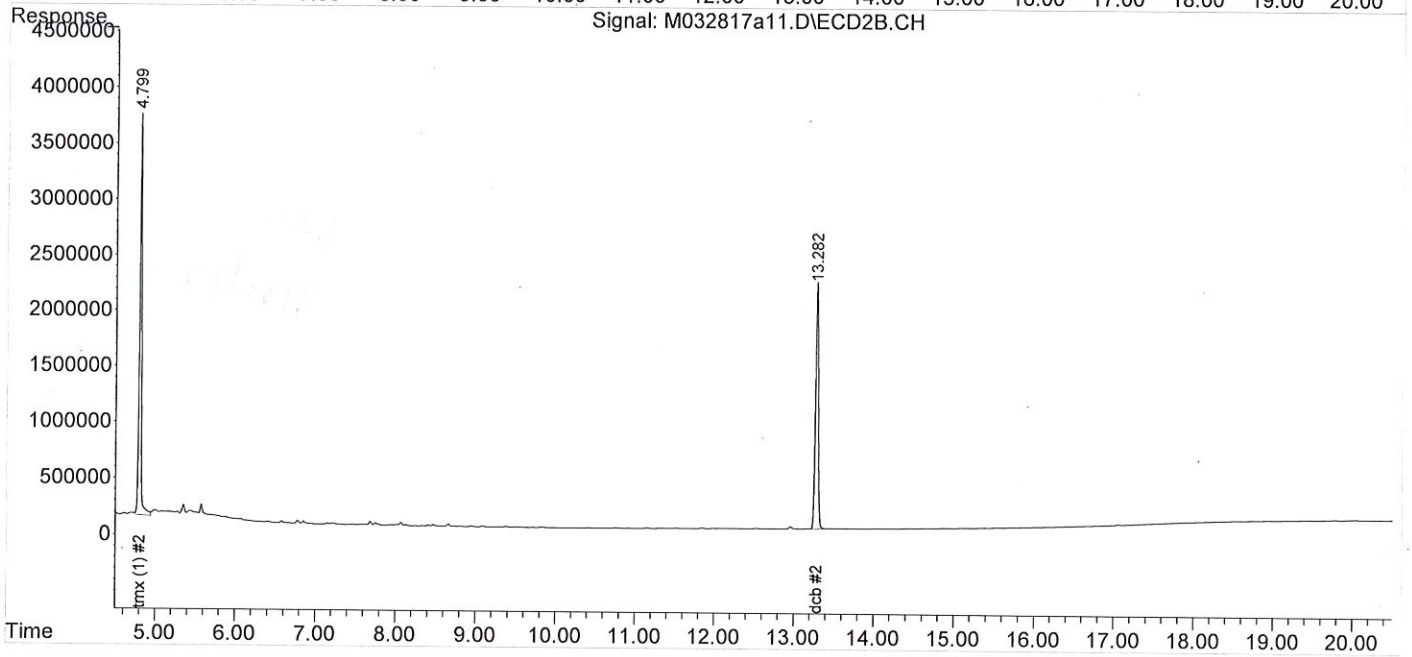
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 9:01 pm
Operator : DWOOD
Sample : 17104004
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 11 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 30 16:28:53 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 21:01 pm
Operator : DWOOD
Sample : 17104004
Misc : PCB PUF IDOC 2mL fv
ALS Vial : 0 (Sig #1); 11 (Sig #2) Sample Multiplier: 1

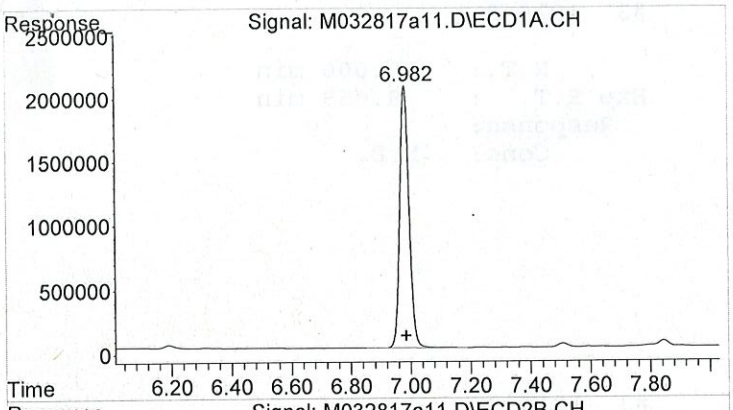
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 08:36:33 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.982 | 4.799 | 2051133 | 3587525 | 77.374 | 86.975 |
| 12) S2 dcb | 17.774 | 13.283 | 1250587 | 2204969 | 84.811 | 92.380 |
| Target Compounds | | | | | | |
| 2) L1 1016 -1 | 0.000 | 5.350 | 0 | 111658 | N.D. | 133.983 # |
| 3) L1 1016-2 | 0.000 | 5.799 | 0 | 33042 | N.D. | 20.179 # |
| 4) L1 1016-3 | 0.000 | 6.419 | 0 | 7695 | N.D. | 3.003 # |
| 5) L1 1016-4 | 0.000 | 6.575 | 0 | 15760 | N.D. | 11.979 # |
| 6) L1 1016-5 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| Sum 1016 -1 | | | 0 | 168155 | N.D. | 169.143 |
| Average 1016 -1 | | | | | 0.000 | 42.286 |
| 7) L2 1260-1 | 12.513 | 8.941 | 9098 | 7931 | N.D. | 1.397 # |
| 8) L2 1260-2 | 0.000 | 9.378 | 0 | 7419 | N.D. | 1.812 # |
| 9) L2 1260-3 | 0.000 | 9.820 | 0 | 5897 | N.D. | 4.532 # |
| 10) L2 1260-4 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 11) L2 1260-5 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| Sum 1260-1 | | | 0 | 21247 | N.D. | 7.741 |
| Average 1260-1 | | | | | 0.000 | 2.580 |

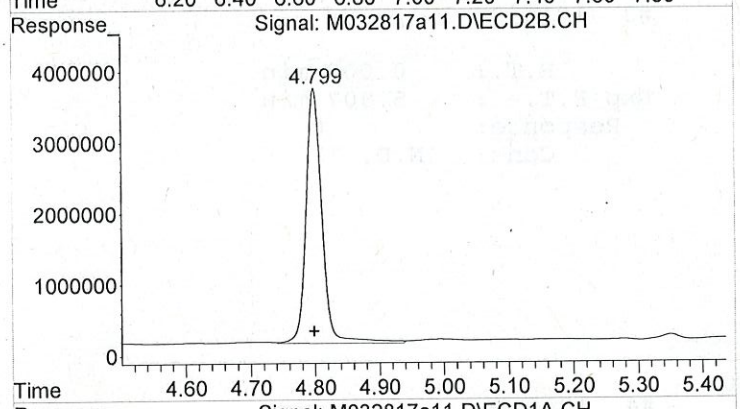
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

3/30/17



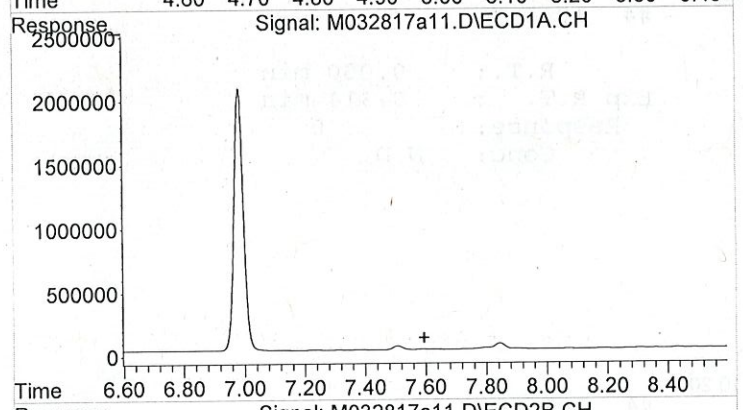

#1 tmx (1)

R.T.: 6.982 min
Delta R.T.: -0.004 min
Response: 2051133
Conc: 77.37 pg/uL



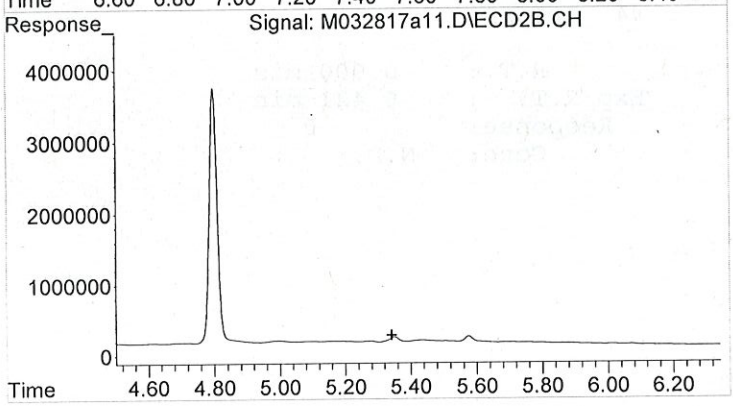

#1 tmx (1)

R.T.: 4.799 min
Delta R.T.: 0.000 min
Response: 3587525
Conc: 86.98 pg/uL



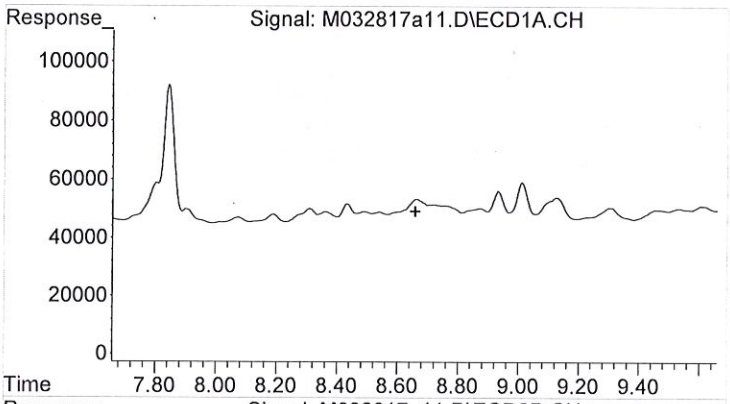

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



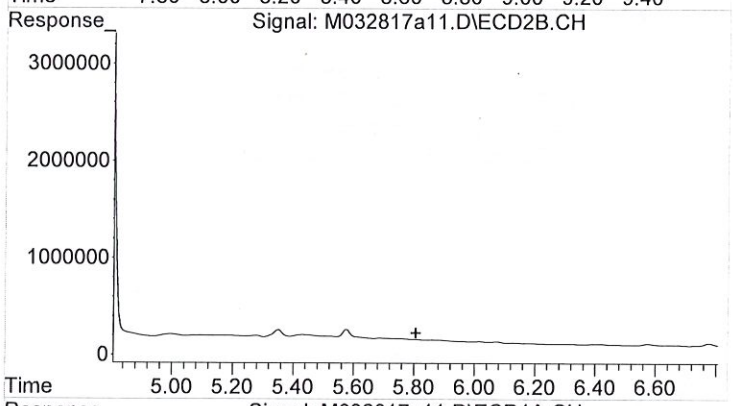

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



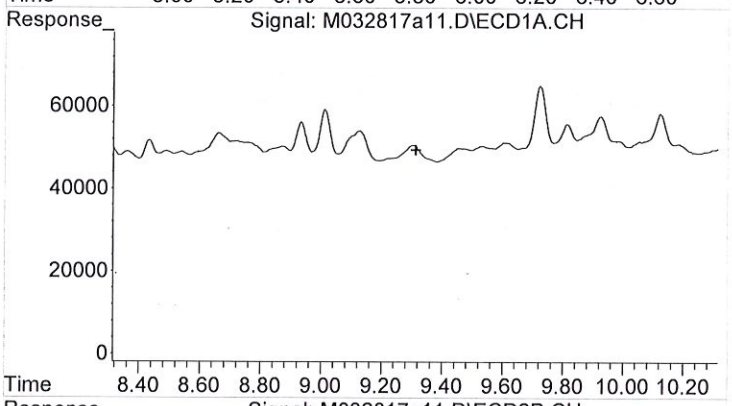

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



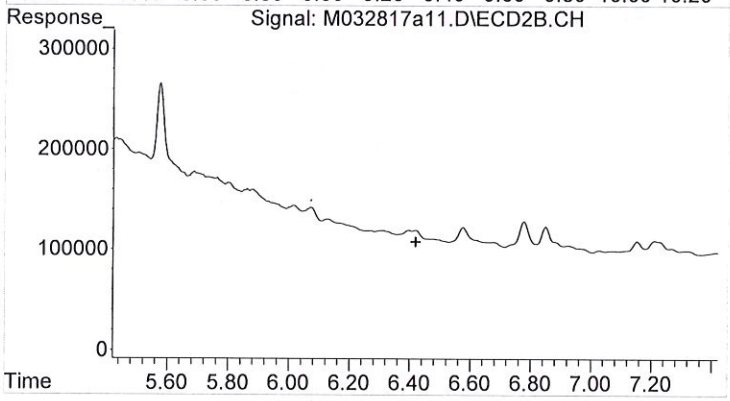

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



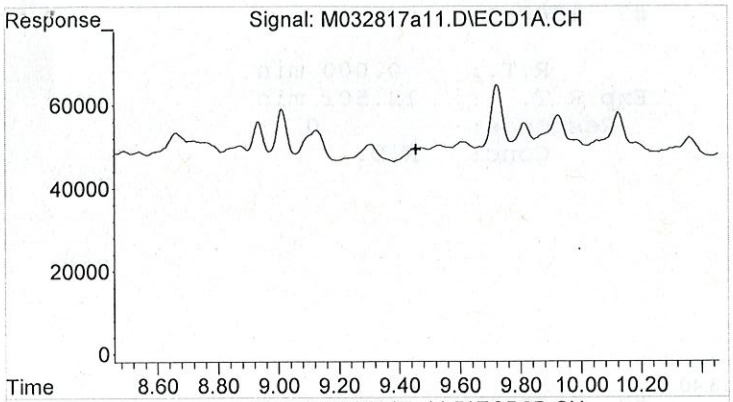

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



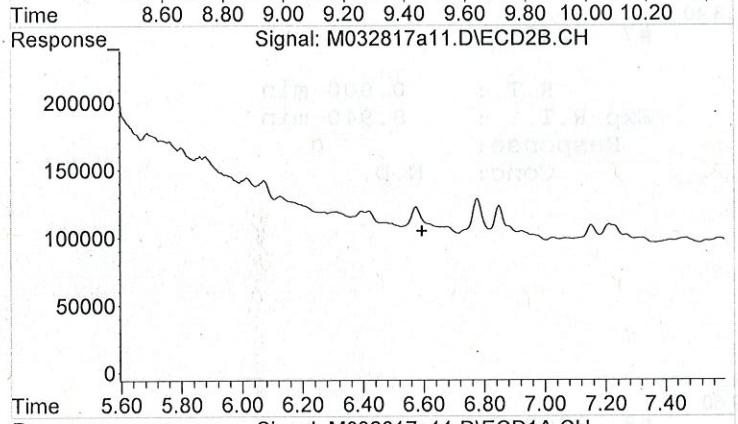

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



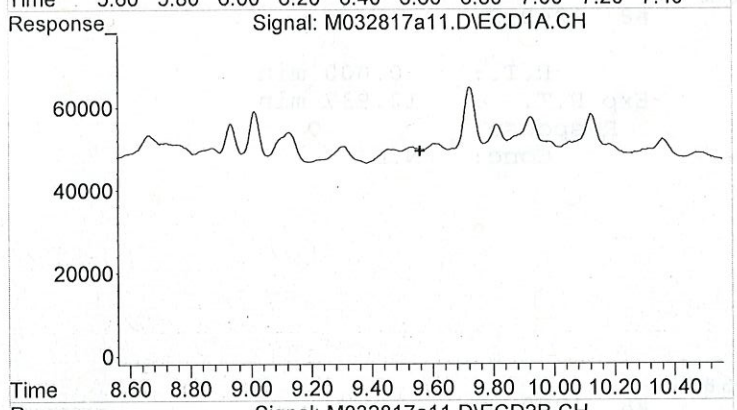

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



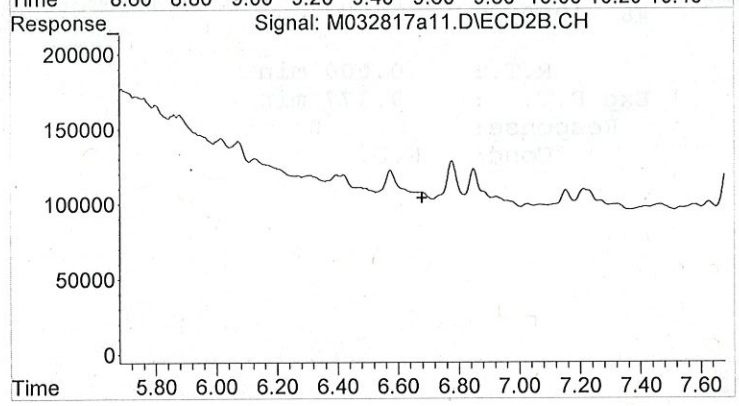

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



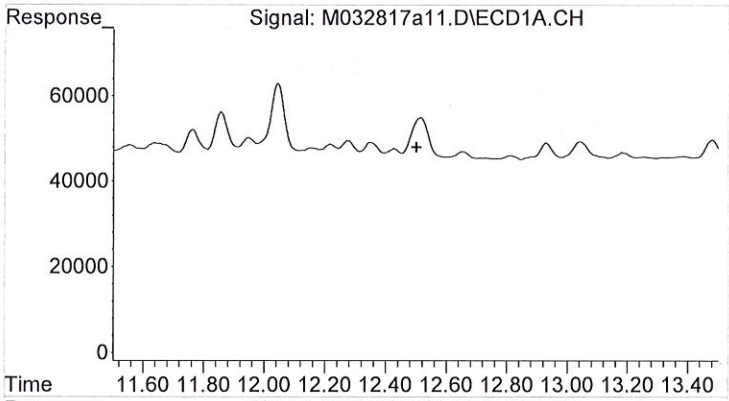

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



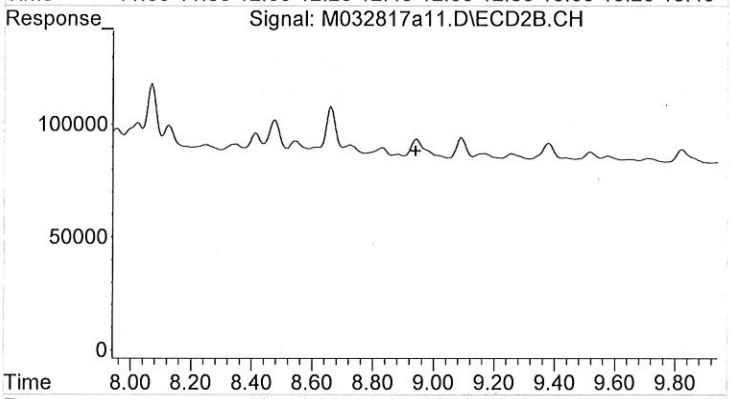

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



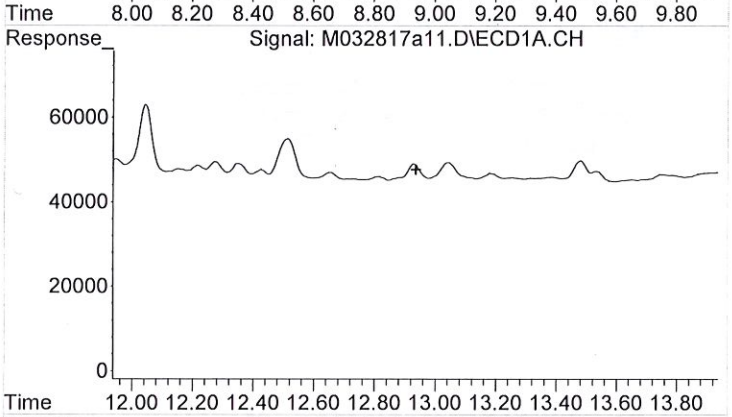

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.501 min
Response: 0
Conc: N.D.



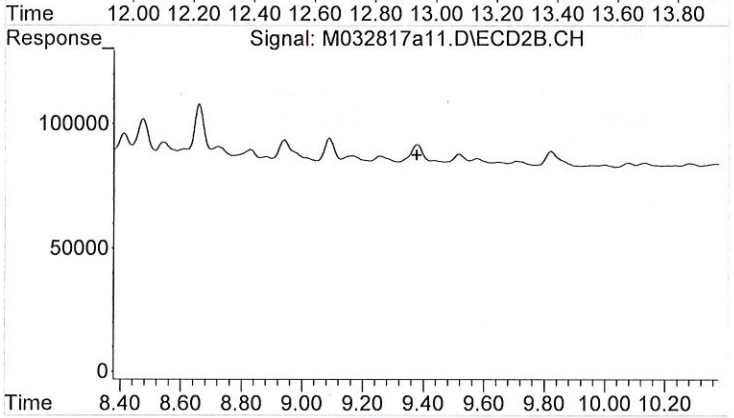

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 8.940 min
Response: 0
Conc: N.D.



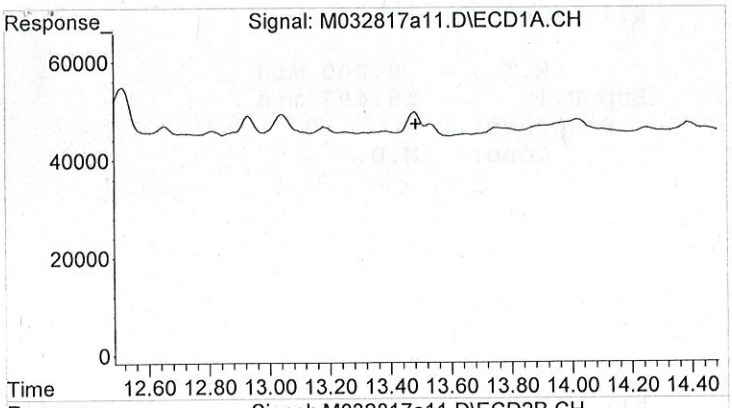

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 12.937 min
Response: 0
Conc: N.D.



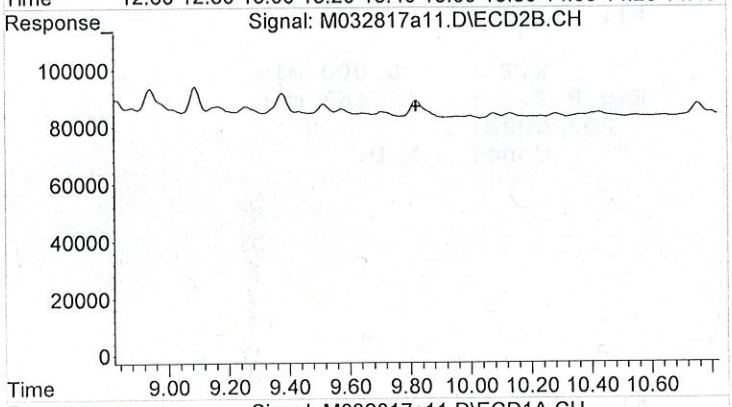

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.377 min
Response: 0
Conc: N.D.



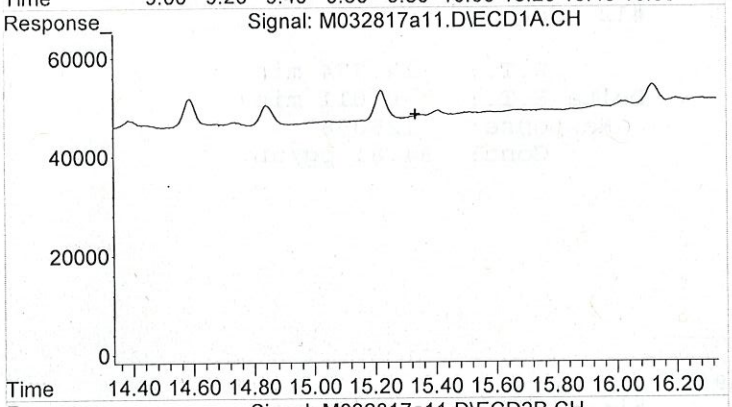

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.486 min
Response: 0
Conc: N.D.



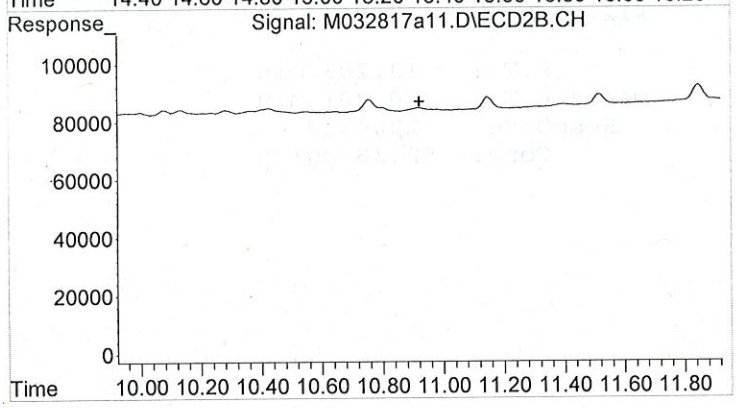

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 9.821 min
Response: 0
Conc: N.D.



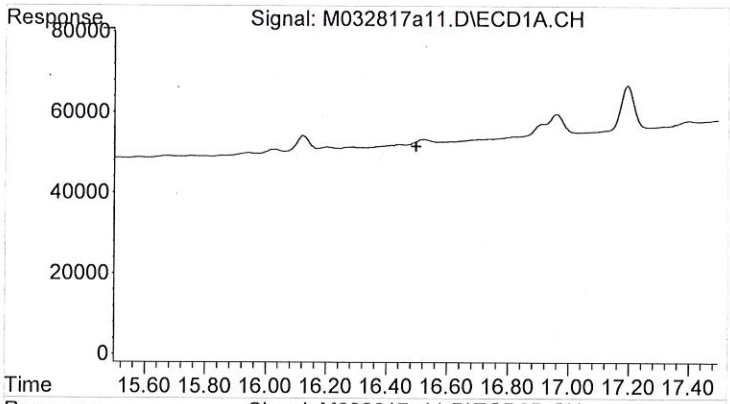

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.335 min
Response: 0
Conc: N.D.



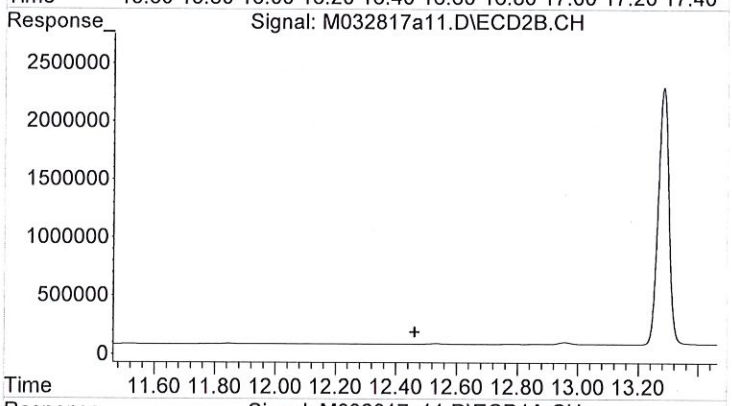

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 10.922 min
Response: 0
Conc: N.D.



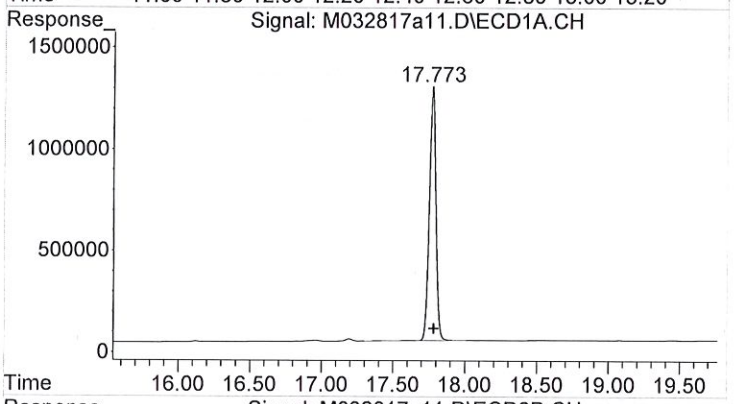

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



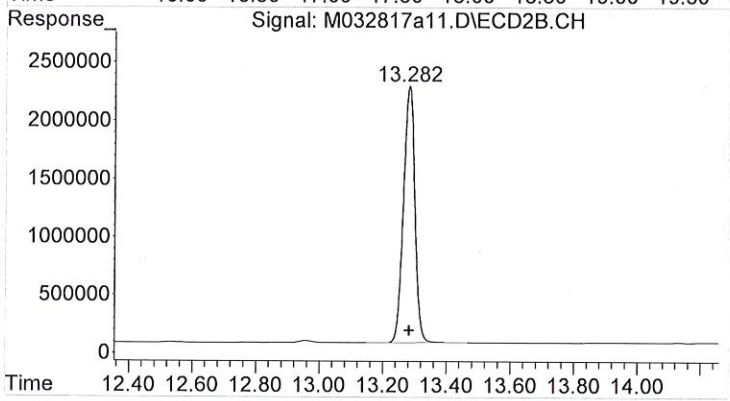

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.




#12 dcb

R.T.: 17.774 min
Delta R.T.: -0.011 min
Response: 1250587
Conc: 84.81 pg/uL




#12 dcb

R.T.: 13.283 min
Delta R.T.: -0.001 min
Response: 2204969
Conc: 92.38 pg/uL

# PCB Sample Results Summary

Sample.....: 17104005
Data File....: M032817a12.D
Project.....: OCE-009C
Matrix.....: ~~Wipe~~ PUF
Analyzed.....: 03/28/2017 21:26
Type.....: 0

Date Prepped...: 3/28/2017
ICAL Date.....: 02/12/2016
Prep Method....: 3541
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: 12

Instrument.....: Minerva
Amount Extracted.: 1 ~~wipe~~ PUF
Percent Solids...: NA
Final Volume.....: 2 mL
Dilution.....: 1x D0

Additional Info..: Sky Valley PCB PUF 2mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M032117PCB1242.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\M032817a12.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) | 6.98 | 6.99 | 1997010 | | 100 | 75 | 75 %Rec | |
| 12 | 2.5 | 250 | dcb | 17.77 | 17.79 | 1225300 | | 100 | 83 | 83 %Rec | |
| 14 | 2.5 | 250 | tmx (1) #2 | 4.80 | 4.80 | 3500860 | | 100 | 85 | 85 %Rec | |
| 25 | 2.5 | 250 | dcb #2 | 13.28 | 13.28 | 2270750 | | 100 | 95 | 95 %Rec | |
| 2 | 25 | 1000 | 1016 -1 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 3 | 25 | 1000 | 1016-2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 4 | 25 | 1000 | 1016-3 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 5 | 25 | 1000 | 1016-4 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 6 | 25 | 1000 | 1016-5 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 7 | 25 | 1000 | 1260-1 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 8 | 25 | 1000 | 1260-2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 9 | 25 | 1000 | 1260-3 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 10 | 25 | 1000 | 1260-4 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 11 | 25 | 1000 | 1260-5 | - | - | - | | - | - | 0.050 ug (RL) | U |
| 15 | 25 | 1000 | 1016 -1 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 16 | 25 | 1000 | 1016-2 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 17 | 25 | 1000 | 1016-3 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 18 | 25 | 1000 | 1016-4 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 19 | 25 | 1000 | 1016-5 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 20 | 25 | 1000 | 1260-1 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 21 | 25 | 1000 | 1260-2 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 22 | 25 | 1000 | 1260-3 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 23 | 25 | 1000 | 1260-4 #2 | - | - | - | d | - | - | 0.050 ug (RL) | U |
| 24 | 25 | 1000 | 1260-5 #2 | - | - | - | | - | - | 0.050 ug (RL) | U |

| CAS# | Name | Avg | Unit | n | %RSD | Column RPD² |
|---|---|---|---|---|---|---|
| 12674112 | 1016 Column 1 | 0.050 | ug (RL) | 0 | NA | Results will be reported from Column 1 |
| 12674112 | 1016 Column 2 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 1 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 2 | 0.050 | 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 2017 DATA\M032817PCBDW\
Data File : M032817a12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 9:26 pm
Operator : DWOOD
Sample : 17104005
Misc : Sky Valley PCB PUF 2mL fv
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: Mar 30 16:29:35 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.982 | 4.800 | 1997006 | 3500857 | 75.319 | 84.853 |
| 12) S2 dcb | 17.771 | 13.281 | 1225298 | 2270747 | 83.070 | 95.143 |
| 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. d | N.D. 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. d | N.D. d |
| 8) L2 1260-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. 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.

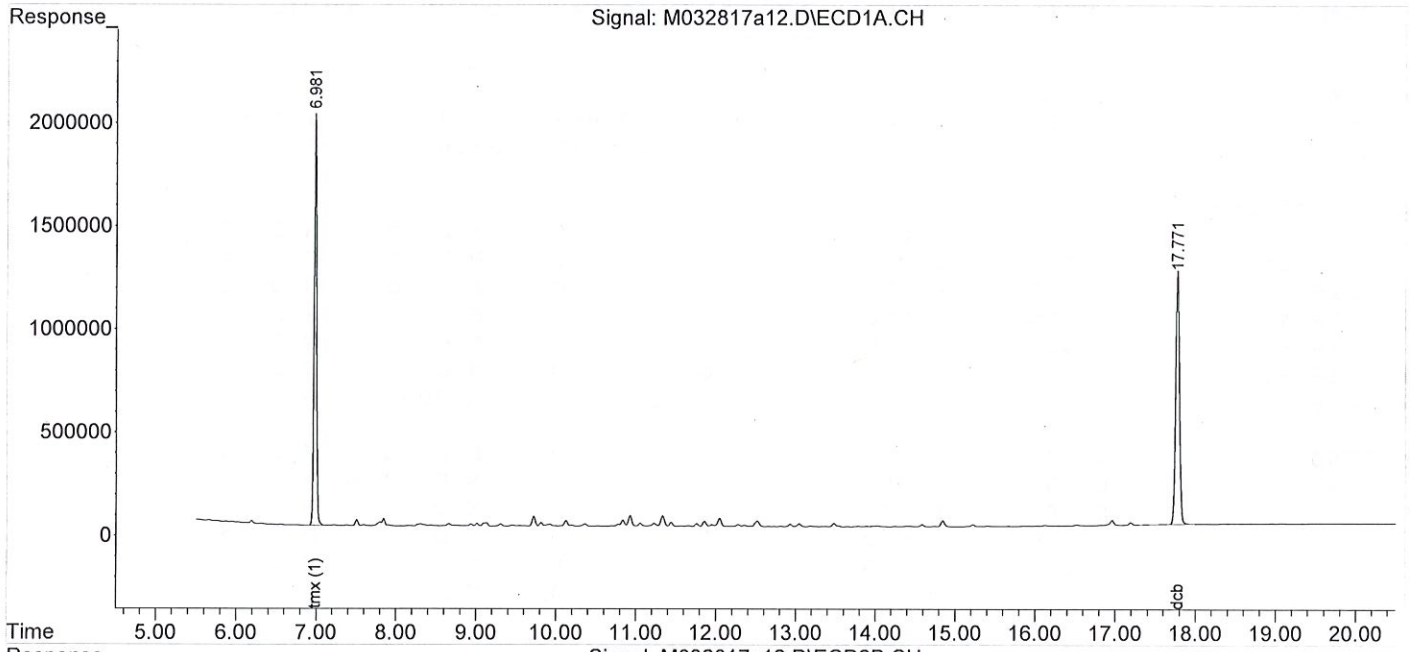
lw
3/31/17

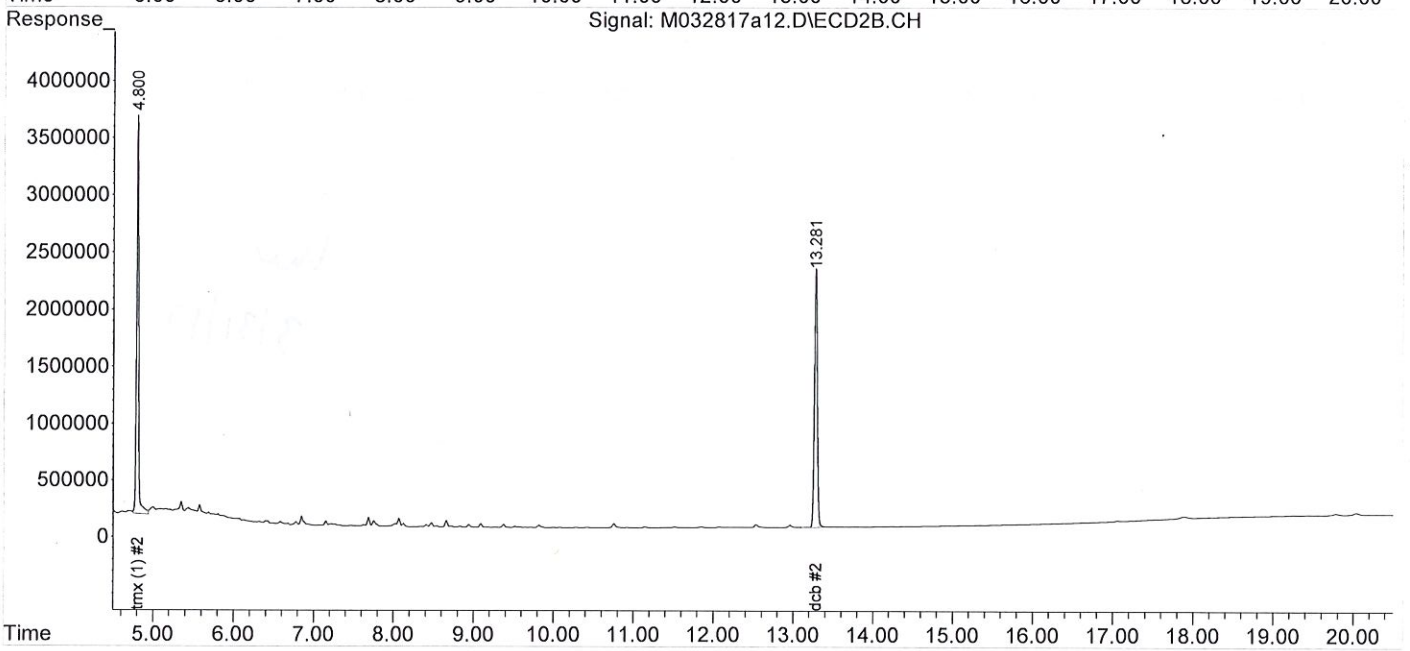
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 9:26 pm
Operator : DWOOD
Sample : 17104005
Misc : Sky Valley PCB PUF 2mL fv
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: Mar 30 16:29:35 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 21:26 pm
Operator : DWOOD
Sample : 17104005
Misc : PCB PUF IDOC 2mL fv
ALS Vial : 0 (Sig #1); 12 (Sig #2) Sample Multiplier: 1

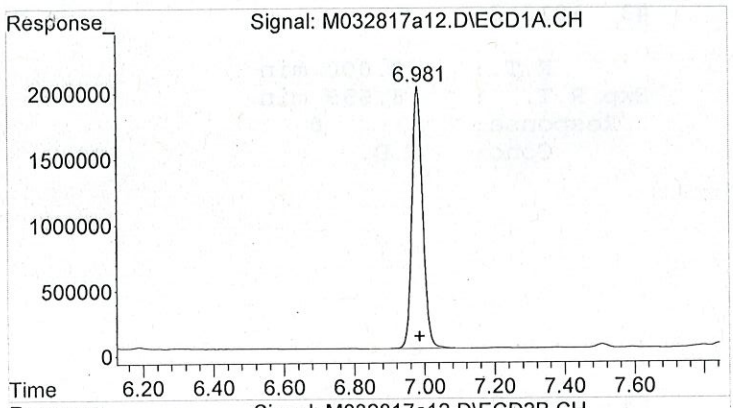
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 08:36:42 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.982 | 4.800 | 1997006 | 3500857 | 75.319 | 84.853 |
| 12) S2 dcb | 17.771 | 13.281 | 1225298 | 2270747 | 83.070 | 95.143 |
| Target Compounds | | | | | | |
| 2) L1 1016 -1 | 0.000 | 5.350 | 0 | 132836 | N.D. | 160.414 # |
| 3) L1 1016-2 | 8.658 | 5.802 | 9123 | 48814 | 3.684 | 31.234 # |
| 4) L1 1016-3 | 9.307 | 6.420 | 10807 | 21554 | 3.850 | 10.147 # |
| 5) L1 1016-4 | 9.452 | 6.579 | 4815 | 20549 | 0.628 | 16.301 # |
| 6) L1 1016-5 | 0.000 | 6.676 | 0 | 13261 | N.D. | 15.146 # |
| Sum 1016 -1 | | | 24745 | 237013 | 8.163 | 233.242 |
| Average 1016 -1 | | | | | 2.721 | 46.648 |
| 7) L2 1260-1 | 12.513 | 8.938 | 25342 | 22383 | 9.963 | 9.437 |
| 8) L2 1260-2 | 12.928 | 9.376 | 11540 | 26009 | N.D. | 9.017 # |
| 9) L2 1260-3 | 13.477 | 9.818 | 15020 | 19808 | 0.812 | 11.398 # |
| 10) L2 1260-4 | 0.000 | 10.918 | 0 | 2100 | N.D. | 2.708 # |
| 11) L2 1260-5 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| Sum 1260-1 | | | 40363 | 70301 | 8.082 | 32.561 |
| Average 1260-1 | | | | | 4.041 | 8.140 |

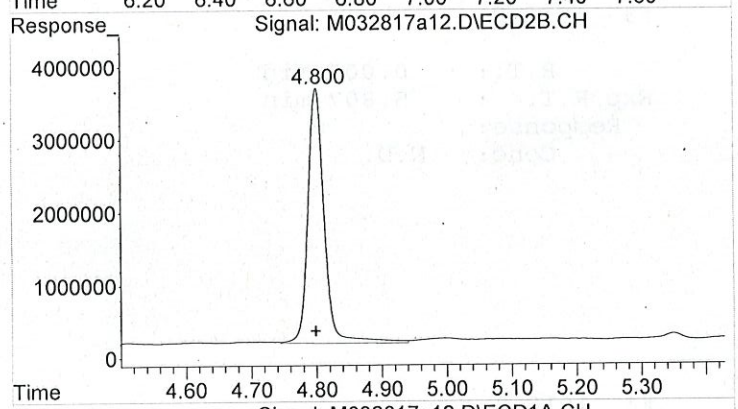
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
3/30/17



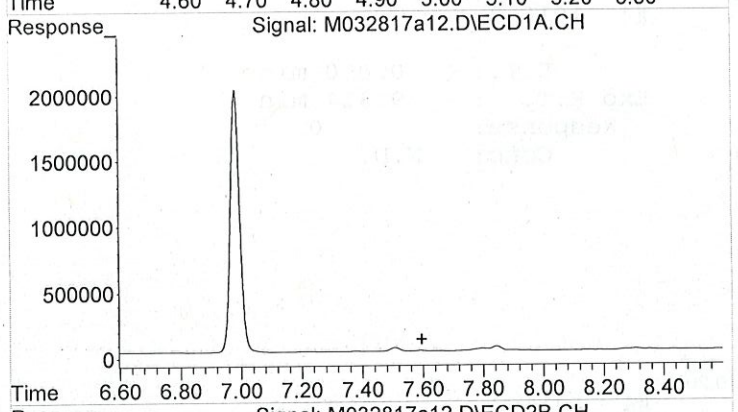

#1 tmx (1)

R.T.: 6.982 min
Delta R.T.: -0.004 min
Response: 1997006
Conc: 75.32 pg/uL



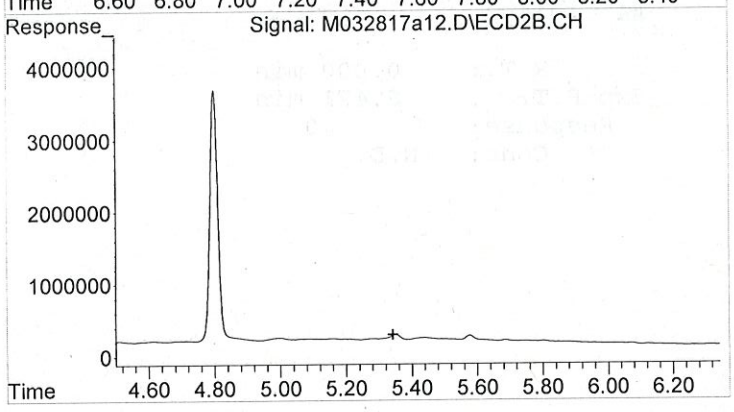

#1 tmx (1)

R.T.: 4.800 min
Delta R.T.: 0.001 min
Response: 3500857
Conc: 84.85 pg/uL



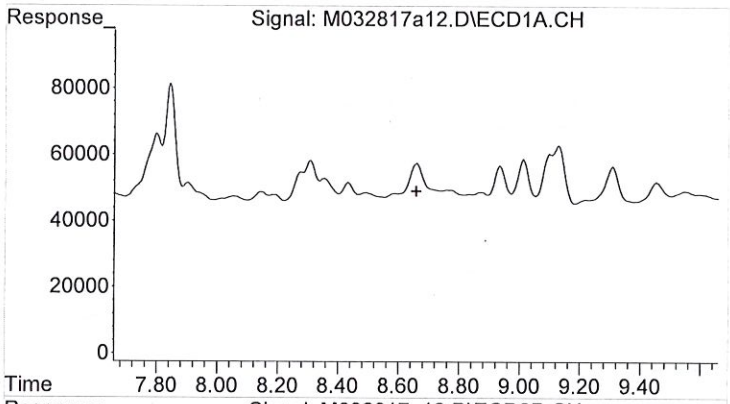

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



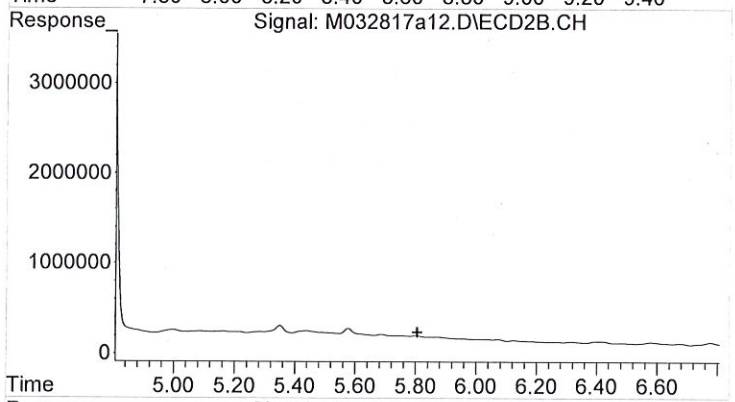

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



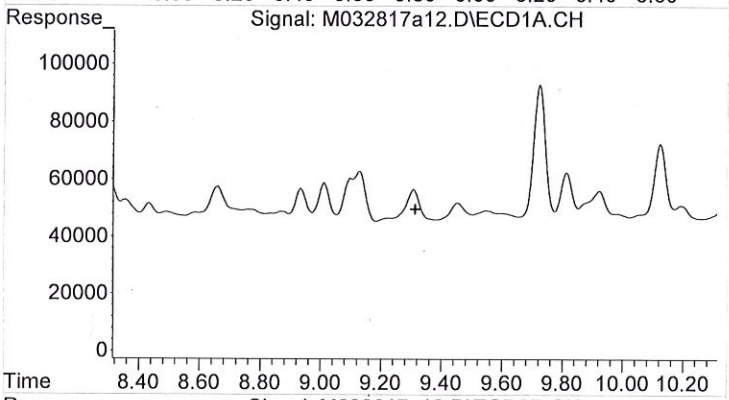

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



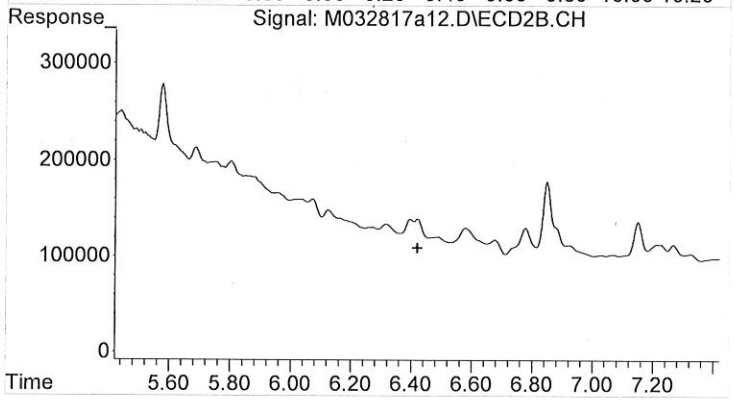

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



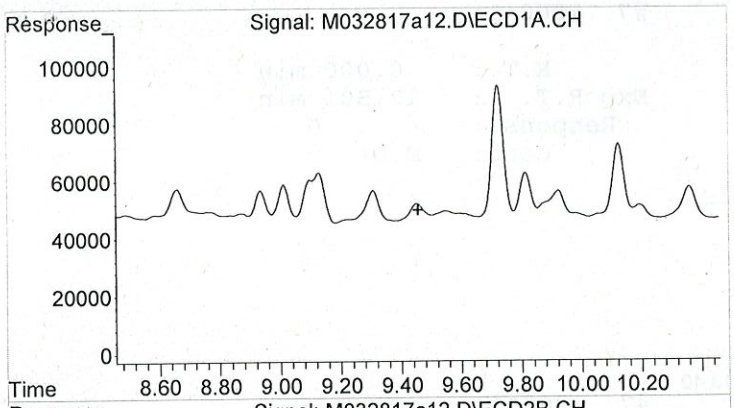

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



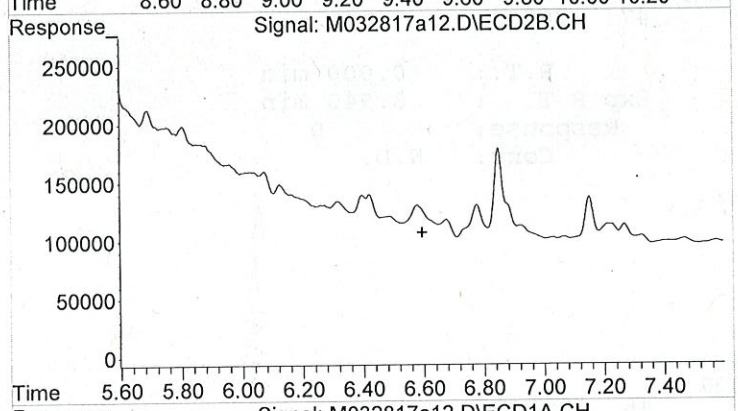

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



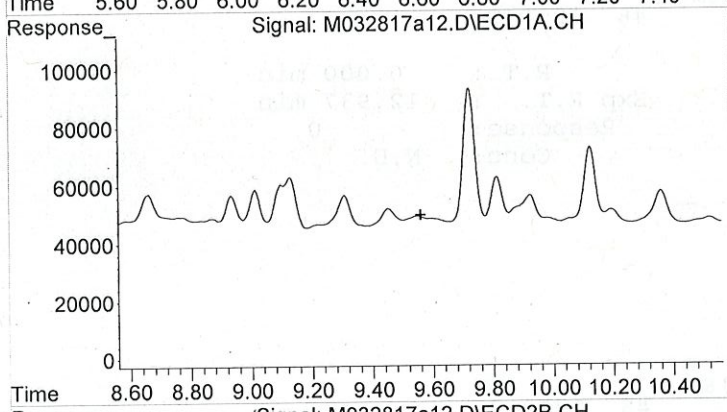

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



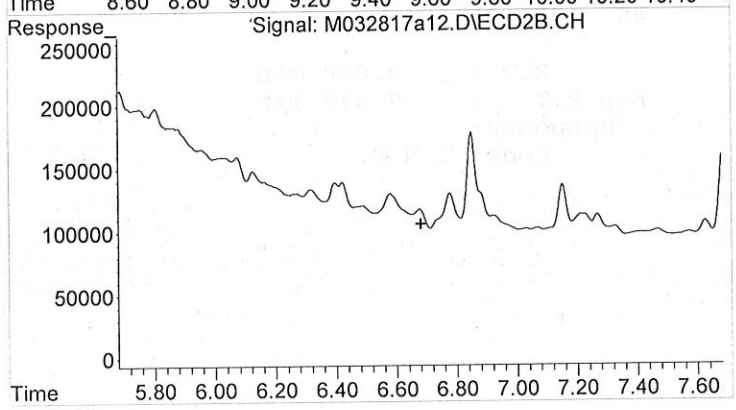

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



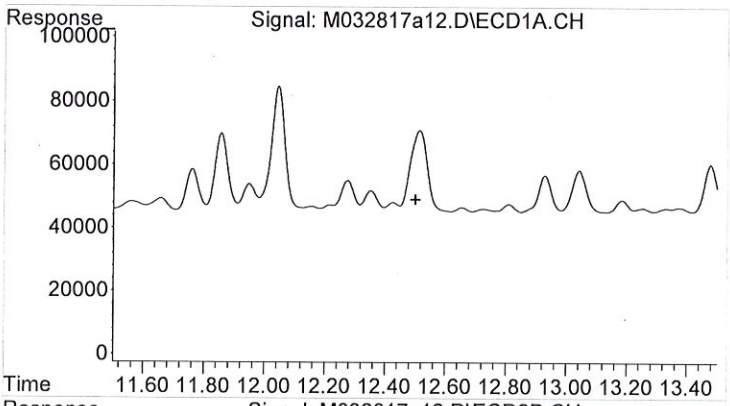

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



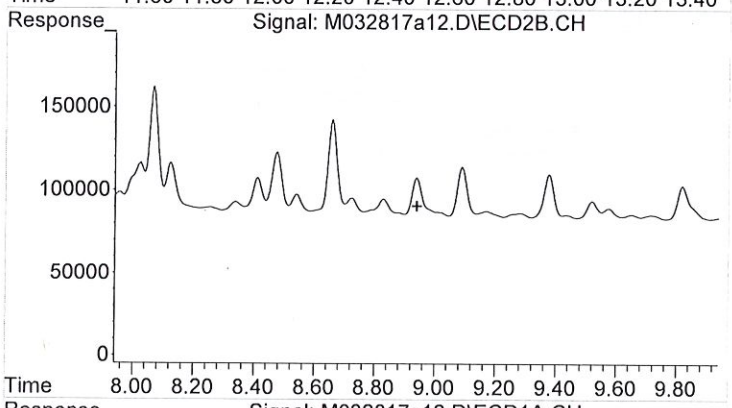

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



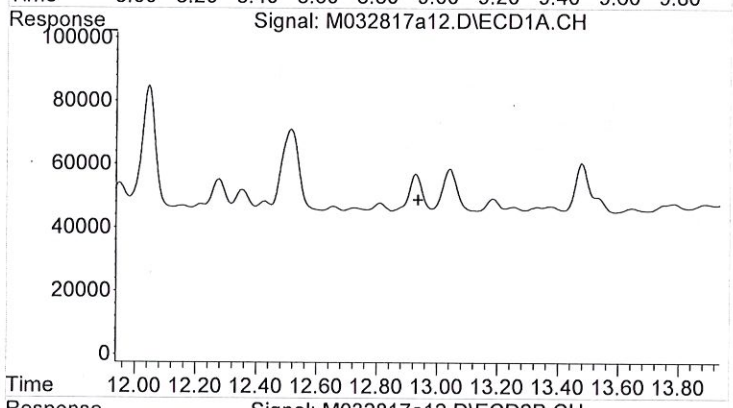

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.501 min
Response: 0
Conc: N.D.



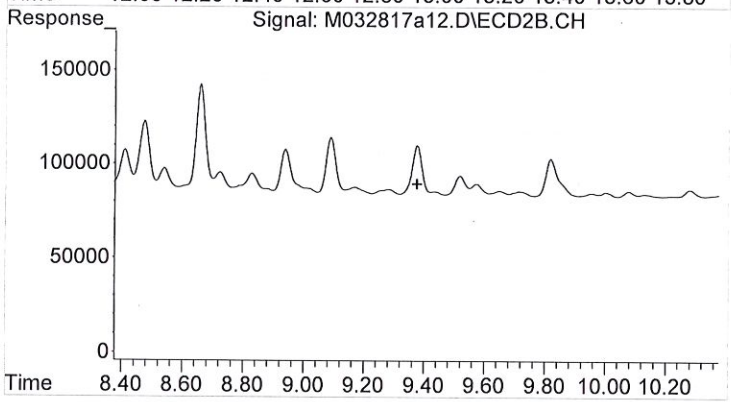

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 8.940 min
Response: 0
Conc: N.D.



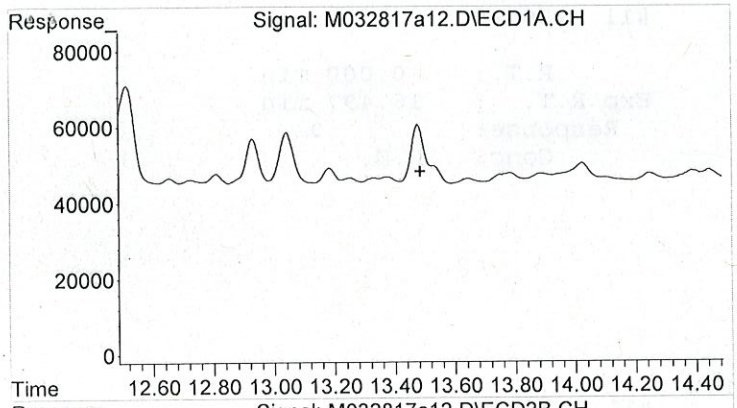

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 12.937 min
Response: 0
Conc: N.D.



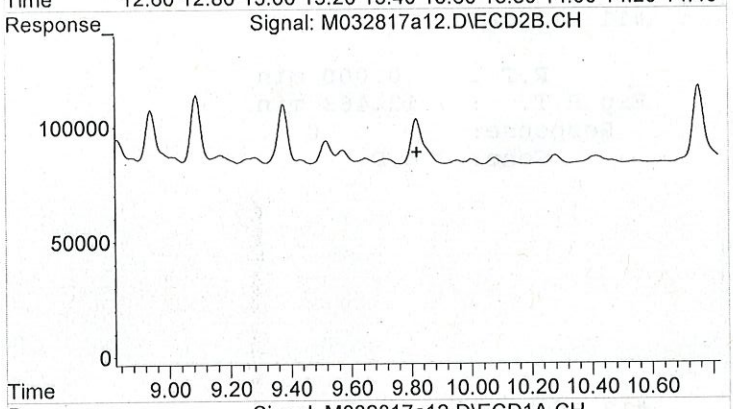

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.377 min
Response: 0
Conc: N.D.



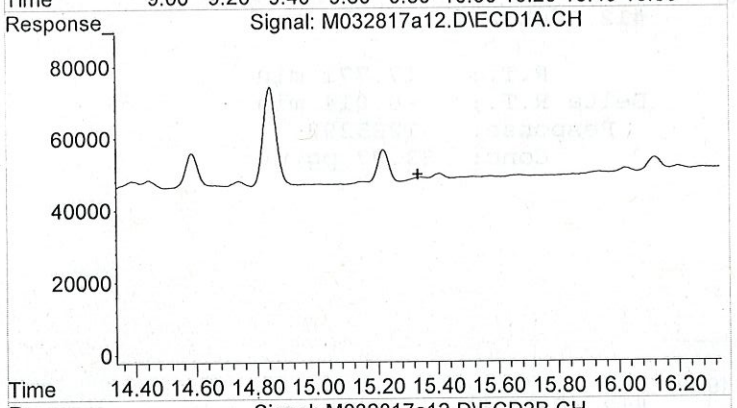

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.486 min
Response: 0
Conc: N.D.



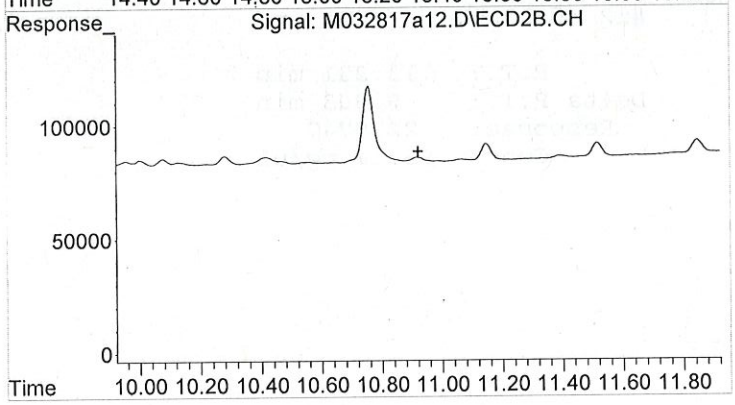

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 9.821 min
Response: 0
Conc: N.D.



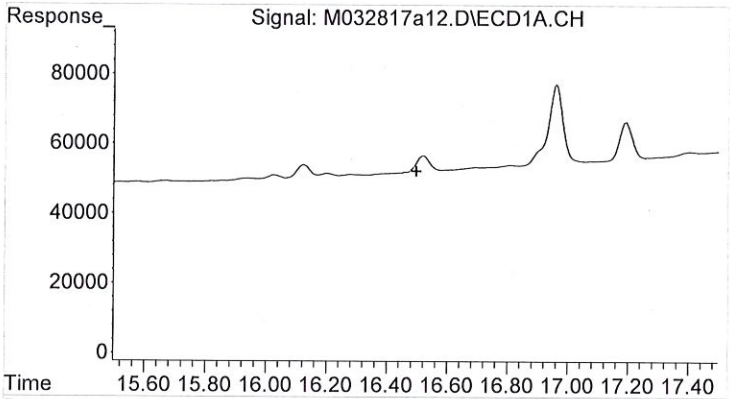

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.335 min
Response: 0
Conc: N.D.



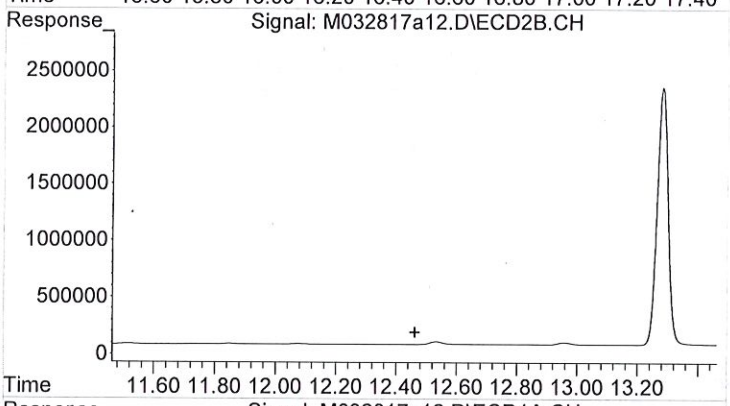

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 10.922 min
Response: 0
Conc: N.D.



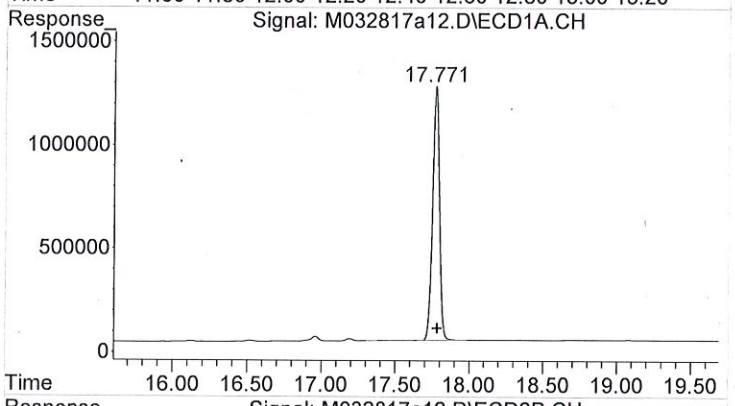

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



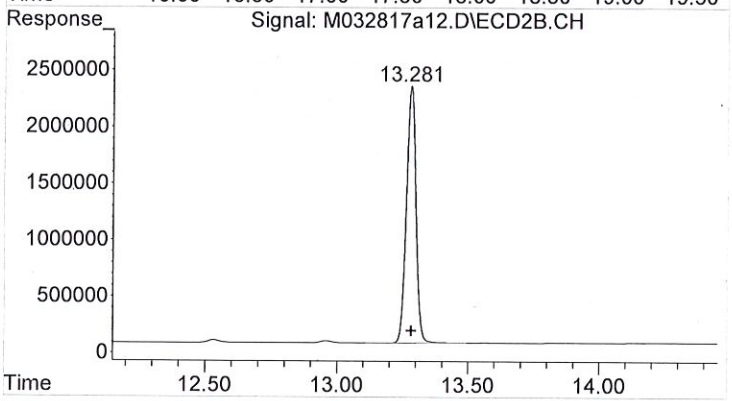

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.




#12 dcb

R.T.: 17.771 min
Delta R.T.: -0.014 min
Response: 1225298
Conc: 83.07 pg/uL




#12 dcb

R.T.: 13.281 min
Delta R.T.: -0.003 min
Response: 2270747
Conc: 95.14 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1242dw\
Data File : M033017a21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 19:10 pm
Operator : DWOOD
Sample : 17104005
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 19 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 31 09:32:38 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1242 -1 | 8.302 | 5.348 | 10584 | 79103 | 10.474 | 123.575m# |
| 2) L1 1242-2 | 8.652 | 5.799 | 10537 | 14733 | 14.377 | 8.620m# |
| 3) L1 1242-3 | 9.122 | 6.073 | 15760 | 16678 | 10.729 | 27.527m# |
| 4) L1 1242-4 | 9.302 | 6.413 | 9558 | 20403 | 8.456 | 14.129 # |
| 5) L1 1242-5 | 9.447 | 6.584 | 5934 | 16316 | 9.567 | 18.673 # |
| Sum 1242 -1 | | | 52372 | 147234 | 53.603 | 192.524 |
| Average 1242 -1 | | | | | 10.721 | 38.505 |

L25 ww

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

ww 3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1242dw\
Data File : M033017a21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 19:10 pm
Operator : DWOOD
Sample : 17104005
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 19 (Sig #2) Sample Multiplier: 1

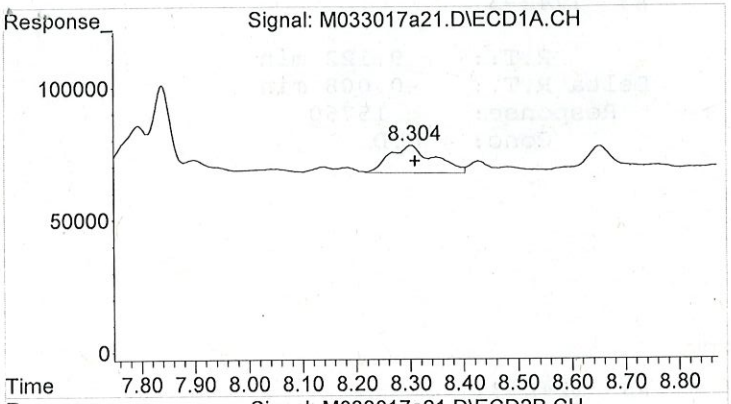
Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 31 07:56:13 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1) L1 1242 -1 | 8.302 | 5.348 | 10584 | 128240 | 10.474 | 203.092 | # |
| 2) L1 1242-2 | 8.652 | 5.799 | 10537 | 45511 | 14.377 | 37.845 | # |
| 3) L1 1242-3 | 9.122 | 0.000 | 15760 | 0 | 10.729 | N.D. | # |
| 4) L1 1242-4 | 9.302 | 6.413 | 9558 | 20403 | 8.456 | 14.129 | # |
| 5) L1 1242-5 | 9.447 | 6.584 | 5934 | 16316 | 9.567 | 18.673 | # |
| Sum 1242 -1 | | | 52372 | 210471 | 53.603 | 273.739 | |
| Average 1242 -1 | | | | | 10.721 | 68.435 | |

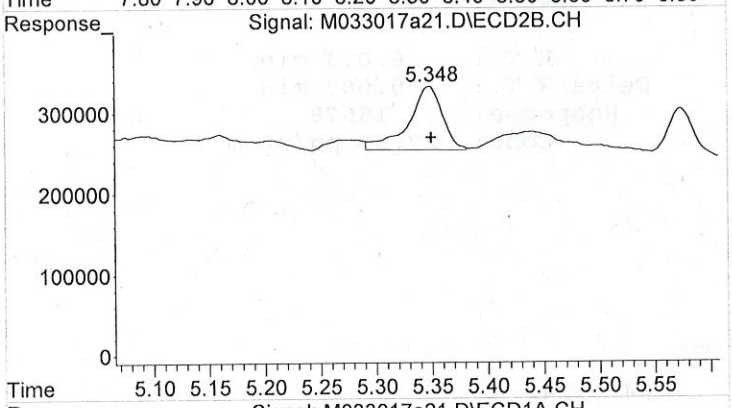
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

3/31/17



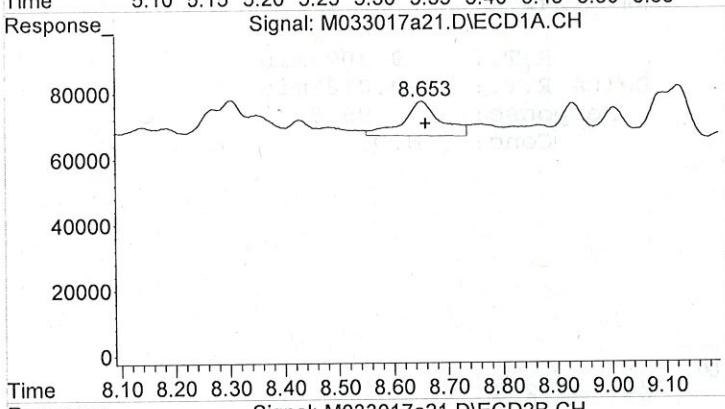

#1 1242 -1

R.T.: 8.302 min
Delta R.T.: -0.008 min
Response: 10584
Conc: N.D.



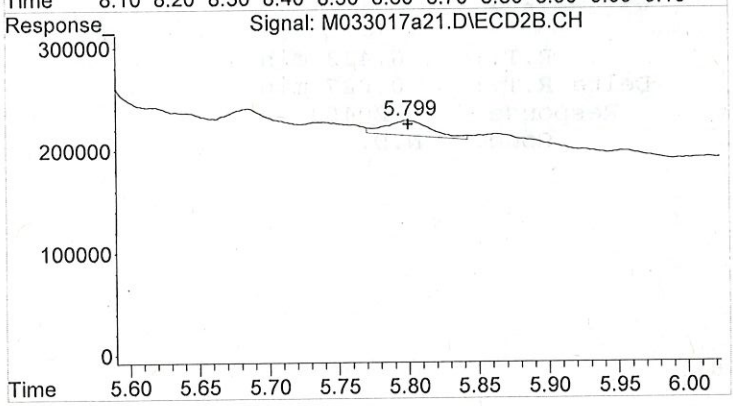

#1 1242 -1

R.T.: 5.348 min
Delta R.T.: -0.002 min
Response: 79103
Conc: 123.58 pg/uL m



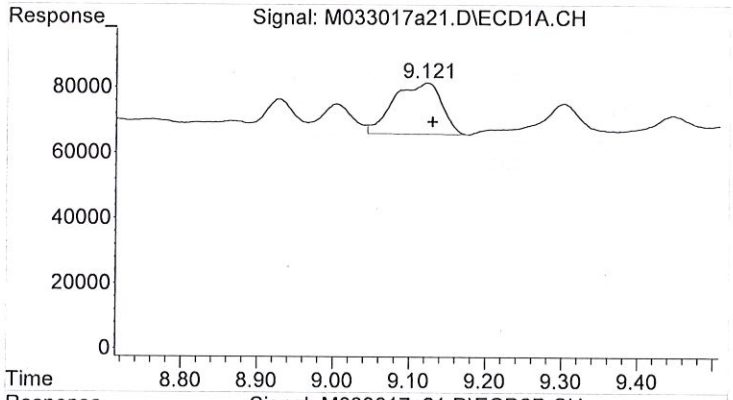

#2 1242-2

R.T.: 8.652 min
Delta R.T.: -0.008 min
Response: 10537
Conc: N.D.



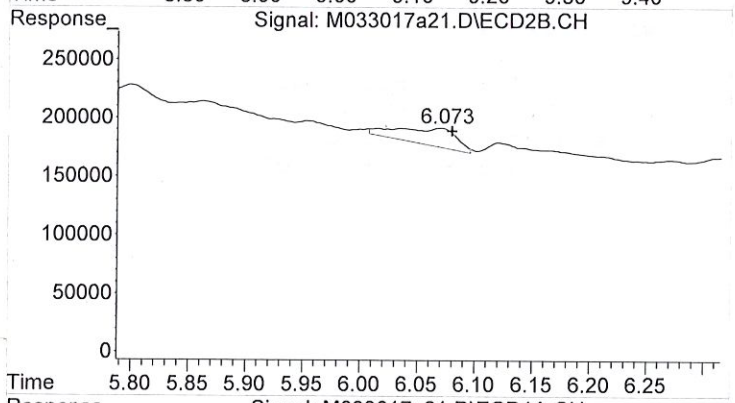

#2 1242-2

R.T.: 5.799 min
Delta R.T.: 0.000 min
Response: 14733
Conc: N.D.



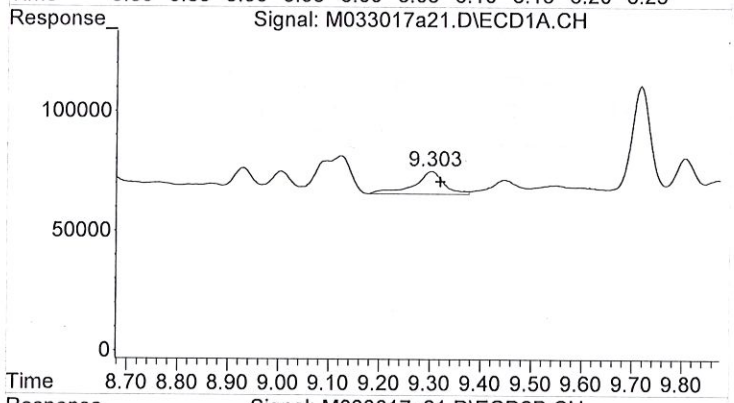

#3 1242-3

R.T.: 9.122 min
Delta R.T.: -0.008 min
Response: 15760
Conc: N.D.



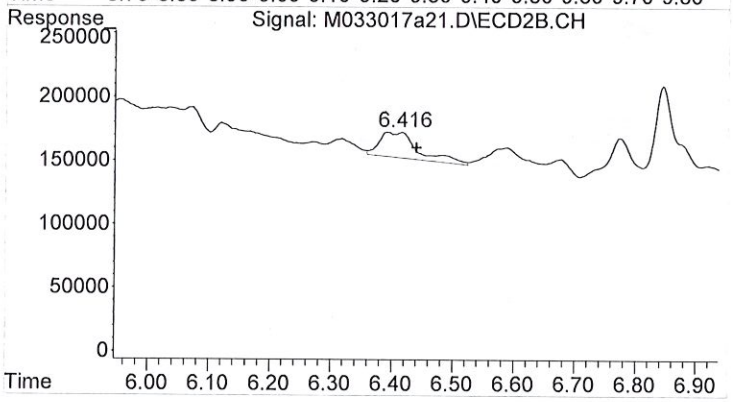

#3 1242-3

R.T.: 6.073 min
Delta R.T.: -0.007 min
Response: 16678
Conc: 27.53 pg/uL m



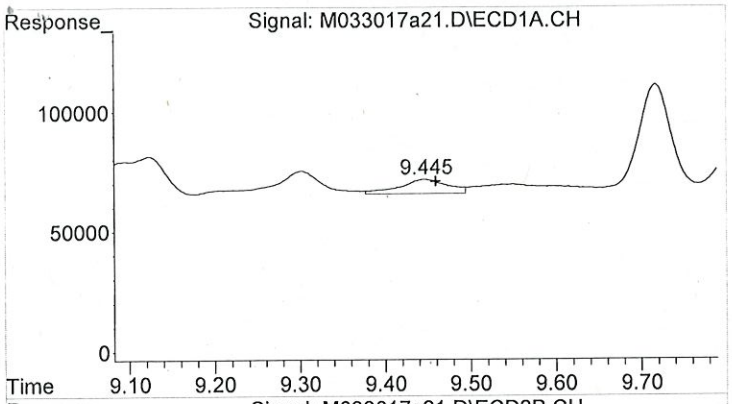

#4 1242-4

R.T.: 9.302 min
Delta R.T.: -0.018 min
Response: 9558
Conc: N.D.



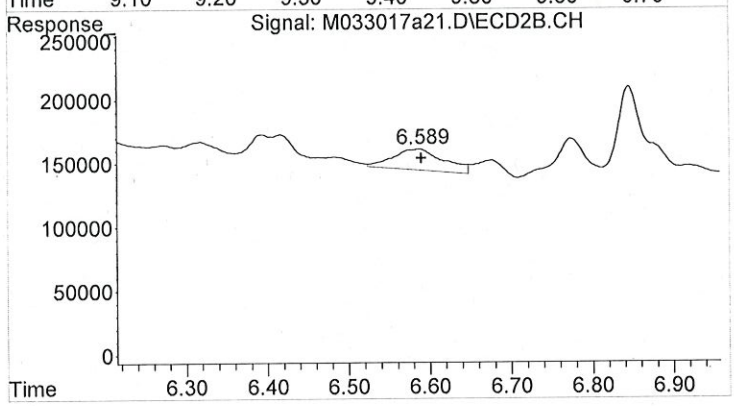

#4 1242-4

R.T.: 6.413 min
Delta R.T.: -0.027 min
Response: 20403
Conc: N.D.




#5 1242-5

R.T.: 9.447 min
Delta R.T.: -0.013 min
Response: 5934
Conc: N.D.




#5 1242-5

R.T.: 6.584 min
Delta R.T.: -0.006 min
Response: 16316
Conc: N.D.

Sample.....: 17104005
Data File....: M033017a21.D
Project.....: OCE-009C
Matrix.....: ~~Wipe~~ PUF
Analyzed.....: 03/30/2017 19:10
Type.....: 0
Additional Info..: Sky Valley PCB PUF 2mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M033017PCB1254.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dw\M033017a21.D

Date Prepped...: 3/28/2017
ICAL Date.....: 03/30/2017
Prep Method....: 3541
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: na

Instrument.....: Minerva
Amount Extracted.: 1 ~~wipe~~ PUF
Percent Solids...: NA
Final Volume.....: 2 mL
Dilution.....: 1x D0

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 | 25 | 1000 | 1254 -1 | 11.33 | 11.34 | 48965 | - | 38 | 0.075 ug | |
| 2 | 25 | 1000 | 1254-2 | 11.75 | 11.77 | 11389 | - | 26 | 0.053 ug | |
| 3 | 25 | 1000 | 1254-3 | 11.85 | 11.86 | 22221 | - | 25 | 0.051 ug | |
| 4 | 25 | 1000 | 1254-4 | 11.94 | 11.96 | 7873 | - | 29 | 0.059 ug | |
| 5 | 25 | 1000 | 1254-5 | 12.04 | 12.06 | 35465 | - | 21 | 0.050 ug (RL) | U |
| 7 | 25 | 1000 | 1254 -1 #2 | 7.68 | 7.69 | 70151 | - | 53 | 0.11 ug | |
| 8 | 25 | 1000 | 1254-2 #2 | 8.07 | 8.07 | 65964 | - | 39 | 0.079 ug | |
| 9 | 25 | 1000 | 1254-3 #2 | 8.47 | 8.48 | 31845 | - | 28 | 0.056 ug | |
| 10 | 25 | 1000 | 1254-4 #2 | 8.66 | 8.66 | 50370 | - | 26 | 0.052 ug | |
| 11 | 25 | 1000 | 1254-5 #2 | 8.94 | 8.94 | 19540 | - | 24 | 0.050 ug (RL) | U |

| CAS# | Name | Avg | Unit | n | %RSD | Column RPD[2] | |
|---|---|---|---|---|---|---|---|
| 11097691 | 1254 Column 1 | 0.059 | ug | 4 | 19 % | | Results will be reported from Column 1 |
| 11097691 | 1254 Column 2 | 0.073 | ug | 4 | 34 % | 21 % | |

[1]'Amount' units are pg or pg/uL on column. [2]RPD (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 2017 DATA\M033017PCB1254dw\
Data File : M033017a21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 19:10 pm
Operator : DWOOD
Sample : 17104005
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 19 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:57:43 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1254 -1 | 11.327 | 7.685 | 48965 | 70151 | 37.526 | 52.793 # |
| 2) L1 1254-2 | 11.753 | 8.065 | 11389 | 65964 | 26.497 | 39.448 # |
| 3) L1 1254-3 | 11.847 | 8.472 | 22221 | 31845 | 25.309 | 28.174 |
| 4) L1 1254-4 | 11.941 | 8.656 | 7873 | 50370 | 29.473 | 26.079 |
| 5) L1 1254-5 | 12.036 | 8.936 | 35465 | 19540 | 21.326 | 24.435 |
| Sum 1254 -1 | | | 125913 | 237869 | 140.131 | 170.930 |
| Average 1254 -1 | | | | | 28.026 | 34.186 |

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

M033017PCB1254.M Fri Mar 31 11:50:21 2017

3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dw\
Data File : M033017a21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 19:10 pm
Operator : DWOOD
Sample : 17104005
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 19 (Sig #2) Sample Multiplier: 1

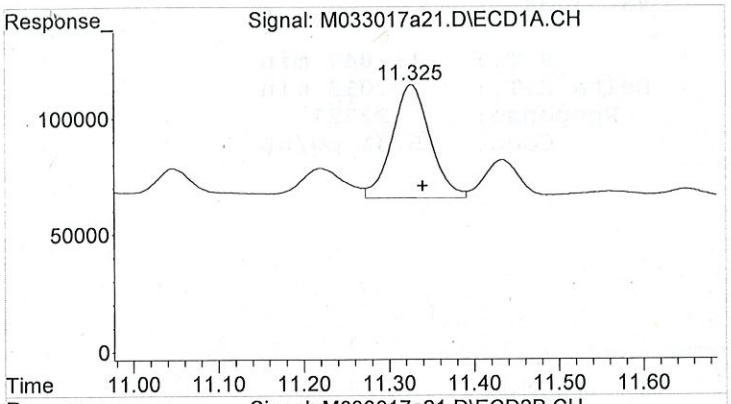
Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:57:43 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1254 -1 | 11.327 | 7.685 | 48965 | 70151 | 37.526 | 52.793 # |
| 2) L1 1254-2 | 11.753 | 8.065 | 11389 | 65964 | 26.497 | 39.448 # |
| 3) L1 1254-3 | 11.847 | 8.472 | 22221 | 31845 | 25.309 | 28.174 |
| 4) L1 1254-4 | 11.941 | 8.656 | 7873 | 50370 | 29.473 | 26.079 |
| 5) L1 1254-5 | 12.036 | 8.936 | 35465 | 19540 | 21.326 | 24.435 |
| Sum 1254 -1 | | | 125913 | 237869 | 140.131 | 170.930 |
| Average 1254 -1 | | | | | 28.026 | 34.186 |

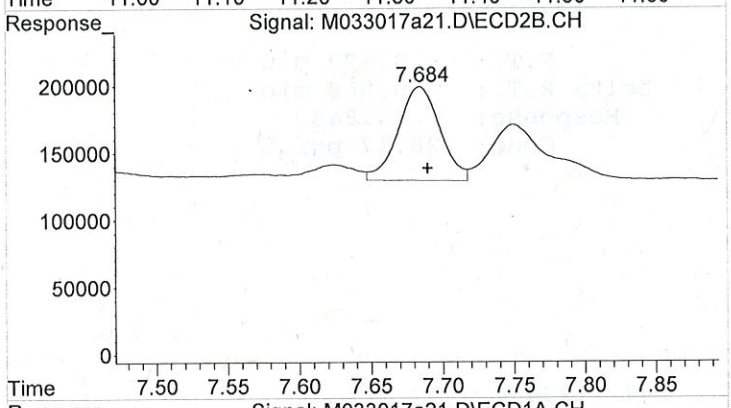
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW
3/31/17



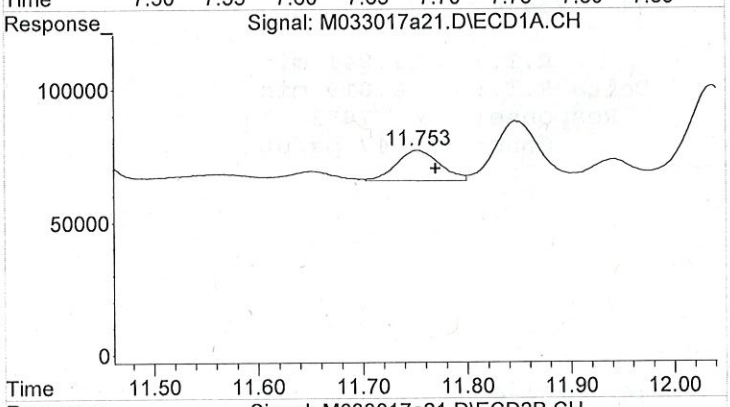

#1 1254 -1

R.T.: 11.327 min
Delta R.T.: -0.013 min
Response: 48965
Conc: 37.53 pg/uL



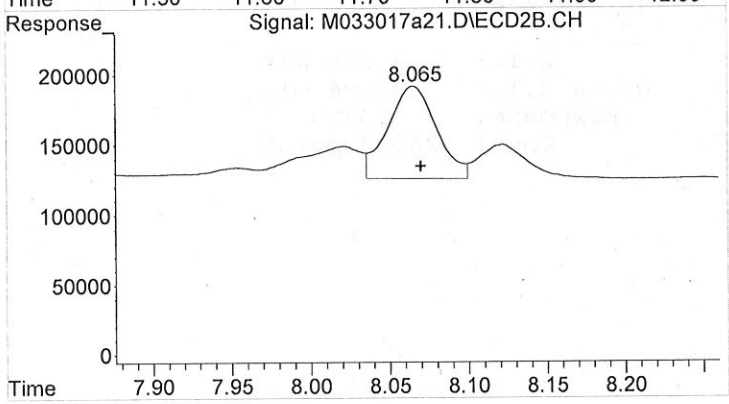

#1 1254 -1

R.T.: 7.685 min
Delta R.T.: -0.005 min
Response: 70151
Conc: 52.79 pg/uL



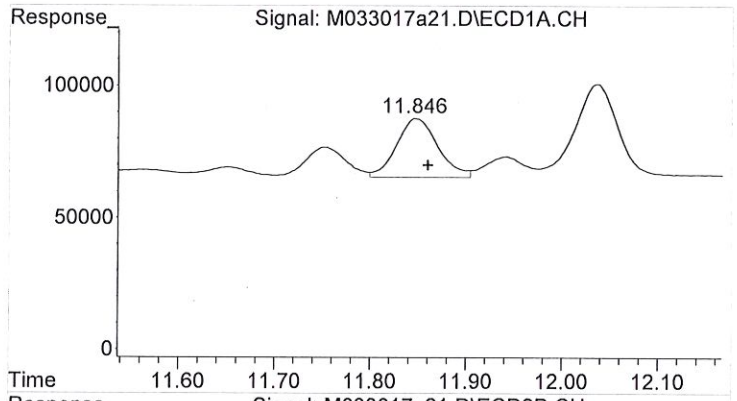

#2 1254-2

R.T.: 11.753 min
Delta R.T.: -0.018 min
Response: 11389
Conc: 26.50 pg/uL



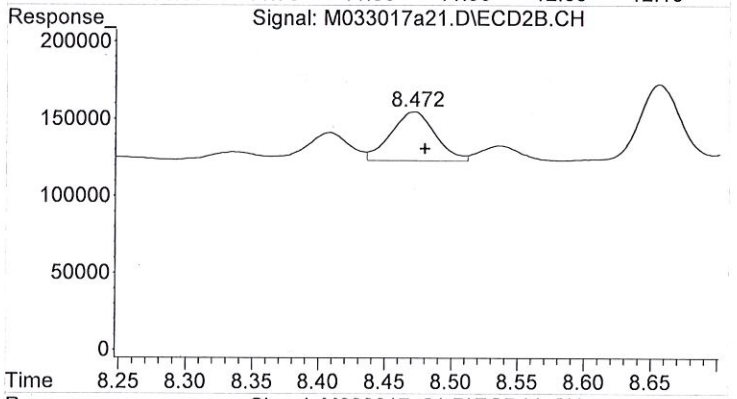

#2 1254-2

R.T.: 8.065 min
Delta R.T.: -0.005 min
Response: 65964
Conc: 39.45 pg/uL



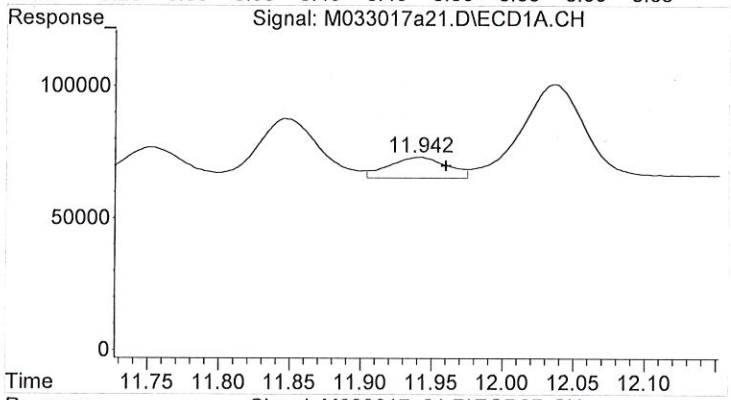

#3 1254-3

R.T.: 11.847 min
Delta R.T.: -0.013 min
Response: 22221
Conc: 25.31 pg/uL



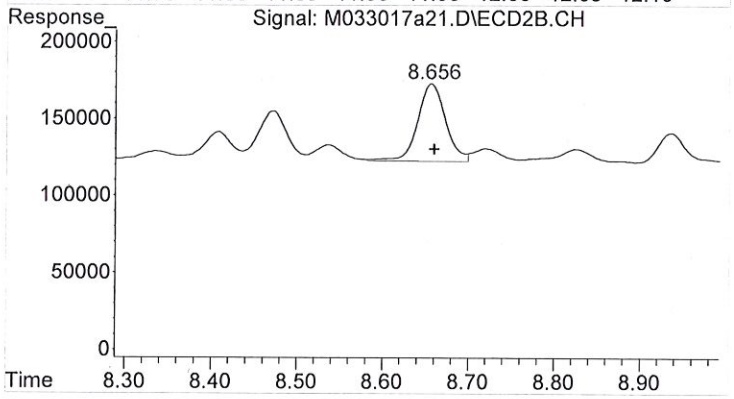

#3 1254-3

R.T.: 8.472 min
Delta R.T.: -0.008 min
Response: 31845
Conc: 28.17 pg/uL



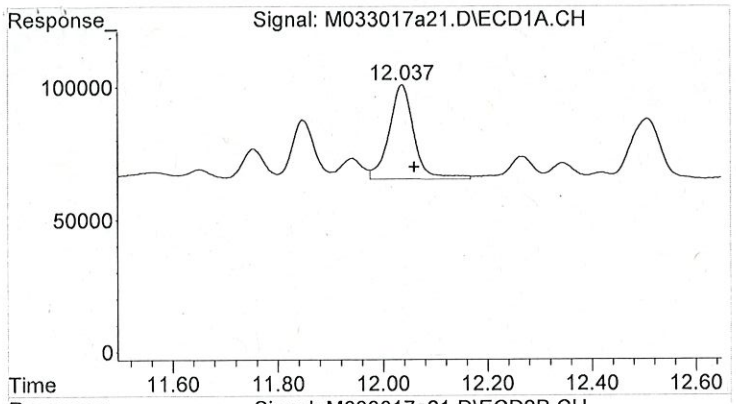

#4 1254-4

R.T.: 11.941 min
Delta R.T.: -0.019 min
Response: 7873
Conc: 29.47 pg/uL



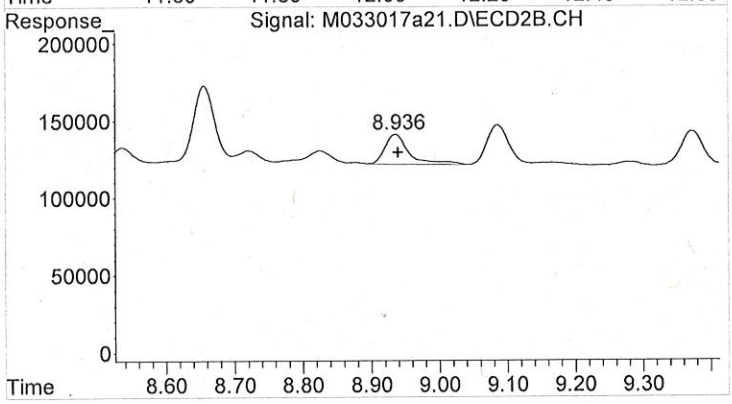

#4 1254-4

R.T.: 8.656 min
Delta R.T.: -0.004 min
Response: 50370
Conc: 26.08 pg/uL




#5 1254-5

R.T.: 12.036 min
Delta R.T.: -0.024 min
Response: 35465
Conc: 21.33 pg/uL




#5 1254-5

R.T.: 8.936 min
Delta R.T.: -0.004 min
Response: 19540
Conc: 24.44 pg/uL

# PCB Sample Results Summary

Sample.....: 17114000
Data File....: M032817a13.D
Project.....: OCE-009C
Matrix.....: ~~Wipe~~ PUF
Analyzed.....: 03/28/2017 21:51
Type.....: 0

Date Prepped...: 3/28/2017
ICAL Date.....: 03/30/2017
Prep Method....: 3541
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: 13

Instrument.....: Minerva
Amount Extracted.: 1 ~~wipe~~ PUF
Percent Solids...: NA
Final Volume.....: 2 mL
Dilution.....: 1x D0

Additional Info..: Sky Valley PCB PUF 2mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M033017PCB1242.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\M032817a13.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) | 6.98 | 6.99 | 2130860 | | 100 | 80 | 80 | %Rec | |
| 12 | 2.5 | 250 | dcb | 17.77 | 17.79 | 1207760 | | 100 | 82 | 82 | %Rec | |
| 14 | 2.5 | 250 | tmx (1) #2 | 4.80 | 4.80 | 3780400 | | 100 | 92 | 92 | %Rec | |
| 25 | 2.5 | 250 | dcb #2 | 13.28 | 13.28 | 2285410 | | 100 | 96 | 96 | %Rec | |
| 2 | 25 | 1000 | 1016 -1 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 3 | 25 | 1000 | 1016-2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 4 | 25 | 1000 | 1016-3 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 5 | 25 | 1000 | 1016-4 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 6 | 25 | 1000 | 1016-5 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 7 | 25 | 1000 | 1260-1 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 8 | 25 | 1000 | 1260-2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 9 | 25 | 1000 | 1260-3 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 10 | 25 | 1000 | 1260-4 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 11 | 25 | 1000 | 1260-5 | - | - | - | | - | - | 0.050 | ug (RL) | U |
| 15 | 25 | 1000 | 1016 -1 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 16 | 25 | 1000 | 1016-2 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 17 | 25 | 1000 | 1016-3 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 18 | 25 | 1000 | 1016-4 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 19 | 25 | 1000 | 1016-5 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 20 | 25 | 1000 | 1260-1 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 21 | 25 | 1000 | 1260-2 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 22 | 25 | 1000 | 1260-3 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 23 | 25 | 1000 | 1260-4 #2 | - | - | - | d | - | - | 0.050 | ug (RL) | U |
| 24 | 25 | 1000 | 1260-5 #2 | - | - | - | | - | - | 0.050 | ug (RL) | U |

| CAS# | Name | Avg | Unit | n | %RSD | Column RPD[2] |
|---|---|---|---|---|---|---|
| 12674112 | 1016 Column 1 | 0.050 | ug (RL) | 0 | NA | Results will be reported from Column 1 |
| 12674112 | 1016 Column 2 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 1 | 0.050 | ug (RL) | 0 | NA | |
| 11096825 | 1260 Column 2 | 0.050 | ug (RL) | 0 | NA | |

[1]'Amount' units are pg or pg/uL on column. [2]RPD (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 2017 DATA\M032817PCBDW\
Data File : M032817a13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 9:51 pm
Operator : DWOOD
Sample : 17114000
Misc : Sky Valley PCB PUF 2mL fv
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: Mar 30 16:31:21 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.982 | 4.799 | 2130860 | 3780398 | 80.401 | 91.698 |
| 12) S2 dcb | 17.771 | 13.281 | 1207759 | 2285412 | 81.863 | 95.759 |
| 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. d | N.D. 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. d | N.D. d |
| 8) L2 1260-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. 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.

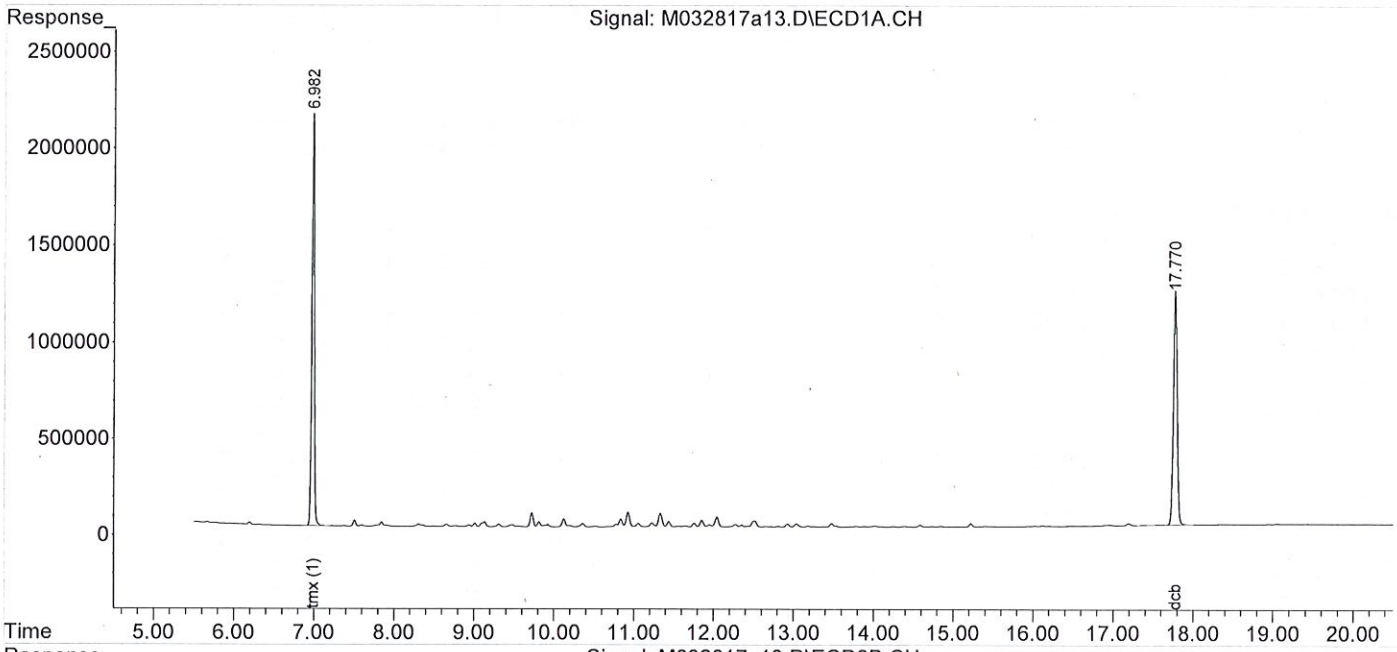
lw
3/31/17

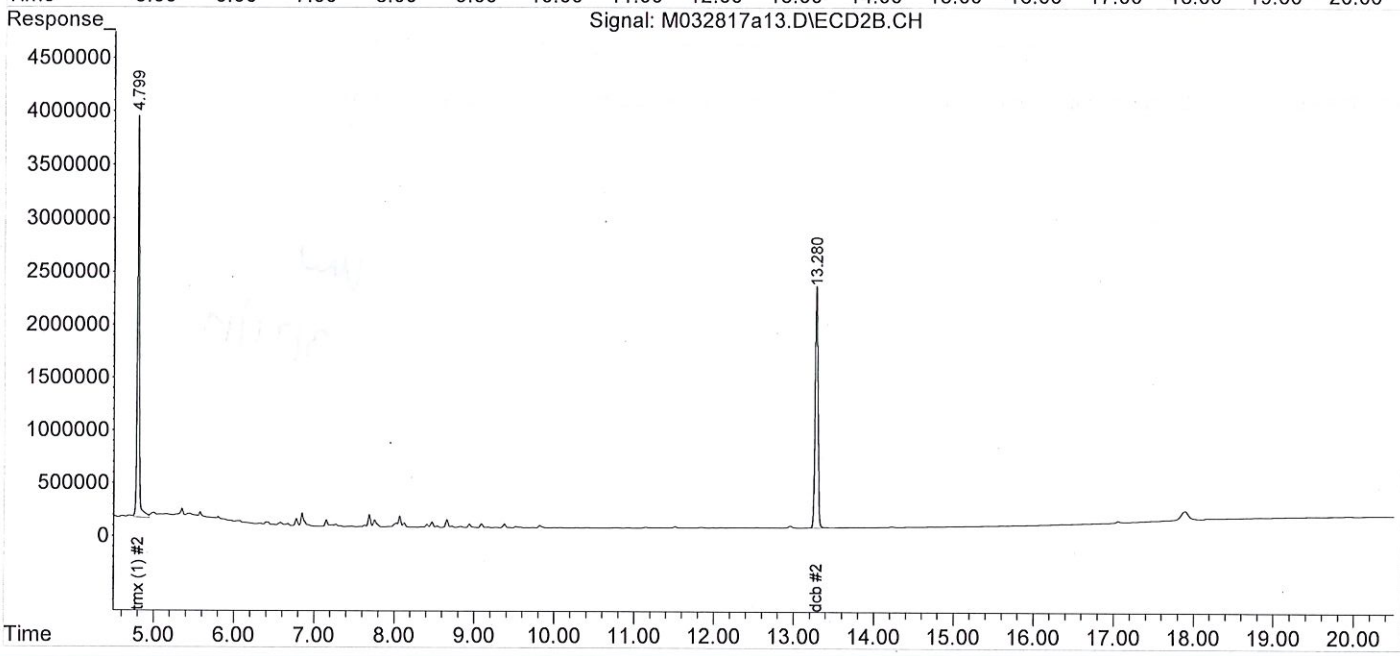
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 9:51 pm
Operator : DWOOD
Sample : 17114000
Misc : Sky Valley PCB PUF 2mL fv
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: Mar 30 16:31:21 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032817PCBDW\
Data File : M032817a13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Mar 2017 21:51 pm
Operator : DWOOD
Sample : 17114000
Misc : PCB PUF IDOC 2mL fv
ALS Vial : 0 (Sig #1); 13 (Sig #2) Sample Multiplier: 1

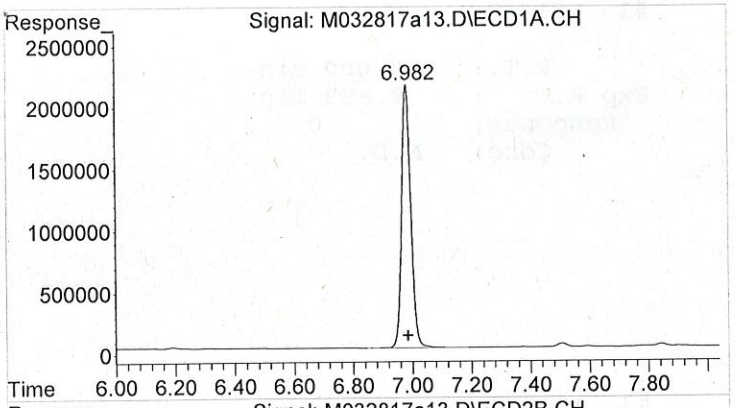
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 08:36:51 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | | |
| 1) S2 tmx (1) | 6.982 | 4.799 | 2130860 | 3780398 | 80.401 | 91.698 |
| 12) S2 dcb | 17.771 | 13.281 | 1207759 | 2285412 | 81.863 | 95.759 |
| Target Compounds | | | | | | |
| 2) L1 1016 -1 | 7.592 | 5.350 | 6723 | 104404 | 5.821 | 124.929 # |
| 3) L1 1016-2 | 8.655 | 5.802 | 10365 | 45662 | 5.911 | 29.021 # |
| 4) L1 1016-3 | 9.307 | 6.420 | 12920 | 23575 | 6.857 | 11.189 # |
| 5) L1 1016-4 | 9.476 | 6.576 | 8948 | 24793 | 9.441 | 20.132 # |
| 6) L1 1016-5 | 0.000 | 6.664 | 0 | 16847 | N.D. | 19.615 # |
| Sum 1016 -1 | | | 38955 | 215281 | 28.030 | 204.887 |
| Average 1016 -1 | | | | | 7.007 | 40.977 |
| 7) L2 1260-1 | 12.510 | 8.938 | 31111 | 31933 | 15.411 | 14.750 |
| 8) L2 1260-2 | 12.927 | 9.375 | 14851 | 32910 | N.D. | 11.692 # |
| 9) L2 1260-3 | 13.477 | 9.818 | 17195 | 22666 | 2.518 | 12.809 # |
| 10) L2 1260-4 | 0.000 | 10.919 | 0 | 3047 | N.D. | 2.988 # |
| 11) L2 1260-5 | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| Sum 1260-1 | | | 48306 | 90550 | 17.875 | 42.239 |
| Average 1260-1 | | | | | 8.938 | 10.560 |

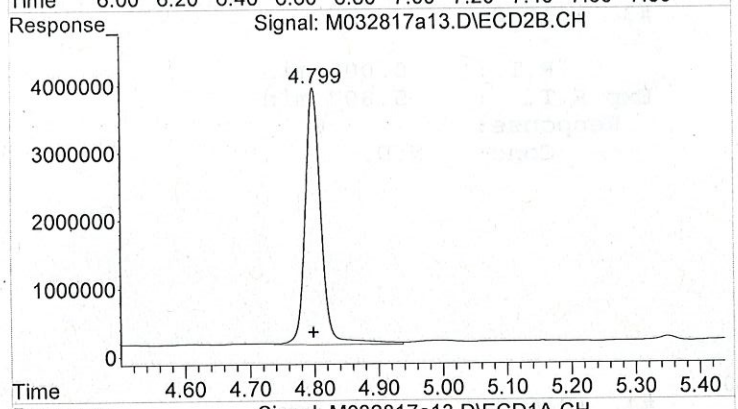
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

hw
3/30/17



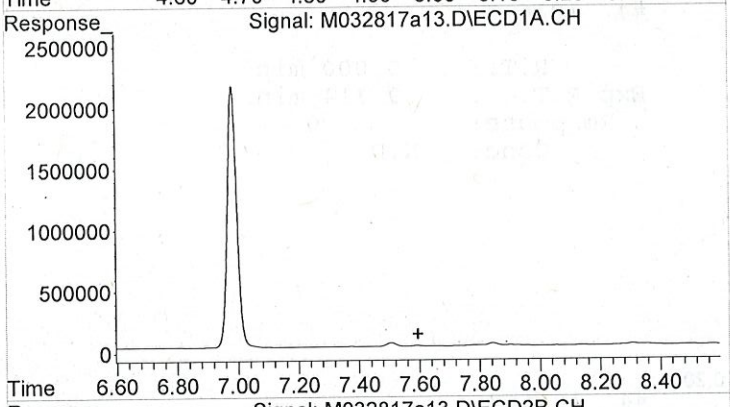

#1 tmx (1)

R.T.: 6.982 min
Delta R.T.: -0.004 min
Response: 2130860
Conc: 80.40 pg/uL



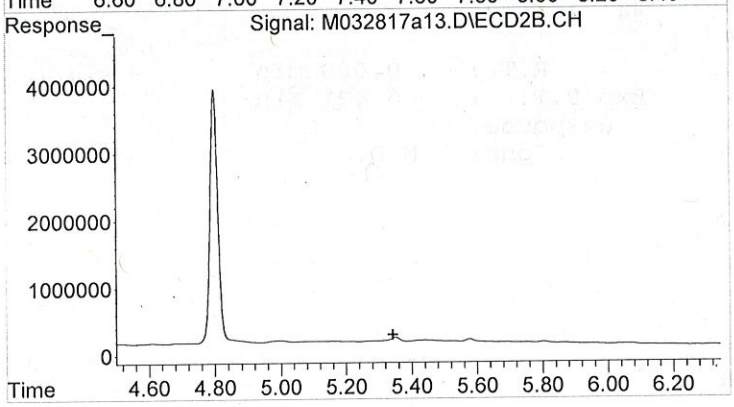

#1 tmx (1)

R.T.: 4.799 min
Delta R.T.: 0.000 min
Response: 3780398
Conc: 91.70 pg/uL



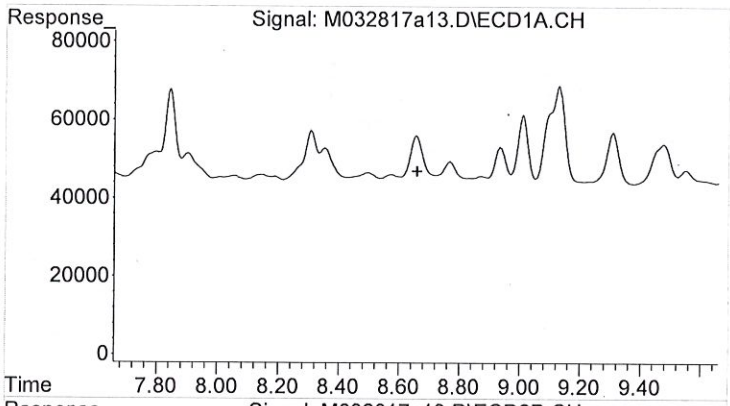

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



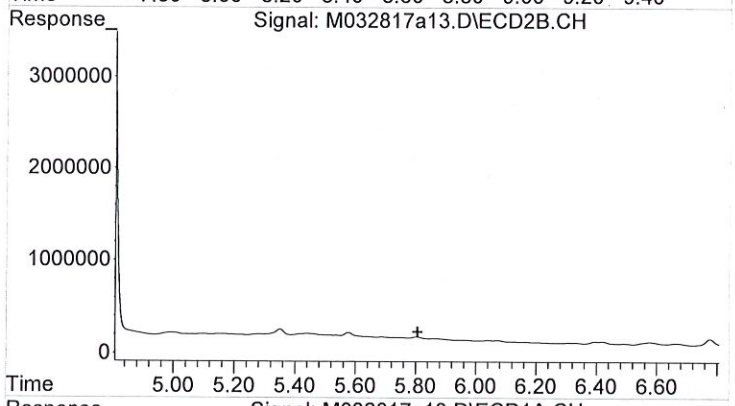

#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



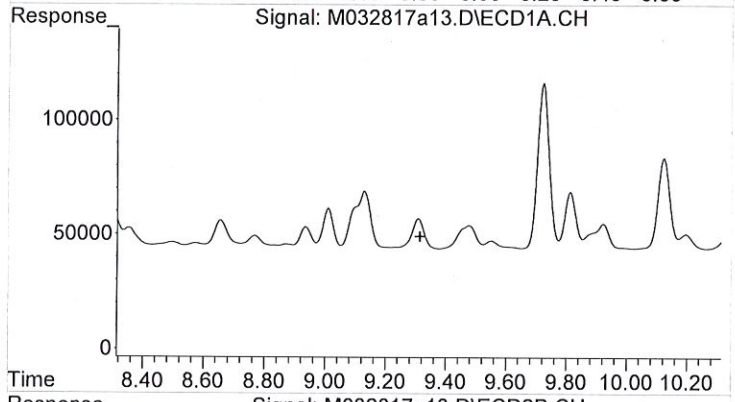

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



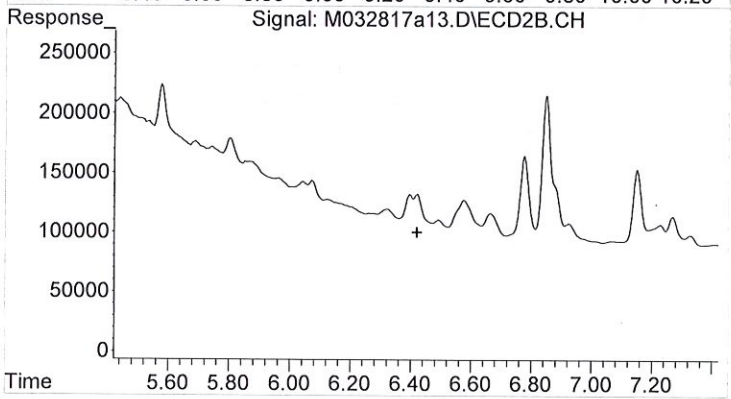

#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



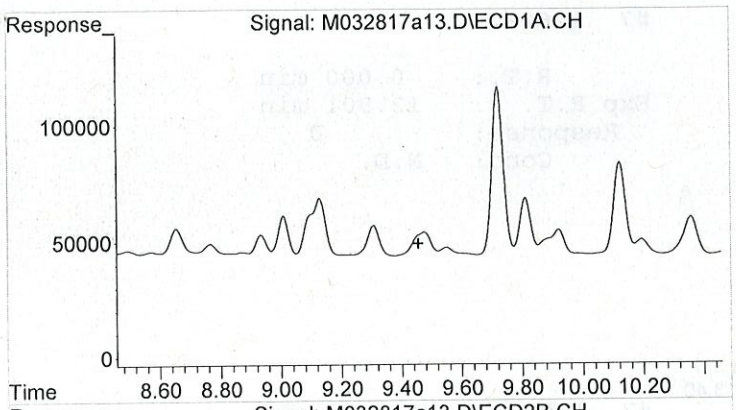

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



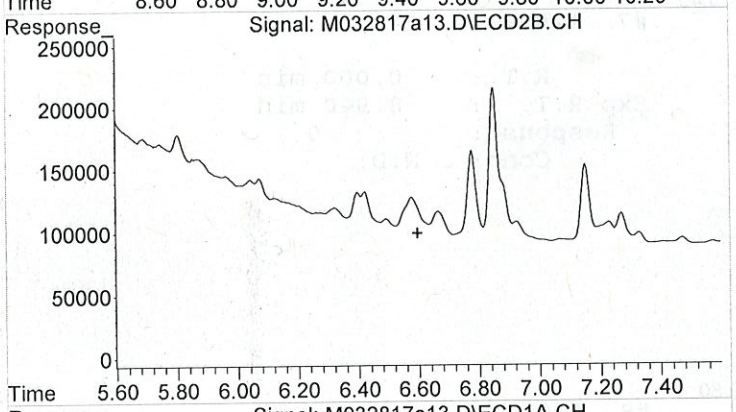

#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



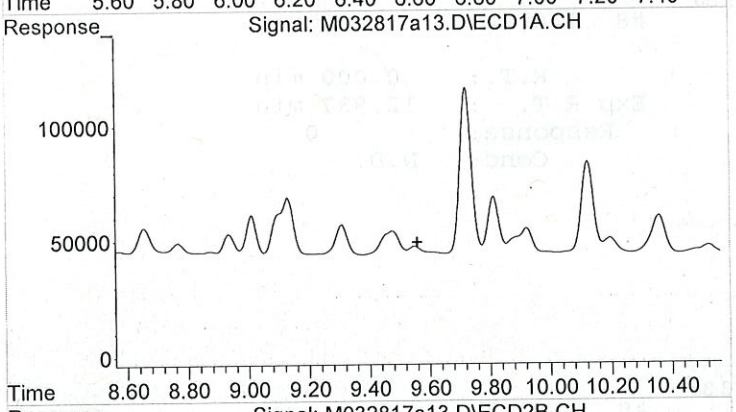

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



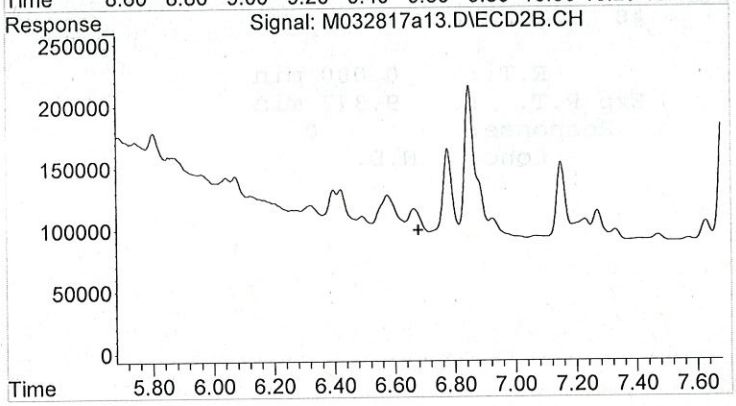

#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



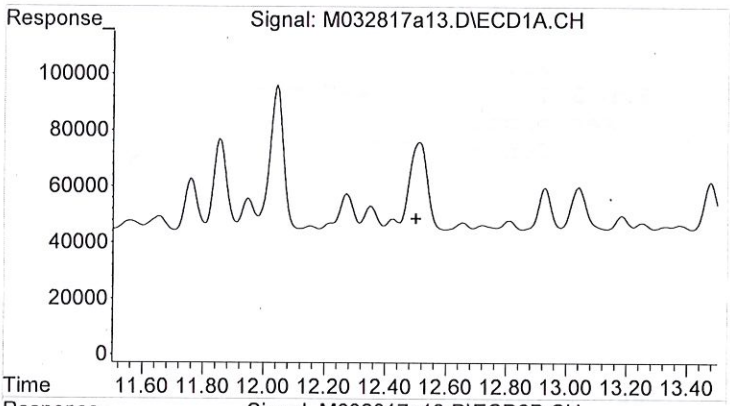

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



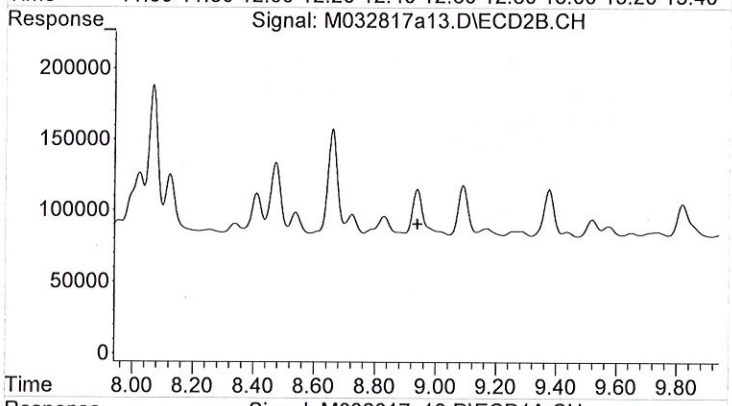

#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



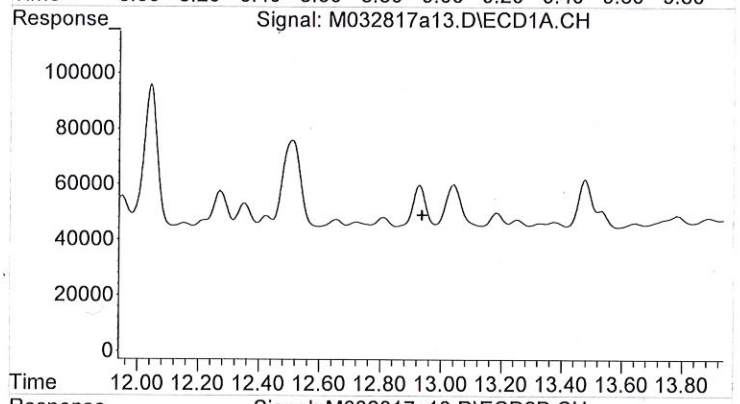

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.501 min
Response: 0
Conc: N.D.



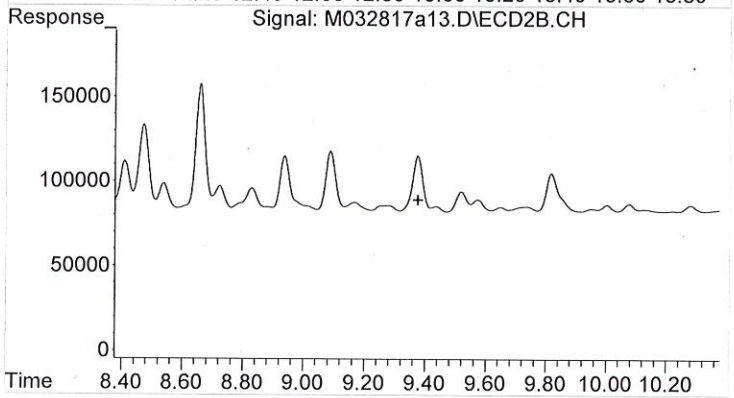

#7 1260-1

R.T.: 0.000 min
Exp R.T. : 8.940 min
Response: 0
Conc: N.D.



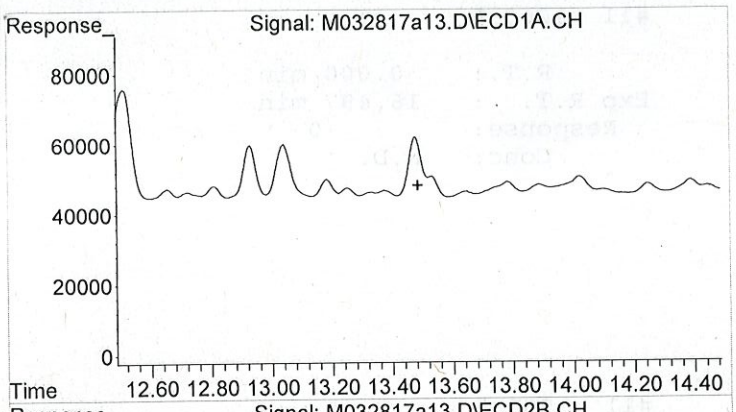

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 12.937 min
Response: 0
Conc: N.D.



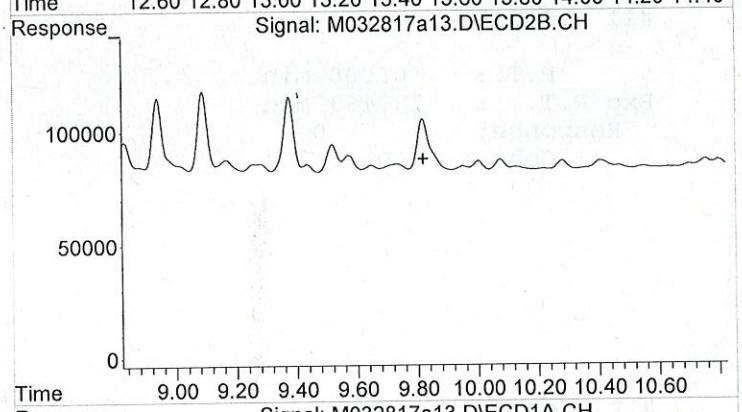

#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.377 min
Response: 0
Conc: N.D.



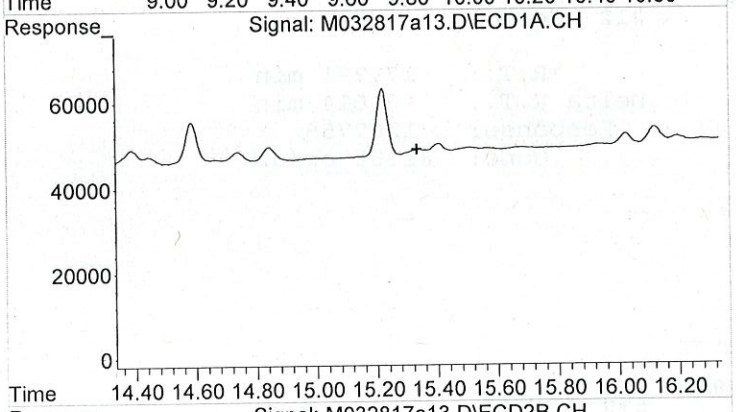

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.486 min
Response: 0
Conc: N.D.



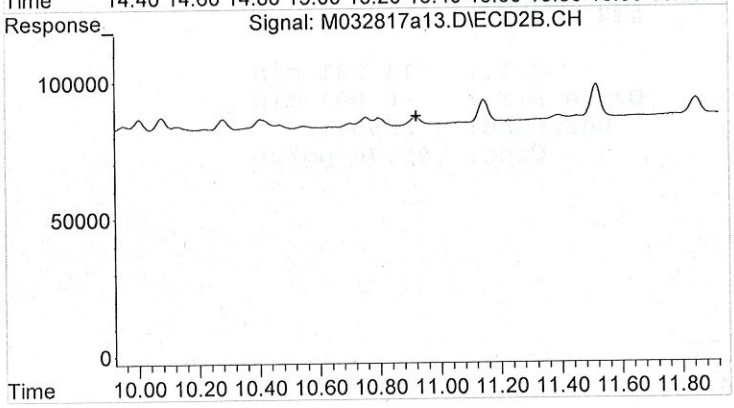

#9 1260-3

R.T.: 0.000 min
Exp R.T. : 9.821 min
Response: 0
Conc: N.D.



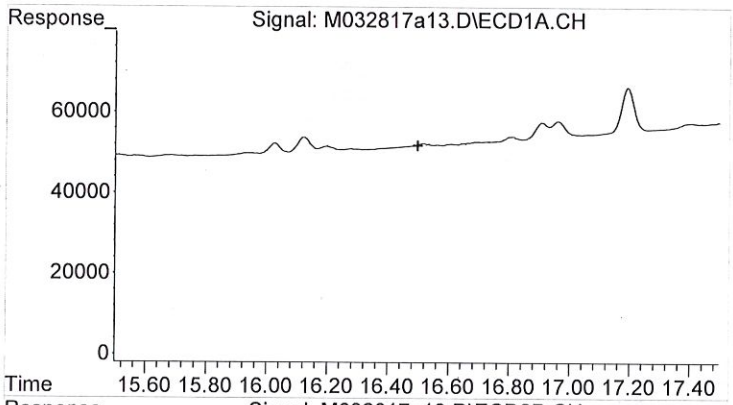

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.335 min
Response: 0
Conc: N.D.



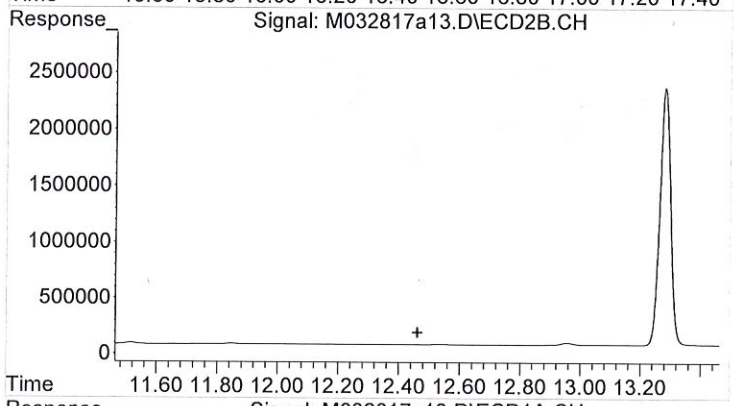

#10 1260-4

R.T.: 0.000 min
Exp R.T. : 10.922 min
Response: 0
Conc: N.D.



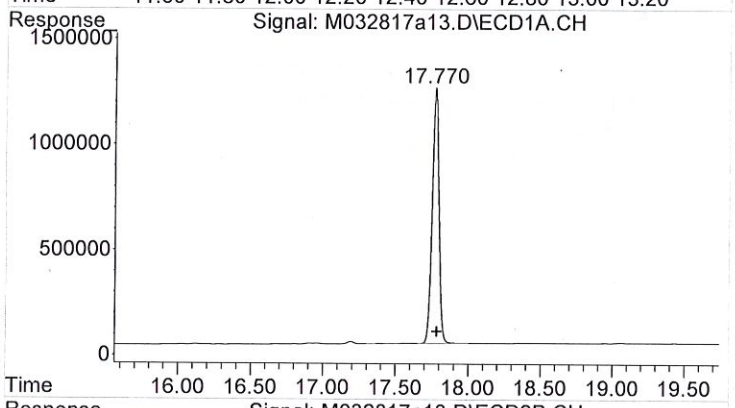

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



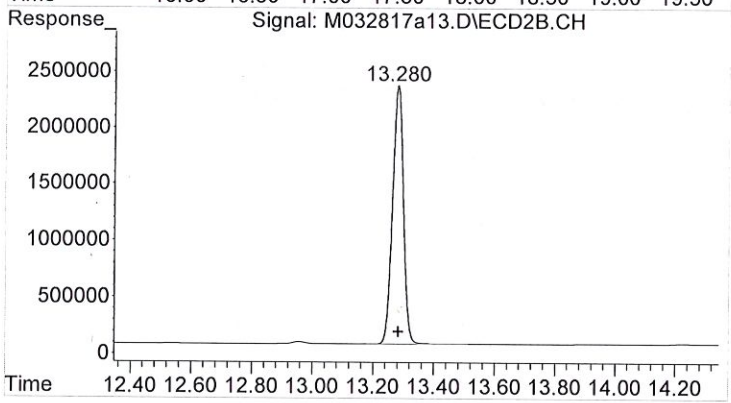

#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.




#12 dcb

R.T.: 17.771 min
Delta R.T.: -0.014 min
Response: 1207759
Conc: 81.86 pg/uL




#12 dcb

R.T.: 13.281 min
Delta R.T.: -0.003 min
Response: 2285412
Conc: 95.76 pg/uL

# PCB Sample Results Summary

Sample.....: 17114000
Data File....: M033017a22.D
Project.....: OCE-009C
Matrix.....: ~~42 = Wipe~~ PUF
Analyzed.....: 03/30/2017 19:35
Type.....: 0
Additional Info..: Sky Valley PCB PUF 2mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M033017PCB1254.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dw\M033017a22.D

Date Prepped...: 3/28/2017
ICAL Date.....: 03/30/2017
Prep Method....: 3541
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: na

Instrument.....: Minerva
Amount Extracted.: 1 ~~wipe~~ m PUF
Percent Solids...: NA
Final Volume.....: 2 mL
Dilution.....: 1x D0

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 | 25 | 1000 | 1254 -1 | 11.33 | 11.34 | 67003 | - | 55 | 0.11 | ug | |
| 2 | 25 | 1000 | 1254-2 | 11.76 | 11.77 | 15800 | - | 40 | 0.080 | ug | |
| 3 | 25 | 1000 | 1254-3 | 11.85 | 11.86 | 30290 | - | 37 | 0.074 | ug | |
| 4 | 25 | 1000 | 1254-4 | 11.94 | 11.96 | 9899 | - | 38 | 0.077 | ug | |
| 5 | 25 | 1000 | 1254-5 | 12.04 | 12.06 | 47582 | - | 31 | 0.063 | ug | |
| 7 | 25 | 1000 | 1254 -1 #2 | 7.68 | 7.69 | 108778 | - | 83 | 0.17 | ug | |
| 8 | 25 | 1000 | 1254-2 #2 | 8.07 | 8.07 | 93799 | - | 57 | 0.11 | ug | |
| 9 | 25 | 1000 | 1254-3 #2 | 8.47 | 8.48 | 46311 | - | 41 | 0.081 | ug | |
| 10 | 25 | 1000 | 1254-4 #2 | 8.66 | 8.66 | 68599 | - | 35 | 0.070 | ug | |
| 11 | 25 | 1000 | 1254-5 #2 | 8.94 | 8.94 | 27328 | - | 35 | 0.069 | ug | |

| CAS# | Name | Avg | Unit | n | %RSD | Column RPD[2] | |
|---|---|---|---|---|---|---|---|
| 11097691 | 1254 Column 1 | 0.080 | ug | 5 | 22 % | | Results will be reported from Column 1 |
| 11097691 | 1254 Column 2 | 0.10 | ug | 5 | 41 % | 22 % | |

[1]'Amount' units are pg or pg/uL on column. [2]RPD (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 2017 DATA\M033017PCB1254dw\
Data File : M033017a22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 19:35 pm
Operator : DWOOD
Sample : 17114000
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 20 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:57:51 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1254 -1 | 11.328 | 7.684 | 67003 | 108778 | 54.577 | 83.295 # |
| 2) L1 1254-2 | 11.755 | 8.065 | 15800 | 93799 | 39.875 | 56.690 # |
| 3) L1 1254-3 | 11.850 | 8.471 | 30290 | 46311 | 37.100 | 40.602 |
| 4) L1 1254-4 | 11.942 | 8.657 | 9899 | 68599 | 38.282 | 34.776 |
| 5) L1 1254-5 | 12.038 | 8.937 | 47582 | 27328 | 31.250 | 34.740 |
| Sum 1254 -1 | | | 170574 | 344815 | 201.084 | 250.102 |
| Average 1254 -1 | | | | | 40.217 | 50.020 |

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

mw
3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dw\
Data File : M033017a22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 19:35 pm
Operator : DWOOD
Sample : 17114000
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 20 (Sig #2) Sample Multiplier: 1

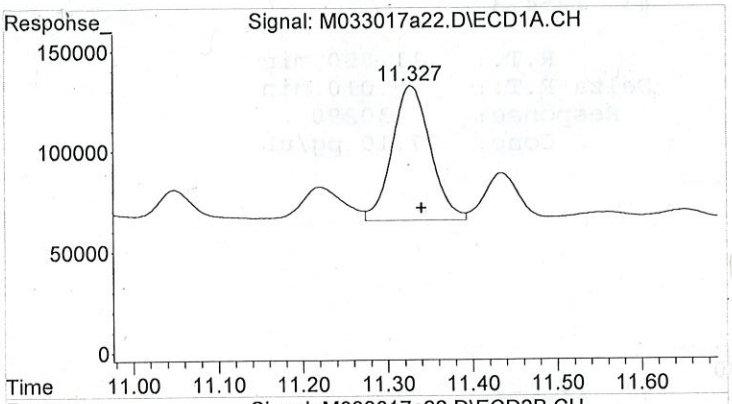
Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Mar 31 07:57:51 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1254 -1 | 11.328 | 7.684 | 67003 | 108778 | 54.577 | 83.295 # |
| 2) L1 1254-2 | 11.755 | 8.065 | 15800 | 93799 | 39.875 | 56.690 # |
| 3) L1 1254-3 | 11.850 | 8.471 | 30290 | 46311 | 37.100 | 40.602 |
| 4) L1 1254-4 | 11.942 | 8.657 | 9899 | 68599 | 38.282 | 34.776 |
| 5) L1 1254-5 | 12.038 | 8.937 | 47582 | 27328 | 31.250 | 34.740 |
| Sum 1254 -1 | | | 170574 | 344815 | 201.084 | 250.102 |
| Average 1254 -1 | | | | | 40.217 | 50.020 |

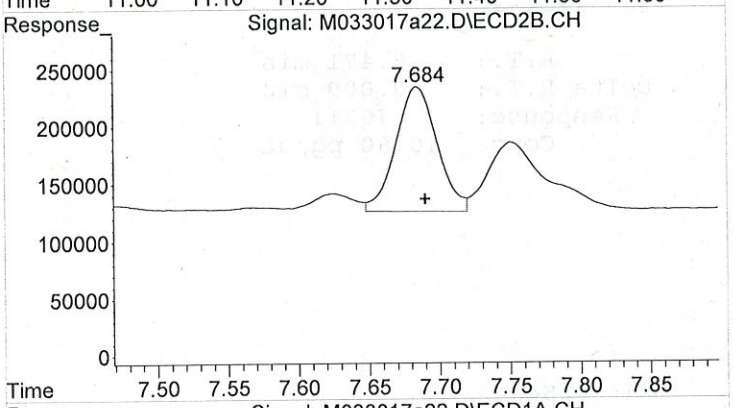
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

hw
3/31/17



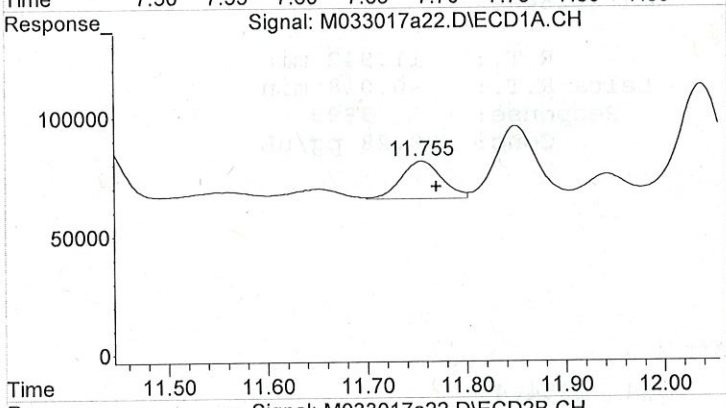

#1 1254 -1

R.T.: 11.328 min
Delta R.T.: -0.012 min
Response: 67003
Conc: 54.58 pg/uL



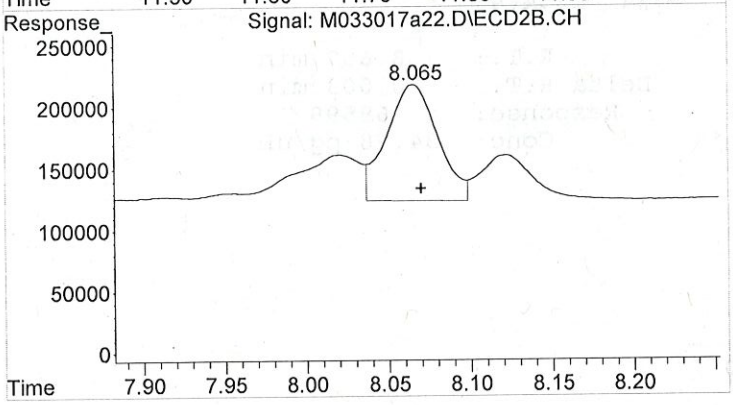

#1 1254 -1

R.T.: 7.684 min
Delta R.T.: -0.006 min
Response: 108778
Conc: 83.29 pg/uL



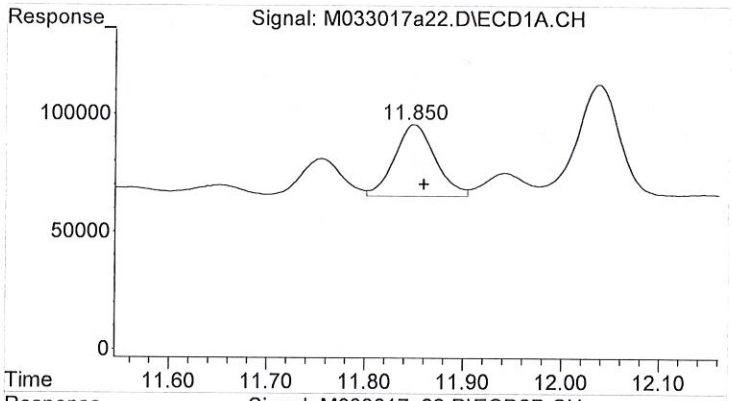

#2 1254-2

R.T.: 11.755 min
Delta R.T.: -0.015 min
Response: 15800
Conc: 39.87 pg/uL



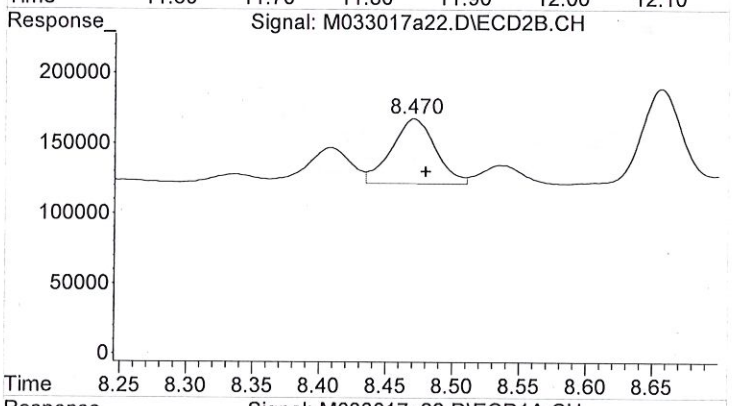

#2 1254-2

R.T.: 8.065 min
Delta R.T.: -0.005 min
Response: 93799
Conc: 56.69 pg/uL



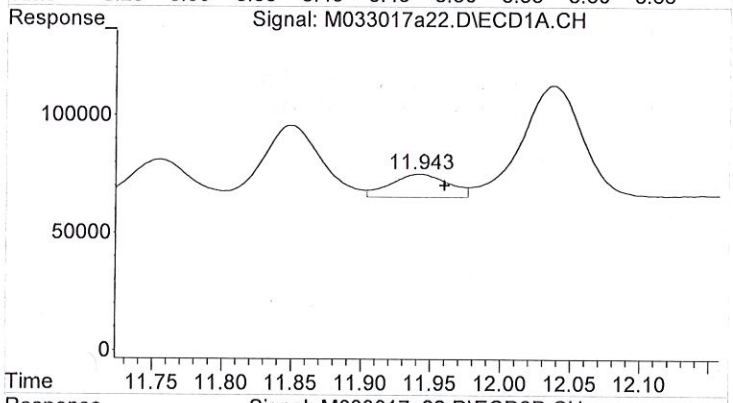

#3 1254-3

R.T.: 11.850 min
Delta R.T.: -0.010 min
Response: 30290
Conc: 37.10 pg/uL



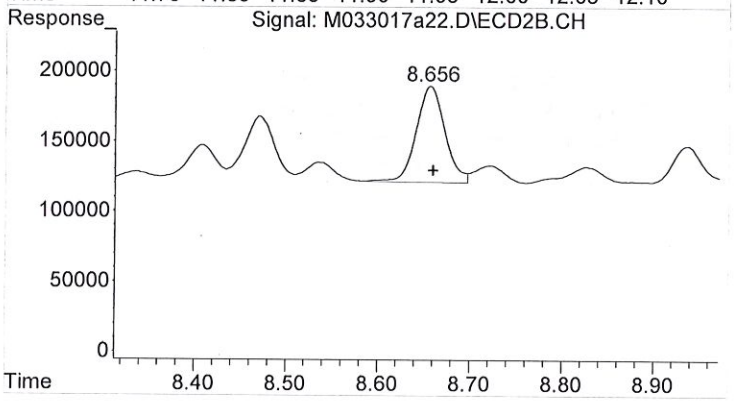

#3 1254-3

R.T.: 8.471 min
Delta R.T.: -0.009 min
Response: 46311
Conc: 40.60 pg/uL



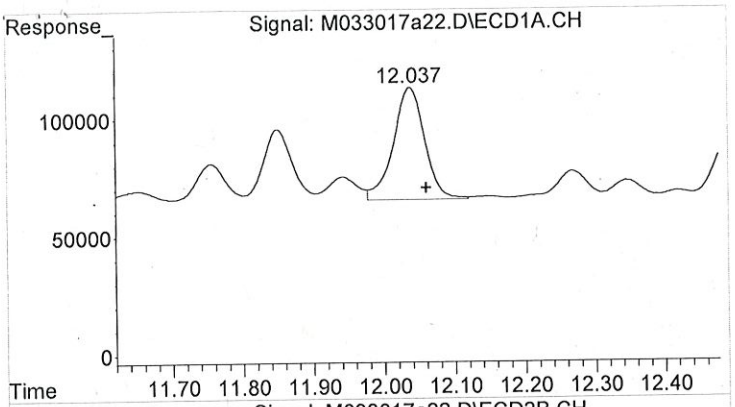

#4 1254-4

R.T.: 11.942 min
Delta R.T.: -0.018 min
Response: 9899
Conc: 38.28 pg/uL



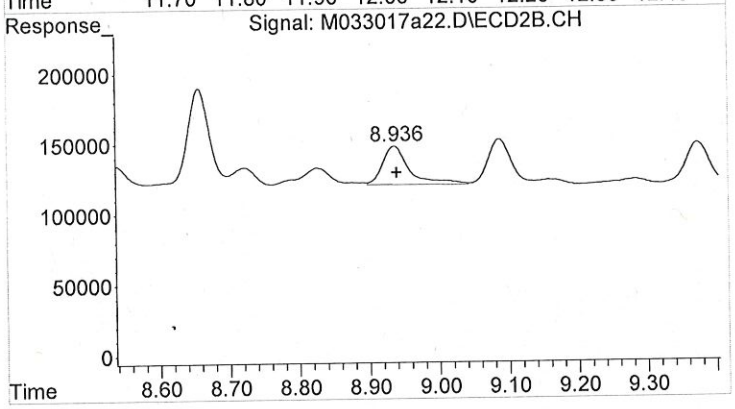

#4 1254-4

R.T.: 8.657 min
Delta R.T.: -0.003 min
Response: 68599
Conc: 34.78 pg/uL




#5 1254-5

R.T.: 12.038 min
Delta R.T.: -0.022 min
Response: 47582
Conc: 31.25 pg/uL




#5 1254-5

R.T.: 8.937 min
Delta R.T.: -0.003 min
Response: 27328
Conc: 34.74 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1242dw\
Data File : M033017a22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 19:35 pm
Operator : DWOOD
Sample : 17114000
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 20 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 31 07:56:22 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1242 -1 | 8.304 | 5.349 | 10278 | 101869 | 9.868 | 160.417 # |
| 2) L1 1242-2 | 8.652 | 5.801 | 9767 | 43006 | 12.637 | 35.465 # |
| 3) L1 1242-3 | 9.124 | 6.068 | 21709 | 21140 | 17.287 | 36.097 # |
| 4) L1 1242-4 | 9.304 | 6.415 | 10698 | 22929 | 10.487 | 15.808 # |
| 5) L1 1242-5 | 9.470 | 6.574 | 8106 | 20282 | 15.463 | 23.241 # |
| Sum 1242 -1 | | | 60559 | 209226 | 65.743 | 271.028 |
| Average 1242 -1 | | | | | 13.149 | 54.206 |

L-25

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

3/31/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1242dw\
Data File : M033017a22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 19:35 pm
Operator : DWOOD
Sample : 17114000
Misc : Sky Valley PCB PUF 2mL fv
ALS Vial : 0 (Sig #1); 20 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Mar 31 07:56:22 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1242.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Thu Mar 30 14:29:30 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

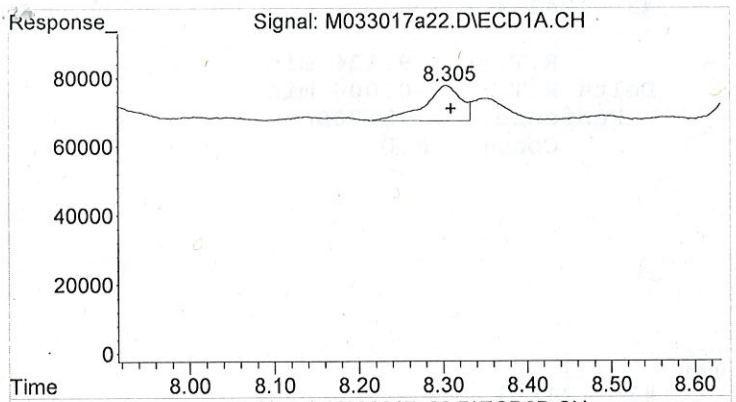
Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg/uL | pg/uL |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1) L1 1242 -1 | 8.304 | 5.349 | 10278 | 101869 | 9.868 | 160.417 # |
| 2) L1 1242-2 | 8.652 | 5.801 | 9767 | 43006 | 12.637 | 35.465 # |
| 3) L1 1242-3 | 9.124 | 6.068 | 21709 | 21140 | 17.287 | 36.097 # |
| 4) L1 1242-4 | 9.304 | 6.415 | 10698 | 22929 | 10.487 | 15.808 # |
| 5) L1 1242-5 | 9.470 | 6.574 | 8106 | 20282 | 15.463 | 23.241 # |
| Sum 1242 -1 | | | 60559 | 209226 | 65.743 | 271.028 |
| Average 1242 -1 | | | | | 13.149 | 54.206 |

<25

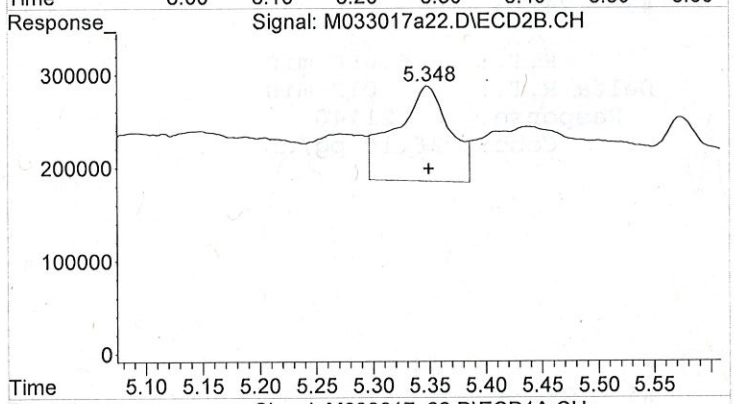
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ww
3/31/17



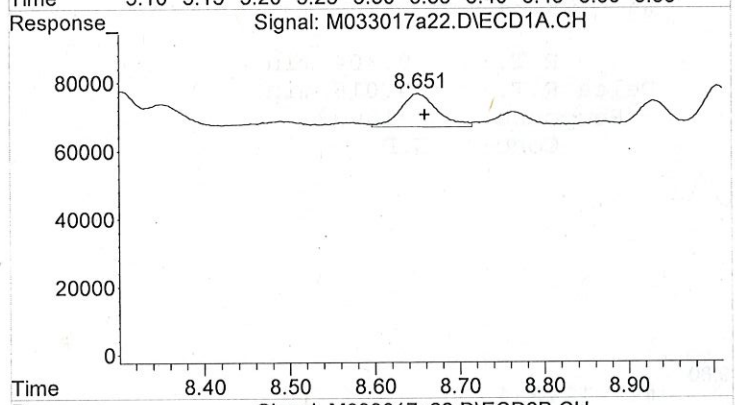

#1 1242 -1

R.T.: 8.304 min
Delta R.T.: -0.006 min
Response: 10278
Conc: N.D.



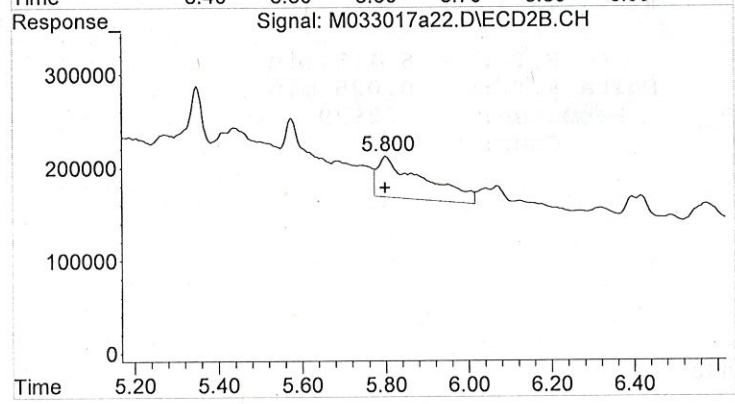

#1 1242 -1

R.T.: 5.349 min
Delta R.T.: -0.001 min
Response: 101869
Conc: 160.42 pg/uL



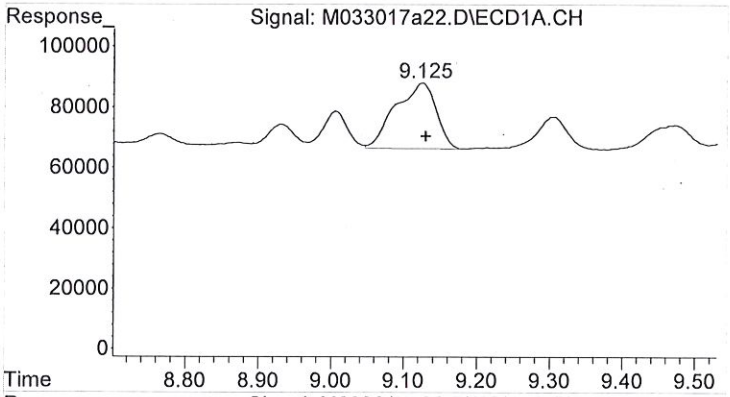

#2 1242-2

R.T.: 8.652 min
Delta R.T.: -0.008 min
Response: 9767
Conc: N.D.



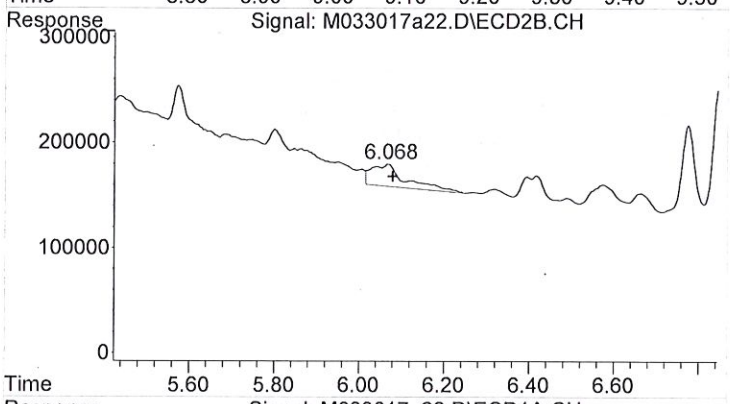

#2 1242-2

R.T.: 5.801 min
Delta R.T.: 0.000 min
Response: 43006
Conc: 35.47 pg/uL



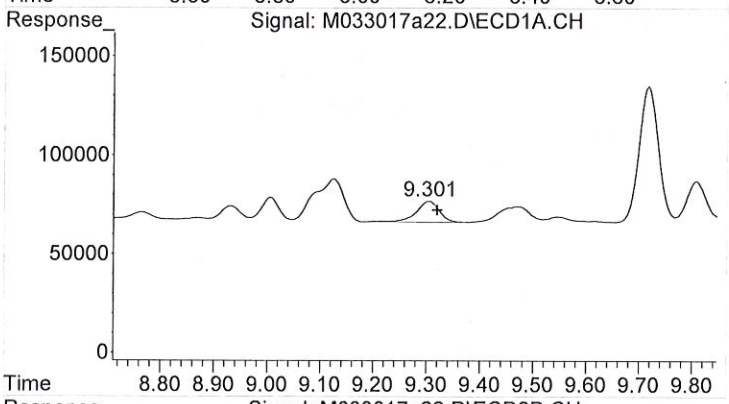

#3 1242-3

R.T.: 9.124 min
Delta R.T.: -0.006 min
Response: 21709
Conc: N.D.



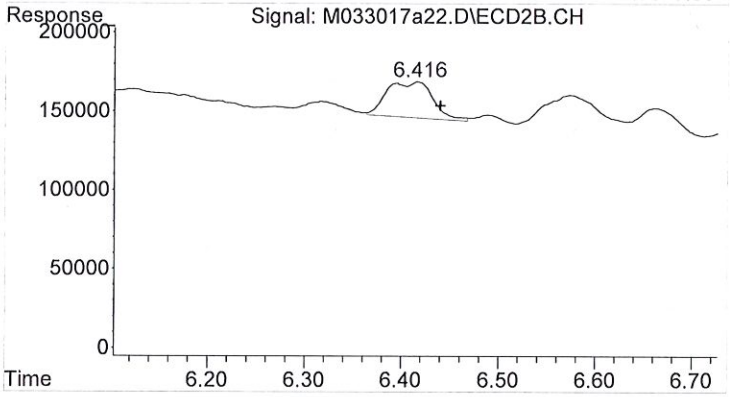

#3 1242-3

R.T.: 6.068 min
Delta R.T.: -0.012 min
Response: 21140
Conc: 36.10 pg/uL



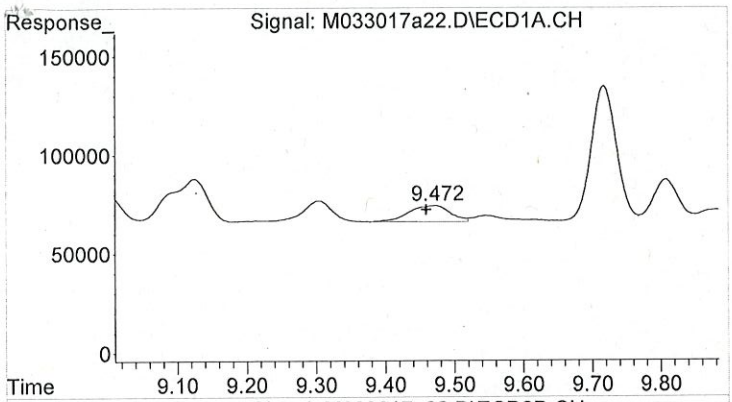

#4 1242-4

R.T.: 9.304 min
Delta R.T.: -0.016 min
Response: 10698
Conc: N.D.



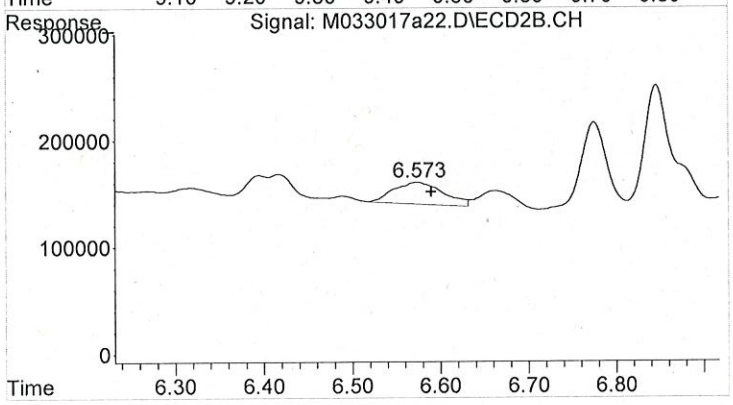

#4 1242-4

R.T.: 6.415 min
Delta R.T.: -0.025 min
Response: 22929
Conc: N.D.




#5 1242-5

R.T.: 9.470 min
Delta R.T.: 0.010 min
Response: 8106
Conc: N.D.




#5 1242-5

R.T.: 6.574 min
Delta R.T.: -0.016 min
Response: 20282
Conc: N.D.