

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93921.D\ECD1A.CH Vial: 25  
 Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93921.D\ECD2B.CH  
 Acq On : 28 Oct 2010 6:20 pm Operator: vinced  
 Sample : ja58900-7 Inst : gcef  
 Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 4 11:12 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
 Title : GC/ECD- PCB  
 Last Update : Wed Oct 27 15:03:37 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
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## System Monitoring Compounds

1) S Tetrachloro-m-xy	3.19	3.15	617163	790984	40.640	41.858
Spiked Amount	40.000		Recovery	=	101.60%	104.64%
51) S Decachlorobiphen	11.61	12.08	834561	1137215	49.049	53.282
Spiked Amount	40.000		Recovery	=	122.62%	133.20%

## Target Compounds

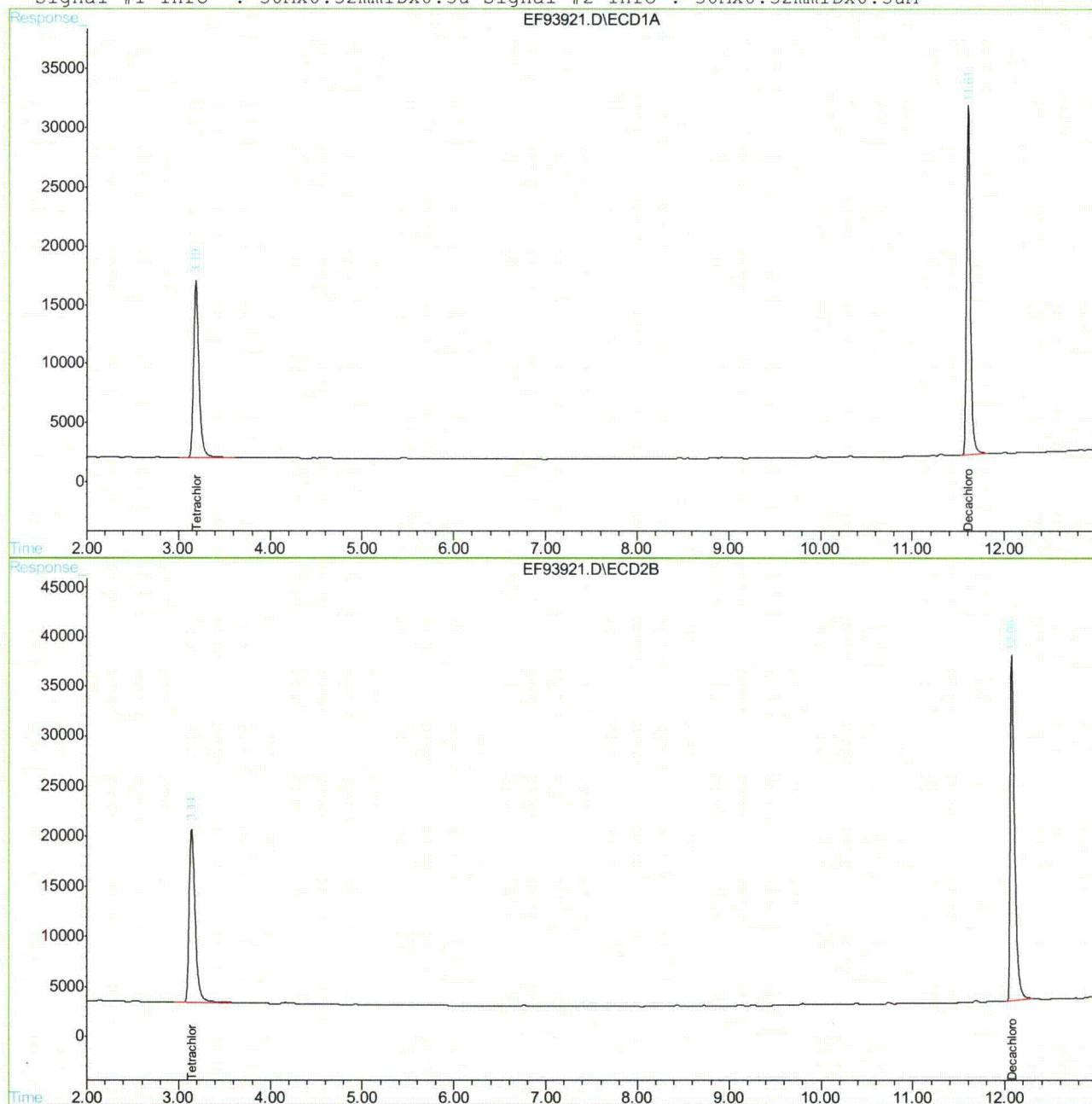
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 EF93921.D PCB4061.M Thu Nov 04 11:12:22 2010 GCEF

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93921.D\ECD1A.CH Vial: 25  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93921.D\ECD2B.CH  
Acq On : 28 Oct 2010 6:20 pm Operator: vinned  
Sample : ja58900-7 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 11:12 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Wed Oct 27 15:03:37 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



EF93921.D PCB4061.M

Thu Nov 04 11:12:23 2010

GCEF

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93922.D\ECD1A.CH Vial: 26  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93922.D\ECD2B.CH  
Acq On : 28 Oct 2010 6:37 pm Operator: vinced  
Sample : ja58900-8 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 11:12 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Wed Oct 27 15:03:37 2010  
Response via : Initial Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	3.19	3.14	562568	716718	37.045	37.928
Spiked Amount	40.000		Recovery	=	92.61%	94.82%
51) S Decachlorobiphen	11.61	12.08	770997	1048301	45.313	49.116
Spiked Amount	40.000		Recovery	=	113.28%	122.79%

Target Compounds

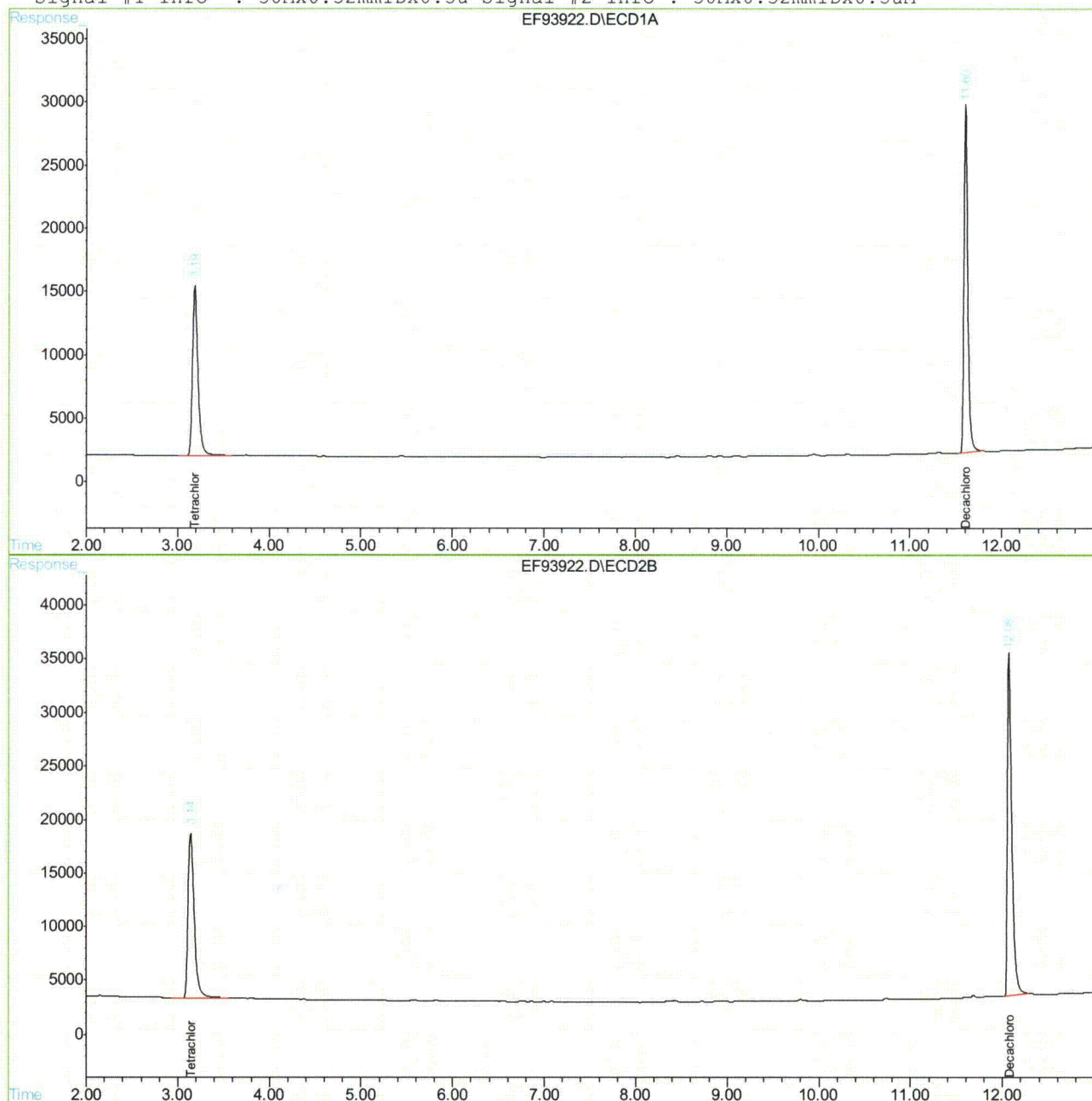
-----  
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
EF93922.D PCB4061.M Thu Nov 04 11:12:45 2010 GCEF

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93922.D\ECD1A.CH Vial: 26  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93922.D\ECD2B.CH  
Acq On : 28 Oct 2010 6:37 pm Operator: vinced  
Sample : ja58900-8 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 11:12 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Wed Oct 27 15:03:37 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



10.1.45 10

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93923.D\ECD1A.CH Vial: 27  
 Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93923.D\ECD2B.CH  
 Acq On : 28 Oct 2010 6:54 pm Operator: vinced  
 Sample : ja58900-9 Inst : gcef  
 Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 4 11:12 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
 Title : GC/ECD- PCB  
 Last Update : Wed Oct 27 15:03:37 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	3.19	3.14	600057	770865	39.514	40.793
Spiked Amount	40.000		Recovery	=	98.79%	101.98%
51) S Decachlorobiphen	11.60	12.08	798114	1077298	46.907	50.474
Spiked Amount	40.000		Recovery	=	117.27%	126.18%

Target Compounds

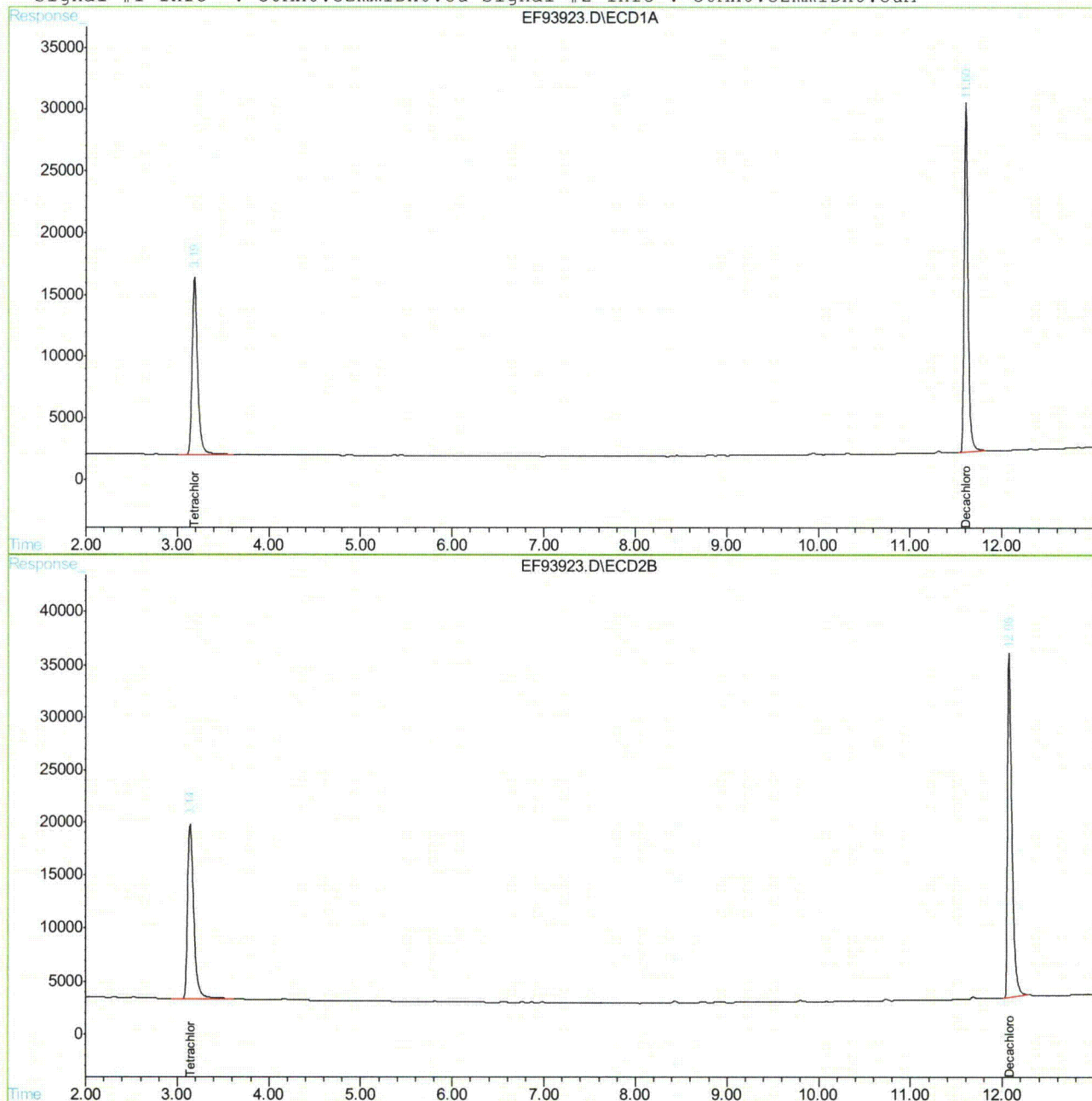
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 EF93923.D PCB4061.M Thu Nov 04 11:13:08 2010 GCEF

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93923.D\ECD1A.CH Vial: 27  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93923.D\ECD2B.CH  
Acq On : 28 Oct 2010 6:54 pm Operator: vinced  
Sample : ja58900-9 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 11:12 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Wed Oct 27 15:03:37 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



EF93923.D PCB4061.M

Thu Nov 04 11:13:08 2010

GCEF

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93924.D\ECD1A.CH Vial: 28  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93924.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:12 pm Operator: vinced  
Sample : ja58900-10 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 11:15 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Wed Oct 27 15:03:37 2010  
Response via : Initial Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	3.18	3.14	551883	708360	36.342	37.485
Spiked Amount	40.000		Recovery	=	90.85%	93.71%
51) S Decachlorobiphen	11.61	12.08	797859	1104017	46.892	51.726
Spiked Amount	40.000		Recovery	=	117.23%	129.32%

Target Compounds

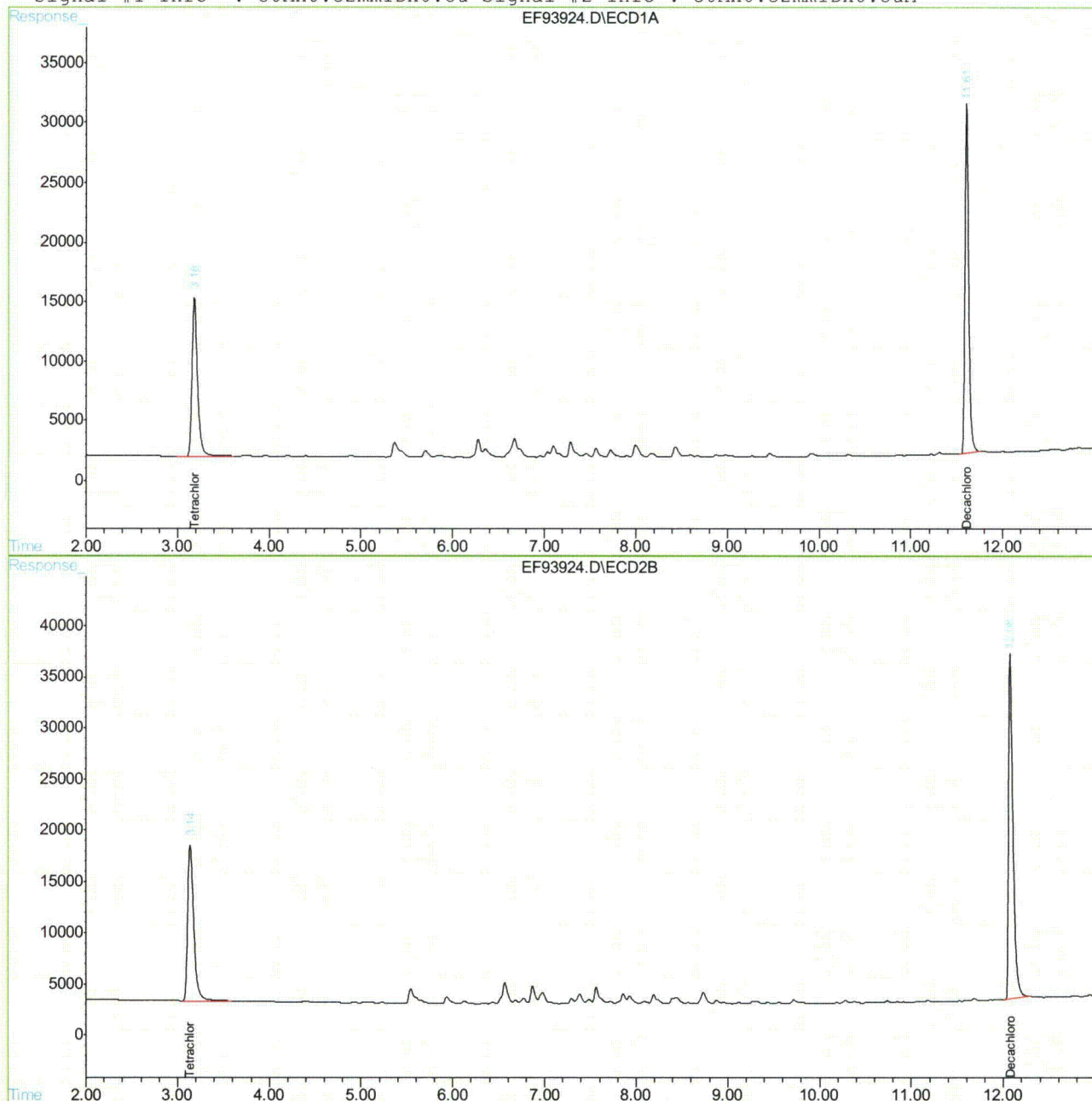
-----  
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
EF93924.D PCB4061.M Thu Nov 04 11:15:51 2010 GCEF

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93924.D\ECD1A.CH Vial: 28  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93924.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:12 pm Operator: vinced  
Sample : ja58900-10 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 11:15 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Wed Oct 27 15:03:37 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



EF93924.D PCB4061.M

Thu Nov 04 11:15:52 2010

GCEF

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93925.D\ECD1A.CH Vial: 29  
 Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93925.D\ECD2B.CH  
 Acq On : 28 Oct 2010 7:29 pm Operator: vinced  
 Sample : ja58900-11 Inst : gcef  
 Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 4 11:16 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
 Title : GC/ECD- PCB  
 Last Update : Wed Oct 27 15:03:37 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	3.20	3.15	363693	461075	23.949	24.399
Spiked Amount	40.000		Recovery	=	59.87%	61.00%
51) S Decachlorobiphen	11.61	12.08	574800	762530	33.782	35.727
Spiked Amount	40.000		Recovery	=	84.45%	89.32%

Target Compounds

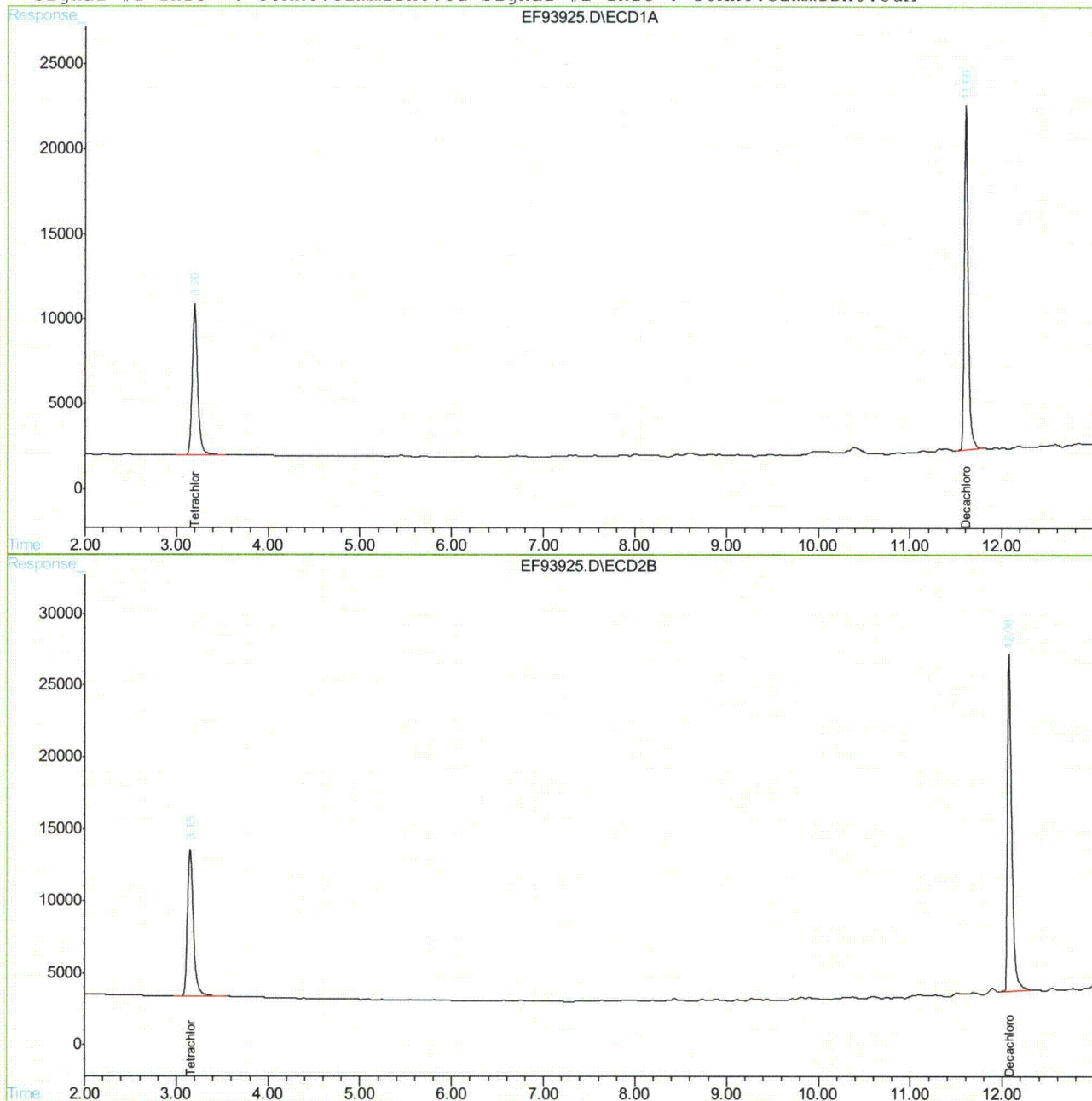
-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 EF93925.D PCB4061.M Thu Nov 04 11:16:13 2010 GCEF

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93925.D\ECD1A.CH Vial: 29  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93925.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:29 pm Operator: vinced  
Sample : ja58900-11 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 11:16 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Wed Oct 27 15:03:37 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



EF93925.D PCB4061.M

Thu Nov 04 11:16:13 2010

GCEF

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93926.D\ECD1A.CH Vial: 30  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93926.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:46 pm Operator: vinced  
Sample : ja58900-12 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 11:17 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Thu Nov 04 11:16:58 2010  
Response via : Initial Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	3.19	3.15	406186	522814	26.747	27.667
Spiked Amount	40.000		Recovery	=	66.87%	69.17%
51) S Decachlorobiphen	11.60	12.08	696379	963755	40.928	45.154
Spiked Amount	40.000		Recovery	=	102.32%	112.89%

Target Compounds

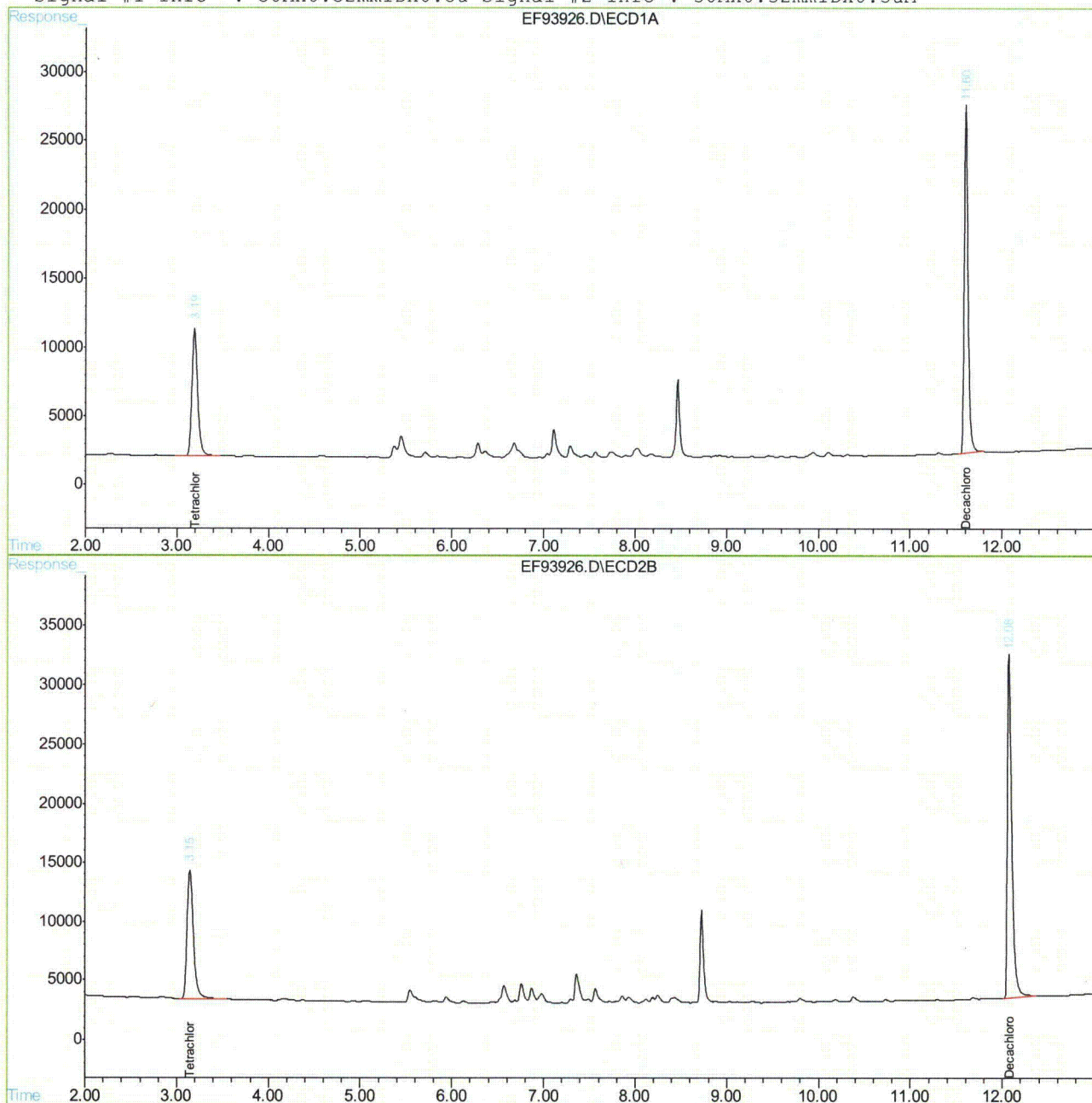
-----  
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
EF93926.D PCB4061.M Thu Nov 04 11:17:38 2010 GCEF

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93926.D\ECD1A.CH Vial: 30  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93926.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:46 pm Operator: vinced  
Sample : ja58900-12 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 11:17 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Thu Nov 04 11:16:58 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



EF93926.D PCB4061.M

Thu Nov 04 11:17:39 2010

GCEF

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93927.D\ECD1A.CH Vial: 31  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93927.D\ECD2B.CH  
Acq On : 28 Oct 2010 8:04 pm Operator: vinced  
Sample : ja58900-14 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 11:17 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Thu Nov 04 11:16:58 2010  
Response via : Initial Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	3.18f	3.13f	610625	778956	40.210	41.221
Spiked Amount	40.000		Recovery	=	100.52%	103.05%
51) S Decachlorobiphen	11.60	12.08	810438	1127531	47.631	52.828
Spiked Amount	40.000		Recovery	=	119.08%	132.07%

Target Compounds

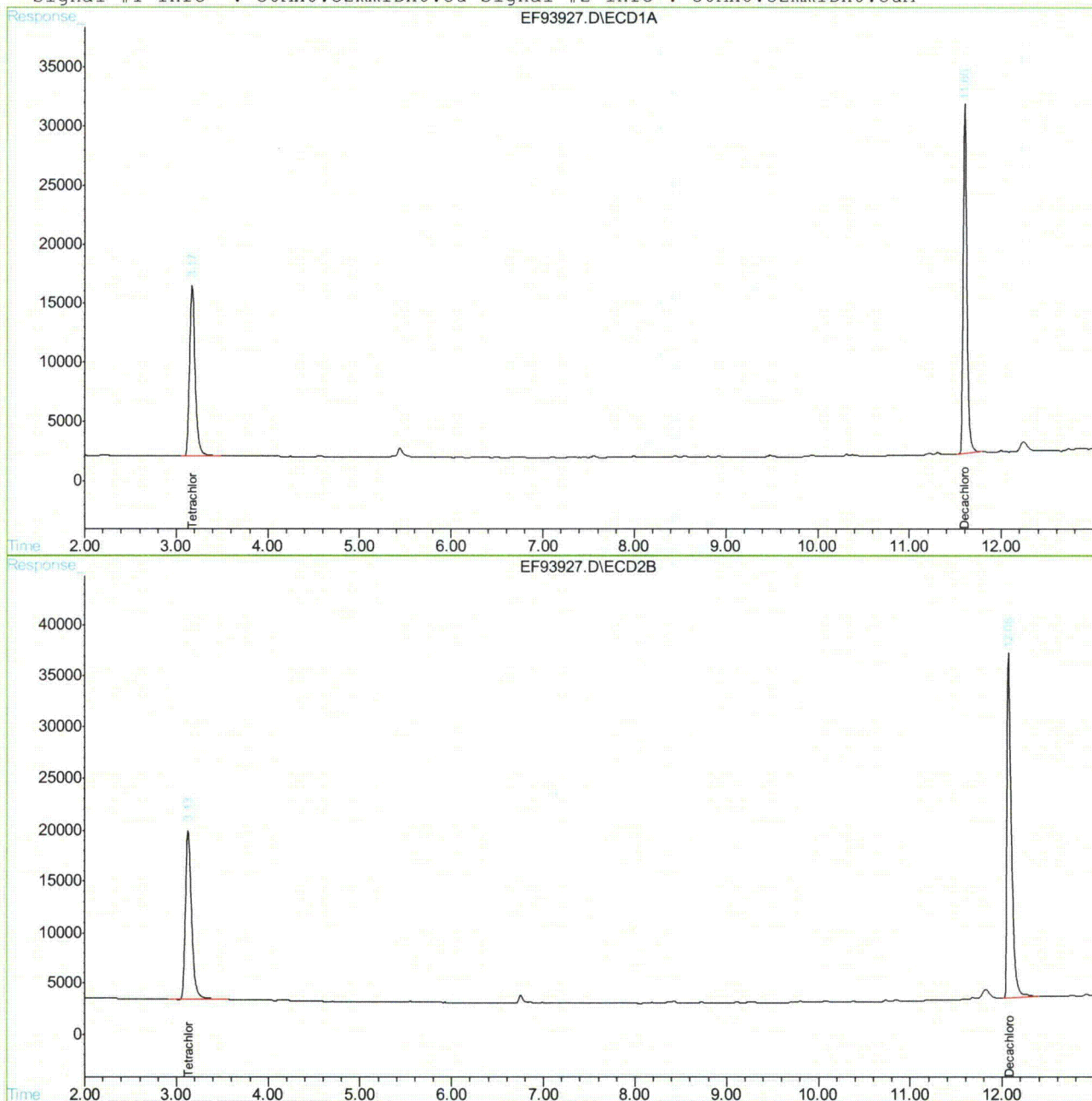
-----  
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
EF93927.D PCB4061.M Thu Nov 04 11:18:04 2010 GCEF

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93927.D\ECD1A.CH Vial: 31  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93927.D\ECD2B.CH  
Acq On : 28 Oct 2010 8:04 pm Operator: vinced  
Sample : ja58900-14 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 11:17 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Thu Nov 04 11:16:58 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



EF93927.D PCB4061.M

Thu Nov 04 11:18:05 2010

GCEF

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95337.D\ECD1A.CH Vial: 35  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95337.D\ECD2B.CH  
Acq On : 22 Oct 2010 5:22 am Operator: toyar  
Sample : OP46107-MB3 Inst : GCWW  
Misc : OP46107,Gww3334,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 25 15:42 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Mon Oct 25 15:41:48 2010  
Response via : Initial Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
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## System Monitoring Compounds

2) S 2,4-DCAA	15.19	14.69	1227.3E6	458.0E6	558.116	487.250
Spiked Amount	500.000		Recovery	=	111.62%	97.45%

## Target Compounds

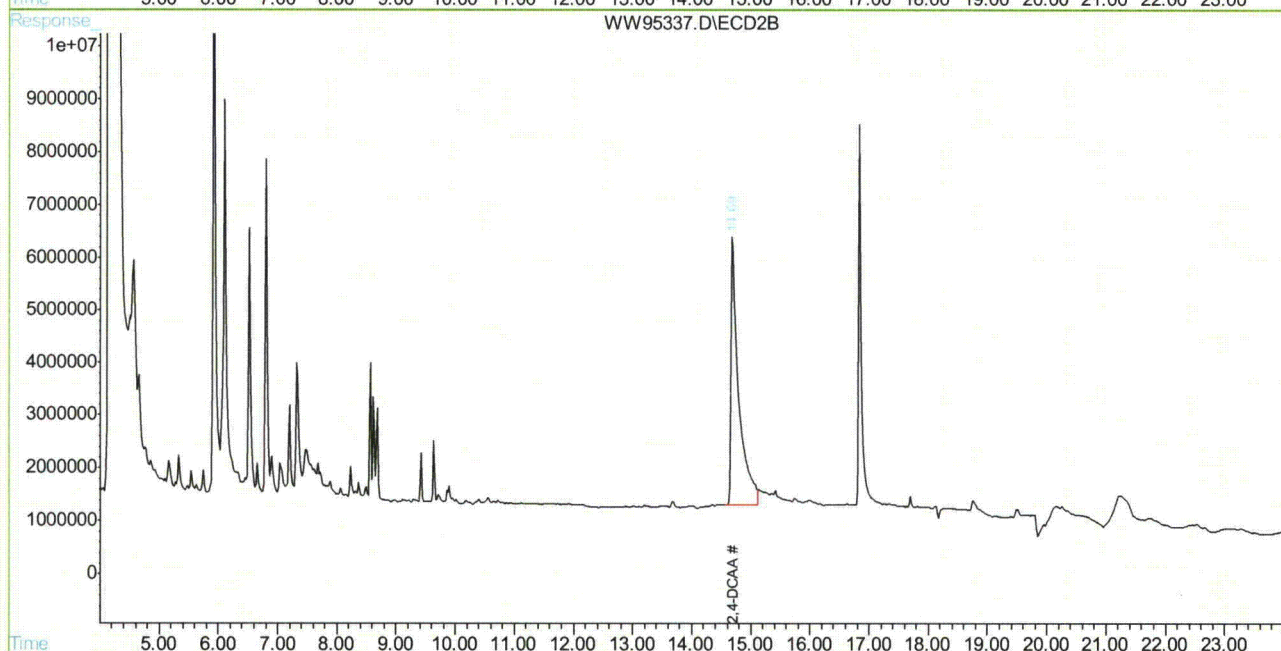
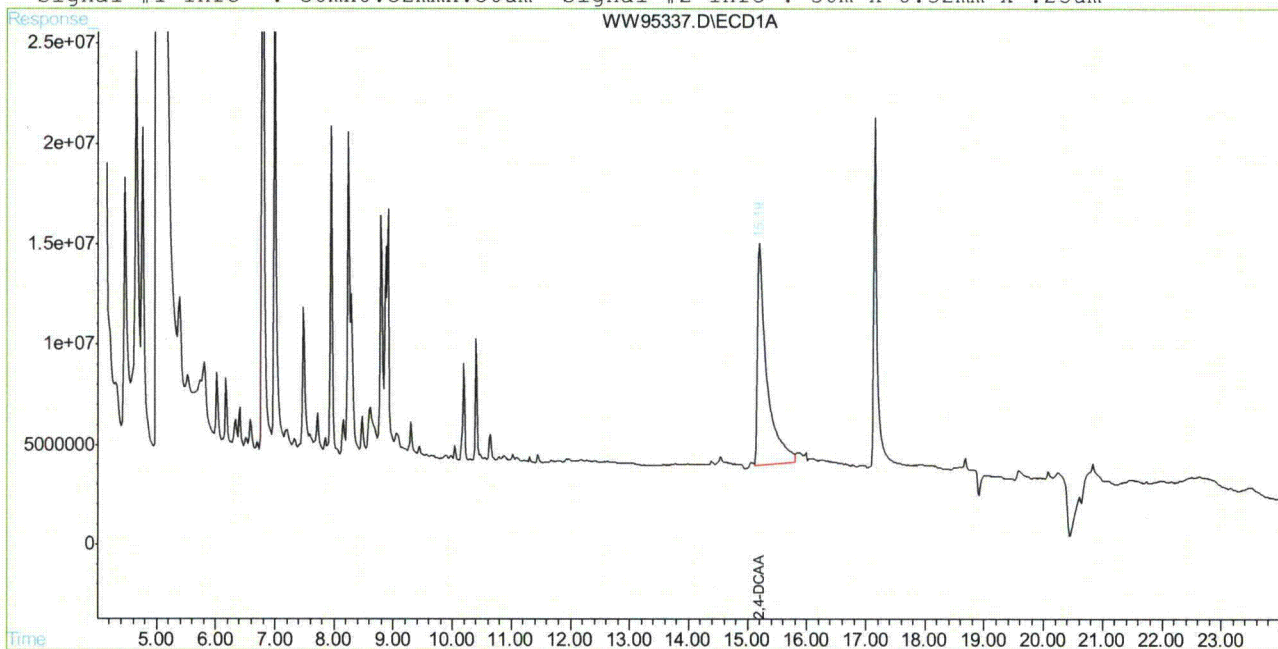
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
WW95337.D HWW3143.M Mon Oct 25 15:42:55 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95337.D\ECD1A.CH Vial: 35  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95337.D\ECD2B.CH  
Acq On : 22 Oct 2010 5:22 am Operator: toyar  
Sample : OP46107-MB3 Inst : GCWW  
Misc : OP46107,Gww3334,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 25 15:42 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Mon Oct 25 15:41:48 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPII Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



WW95337.D HWW3143.M Mon Oct 25 15:42:56 2010 GCCD

Page 2

Cheng-Hwan Ao  
11/04/10 16:52

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95481.D\ECD1A.CH Vial: 14  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95481.D\ECD2B.CH  
Acq On : 28 Oct 2010 6:57 pm Operator: toyar  
Sample : op46377-mb1 Inst : GCWW  
Misc : OP46377,Gww3340,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 10:56 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 10:56:03 2010  
Response via : Initial Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
----------	------	------	--------	--------	-----	-----

System Monitoring Compounds  
2) S 2,4-DCAA 15.25 14.76 239.5E6 95411706 108.897m 101.510m  
Spiked Amount 500.000 Recovery = 21.78% 20.30%

Target Compounds

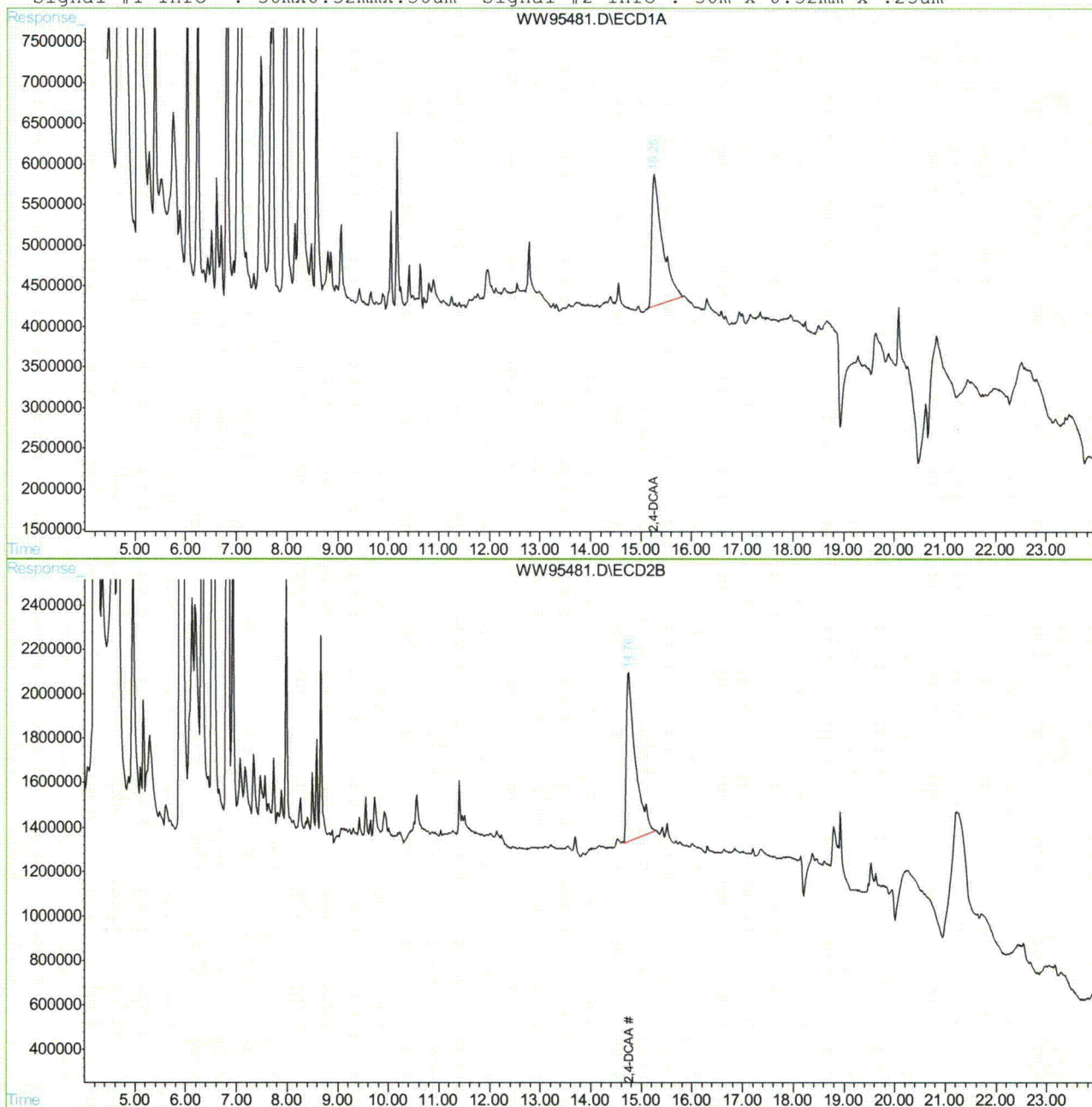
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
WW95481.D HWW3143.M Fri Oct 29 10:56:42 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95481.D\ECD1A.CH Vial: 14  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95481.D\ECD2B.CH  
Acq On : 28 Oct 2010 6:57 pm Operator: toyar  
Sample : op46377-mb1 Inst : GCWW  
Misc : OP46377,Gww3340,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 10:56 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 10:56:03 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPII Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



WW95481.D HWW3143.M Fri Oct 29 10:56:42 2010 GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46377-MB1      **Method:** SW846 8151  
**Lab FileID:** WW95481.D      **Analyst approved:** 10/29/10 11:00 Toya Dagena Raffington  
**Injection Time:** 10/28/10 18:57      **Supervisor approved:** 11/04/10 16:52 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4-DCAA	19719-28-9	2	14.76	Poorly defined baseline
2,4-DCAA	19719-28-9	1	15.25	Poorly defined baseline

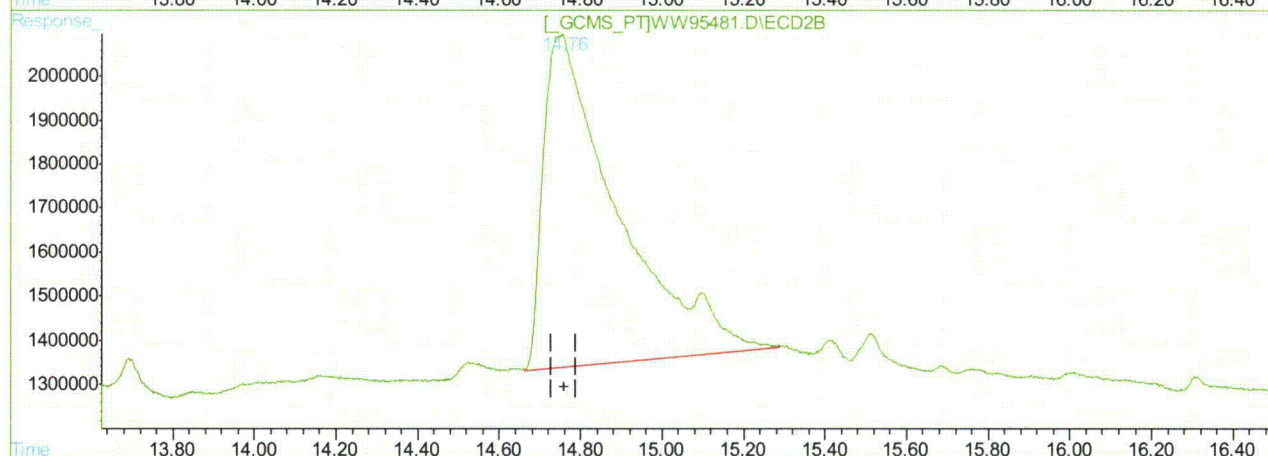
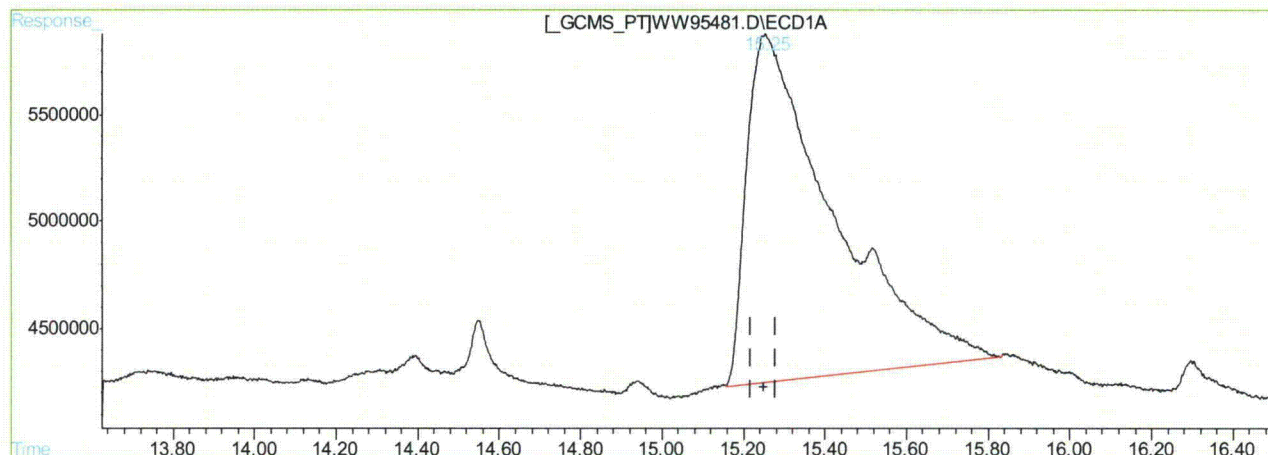
10.2.2.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95481.D\ECD1A.CH Vial: 14  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95481.D\ECD2B.CH  
Acq On : 28 Oct 2010 6:57 pm Operator: toyar  
Sample : op46377-mb1 Inst : GCWW  
Misc : OP46377,Gww3340,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 10:56 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 10:56:03 2010  
Response via : Multiple Level Calibration



(2) 2,4-DCAA (S)

15.25min 108.897PPB m

response 239465105

(2) 2,4-DCAA #2 (S)

14.76min 101.510PPB m

response 95411706

(+) = Expected Retention Time  
WW95481.D HWW3143.M Fri Oct 29 10:56:31 2010 GCCD

Cheng-Hwan Ao  
11/29/10 16:48

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95885.D\ECD1A.CH Vial: 3  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95885.D\ECD2B.CH  
Acq On : 12 Nov 2010 12:04 pm Operator: toyar  
Sample : OP46441-MB1 Inst : GCWW  
Misc : OP46441,Gww3356,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 9:27 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:24:11 2010  
Response via : Initial Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
----------	------	------	--------	--------	-----	-----

## System Monitoring Compounds

2) S 2,4-DCAA	15.17	14.68	1069.0E6	435.2E6	486.145	462.982m
Spiked Amount	500.000		Recovery	=	97.23%	92.60%

Target Compounds

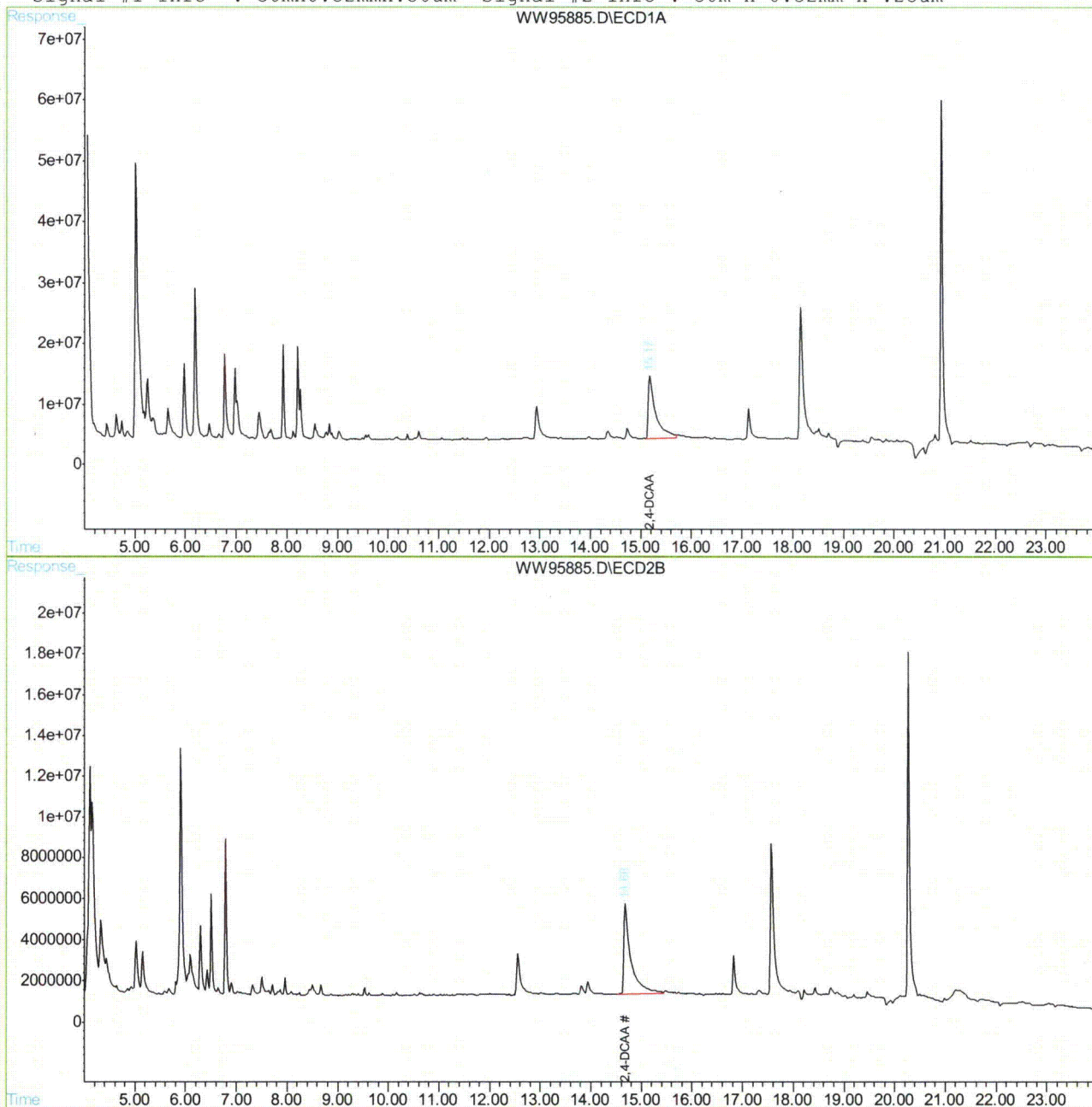
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
WW95885.D HWW3143.M Tue Nov 16 09:27:08 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95885.D\ECD1A.CH Vial: 3  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95885.D\ECD2B.CH  
Acq On : 12 Nov 2010 12:04 pm Operator: toyar  
Sample : OP46441-MB1 Inst : GCWW  
Misc : OP46441,Gww3356,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 9:27 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:24:11 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPII Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



WW95885.D HWW3143.M

Tue Nov 16 09:27:08 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46441-MB1      **Method:** SW846 8151  
**Lab FileID:** WW95885.D      **Analyst approved:** 11/29/10 16:00 Toya Dagena Raffington  
**Injection Time:** 11/12/10 12:04      **Supervisor approved:** 11/29/10 16:48 Cheng-Hwan Ao

Parameter	CAS	Sig#	R. T. (min.)	Reason
2,4-DCAA	19719-28-9	2	14.68	Poorly defined baseline

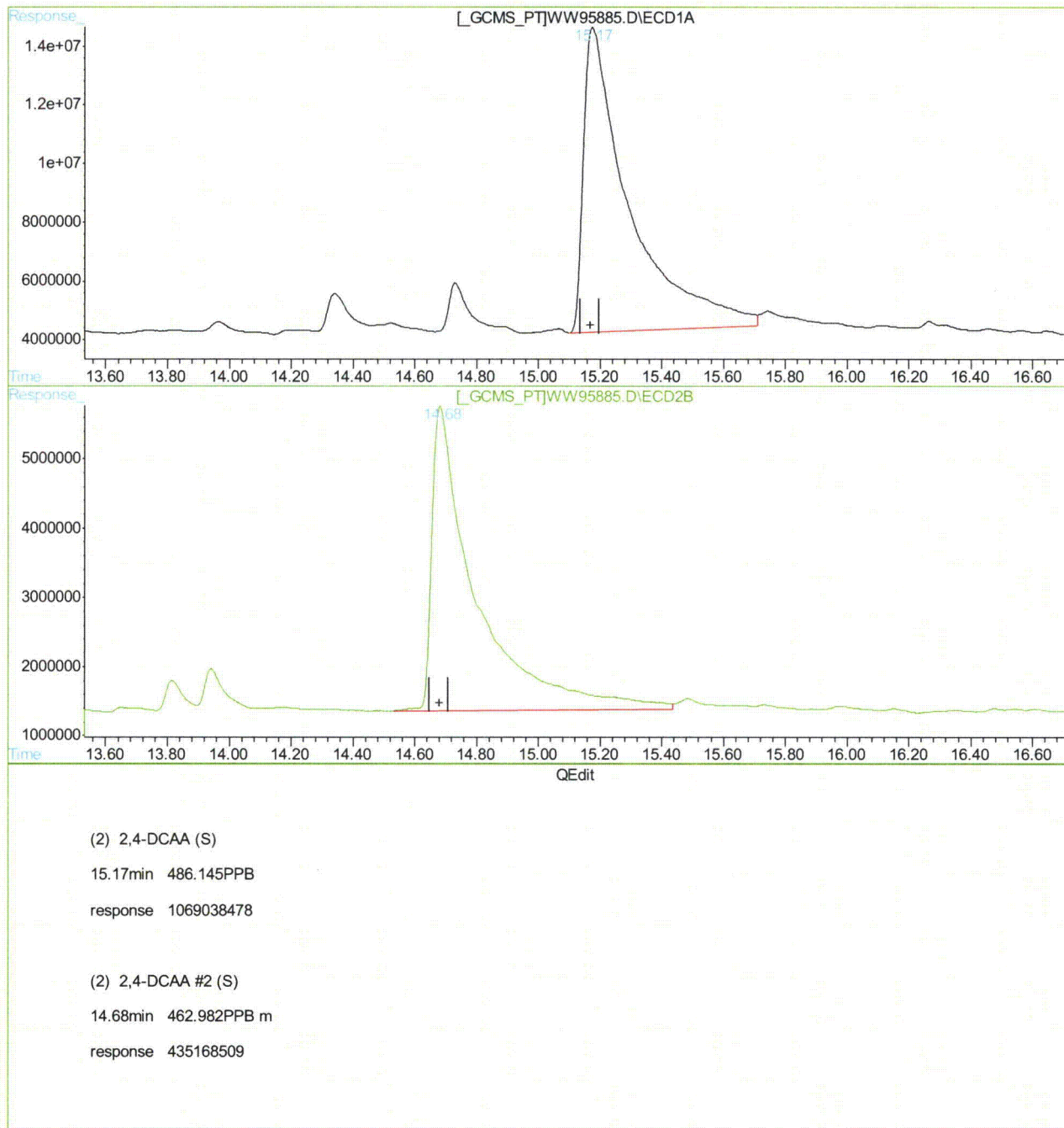
10.2.3.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95885.D\ECD1A.CH Vial: 3  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95885.D\ECD2B.CH  
Acq On : 12 Nov 2010 12:04 pm Operator: toyar  
Sample : OP46441-MB1 Inst : GCWW  
Misc : OP46441,Gww3356,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 9:25 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:24:11 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time  
WW95885.D HWW3143.M Tue Nov 16 09:26:20 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95119.D\ECD1A.CH Vial: 15  
Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95119.D\ECD2B.CH  
Acq On : 14 Oct 2010 4:57 pm Operator: toyar  
Sample : OP46107-MB1 Inst : GCWW  
Misc : OP46107,Gww3324,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 15 15:16 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 15 15:15:32 2010  
Response via : Initial Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
----------	------	------	--------	--------	-----	-----

## System Monitoring Compounds

2) S 2,4-DCAA	15.18	14.69	988.9E6	438.6E6	449.705	466.600
Spiked Amount	500.000		Recovery	=	89.94%	93.32%

Target Compounds

10.2.4 10

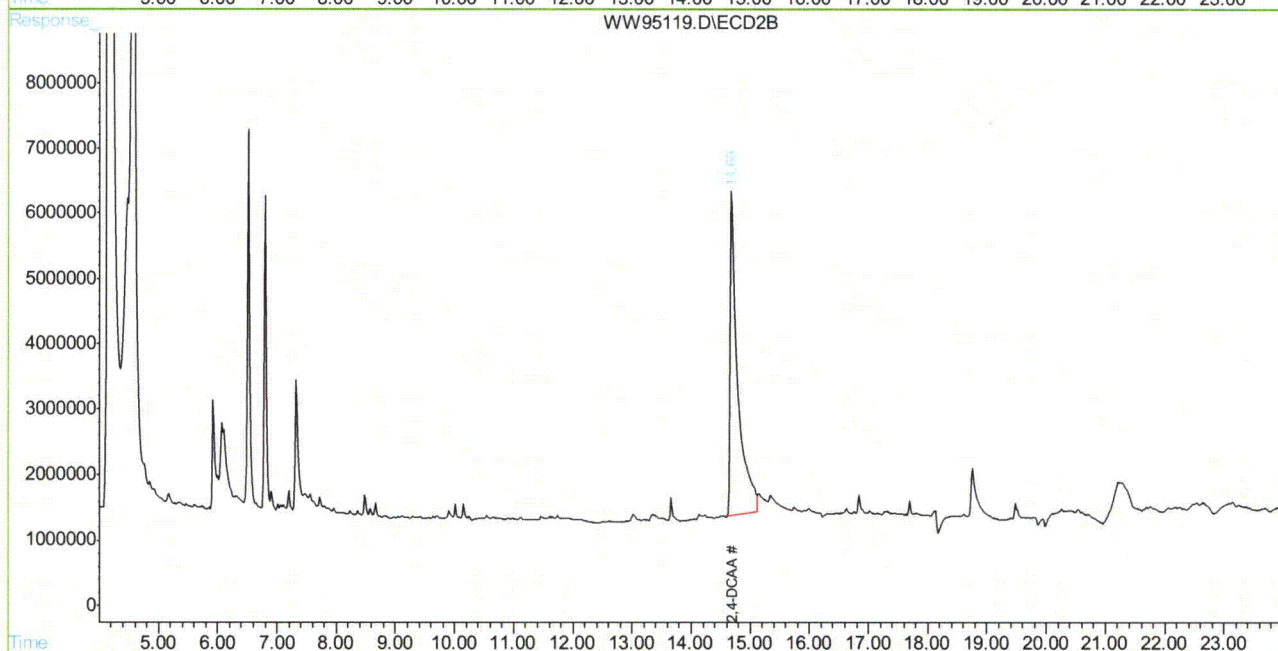
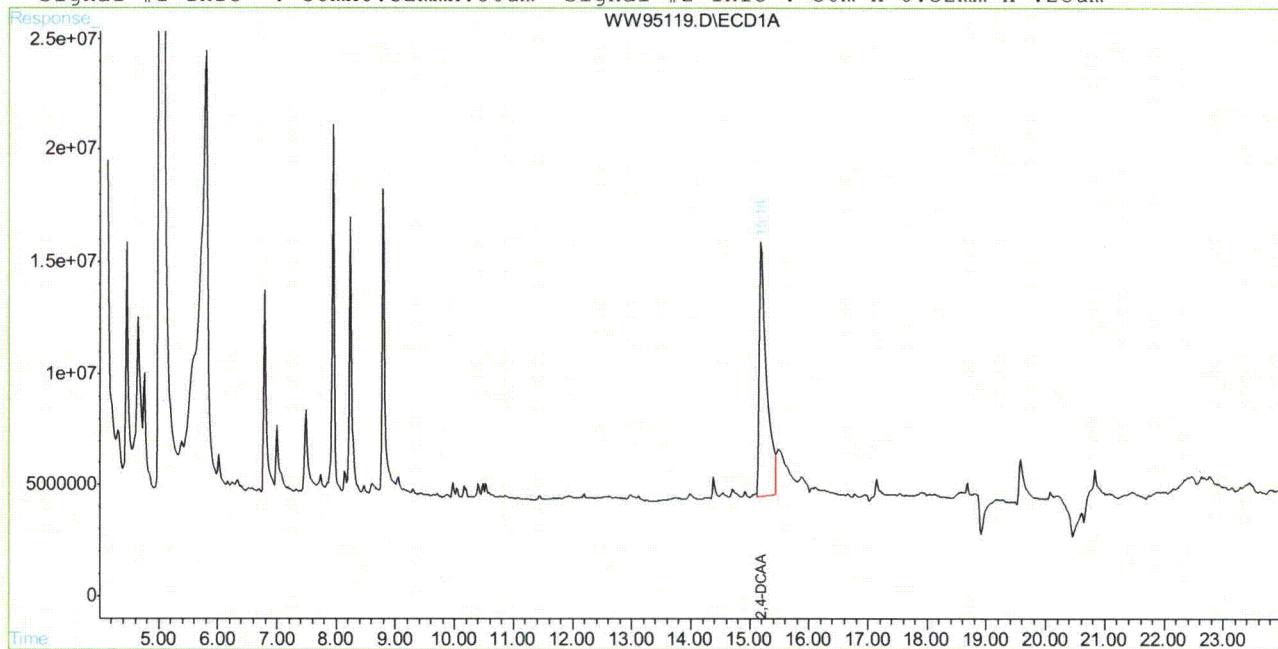
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
WW95119.D HWW3143.M Fri Oct 15 15:16:45 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95119.D\ECD1A.CH Vial: 15  
Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95119.D\ECD2B.CH  
Acq On : 14 Oct 2010 4:57 pm Operator: toyar  
Sample : OP46107-MB1 Inst : GCWW  
Misc : OP46107,Gww3324,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 15 15:16 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 15 15:15:32 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPII Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



WW95119.D HWW3143.M Fri Oct 15 15:16:45 2010 GCCD

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58171.D\ECD1A.CH Vial: 29  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58171.D\ECD2B.CH  
Acq On : 10-26-10 06:35:53 PM Operator: owenm  
Sample : op46260-mb1 Inst : GC1G  
Misc : op46260,glg2122,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 27 10:16 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Initial Calibration  
DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.97	2.29	655.7E6	232.2E6	29.788	32.334
Spiked Amount	40.000	Range	30 - 150	Recovery	= 74.47%	80.84%
34) SA Decachlorobiphen	8.64	10.27	831.0E6	142.8E6	26.420	25.816
Spiked Amount	40.000	Range	30 - 150	Recovery	= 66.05%	64.54%

Target Compounds

(f)=RT Delta > 1/2 Window  
1G58171.D 1PST2096.M

Wed Oct 27 10:16:14 2010

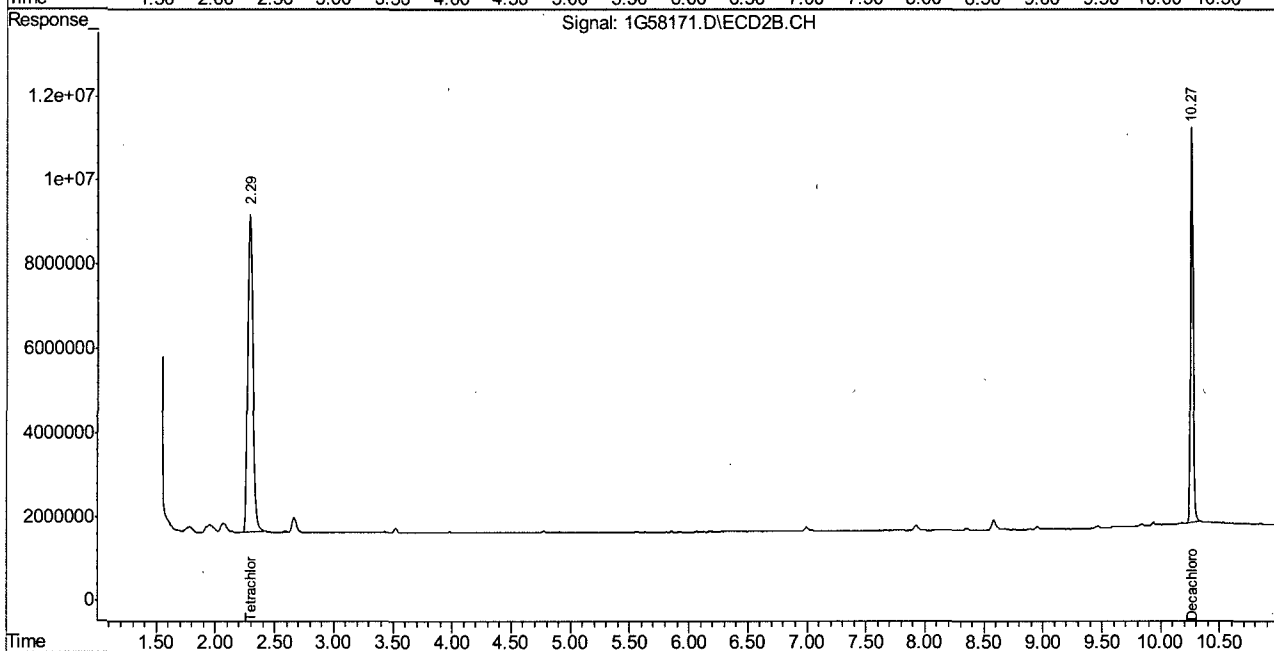
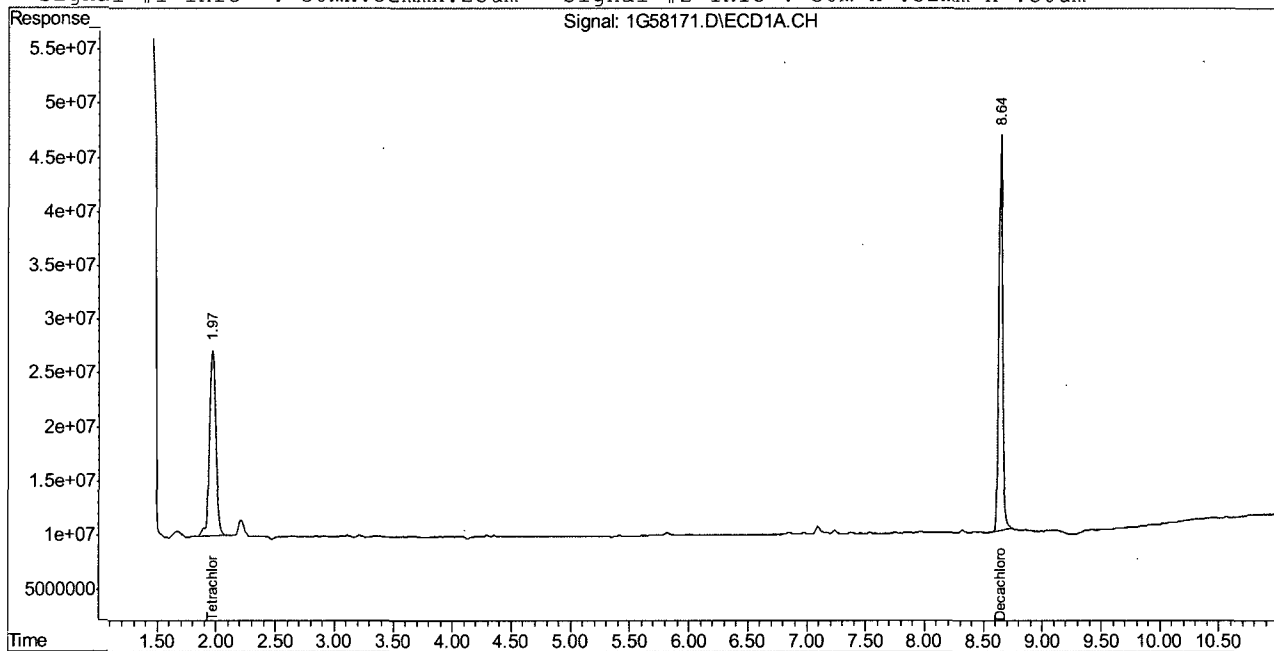
(m)=manual int.  
RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58171.D\ECD1A.CH Vial: 29  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58171.D\ECD2B.CH  
Acq On : 10-26-10 06:35:53 PM Operator: owenm  
Sample : op46260-mb1 Inst : GC1G  
Misc : op46260,glg2122,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 27 10:16 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II  
Signal #1 Info : 30mx.32mmx.25um  
Signal #2 Phase: RTX-CLP I  
Signal #2 Info : 30m x .32mm x .50um



1G58171.D 1PST2096.M Wed Oct 27 10:16:14 2010 RPT1

Page 2.

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g24\  
Data File : 4g782.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 27 Oct 2010 12:46 pm  
Operator : owenm  
Sample : op46373-mb1  
Misc : op46373,g4g24,17.0,,,10,1  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 27 14:14:00 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Fri Oct 22 09:47:34 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachlo...	1.986	2.337f	106.8E6	90502183	32.029	31.973
Spiked Amount	40.000	Range	30 - 150	Recovery =	80.07%	79.93%
34) SA Decachlor...	8.736	10.404	112.3E6	71162470	35.909	34.928
Spiked Amount	40.000	Range	30 - 150	Recovery =	89.77%	87.32%

## Target Compounds

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

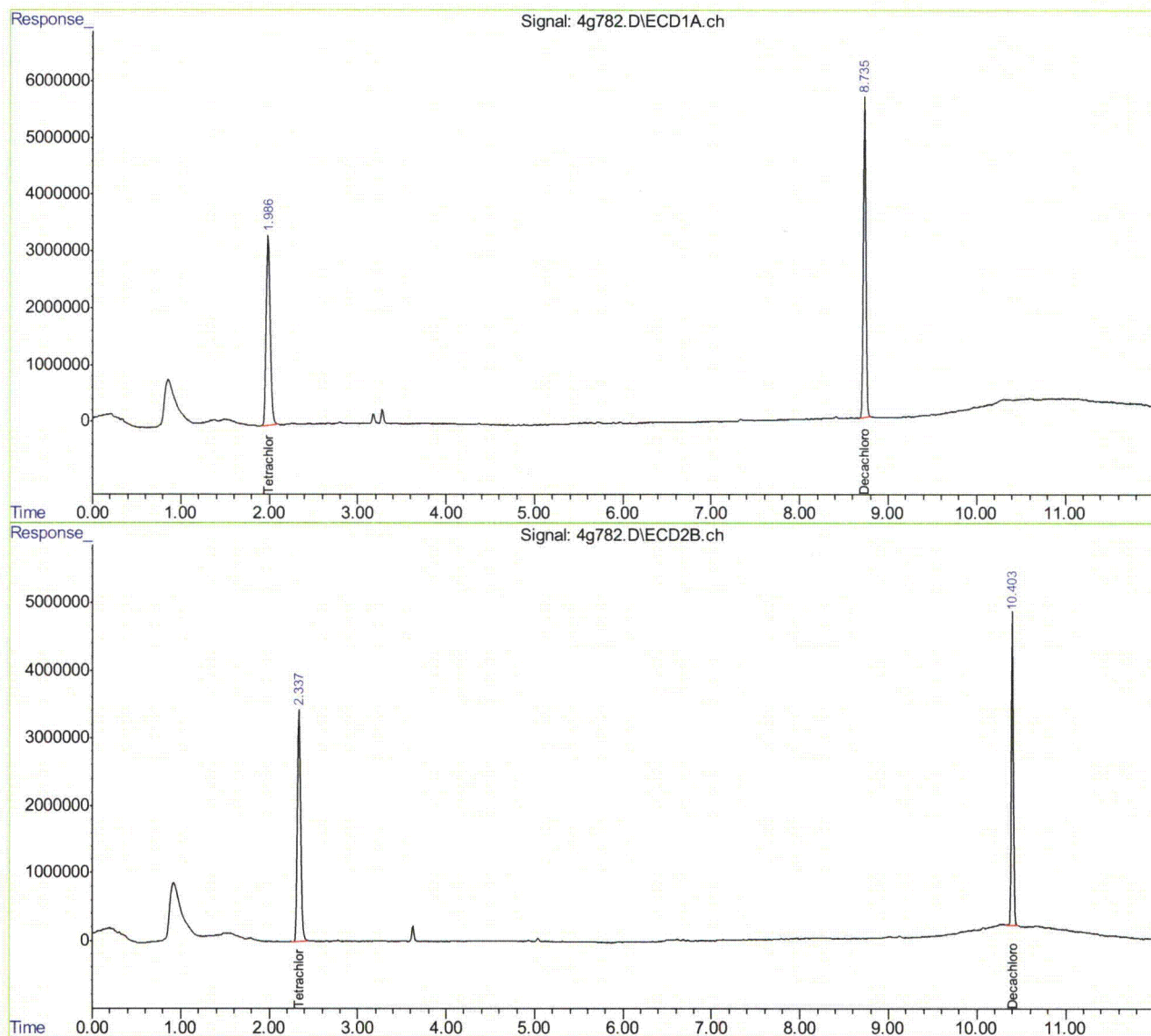
10.2.6  
10

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g24\  
Data File : 4g782.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 27 Oct 2010 12:46 pm  
Operator : owenm  
Sample : op46373-mb1  
Misc : op46373,g4g24,17.0,,,10,1  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 27 14:14:00 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Fri Oct 22 09:47:34 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1847\3G50145.D\ECD1A.CH Vial: 14  
Signal #2 : C:\MSDCHEM\1\DATA\1847\3G50145.D\ECD2B.CH  
Acq On : 20 Oct 2010 11:59 am Operator: toyar  
Sample : op46259-mb1 Inst : GC3G  
Misc : OP46259,g3g1847,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Oct 20 12:11:53 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Wed Oct 06 13:23:17 2010  
Response via : Initial Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.18	809.6E6	607.7E6	32.308	32.957
Spiked Amount 40.000			Recovery	=	80.77%	82.39%
50) S Decachlorobiphen	9.04	9.26f	748.6E6	479.4E6	31.676	35.082
Spiked Amount 40.000			Recovery	=	79.19%	87.70%

Target Compounds

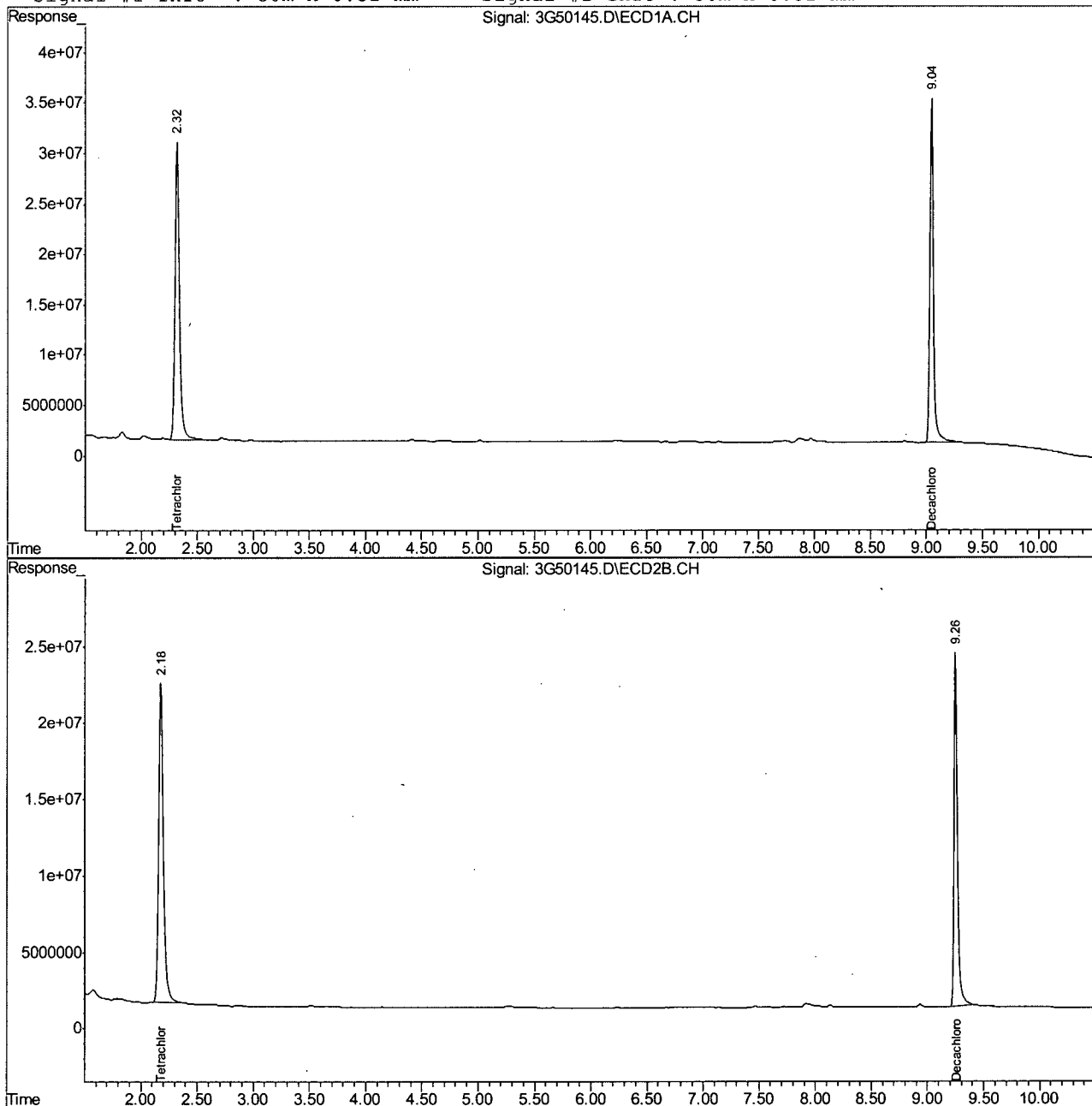
-----  
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
3G50145.D PCB1826.M Wed Oct 20 12:28:28 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1847\3G50145.D\ECD1A.CH Vial: 14  
Signal #2 : C:\MSDCHEM\1\DATA\1847\3G50145.D\ECD2B.CH  
Acq On : 20 Oct 2010 11:59 am Operator: toyar  
Sample : op46259-mbl Inst : GC3G  
Misc : OP46259,g3g1847,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Oct 20 12:28 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Wed Oct 06 13:23:17 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G50145.D PCB1826.M

Wed Oct 20 12:28:29 2010

GC3G

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93908.D\ECD1A.CH Vial: 12  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93908.D\ECD2B.CH  
Acq On : 28 Oct 2010 2:31 pm Operator: vinced  
Sample : op46374-mb1 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 1 9:22 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Wed Oct 27 15:03:37 2010  
Response via : Initial Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	3.20	3.16	568567	747684	37.440	39.566
Spiked Amount	40.000		Recovery	=	93.60%	98.92%
51) S Decachlorobiphen	11.61	12.09	749019	964676	44.022	45.198
Spiked Amount	40.000		Recovery	=	110.05%	113.00%

Target Compounds

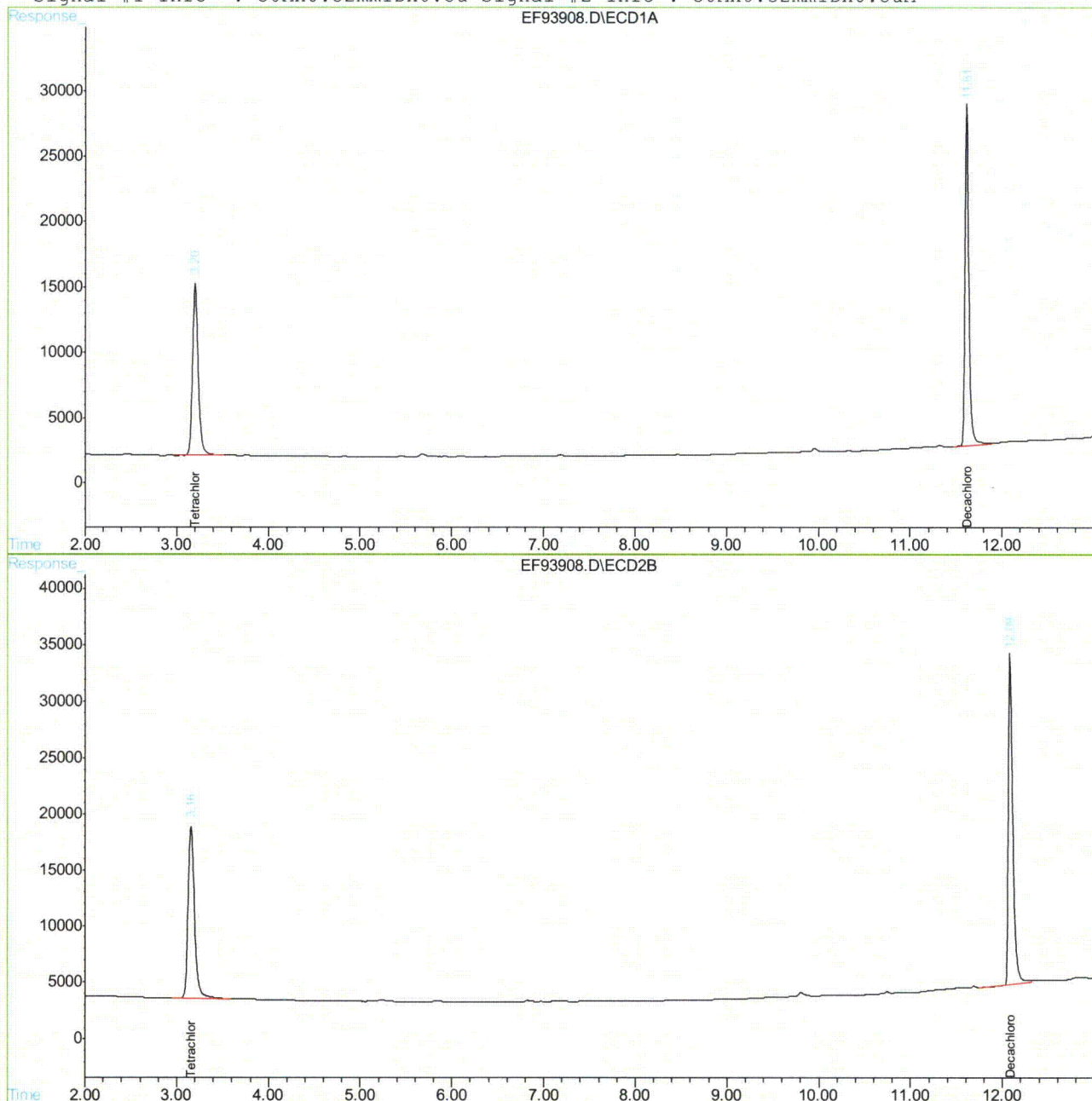
-----  
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
EF93908.D PCB4061.M Mon Nov 01 09:22:33 2010 GCEF

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93908.D\ECD1A.CH Vial: 12  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93908.D\ECD2B.CH  
Acq On : 28 Oct 2010 2:31 pm Operator: vinced  
Sample : op46374-mb1 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 1 9:22 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Wed Oct 27 15:03:37 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



EF93908.D PCB4061.M

Mon Nov 01 09:22:34 2010

GCEF

Page 2

Jessica Reitan-Chu  
10/27/10 17:04

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD1A.CH Vial: 36  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD2B.CH  
 Acq On : 22 Oct 2010 5:43 am Operator: toyar  
 Sample : OP46107-BS3 Inst : GCWW  
 Misc : OP46107,Gww3334,1000,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 25 15:46 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Mon Oct 25 15:43:58 2010  
 Response via : Initial Calibration  
 DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
 Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
2) S 2,4-DCAA	15.13	14.63	1093.6E6	425.2E6	497.302	452.333m
Spiked Amount	500.000		Recovery	=	99.46%	90.47%
Target Compounds						
1) Dalapon	6.09	5.17	125.9E6	100.0E6	36.310	61.246 #
3) Dicamba	15.39	14.88	707.7E6	238.7E6	63.032	54.632
4) MCPP	15.69	15.08	66311044	27815439	12902.391	9123.150 #
5) MCPA	15.93	15.43	83708512	58941880	8580.064	12377.604 #
6) Dichloroprop	16.48	15.91	644.5E6	249.2E6	199.073m	185.896
7) 2,4-D	16.87	16.39	685.1E6	281.9E6	219.998	199.430m
8) Pentachloropheno	17.13	16.83	1306.5E6	441.8E6	28.761	25.783
9) 2,4,5-TP	17.94	17.41	901.0E6	299.0E6	50.437	42.274
10) 2,4,5-T	18.34	17.92	612.4E6	252.4E6	40.088	42.090
11) 2,4-DB	19.01	18.53	441.6E6	122.2E6	285.456	168.173 #
12) Dinoseb	20.25	18.87	3026.4E6	672.0E6	177.068m	136.298
13) Picloram	20.22f	20.08	418.7E6	739.6E6	25.462m	89.640 #

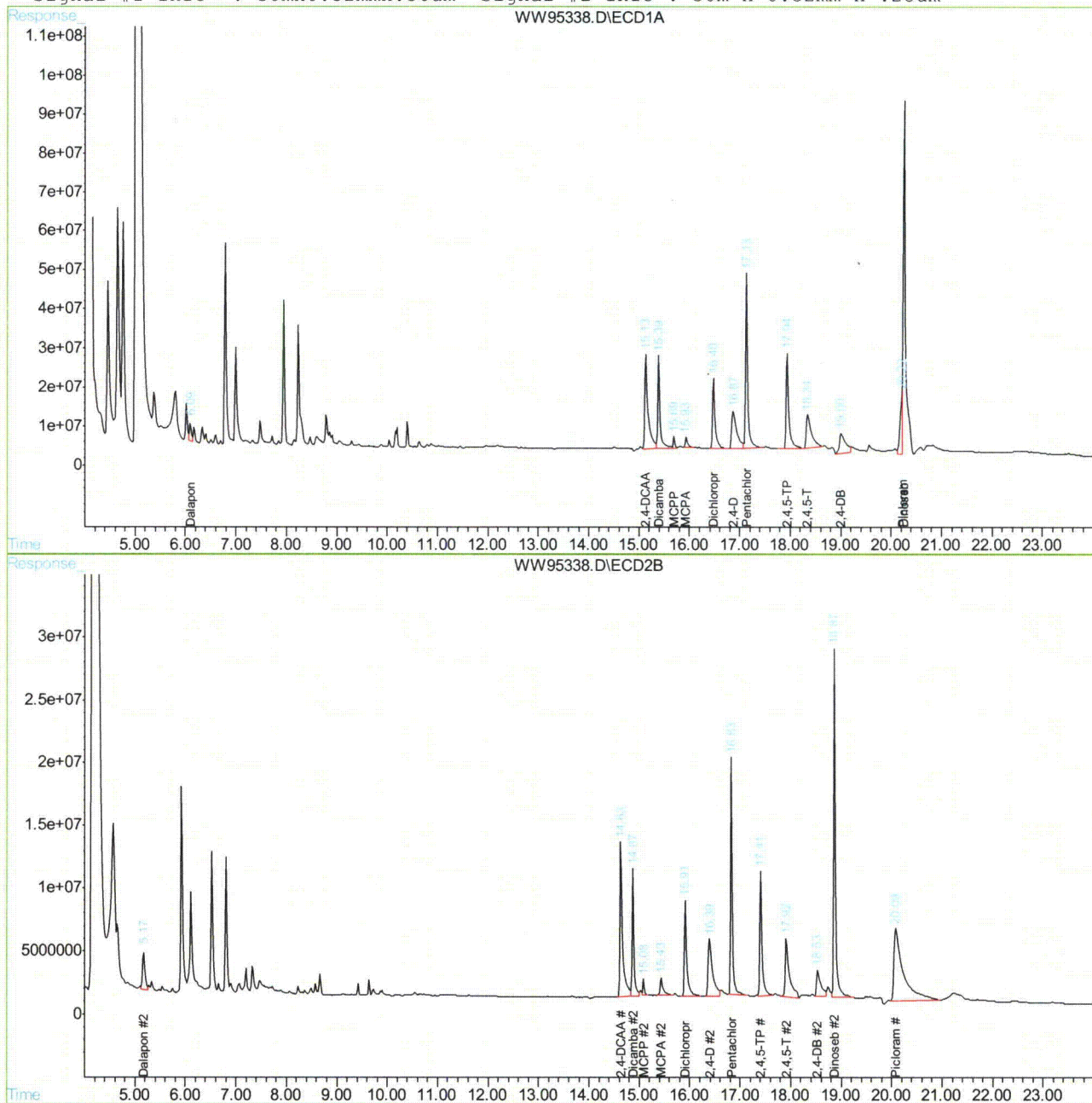
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95338.D HWW3143.M Mon Oct 25 15:47:18 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD1A.CH Vial: 36  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD2B.CH  
Acq On : 22 Oct 2010 5:43 am Operator: toyar  
Sample : OP46107-BS3 Inst : GCWW  
Misc : OP46107,Gww3334,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 25 15:46 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Mon Oct 25 15:43:58 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



WW95338.D HWW3143.M

Mon Oct 25 15:47:19 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46107-BS3  
**Lab FileID:** WW95338.D  
**Injection Time:** 10/22/10 05:43

**Method:** SW846 8151  
**Analyst approved:** 10/25/10 16:19 Toya Dagena Raffington  
**Supervisor approved:** 10/27/10 17:04 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4-DCAA	19719-28-9	2	14.63	Poorly defined baseline
2,4-D	94-75-7	2	16.39	Poorly defined baseline
Dichloroprop	120-36-5	1	16.48	Poorly defined baseline
Picloram	1918-02-1	1	20.22	Overlapping peak
Dinoseb	88-85-7	1	20.25	Overlapping peak

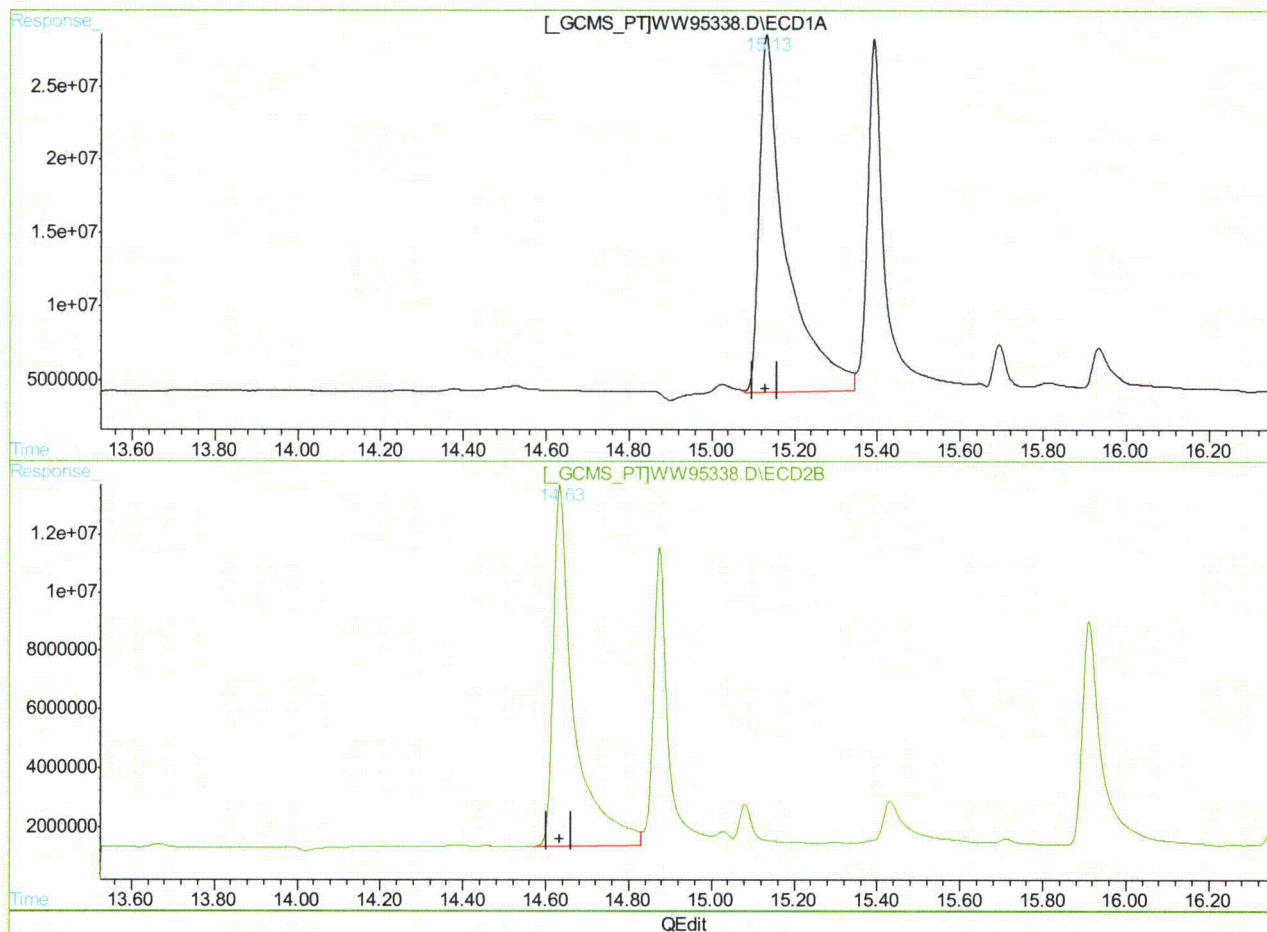
10.3.1.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD1A.CH Vial: 36  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD2B.CH  
Acq On : 22 Oct 2010 5:43 am Operator: toyar  
Sample : OP46107-BS3 Inst : GCWW  
Misc : OP46107,Gww3334,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 25 15:45 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Mon Oct 25 15:43:58 2010  
Response via : Multiple Level Calibration



(2) 2,4-DCAA (S)

15.13min 497.302PPB

response 1093573064

(2) 2,4-DCAA #2 (S)

14.63min 452.333PPB m

response 425159327

(+) = Expected Retention Time

WW95338.D HWW3143.M

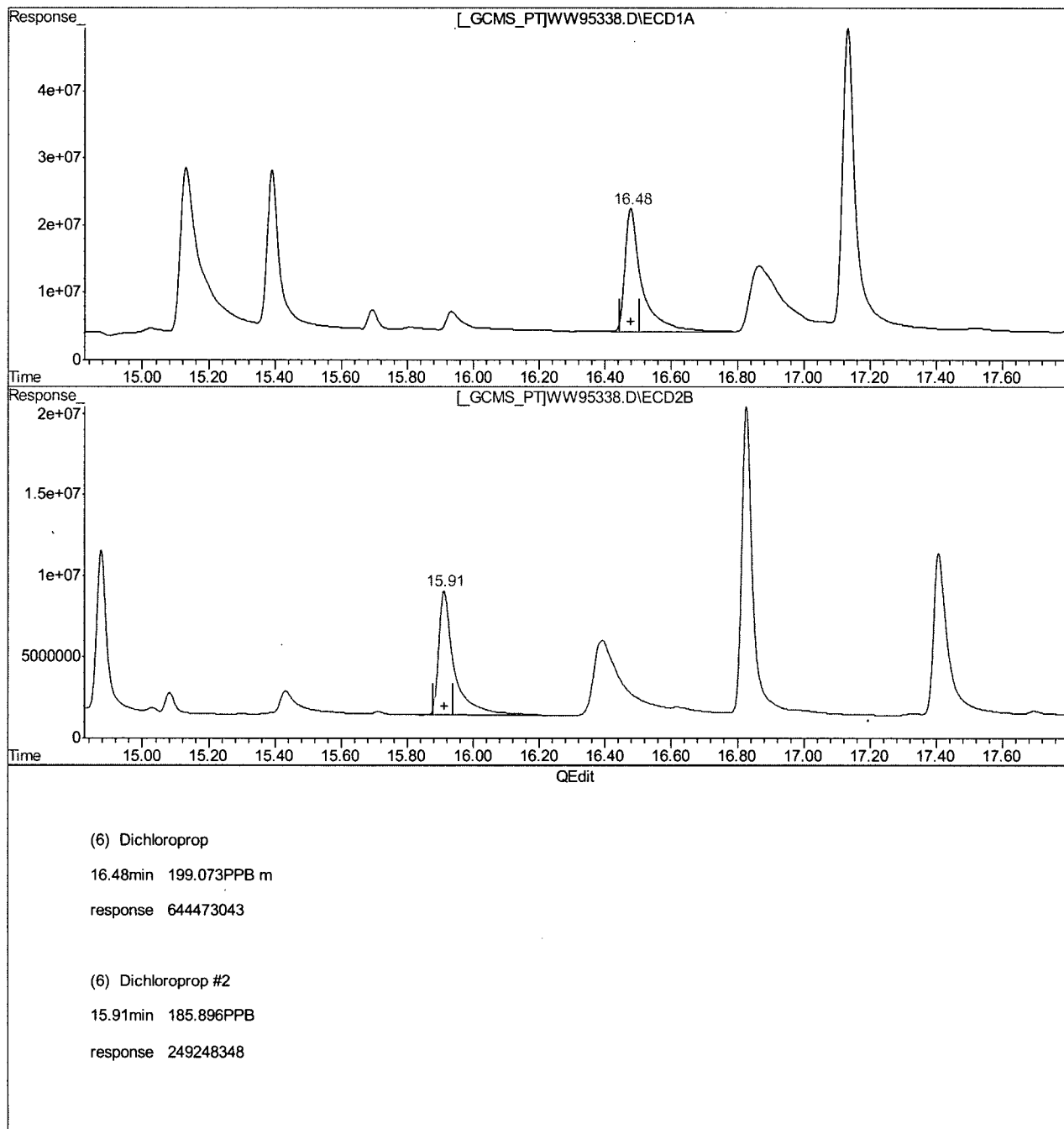
Mon Oct 25 15:46:42 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD1A.CH Vial: 36  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD2B.CH  
Acq On : 22 Oct 2010 5:43 am Operator: toyar  
Sample : OP46107-BS3 Inst : GCWW  
Misc : OP46107,Gww3334,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 25 15:45 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Mon Oct 25 15:43:58 2010  
Response via : Multiple Level Calibration

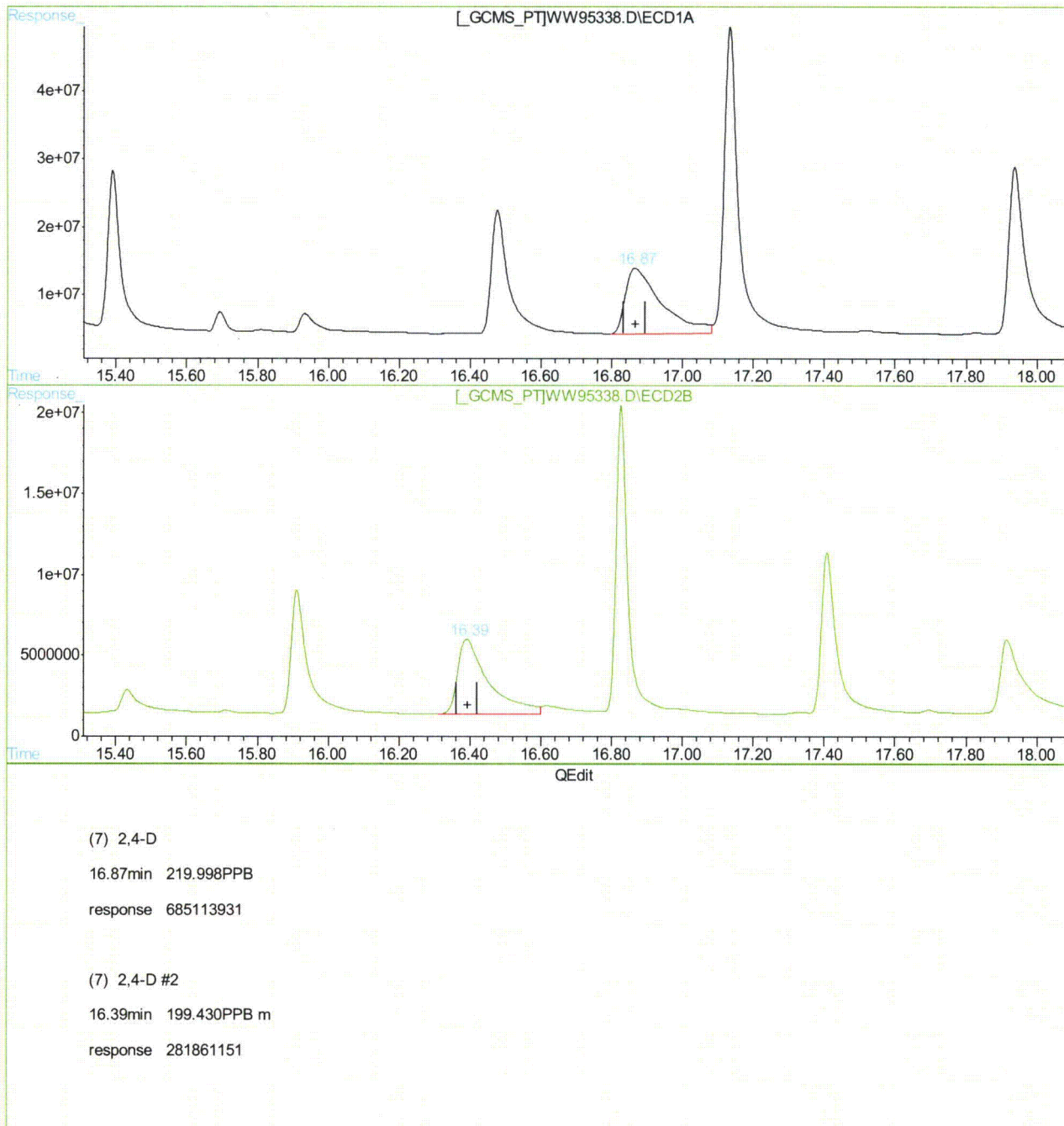


(+) = Expected Retention Time  
WW95338.D HWW3143.M Mon Oct 25 15:46:51 2010 GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD1A.CH Vial: 36  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD2B.CH  
Acq On : 22 Oct 2010 5:43 am Operator: toyar  
Sample : OP46107-BS3 Inst : GCWW  
Misc : OP46107,Gww3334,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 25 15:45 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Mon Oct 25 15:43:58 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time

WW95338.D HWW3143.M

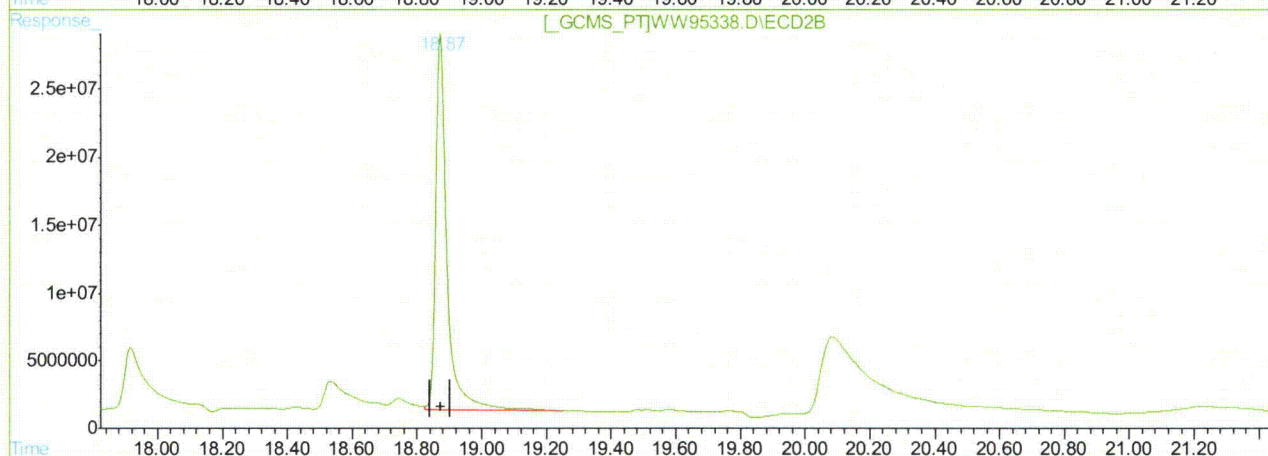
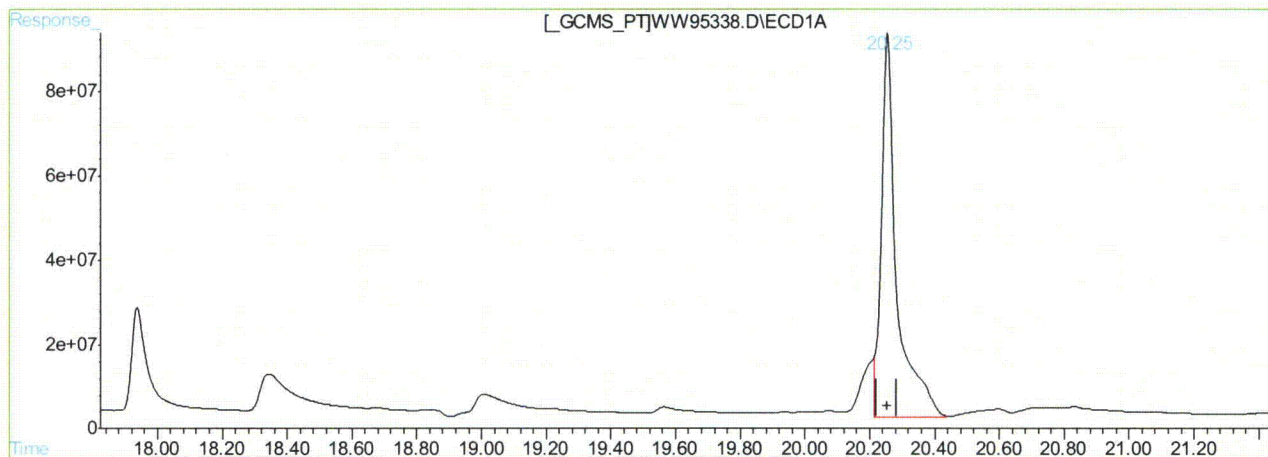
Mon Oct 25 15:46:56 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD1A.CH Vial: 36  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD2B.CH  
Acq On : 22 Oct 2010 5:43 am Operator: toyar  
Sample : OP46107-BS3 Inst : GCWW  
Misc : OP46107,Gww3334,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 25 15:45 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Mon Oct 25 15:43:58 2010  
Response via : Multiple Level Calibration



(12) Dinoseb  
20.25min 177.068PPB m  
response 3026449943

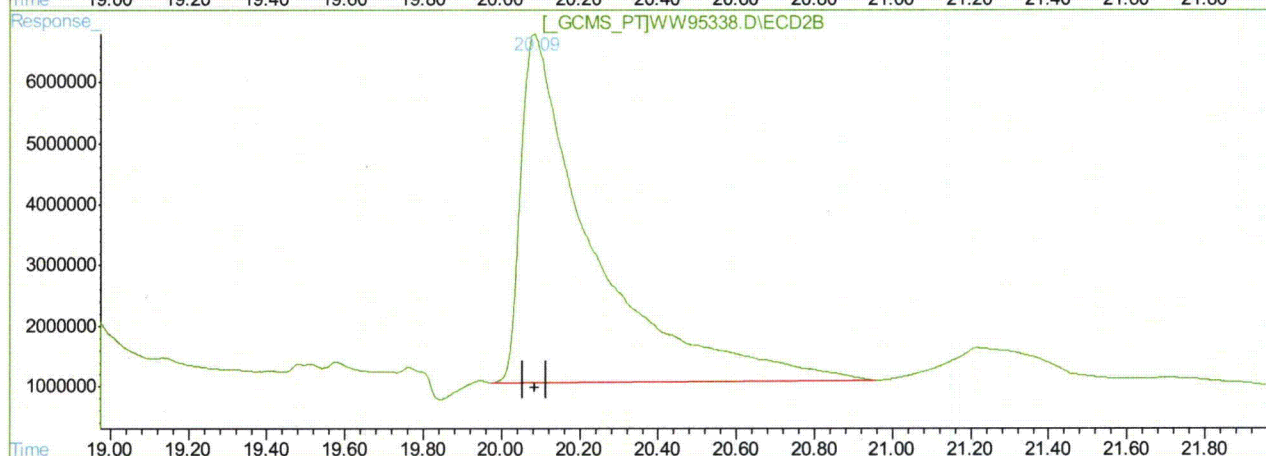
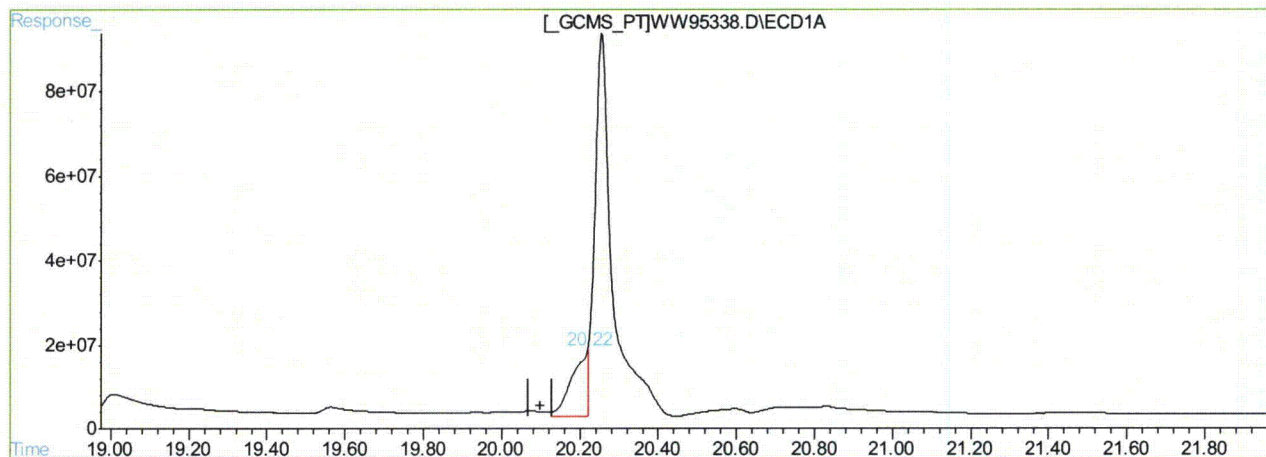
(12) Dinoseb #2  
18.87min 136.298PPB  
response 672022539

(+) = Expected Retention Time  
WW95338.D HWW3143.M Mon Oct 25 15:47:05 2010 GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD1A.CH Vial: 36  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95338.D\ECD2B.CH  
Acq On : 22 Oct 2010 5:43 am Operator: toyar  
Sample : OP46107-BS3 Inst : GCWW  
Misc : OP46107,Gww3334,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 25 15:45 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Mon Oct 25 15:43:58 2010  
Response via : Multiple Level Calibration



(13) Picloram

20.22min 25.462PPB m

response 418656952

(13) Picloram #2

20.08min 89.640PPB

response 739623168

(+) = Expected Retention Time  
WW95338.D HWW3143.M Mon Oct 25 15:47:09 2010

GCCD

Cheng-Hwan Ao  
11/04/10 16:52

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95482.D\ECD1A.CH Vial: 15  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95482.D\ECD2B.CH  
 Acq On : 28 Oct 2010 7:32 pm Operator: toyar  
 Sample : op46377-bs1 Inst : GCWW  
 Misc : OP46377,Gww3340,35.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 29 11:00 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Fri Oct 29 10:59:28 2010  
 Response via : Initial Calibration  
 DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
 Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
2) S 2,4-DCAA	15.16	14.66	871.2E6	342.8E6	396.175	364.706
Spiked Amount	500.000		Recovery	=	79.23%	72.94%
Target Compounds						
1) Dalapon	6.10	5.16	5281508	9331074	1.523m	5.712 #
3) Dicamba	15.40	14.89	398.8E6	138.8E6	35.522	31.765
4) MCPP	15.71	15.09	36715664	35249034	7143.906	11561.285 #
5) MCPA	15.96	15.46	43680349	32382911	4477.205m	6800.306 #
6) Dichloroprop	16.49	15.93	398.7E6	159.5E6	123.163	118.975
7) 2,4-D	16.93	16.45	91450965	44928429	29.366	31.789
8) Pentachloropheno	17.14	16.84	918.3E6	327.7E6	20.215	19.123
9) 2,4,5-TP	17.95	17.43	581.5E6	224.7E6	32.551	31.765
10) 2,4,5-T	18.43	17.99	74605308	65148219	4.884	10.864 #
11) 2,4-DB	19.09	18.61	346.5E6	105.0E6	223.988m	144.445 #
12) Dinoseb	20.26	18.89	2228.5E6	835.0E6	130.382	169.362 #

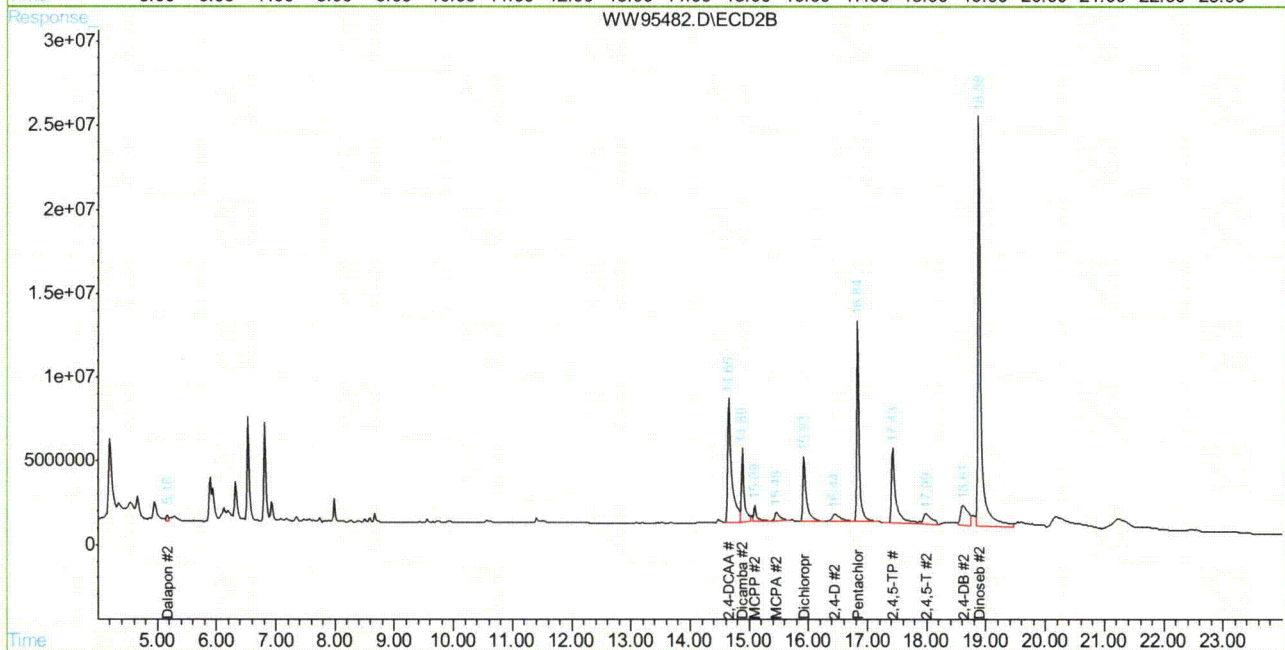
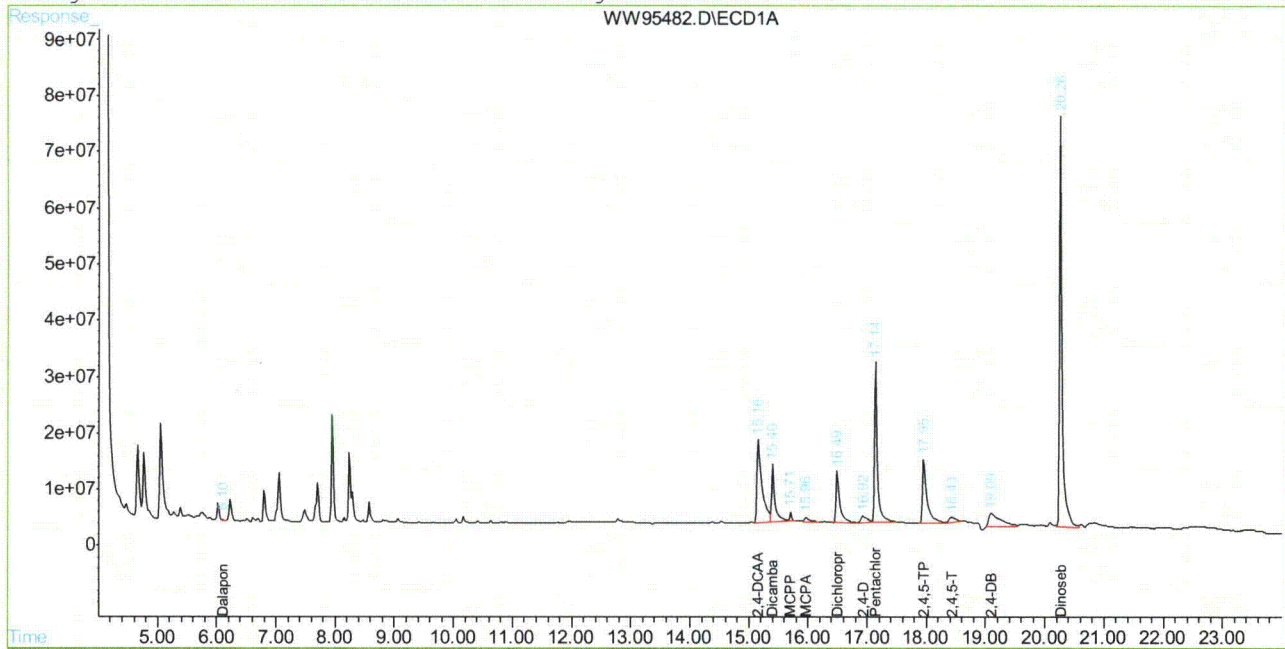
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95482.D HWW3143.M Fri Oct 29 11:01:57 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95482.D\ECD1A.CH Vial: 15  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95482.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:32 pm Operator: toyar  
Sample : op46377-bs1 Inst : GCWW  
Misc : OP46377,Gww3340,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:00 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 10:59:28 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPI Signal #2 Phase : RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



WW95482.D HWW3143.M

Fri Oct 29 11:01:57 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46377-BS1      **Method:** SW846 8151  
**Lab FileID:** WW95482.D      **Analyst approved:** 10/29/10 11:00 Toya Dagenia Raffington  
**Injection Time:** 10/28/10 19:32      **Supervisor approved:** 11/04/10 16:52 Cheng-Hwan Ao

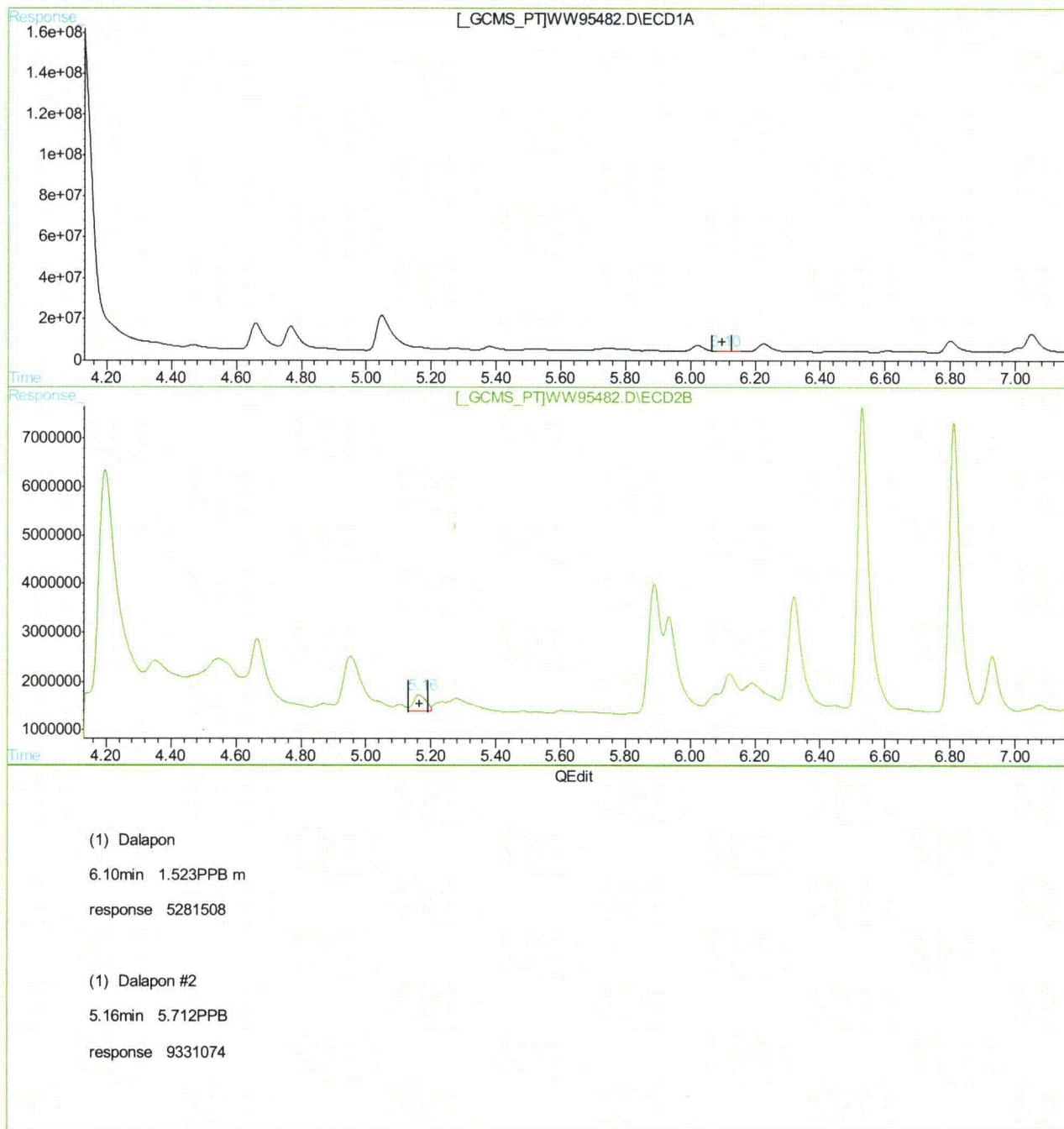
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dalapon	75-99-0	1	6.10	Missed peak
MCPA	94-74-6	1	15.96	Poorly defined baseline
2,4-DB	94-82-6	1	19.09	Poorly defined baseline
2,4-DB	94-82-6	1	19.09	Split peak

10.3.2.1  
10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95482.D\ECD1A.CH Vial: 15  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95482.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:32 pm Operator: toyar  
Sample : op46377-bs1 Inst : GCWW  
Misc : OP46377,Gww3340,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:00 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 10:59:28 2010  
Response via : Multiple Level Calibration



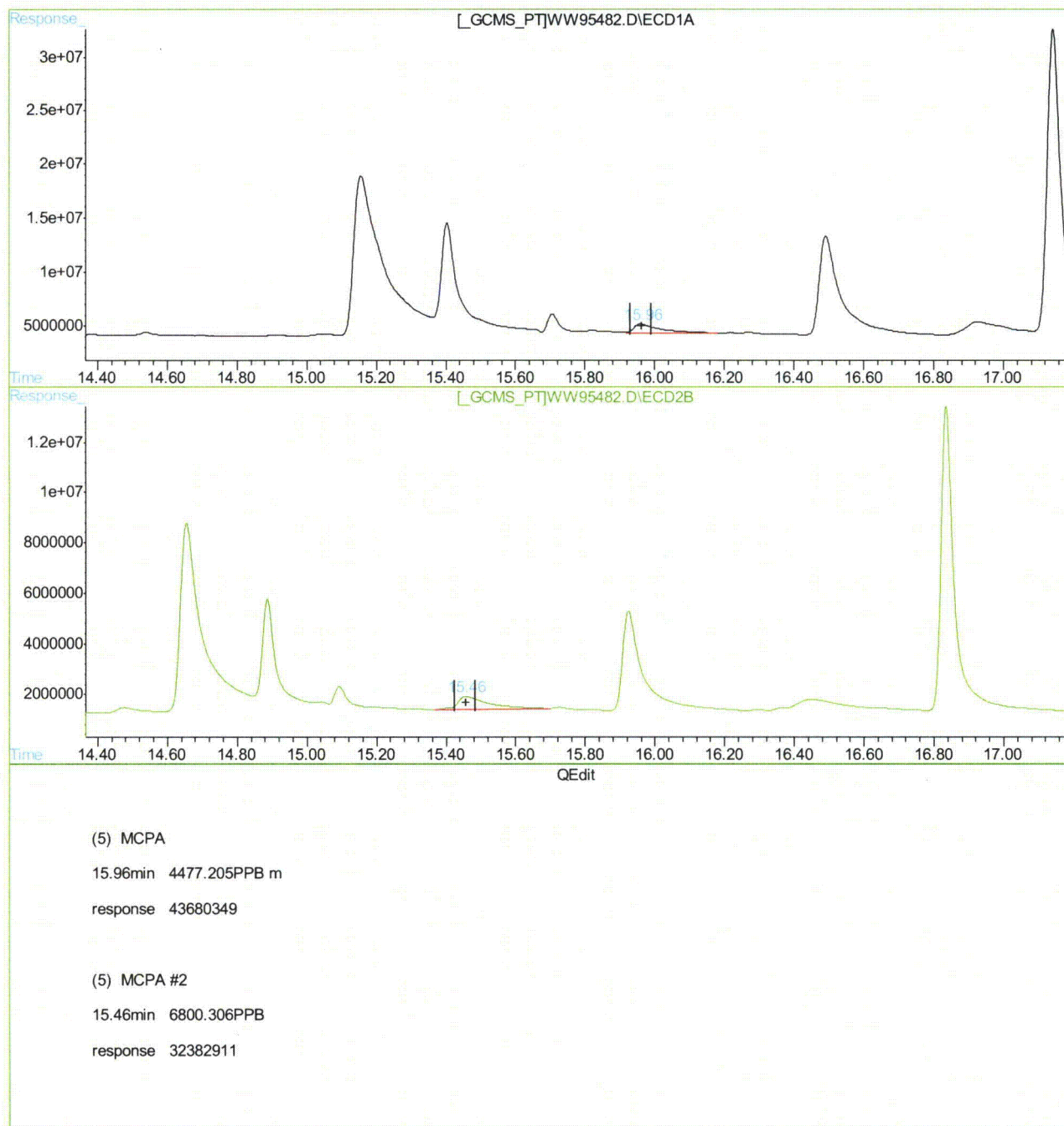
(+) = Expected Retention Time  
WW95482.D HWW3143.M Fri Oct 29 11:01:34 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95482.D\ECD1A.CH Vial: 15  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95482.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:32 pm Operator: toyar  
Sample : op46377-bs1 Inst : GCWW  
Misc : OP46377,Gww3340,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:00 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 10:59:28 2010  
Response via : Multiple Level Calibration

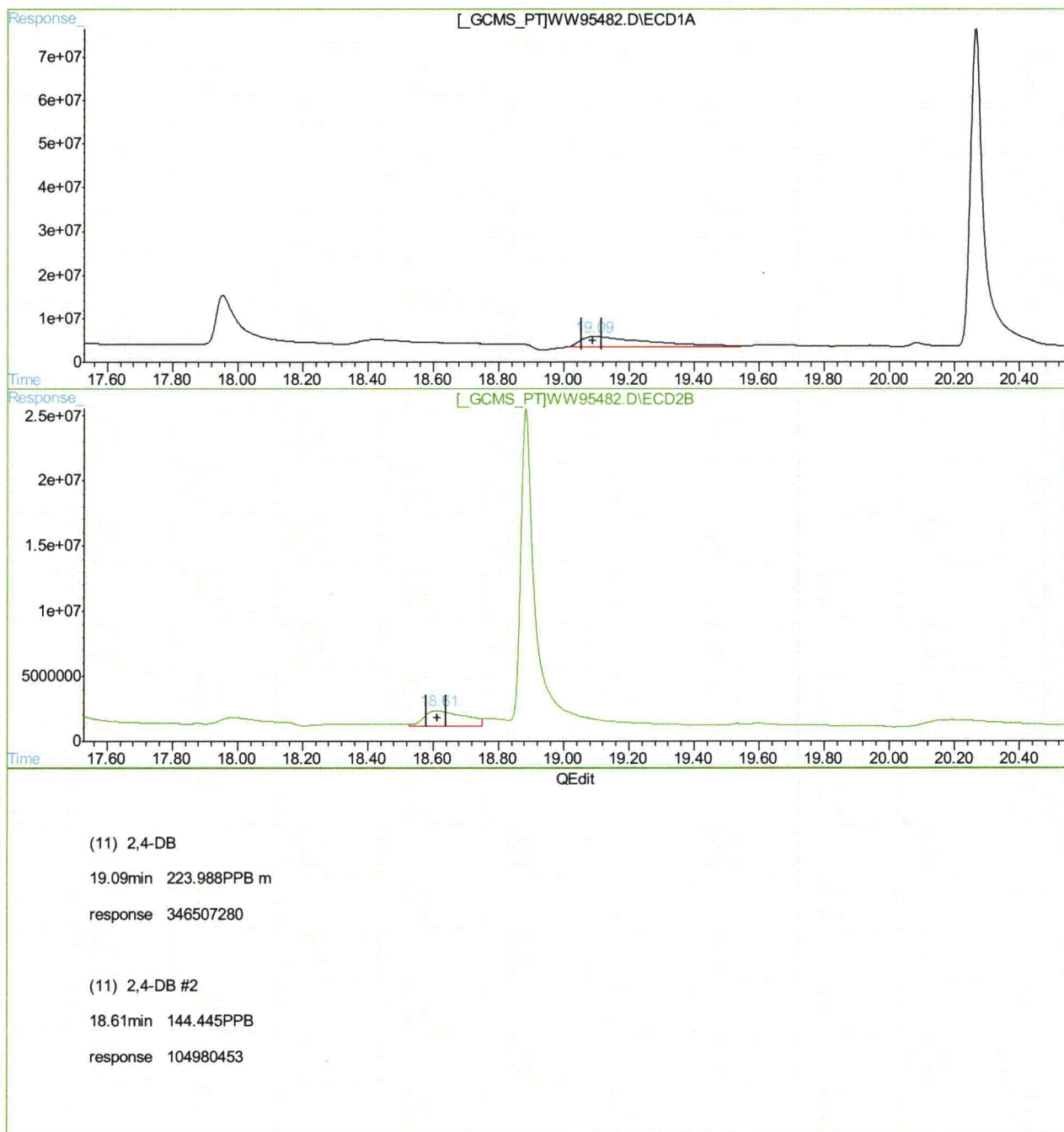


(+) = Expected Retention Time  
WW95482.D HWW3143.M Fri Oct 29 11:01:40 2010 GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95482.D\ECD1A.CH Vial: 15  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95482.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:32 pm Operator: toyar  
Sample : op46377-bs1 Inst : GCWW  
Misc : OP46377,Gww3340,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:00 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 10:59:28 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time  
WW95482.D HWW3143.M Fri Oct 29 11:01:49 2010 GCCD

Cheng-Hwan Ao  
11/29/10 16:48

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95886.D\ECD1A.CH Vial: 4  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95886.D\ECD2B.CH  
 Acq On : 12 Nov 2010 12:34 pm Operator: toyar  
 Sample : OP46441-BS1 Inst : GCWW  
 Misc : OP46441,Gww3356,35.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 16 10:02 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Tue Nov 16 09:57:44 2010  
 Response via : Initial Calibration  
 DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
 Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
2) S 2,4-DCAA	15.11	14.62	1033.9E6	393.6E6	470.155	418.766
Spiked Amount	500.000		Recovery	=	94.03%	83.75%
Target Compounds						
1) Dalapon	6.08	5.15	159.8E6	150.5E6	46.069	92.152 #
3) Dicamba	15.37	14.86	647.6E6	215.1E6	57.681	49.224
4) MCPP	15.68	15.07	67460020	29407548	13125.952	9645.344 #
5) MCPA	15.92	15.42	84132727	67898221	8623.545	14258.406 #
6) Dichloroprop	16.46	15.90	610.8E6	225.6E6	188.659	168.271
7) 2,4-D	16.86	16.39	606.1E6	236.3E6	194.636	167.195
8) Pentachloropheno	17.11	16.81	1524.4E6	504.5E6	33.559	29.443
9) 2,4,5-TP	17.92	17.40	836.8E6	273.2E6	46.843m	38.629
10) 2,4,5-T	18.33	17.92	525.2E6	174.4E6	34.379m	29.087m
11) 2,4-DB	19.00	18.53	486.6E6	163.2E6	314.553	224.596 #
12) Dinoseb	20.23	18.86	3067.9E6	502.4E6	179.495m	101.897m#
13) Picloram	20.19	20.06	524.0E6	720.9E6	31.867m	87.376 #

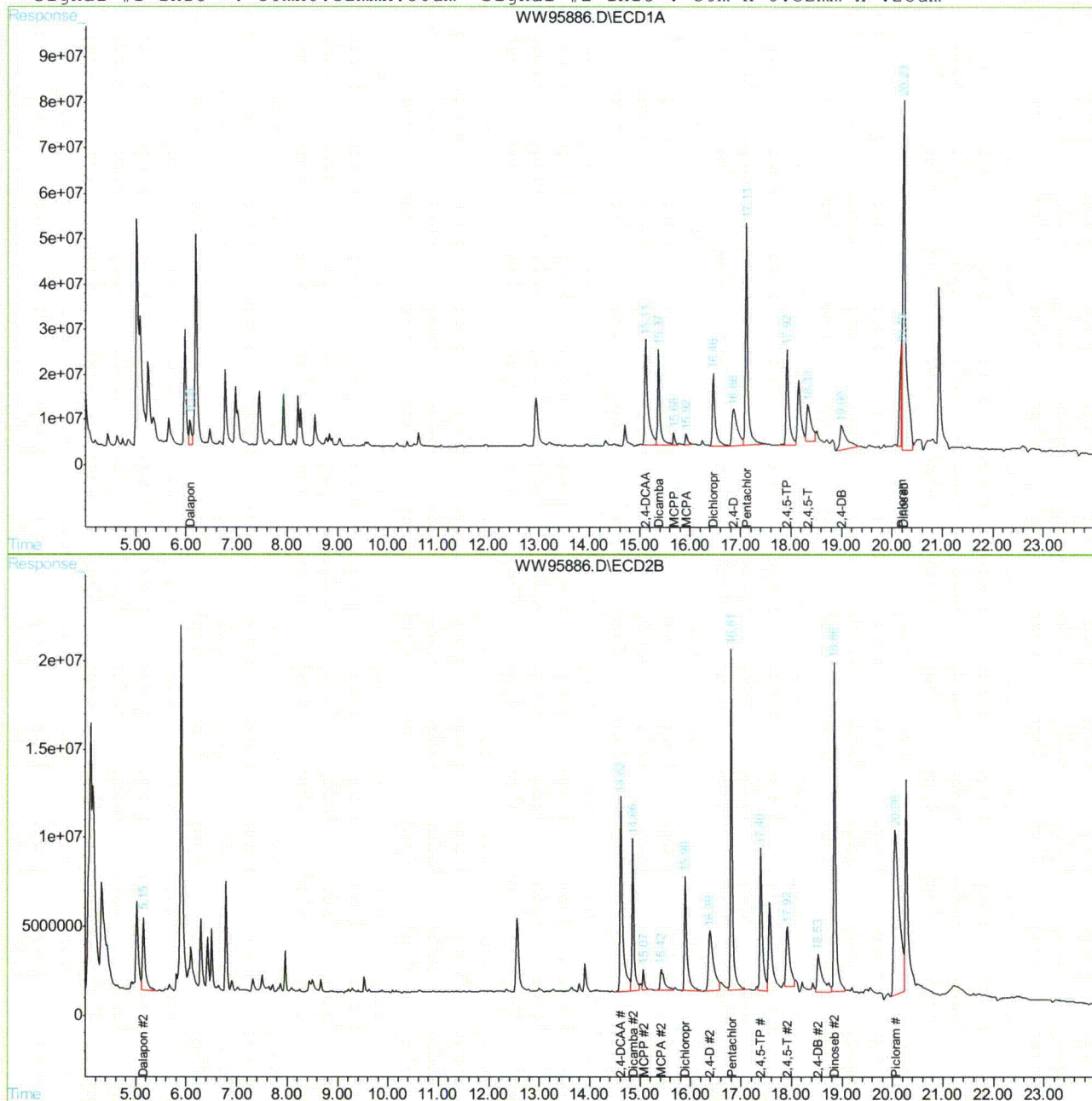
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95886.D HWW3143.M Tue Nov 16 10:03:02 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95886.D\ECD1A.CH Vial: 4  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95886.D\ECD2B.CH  
Acq On : 12 Nov 2010 12:34 pm Operator: toyar  
Sample : OP46441-BS1 Inst : GCWW  
Misc : OP46441,Gww3356,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:02 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPII Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46441-BS1  
**Lab FileID:** WW95886.D  
**Injection Time:** 11/12/10 12:34

**Method:** SW846 8151  
**Analyst approved:** 11/29/10 16:01 Toya Dagena Raffington  
**Supervisor approved:** 11/29/10 16:48 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4,5-TP (Silvex)	93-72-1	1	17.92	Poorly defined baseline
2,4,5-T	93-76-5	2	17.92	Poorly defined baseline
2,4,5-T	93-76-5	1	18.33	Poorly defined baseline
Dinoseb	88-85-7	2	18.86	Poorly defined baseline
Picloram	1918-02-1	1	20.19	Overlapping peak
Dinoseb	88-85-7	1	20.23	Overlapping peak

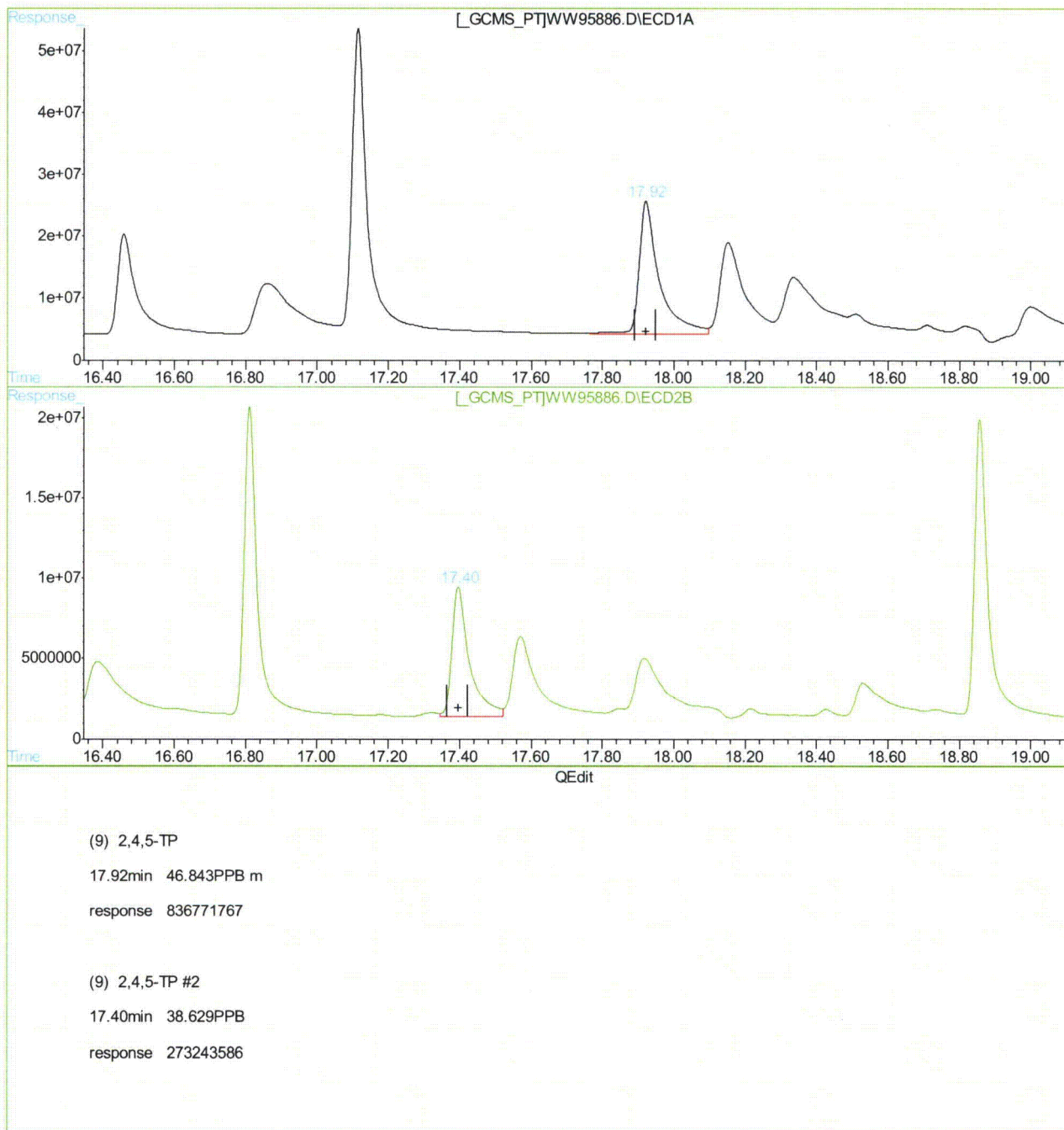
10.3.3.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95886.D\ECD1A.CH Vial: 4  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95886.D\ECD2B.CH  
Acq On : 12 Nov 2010 12:34 pm Operator: toyar  
Sample : OP46441-BS1 Inst : GCWW  
Misc : OP46441,Gww3356,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:00 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration

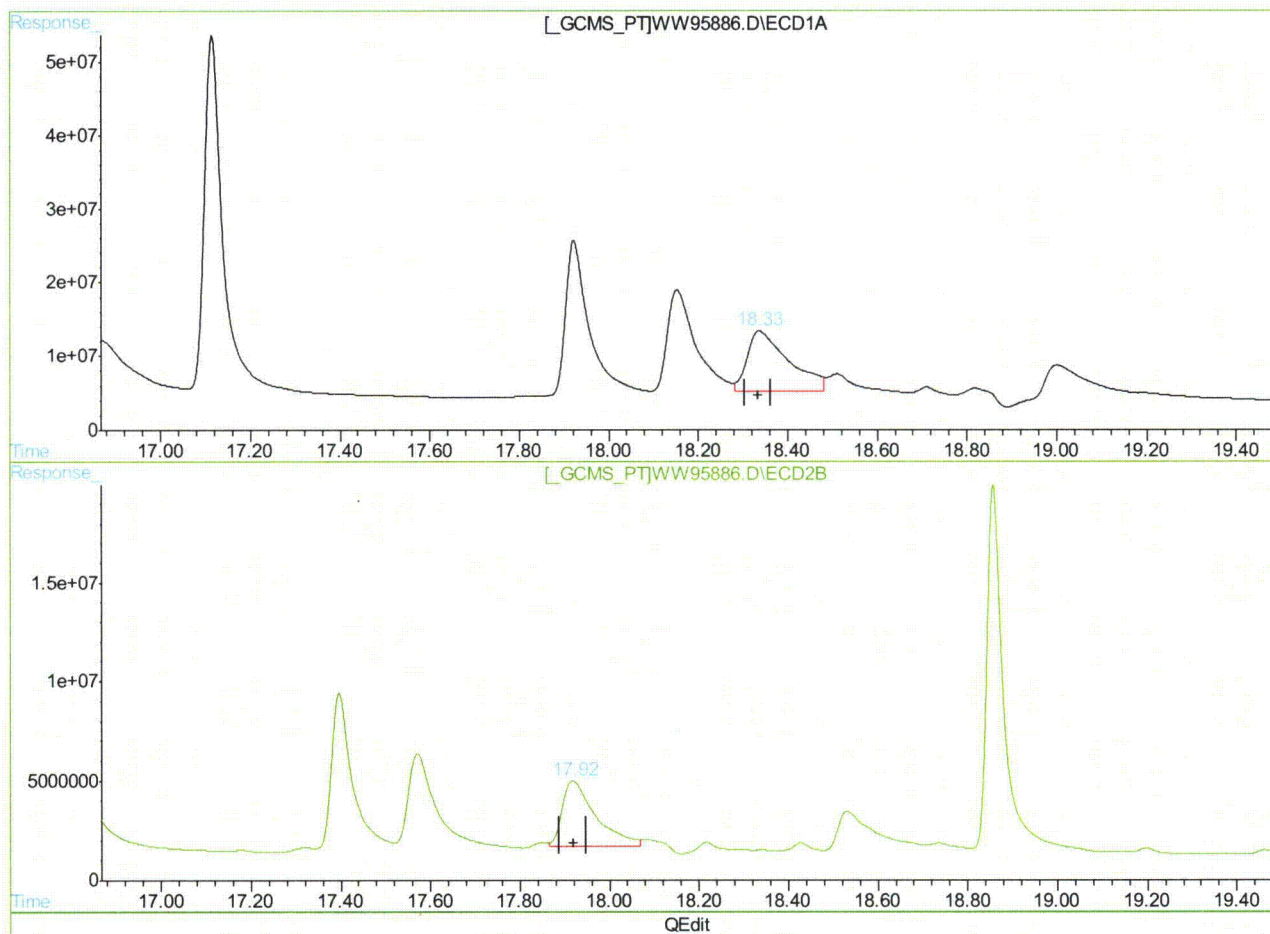


(+) = Expected Retention Time  
WW95886.D HWW3143.M Tue Nov 16 10:02:34 2010 GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95886.D\ECD1A.CH Vial: 4  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95886.D\ECD2B.CH  
Acq On : 12 Nov 2010 12:34 pm Operator: toyar  
Sample : OP46441-BS1 Inst : GCWW  
Misc : OP46441,Gww3356,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:00 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration



(10) 2,4,5-T

18.33min 34.379PPB m

response 525176674

(10) 2,4,5-T#2

17.92min 29.087PPB m

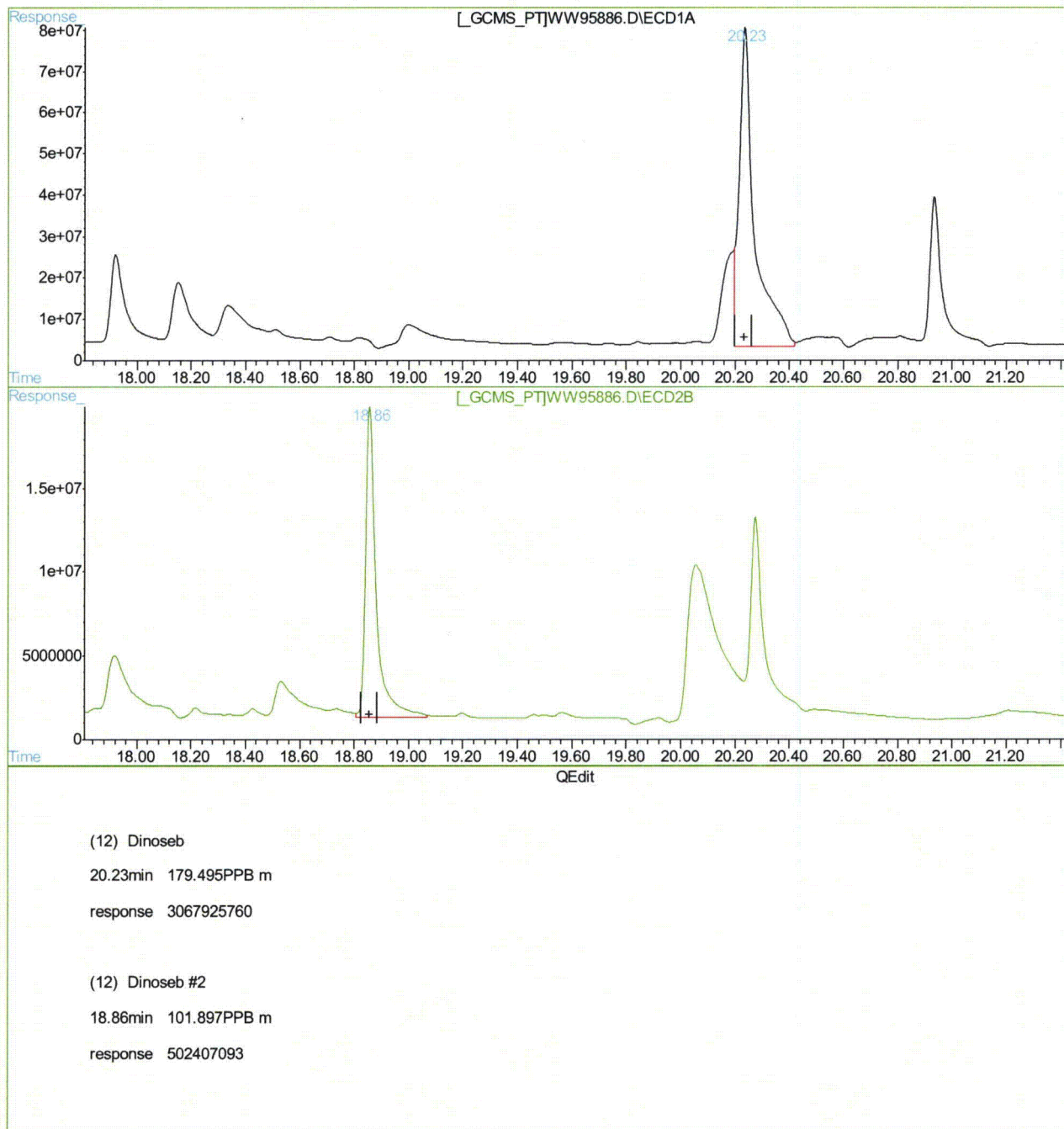
response 174429786

(+) = Expected Retention Time  
WW95886.D HWW3143.M Tue Nov 16 10:02:38 2010 GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95886.D\ECD1A.CH Vial: 4  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95886.D\ECD2B.CH  
Acq On : 12 Nov 2010 12:34 pm Operator: toyar  
Sample : OP46441-BS1 Inst : GCWW  
Misc : OP46441,Gww3356,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:00 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration



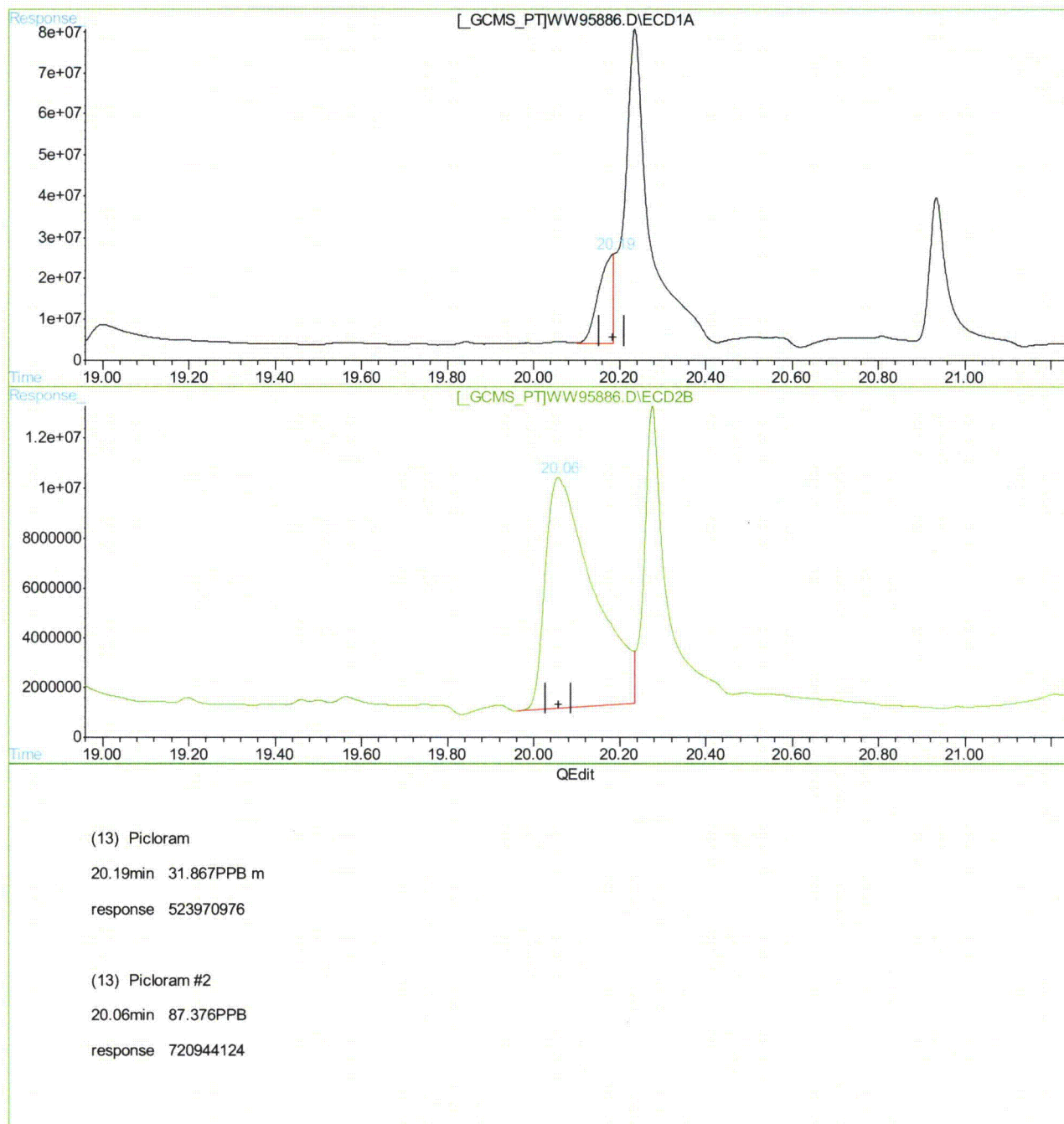
(+) = Expected Retention Time  
WW95886.D HWW3143.M Tue Nov 16 10:02:51 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95886.D\ECD1A.CH Vial: 4  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95886.D\ECD2B.CH  
Acq On : 12 Nov 2010 12:34 pm Operator: toyar  
Sample : OP46441-BS1 Inst : GCWW  
Misc : OP46441,Gww3356,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:00 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time  
WW95886.D HWW3143.M Tue Nov 16 10:02:54 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58172.D\ECD1A.CH Vial: 30  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58172.D\ECD2B.CH  
 Acq On : 10-26-10 06:51:12 PM Operator: owenm  
 Sample : op46260-bs1 Inst : GC1G  
 Misc : op46260,glg2122,1000,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 27 10:16 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Oct 20 16:45:53 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.97	2.29	792.6E6	265.9E6	36.012	37.031
Spiked Amount	40.000	Range	30 - 150	Recovery	= 90.03%	92.58%
34) SA Decachlorobiphen	8.64	10.27	1041.2E6	172.2E6	33.102	31.126
Spiked Amount	40.000	Range	30 - 150	Recovery	= 82.75%	77.81%
Target Compounds						
3) A alpha-BHC	2.32	2.77	934.0E6	217.9E6	23.542	23.398
4) MA gamma-BHC	2.55	3.10	864.1E6	203.7E6	24.111	23.433
5) MA Heptachlor	2.95	3.58	891.4E6	202.1E6	22.667	22.589
6) B beta-BHC	2.61	3.17	380.2E6	99191324	23.564	22.355
7) B delta-BHC	2.76	3.48	655.0E6	148.0E6	23.969	23.791
8) MB Aldrin	3.23	3.96	838.5E6	183.7E6	22.370	21.977
9) B Heptachlor Epoxi	3.85	4.67	838.5E6	188.5E6	23.953	23.491
10) B gamma-Chlordane	3.99	4.93	819.9E6	193.0E6	23.221	23.670
11) B alpha-Chlordane	4.15	5.13	793.2E6	181.5E6	23.404	22.667
12) A Endosulfan I	4.31	5.21	825.8E6	172.2E6	23.894	23.011
13) B 4,4'-DDE	4.24	5.37	784.3E6	176.1E6	22.707	22.876
14) MA Dieldrin	4.61	5.60	873.8E6	186.1E6	24.232	23.569
15) MA Endrin	4.91	6.05	816.4E6	173.2E6	26.041	25.517
16) A 4,4'-DDD	5.02	6.24	614.8E6	134.3E6	22.861	21.568
17) B Endosulfan II	5.21	6.38	711.9E6	155.9E6	23.375	23.025
18) MA 4,4'-DDT	5.41	6.74	605.4E6	129.5E6	25.418	24.282
19) B Endrin Aldehyde	5.81	6.91	569.1E6	113.3E6	22.082	19.021
20) B Endosulfan Sulfa	6.46	7.37	447.8E6	94135776	22.302	20.409
21) A Methoxychlor	6.17	7.91	323.9E6	76671401	25.094	25.771
23) B Endrin Ketone	6.89	8.25	650.3E6	131.5E6	23.777	21.633

(f)=RT Delta &gt; 1/2 Window

1G58172.D 1PST2096.M

Wed Oct 27 10:16:40 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58172.D\ECD1A.CH Vial: 30  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58172.D\ECD2B.CH  
Acq On : 10-26-10 06:51:12 PM Operator: owenm  
Sample : op46260-bs1 Inst : GC1G  
Misc : op46260,glg2122,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 27 10:16 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

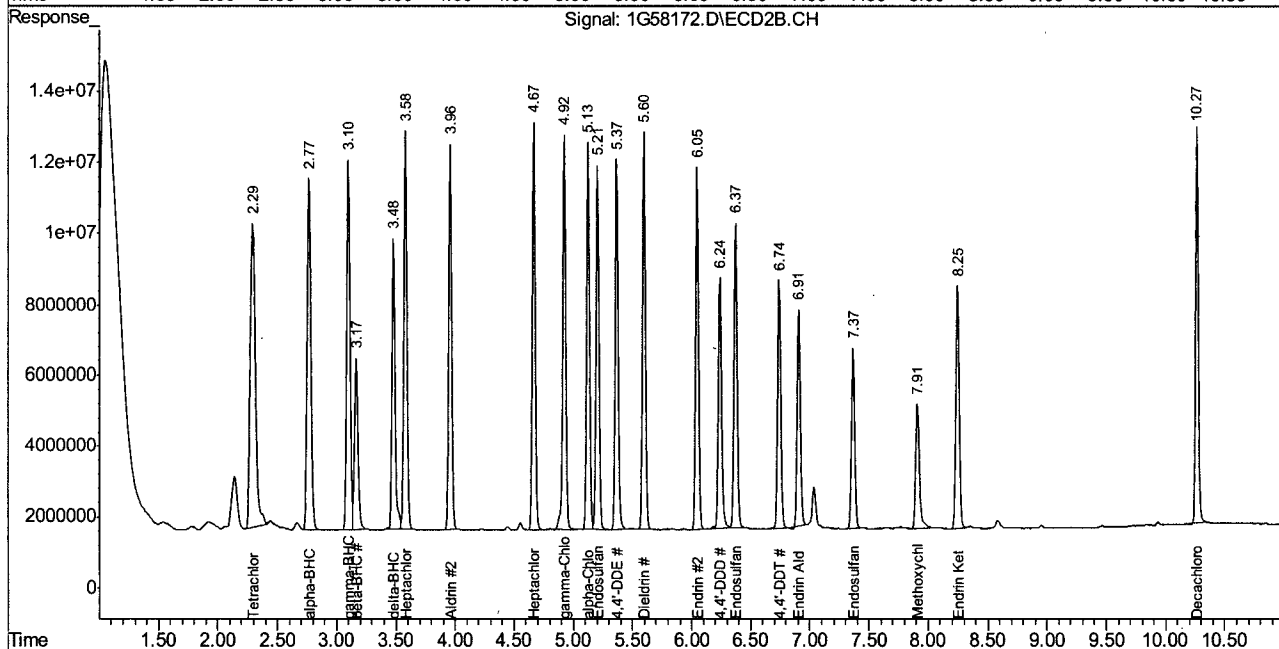
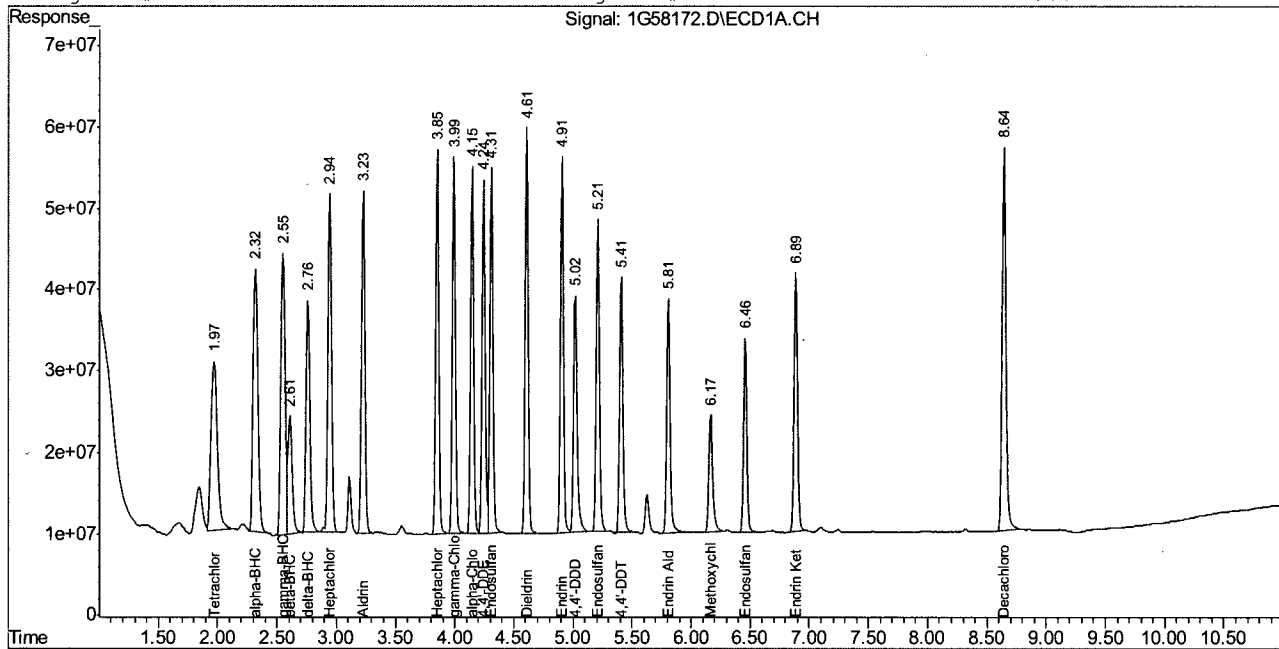
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G58172.D 1PST2096.M Wed Oct 27 10:16:41 2010 RPT1

Page 2

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g24\  
Data File : 4g783.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 27 Oct 2010 1:00 pm  
Operator : owenm  
Sample : op46373-bs1  
Misc : op46373,g4g24,17.0,,,10,1  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 27 14:14:33 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Fri Oct 22 09:47:34 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachlo...	1.981	2.341	117.3E6	98671367	35.170	34.859
Spiked Amount	40.000 Range	30 - 150	Recovery	=	87.93%	87.15%
34) SA Decachlor...	8.725	10.401f	119.4E6	76527260	38.176	37.561
Spiked Amount	40.000 Range	30 - 150	Recovery	=	95.44%	93.90%
Target Compounds						
3) A alpha-BHC	2.348	2.845	89173332	66470819	18.964	20.482
4) MA gamma-BHC	2.587	3.192	84004699	65403067	19.601	20.922
5) MA Heptachlor	2.991	3.687	86937872	63509719	19.354	19.012
6) B beta-BHC	2.648	3.259	43196699	34908535	20.430	20.420
7) B delta-BHC	2.803	3.586	87392648	70951139	20.682	23.918
8) MB Aldrin	3.278	4.077	87310464	56254586	21.413	20.932
9) B Heptachlo...	3.916	4.802f	81297917	58671873	20.331	20.130
10) B gamma-Chl...	4.057	5.062f	82299470	60652886	20.840	20.766
11) B alpha-Chl...	4.214	5.268f	80521192	58308557	20.599	20.154
12) A Endosulfan I	4.381	5.352f	77354074	53723826	20.476	20.130
13) B 4,4'-DDE	4.310	5.508f	80980697	54989623	21.693	22.709
14) MA Dieldrin	4.680	5.750f	84493152	57384808	21.236	20.623
15) MA Endrin	4.984	6.208f	82641077	55578571	22.090	21.338
16) A 4,4'-DDD	5.091	6.392f	70685520	47815203	21.953	21.515
17) B Endosulfa...	5.287	6.536f	76262772	53472104	21.279	21.119
18) MA 4,4'-DDT	5.483	6.900f	70764067	47605806	21.064	20.314
19) B Endrin Al...	5.890	7.077f	61688413	43140894	19.383	19.512
20) B Endosulfa...	6.548	7.540f	69458528	48568989	20.695	20.503
21) A Methoxychlor	6.234	8.071f	40831778	29703793	21.794	21.191
23) B Endrin Ke...	6.976	8.433f	80178769	56153909	19.171	18.579
-----						

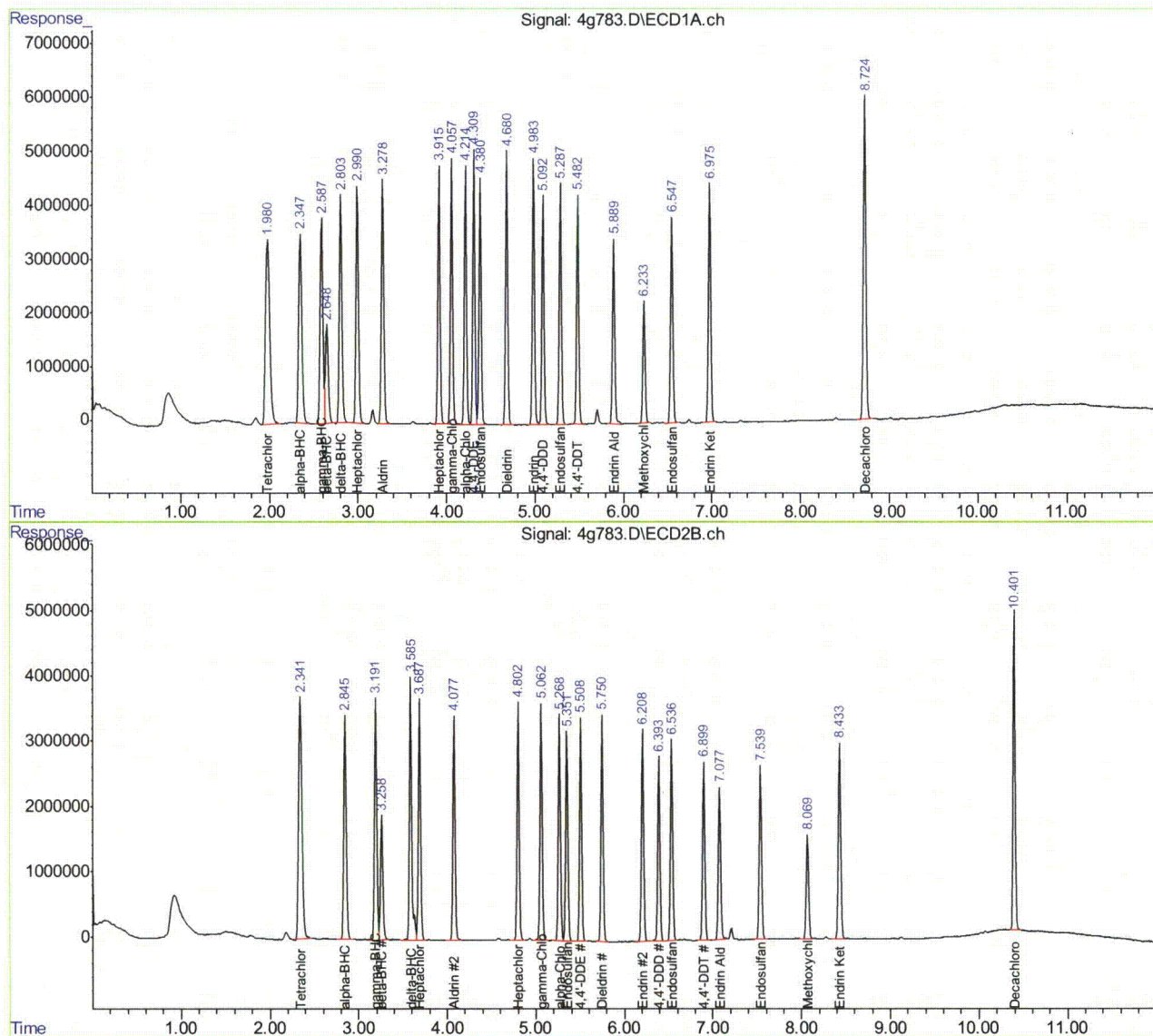
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g24\  
Data File : 4g783.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 27 Oct 2010 1:00 pm  
Operator : owenm  
Sample : op46373-bs1  
Misc : op46373,g4g24,17.0,,,10,1  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 27 14:14:33 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Fri Oct 22 09:47:34 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



10.3.5 10

Jessica Reitan-Chu  
10/21/10 17:07

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1847\3G50146.D\ECD1A.CH Vial: 15  
 Signal #2 : C:\MSDCHEM\1\DATA\1847\3G50146.D\ECD2B.CH  
 Acq On : 20 Oct 2010 12:14 pm Operator: toyar  
 Sample : op46259-bs1 Inst : GC3G  
 Misc : OP46259,g3g1847,1000,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Oct 20 12:26:53 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Wed Oct 06 13:23:17 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.18	851.5E6	653.9E6	33.982	35.460
Spiked Amount 40.000			Recovery	=	84.95%	88.65%
50) S Decachlorobiphen	9.04	9.26f	821.6E6	520.8E6	34.767	38.104
Spiked Amount 40.000			Recovery	=	86.92%	95.26%
Target Compounds						
30) AR1016-A	2.68	2.63	132.0E6	85127991	273.431	282.376
31) AR1016-B	3.05	3.03	174.8E6	132.3E6	201.939	223.070
32) AR1016-C	3.58	3.55	397.4E6	250.0E6	198.327	203.184
33) AR1016-D	3.73	3.69	155.0E6	130.6E6	205.850	240.840
34) AR1016-E	4.20	4.22	168.7E6	79737856	220.190	216.057m
35) AR1260-A	6.05	6.05	329.6E6	197.2E6	187.395	224.764
36) AR1260-B	6.41	6.48	363.0E6	253.6E6	194.406	212.843
37) AR1260-C	6.86	6.96f	216.6E6	160.7E6	189.586	228.503
38) AR1260-D	7.27	7.31	645.4E6	347.5E6	225.402	219.416
39) AR1260-E	7.64	7.76	363.2E6	195.9E6	194.302	183.040

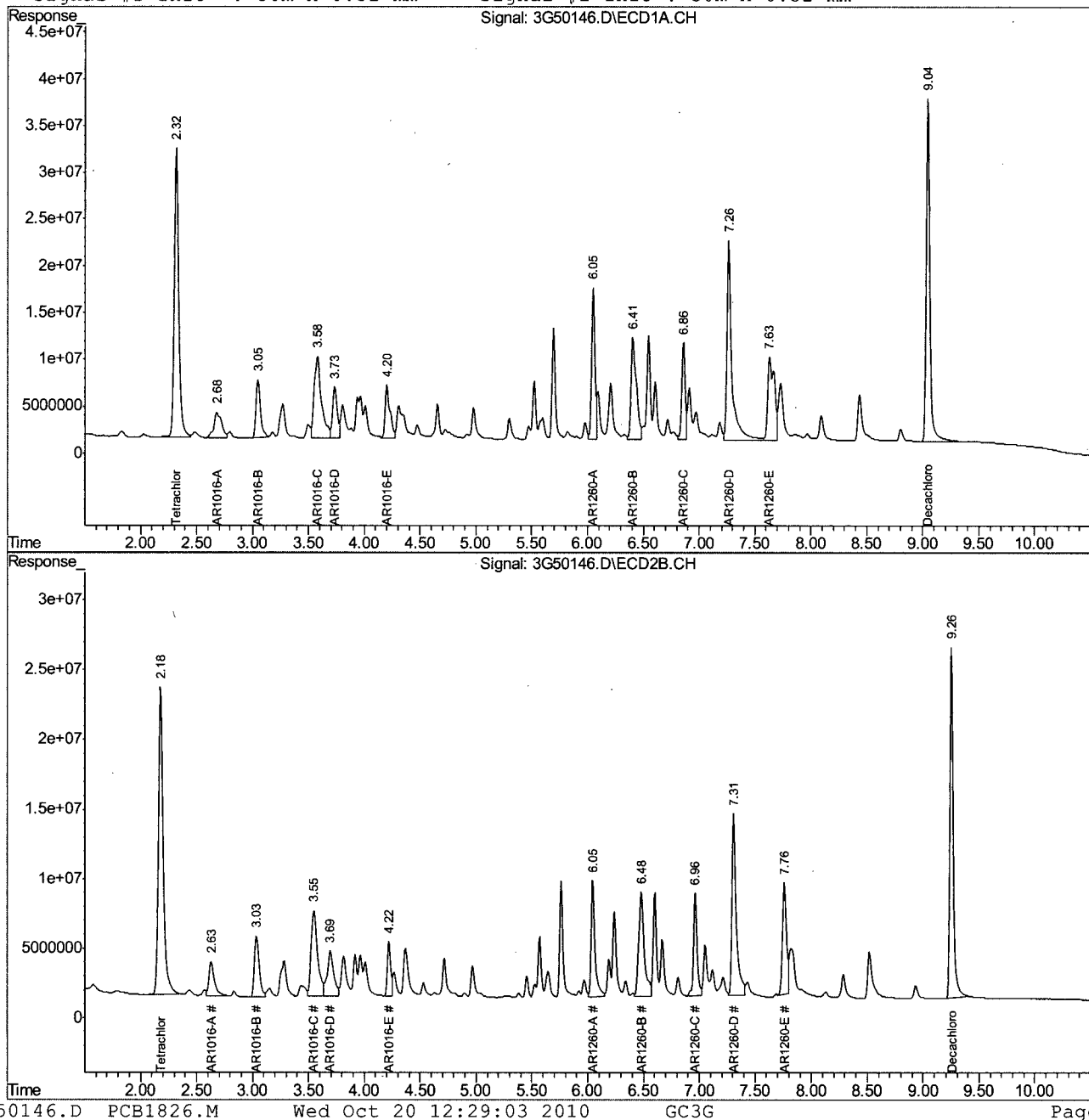
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G50146.D PCB1826.M Wed Oct 20 12:29:02 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1847\3G50146.D\ECD1A.CH Vial: 15  
Signal #2 : C:\MSDCHEM\1\DATA\1847\3G50146.D\ECD2B.CH  
Acq On : 20 Oct 2010 12:14 pm Operator: toyar  
Sample : op46259-bs1 Inst : GC3G  
Misc : OP46259,g3g1847,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Oct 20 12:28 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Wed Oct 06 13:23:17 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G50146.D PCB1826.M

Wed Oct 20 12:29:03 2010

GC3G

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46259-BS1      **Method:** SW846 8082  
**Lab FileID:** 3G50146.D      **Analyst approved:** 10/21/10 08:56 Toya Dagena Raffington  
**Injection Time:** 10/20/10 12:14      **Supervisor approved:** 10/21/10 17:07 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-E		2	4.22	Poorly defined baseline

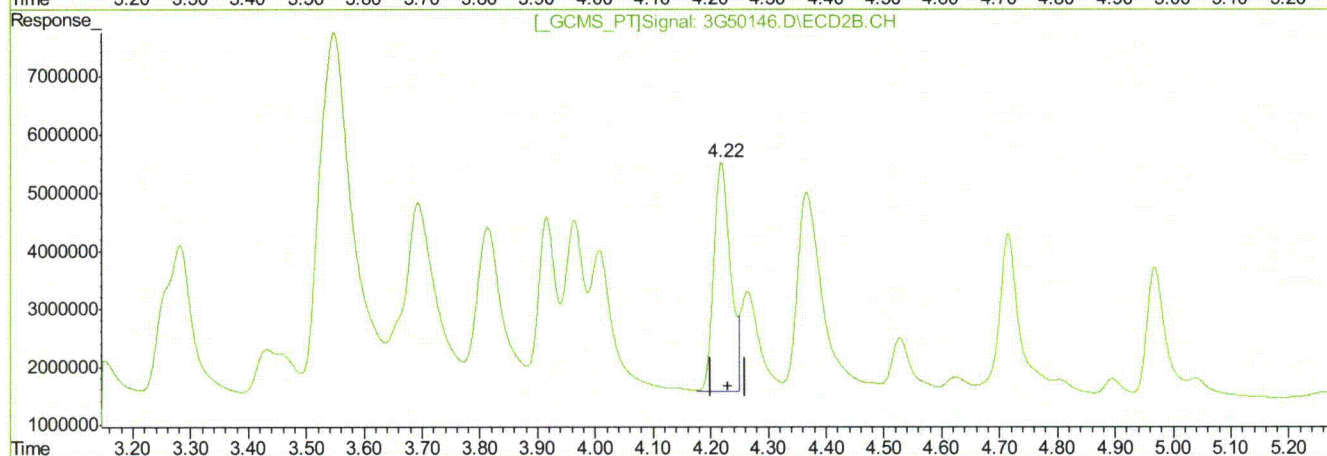
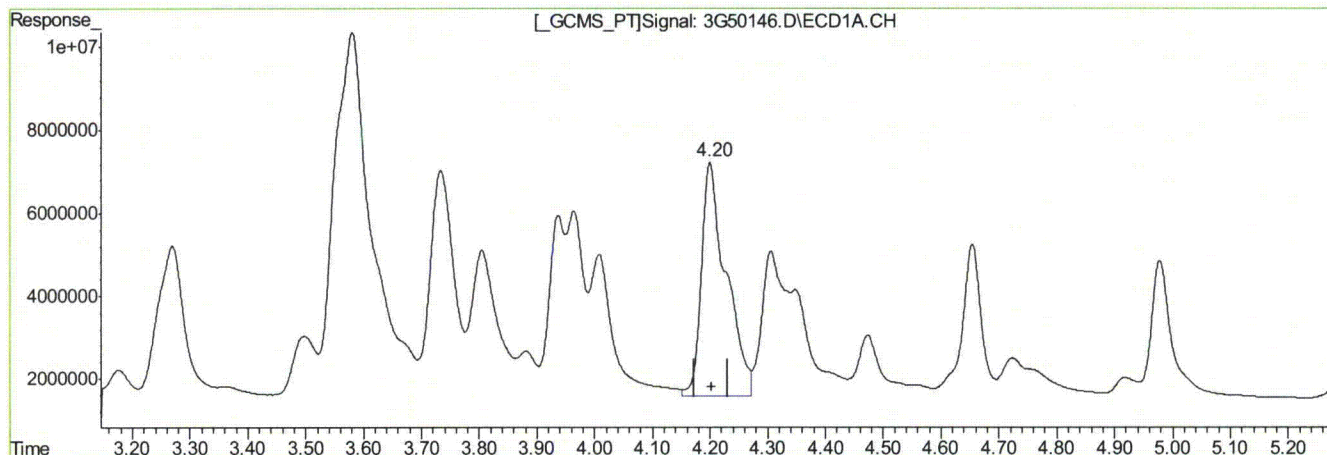
10.3.6.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1847\3G50146.D\ECD1A.CH Vial: 15  
Signal #2 : C:\MSDCHEM\1\DATA\1847\3G50146.D\ECD2B.CH  
Acq On : 20 Oct 2010 12:14 pm Operator: toyar  
Sample : op46259-bs1 Inst : GC3G  
Misc : OP46259,g3g1847,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Oct 20 12:26 2010 Quant Results File: PCB1826.RES

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Wed Oct 20 10:17:40 2010  
Response via : Multiple Level Calibration



(34) AR1016-E

4.20min 220.190PPB

response 168694768

(34) AR1016-E #2

4.22min 216.057PPB m

response 79737856

(+) = Expected Retention Time

3G50146.D PCB1826.M

Wed Oct 20 12:28:56 2010

GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93909.D\ECD1A.CH Vial: 13  
 Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93909.D\ECD2B.CH  
 Acq On : 28 Oct 2010 2:49 pm Operator: vinced  
 Sample : op46374-bs1 Inst : gcef  
 Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 1 9:22 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
 Title : GC/ECD- PCB  
 Last Update : Wed Oct 27 15:03:37 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	3.20	3.16	554521	733237	36.515	38.802
Spiked Amount 40.000			Recovery	=	91.29%	97.00%
51) S Decachlorobiphen	11.61	12.09	800560	1084656	47.051	50.819
Spiked Amount 40.000			Recovery	=	117.63%	127.05%
Target Compounds						
41) AR1016-A	3.71	3.82	98725	116148	234.431	235.477
42) AR1016-B	4.21	4.39	164554	211171	225.080	227.849
43) AR1016-C	4.91	5.07	306964	351391	219.548	220.280
44) AR1016-D	5.40	5.61	249307	220277	236.213	239.958
45) AR1016-E	5.72	5.95	133289	173477	228.778	229.017
46) AR1260-A	8.01	8.20	402920	327088	255.816	242.079
47) AR1260-B	8.44	8.74	290326	364119	222.634	219.631
48) AR1260-C	8.99	9.33	175015	240062	234.310	228.755
49) AR1260-D	9.47	9.73	432915	536037	243.996	248.286
50) AR1260-E	9.93	10.29	406104	495847	229.361	226.838

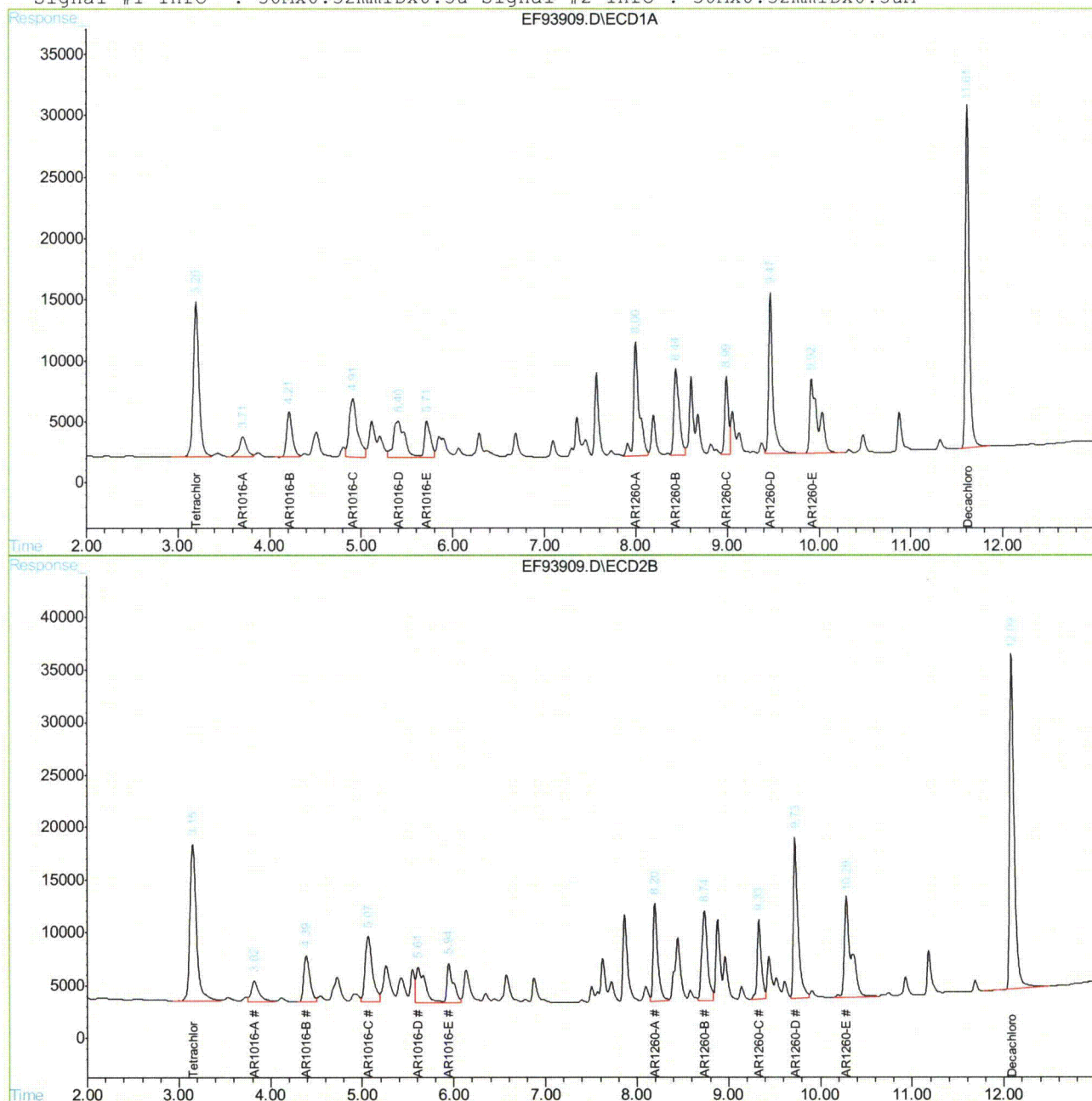
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 EF93909.D PCB4061.M Mon Nov 01 09:23:03 2010 GCEF

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93909.D\ECD1A.CH Vial: 13  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93909.D\ECD2B.CH  
Acq On : 28 Oct 2010 2:49 pm Operator: vinned  
Sample : op46374-bs1 Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 1 9:22 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Wed Oct 27 15:03:37 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



EF93909.D PCB4061.M

Mon Nov 01 09:23:04 2010

GCEF

Page 2

Cheng-Hwan Ao  
10/19/10 11:10

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95126.D\ECD1A.CH Vial: 22  
Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95126.D\ECD2B.CH  
Acq On : 14 Oct 2010 8:45 pm Operator: toyar  
Sample : OP46107-MS Inst : GCWW  
Misc : OP46107,Gww3324,500,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 19 8:56 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 15 09:33:23 2010  
Response via : Initial Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
----------	------	------	--------	--------	-----	-----

## System Monitoring Compounds

2) S	2,4-DCAA	15.13	14.63	1039.6E6	412.8E6	472.743	439.199
Spiked Amount		500.000		Recovery		=	94.55% 87.84%

## Target Compounds

1)	Dalapon	6.09	5.17	98269227	56071545	28.330	34.324
3)	Dicamba	15.39	14.88	648.1E6	256.3E6	57.723	58.659
4)	MCPFP	15.70	15.08	80360252	29452311	15635.999	9660.025 #
5)	MCPA	15.93	15.43	82120508	36087089	8417.294	7578.172
6)	Dichloroprop	16.48	15.91	502.4E6	200.4E6	155.180	149.429
7)	2,4-D	16.85	16.37	483.9E6	218.2E6	155.386	154.422
8)	Pentachloropheno	17.13	16.83	1048.4E6	354.1E6	23.080	20.666
9)	2,4,5-TP	17.93	17.40	648.3E6	209.1E6	36.293	29.554
10)	2,4,5-T	18.33	17.91	472.6E6	190.3E6	30.938m	31.731
11)	2,4-DB	19.00	18.54	261.0E6	90913096	168.721	125.089 #
12)	Dinoseb	20.26	18.87	2629.9E6	649.9E6	153.869	131.815
13)	Picloram	20.17	20.04	819.1E6	635.5E6	49.819	77.016 #

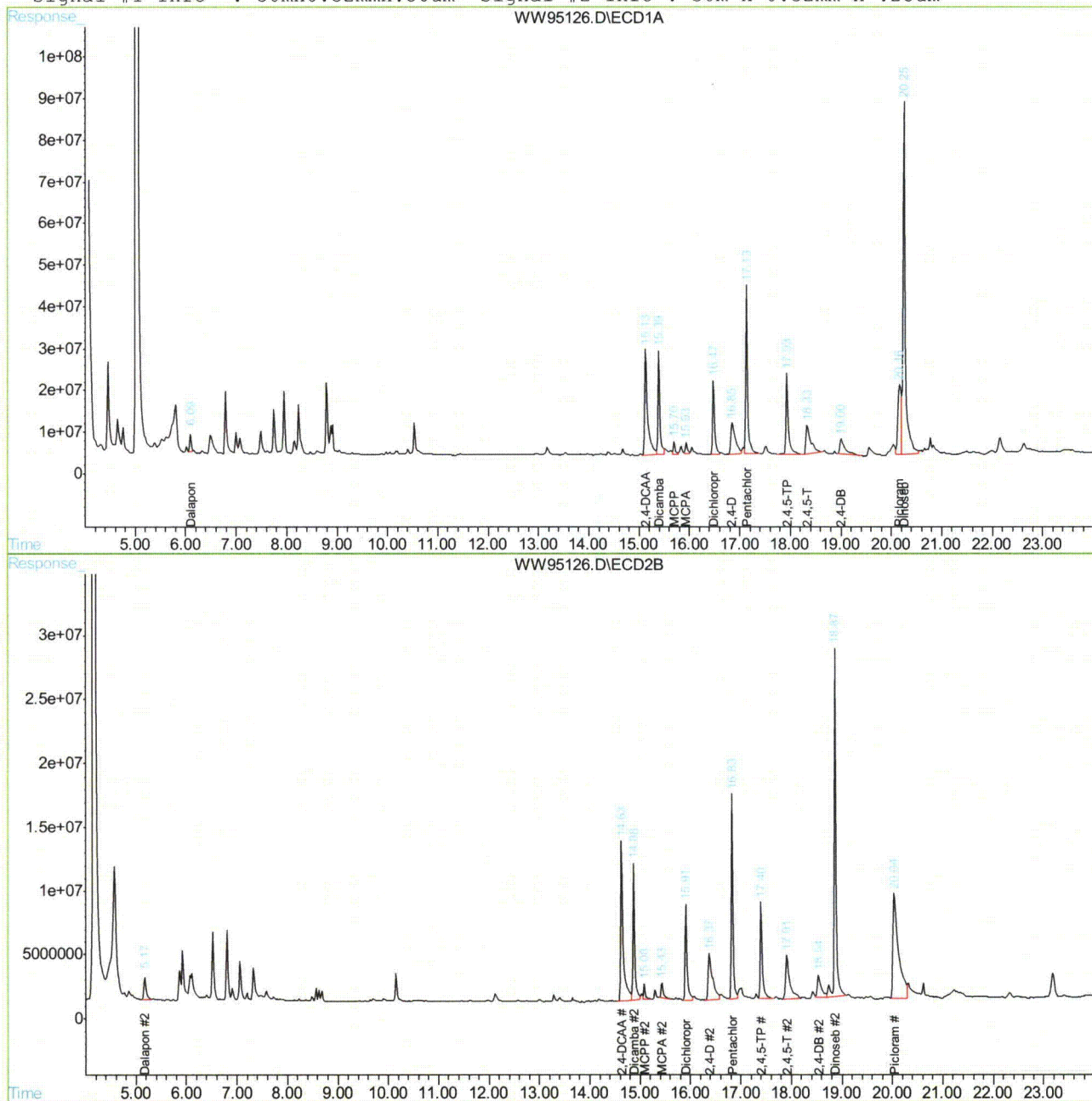
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
WW95126.D HWW3143.M Tue Oct 19 08:56:54 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95126.D\ECD1A.CH Vial: 22  
Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95126.D\ECD2B.CH  
Acq On : 14 Oct 2010 8:45 pm Operator: toyar  
Sample : OP46107-MS Inst : GCWW  
Misc : OP46107,Gww3324,500,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 19 8:56 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 15 09:33:23 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



WW95126.D HWW3143.M

Tue Oct 19 08:56:54 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46107-MS      **Method:** SW846 8151  
**Lab FileID:** WW95126.D      **Analyst approved:** 10/19/10 08:55 Toya Dagena Raffington  
**Injection Time:** 10/14/10 20:45      **Supervisor approved:** 10/19/10 11:10 Cheng-Hwan Ao

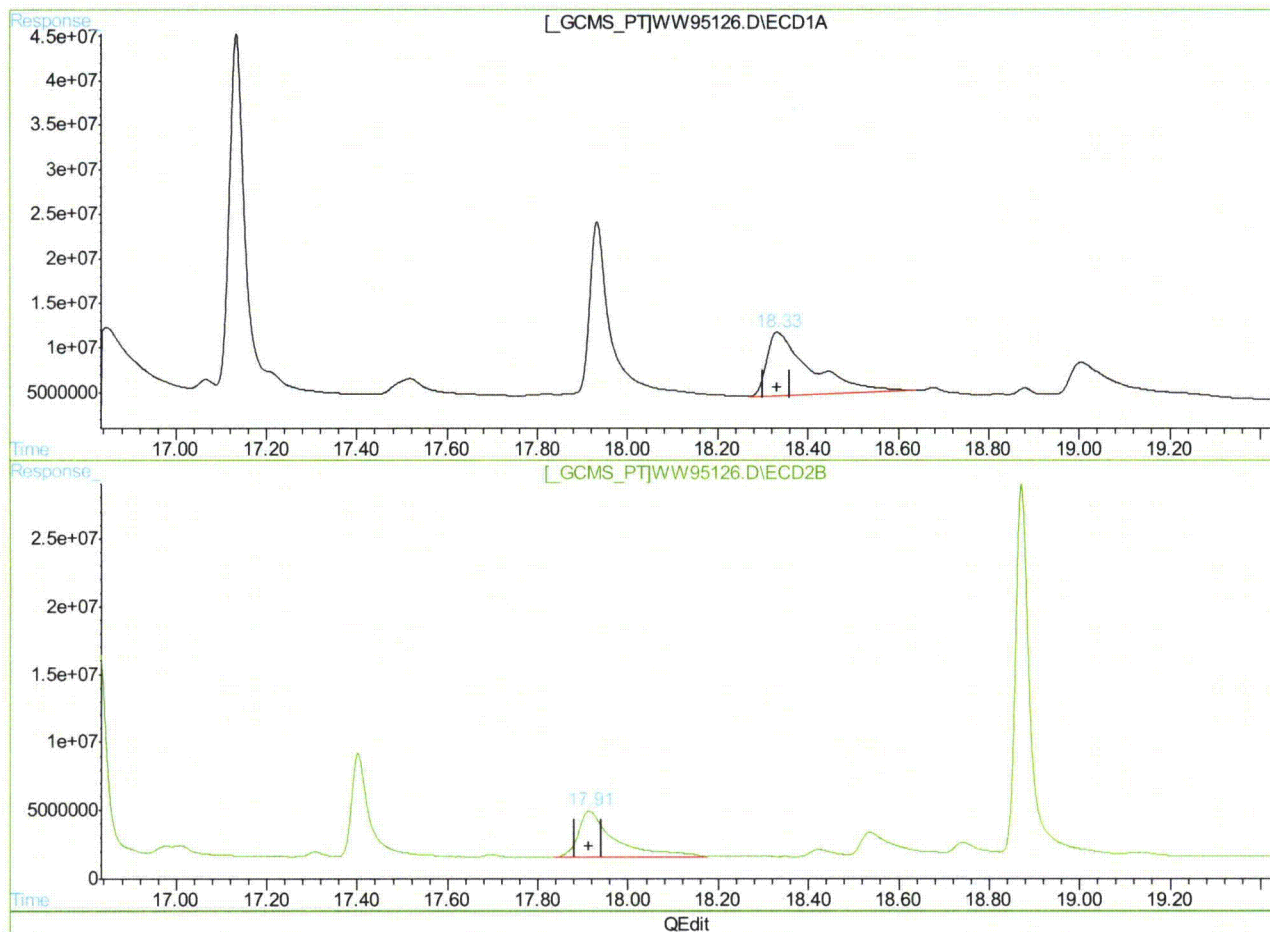
Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4,5-T	93-76-5	1	18.33	Poor instrument integration

10.4.1.1  
10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95126.D\ECD1A.CH Vial: 22  
Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95126.D\ECD2B.CH  
Acq On : 14 Oct 2010 8:45 pm Operator: toyar  
Sample : OP46107-MS Inst : GCWW  
Misc : OP46107,Gww3324,500,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 15 9:34 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 08 10:13:02 2010  
Response via : Multiple Level Calibration



(10) 2,4,5-T  
18.33min 30.938PPB m  
response 472619444

(10) 2,4,5-T#2  
17.91min 31.731PPB  
response 190285128

(+) = Expected Retention Time  
WW95126.D HWW3143.M Tue Oct 19 08:56:47 2010

GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95127.D\ECD1A.CH Vial: 23  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95127.D\ECD2B.CH  
 Acq On : 14 Oct 2010 9:15 pm Operator: toyar  
 Sample : OP46107-MSD Inst : GCWW  
 Misc : OP46107,Gww3324,500,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 15 9:35 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Fri Oct 15 09:33:23 2010  
 Response via : Initial Calibration  
 DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLPII Signal #2 Phase: RTXCLPII  
 Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
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## System Monitoring Compounds

2) S 2,4-DCAA	15.13	14.63	1085.3E6	418.8E6	493.537	445.567
Spiked Amount	500.000		Recovery	=	98.71%	89.11%

## Target Compounds

1) Dalapon	6.09	5.17	88210345	49460382	25.430	30.277
3) Dicamba	15.39	14.88	718.8E6	257.3E6	64.023	58.883
4) MCPP	15.70	15.09	54137520	23577682	10533.743	7733.214 #
5) MCPA	15.94	15.43	70983368	49199871	7275.745	10331.814 #
6) Dichloroprop	16.48	15.91	530.7E6	207.5E6	163.941	154.752
7) 2,4-D	16.85	16.38	547.9E6	238.6E6	175.945	168.822m
8) Pentachloropheno	17.13	16.83	1170.0E6	381.6E6	25.757	22.269
9) 2,4,5-TP	17.93	17.40	712.6E6	233.4E6	39.890	33.000
10) 2,4,5-T	18.33	17.92	617.5E6	216.8E6	40.424m	36.152
11) 2,4-DB	19.01	18.54	251.0E6	101.3E6	162.249	139.376
12) Dinoseb	20.26	18.88	2619.7E6	698.5E6	153.269	141.674
13) Picloram	20.17	20.04	879.8E6	674.7E6	53.510	81.767 #

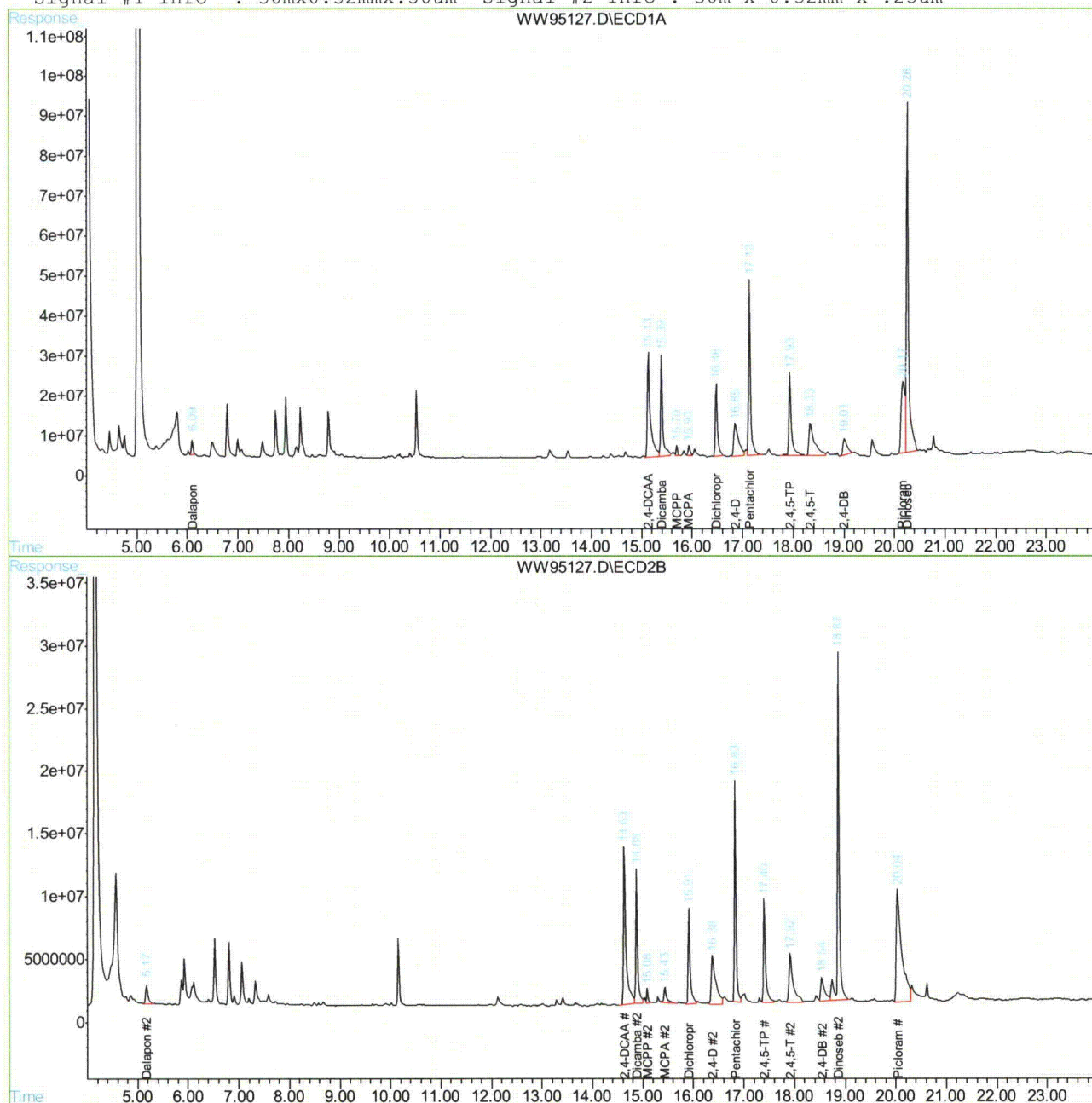
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95127.D HWW3143.M Tue Oct 19 08:56:32 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95127.D\ECD1A.CH Vial: 23  
Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95127.D\ECD2B.CH  
Acq On : 14 Oct 2010 9:15 pm Operator: toyar  
Sample : OP46107-MSD Inst : GCWW  
Misc : OP46107,Gww3324,500,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 15 9:35 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 15 09:33:23 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



WW95127.D HWW3143.M

Tue Oct 19 08:56:32 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46107-MSD

**Method:** SW846 8151

**Lab FileID:** WW95127.D

**Analyst approved:** 10/19/10 08:55 Toya Dagena Raffington

**Injection Time:** 10/14/10 21:15

**Supervisor approved:** 10/19/10 11:10 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4-D	94-75-7	2	16.38	Poorly defined baseline
2,4,5-T	93-76-5	1	18.33	Poor instrument integration

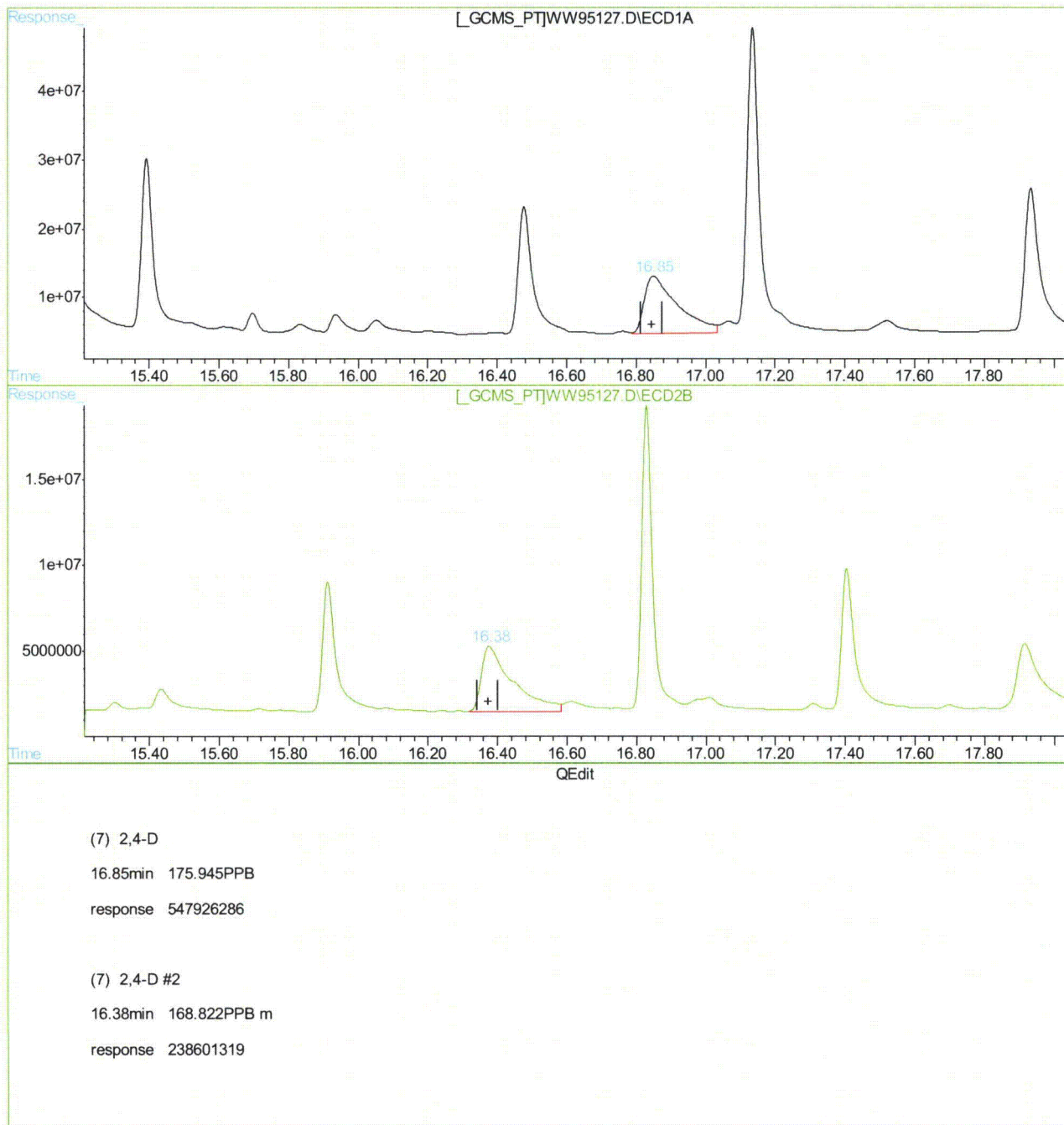
10.4.2.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95127.D\ECD1A.CH Vial: 23  
Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95127.D\ECD2B.CH  
Acq On : 14 Oct 2010 9:15 pm Operator: toyar  
Sample : OP46107-MSD Inst : GCWW  
Misc : OP46107,Gww3324,500,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 15 9:34 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 15 09:33:23 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time

WW95127.D HWW3143.M

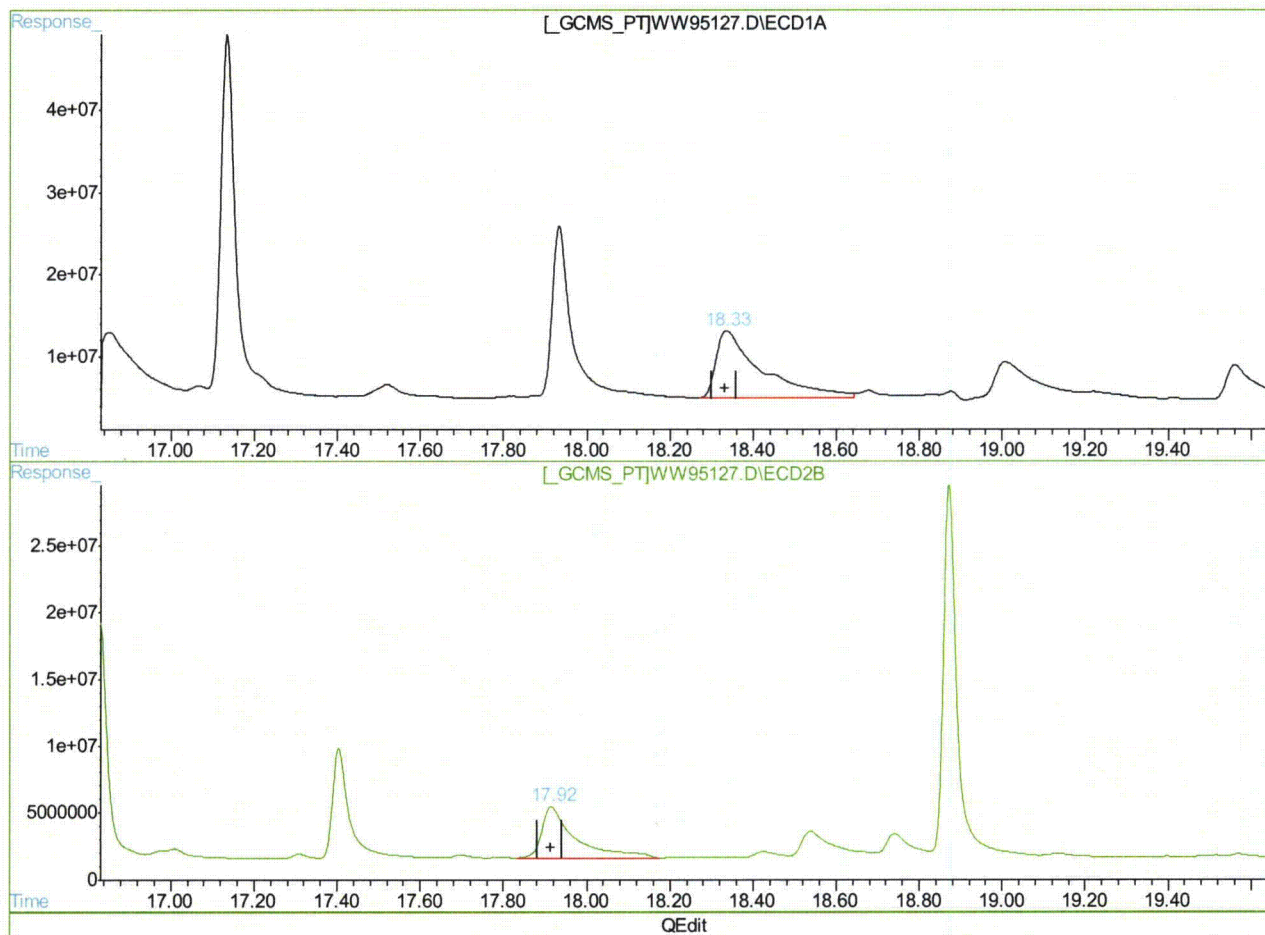
Fri Oct 15 09:35:27 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95127.D\ECD1A.CH Vial: 23  
Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95127.D\ECD2B.CH  
Acq On : 14 Oct 2010 9:15 pm Operator: toyar  
Sample : OP46107-MSD Inst : GCWW  
Misc : OP46107,Gww3324,500,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 15 9:34 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 15 09:33:23 2010  
Response via : Multiple Level Calibration



(10) 2,4,5-T

18.33min 40.424PPB m

response 617528928

(10) 2,4,5-T #2

17.92min 36.152PPB

response 216795084

(+) = Expected Retention Time

WW95127.D HWW3143.M

Fri Oct 15 09:35:42 2010

GCCD

Cheng-Hwan Ao  
11/11/10 15:43

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD1A.CH Vial: 16  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD2B.CH  
 Acq On : 28 Oct 2010 7:51 pm Operator: toyar  
 Sample : op46377-ms Inst : GCWW  
 Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 29 11:11 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Fri Oct 29 11:09:43 2010  
 Response via : Initial Calibration  
 DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
 Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
2) S 2,4-DCAA	15.14	14.64	914.9E6	286.3E6	416.059	304.640 #
Spiked Amount	500.000		Recovery	=	83.21%	60.93%
Target Compounds						
1) Dalapon	6.10	5.17	117.3E6	101.9E6	33.808	62.375 #
3) Dicamba	15.40	14.88	598.4E6	231.6E6	53.298	53.010
4) MCPP	15.70	15.09	47320966	18439050	9207.420	6047.800 #
5) MCPA	15.94	15.44	71384617	39331301	7316.873	8259.446m
6) Dichloroprop	16.48	15.92	504.7E6	192.5E6	155.908	143.592
7) 2,4-D	16.86	16.39	458.5E6	223.0E6	147.234m	157.809m
8) Pentachloropheno	17.14	16.83	776.8E6	251.7E6	17.102	14.686m
9) 2,4,5-TP	17.94	17.41	647.3E6	254.9E6	36.238m	36.039
10) 2,4,5-T	18.36	17.93	530.0E6	167.6E6	34.697m	27.951m
11) 2,4-DB	19.03	18.55	292.0E6	75171048	188.732	103.429 #
12) Dinoseb	20.26	18.88	3187.9E6	688.3E6	186.516	139.598 #

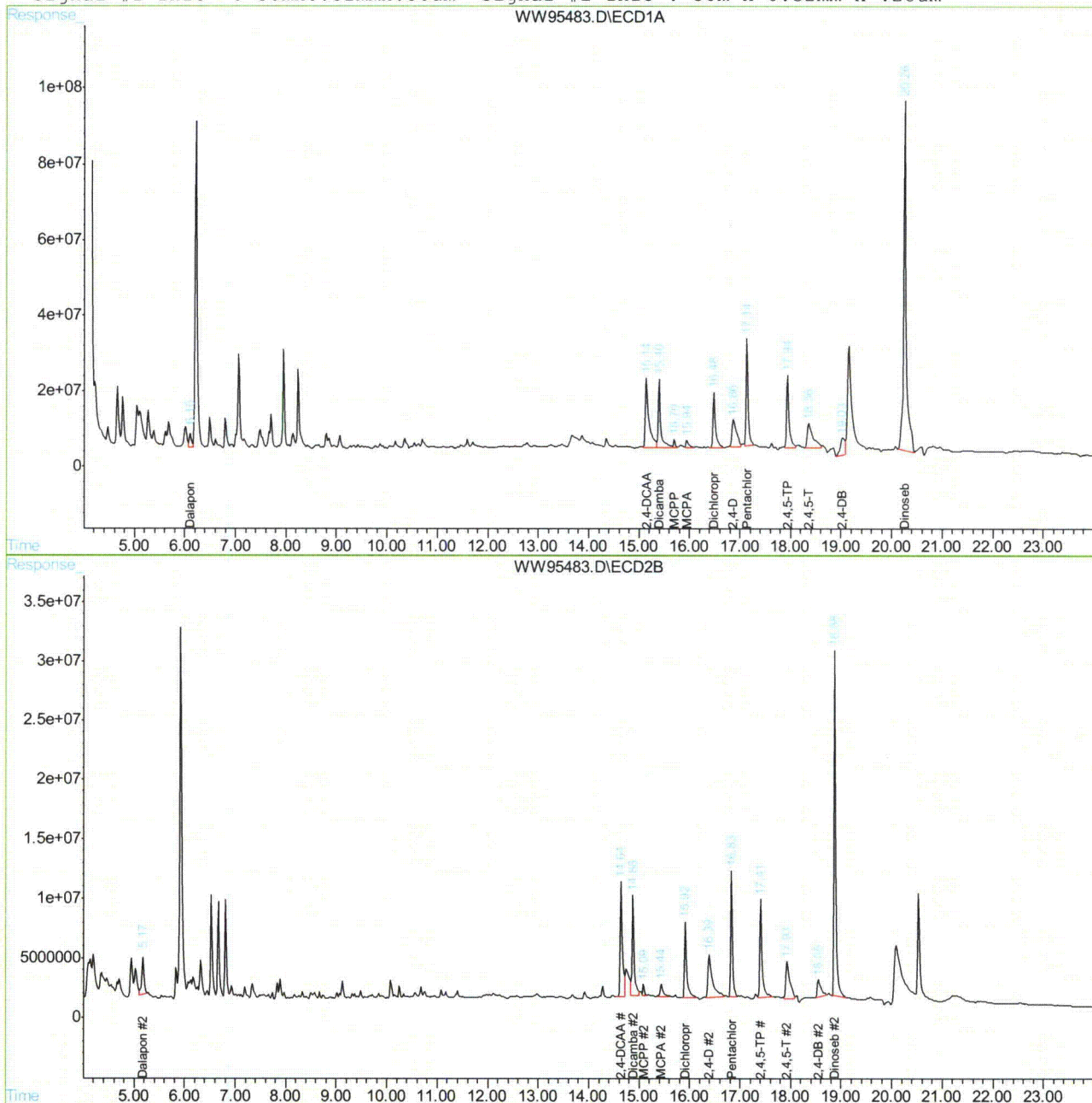
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95483.D HWW3143.M Fri Oct 29 11:12:00 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD1A.CH Vial: 16  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:51 pm Operator: toyar  
Sample : op46377-ms Inst : GCWW  
Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:11 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 11:09:43 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



WW95483.D HWW3143.M

Fri Oct 29 11:12:01 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46377-MS  
**Lab FileID:** WW95483.D  
**Injection Time:** 10/28/10 19:51

**Method:** SW846 8151  
**Analyst approved:** 11/11/10 15:41 Cheng-Hwan Ao  
**Supervisor approved:** 11/11/10 15:43 Cheng-Hwan Ao

Parameter	CAS	Sig#	R. T. (min.)	Reason
MCPA	94-74-6	2	15.44	Poorly defined baseline
2,4-D	94-75-7	2	16.39	Poorly defined baseline
Pentachlorophenol	87-86-5	2	16.83	Poorly defined baseline
2,4-D	94-75-7	1	16.86	Poorly defined baseline
2,4,5-T	93-76-5	2	17.93	Poorly defined baseline
2,4,5-TP (Silvex)	93-72-1	1	17.94	Poorly defined baseline
2,4,5-T	93-76-5	1	18.36	Poorly defined baseline

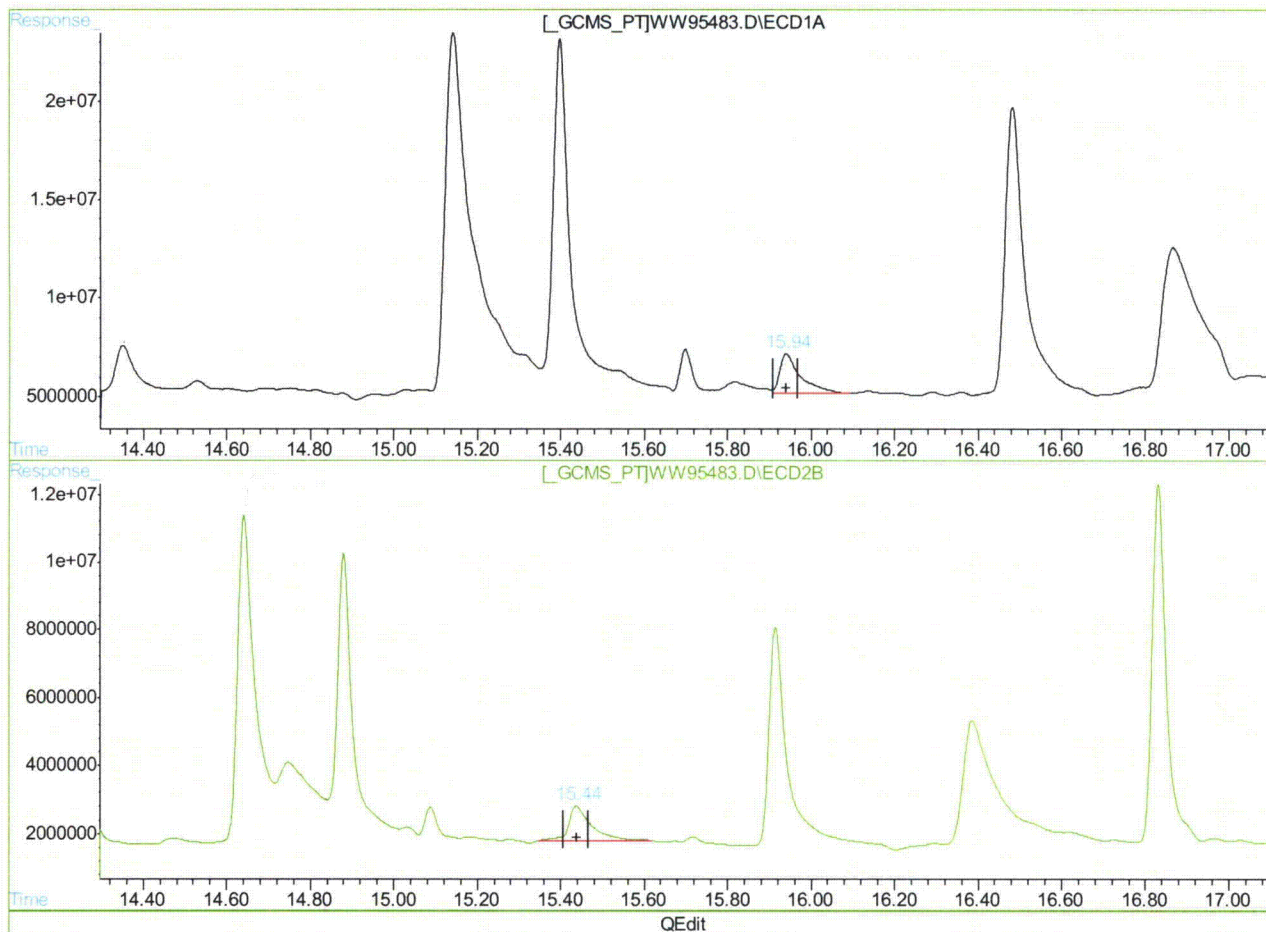
10.4.3.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD1A.CH Vial: 16  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:51 pm Operator: toyar  
Sample : op46377-ms Inst : GCWW  
Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:10 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 11:09:43 2010  
Response via : Multiple Level Calibration



(5) MCPA

15.94min 7316.873PPB

response 71384617

(5) MCPA #2

15.44min 8259.446PPB m

response 39331301

(+) = Expected Retention Time  
WW95483.D HWW3143.M

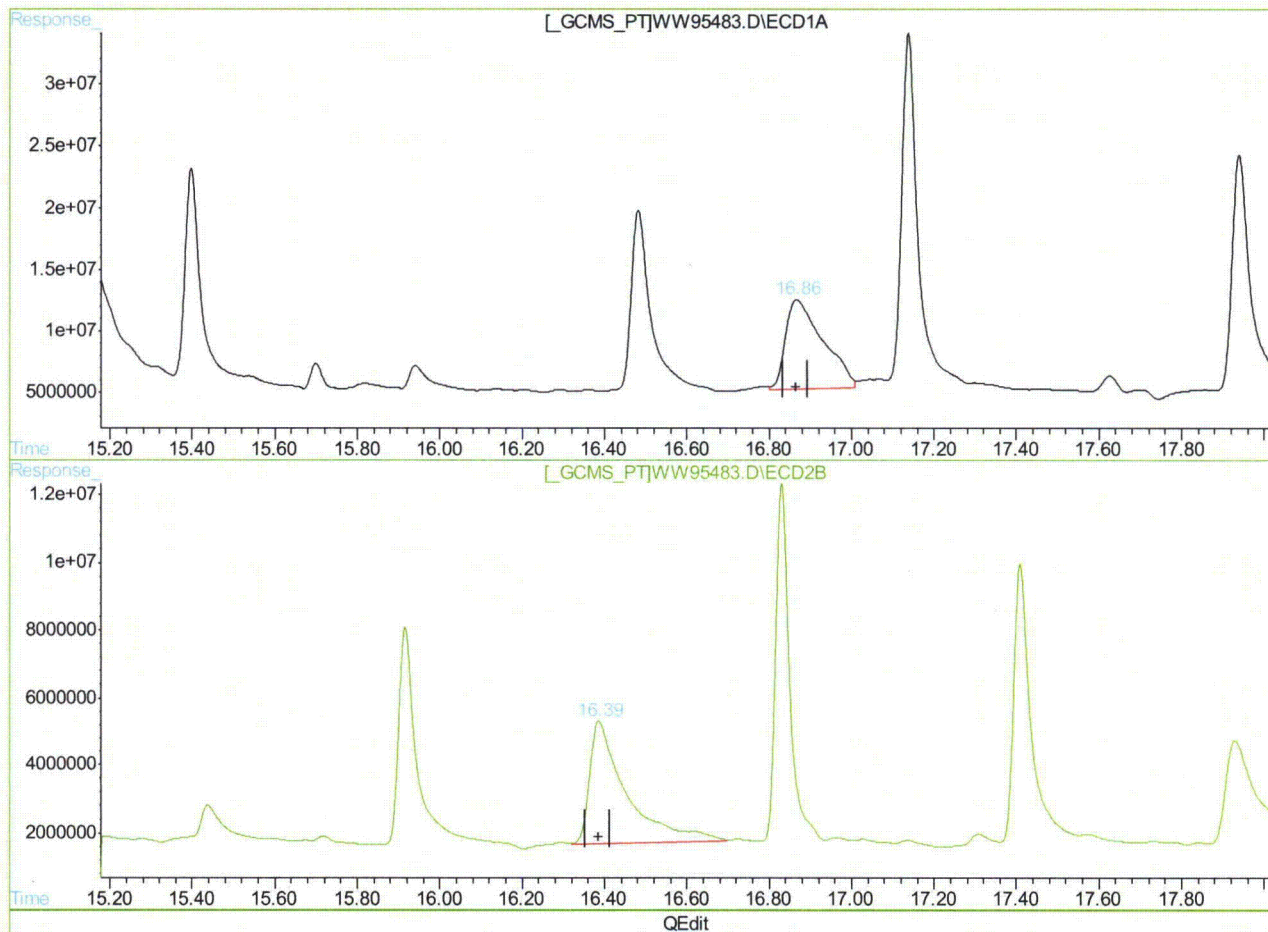
Fri Oct 29 11:10:58 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD1A.CH Vial: 16  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:51 pm Operator: toyar  
Sample : op46377-ms Inst : GCWW  
Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:10 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 11:09:43 2010  
Response via : Multiple Level Calibration



(7) 2,4-D

16.86min 147.234PPB m

response 458513056

(7) 2,4-D #2

16.39min 157.809PPB m

response 223035849

(+) = Expected Retention Time  
WW95483.D HWW3143.M

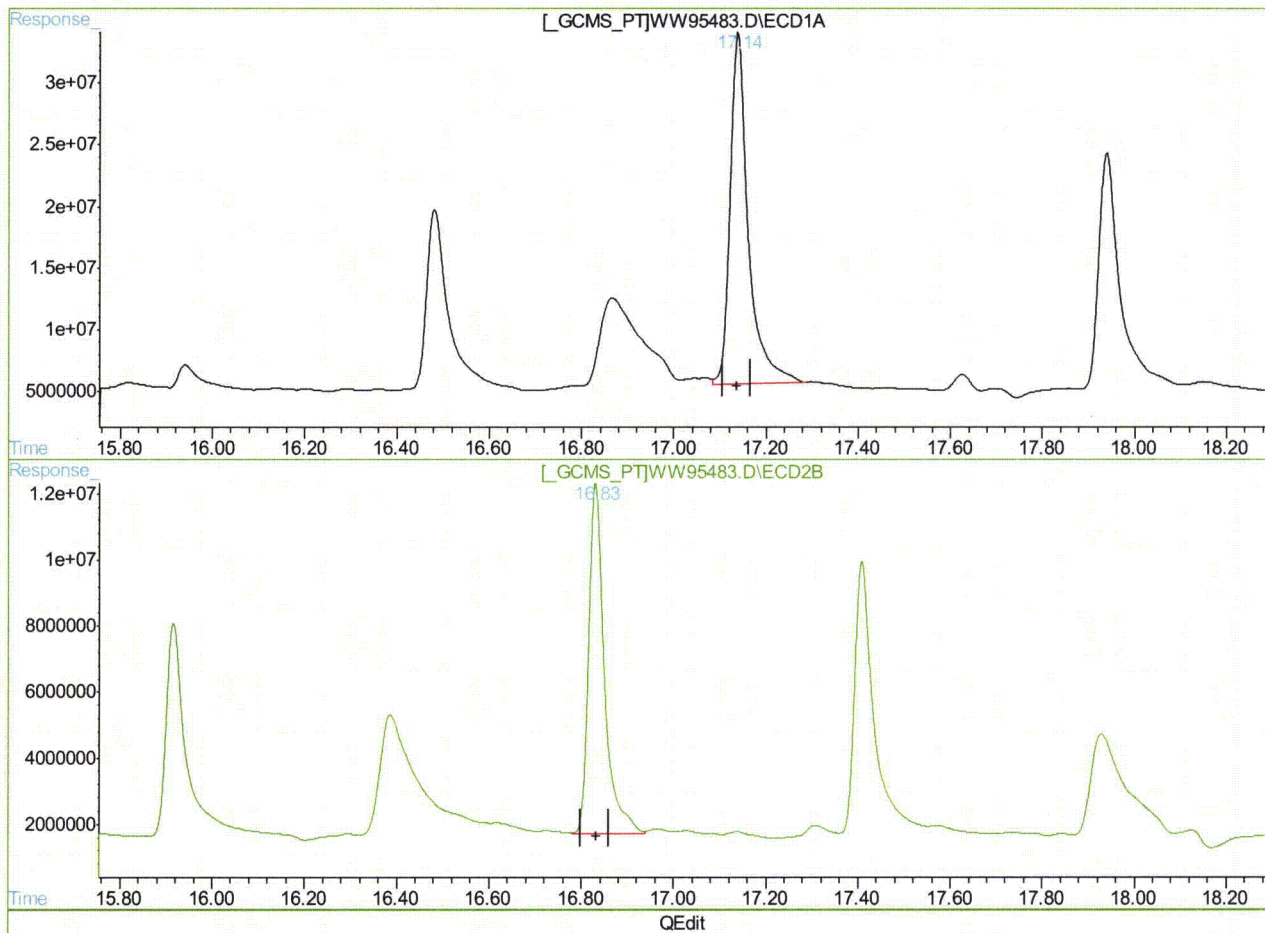
Fri Oct 29 11:11:12 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD1A.CH Vial: 16  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:51 pm Operator: toyar  
Sample : op46377-ms Inst : GCWW  
Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:10 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 11:09:43 2010  
Response via : Multiple Level Calibration



(8) Pentachlorophenol

17.14min 17.102PPB

response 776848162

(8) Pentachlorophenol #2

16.83min 14.686PPB m

response 251663084

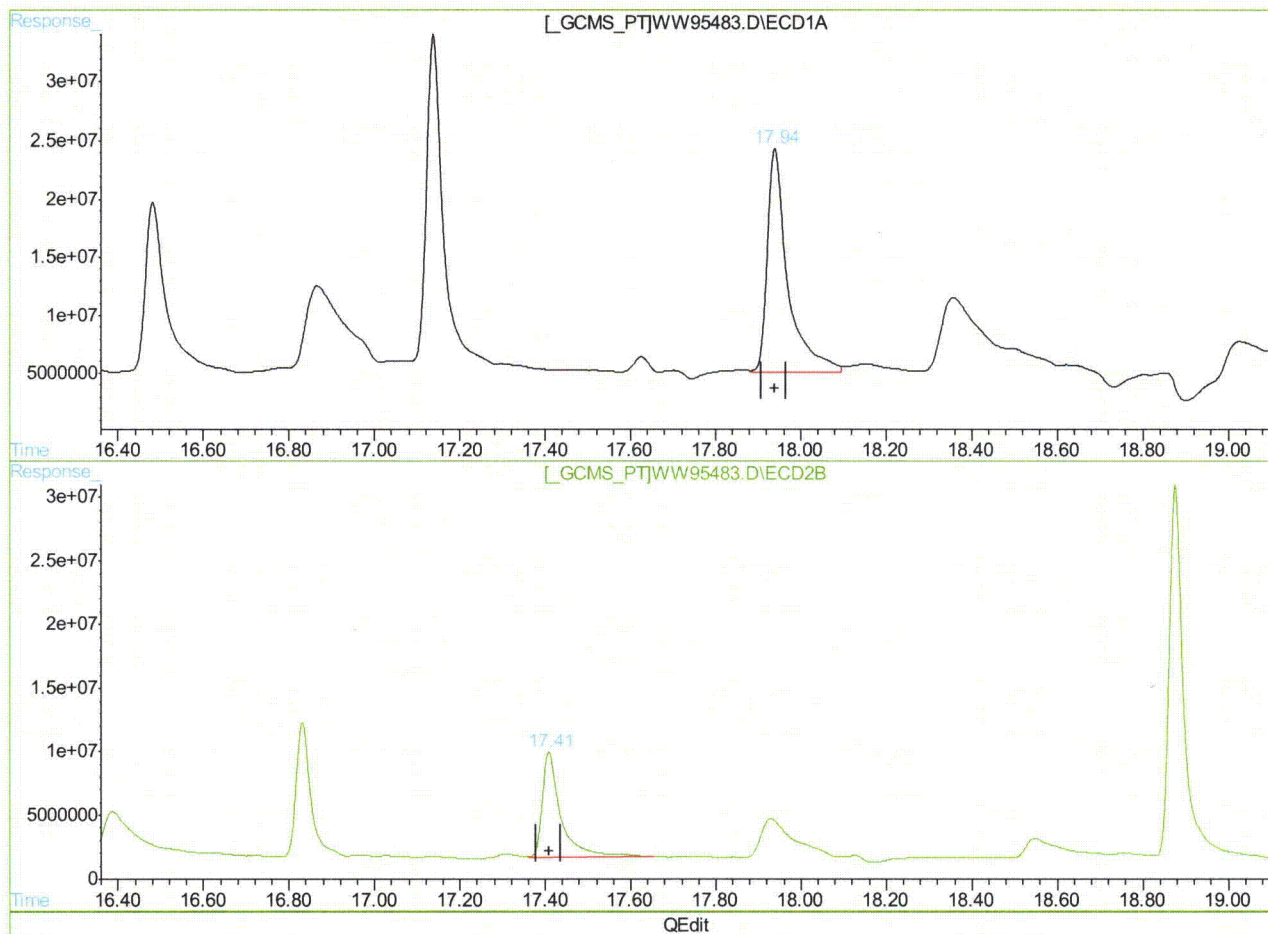
(+) = Expected Retention Time  
WW95483.D HWW3143.M Fri Oct 29 11:11:28 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD1A.CH Vial: 16  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:51 pm Operator: toyar  
Sample : op46377-ms Inst : GCWW  
Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:10 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 11:09:43 2010  
Response via : Multiple Level Calibration



(9) 2,4,5-TP

17.94min 36.238PPB m

response 647338535

(9) 2,4,5-TP #2

17.41min 36.039PPB

response 254928303

(+) = Expected Retention Time

WW95483.D HWW3143.M

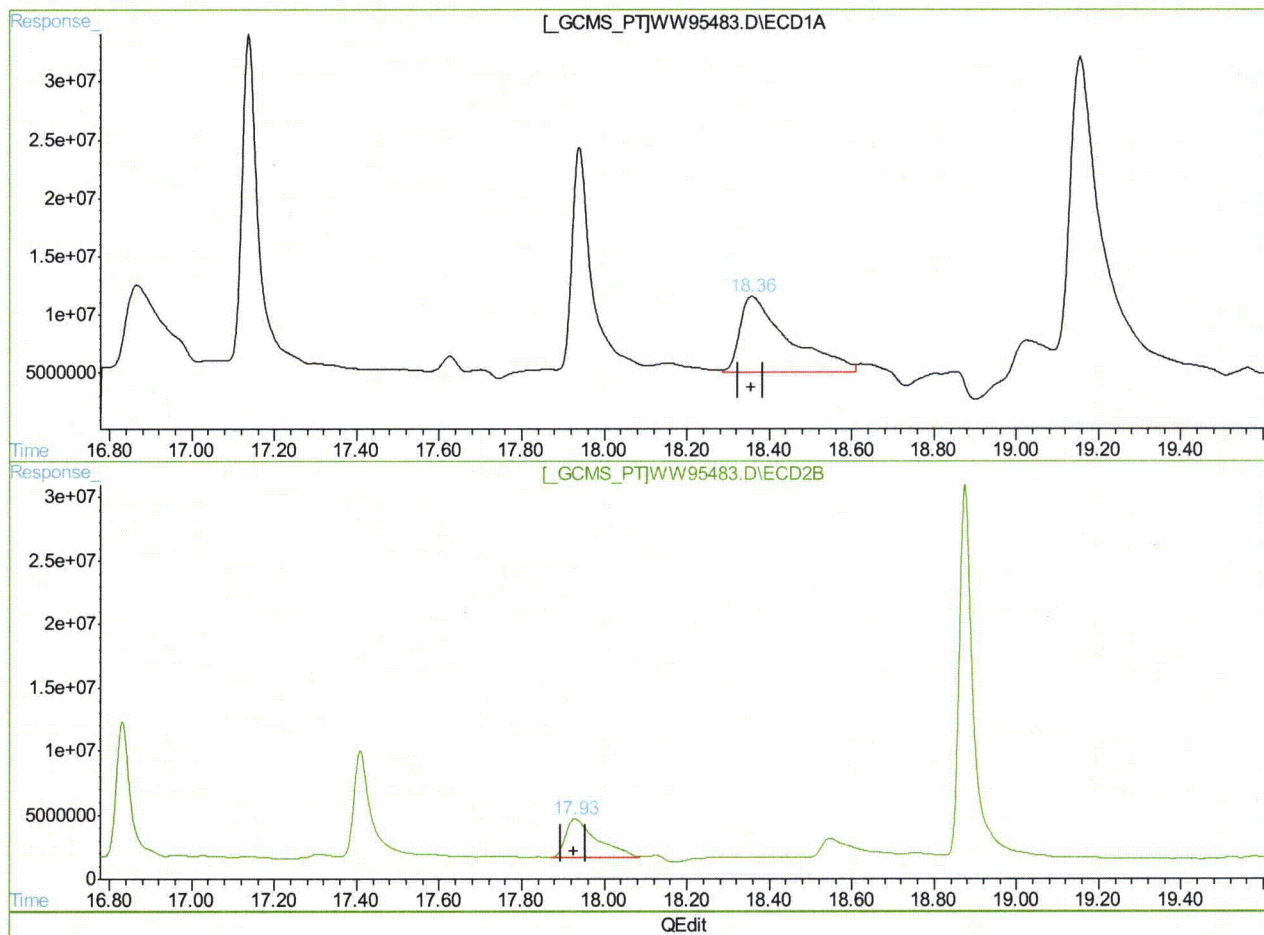
Fri Oct 29 11:11:35 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD1A.CH Vial: 16  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95483.D\ECD2B.CH  
Acq On : 28 Oct 2010 7:51 pm Operator: toyar  
Sample : op46377-ms Inst : GCWW  
Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:10 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 11:09:43 2010  
Response via : Multiple Level Calibration



(10) 2,4,5-T

18.36min 34.697PPB m

response 530032450

(10) 2,4,5-T #2

17.93min 27.951PPB m

response 167618352

(+) = Expected Retention Time

WW95483.D HWW3143.M Fri Oct 29 11:11:48 2010

GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD1A.CH Vial: 17  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD2B.CH  
 Acq On : 28 Oct 2010 8:24 pm Operator: toyar  
 Sample : op46377-msd Inst : GCWW  
 Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 29 11:43 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Fri Oct 29 11:40:33 2010  
 Response via : Initial Calibration  
 DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLPII Signal #2 Phase: RTXCLPII  
 Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
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## System Monitoring Compounds

2) S 2,4-DCAA	15.14	14.64	844.1E6	300.6E6	383.850	319.762
Spiked Amount	500.000		Recovery	=	76.77%	63.95%

## Target Compounds

1) Dalapon	6.10	5.17	90106922	87913534	25.977	53.817m#
3) Dicamba	15.40	14.88	621.7E6	220.5E6	55.373	50.456
4) MCPP	15.70	15.09	33114198	16070518	6443.155m	5270.949
5) MCPA	15.94	15.44	56928051	32749992	5835.085	6877.392m
6) Dichloroprop	16.48	15.92	451.4E6	177.0E6	139.434	132.034m
7) 2,4-D	16.86	16.39	414.7E6	200.8E6	133.168	142.070
8) Pentachloropheno	17.14	16.83	737.1E6	210.1E6	16.228	12.260
9) 2,4,5-TP	17.94	17.41	559.8E6	214.2E6	31.335m	30.281
10) 2,4,5-T	18.35	17.93	438.1E6	138.4E6	28.681m	23.083
11) 2,4-DB	19.03	18.55	274.2E6	60682596	177.220	83.494 #
12) Dinoseb	20.26	18.88	2714.3E6	592.0E6	158.808	120.061

10.4.4 10

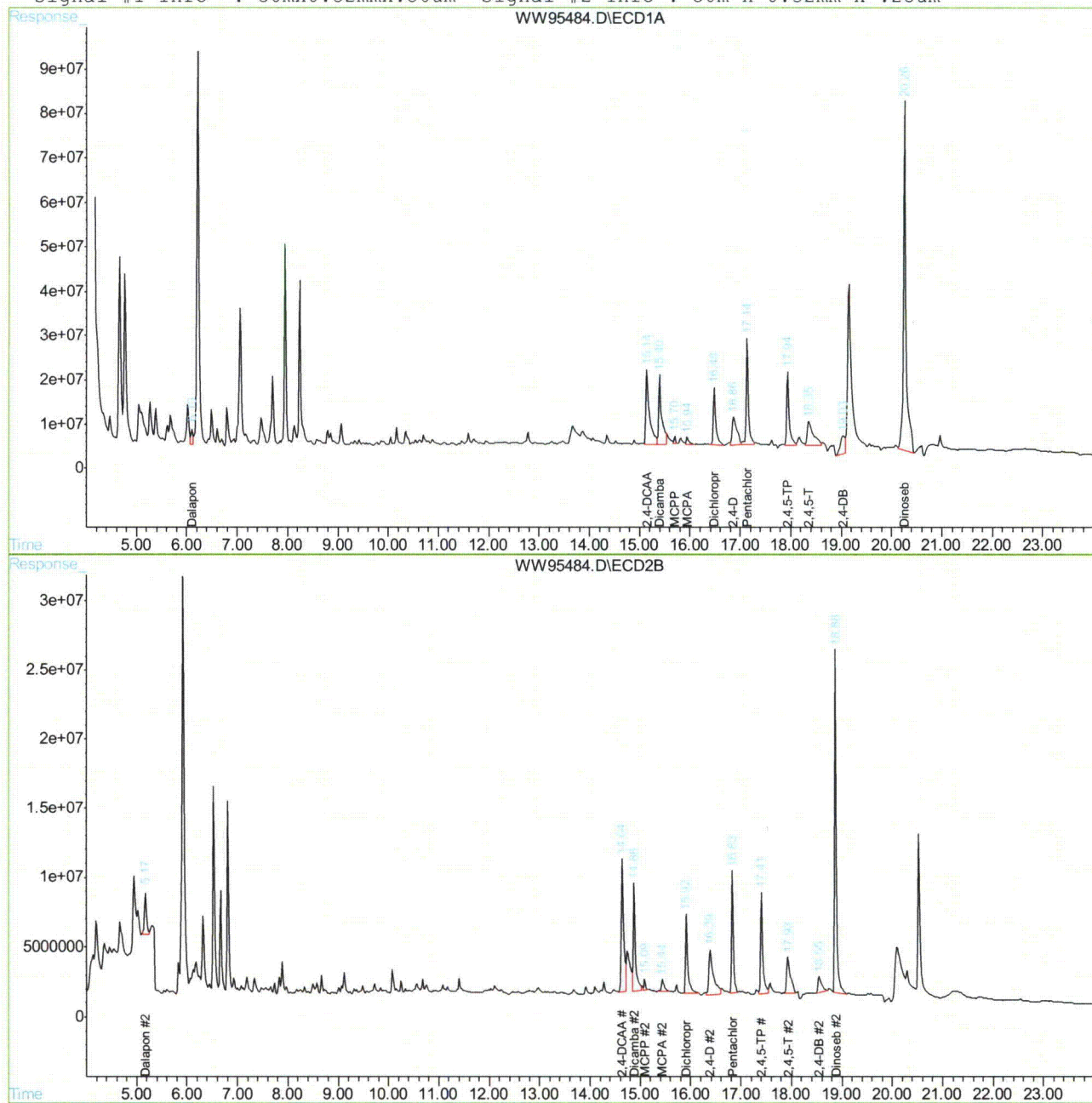
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95484.D HWW3143.M Fri Oct 29 11:43:34 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD1A.CH Vial: 17  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD2B.CH  
Acq On : 28 Oct 2010 8:24 pm Operator: toyar  
Sample : op46377-msd Inst : GCWW  
Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:43 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 11:40:33 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPII Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30m x 0.32mm x .50um Signal #2 Info : 30m x 0.32mm x .25um



WW95484.D HWW3143.M

Fri Oct 29 11:43:35 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46377-MSD      **Method:** SW846 8151  
**Lab FileID:** WW95484.D      **Analyst approved:** 11/11/10 15:41 Cheng-Hwan Ao  
**Injection Time:** 10/28/10 20:24      **Supervisor approved:** 11/11/10 15:43 Cheng-Hwan Ao

Parameter	CAS	Sig#	R. T. (min.)	Reason
Dalapon	75-99-0	2	5.17	Poorly defined baseline
MCPA	94-74-6	2	15.44	Poorly defined baseline
MCPP	93-65-2	1	15.70	Poorly defined baseline
Dichloroprop	120-36-5	2	15.92	Poorly defined baseline
2,4,5-TP (Silvex)	93-72-1	1	17.94	Poorly defined baseline
2,4,5-T	93-76-5	1	18.35	Poorly defined baseline

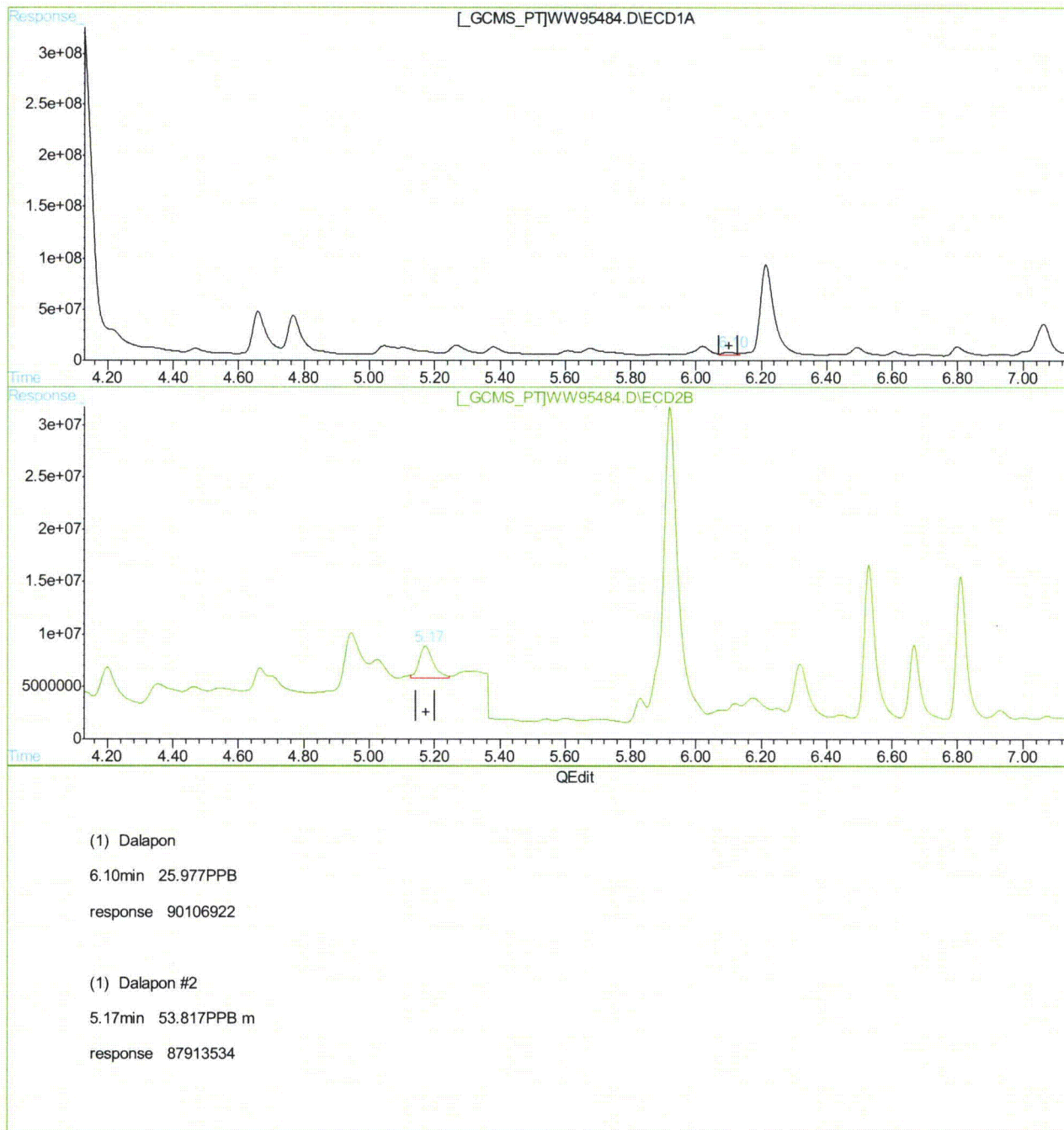
10.4.4.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD1A.CH Vial: 17  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD2B.CH  
Acq On : 28 Oct 2010 8:24 pm Operator: toyar  
Sample : op46377-msd Inst : GCWW  
Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:41 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 11:40:33 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time

WW95484.D HWW3143.M

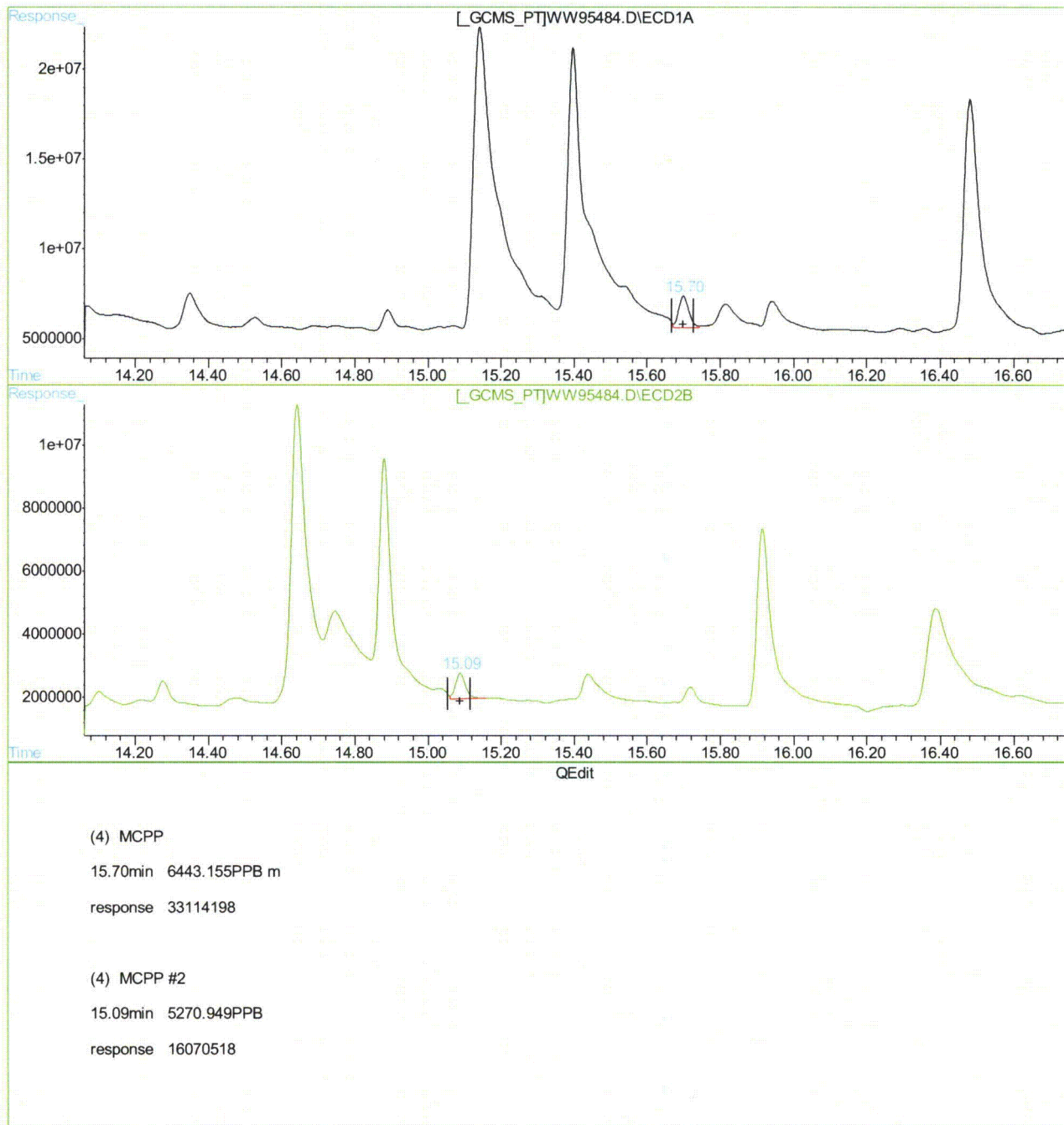
Fri Oct 29 11:42:41 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD1A.CH Vial: 17  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD2B.CH  
Acq On : 28 Oct 2010 8:24 pm Operator: toyar  
Sample : op46377-msd Inst : GCWW  
Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:41 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 11:40:33 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time

WW95484.D HWW3143.M

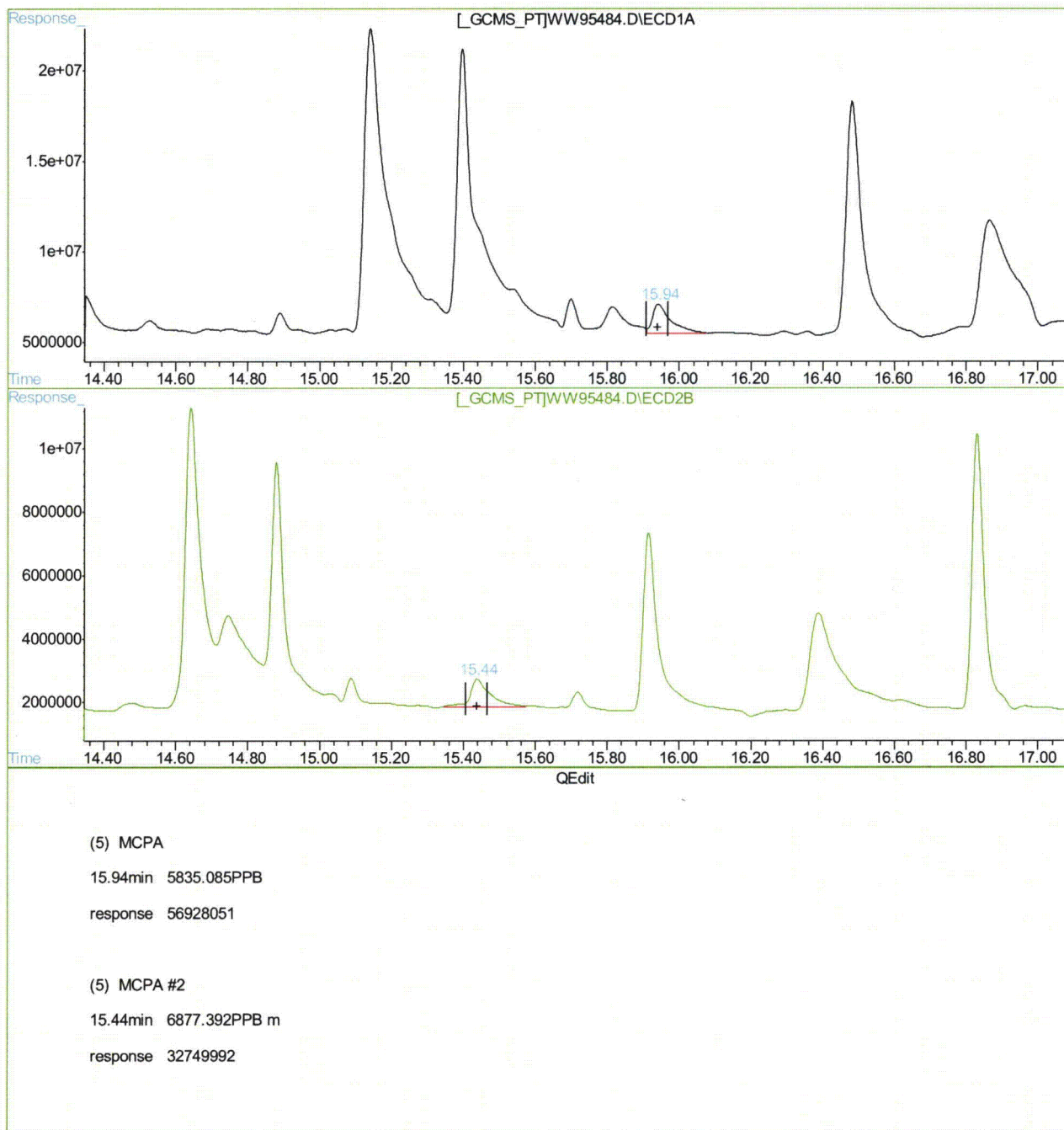
Fri Oct 29 11:43:00 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD1A.CH Vial: 17  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD2B.CH  
Acq On : 28 Oct 2010 8:24 pm Operator: toyar  
Sample : op46377-msd Inst : GCWW  
Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:41 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 11:40:33 2010  
Response via : Multiple Level Calibration

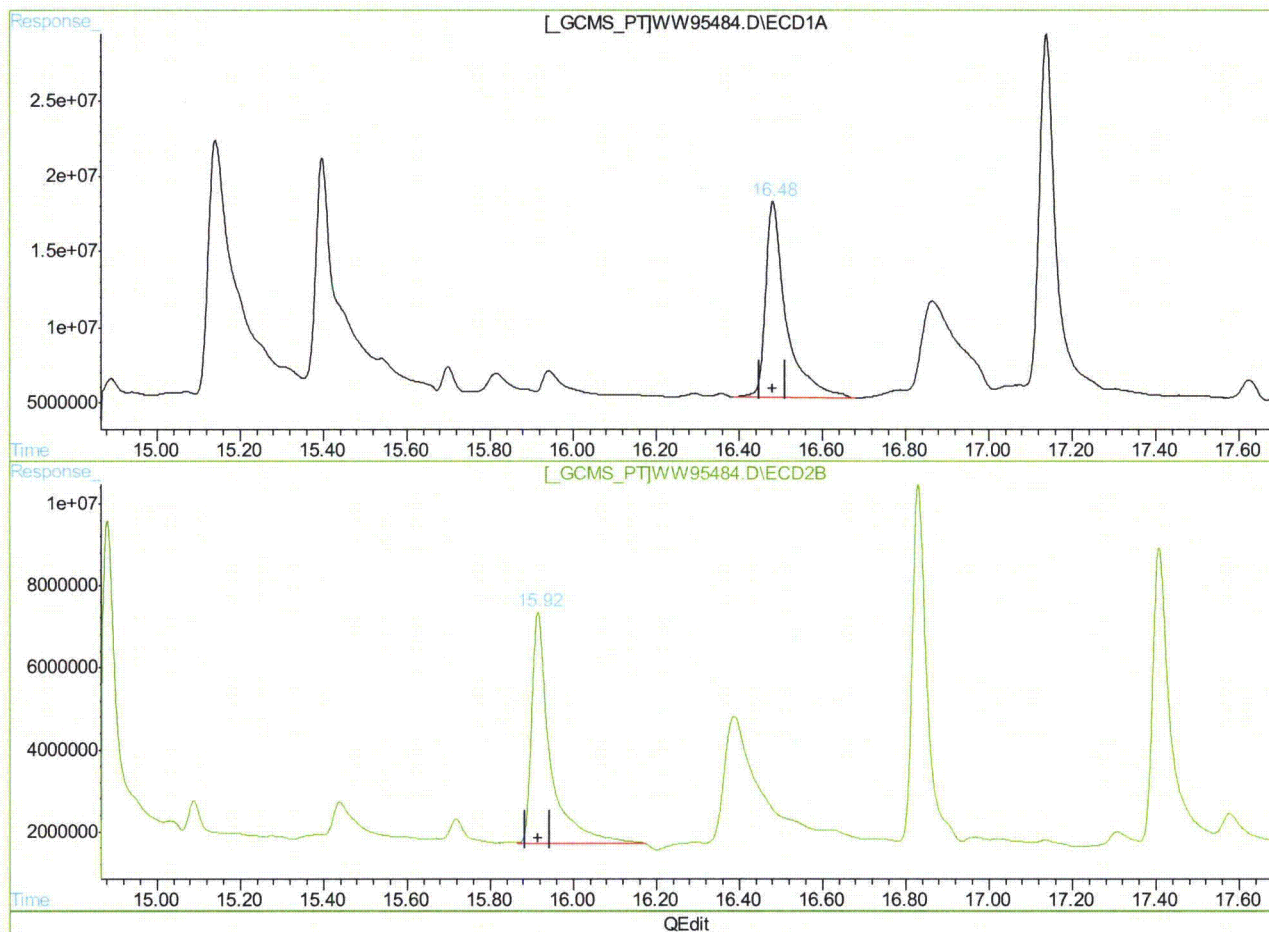


(+) = Expected Retention Time  
WW95484.D HWW3143.M Fri Oct 29 11:43:05 2010 GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD1A.CH Vial: 17  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD2B.CH  
Acq On : 28 Oct 2010 8:24 pm Operator: toyar  
Sample : op46377-msd Inst : GCWW  
Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:41 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 11:40:33 2010  
Response via : Multiple Level Calibration



(6) Dichloroprop  
16.48min 139.434PPB  
response 451397772

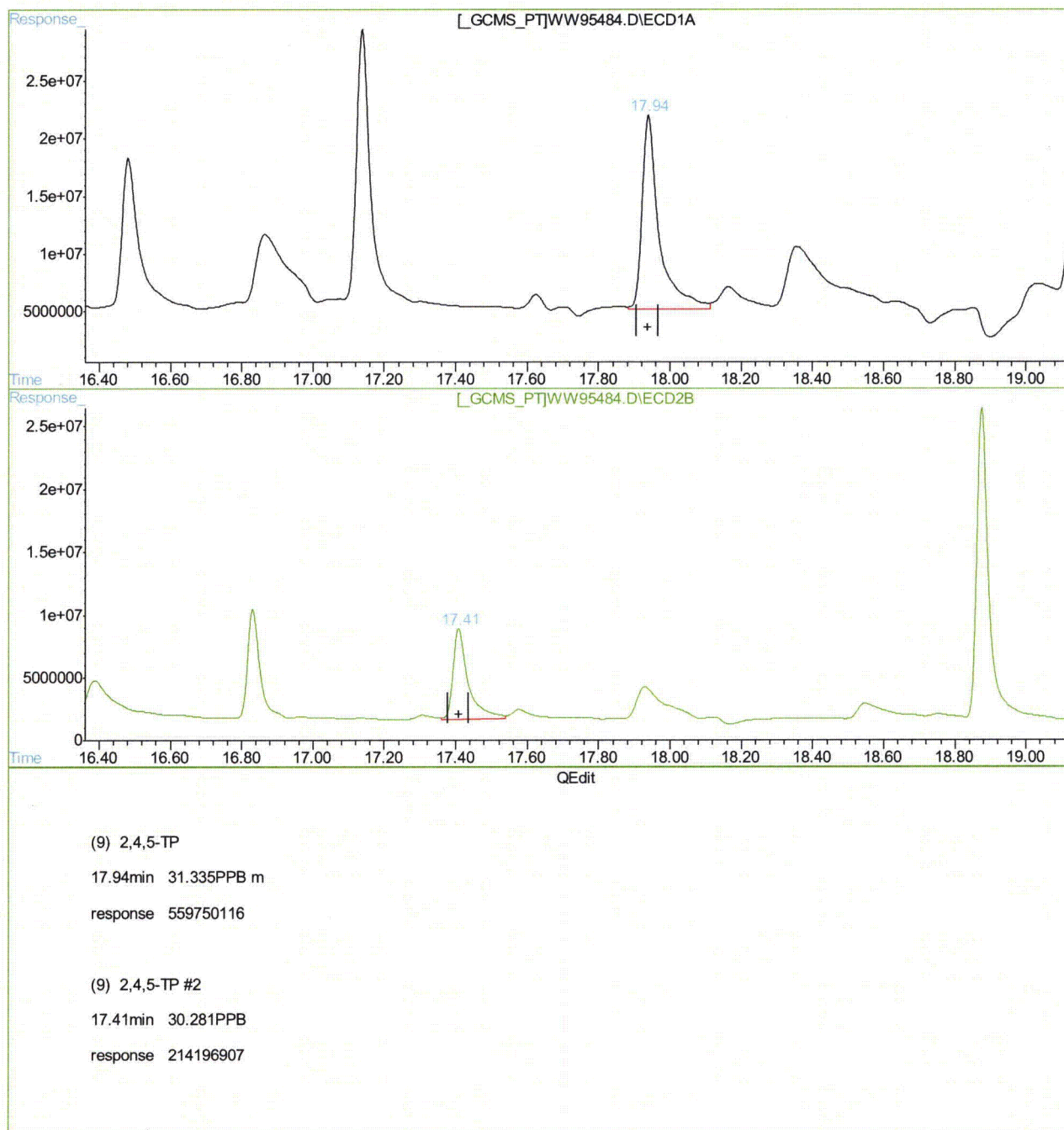
(6) Dichloroprop #2  
15.92min 132.034PPB m  
response 177030524

(+) = Expected Retention Time  
WW95484.D HWW3143.M Fri Oct 29 11:43:09 2010 GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD1A.CH Vial: 17  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD2B.CH  
Acq On : 28 Oct 2010 8:24 pm Operator: toyar  
Sample : op46377-msd Inst : GCWW  
Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:41 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 11:40:33 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time

WW95484.D HWW3143.M

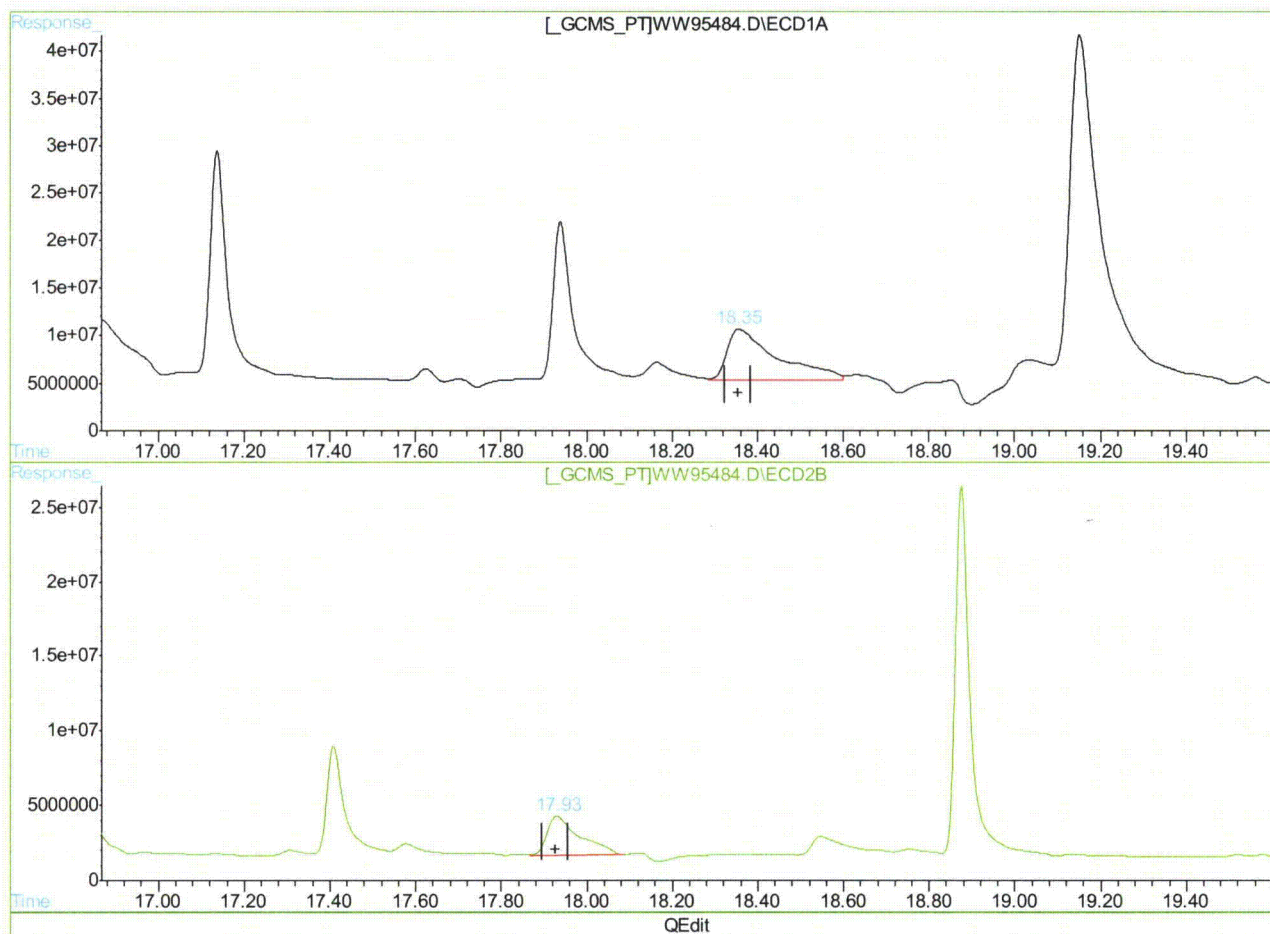
Fri Oct 29 11:43:16 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD1A.CH Vial: 17  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95484.D\ECD2B.CH  
Acq On : 28 Oct 2010 8:24 pm Operator: toyar  
Sample : op46377-msd Inst : GCWW  
Misc : OP46377,Gww3340,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 11:41 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 11:40:33 2010  
Response via : Multiple Level Calibration



(10) 2,4,5-T

18.35min 28.681PPB m

response 438135954

(10) 2,4,5-T#2

17.93min 23.083PPB

response 138424709

(+) = Expected Retention Time

WW95484.D HWW3143.M

Fri Oct 29 11:43:20 2010

GCCD

Cheng-Hwan Ao  
11/29/10 16:48

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD1A.CH Vial: 5  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD2B.CH  
 Acq On : 12 Nov 2010 1:07 pm Operator: toyar  
 Sample : OP46441-MS Inst : GCWW  
 Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 16 10:06 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Tue Nov 16 09:57:44 2010  
 Response via : Initial Calibration  
 DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
 Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
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## System Monitoring Compounds

2) S 2,4-DCAA	15.11	14.61	1106.2E6	378.3E6	503.024	402.499
Spiked Amount	500.000		Recovery	=	100.60%	80.50%

## Target Compounds

1) Dalapon	6.08	5.16	128.1E6	319.9E6	36.934	195.840 #
3) Dicamba	15.37	14.85	594.7E6	209.8E6	52.972	48.024
4) MCPP	15.67	15.05f	59765601	127.6E6	11628.820m	41854.499m#
5) MCPA	15.91	15.41	98898834	29435767	10137.061m	6181.416m#
6) Dichloroprop	16.45	15.89	682.2E6	246.2E6	210.733m	183.585m
7) 2,4-D	16.82f	16.35f	729.7E6	274.7E6	234.299m	194.388m
8) Pentachloropheno	17.11	16.81	1215.2E6	404.1E6	26.751m	23.583m
9) 2,4,5-TP	17.91	17.38f	792.1E6	282.2E6	44.342	39.897
10) 2,4,5-T	18.31f	17.89f	596.8E6	186.8E6	39.066	31.147m
11) 2,4-DB	18.97f	18.50f	323.8E6	99275487	209.280m	136.595 #
12) Dinoseb	20.15f	18.85	2866.0E6	14895181	167.681m	3.021 #

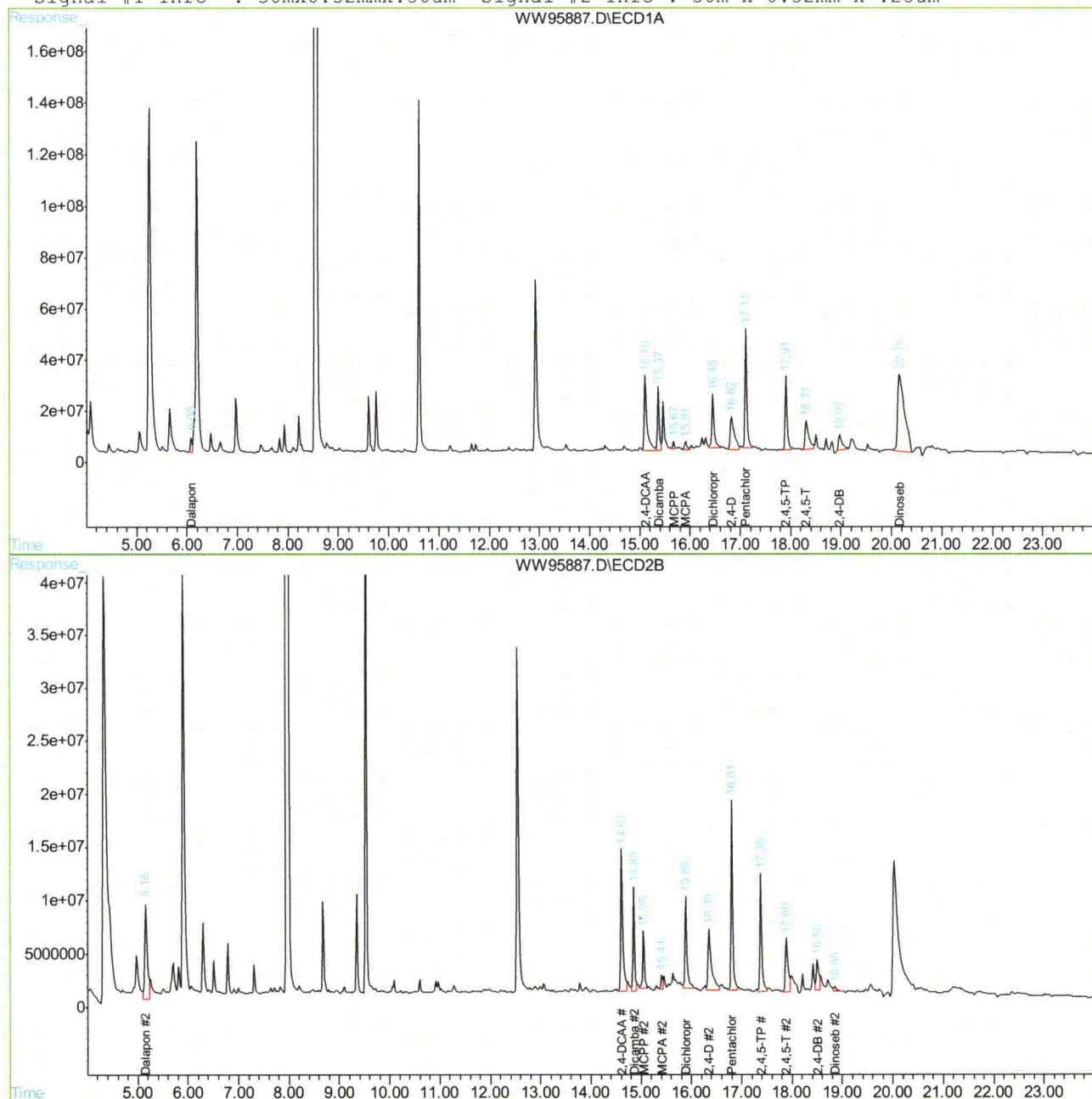
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95887.D HWW3143.M Tue Nov 16 10:06:29 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD1A.CH Vial: 5  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD2B.CH  
Acq On : 12 Nov 2010 1:07 pm Operator: toyar  
Sample : OP46441-MS Inst : GCWW  
Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:06 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



WW95887.D HWW3143.M

Tue Nov 16 10:06:29 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46441-MS  
**Lab FileID:** WW95887.D  
**Injection Time:** 11/12/10 13:07

**Method:** SW846 8151  
**Analyst approved:** 11/29/10 16:01 Toya Dagena Raffington  
**Supervisor approved:** 11/29/10 16:48 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
MCP	93-65-2	2	15.05	Poorly defined baseline
MCP	94-74-6	2	15.41	Poorly defined baseline
MCP	93-65-2	1	15.67	Poorly defined baseline
Dichloroprop	120-36-5	2	15.89	Poorly defined baseline
MCP	94-74-6	1	15.91	Poorly defined baseline
2,4-D	94-75-7	2	16.35	Poorly defined baseline
Dichloroprop	120-36-5	1	16.45	Poorly defined baseline
Pentachlorophenol	87-86-5	2	16.81	Poorly defined baseline
2,4-D	94-75-7	1	16.82	Poorly defined baseline
Pentachlorophenol	87-86-5	1	17.11	Poorly defined baseline
2,4,5-T	93-76-5	2	17.89	Poorly defined baseline
2,4-DB	94-82-6	1	18.97	Poorly defined baseline
Dinoseb	88-85-7	1	20.15	Poorly defined baseline

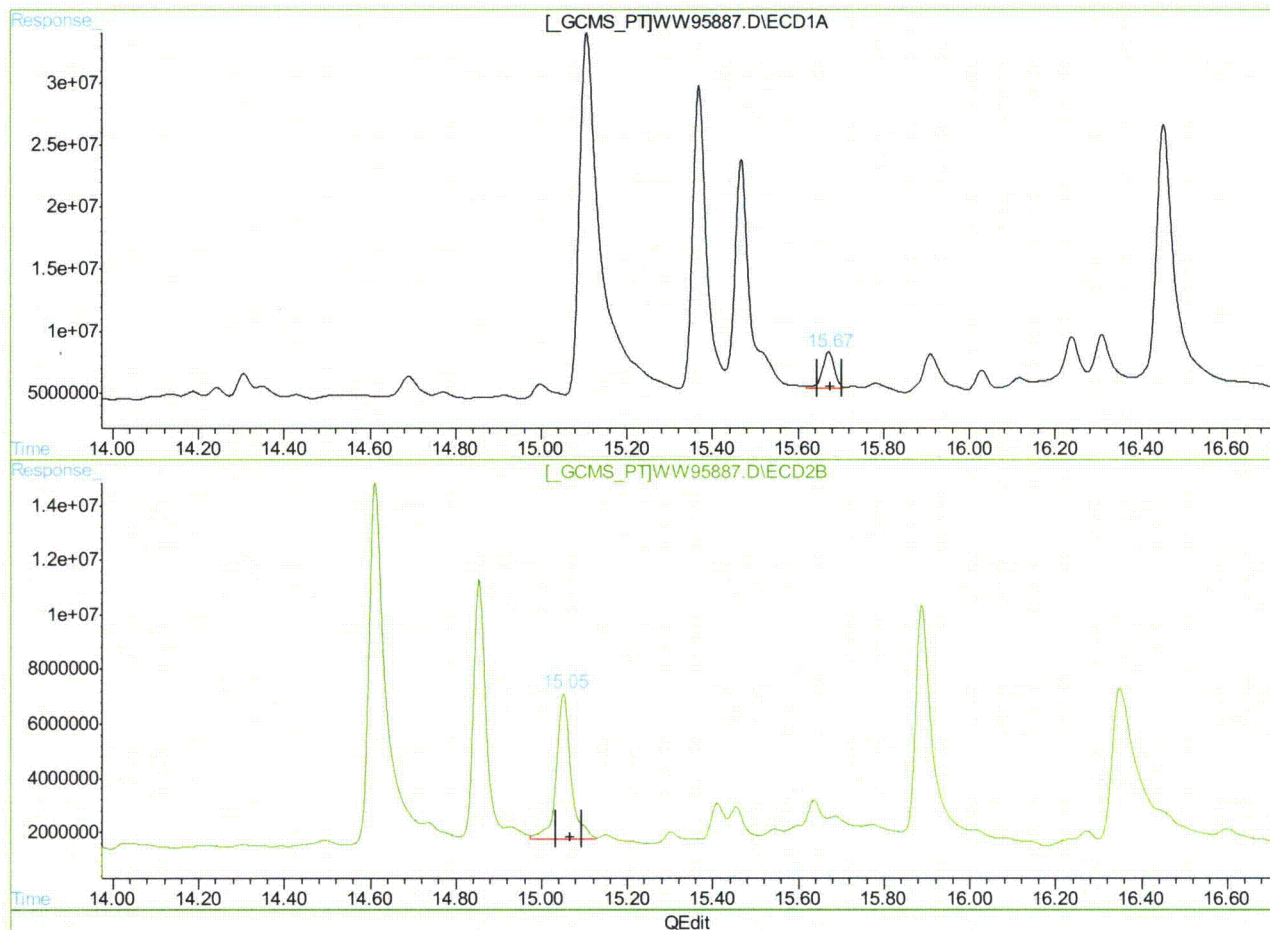
10.4.5.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD1A.CH Vial: 5  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD2B.CH  
Acq On : 12 Nov 2010 1:07 pm Operator: toyar  
Sample : OP46441-MS Inst : GCWW  
Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:03 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration



(4) MCPP

15.67min 11628.820PPB m

response 59765601

(4) MCPP #2

15.05min 41854.499PPB m

response 127609573

(+) = Expected Retention Time

WW95887.D HWW3143.M

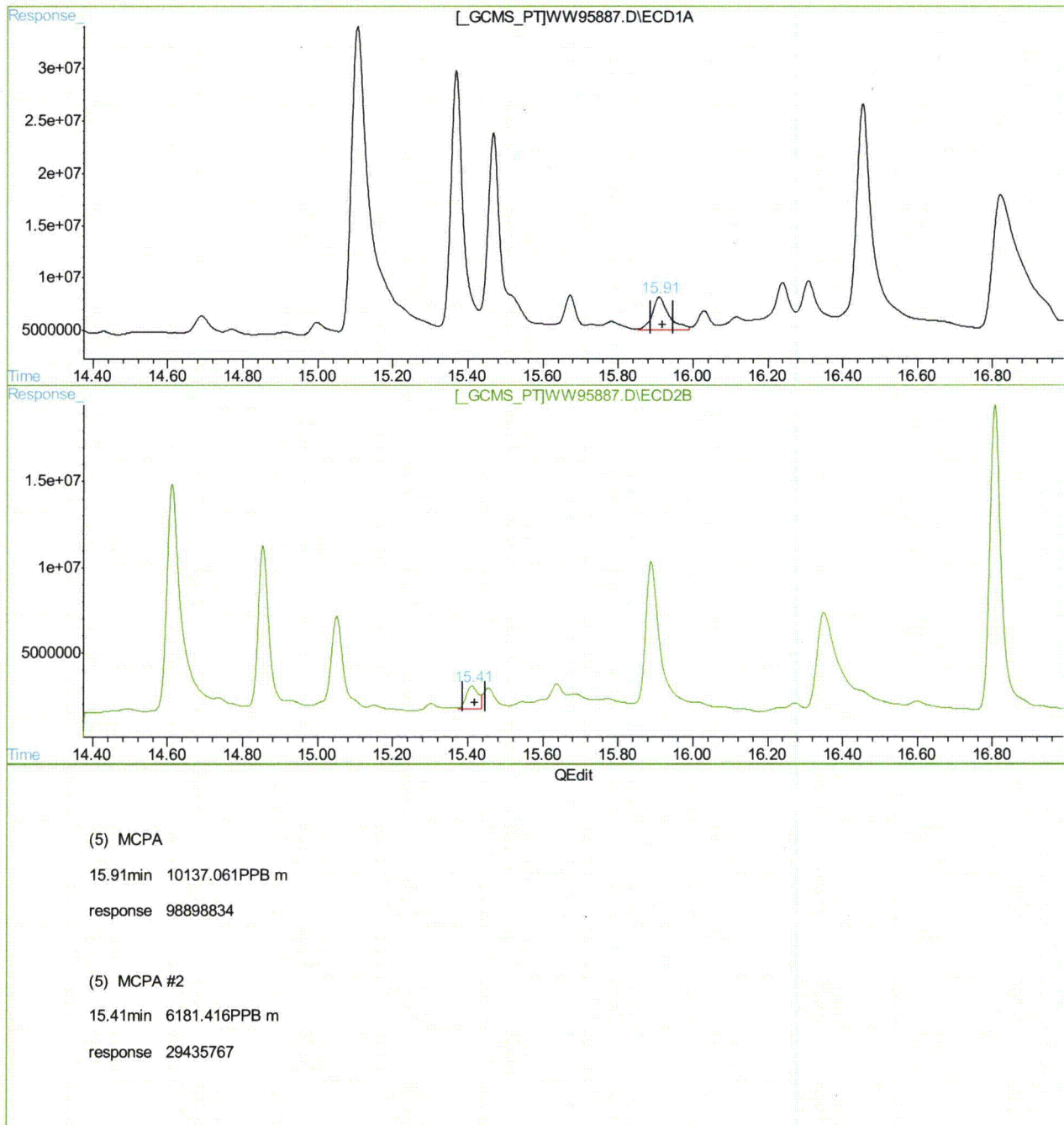
Tue Nov 16 10:05:39 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD1A.CH Vial: 5  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD2B.CH  
Acq On : 12 Nov 2010 1:07 pm Operator: toyar  
Sample : OP46441-MS Inst : GCWW  
Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:03 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration

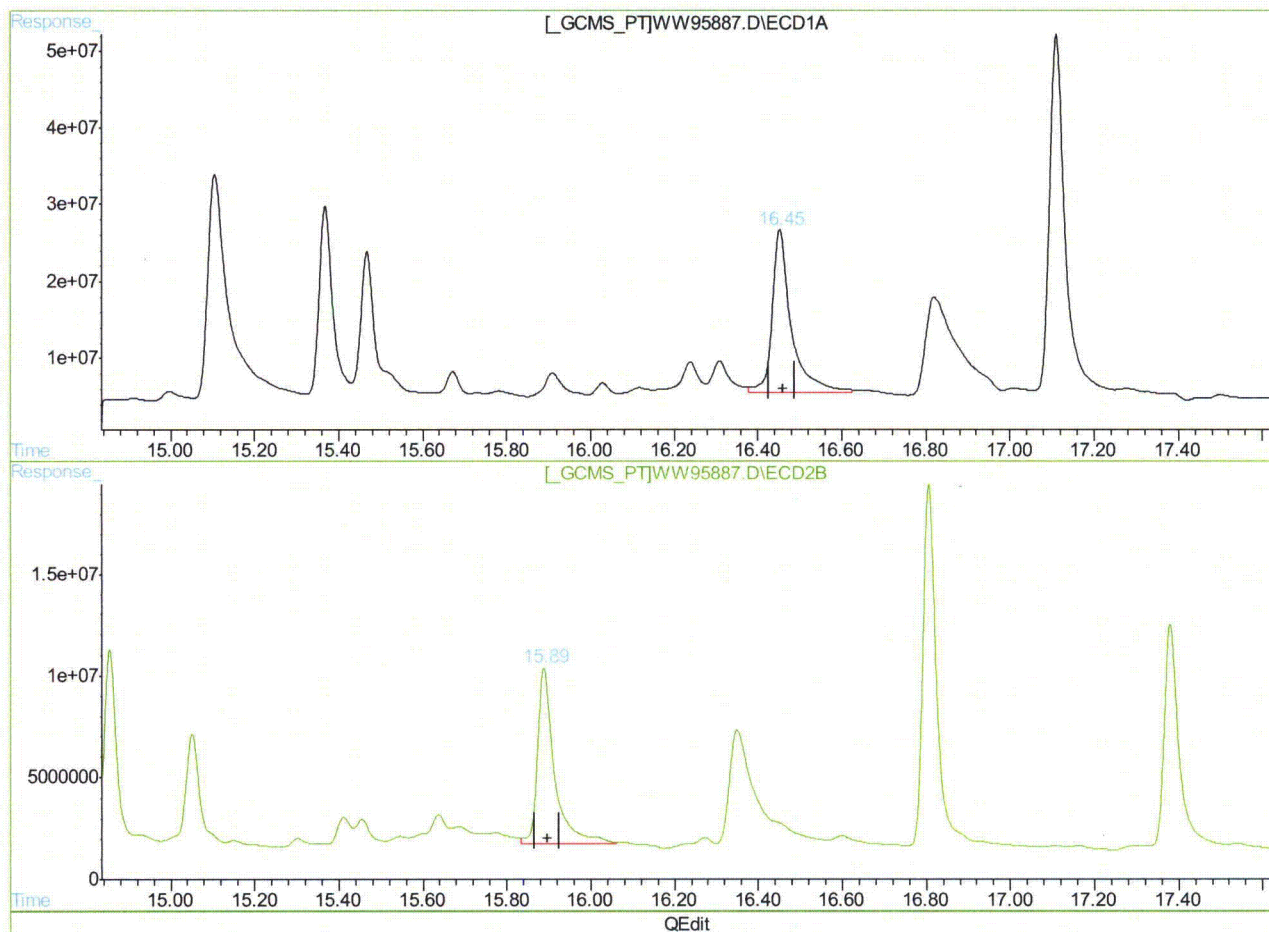


(+) = Expected Retention Time  
WW95887.D HWW3143.M Tue Nov 16 10:05:43 2010 GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD1A.CH Vial: 5  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD2B.CH  
Acq On : 12 Nov 2010 1:07 pm Operator: toyar  
Sample : OP46441-MS Inst : GCWW  
Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:03 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration



(6) Dichloroprop

16.45min 210.733PPB m

response 682218826

(6) Dichloroprop #2

15.89min 183.585PPB m

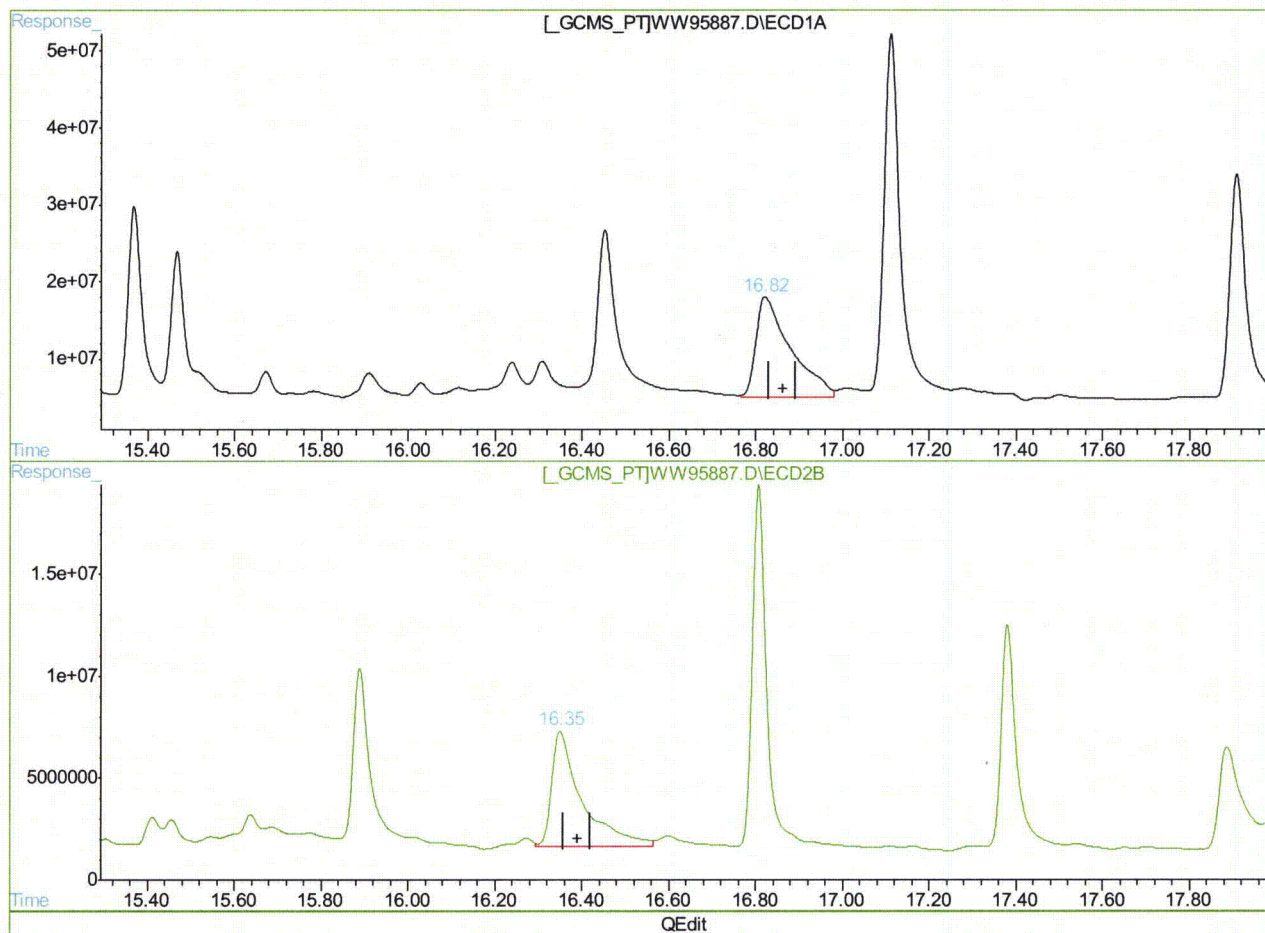
response 246150874

(+) = Expected Retention Time  
WW95887.D HWW3143.M Tue Nov 16 10:05:48 2010 GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD1A.CH Vial: 5  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD2B.CH  
Acq On : 12 Nov 2010 1:07 pm Operator: toyar  
Sample : OP46441-MS Inst : GCWW  
Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:03 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration



(7) 2,4-D

16.82min 234.299PPB m

response 729650678

(7) 2,4-D #2

16.35min 194.388PPB m

response 274734552

(+) = Expected Retention Time

WW95887.D HWW3143.M

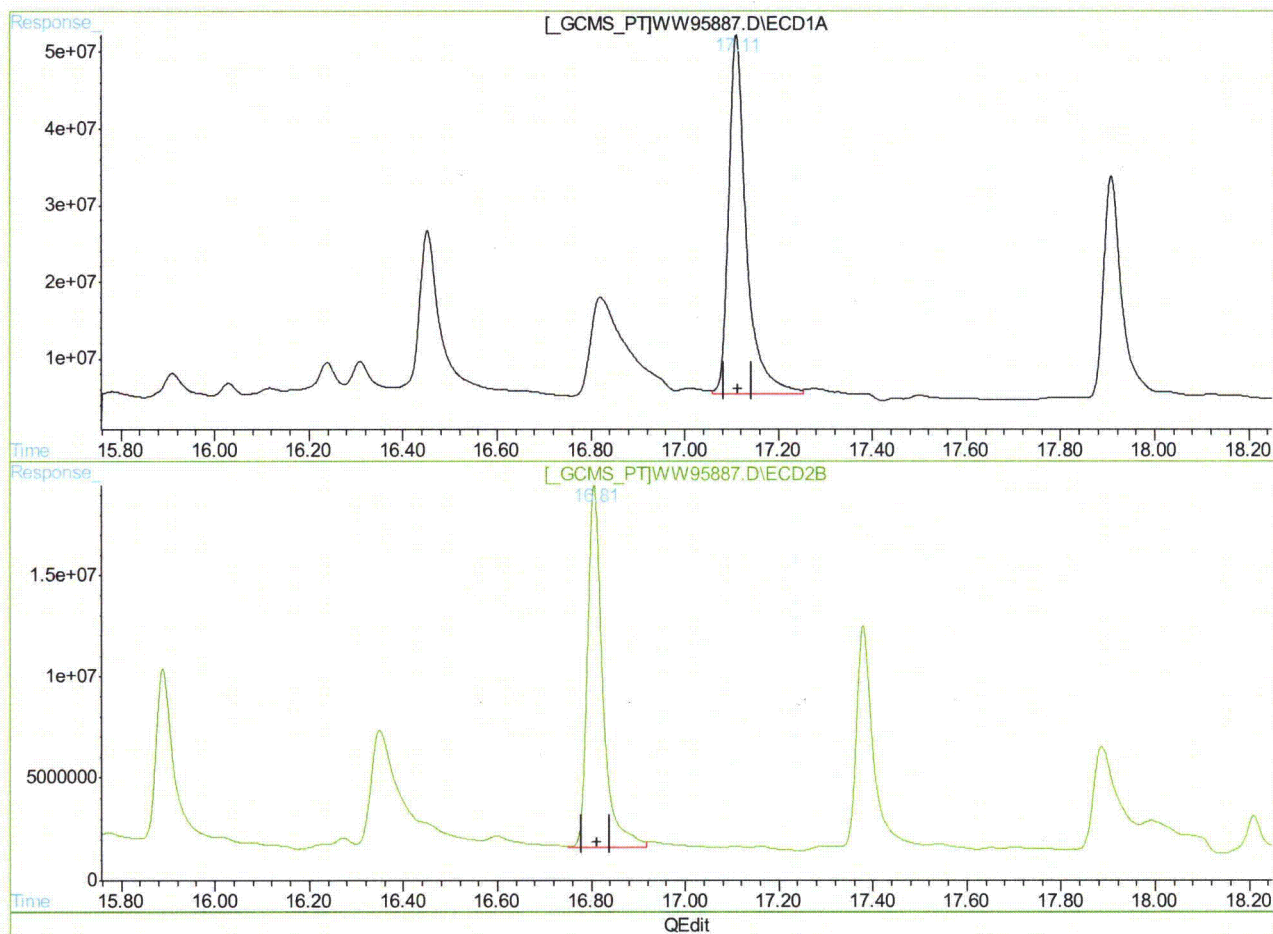
Tue Nov 16 10:05:52 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD1A.CH Vial: 5  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD2B.CH  
Acq On : 12 Nov 2010 1:07 pm Operator: toyar  
Sample : OP46441-MS Inst : GCWW  
Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:03 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration



(8) Pentachlorophenol  
17.11min 26.751PPB m  
response 1215157723

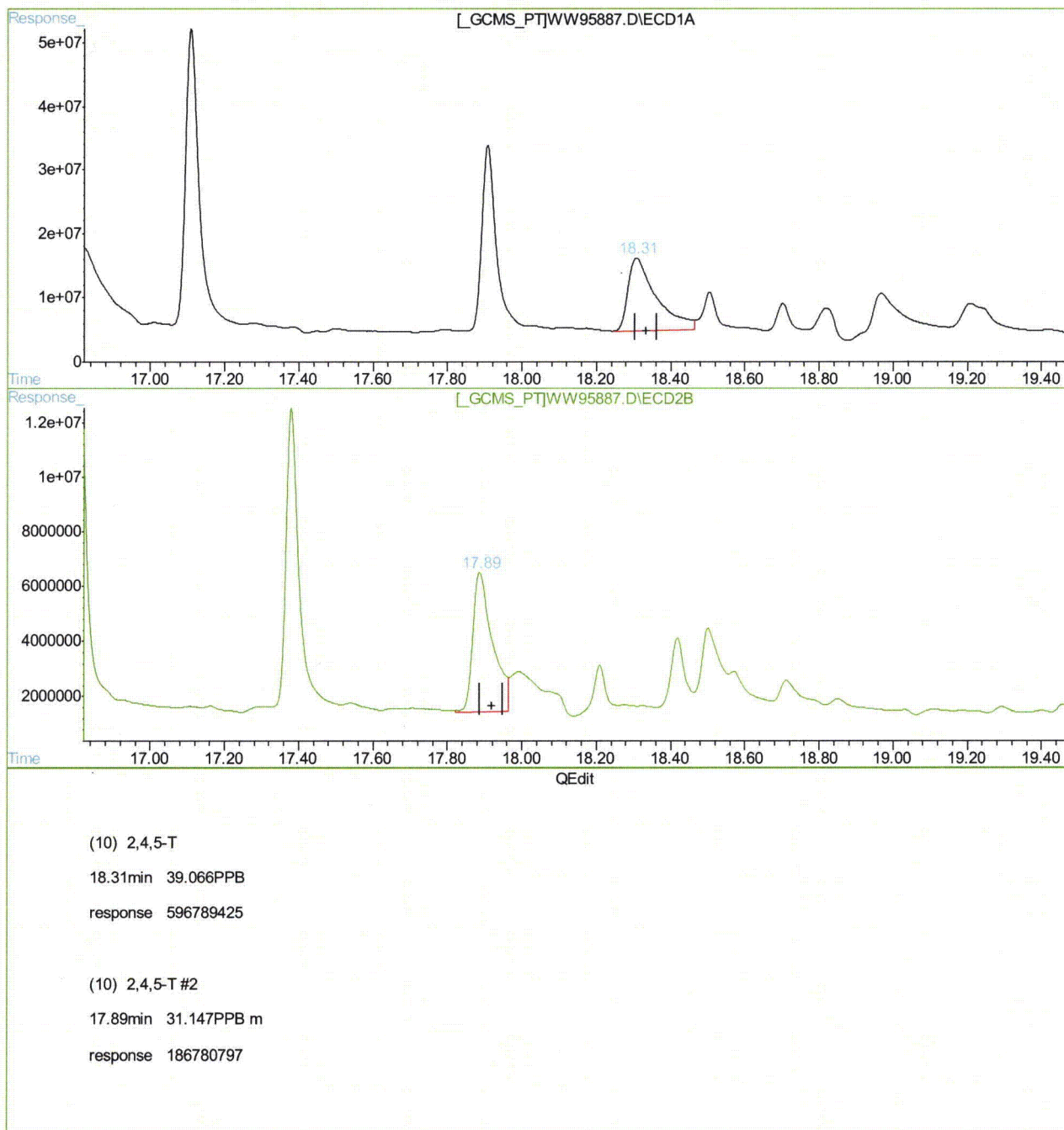
(8) Pentachlorophenol #2  
16.81min 23.583PPB m  
response 404125005

(+) = Expected Retention Time  
WW95887.D HWW3143.M Tue Nov 16 10:06:09 2010 GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD1A.CH Vial: 5  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD2B.CH  
Acq On : 12 Nov 2010 1:07 pm Operator: toyar  
Sample : OP46441-MS Inst : GCWW  
Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:03 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time

WW95887.D HWW3143.M

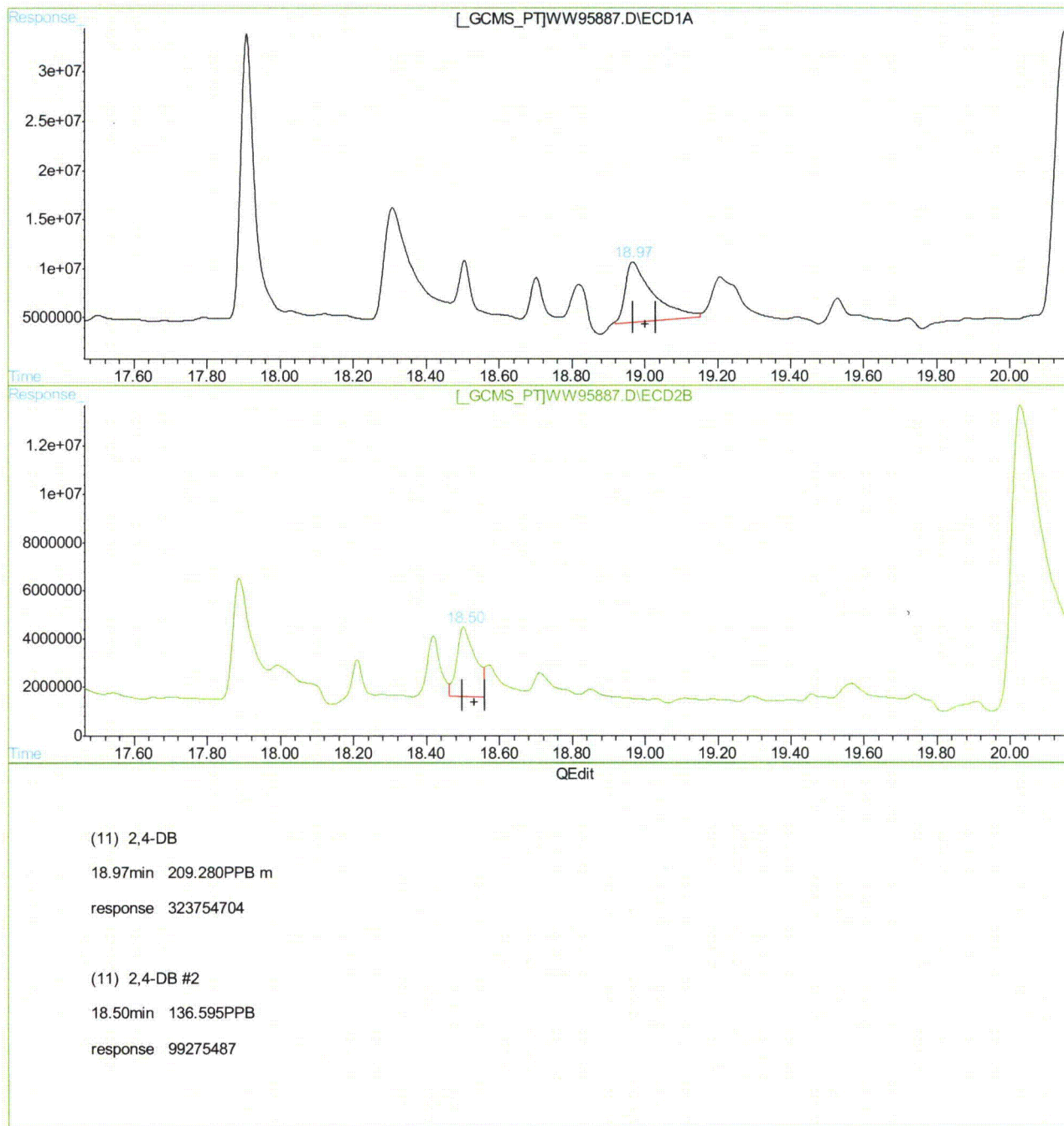
Tue Nov 16 10:06:14 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD1A.CH Vial: 5  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD2B.CH  
Acq On : 12 Nov 2010 1:07 pm Operator: toyar  
Sample : OP46441-MS Inst : GCWW  
Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:03 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration

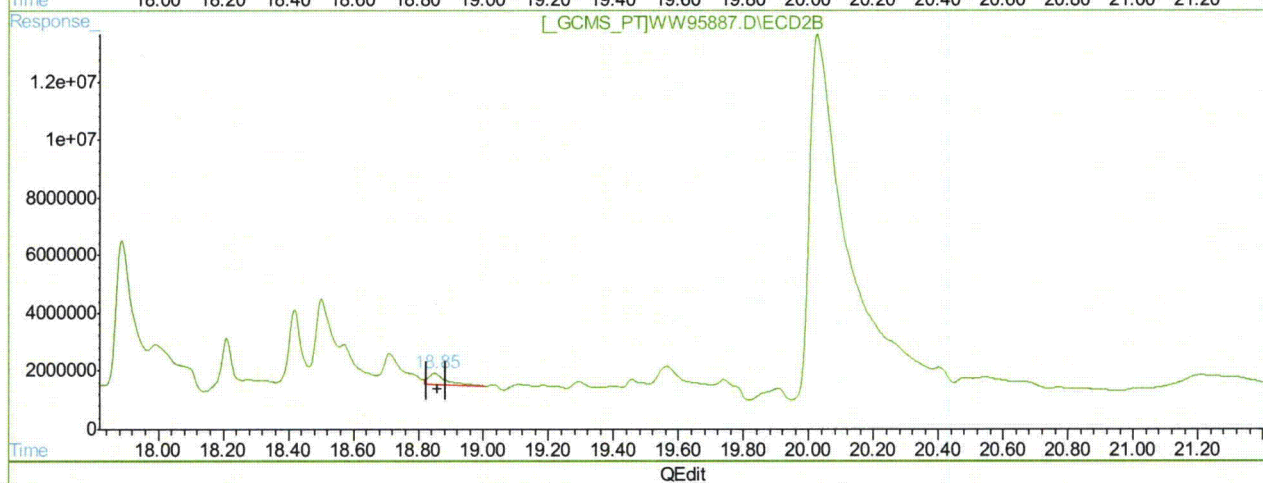
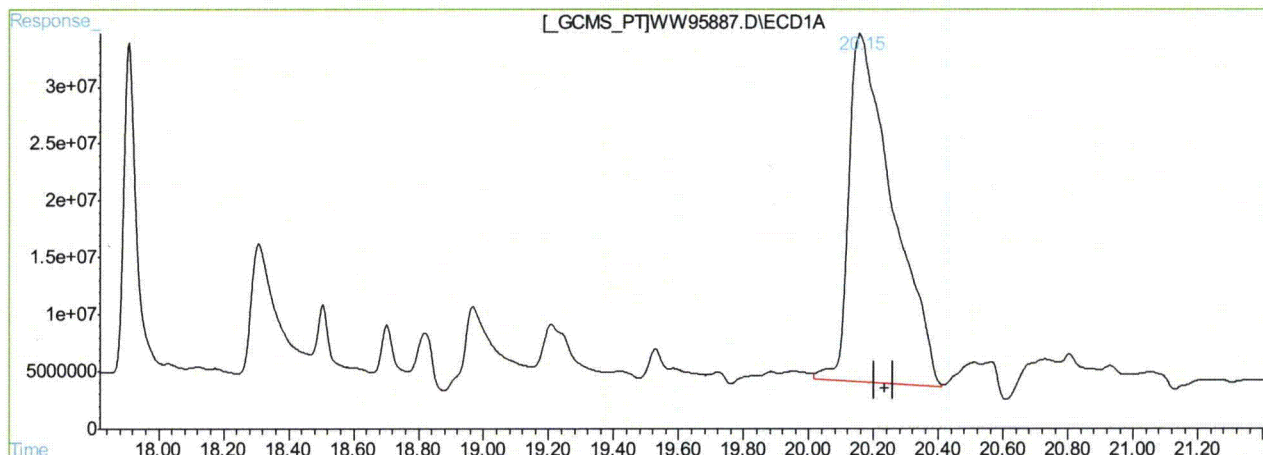


(+) = Expected Retention Time  
WW95887.D HWW3143.M Tue Nov 16 10:06:18 2010 GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD1A.CH Vial: 5  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95887.D\ECD2B.CH  
Acq On : 12 Nov 2010 1:07 pm Operator: toyar  
Sample : OP46441-MS Inst : GCWW  
Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:03 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration



(12) Dinoseb  
20.15min 167.681PPB m  
response 2866009676

(12) Dinoseb #2  
18.85min 3.021PPB  
response 14895181

(+) = Expected Retention Time  
WW95887.D HWW3143.M Tue Nov 16 10:06:22 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95888.D\ECD1A.CH Vial: 6  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95888.D\ECD2B.CH  
 Acq On : 12 Nov 2010 1:36 pm Operator: toyar  
 Sample : OP46441-MSD Inst : GCWW  
 Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 16 10:09 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Tue Nov 16 09:57:44 2010  
 Response via : Initial Calibration  
 DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLPI Signal #2 Phase: RTXCLPII  
 Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
2) S 2,4-DCAA	15.11	14.62	1069.5E6	362.8E6	486.346	385.956
Spiked Amount	500.000		Recovery	=	97.27%	77.19%
Target Compounds						
1) Dalapon	6.08	5.16	132.3E6	304.1E6	38.137	186.171 #
3) Dicamba	15.37	14.86	601.3E6	230.3E6	53.558	52.707
4) MCPP	15.67	15.05	79885099	166.3E6	15543.547	54534.624 #
5) MCPA	15.91	15.41	111.2E6	33038146	11392.900	6937.904 #
6) Dichloroprop	16.46	15.89	684.8E6	253.4E6	211.533	188.970
7) 2,4-D	16.84f	16.36f	749.8E6	231.2E6	240.774	163.601 #
8) Pentachloropheno	17.11	16.81	1338.8E6	436.1E6	29.473	25.448
9) 2,4,5-TP	17.91	17.39	830.7E6	304.6E6	46.502m	43.063
10) 2,4,5-T	18.32f	17.90f	589.1E6	251.0E6	38.565	41.854
11) 2,4-DB	18.98f	18.51f	302.2E6	113.3E6	195.353m	155.940m
12) Dinoseb	20.23	18.85	2981.5E6	506.5E6	174.439	102.735 #
13) Picloram	20.17	20.04f	885.4E6	990.0E6	53.849	119.983 #

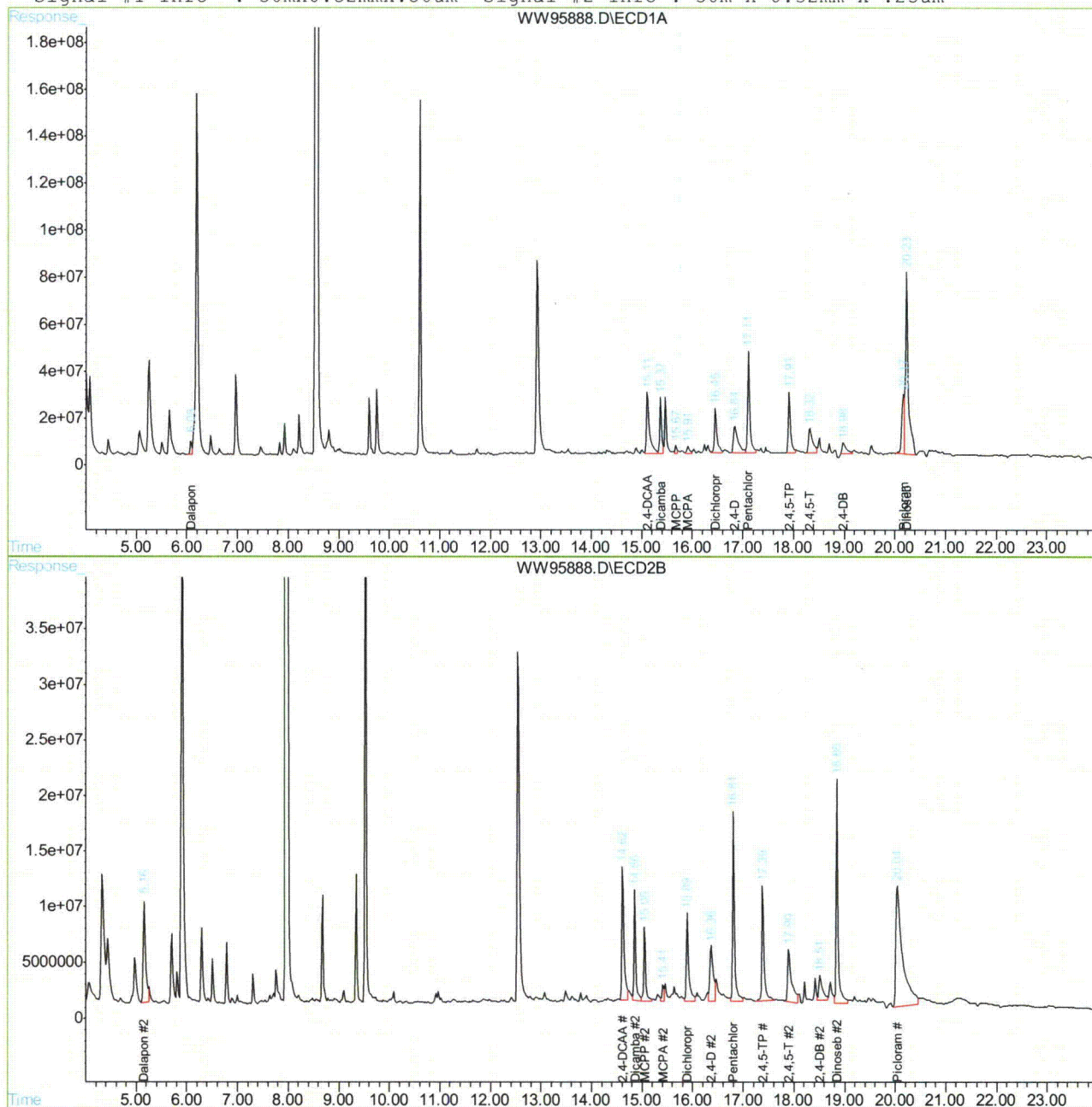
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95888.D HWW3143.M Tue Nov 16 10:09:53 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95888.D\ECD1A.CH Vial: 6  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95888.D\ECD2B.CH  
Acq On : 12 Nov 2010 1:36 pm Operator: toyar  
Sample : OP46441-MSD Inst : GCWW  
Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:09 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLPII Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx.50um Signal #2 Info : 30m x 0.32mm x .25um



WW95888.D HWW3143.M

Tue Nov 16 10:09:53 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46441-MSD  
**Lab FileID:** WW95888.D  
**Injection Time:** 11/12/10 13:36

**Method:** SW846 8151  
**Analyst approved:** 11/29/10 16:01 Toya Dagena Raffington  
**Supervisor approved:** 11/29/10 16:48 Cheng-Hwan Ao

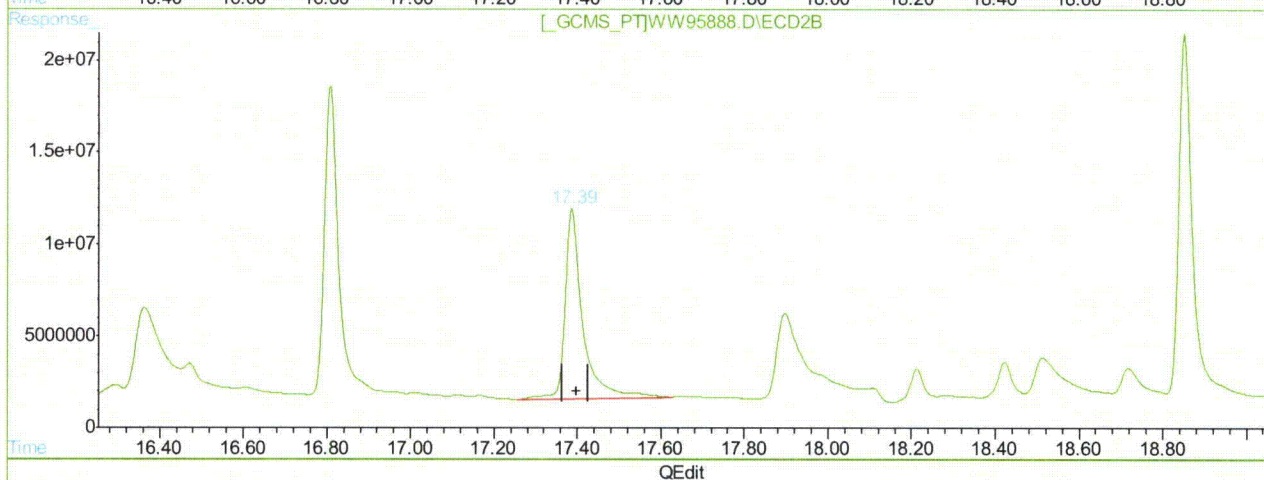
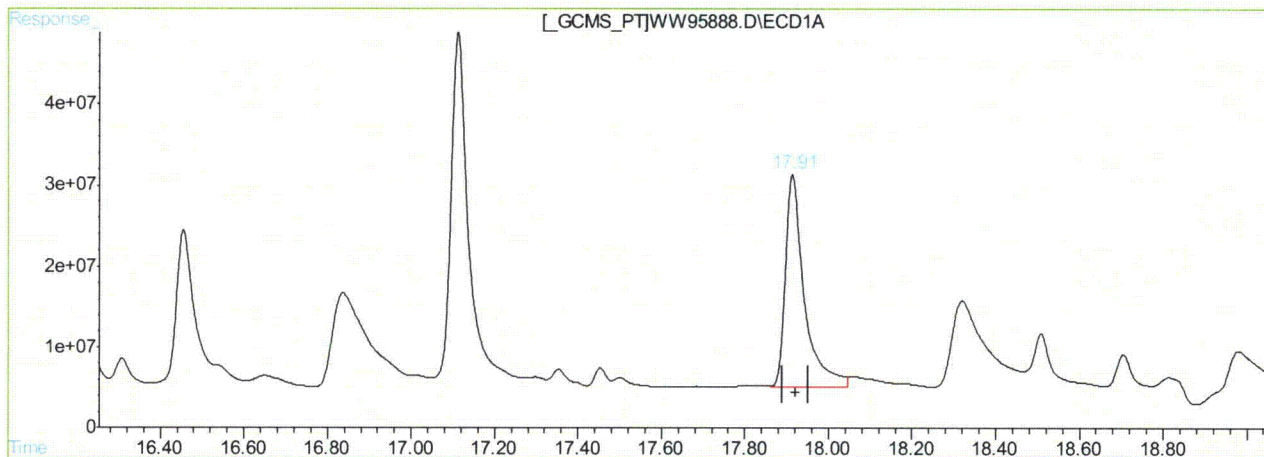
Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4,5-TP (Silvex)	93-72-1	1	17.91	Poorly defined baseline
2,4-DB	94-82-6	2	18.51	Poorly defined baseline
2,4-DB	94-82-6	1	18.98	Poorly defined baseline

10.4.6.1  
10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95888.D\ECD1A.CH Vial: 6  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95888.D\ECD2B.CH  
Acq On : 12 Nov 2010 1:36 pm Operator: toyar  
Sample : OP46441-MSD Inst : GCWW  
Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:08 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration



(9) 2,4,5-TP

17.91min 46.502PPB m

response 830681102

(9) 2,4,5-TP #2

17.39min 43.063PPB

response 304609988

(+) = Expected Retention Time

WW95888.D HWW3143.M

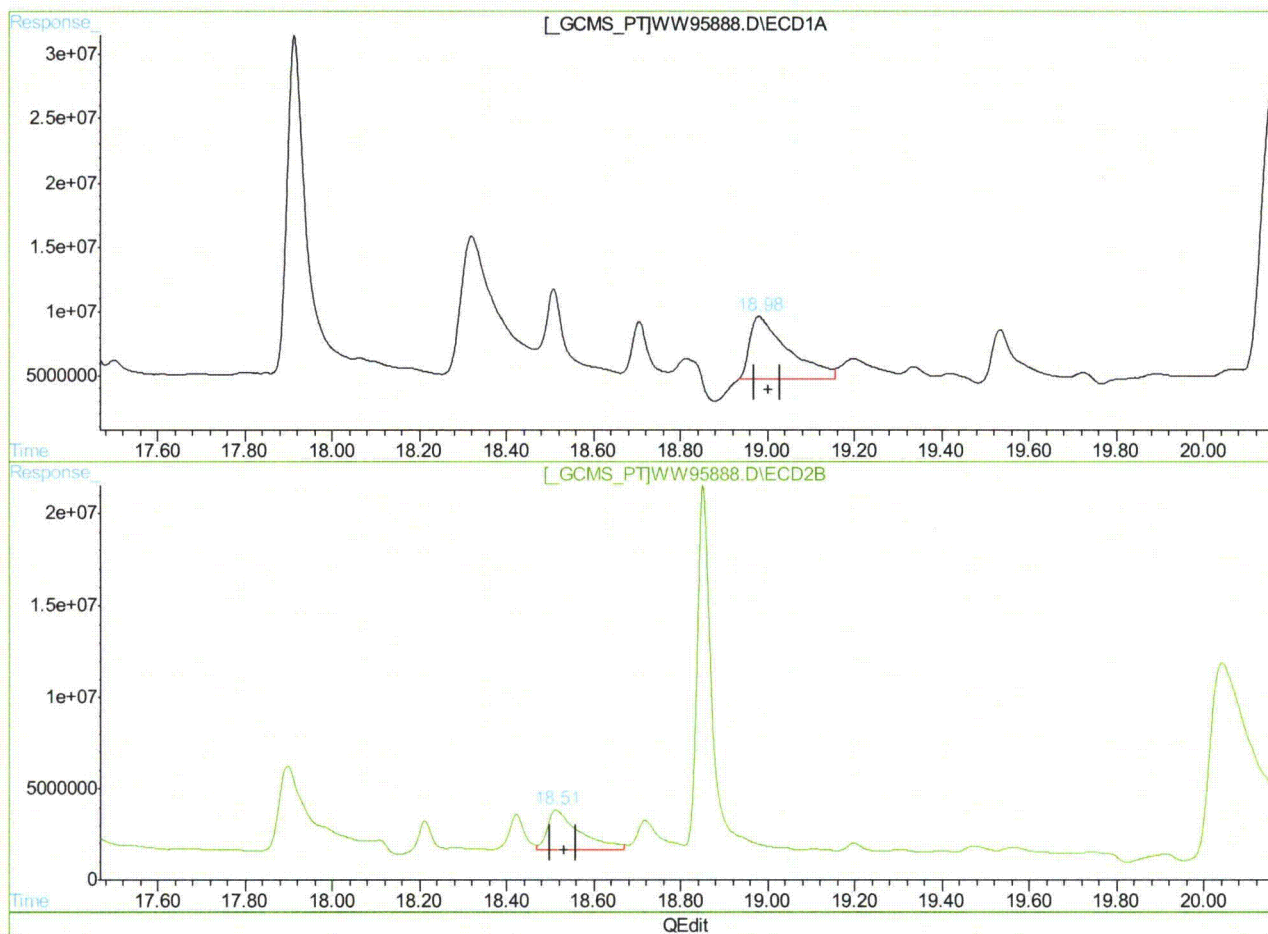
Tue Nov 16 10:09:39 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95888.D\ECD1A.CH Vial: 6  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95888.D\ECD2B.CH  
Acq On : 12 Nov 2010 1:36 pm Operator: toyar  
Sample : OP46441-MSD Inst : GCWW  
Misc : OP46441,Gww3356,35.1,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 10:08 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:57:44 2010  
Response via : Multiple Level Calibration



(11) 2,4-DB

18.98min 195.353PPB m

response 302209201

(11) 2,4-DB #2

18.51min 155.940PPB m

response 113335508

(+) = Expected Retention Time

WW95888.D HWW3143.M

Tue Nov 16 10:09:45 2010

GCCD

Owen McKenna  
11/01/10 11:04

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58176.D\ECD1A.CH Vial: 34  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58176.D\ECD2B.CH  
Acq On : 10-26-10 08:07:18 PM Operator: owenm  
Sample : op46260-ms Inst : GC1G  
Misc : op46260,glg2122,50,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 17:21 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Initial Calibration  
DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.97	2.29	707.3E6	267.7E6	32.136	37.281
Spiked Amount	40.000	Range	30 - 150	Recovery	=	80.34% 93.20%
34) SA Decachlorobiphen	8.64	10.27	859.8E6	150.1E6	27.335	27.148
Spiked Amount	40.000	Range	30 - 150	Recovery	=	68.34% 67.87%
Target Compounds						
3) A alpha-BHC	2.32	2.77	959.6E6	228.1E6	24.187	24.495
4) MA gamma-BHC	2.55	3.10	807.7E6	251.7E6	22.538	28.958
5) MA Heptachlor	2.94	3.58	793.3E6	179.4E6	20.171m	20.050
6) B beta-BHC	2.61	3.17	432.3E6	97235429	26.797	21.915
7) B delta-BHC	2.76	3.48	764.9E6	181.3E6	27.991m	29.136
8) MB Aldrin	3.23	3.96	591.7E6	94107084	15.784m	11.260
9) B Heptachlor Epoxi	3.85	4.67	745.3E6	178.4E6	21.292	22.238
10) B gamma-Chlordane	3.99	4.92	671.3E6	170.0E6	19.011	20.846
11) B alpha-Chlordane	4.15	5.13	770.1E6	165.1E6	22.722	20.626
12) A Endosulfan I	4.31	5.21	757.6E6	163.6E6	21.919	21.862
13) B 4,4'-DDE	4.24	5.37	648.1E6	147.3E6	18.765	19.131
14) MA Dieldrin	4.61	5.60	769.5E6	186.3E6	21.339	23.596
15) MA Endrin	4.91	6.05	753.1E6	164.8E6	24.020	24.285
16) A 4,4'-DDD	5.02	6.24	652.6E6	138.8E6	24.266	22.286
17) B Endosulfan II	5.21	6.37	709.4E6	168.3E6	23.291	24.849
18) MA 4,4'-DDT	5.41	6.74	600.7E6	113.7E6	25.221	21.334
19) B Endrin Aldehyde	5.80	6.91	566.2E6	118.8E6	21.971	19.950
20) B Endosulfan Sulfa	6.46	7.37	436.5E6	94506944	21.739	20.489
21) A Methoxychlor	6.16	7.91	313.3E6	79628224	24.276	26.764
23) B Endrin Ketone	6.88	8.25	764.1E6	151.1E6	27.941	24.852

(f)=RT Delta > 1/2 Window  
1G58176.D 1PST2096.M

Fri Oct 29 17:21:24 2010

(m)=manual int.  
RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58176.D\ECD1A.CH Vial: 34  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58176.D\ECD2B.CH  
Acq On : 10-26-10 08:07:18 PM Operator: owenm  
Sample : op46260-ms Inst : GC1G  
Misc : op46260,glg2122,50,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 17:21 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

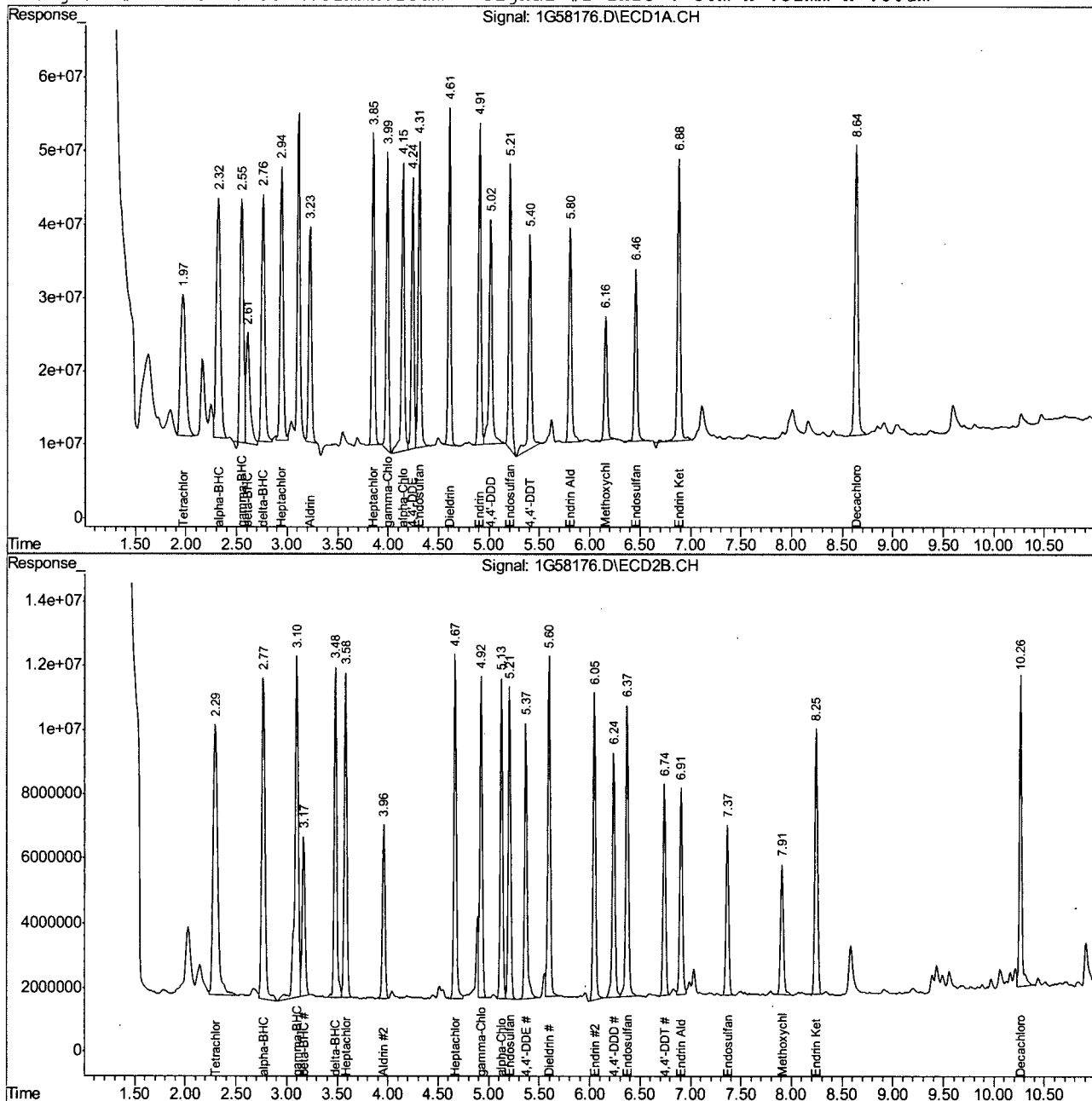
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G58176.D 1PST2096.M

Fri Oct 29 17:21:24 2010

RPT1

Page 2

10.4.7 10

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46260-MS      **Method:** SW846 8081A  
**Lab FileID:** 1G58176.D      **Analyst approved:** 10/29/10 17:23 Owen McKenna  
**Injection Time:** 10/26/10 20:07      **Supervisor approved:** 11/01/10 11:04 Owen McKenna

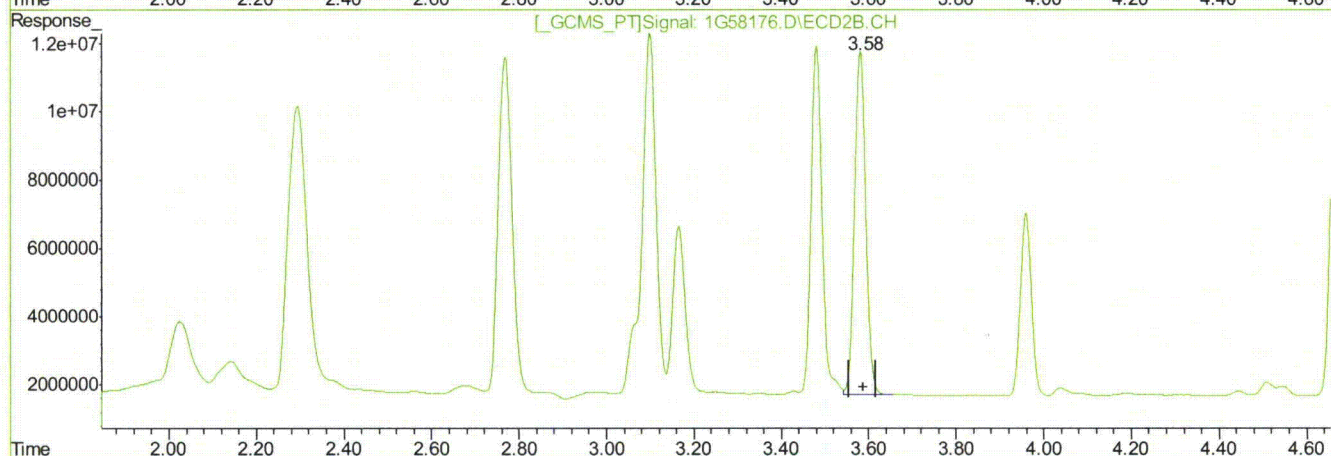
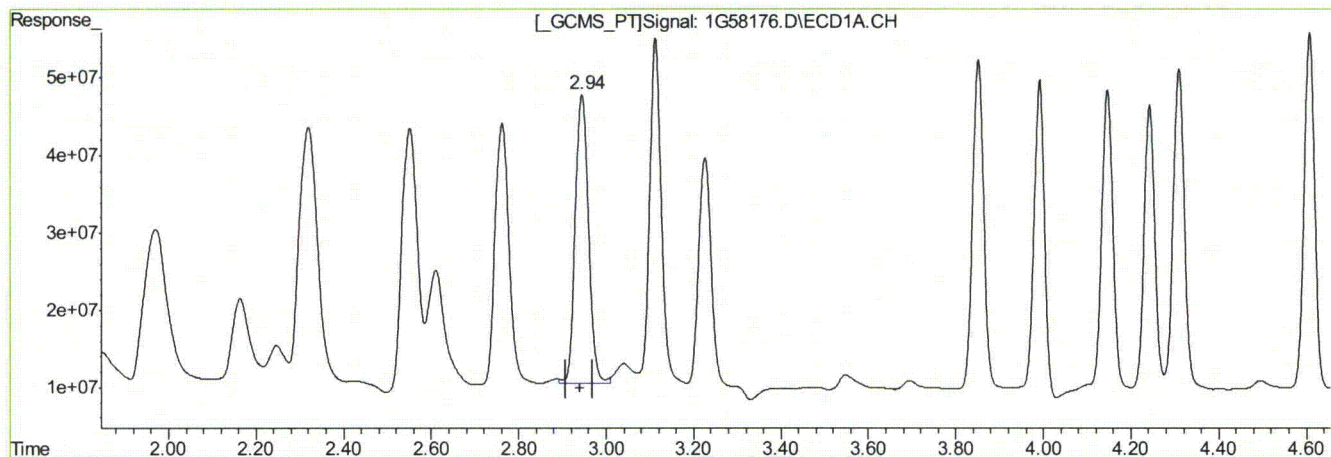
Parameter	CAS	Sig#	R. T. (min.)	Reason
delta-BHC	319-86-8	1	2.76	Poorly defined baseline
Heptachlor	76-44-8	1	2.94	Poorly defined baseline
Aldrin	309-00-2	1	3.23	Poorly defined baseline

10.4.7.1  
10

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58176.D\ECD1A.CH Vial: 34  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58176.D\ECD2B.CH  
Acq On : 10-26-10 08:07:18 PM Operator: owenm  
Sample : op46260-ms Inst : GC1G  
Misc : op46260,glg2122,50,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 17:20 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration



(5) Heptachlor (MA)  
2.94min 20.171PPB m  
response 793250014

(5) Heptachlor #2 (MA)  
3.58min 20.050PPB  
response 179392467

(+) = Expected Retention Time

1G58176.D 1PST2096.M

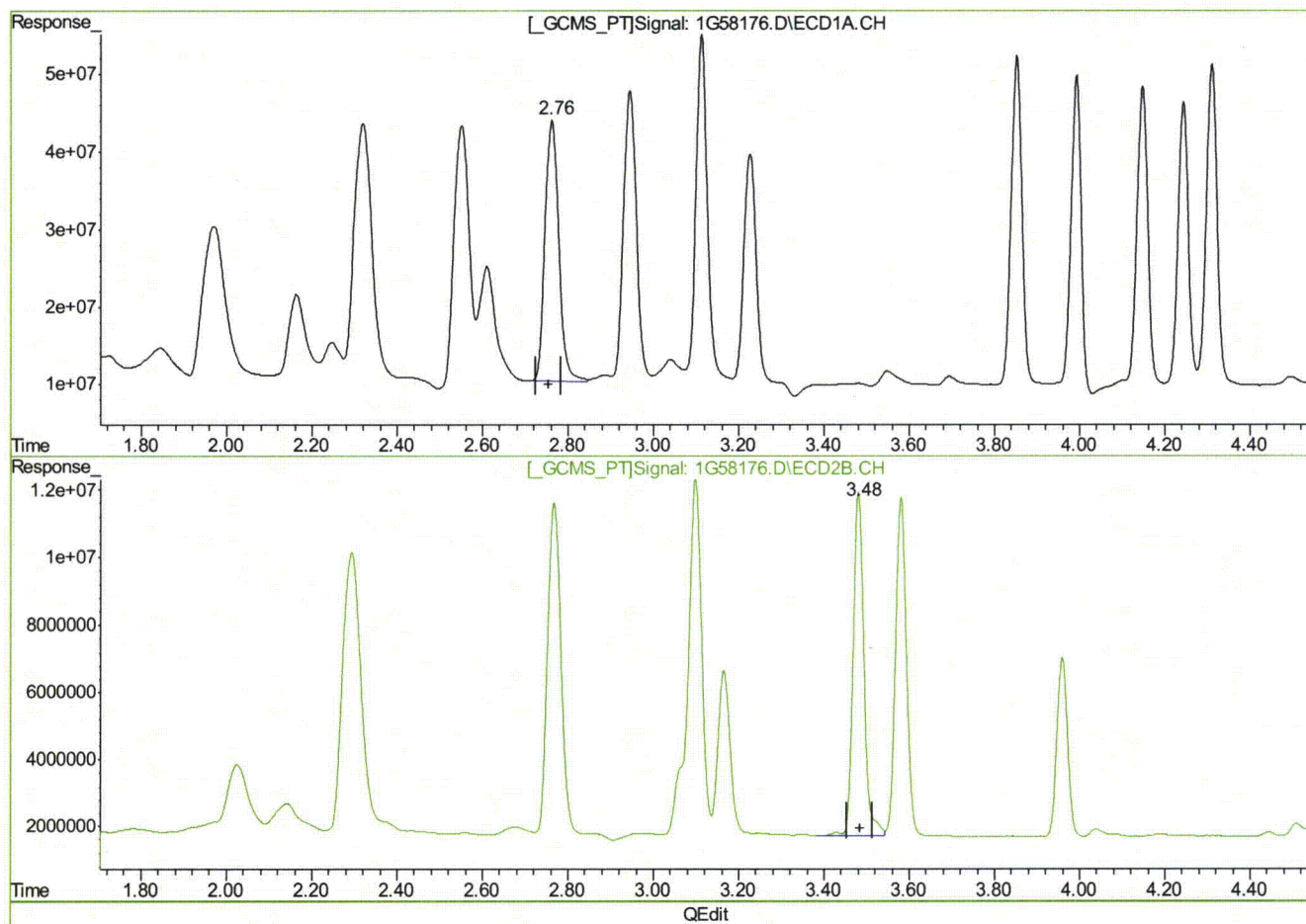
Fri Oct 29 17:21:01 2010

RPT1

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58176.D\ECD1A.CH Vial: 34  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58176.D\ECD2B.CH  
Acq On : 10-26-10 08:07:18 PM Operator: owenm  
Sample : op46260-ms Inst : GC1G  
Misc : op46260,glg2122,50,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 17:20 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration



(7) delta-BHC (B)  
2.76min 27.991PPB m  
response 764897408

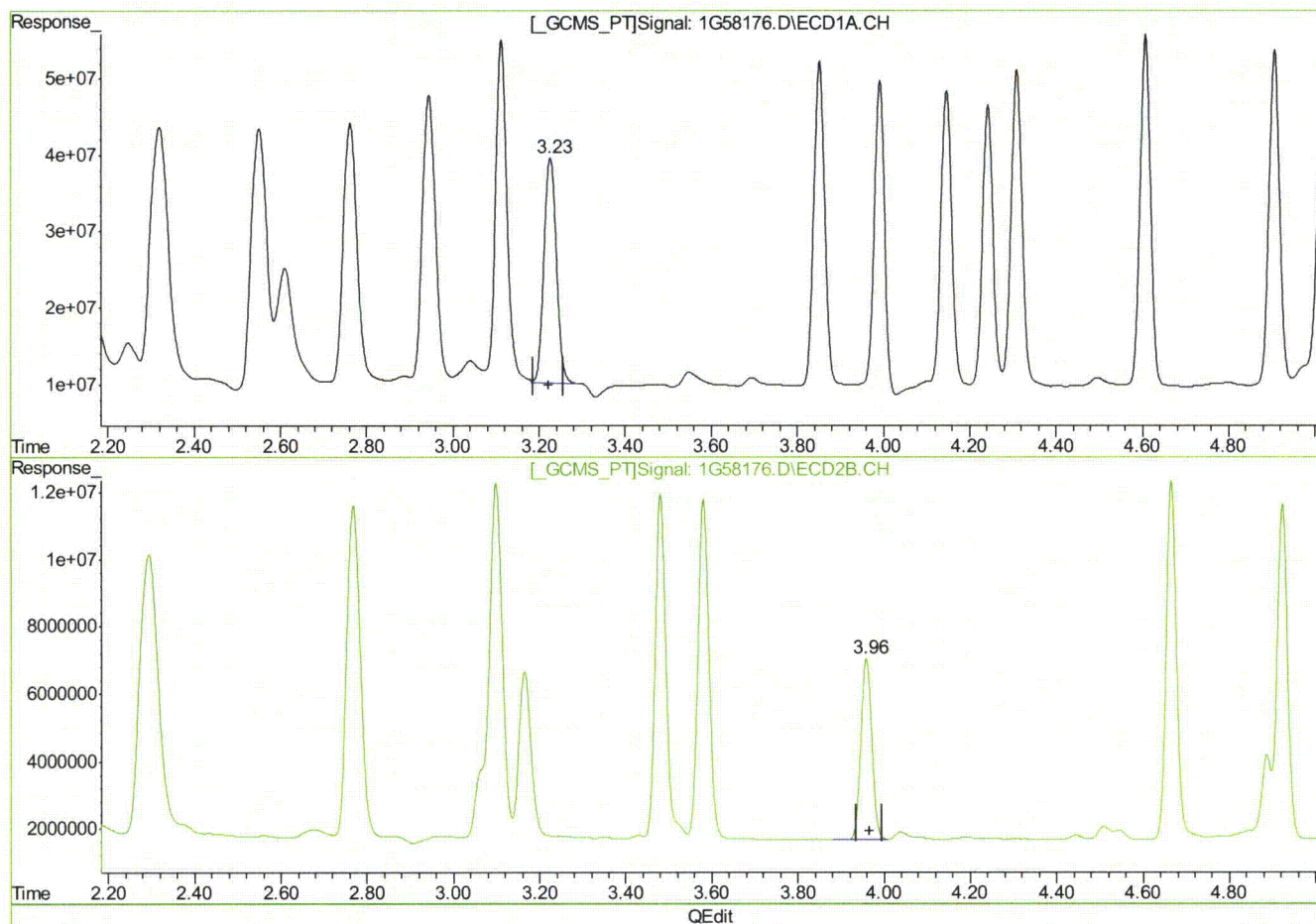
(7) delta-BHC #2 (B)  
3.48min 29.136PPB  
response 181251573

(+) = Expected Retention Time  
1G58176.D 1PST2096.M Fri Oct 29 17:21:09 2010 RPT1

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58176.D\ECD1A.CH Vial: 34  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58176.D\ECD2B.CH  
Acq On : 10-26-10 08:07:18 PM Operator: owenm  
Sample : op46260-ms Inst : GC1G  
Misc : op46260,glg2122,50,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 17:20 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration



(8) Aldrin (MB)  
3.23min 15.784PPB m  
response 591665494

(8) Aldrin #2 (MB)  
3.96min 11.260PPB  
response 94107084

(+) = Expected Retention Time  
1G58176.D 1PST2096.M Fri Oct 29 17:21:16 2010

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58177.D\ECD1A.CH Vial: 35  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58177.D\ECD2B.CH  
 Acq On : 10-26-10 08:22:33 PM Operator: owenm  
 Sample : op46260-msd Inst : GC1G  
 Misc : op46260,glg2122,50,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 29 17:21 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Oct 20 16:45:53 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.97	2.30	669.1E6	253.9E6	30.398	35.352
Spiked Amount	40.000	Range	30 - 150	Recovery	=	76.00% 88.38%
34) SA Decachlorobiphen	8.64	10.27	797.8E6	127.5E6	25.364	23.051
Spiked Amount	40.000	Range	30 - 150	Recovery	=	63.41% 57.63%
Target Compounds						
3) A alpha-BHC	2.32	2.77	965.9E6	234.4E6	24.347	25.163
4) MA gamma-BHC	2.55	3.10	815.0E6	252.2E6	22.741	29.010
5) MA Heptachlor	2.95	3.58	747.9E6	175.3E6	19.016m	19.590
6) B beta-BHC	2.61	3.17	422.3E6	100.3E6	26.174	22.610
7) B delta-BHC	2.76	3.48	761.0E6	182.7E6	27.848m	29.369
8) MB Aldrin	3.23	3.96	580.9E6	95341214	15.496m	11.408
9) B Heptachlor Epoxi	3.85	4.67	743.0E6	178.8E6	21.225	22.292
10) B gamma-Chlordane	3.99	4.93	663.6E6	166.7E6	18.793	20.444
11) B alpha-Chlordane	4.15	5.13	744.0E6	162.1E6	21.953	20.249
12) A Endosulfan I	4.31	5.21	754.6E6	164.7E6	21.833	22.009
13) B 4,4'-DDE	4.24	5.37	615.8E6	140.5E6	17.830	18.248
14) MA Dieldrin	4.61	5.60	765.9E6	194.6E6	21.239	24.645
15) MA Endrin	4.91	6.05	746.1E6	163.4E6	23.798	24.081
16) A 4,4'-DDD	5.02	6.24	616.0E6	132.5E6	22.905	21.283
17) B Endosulfan II	5.21	6.37	703.4E6	167.1E6	23.097	24.685
18) MA 4,4'-DDT	5.41	6.74	553.3E6	107.8E6	23.229	20.215
19) B Endrin Aldehyde	5.81	6.91	560.3E6	123.5E6	21.740	20.731
20) B Endosulfan Sulfa	6.46	7.37	415.6E6	90964008	20.698	19.721
21) A Methoxychlor	6.16	7.91	305.0E6	73138928	23.629	24.583
23) B Endrin Ketone	6.88	8.25	677.3E6	150.6E6	24.765	24.779

(f)=RT Delta &gt; 1/2 Window

1G58177.D 1PST2096.M

Fri Oct 29 17:22:32 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58177.D\ECD1A.CH Vial: 35  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58177.D\ECD2B.CH  
Acq On : 10-26-10 08:22:33 PM Operator: owenm  
Sample : op46260-msd Inst : GC1G  
Misc : op46260,glg2122,50,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 17:21 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

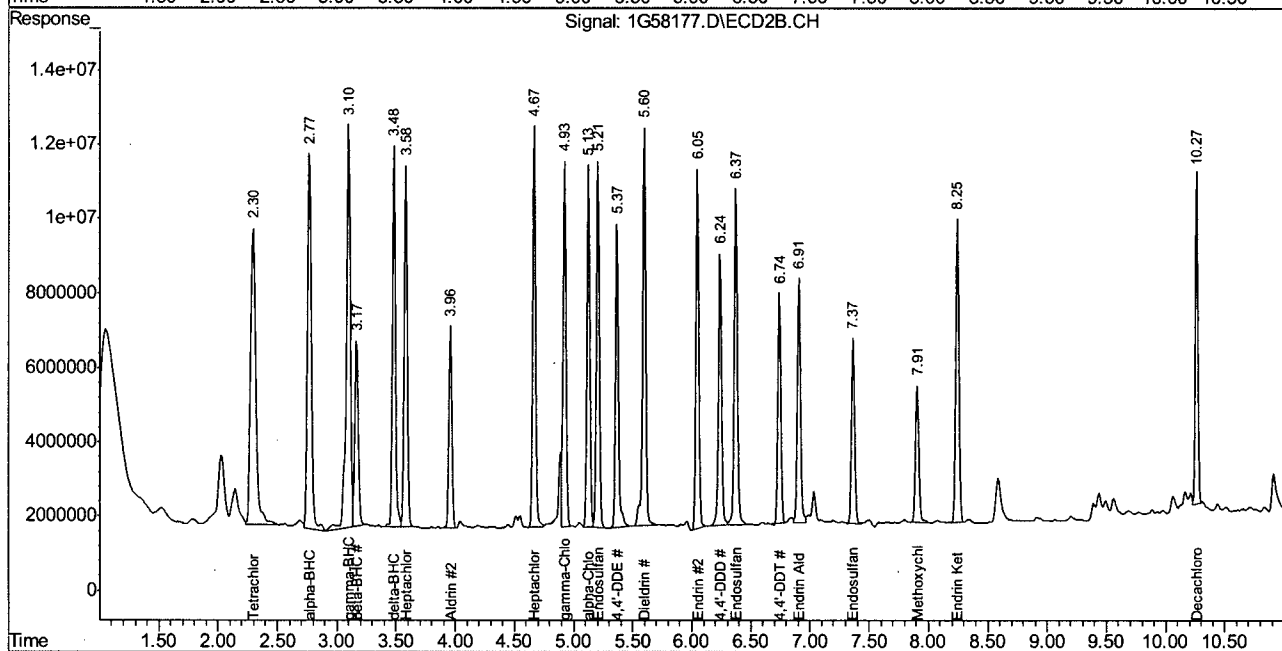
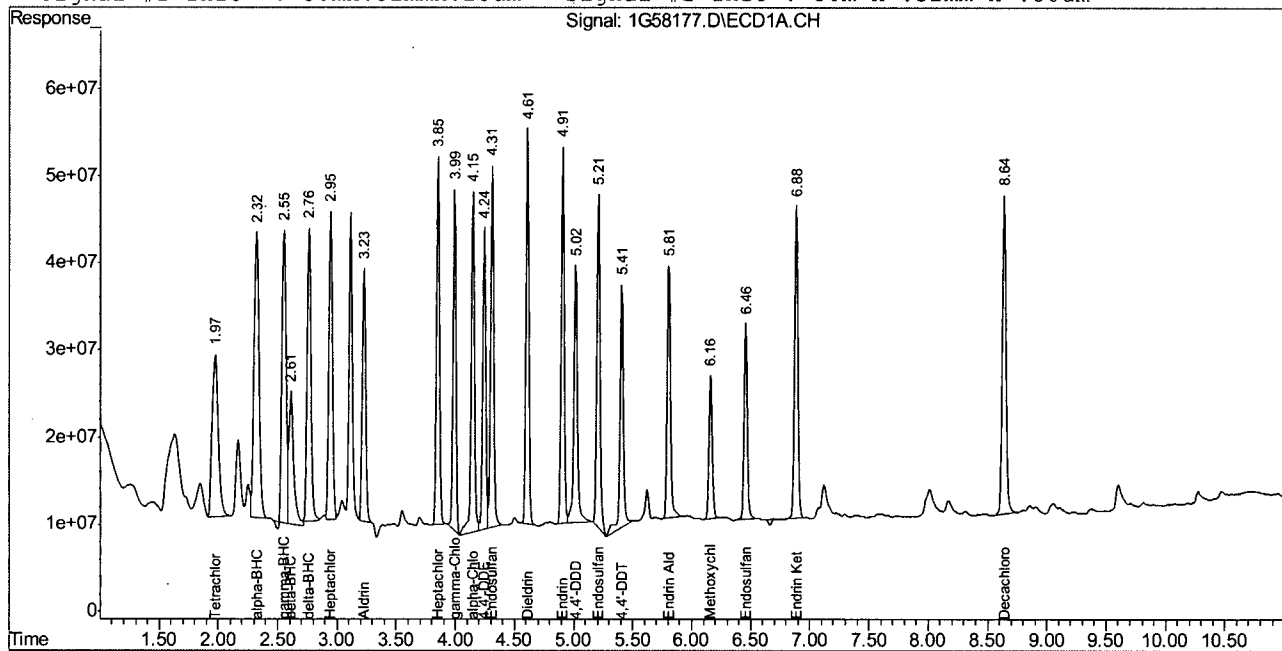
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G58177.D 1PST2096.M

Fri Oct 29 17:22:33 2010

RPT1

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46260-MSD      **Method:** SW846 8081A  
**Lab FileID:** 1G58177.D      **Analyst approved:** 10/29/10 17:23 Owen McKenna  
**Injection Time:** 10/26/10 20:22      **Supervisor approved:** 11/01/10 11:04 Owen McKenna

Parameter	CAS	Sig#	R.T. (min.)	Reason
delta-BHC	319-86-8	1	2.76	Poorly defined baseline
Heptachlor	76-44-8	1	2.95	Poorly defined baseline
Aldrin	309-00-2	1	3.23	Poorly defined baseline

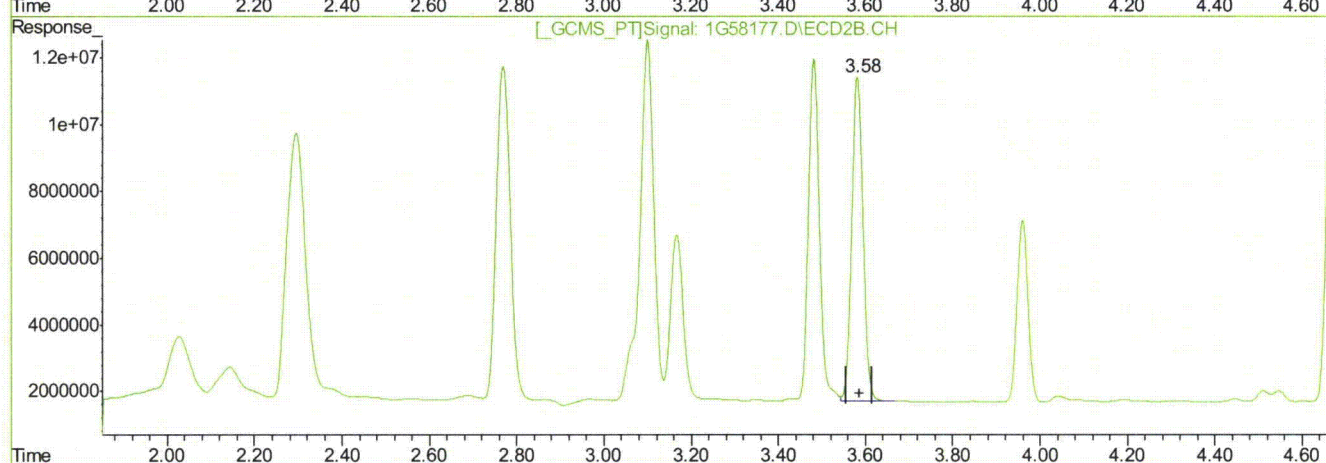
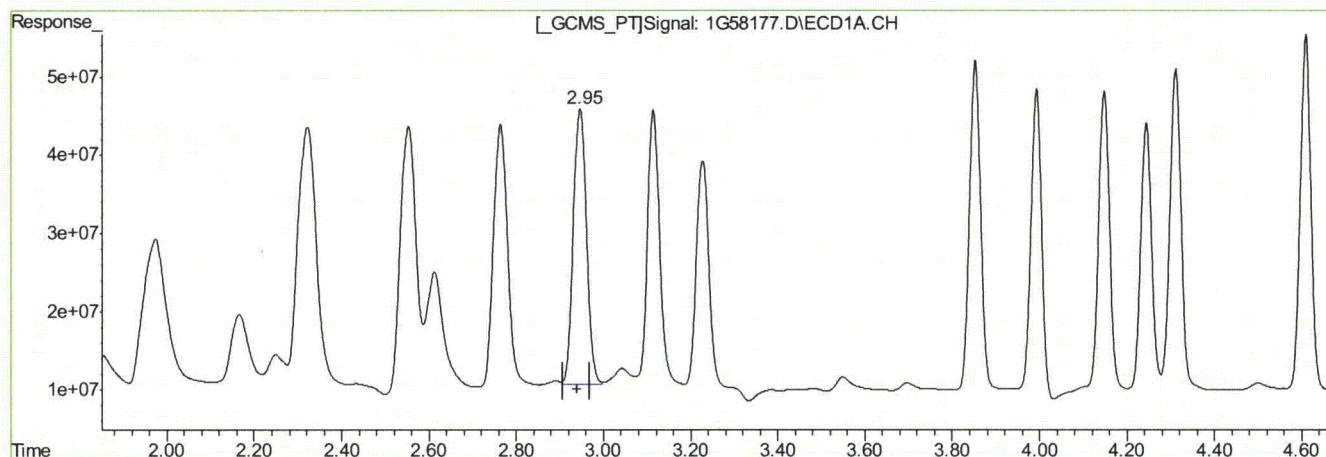
10.4.8.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58177.D\ECD1A.CH Vial: 35  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58177.D\ECD2B.CH  
Acq On : 10-26-10 08:22:33 PM Operator: owenm  
Sample : op46260-msd Inst : GC1G  
Misc : op46260,glg2122,50,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 17:20 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration



(5) Heptachlor (MA)  
2.95min 19.016PPB m  
response 747853921

(5) Heptachlor #2 (MA)  
3.58min 19.590PPB  
response 175280856

(+) = Expected Retention Time

1G58177.D 1PST2096.M

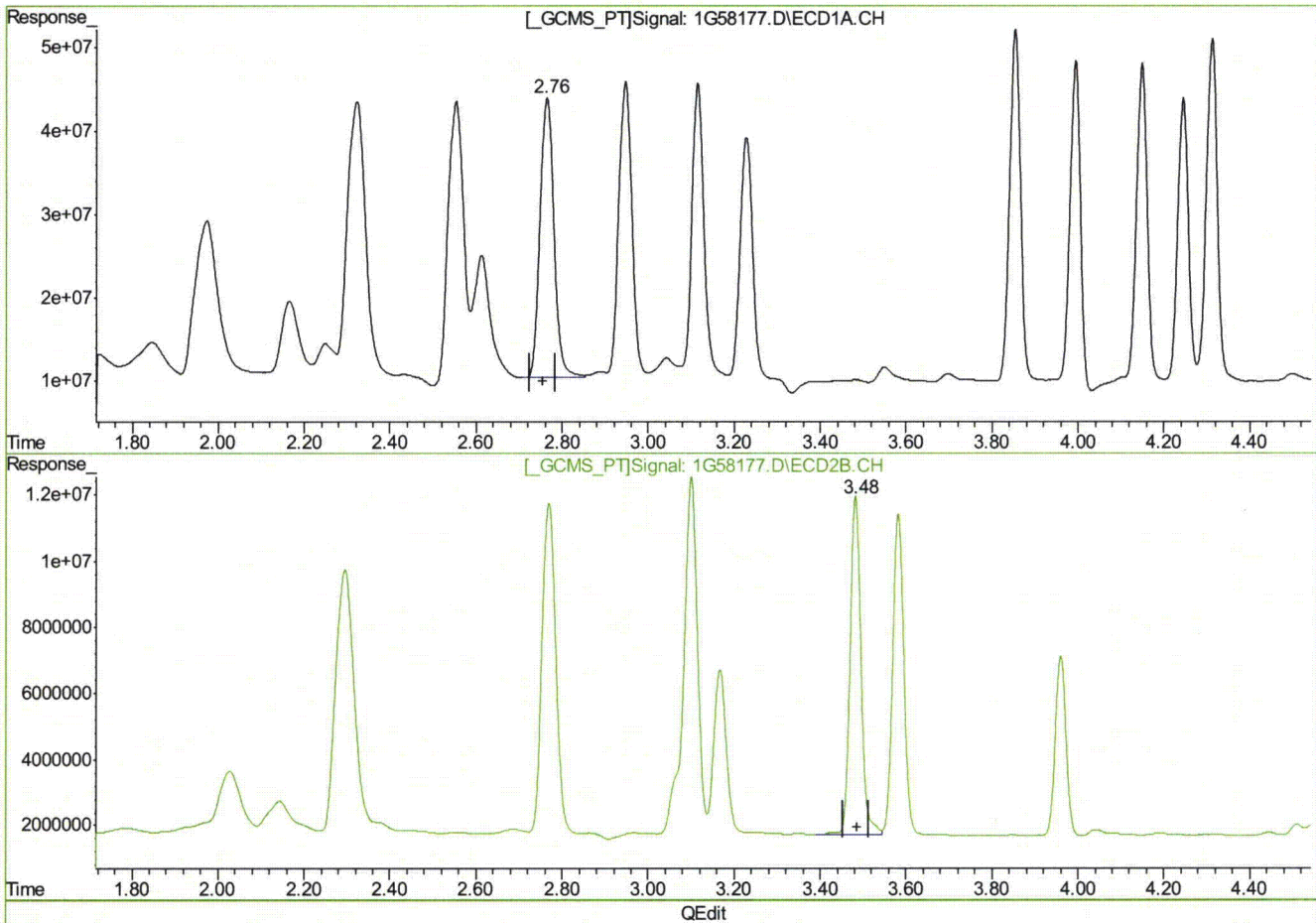
Fri Oct 29 17:21:40 2010

RPT1

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58177.D\ECD1A.CH Vial: 35  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58177.D\ECD2B.CH  
Acq On : 10-26-10 08:22:33 PM Operator: owenm  
Sample : op46260-msd Inst : GC1G  
Misc : op46260,glg2122,50,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 17:20 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration



(7) delta-BHC (B)  
2.76min 27.848PPB m  
response 760968487

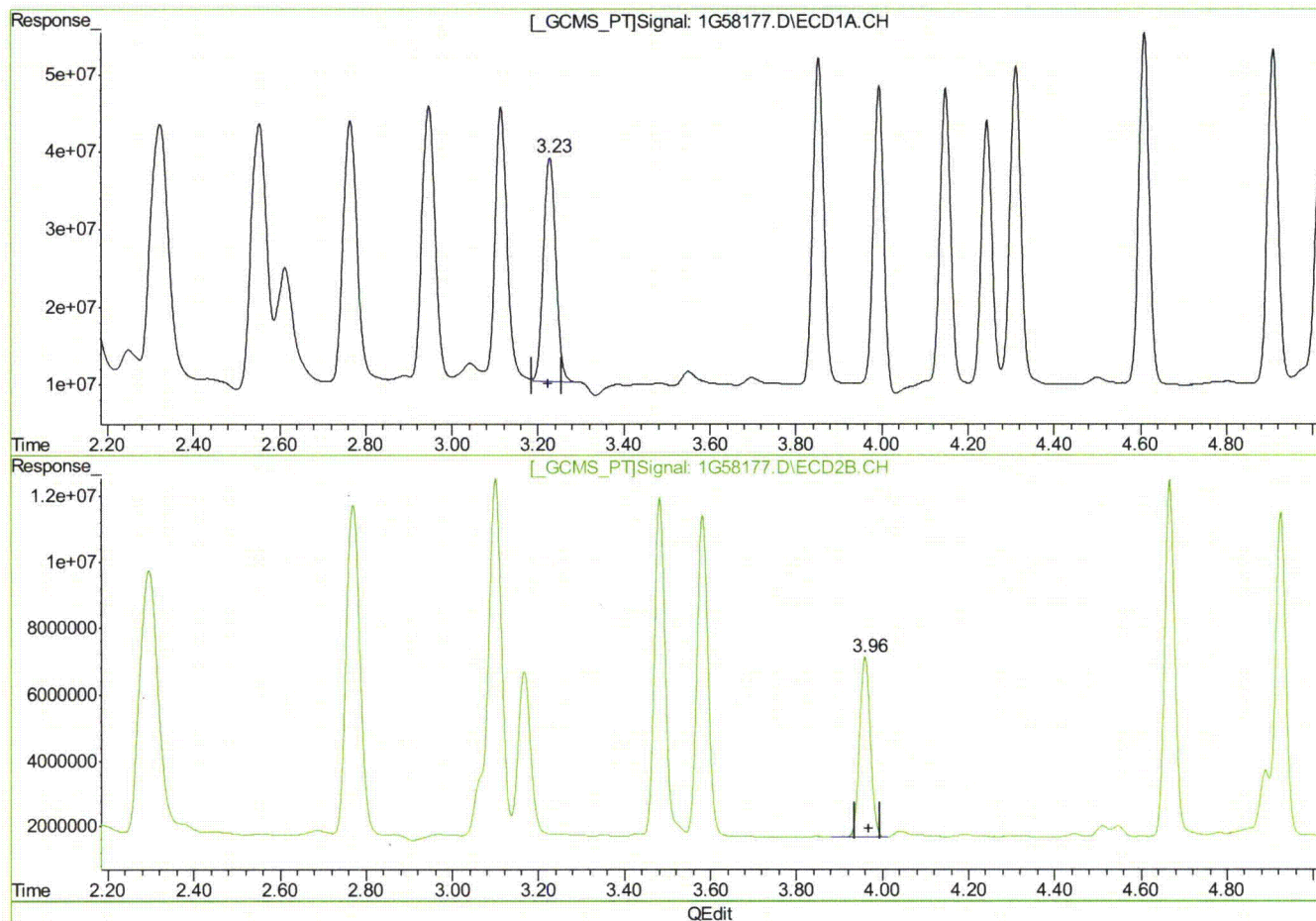
(7) delta-BHC #2 (B)  
3.48min 29.369PPB  
response 182698392

(+) = Expected Retention Time  
1G58177.D 1PST2096.M Fri Oct 29 17:21:49 2010 RPT1

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58177.D\ECD1A.CH Vial: 35  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58177.D\ECD2B.CH  
Acq On : 10-26-10 08:22:33 PM Operator: owenm  
Sample : op46260-msd Inst : GC1G  
Misc : op46260,glg2122,50,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 17:20 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration



(8) Aldrin (MB)

3.23min 15.496PPB m

response 580863956

(8) Aldrin #2 (MB)

3.96min 11.408PPB

response 95341214

(+) = Expected Retention Time

1G58177.D 1PST2096.M

Fri Oct 29 17:21:54 2010

RPT1

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g27\  
 Data File : 4g931.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 1 Nov 2010 2:31 pm  
 Operator : owenm  
 Sample : op46373-ms  
 Misc : op46373,g4g27,17.0,,,10,1  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Nov 02 14:36:25 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
 Quant Title : PEST/PCB  
 QLast Update : Mon Nov 01 09:27:25 2010  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
 Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachlo...	1.978	2.335	103.5E6	81368437	31.039	28.746
Spiked Amount	40.000 Range	30 - 150	Recovery	=	77.60%	71.86%
34) SA Decachlor...	8.717	10.386	109.6E6	69225069	35.036	33.977
Spiked Amount	40.000 Range	30 - 150	Recovery	=	87.59%	84.94%
Target Compounds						
3) A alpha-BHC	2.345	2.837	90064055	51720411	19.153	15.937
4) MA gamma-BHC	2.584	3.182	73011857	55451738	17.036	17.739
5) MA Heptachlor	2.986	3.675	83127371	54443453	18.506	16.298
6) B beta-BHC	2.645	3.249	37088176	28514373	17.541	16.680
7) B delta-BHC	2.799	3.574	73304046	54732704	17.348	18.451
8) MB Aldrin	3.273	4.065	71855699	47828305	17.623	17.797
9) B Heptachlo...	3.909	4.787	70195661	49001890	17.554	16.812
10) B gamma-Chl...	4.051	5.027f	70807330	278.5E6	17.930	95.344 #
11) B alpha-Chl...	4.208	5.252	68954467	49239383	17.640	17.020
12) A Endosulfan I	4.374	5.336	67416915	45292623	17.846	16.971
13) B 4,4'-DDE	4.303	5.492	71253219	47306343	19.087	19.536
14) MA Dieldrin	4.673	5.733	72581453	48383406	18.242	17.388
15) MA Endrin	4.976	6.191	70275849	46683745	18.784	17.923
16) A 4,4'-DDD	5.083	6.376	61336135	39803248	19.049	17.910
17) B Endosulfa...	5.279	6.518	61103780	41931333	17.050	16.561
18) MA 4,4'-DDT	5.475	6.882	59837844	38704396	17.811	16.516
19) B Endrin Al...	5.881	7.059	38836488	24138810	12.203	10.917
20) B Endosulfa...	6.538	7.521	44924640	29723078	13.385	12.547
21) A Methoxychlor	6.225	8.052	31978751	22513522	17.068	16.061
23) B Endrin Ke...	6.966	8.412	59405394	39710647	14.204	13.138
-----						

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

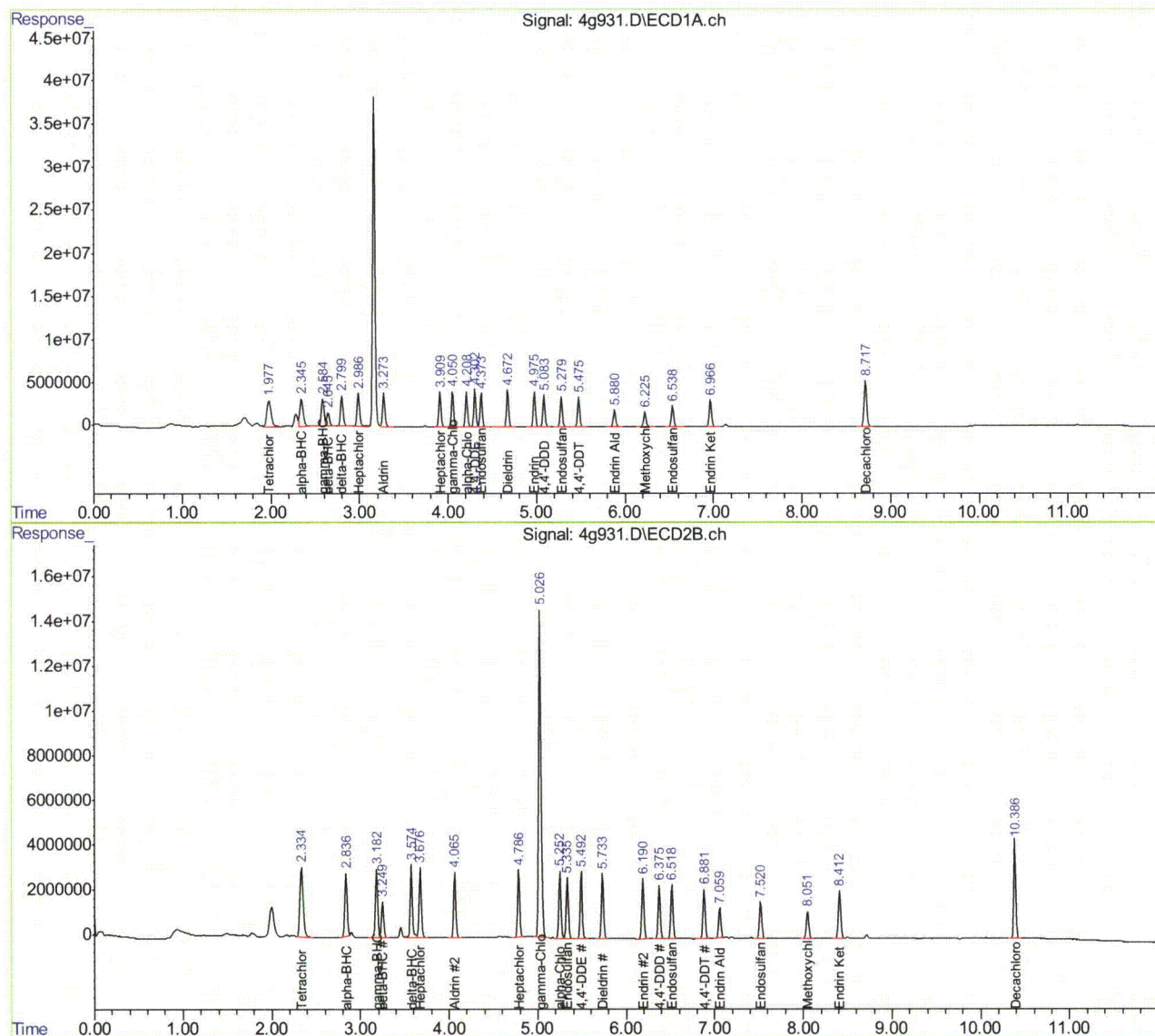
10.4.9 10

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g27\  
Data File : 4g931.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 1 Nov 2010 2:31 pm  
Operator : owenm  
Sample : op46373-ms  
Misc : op46373,g4g27,17.0,,,10,1  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 02 14:36:25 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Mon Nov 01 09:27:25 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



10.4.9 10

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g27\  
 Data File : 4g932.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 1 Nov 2010 2:45 pm  
 Operator : owenm  
 Sample : op46373-msd  
 Misc : op46373,g4g27,17.0,,,10,1  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Nov 02 14:37:03 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
 Quant Title : PEST/PCB  
 QLast Update : Mon Nov 01 09:27:25 2010  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
 Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachlo...	1.979	2.336	129.0E6	105.2E6	38.697	37.176
Spiked Amount	40.000 Range	30 - 150	Recovery	=	96.74%	92.94%
34) SA Decachlor...	8.718	10.385	130.5E6	81597715	41.715	40.050
Spiked Amount	40.000 Range	30 - 150	Recovery	=	104.29%	100.13%
Target Compounds						
3) A alpha-BHC	2.346	2.837	111.8E6	72220910	23.775	22.254
4) MA gamma-BHC	2.584	3.182	92909421	71663829	21.679	22.925
5) MA Heptachlor	2.987	3.675	103.9E6	69788007	23.141	20.891
6) B beta-BHC	2.645	3.249	46171040	35857144	21.837	20.975
7) B delta-BHC	2.800	3.574	91580683	68201806	21.673	22.991
8) MB Aldrin	3.274	4.064	90712120	62206446	22.247	23.147
9) B Heptachlo...	3.909	4.787	88139769	62376803	22.042	21.401
10) B gamma-Chl...	4.051	5.026f	88852930	279.9E6	22.499	95.832 #
11) B alpha-Chl...	4.208	5.252	86168642	61841798	22.043	21.376
12) A Endosulfan I	4.375	5.336	84103484	56891641	22.263	21.317
13) B 4,4'-DDE	4.303	5.492	89016861	60022779	23.845	24.787
14) MA Dieldrin	4.674	5.733	90637866	61311837	22.781	22.035
15) MA Endrin	4.976	6.190	88230150	58824634	23.583	22.584
16) A 4,4'-DDD	5.083	6.375	76492390	50589729	23.757	22.763
17) B Endosulfa...	5.280	6.518	76141575	52152896	21.245	20.598
18) MA 4,4'-DDT	5.475	6.881	76228705	49040588	22.690	20.927
19) B Endrin Al...	5.881	7.058	47727233	29604973	14.996	13.390
20) B Endosulfa...	6.539	7.520	53265961	36337564	15.870	15.340
21) A Methoxychlor	6.225	8.051	39387099	28202430	21.022	20.119
23) B Endrin Ke...	6.966	8.412	71943662	48731645	17.202	16.123
-----						

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

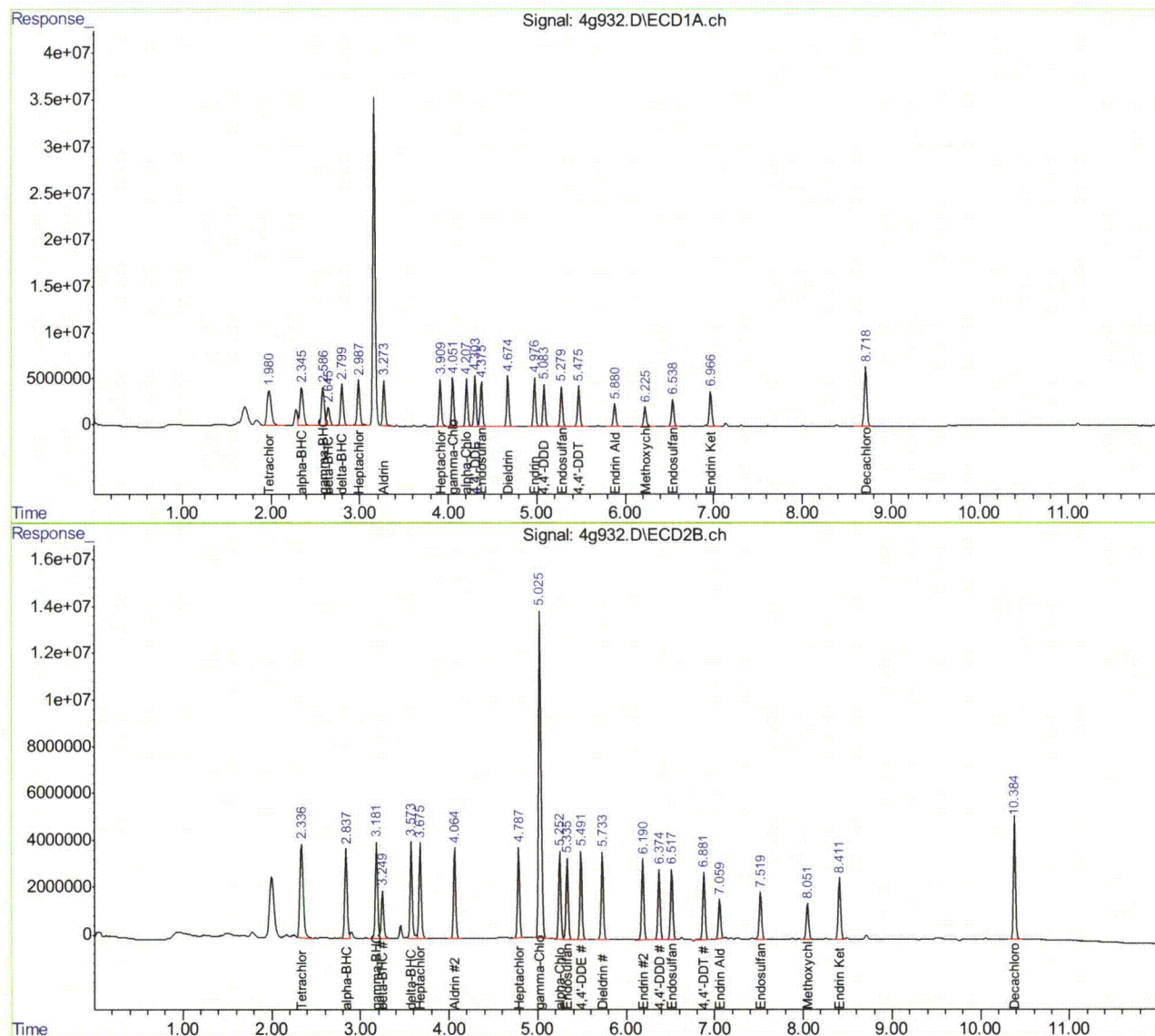
10.4.10 10

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g27\  
Data File : 4g932.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 1 Nov 2010 2:45 pm  
Operator : owenm  
Sample : op46373-msd  
Misc : op46373,g4g27,17.0,,,10,1  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 02 14:37:03 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Mon Nov 01 09:27:25 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



10.4.10 10

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1848\3G50192.D\ECD1A.CH Vial: 17  
 Signal #2 : C:\MSDCHEM\1\DATA\1848\3G50192.D\ECD2B.CH  
 Acq On : 10-21-2010 02:35:17 PM Operator: toyar  
 Sample : op46259-ms Inst : GC3G  
 Misc : OP46259,g3g1848,470,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Oct 21 14:47:42 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Wed Oct 06 13:23:17 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.18	684.7E6	530.8E6	27.324	28.785
Spiked Amount 40.000			Recovery	=	68.31%	71.96%
50) S Decachlorobiphen	9.04	9.25f	660.8E6	449.4E6	27.959	32.884
Spiked Amount 40.000			Recovery	=	69.90%	82.21%
Target Compounds						
30) AR1016-A	2.68	2.63	86991850	57429375	180.250	190.498
31) AR1016-B	3.05	3.03	115.5E6	92481342	133.377	155.879
32) AR1016-C	3.58	3.54	267.2E6	182.5E6	133.337	148.351
33) AR1016-D	3.73	3.69	95846094	81701139	127.267	150.717
34) AR1016-E	4.20	4.21f	103.0E6	54177484	134.457	146.799
35) AR1260-A	6.05	6.04f	233.7E6	139.3E6	132.834	158.807
36) AR1260-B	6.40	6.47f	305.9E6	193.5E6	163.799	162.389
37) AR1260-C	6.86	6.96f	193.4E6	118.4E6	169.245	168.348
38) AR1260-D	7.26	7.30f	465.8E6	268.4E6	162.694	169.500

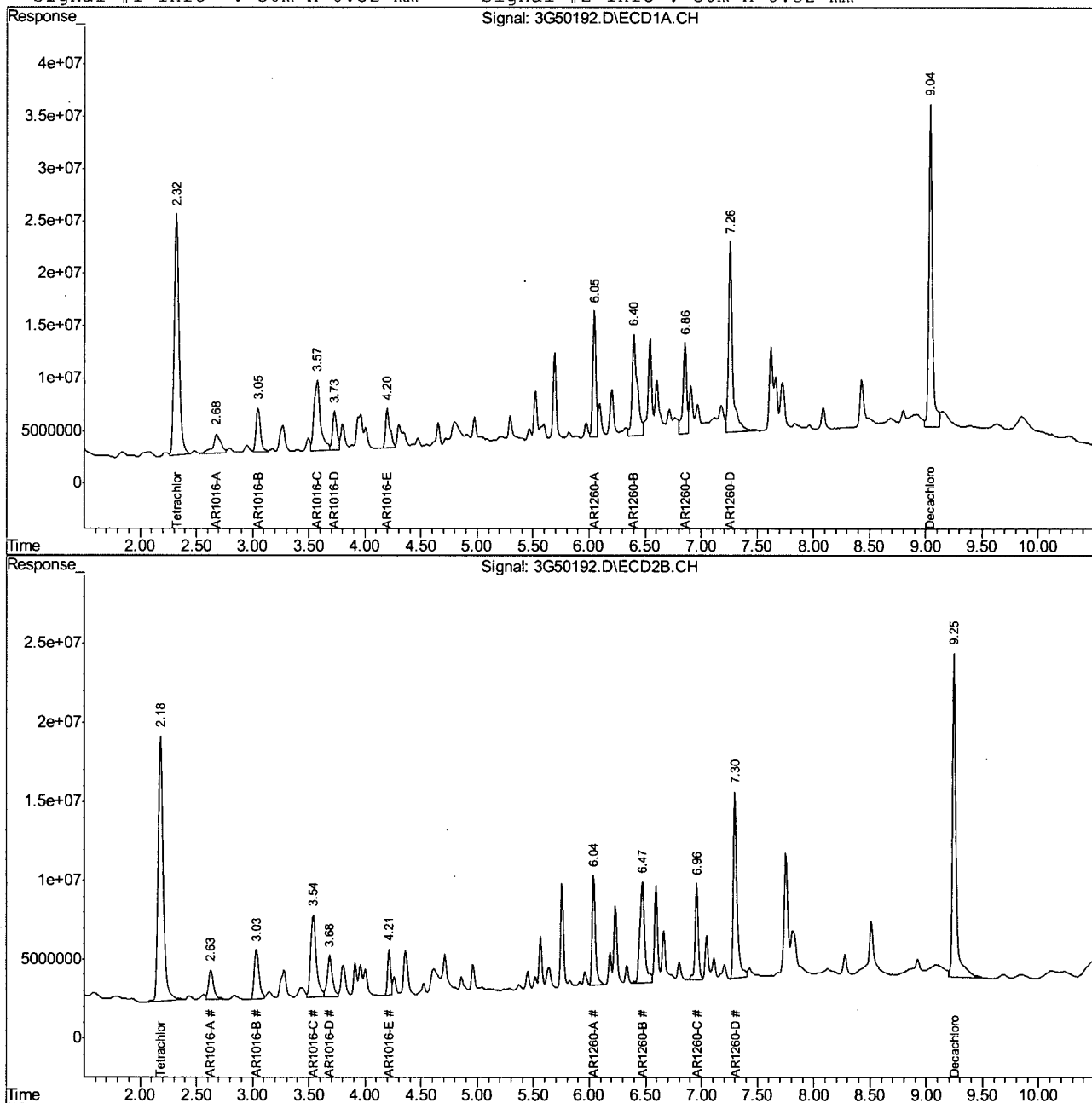
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G50192.D PCB1826.M Fri Oct 22 10:04:54 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1848\3G50192.D\ECD1A.CH Vial: 17  
Signal #2 : C:\MSDCHEM\1\DATA\1848\3G50192.D\ECD2B.CH  
Acq On : 10-21-2010 02:35:17 PM Operator: toyar  
Sample : op46259-ms Inst : GC3G  
Misc : OP46259,g3g1848,470,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Oct 21 17:03 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Wed Oct 06 13:23:17 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G50192.D PCB1826.M

Fri Oct 22 10:04:54 2010

GC3G

Page 2

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\1848\3G50193.D\ECD1A.CH Vial: 18  
 Acq On : 10-21-2010 02:50:22 PM Operator: toyar  
 Sample : op46259-msd Inst : GC3G  
 Misc : OP46259,g3g1848,470,,,10,1 Multiplr: 1.00  
 IntFile : events.e

Data File : C:\MSDCHEM\1\DATA\1848\3G50193.D\ECD2B.CH Vial: 18  
 Acq On : 10-21-2010 02:50:21 PM Operator: toyar  
 Sample : op46259-msd Inst : GC3G  
 Misc : OP46259,g3g1848,470,,,10,1 Multiplr: 1.00  
 IntFile : events2.e  
 Quant Time: Oct 21 15:12:44 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Thu Oct 21 15:12:41 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.18	609.9E6	473.8E6	24.340	25.693
Spiked Amount 40.000			Recovery	=	60.85%	64.23%
50) S Decachlorobiphen	9.04	9.25	503.0E6	331.5E6	21.286	24.253
Spiked Amount 40.000			Recovery	=	53.22%	60.63%
Target Compounds						
30) AR1016-A	2.68	2.63	60651929	48431217	125.673	160.650 #
31) AR1016-B	3.05	3.03	105.1E6	83558578	121.445	140.840
32) AR1016-C	3.58	3.54	238.4E6	160.5E6	119.001	130.436
33) AR1016-D	3.73	3.69	86450792	73057472	114.792	134.771
34) AR1016-E	4.20	4.21	91307134	48424243	119.179	131.210
35) AR1260-A	6.05	6.04	206.0E6	125.7E6	117.099	143.334
36) AR1260-B	6.40	6.48	226.1E6	170.2E6	121.086	142.857
37) AR1260-C	6.86	6.96	143.2E6	108.9E6	125.299	154.823
38) AR1260-D	7.26	7.30	388.1E6	239.9E6	135.553	151.455

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G50193.D PCB1826.M Fri Oct 22 10:05:01 2010 GC3G

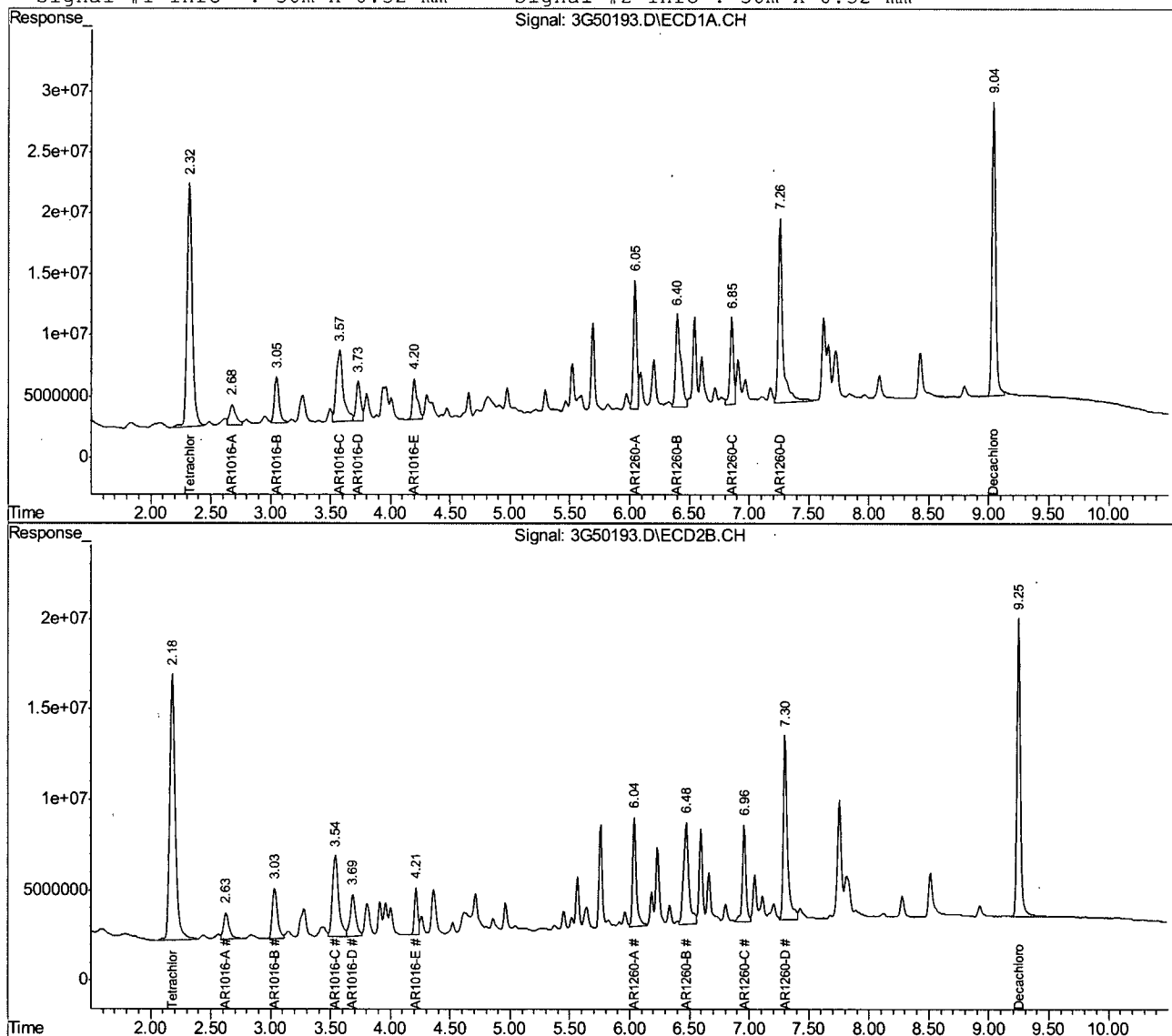
## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\1848\3G50193.D\ECD1A.CH Vial: 18  
Acq On : 10-21-2010 02:50:22 PM Operator: toyar  
Sample : op46259-msd Inst : GC3G  
Misc : OP46259,g3g1848,470,,,10,1 Multiplr: 1.00  
IntFile : events.e

Data File : C:\MSDCHEM\1\DATA\1848\3G50193.D\ECD2B.CH Vial: 18  
Acq On : 10-21-2010 02:50:21 PM Operator: toyar  
Sample : op46259-msd Inst : GC3G  
Misc : OP46259,g3g1848,470,,,10,1 Multiplr: 1.00  
IntFile : events2.e  
Quant Time: Oct 21 17:04 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Thu Oct 21 15:12:41 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93911.D\ECD1A.CH Vial: 15  
 Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93911.D\ECD2B.CH  
 Acq On : 28 Oct 2010 3:23 pm Operator: vinced  
 Sample : op46374-ms Inst : gcef  
 Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 2 12:31 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
 Title : GC/ECD- PCB  
 Last Update : Wed Oct 27 15:03:37 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	3.20	3.15	529166	691952	34.846	36.617
Spiked Amount 40.000			Recovery	=	87.11%	91.54%
51) S Decachlorobiphen	11.61	12.09	758992	1004917	44.608	47.083
Spiked Amount 40.000			Recovery	=	111.52%	117.71%
Target Compounds						
41) AR1016-A	3.71	3.82	95417	115947	226.576	235.071
42) AR1016-B	4.21	4.39	162449	210069	222.200	226.661
43) AR1016-C	4.91	5.06	318391	389143	227.721	243.946
44) AR1016-D	5.40	5.61	264184	278451	250.308	303.330
45) AR1016-E	5.72	5.95	135384	191685	232.375	253.055
46) AR1260-A	8.01	8.20	407014	320618	258.415	237.290
47) AR1260-B	8.44	8.74	292842	365530	224.563	220.482
48) AR1260-C	8.99	9.33	173958	237140	232.896	225.971
49) AR1260-D	9.47	9.73	417480	658959	235.297	305.223 #
50) AR1260-E	9.93	10.29	395449	492377	223.343	225.250

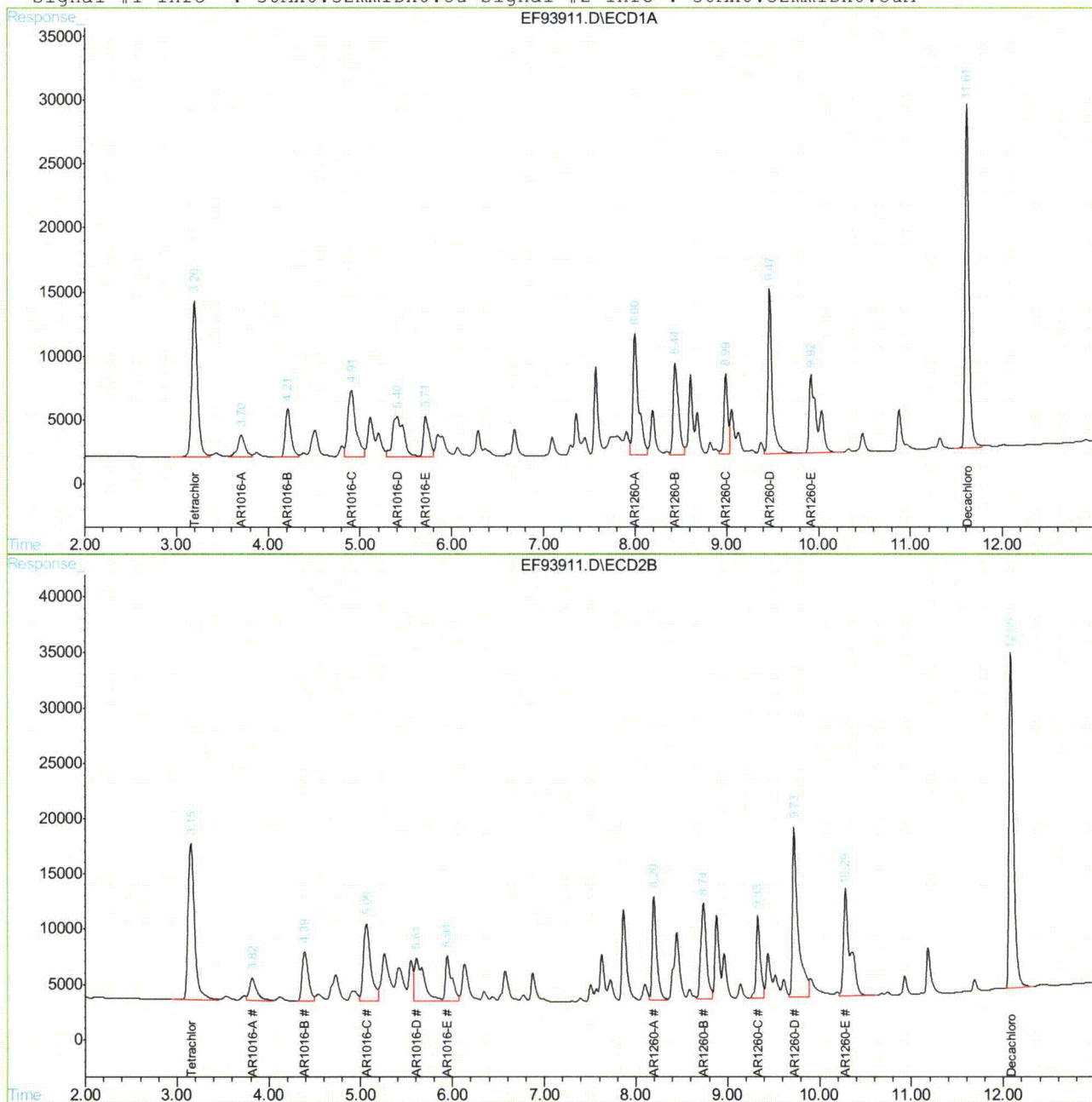
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 EF93911.D PCB4061.M Tue Nov 02 12:31:30 2010 GCEF

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93911.D\ECD1A.CH Vial: 15  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93911.D\ECD2B.CH  
Acq On : 28 Oct 2010 3:23 pm Operator: vinced  
Sample : op46374-ms Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 2 12:31 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Wed Oct 27 15:03:37 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



EF93911.D PCB4061.M

Tue Nov 02 12:31:31 2010

GCEF

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93912.D\ECD1A.CH Vial: 16  
 Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93912.D\ECD2B.CH  
 Acq On : 28 Oct 2010 3:41 pm Operator: vinned  
 Sample : op46374-msd Inst : gcef  
 Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 2 12:32 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
 Title : GC/ECD- PCB  
 Last Update : Wed Oct 27 15:03:37 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5u

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	3.20	3.15	545882	714744	35.947	37.823
Spiked Amount 40.000			Recovery	=	89.87%	94.56%
51) S Decachlorobiphen	11.61	12.09	729211	968407	42.857	45.372
Spiked Amount 40.000			Recovery	=	107.14%	113.43%
Target Compounds						
41) AR1016-A	3.71	3.82	95841	115160	227.581	233.476
42) AR1016-B	4.21	4.39	160877	208511	220.051	224.979
43) AR1016-C	4.91	5.07	307555	358268	219.971	224.592
44) AR1016-D	5.40	5.61	250723	221623	237.554	241.424
45) AR1016-E	5.72	5.95	130340	173193	223.715	228.643
46) AR1260-A	8.00	8.20	350174	304845	222.327m	225.616
47) AR1260-B	8.44	8.74	270113	347464	207.134	209.585
48) AR1260-C	8.99	9.33	164067	220594	219.653	210.204
49) AR1260-D	9.47	9.73	389435	485958	219.490	225.090
50) AR1260-E	9.93	10.29	371339	462462	209.726	211.565

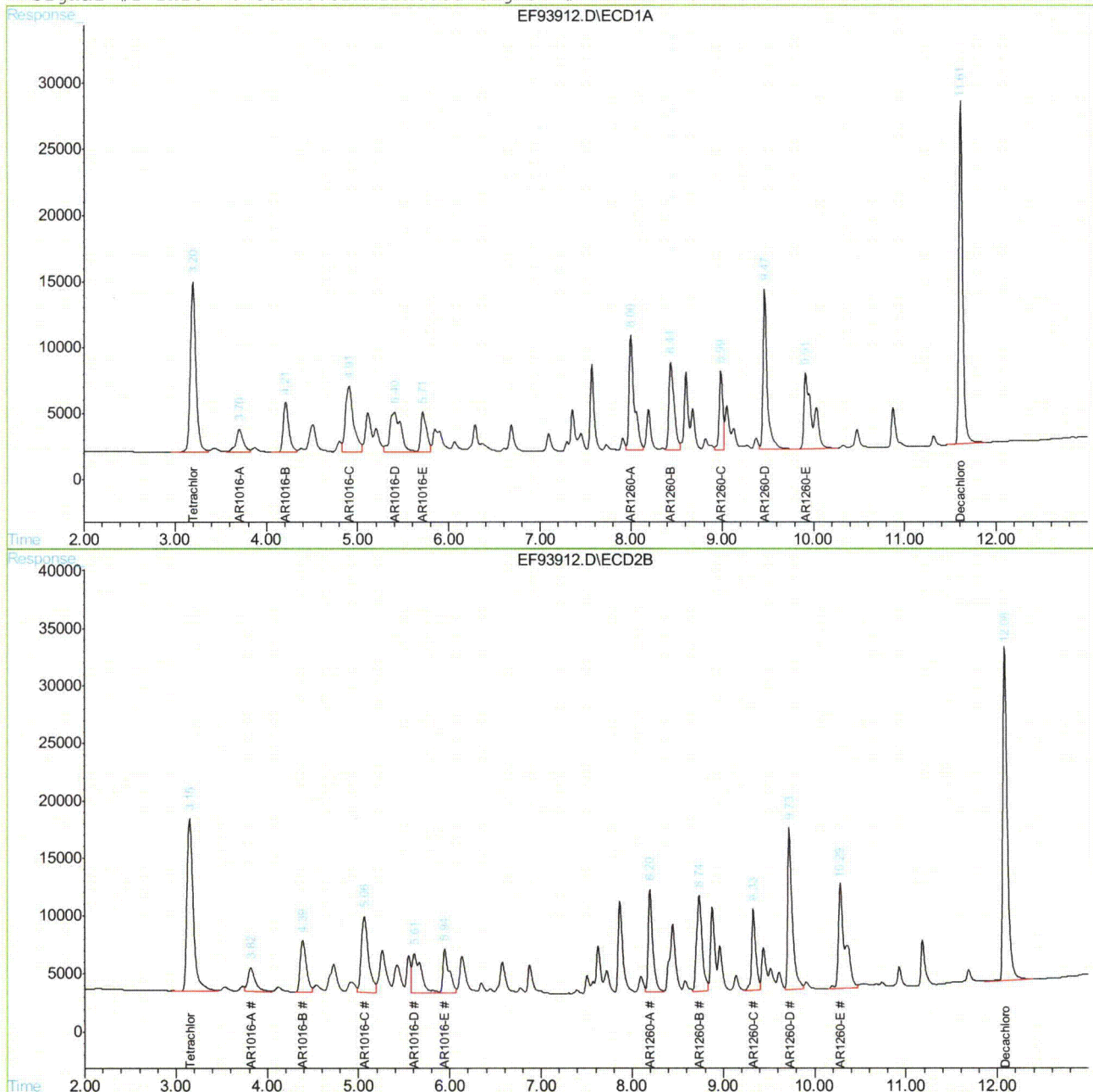
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 EF93912.D PCB4061.M Tue Nov 02 12:32:34 2010 GCEF

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93912.D\ECD1A.CH Vial: 16  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93912.D\ECD2B.CH  
Acq On : 28 Oct 2010 3:41 pm Operator: vinced  
Sample : op46374-msd Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 2 12:32 2010 Quant Results File: PCB4061.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Wed Oct 27 15:03:37 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB4061.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.5uM



EF93912.D PCB4061.M

Tue Nov 02 12:32:35 2010

GCEF

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46374-MSD      **Method:** SW846 8082  
**Lab FileID:** EF93912.D      **Analyst approved:** 11/04/10 11:23 Vincent Drago  
**Injection Time:** 10/28/10 15:41      **Supervisor approved:** 11/04/10 12:27 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-A		1	8.00	Poor instrument integration

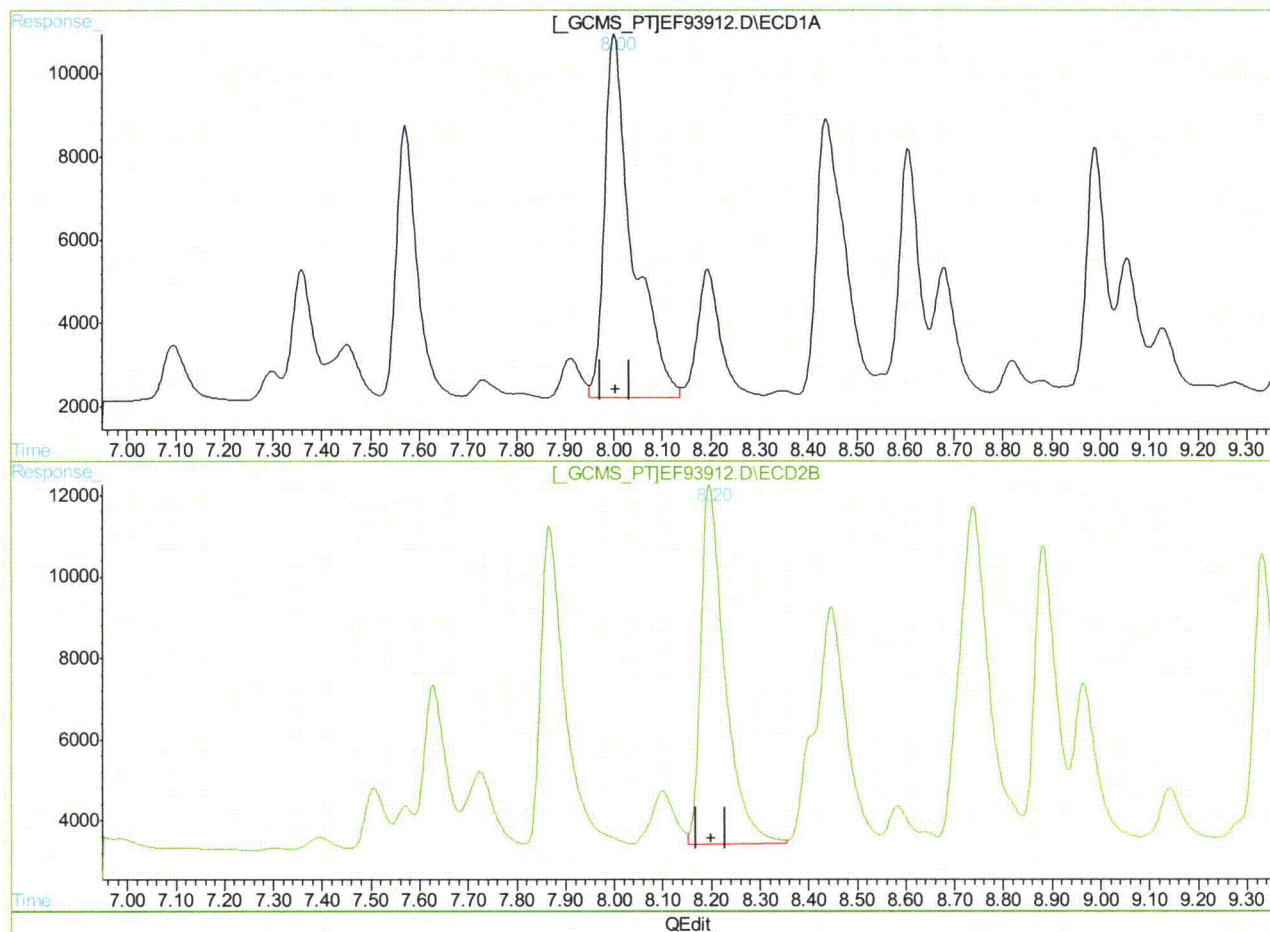
10.4.14.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF4072\EF93912.D\ECD1A.CH Vial: 16  
Signal #2 : C:\HPCHEM\1\DATA\GEF4072\EF93912.D\ECD2B.CH  
Acq On : 28 Oct 2010 3:41 pm Operator: vinced  
Sample : op46374-msd Inst : gcef  
Misc : OP46374,GEF4072,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 2 12:32 2010 Quant Results File: PCB4061.RES

Method : C:\HPCHEM\1\METHODS\PCB4061.M (Chemstation Integrator)  
Title : GC/ECD- PCB  
Last Update : Tue Nov 02 12:07:18 2010  
Response via : Multiple Level Calibration



(46) AR1260-A

8.00min 222.327PPB m

response 350174

(46) AR1260-A #2

8.20min 225.616PPB

response 304845

(+) = Expected Retention Time  
EF93912.D PCB4061.M Tue Nov 02 12:32:25 2010 GCEF

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56957.D\ECD1A.CH Vial: 1  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56957.D\ECD2B.CH  
Acq On : 9-21-10 05:23:07 PM Operator: owenm  
Sample : ddt Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 9:42 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:41:02 2010  
Response via : Initial Calibration  
DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
----------	------	------	--------	--------	-----	-----

## System Monitoring Compounds

## Target Compounds

13) B	4,4'-DDE	4.26	5.43	118.8E6	21961881	3.439	2.852
15) MA	Endrin	4.93	6.12	1538.9E6	345.1E6	49.086	50.847
16) A	4,4'-DDD	5.04	6.31	86951412	19664432	3.233	3.158
18) MA	4,4'-DDT	5.43	6.82	2434.6E6	564.5E6	102.219	105.889
19) B	Endrin Aldehyde	5.84	6.99	16982426	3829893	0.659	0.643
23) B	Endrin Ketone	6.92	8.34	52928506	11098592	1.935	1.826

(f)=RT Delta &gt; 1/2 Window

1G56957.D 1PST2096.M

Wed Sep 22 09:43:01 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56957.D\ECD1A.CH Vial: 1  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56957.D\ECD2B.CH  
Acq On : 9-21-10 05:23:07 PM Operator: owenm  
Sample : ddt Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 9:42 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:41:02 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

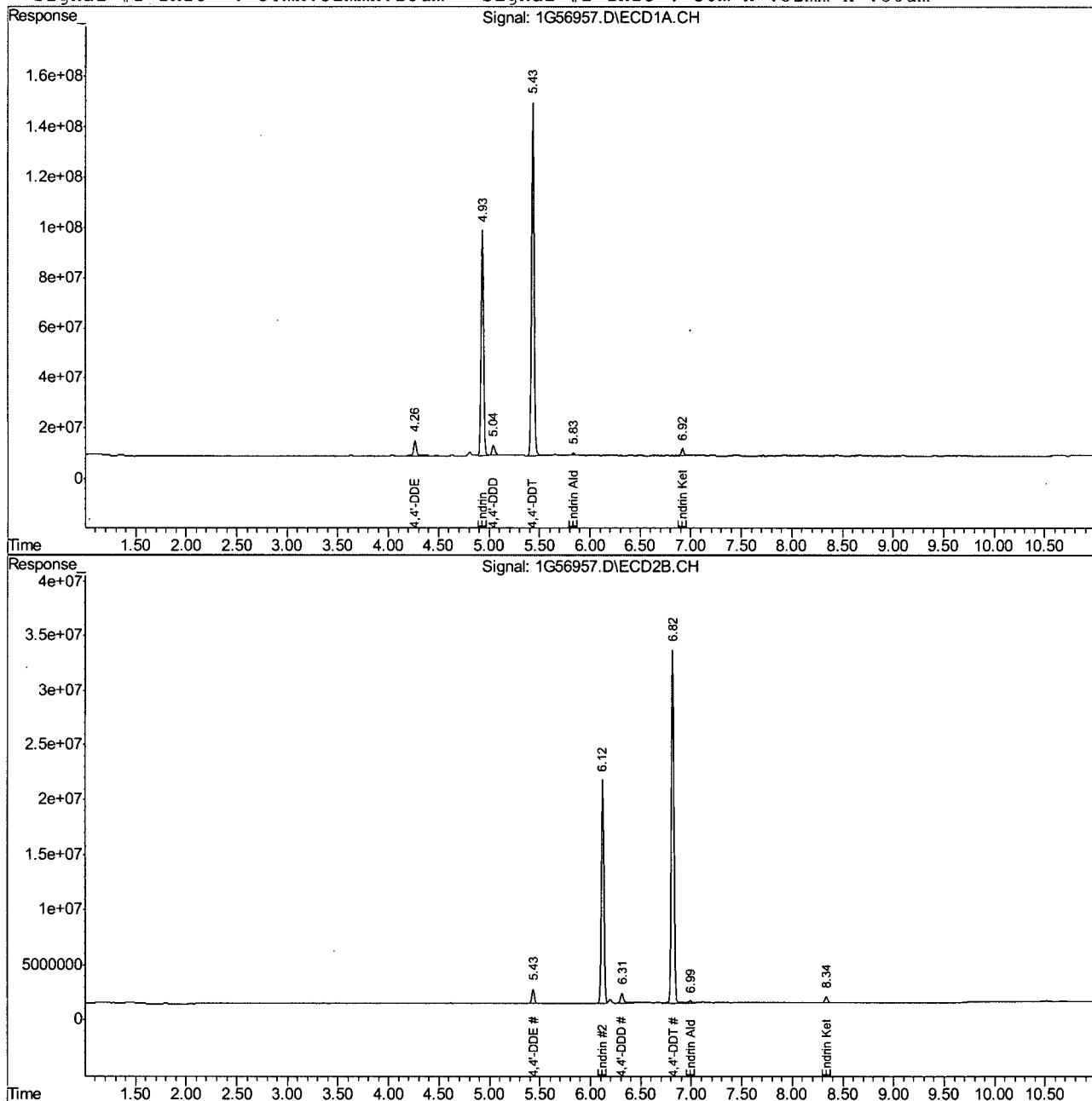
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Phase: RTX-CLP I

Signal #2 Info : 30m x .32mm x .50um



1G56957.D 1PST2096.M

Wed Sep 22 09:43:01 2010

RPT1

Page 2

10.5.1 10

Owen McKenna  
11/01/10 11:04

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58164.D\ECD1A.CH Vial: 22  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58164.D\ECD2B.CH  
Acq On : 10-26-10 04:49:20 PM Operator: owenm  
Sample : ddt Inst : GC1G  
Misc : op46336,glg2122,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 17:19 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Initial Calibration  
DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
----------	------	------	--------	--------	-----	-----

## System Monitoring Compounds

## Target Compounds

13) B	4,4'-DDE	4.26	5.37	112.7E6	22644716	3.263	2.941
15) MA	Endrin	4.92	6.05	3921.7E6	832.5E6	125.089	122.670
16) A	4,4'-DDD	5.04	6.25	49864187	9379187	1.854	1.506
18) MA	4,4'-DDT	5.42	6.75	2813.7E6	618.0E6	118.140	115.922
23) B	Endrin Ketone	6.90	8.25	34677293	6476448	1.268m	1.065m

(f)=RT Delta &gt; 1/2 Window

1G58164.D 1PST2096.M

Fri Oct 29 17:19:46 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58164.D\ECD1A.CH Vial: 22  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58164.D\ECD2B.CH  
Acq On : 10-26-10 04:49:20 PM Operator: owenm  
Sample : ddt Inst : GC1G  
Misc : op46336,g1g2122,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 17:19 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

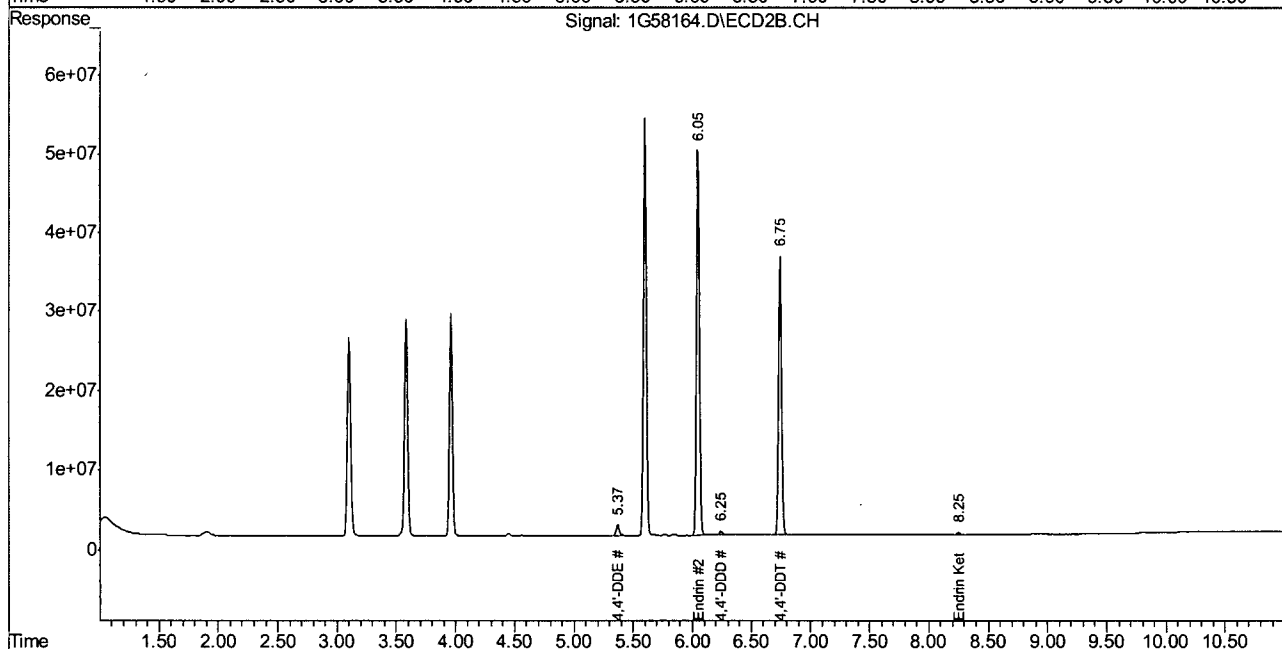
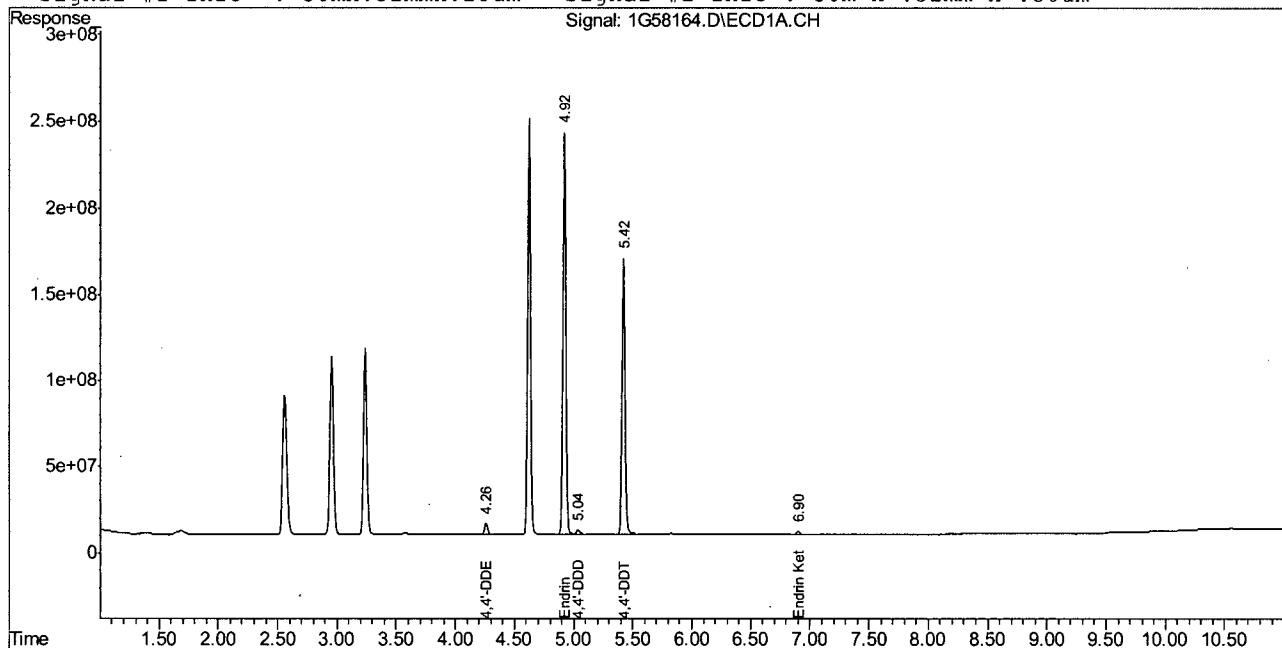
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G58164.D 1PST2096.M

Fri Oct 29 17:19:46 2010

RPT1

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** G1G2122-DDT      **Method:** SW846 8081A  
**Lab FileID:** 1G58164.D      **Analyst approved:** 10/29/10 17:23 Owen McKenna  
**Injection Time:** 10/26/10 16:49      **Supervisor approved:** 11/01/10 11:04 Owen McKenna

Parameter	CAS	Sig#	R.T. (min.)	Reason
Endrin ketone	53494-70-5	1	6.90	Poorly defined baseline
Endrin ketone	53494-70-5	2	8.25	Poorly defined baseline

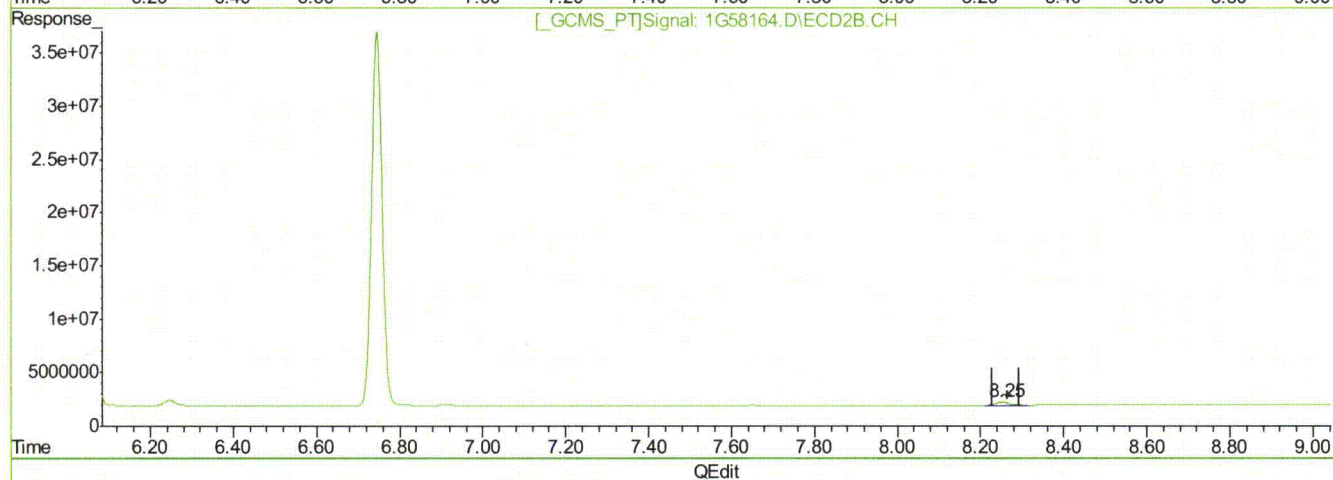
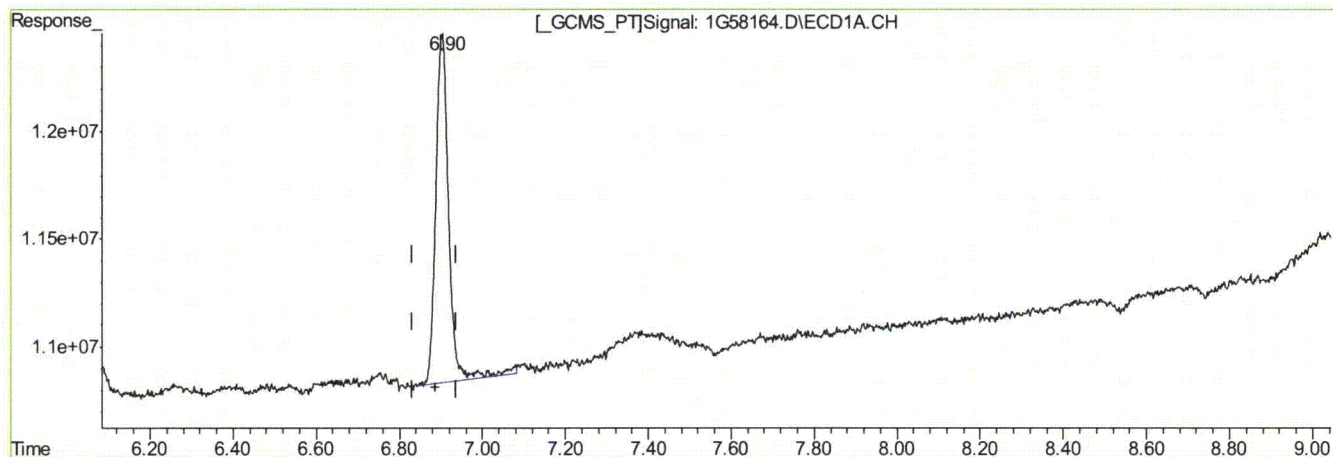
10.5.2.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58164.D\ECD1A.CH Vial: 22  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58164.D\ECD2B.CH  
Acq On : 10-26-10 04:49:20 PM Operator: owenm  
Sample : ddt Inst : GC1G  
Misc : op46336,glg2122,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 26 17:01 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration



(23) Endrin Ketone (B)

6.90min 1.268PPB m

response 34677293

(23) Endrin Ketone #2 (B)

8.25min 1.065PPB m

response 6476448

(+) = Expected Retention Time

1G58164.D 1PST2096.M

Fri Oct 29 17:19:32 2010

RPT1

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
Data File : 4g590.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 21 Oct 2010 3:44 pm  
Operator : owenm  
Sample : ddt (Sig #1); op46271-bs1 (Sig #2)  
Misc : op46271,g4g19,17.0,,,10,1  
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 22 11:39:18 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Fri Oct 22 09:47:34 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----							
System Monitoring Compounds							
Target Compounds							
13)	B 4,4'-DDE	4.320	5.526	2662533	2040656	0.713	0.843
15)	MA Endrin	4.995	6.230	407.2E6	313.2E6	108.829	120.230
16)	A 4,4'-DDD	5.104	6.413	2766329	1817939	0.859	0.818
18)	MA 4,4'-DDT	5.494	6.921	340.2E6	257.1E6	101.277	109.710
19)	B Endrin Al...	5.905	0.000	1838478	0	0.578	N.D. #
23)	B Endrin Ke...	6.989	8.458	4215107	2185960	1.008	0.723 #
26)	L8 Toxaphene(C)	5.494	0.000	340.2E6	0	2997.673	N.D. d#
27)	L8 Toxaphene(D)	5.724f	0.000	11234627	0	96.417	N.D. d#
-----							

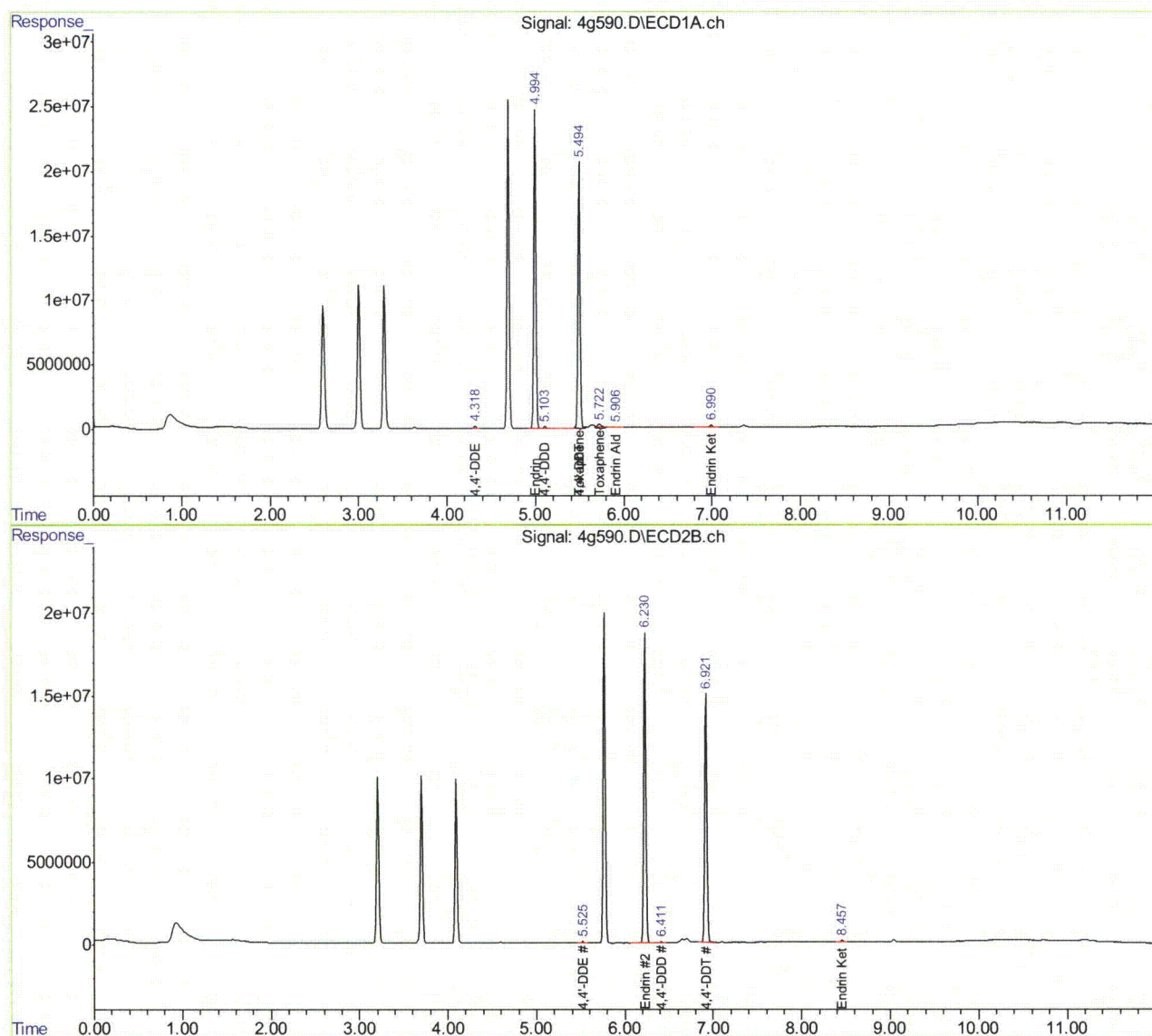
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
Data File : 4g590.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 21 Oct 2010 3:44 pm  
Operator : owenm  
Sample : ddt (Sig #1); op46271-bs1 (Sig #2)  
Misc : op46271,g4g19,17.0,,,10,1  
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 22 11:39:18 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Fri Oct 22 09:47:34 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g24\  
Data File : 4g771.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 27 Oct 2010 9:39 am  
Operator : owenm  
Sample : ddt  
Misc : op46279,g4g24,17.0,,,10,1  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 27 11:14:34 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Fri Oct 22 09:47:34 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----							
System Monitoring Compounds							
Target Compounds							
13) B	4,4'-DDE	4.321	5.510	3765208	2400761	1.009	0.991
15) MA	Endrin	4.993	6.211f	411.5E6	308.2E6	110.000	118.316
16) A	4,4'-DDD	5.103	6.396f	5298692	3083420	1.646	1.387
18) MA	4,4'-DDT	5.492	6.902f	341.7E6	250.7E6	101.695	106.999
23) B	Endrin Ke...	6.984	8.435f	3601198	2377966	0.861	0.787
-----							

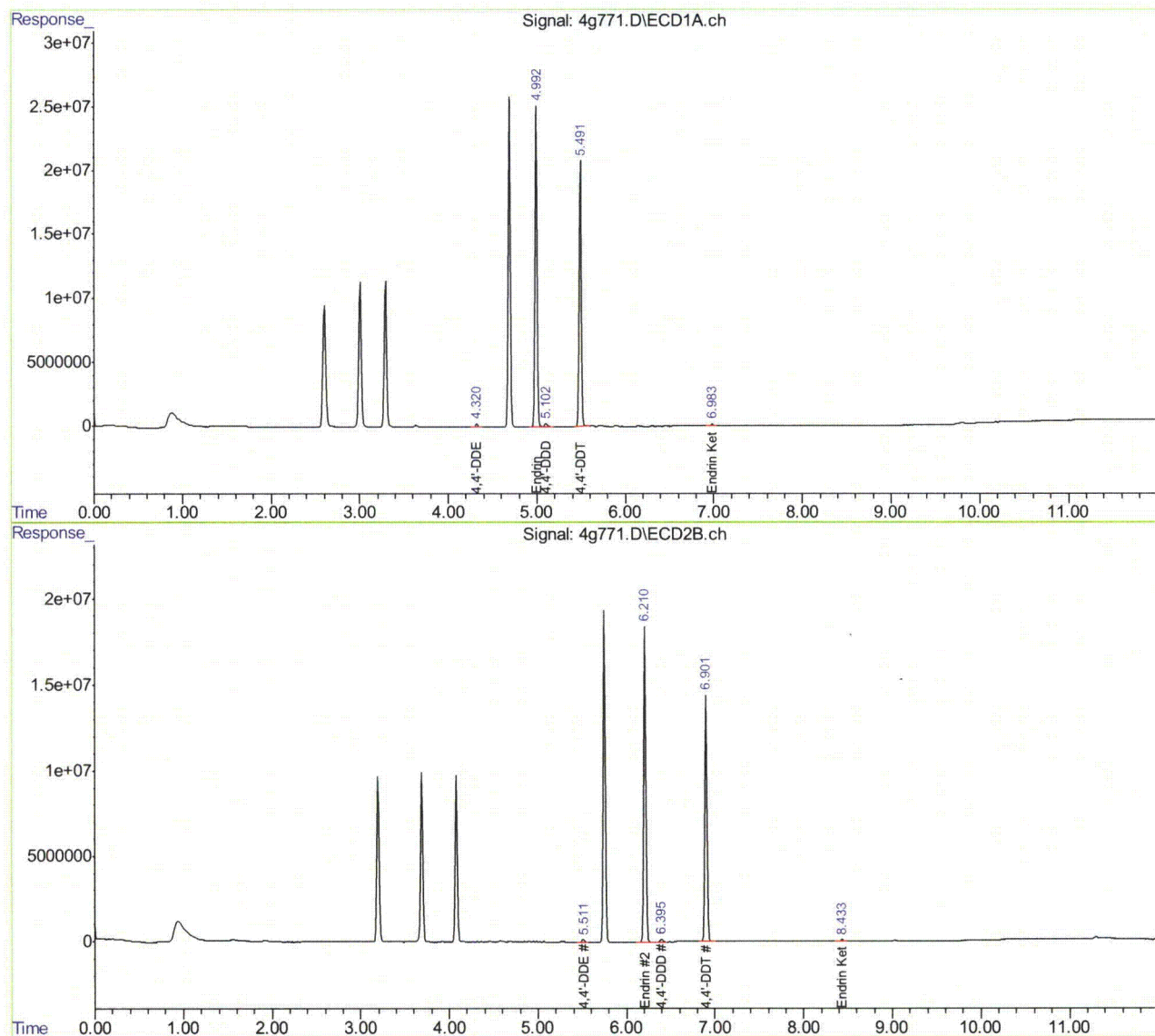
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g24\  
Data File : 4g771.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 27 Oct 2010 9:39 am  
Operator : owenm  
Sample : ddt  
Misc : op46279,g4g24,17.0,,,10,1  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 27 11:14:34 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Fri Oct 22 09:47:34 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g27\  
Data File : 4g917.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 1 Nov 2010 10:11 am  
Operator : owenm  
Sample : ddt  
Misc : op46354,g4g27,17.1,,,10,1  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 01 13:44:09 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Mon Nov 01 09:27:25 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
Target Compounds						
13) B 4,4'-DDE	4.328f	5.497	4053244	2505863	1.086	1.035
15) MA Endrin	5.001f	6.197	395.6E6	287.6E6	105.736	110.413
16) A 4,4'-DDD	5.111f	6.383	7399191	4607483	2.298	2.073
18) MA 4,4'-DDT	5.500f	6.888	316.1E6	225.8E6	94.098	96.334
23) B Endrin Ke...	6.991f	8.420	3870540	2572009	0.925	0.851
-----						

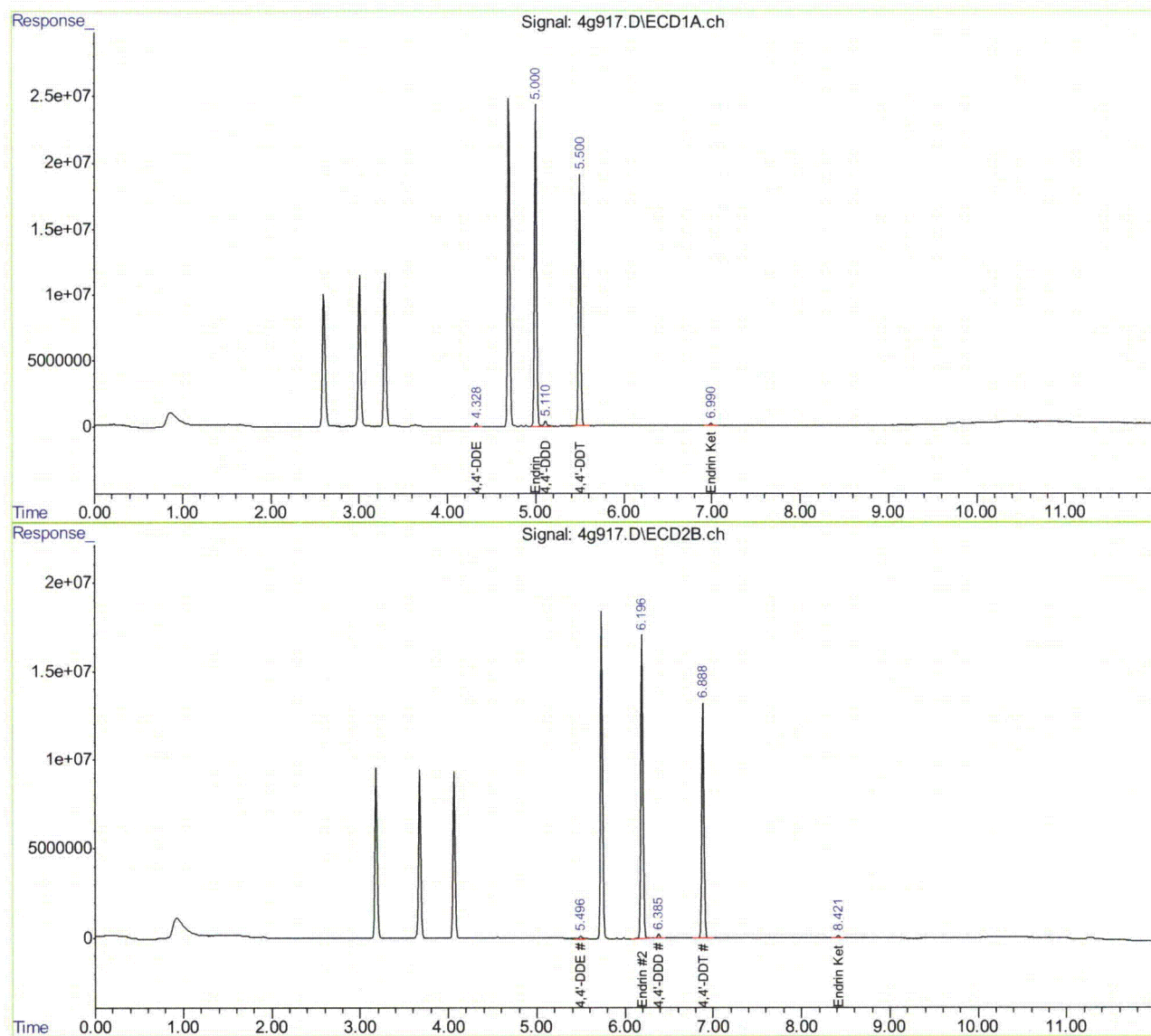
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g27\  
Data File : 4g917.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 1 Nov 2010 10:11 am  
Operator : owenm  
Sample : ddt  
Misc : op46354,g4g27,17.1,,,10,1  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 01 13:44:09 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Mon Nov 01 09:27:25 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g27\  
Data File : 4g939.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 1 Nov 2010 4:57 pm  
Operator : owenm  
Sample : ddt  
Misc : op46373,g4g27,17.1,,,10,1  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 03 10:12:33 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Tue Nov 02 16:34:27 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
Target Compounds						
13) B 4,4'-DDE	4.311f	5.492	3927297	2821938	1.052	1.165
15) MA Endrin	4.983f	6.190	406.9E6	306.5E6	108.759	117.676
16) A 4,4'-DDD	5.094f	6.376	6555688	4240108	2.036	1.908
18) MA 4,4'-DDT	5.483f	6.882	327.4E6	244.7E6	97.450	104.425
23) B Endrin Ke...	6.973	8.412	4165322	3610102	0.996	1.194
-----						

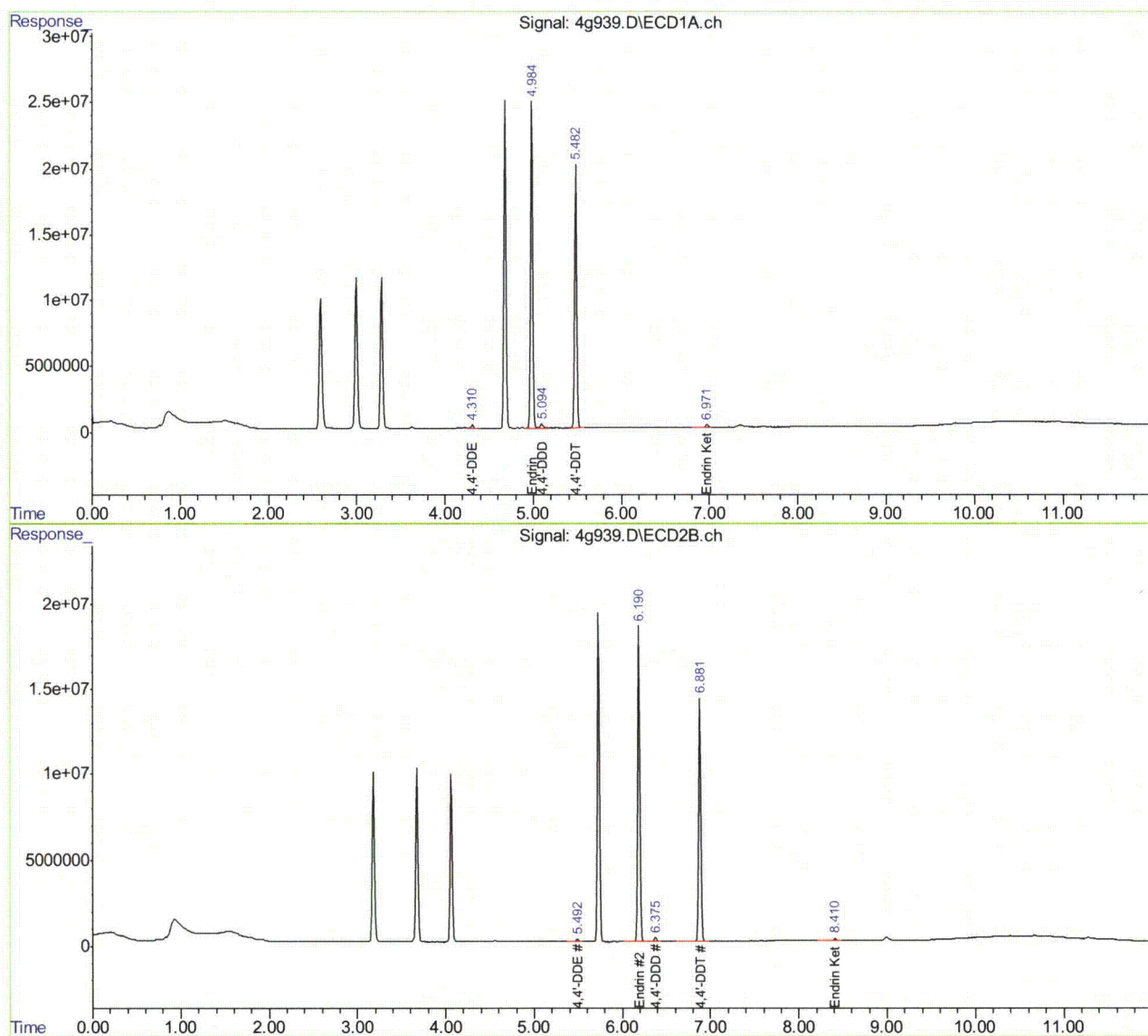
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g27\  
Data File : 4g939.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 1 Nov 2010 4:57 pm  
Operator : owenm  
Sample : ddt  
Misc : op46373,g4g27,17.1,,,10,1  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 03 10:12:33 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Tue Nov 02 16:34:27 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g29\  
Data File : 4g1014.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 3 Nov 2010 9:48 am  
Operator : owenm  
Sample : ddt  
Misc : op46474,g4g29,17.1,,,10,1  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 03 13:36:34 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Tue Nov 02 16:34:27 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
Target Compounds						
13) B 4,4'-DDE	4.321f	5.484	4653121	2855093	1.246	1.179
15) MA Endrin	4.992f	6.181	399.2E6	292.7E6	106.710	112.369
16) A 4,4'-DDD	5.103f	6.368	6489959	3883975	2.016	1.748
18) MA 4,4'-DDT	5.491f	6.872	327.6E6	235.0E6	97.505	100.262
23) B Endrin Ke...	6.980f	8.401	3834200	2574744	0.917	0.852
-----						

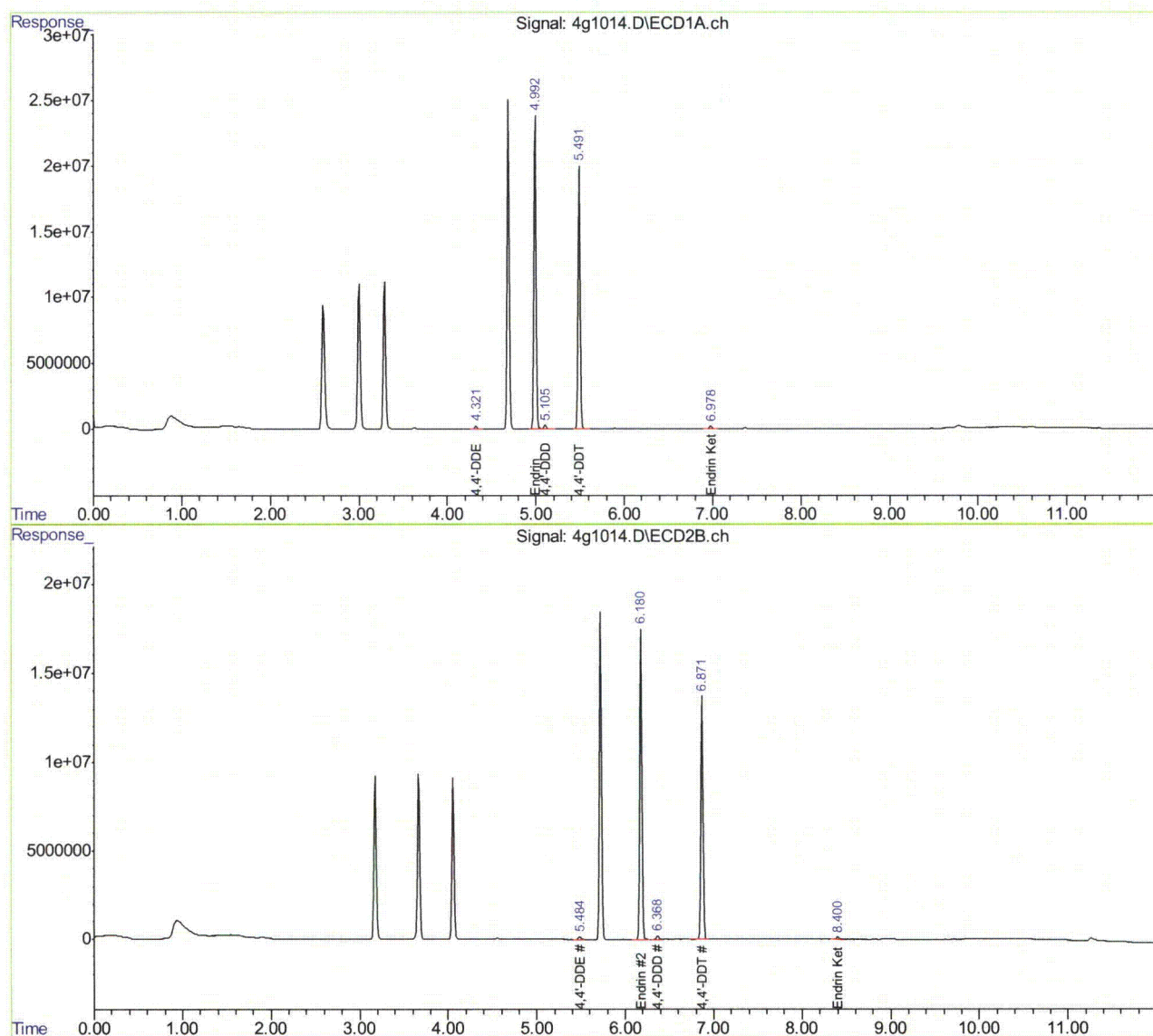
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g29\  
Data File : 4g1014.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 3 Nov 2010 9:48 am  
Operator : owenm  
Sample : ddt  
Misc : op46474,g4g29,17.1,,,10,1  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Nov 03 13:36:34 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4pst19.M  
Quant Title : PEST/PCB  
QLast Update : Tue Nov 02 16:34:27 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II  
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



Cheng-Hwan Ao  
09/24/10 12:21

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56959.D\ECD1A.CH Vial: 3  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56959.D\ECD2B.CH  
 Acq On : 9-21-10 05:53:07 PM Operator: owenm  
 Sample : ic2096-1 Inst : GC1G  
 Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 22 8:35 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Sep 22 08:31:33 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.97	2.32	20795735	6877672	0.957m	0.921
Spiked Amount	40.000	Range	30 - 150	Recovery	=	2.39%# 2.30%#
34) SA Decachlorobiphen	8.68	10.33	34682850	6267715	1.148m	1.210m
Spiked Amount	40.000	Range	30 - 150	Recovery	=	2.87%# 3.02%#
Target Compounds						
2) Hexachlorobenzen	2.22	2.70	50593192	9911957	1.189	1.080
3) A alpha-BHC	2.33	2.80	36841034	7556987	0.854	0.701
4) MA gamma-BHC	2.56	3.14	33660657	7591175	0.875	0.778
5) MA Heptachlor	2.96	3.63	38059966	8501760	0.924	0.886
6) B beta-BHC	2.62	3.21	17106853	4575130	1.091	1.037
7) B delta-BHC	2.77	3.53	24668299	5090091	0.813	0.699
8) MB Aldrin	3.24	4.01	37088405	7355272	0.946	0.792
9) B Heptachlor Epoxi	3.87	4.73	35258692	7572123	0.981	0.882
10) B gamma-Chlordane	4.02	4.99	36127368	7604566	0.989	0.868
11) B alpha-Chlordane	4.17	5.19	33728461	7802492	0.960	0.925
12) A Endosulfan I	4.34	5.27	36580650	7340627	1.055	0.929
13) B 4,4'-DDE	4.27	5.43	34519459	6871502	0.960	0.801
14) MA Dieldrin	4.64	5.67	35538582	7254110	0.948	0.844
15) MA Endrin	4.94	6.13	31427364	6560822	0.975	0.909
16) A 4,4'-DDD	5.05	6.32	26821510	5782045	0.947	0.847
17) B Endosulfan II	5.24	6.45	31811076	6610744	1.030	0.924
18) MA 4,4'-DDT	5.44	6.82	22884698	4608290	0.886m	0.768
19) B Endrin Aldehyde	5.84	6.99	26886339	6428057	1.038	1.057
20) B Endosulfan Sulfa	6.50	7.45	21534248	4625431	1.036	0.958
21) A Methoxychlor	6.19	7.99	14252700	3023100	1.121	1.007
22) Mirex	6.31	8.28	25176836	6155676	1.148	1.176
23) B Endrin Ketone	6.92	8.34	27503138	6011198	0.979	0.935

(f)=RT Delta &gt; 1/2 Window

1G56959.D 1PST2096.M

Wed Sep 22 08:36:06 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56959.D\ECD1A.CH Vial: 3  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56959.D\ECD2B.CH  
Acq On : 9-21-10 05:53:07 PM Operator: owenm  
Sample : ic2096-1 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:35 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:31:33 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

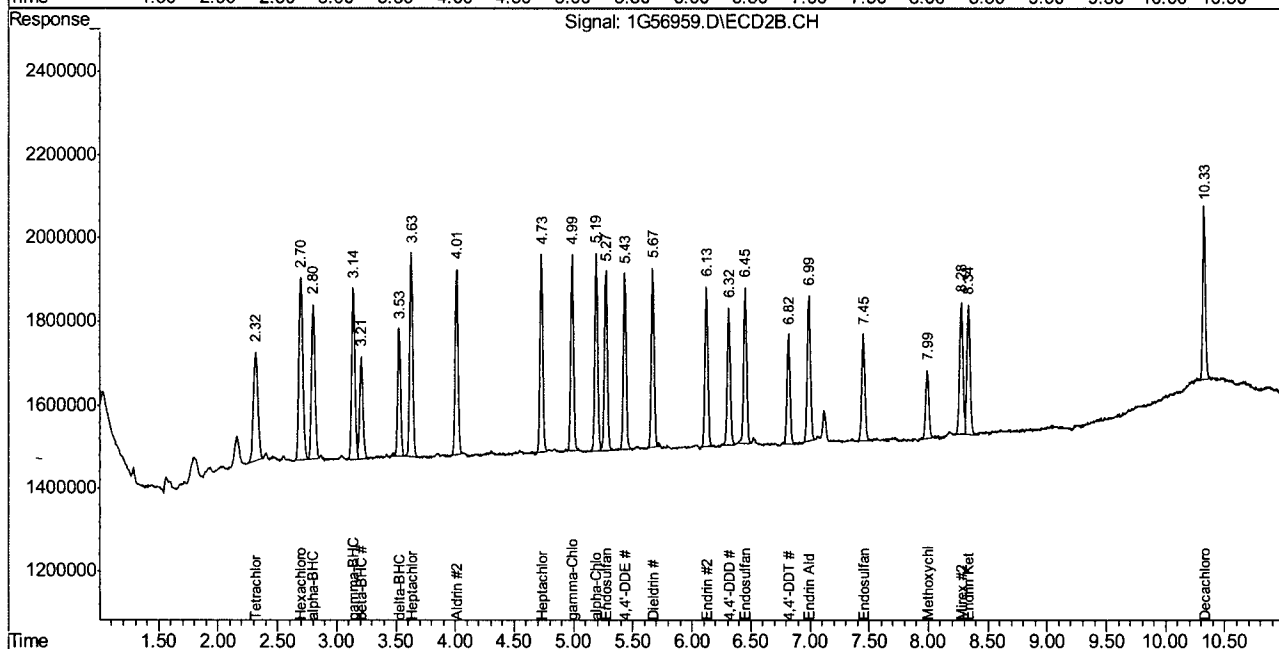
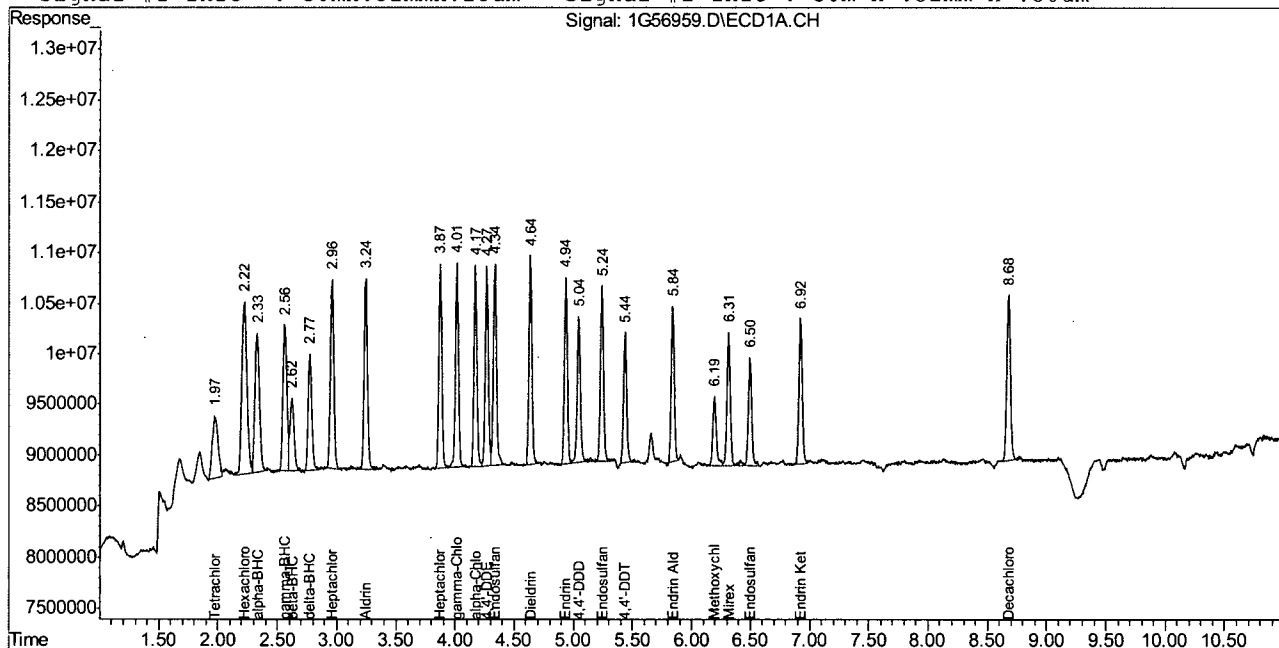
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G56959.D 1PST2096.M Wed Sep 22 08:36:07 2010

RPT1

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** G1G2096-IC2096      **Method:** SW846 8081A  
**Lab FileID:** 1G56959.D      **Analyst approved:** 09/22/10 08:46 Owen McKenna  
**Injection Time:** 09/21/10 17:53      **Supervisor approved:** 09/24/10 12:21 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.97	Baseline ripple
4,4' -DDT	50-29-3	1	5.44	Baseline ripple
Decachlorobiphenyl	2051-24-3	1	8.68	Baseline ripple
Decachlorobiphenyl	2051-24-3	2	10.33	Baseline ripple

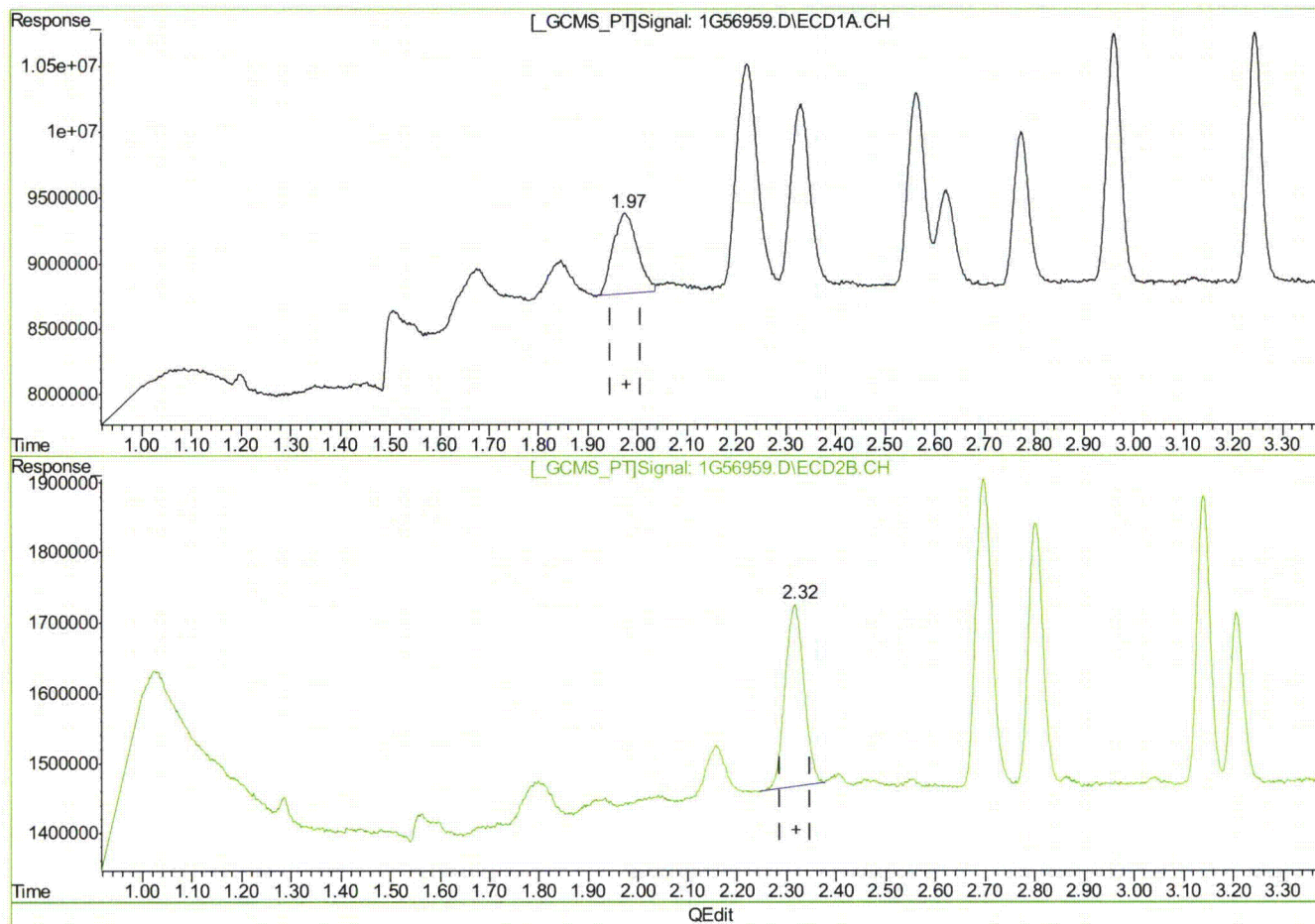
10.6.1.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56959.D\ECD1A.CH Vial: 3  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56959.D\ECD2B.CH  
Acq On : 9-21-10 05:53:07 PM Operator: owenm  
Sample : ic2096-1 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:35 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:31:33 2010  
Response via : Multiple Level Calibration



(1) Tetrachloro-m-xylene (SAB)

1.97min 0.957PPB m

response 20795735

(1) Tetrachloro-m-xylene #2 (SAB)

2.32min 0.921PPB

response 6877672

(+) = Expected Retention Time

1G56959.D 1PST2096.M

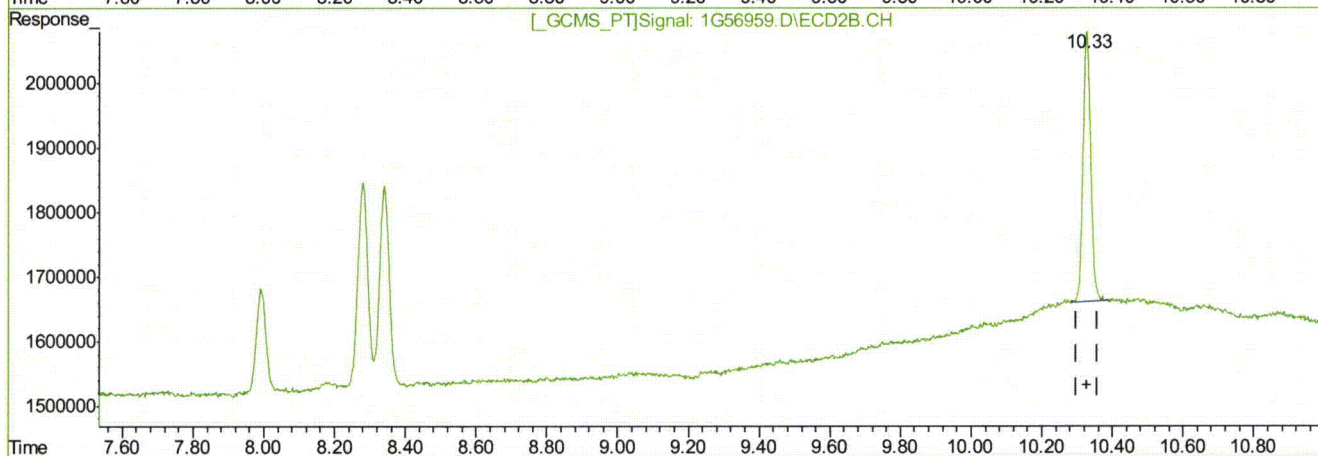
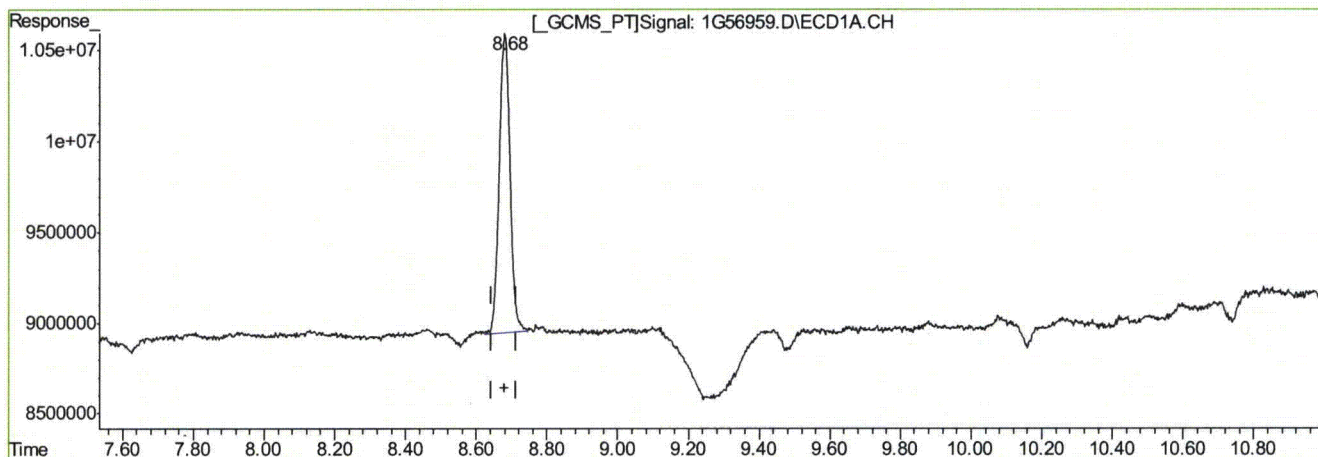
Wed Sep 22 08:35:16 2010

RPT1

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56959.D\ECD1A.CH Vial: 3  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56959.D\ECD2B.CH  
Acq On : 9-21-10 05:53:07 PM Operator: owenm  
Sample : ic2096-1 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:35 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:31:33 2010  
Response via : Multiple Level Calibration



QEdit

(34) Decachlorobiphenyl (SA)

8.68min 1.148PPB m

response 34682850

(34) Decachlorobiphenyl #2 (SA)

10.33min 1.210PPB m

response 6267715

(+) = Expected Retention Time

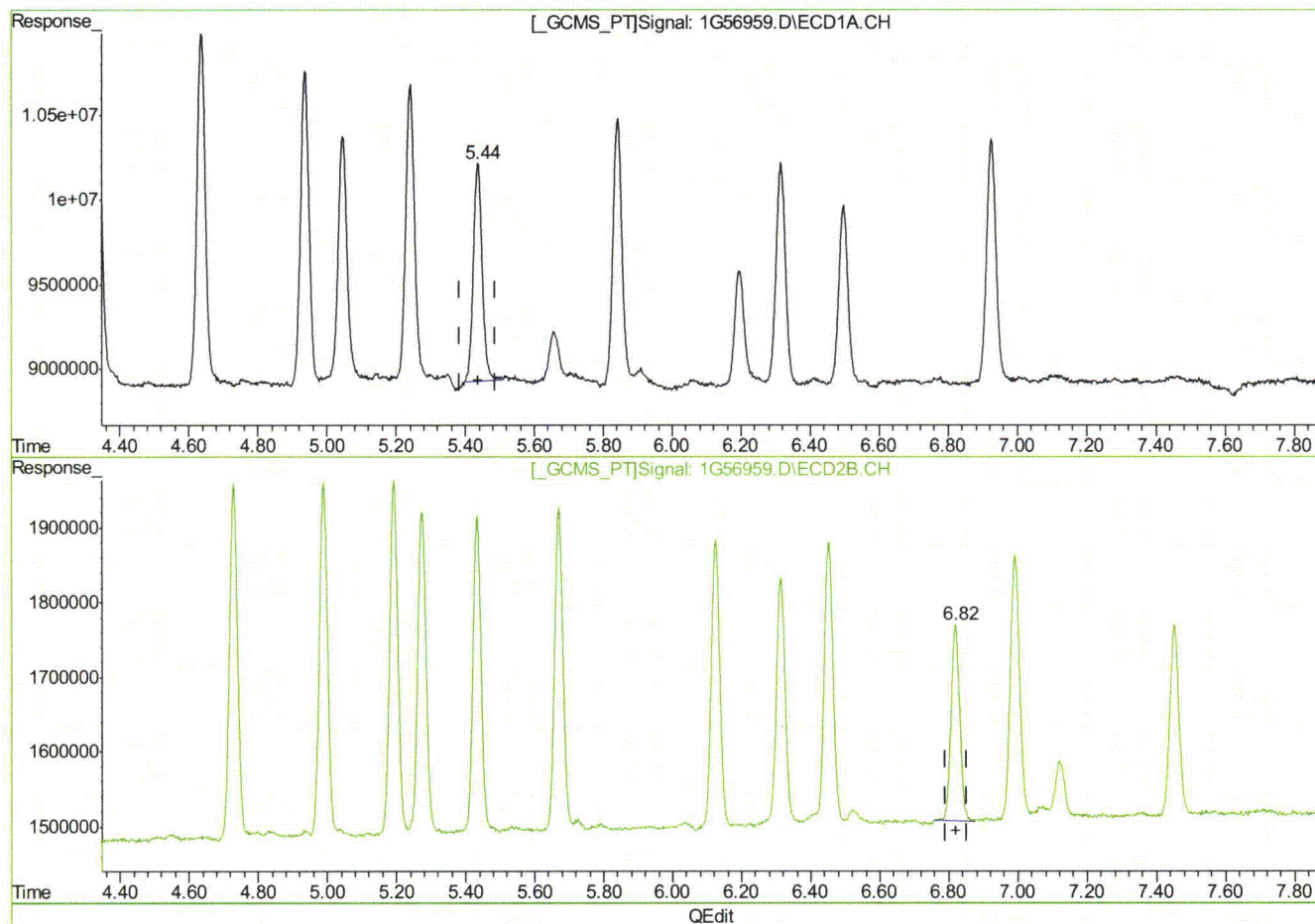
1G56959.D 1PST2096.M Wed Sep 22 08:35:45 2010

RPT1

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56959.D\ECD1A.CH Vial: 3  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56959.D\ECD2B.CH  
Acq On : 9-21-10 05:53:07 PM Operator: owenm  
Sample : ic2096-1 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:35 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:31:33 2010  
Response via : Multiple Level Calibration



(18) 4,4'-DDT (MA)

5.44min 0.886PPB m

response 22884698

(18) 4,4'-DDT #2 (MA)

6.82min 0.768PPB

response 4608290

(+) = Expected Retention Time

1G56959.D 1PST2096.M

Wed Sep 22 08:35:51 2010

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56960.D\ECD1A.CH Vial: 4  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56960.D\ECD2B.CH  
 Acq On : 9-21-10 06:08:05 PM Operator: owenm  
 Sample : ic2096-2 Inst : GC1G  
 Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 22 8:34 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Sep 22 08:31:33 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.97	2.32	45735840	14182048	2.105	1.898
Spiked Amount	40.000	Range	30 - 150	Recovery	=	5.26%# 4.75%#
34) SA Decachlorobiphen	8.68	10.33	66888660	11945319	2.214	2.307
Spiked Amount	40.000	Range	30 - 150	Recovery	=	5.53%# 5.77%#
Target Compounds						
2) Hexachlorobenzen	2.22	2.70	96787840	19745065	2.275	2.152
3) A alpha-BHC	2.33	2.80	74869521	16317108	1.737	1.513
4) MA gamma-BHC	2.56	3.14	68524810	15731474	1.782	1.612
5) MA Heptachlor	2.96	3.63	76623008	17313880	1.861	1.805
6) B beta-BHC	2.62	3.21	34624524	9191638	2.208	2.084
7) B delta-BHC	2.77	3.53	50230820	10717032	1.655	1.471
8) MB Aldrin	3.25	4.01	72201701	15437841	1.842	1.662
9) B Heptachlor Epoxi	3.88	4.73	69243389	15448464	1.926	1.799
10) B gamma-Chlordane	4.02	4.99	69688048	15702967	1.908	1.793
11) B alpha-Chlordane	4.17	5.19	67610860	15747942	1.924	1.867
12) A Endosulfan I	4.34	5.28	71405229	14663672	2.060	1.857
13) B 4,4'-DDE	4.27	5.44	67772480	14152259	1.885	1.650
14) MA Dieldrin	4.64	5.67	70591102	15000848	1.883	1.746
15) MA Endrin	4.94	6.13	61603025	13144451	1.911	1.821
16) A 4,4'-DDD	5.05	6.32	51822908	11685581	1.829	1.711
17) B Endosulfan II	5.24	6.45	60457481	13251203	1.957	1.851
18) MA 4,4'-DDT	5.44	6.82	43533088	9610596	1.686	1.601
19) B Endrin Aldehyde	5.84	6.99	53682950	11894240	2.072	1.956
20) B Endosulfan Sulfa	6.50	7.45	37728626	9043364	1.815	1.873
21) A Methoxychlor	6.20	7.99	26293076	6067603	2.067	2.020
22) Mirex	6.32	8.28	49073551	12140697	2.237	2.318
23) B Endrin Ketone	6.92	8.34	53751278	11807558	1.914	1.837

(f)=RT Delta &gt; 1/2 Window

1G56960.D 1PST2096.M

Wed Sep 22 08:34:48 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56960.D\ECD1A.CH Vial: 4  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56960.D\ECD2B.CH  
Acq On : 9-21-10 06:08:05 PM Operator: owenm  
Sample : ic2096-2 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:34 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:31:33 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

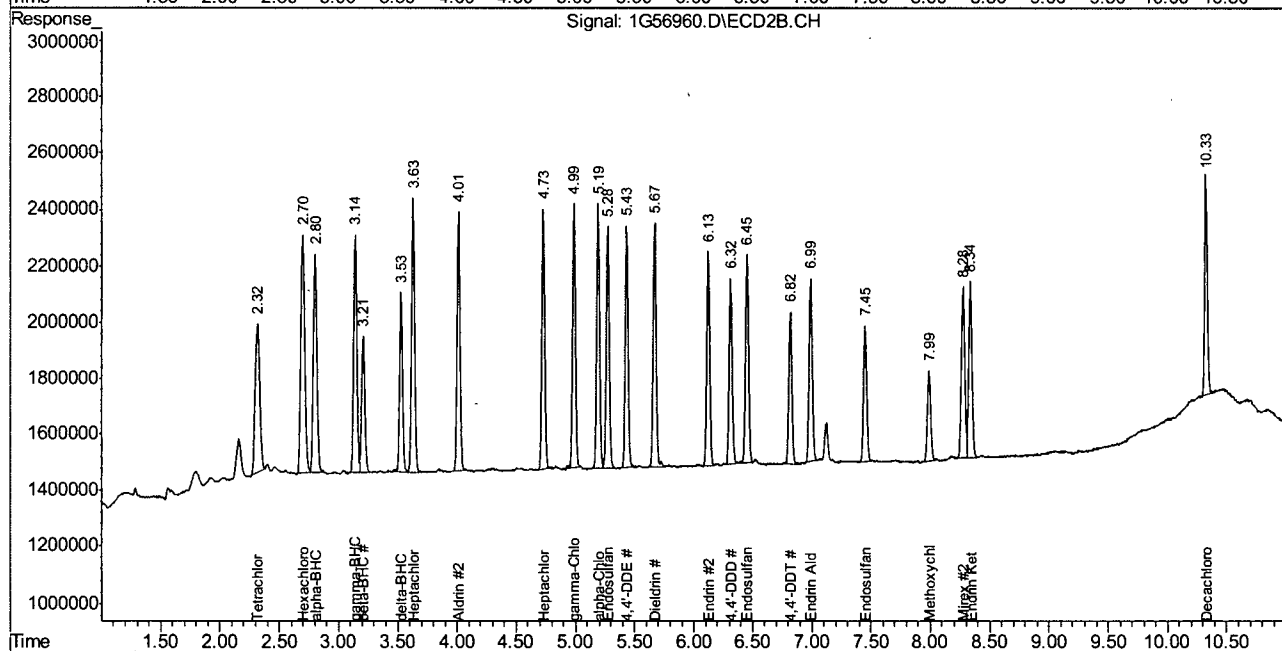
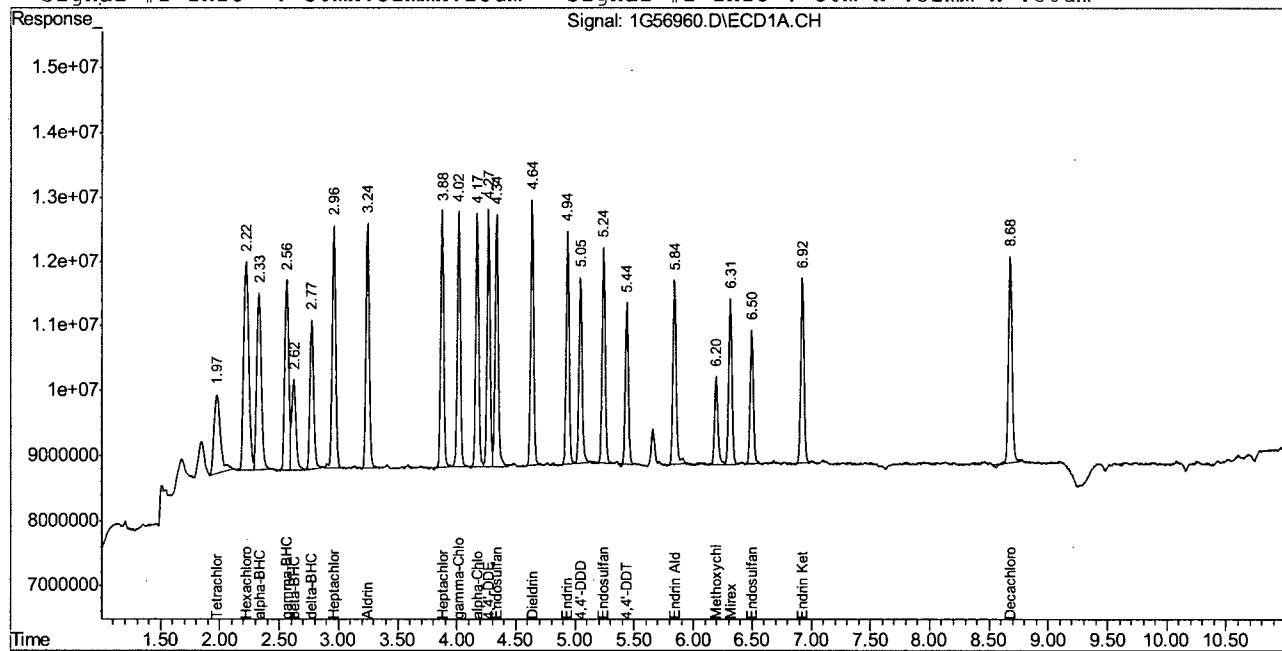
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G56960.D 1PST2096.M Wed Sep 22 08:34:49 2010 RPT1

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56961.D\ECD1A.CH Vial: 5  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56961.D\ECD2B.CH  
 Acq On : 9-21-10 06:23:03 PM Operator: owenw  
 Sample : ic2096-5 Inst : GC1G  
 Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 22 8:33 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Sep 22 08:31:33 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.98	2.32	114.3E6	35089219	5.262m	4.697m
Spiked Amount	40.000	Range	30 - 150	Recovery =	13.15%#	11.74%#
34) SA Decachlorobiphen	8.68	10.33	152.5E6	27367838	5.048	5.285
Spiked Amount	40.000	Range	30 - 150	Recovery =	12.62%#	13.21%#
Target Compounds						
2) Hexachlorobenzen	2.22	2.70	218.6E6	45091392	5.138	4.914
3) A alpha-BHC	2.33	2.80	180.1E6	40479090	4.178	3.753
4) MA gamma-BHC	2.56	3.14	164.2E6	38423508	4.270	3.938
5) MA Heptachlor	2.96	3.63	182.9E6	40236926	4.442	4.194
6) B beta-BHC	2.62	3.21	77661414	21415491	4.952	4.854
7) B delta-BHC	2.78	3.53	121.8E6	26538062	4.013	3.642
8) MB Aldrin	3.25	4.02	172.2E6	36947766	4.395	3.977
9) B Heptachlor Epoxi	3.88	4.73	163.8E6	36589980	4.557	4.260
10) B gamma-Chlordane	4.02	4.99	161.2E6	37106109	4.415	4.237
11) B alpha-Chlordane	4.17	5.19	157.8E6	36543990	4.490	4.331
12) A Endosulfan I	4.34	5.28	159.3E6	34009414	4.597	4.306
13) B 4,4'-DDE	4.27	5.44	157.8E6	33904841	4.389	3.952
14) MA Dieldrin	4.64	5.67	166.6E6	35338195	4.444	4.114
15) MA Endrin	4.94	6.13	147.1E6	30783394	4.563	4.265
16) A 4,4'-DDD	5.05	6.32	123.0E6	27587430	4.342	4.040
17) B Endosulfan II	5.24	6.46	142.7E6	30850395	4.618	4.310
18) MA 4,4'-DDT	5.44	6.82	109.1E6	23560745	4.225	3.926
19) B Endrin Aldehyde	5.84	6.99	120.9E6	27225397	4.666	4.477
20) B Endosulfan Sulfa	6.50	7.45	92272104	21252667	4.439	4.401
21) A Methoxychlor	6.20	7.99	60429609	14334121	4.751	4.773
22) Mirex	6.32	8.28	111.9E6	27425217	5.101	5.237
23) B Endrin Ketone	6.93	8.34	129.1E6	27940457	4.597	4.346

(f)=RT Delta &gt; 1/2 Window

1G56961.D 1PST2096.M

Wed Sep 22 08:33:51 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56961.D\ECD1A.CH Vial: 5  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56961.D\ECD2B.CH  
Acq On : 9-21-10 06:23:03 PM Operator: owenm  
Sample : ic2096-5 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:33 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:31:33 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

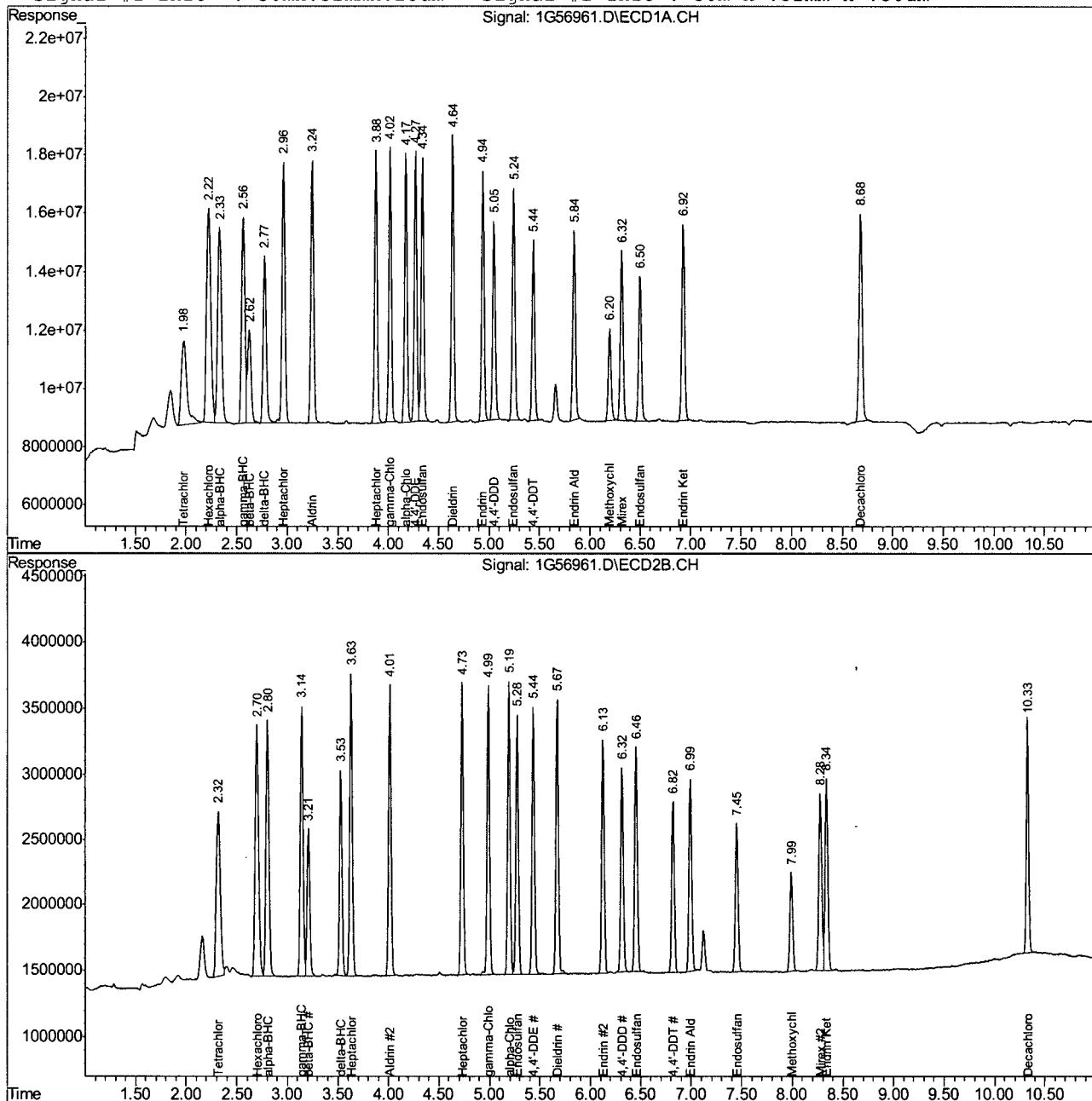
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** G1G2096-IC2096      **Method:** SW846 8081A  
**Lab FileID:** 1G56961.D      **Analyst approved:** 09/22/10 08:46 Owen McKenna  
**Injection Time:** 09/21/10 18:23      **Supervisor approved:** 09/24/10 12:21 Cheng-Hwan Ao

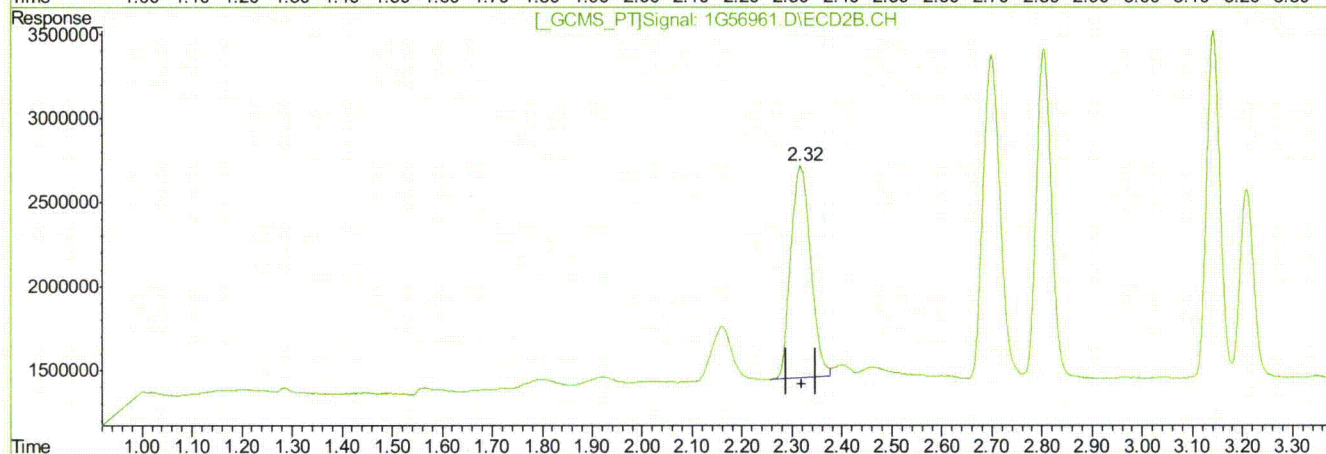
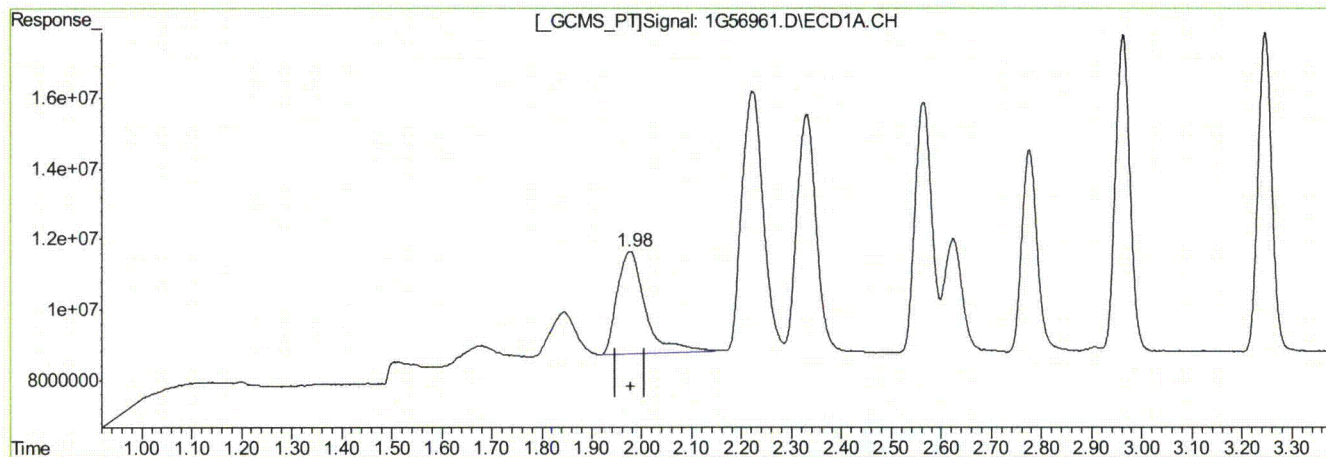
Parameter	CAS	Sig#	R. T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.98	Baseline ripple
Tetrachloro-m-xylene	877-09-8	2	2.32	Baseline ripple

10.6.3.1  
**10**

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56961.D\ECD1A.CH Vial: 5  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56961.D\ECD2B.CH  
Acq On : 9-21-10 06:23:03 PM Operator: owenm  
Sample : ic2096-5 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:33 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:31:33 2010  
Response via : Multiple Level Calibration



(1) Tetrachloro-m-xylene (SAB)

1.98min 5.262PPB m

response 114309959

(1) Tetrachloro-m-xylene #2 (SAB)

2.32min 4.697PPB m

response 35089219

QEdit

(+) = Expected Retention Time

1G56961.D 1PST2096.M

Wed Sep 22 08:33:44 2010

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56962.D\ECD1A.CH Vial: 6  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56962.D\ECD2B.CH  
 Acq On : 9-21-10 06:38:05 PM Operator: owenm  
 Sample : ic2096-10 Inst : GC1G  
 Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 22 8:32 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Sep 22 08:31:33 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.98	2.32	223.8E6	68663144	10.304	9.191
Spiked Amount	40.000	Range	30 - 150	Recovery	=	25.76%# 22.98%#
34) SA Decachlorobiphen	8.68	10.33	309.0E6	54665900	10.228	10.557
Spiked Amount	40.000	Range	30 - 150	Recovery	=	25.57%# 26.39%#
Target Compounds						
2) Hexachlorobenzen	2.22	2.70	433.2E6	90988869	10.184	9.917
3) A alpha-BHC	2.33	2.80	380.6E6	90208899	8.828	8.363
4) MA gamma-BHC	2.56	3.14	347.3E6	84349140	9.032	8.645
5) MA Heptachlor	2.96	3.63	388.2E6	86474039	9.427	9.014
6) B beta-BHC	2.62	3.21	159.3E6	43703874	10.161	9.907
7) B delta-BHC	2.78	3.53	261.2E6	59278399	8.609	8.135
8) MB Aldrin	3.25	4.02	371.8E6	81687593	9.486	8.793
9) B Heptachlor Epoxi	3.88	4.73	345.3E6	77765336	9.604	9.054
10) B gamma-Chlordane	4.02	4.99	343.9E6	79372060	9.418	9.064
11) B alpha-Chlordane	4.17	5.19	327.4E6	77467458	9.318	9.182
12) A Endosulfan I	4.34	5.28	337.9E6	72111627	9.747	9.130
13) B 4,4'-DDE	4.27	5.44	339.4E6	74348756	9.440	8.667
14) MA Dieldrin	4.64	5.67	357.9E6	76816772	9.548	8.943
15) MA Endrin	4.94	6.13	310.9E6	65644451	9.642	9.095
16) A 4,4'-DDD	5.05	6.32	259.2E6	59543352	9.151	8.720
17) B Endosulfan II	5.24	6.46	299.4E6	65198620	9.692	9.109
18) MA 4,4'-DDT	5.44	6.82	227.8E6	51893076	8.824	8.646
19) B Endrin Aldehyde	5.84	6.99	247.8E6	56610603	9.564	9.310
20) B Endosulfan Sulfa	6.50	7.45	193.5E6	44361305	9.310	9.186
21) A Methoxychlor	6.20	7.99	127.0E6	29651401	9.985	9.872
22) Mirex	6.32	8.28	223.9E6	54106047	10.206	10.333
23) B Endrin Ketone	6.93	8.34	269.9E6	59182524	9.612	9.205

(f)=RT Delta &gt; 1/2 Window

1G56962.D 1PST2096.M

Wed Sep 22 08:32:30 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56962.D\ECD1A.CH Vial: 6  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56962.D\ECD2B.CH  
Acq On : 9-21-10 06:38:05 PM Operator: owenm  
Sample : ic2096-10 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:32 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:31:33 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

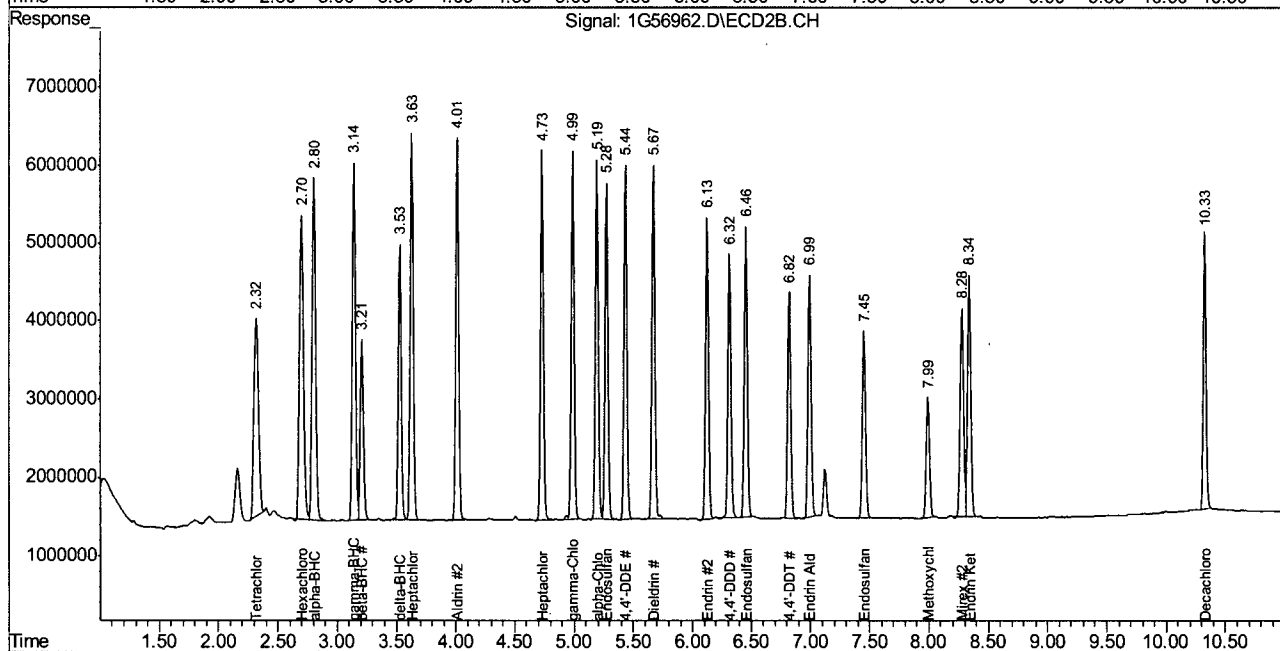
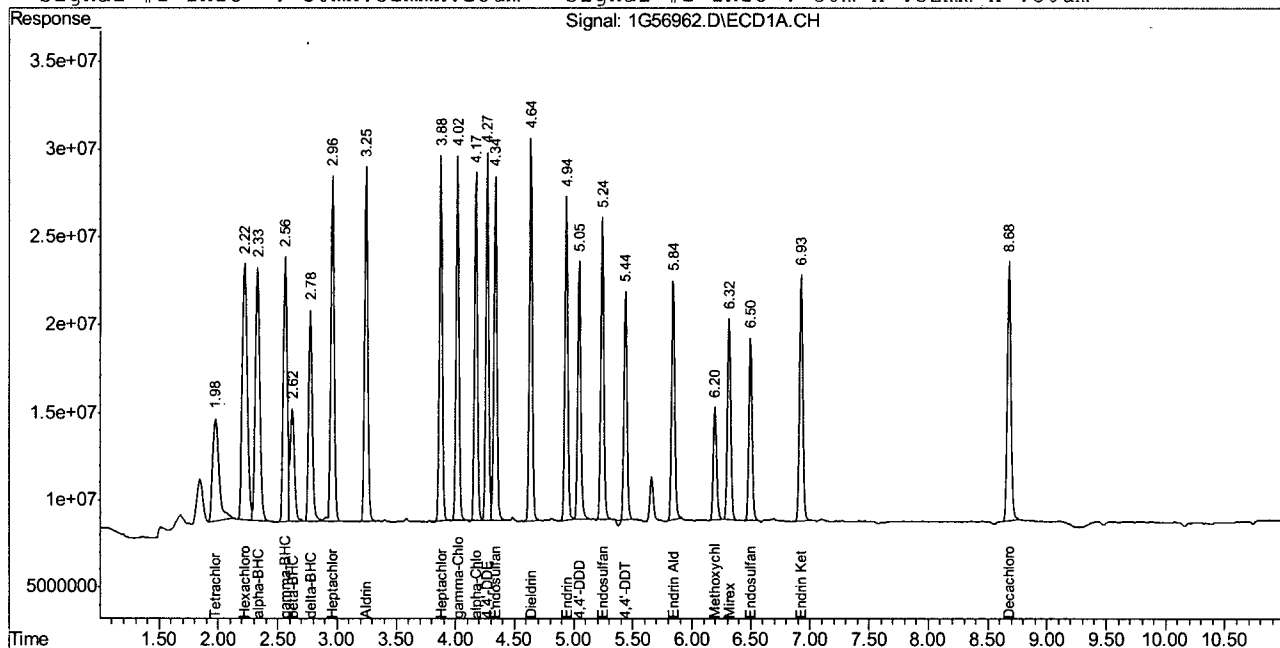
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G56962.D 1PST2096.M

Wed Sep 22 08:32:31 2010

RPT1

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56963.D\ECD1A.CH Vial: 7  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56963.D\ECD2B.CH  
 Acq On : 9-21-10 06:53:00 PM Operator: owenm  
 Sample : icc2096-25 Inst : GC1G  
 Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 22 8:30 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Sep 22 08:29:54 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.98	2.32	501.6E6	172.9E6	25.000	25.000
Spiked Amount	40.000	Range	30 - 150	Recovery	=	62.50% 62.50%
34) SA Decachlorobiphen	8.68	10.33	737.6E6	129.3E6	25.000	25.000
Spiked Amount	40.000	Range	30 - 150	Recovery	=	62.50% 62.50%
Target Compounds						
2) Hexachlorobenzen	2.22	2.70	1037.3E6	225.3E6	25.000	25.000
3) A alpha-BHC	2.33	2.81	991.1E6	247.7E6	25.000	25.000
4) MA gamma-BHC	2.56	3.14	889.0E6	226.6E6	25.000	25.000
5) MA Heptachlor	2.96	3.63	959.5E6	226.6E6	25.000	25.000
6) B beta-BHC	2.62	3.21	374.7E6	107.6E6	25.000	25.000
7) B delta-BHC	2.78	3.53	678.0E6	163.6E6	25.000	25.000
8) MB Aldrin	3.25	4.02	915.0E6	217.3E6	25.000	25.000
9) B Heptachlor Epoxi	3.88	4.73	845.8E6	203.9E6	25.000	25.000
10) B gamma-Chlordane	4.02	4.99	848.5E6	207.4E6	25.000	25.000
11) B alpha-Chlordane	4.17	5.19	824.7E6	200.3E6	25.000	25.000
12) A Endosulfan I	4.34	5.28	822.8E6	187.4E6	25.000	25.000
13) B 4,4'-DDE	4.27	5.44	838.9E6	200.3E6	25.000	25.000
14) MA Dieldrin	4.64	5.67	884.2E6	204.5E6	25.000	25.000
15) MA Endrin	4.94	6.13	752.4E6	167.9E6	25.000	25.000
16) A 4,4'-DDD	5.05	6.32	661.0E6	158.8E6	25.000	25.000
17) B Endosulfan II	5.24	6.46	736.8E6	168.7E6	25.000	25.000
18) MA 4,4'-DDT	5.44	6.82	596.9E6	137.9E6	25.000	25.000
19) B Endrin Aldehyde	5.84	6.99	620.4E6	144.7E6	25.000	24.861
20) B Endosulfan Sulfa	6.50	7.45	494.5E6	112.6E6	25.000	24.818
21) A Methoxychlor	6.20	7.99	310.6E6	71417424	25.000	24.375
22) Mirex	6.32	8.28	546.1E6	129.6E6	25.000	24.867
23) B Endrin Ketone	6.93	8.34	672.3E6	151.4E6	25.000	24.369

(f)=RT Delta &gt; 1/2 Window

1G56963.D 1PST2096.M

Wed Sep 22 08:30:11 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56963.D\ECD1A.CH Vial: 7  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56963.D\ECD2B.CH  
Acq On : 9-21-10 06:53:00 PM Operator: owenm  
Sample : icc2096-25 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:30 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:29:54 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

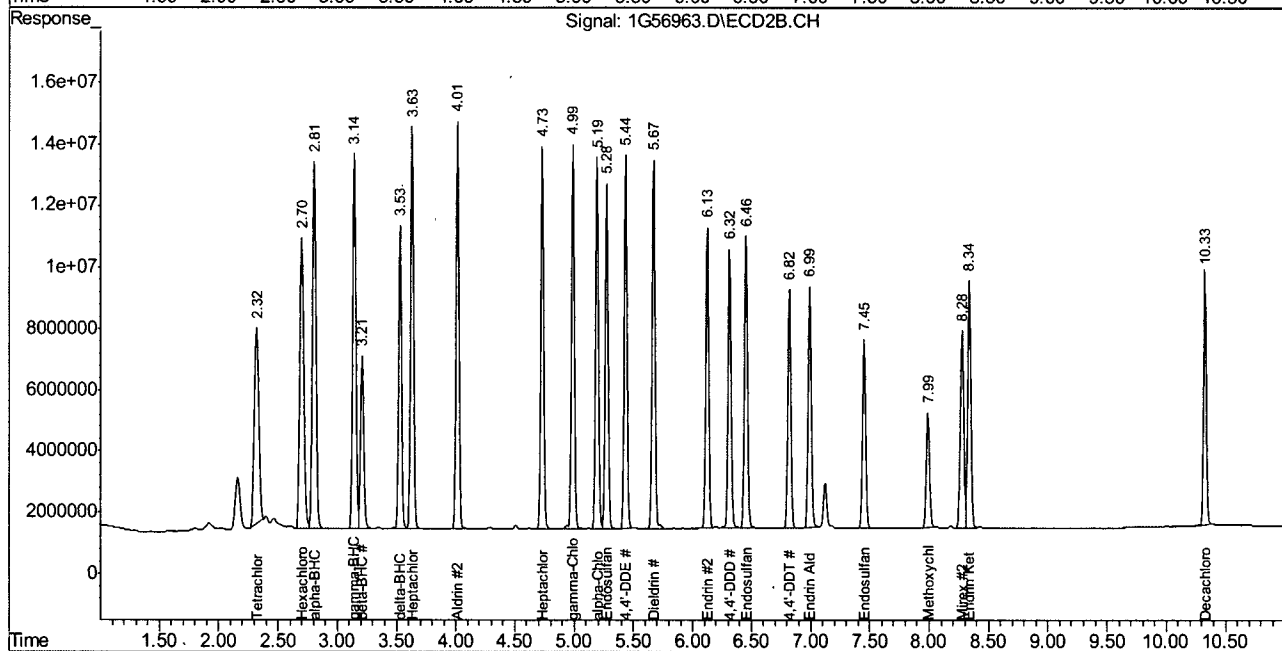
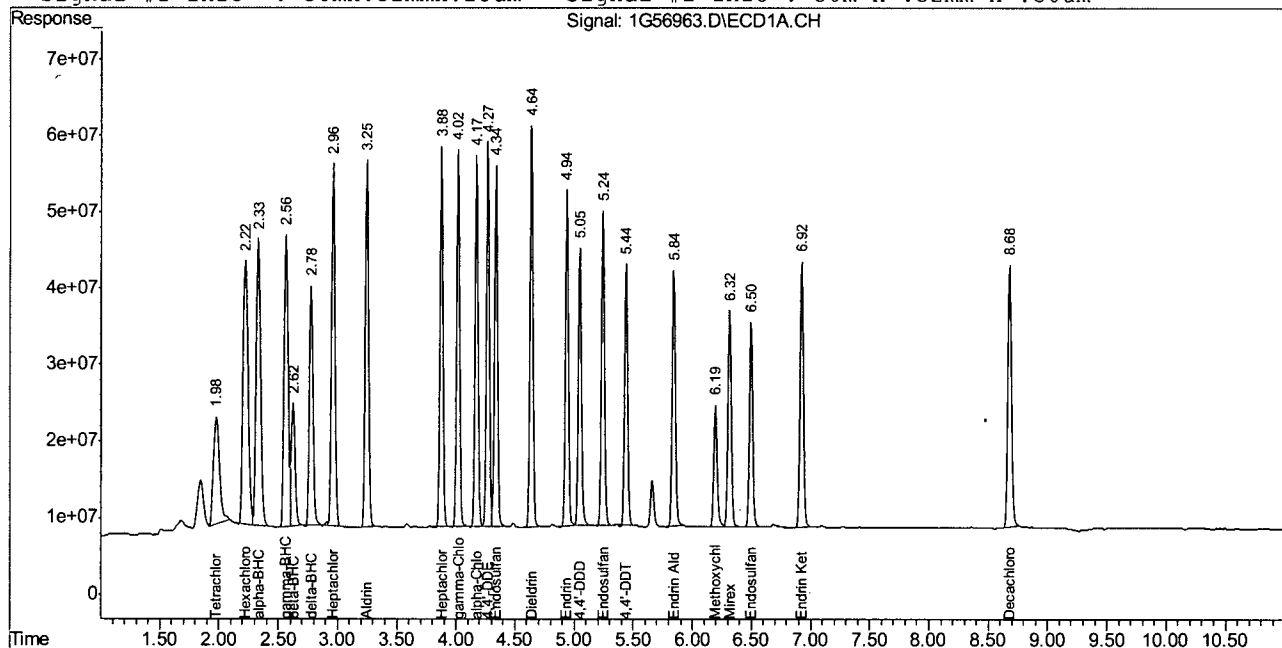
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G56963.D 1PST2096.M

Wed Sep 22 08:30:12 2010

RPT1

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56964.D\ECD1A.CH Vial: 8  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56964.D\ECD2B.CH  
 Acq On : 9-21-10 07:07:59 PM Operator: owenm  
 Sample : ic2096-50 Inst : GC1G  
 Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 22 8:30 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Sep 22 08:29:54 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.98	2.32	1084.3E6	364.2E6	54.040	52.659
Spiked Amount	40.000	Range	30 - 150	Recovery	= 135.10%	131.65%
34) SA Decachlorobiphen	8.68	10.33	1446.2E6	248.3E6	49.014	48.009
Spiked Amount	40.000	Range	30 - 150	Recovery	= 122.54%	120.02%
Target Compounds						
2) Hexachlorobenzen	2.22	2.70	2039.7E6	440.9E6	49.158	48.935
3) A alpha-BHC	2.33	2.81	2070.1E6	519.1E6	52.219	52.384
4) MA gamma-BHC	2.56	3.14	1842.7E6	469.0E6	51.819	51.733
5) MA Heptachlor	2.96	3.63	1980.0E6	462.0E6	51.591	50.974
6) B beta-BHC	2.62	3.21	769.4E6	211.0E6	51.333	49.018
7) B delta-BHC	2.78	3.53	1445.8E6	347.3E6	53.309	53.062
8) MB Aldrin	3.25	4.02	1880.9E6	447.4E6	51.390	51.462
9) B Heptachlor Epoxi	3.88	4.73	1732.7E6	413.4E6	51.218	50.690
10) B gamma-Chlordane	4.02	4.99	1747.4E6	419.1E6	51.485	50.518
11) B alpha-Chlordane	4.17	5.19	1681.2E6	405.0E6	50.967	50.552
12) A Endosulfan I	4.34	5.28	1666.0E6	379.5E6	50.622	50.616
13) B 4,4'-DDE	4.27	5.44	1723.4E6	412.5E6	51.356	51.479
14) MA Dieldrin	4.64	5.67	1802.1E6	410.3E6	50.951	50.159
15) MA Endrin	4.94	6.13	1538.9E6	342.7E6	51.137	51.027
16) A 4,4'-DDD	5.05	6.32	1358.6E6	327.7E6	51.386	51.578
17) B Endosulfan II	5.24	6.46	1478.0E6	343.6E6	50.148	50.920
18) MA 4,4'-DDT	5.44	6.82	1238.5E6	287.3E6	51.871	52.068
19) B Endrin Aldehyde	5.84	6.99	1254.8E6	293.1E6	50.568	50.346
20) B Endosulfan Sulfa	6.50	7.45	991.0E6	229.7E6	50.101	50.611
21) A Methoxychlor	6.20	7.99	621.9E6	144.3E6	50.055	49.250
22) Mirex	6.32	8.28	1049.1E6	250.1E6	48.028	47.974
23) B Endrin Ketone	6.92	8.34	1349.5E6	305.9E6	50.181	49.249

(f)=RT Delta &gt; 1/2 Window

1G56964.D 1PST2096.M Wed Sep 22 08:30:41 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56964.D\ECD1A.CH Vial: 8  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56964.D\ECD2B.CH  
Acq On : 9-21-10 07:07:59 PM Operator: owenm  
Sample : ic2096-50 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:30 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:29:54 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

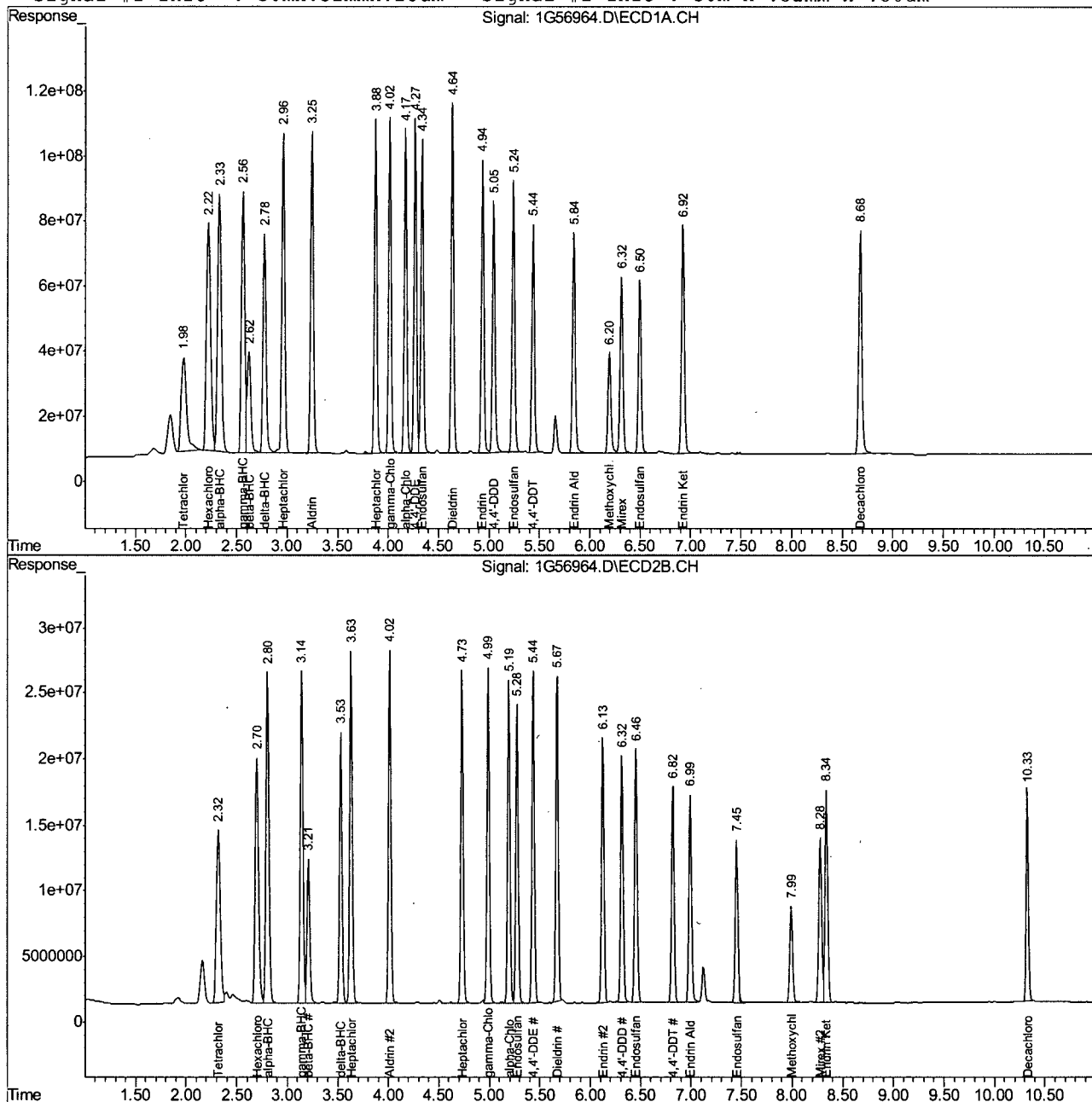
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G56964.D 1PST2096.M

Wed Sep 22 08:30:42 2010

RPT1

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56965.D\ECD1A.CH Vial: 9  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56965.D\ECD2B.CH  
 Acq On : 9-21-10 07:22:58 PM Operator: owenm  
 Sample : ic2096-100 Inst : GC1G  
 Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 22 8:31 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Sep 22 08:30:46 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.98	2.32	2341.4E6	820.9E6	112.156	115.608
Spiked Amount	40.000	Range	30 - 150	Recovery	= 280.39%#	289.02%#
34) SA Decachlorobiphen	8.68	10.33	3222.0E6	539.6E6	110.286	106.458
Spiked Amount	40.000	Range	30 - 150	Recovery	= 275.72%#	266.14%#
Target Compounds						
2) Hexachlorobenzen	2.22	2.70	4533.3E6	969.8E6	110.184	108.793
3) A alpha-BHC	2.33	2.81	4830.0E6	1207.1E6	119.192	118.988
4) MA gamma-BHC	2.56	3.14	4295.1E6	1082.6E6	118.625	117.395
5) MA Heptachlor	2.96	3.63	4554.4E6	1047.4E6	116.810	114.448
6) B beta-BHC	2.62	3.21	1667.0E6	470.9E6	109.762	110.449
7) B delta-BHC	2.78	3.53	3498.7E6	837.0E6	124.866	124.076
8) MB Aldrin	3.25	4.02	4335.3E6	1022.8E6	116.822	115.960
9) B Heptachlor Epoxi	3.88	4.73	3937.0E6	934.1E6	114.974	113.746
10) B gamma-Chlordane	4.02	4.99	4066.8E6	959.3E6	118.072	115.041
11) B alpha-Chlordane	4.17	5.20	3880.0E6	920.0E6	116.499	114.199
12) A Endosulfan I	4.34	5.28	3776.4E6	860.8E6	114.035	114.120
13) B 4,4'-DDE	4.27	5.44	3983.5E6	947.3E6	117.121	116.498
14) MA Dieldrin	4.64	5.67	4106.2E6	938.5E6	115.000	114.568
15) MA Endrin	4.94	6.13	3584.7E6	808.1E6	117.776	119.077
16) A 4,4'-DDD	5.05	6.32	3137.5E6	757.8E6	117.045	117.423
17) B Endosulfan II	5.24	6.46	3364.3E6	785.3E6	113.977	115.327
18) MA 4,4'-DDT	5.44	6.82	2881.9E6	674.1E6	118.486	119.700
19) B Endrin Aldehyde	5.84	6.99	2781.0E6	655.9E6	111.439	112.288
20) B Endosulfan Sulfa	6.50	7.45	2275.6E6	535.5E6	114.931	117.263
21) A Methoxychlor	6.20	7.99	1329.5E6	319.5E6	106.947	109.855
22) Mirex	6.32	8.28	2299.0E6	549.3E6	107.367	107.536
23) B Endrin Ketone	6.93	8.34	3036.8E6	695.8E6	112.725	112.873

(f)=RT Delta &gt; 1/2 Window

1G56965.D 1PST2096.M

Wed Sep 22 08:31:30 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56965.D\ECD1A.CH Vial: 9  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56965.D\ECD2B.CH  
Acq On : 9-21-10 07:22:58 PM Operator: owenm  
Sample : ic2096-100 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:31 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:30:46 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

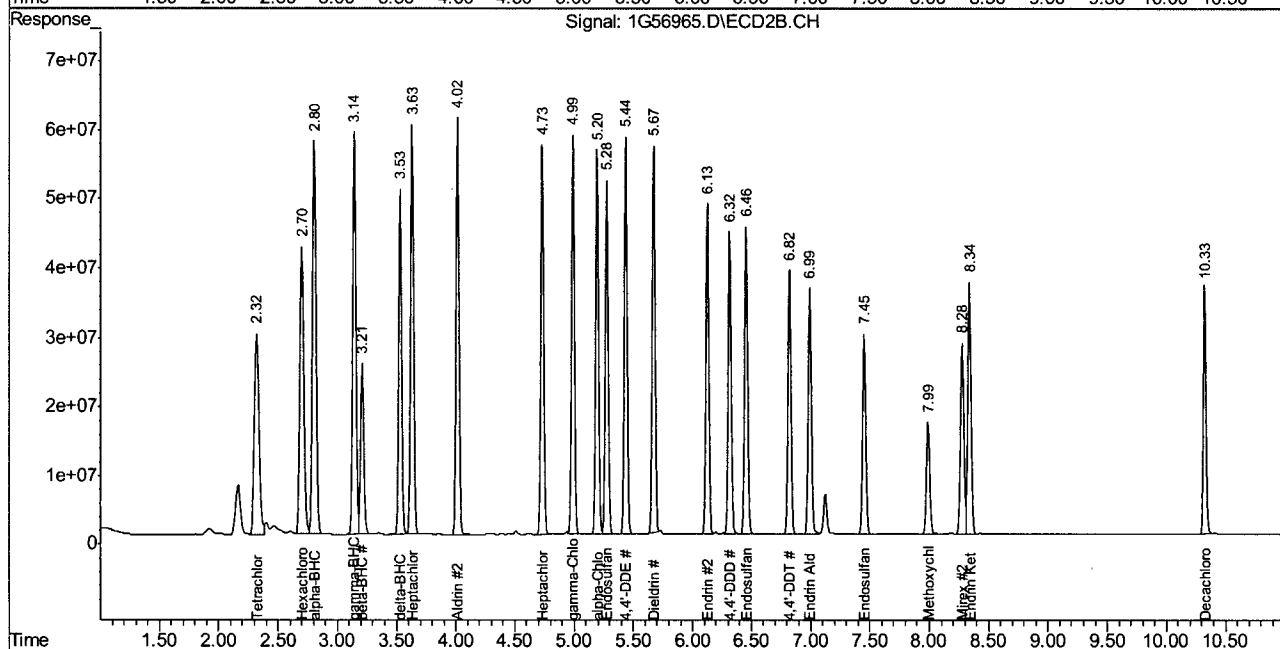
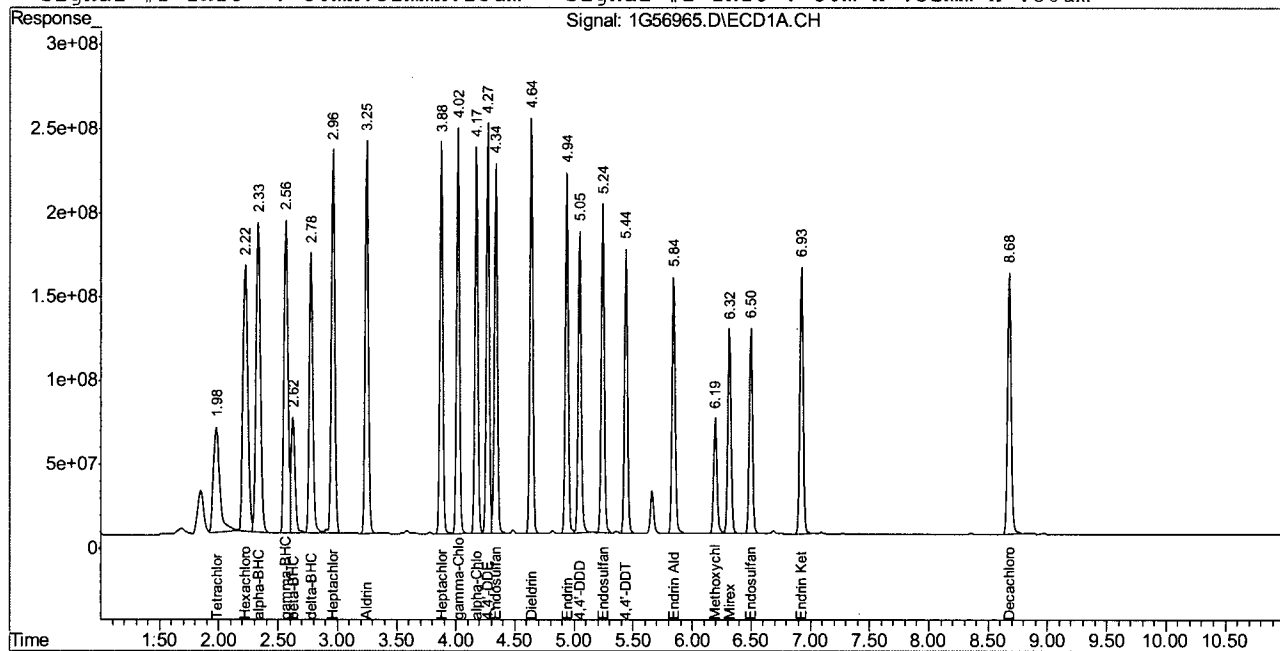
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G56965.D 1PST2096.M

Wed Sep 22 08:31:30 2010

RPT1

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56966.D\ECD1A.CH Vial: 10  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56966.D\ECD2B.CH  
 Acq On : 9-21-10 07:37:57 PM Operator: owenm  
 Sample : ic2096-500 Inst : GC1G  
 Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 22 8:37 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Sep 22 08:37:43 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.98	2.32	916.5E6	346.4E6	44.485	47.117
Spiked Amount	40.000	Range	30 - 150	Recovery	= 111.21%	117.79%
34) SA Decachlorobiphen	8.68	10.33	1383.4E6	229.7E6	46.426	45.335
Spiked Amount	40.000	Range	30 - 150	Recovery	= 116.07%	113.34%
Target Compounds						
24) L8 Toxaphene{A}	4.76	5.64	245.9E6	69835875	500.000	500.000
25) L8 Toxaphene{B}	5.23	6.44	593.3E6	92697006	500.000	500.000
26) L8 Toxaphene{C}	5.40	6.59	476.0E6	185.2E6	500.000	500.000
27) L8 Toxaphene{D}	5.71	7.02	456.8E6	98124840	500.000	500.000
28) L8 Toxaphene{E}	6.34	7.86	373.6E6	74369721	500.000	500.000

(f)=RT Delta &gt; 1/2 Window

1G56966.D 1PST2096.M

Wed Sep 22 08:38:09 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56966.D\ECD1A.CH Vial: 10  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56966.D\ECD2B.CH  
Acq On : 9-21-10 07:37:57 PM Operator: owenm  
Sample : ic2096-500 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:37 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:37:43 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

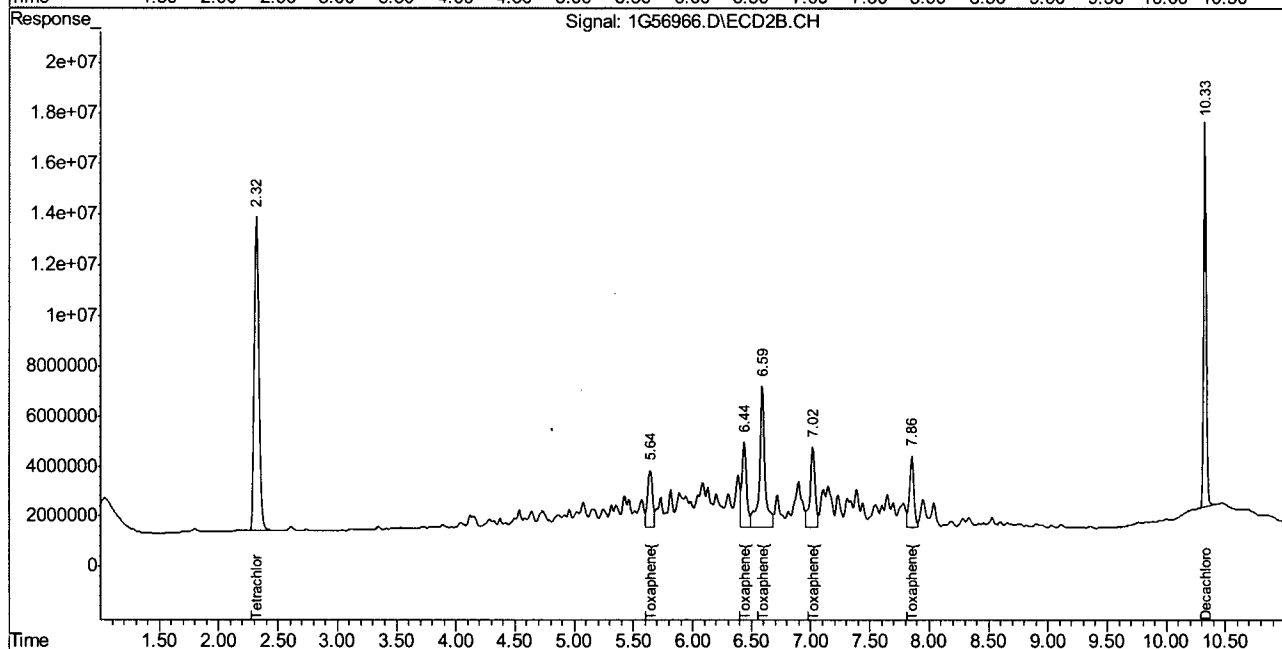
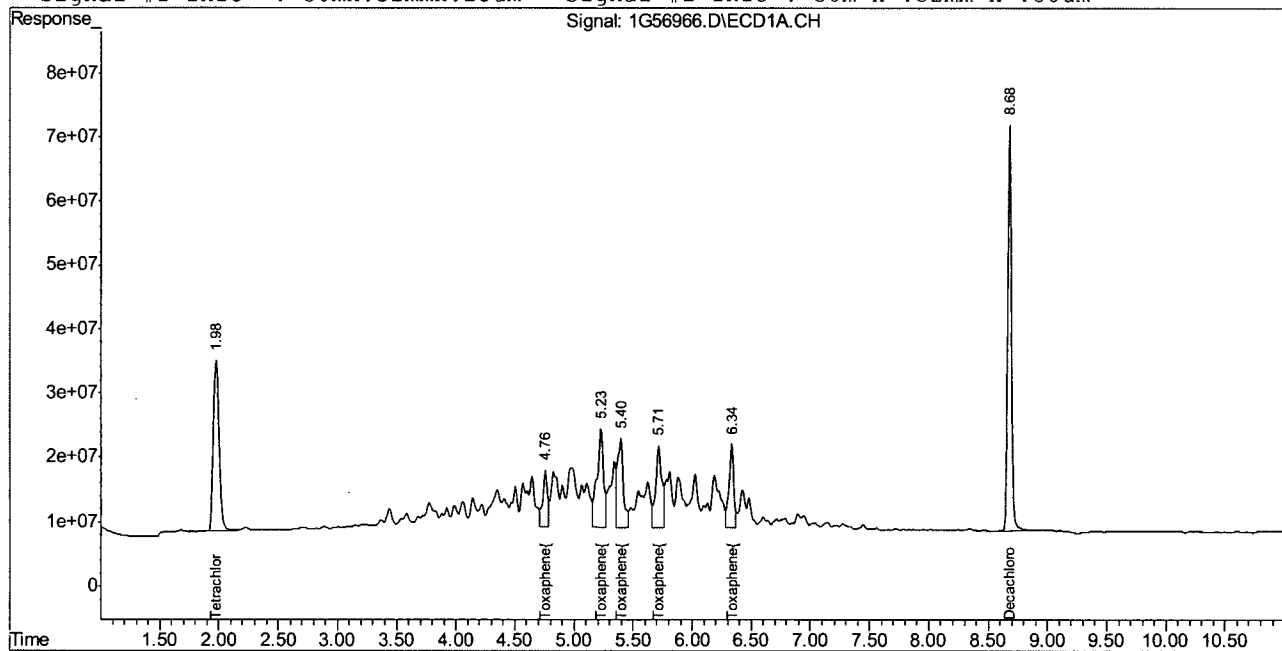
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G56966.D 1PST2096.M

Wed Sep 22 08:38:09 2010

RPT1

Page 2

Cheng-Hwan Ao  
09/24/10 12:21

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56967.D\ECD1A.CH Vial: 11  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56967.D\ECD2B.CH  
 Acq On : 9-21-10 07:52:51 PM Operator: owenm  
 Sample : ic2096-500 Inst : GC1G  
 Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 22 8:39 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Sep 22 08:39:03 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.97	2.32	1011.6E6	358.9E6	47.657	48.241
Spiked Amount	40.000	Range	30 - 150	Recovery	= 119.14%	120.60%
34) SA Decachlorobiphen	8.68	10.33	1311.7E6	225.5E6	44.824	44.829
Spiked Amount	40.000	Range	30 - 150	Recovery	= 112.06%	112.07%
Target Compounds						
29) Chlordane {A}	2.96	3.63	999.7E6	238.2E6	501.861	498.044
30) Chlordane {B}	3.37	4.18	641.5E6	137.4E6	514.827	493.155
31) Chlordane {C}	4.02	4.99	2339.5E6	514.7E6	514.975	499.884
32) Chlordane {D}	4.16	5.12	3907.3E6	913.0E6	510.795	499.062m
33) Chlordane {E}	5.15	6.53	547.1E6	116.5E6	473.325	491.997

(f)=RT Delta &gt; 1/2 Window

1G56967.D 1PST2096.M

Wed Sep 22 08:39:46 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56967.D\ECD1A.CH Vial: 11  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56967.D\ECD2B.CH  
Acq On : 9-21-10 07:52:51 PM Operator: owenm  
Sample : ic2096-500 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:39 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:39:03 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

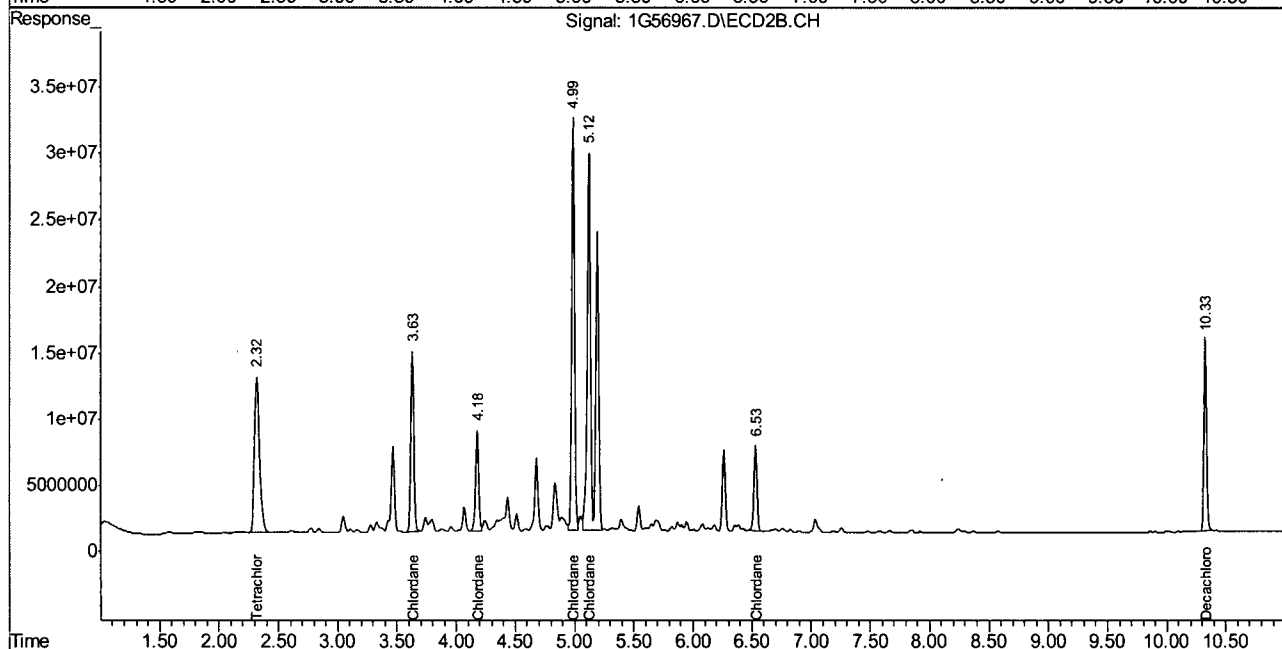
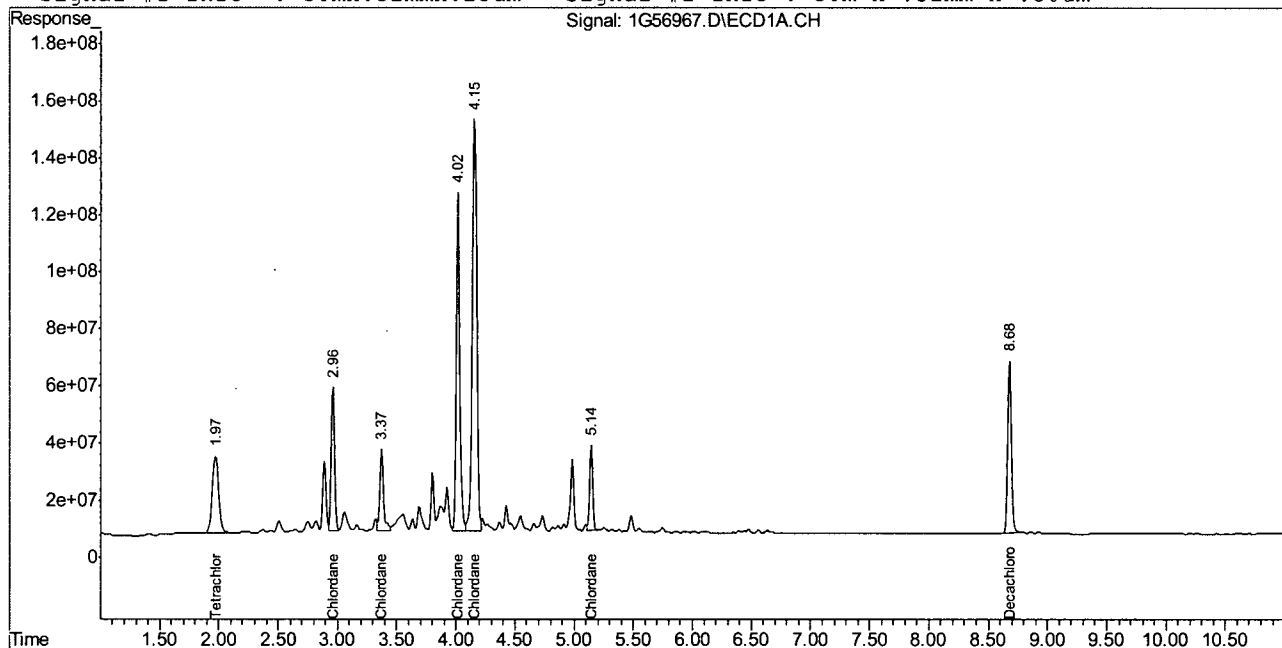
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G56967.D 1PST2096.M

Wed Sep 22 08:39:46 2010

RPT1

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** G1G2096-IC2096      **Method:** SW846 8081A  
**Lab FileID:** 1G56967.D      **Analyst approved:** 09/22/10 08:46 Owen McKenna  
**Injection Time:** 09/21/10 19:52      **Supervisor approved:** 09/24/10 12:21 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	5.12	Split peak

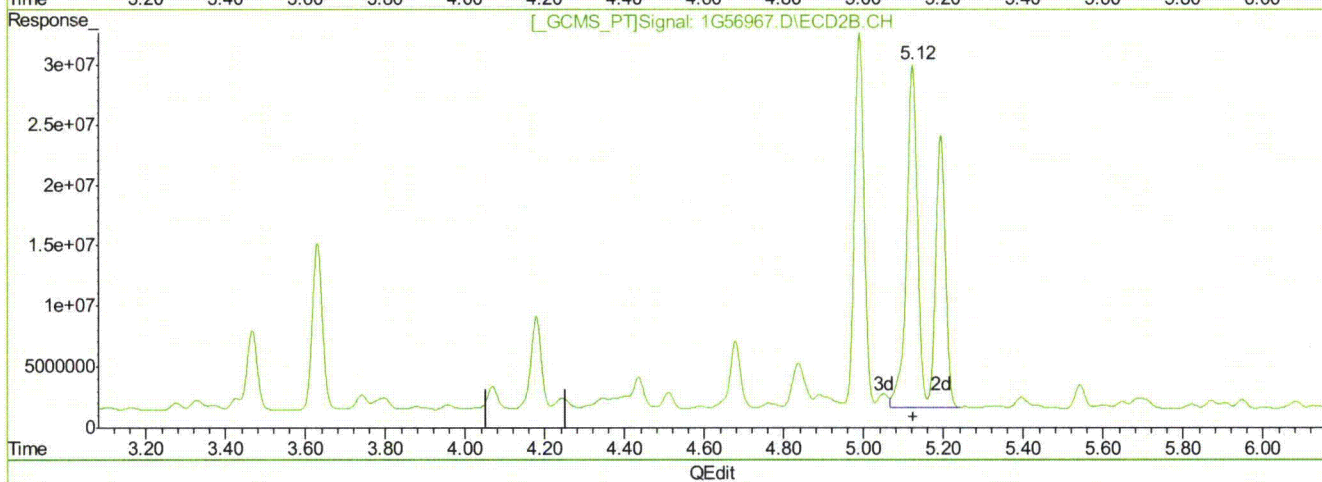
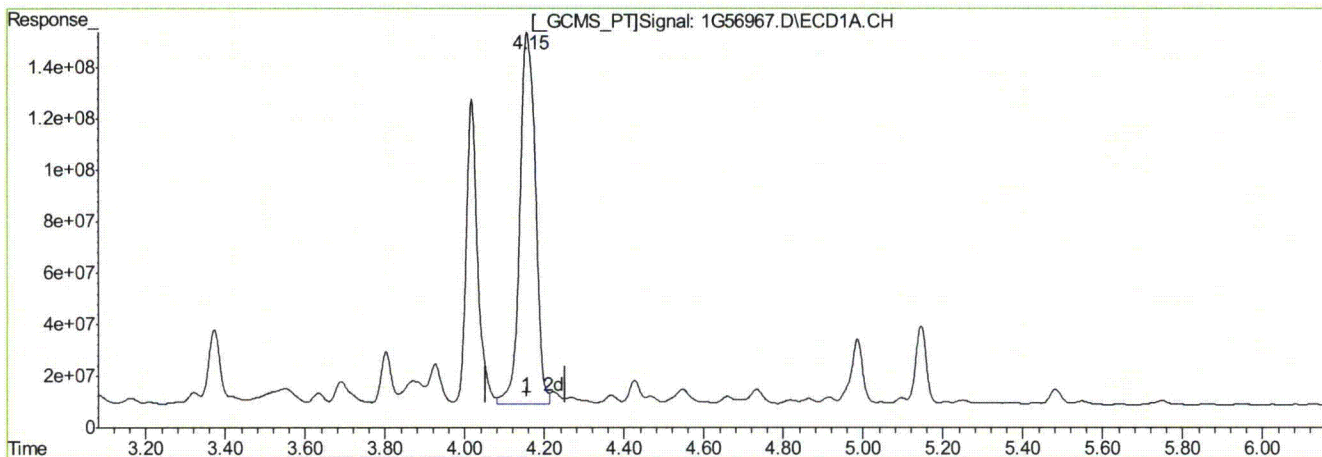
10.6.9.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56967.D\ECD1A.CH Vial: 11  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56967.D\ECD2B.CH  
Acq On : 9-21-10 07:52:51 PM Operator: owenm  
Sample : ic2096-500 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:39 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:39:03 2010  
Response via : Multiple Level Calibration



(32) Chlordane {D}  
4.16min 510.795PPB  
response 3907313945

(32) Chlordane {D} #2  
5.12min 499.062PPB m  
response 913041371

(+) = Expected Retention Time  
1G56967.D 1PST2096.M Wed Sep 22 08:39:37 2010 RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56968.D\ECD1A.CH Vial: 12  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56968.D\ECD2B.CH  
 Acq On : 9-21-10 08:07:45 PM Operator: owenm  
 Sample : icv2096-25 Inst : GC1G  
 Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 22 8:41 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Sep 22 08:41:02 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----							
System Monitoring Compounds							
Target Compounds							
3)	A alpha-BHC	2.33	2.81	1004.8E6	250.1E6	25.328	26.850
4)	MA gamma-BHC	2.56	3.14	918.2E6	230.8E6	25.621	26.556
5)	MA Heptachlor	2.96	3.63	971.7E6	225.3E6	24.709	25.178
6)	B beta-BHC	2.62	3.21	381.3E6	108.6E6	23.636	24.486
7)	B delta-BHC	2.78	3.53	738.1E6	171.4E6	27.011	27.547
8)	MB Aldrin	3.25	4.02	941.9E6	219.9E6	25.129	26.311
9)	B Heptachlor Epoxi	3.88	4.73	869.6E6	205.7E6	24.842	25.644
10)	B gamma-Chlordane	4.02	4.99	871.4E6	208.9E6	24.679	25.620
11)	B alpha-Chlordane	4.17	5.19	846.3E6	202.2E6	24.970	25.252
12)	A Endosulfan I	4.34	5.28	848.4E6	189.4E6	24.546	25.317
13)	B 4,4'-DDE	4.27	5.44	853.8E6	200.4E6	24.720	26.031
14)	MA Dieldrin	4.64	5.67	907.6E6	204.3E6	25.168	25.877
15)	MA Endrin	4.94	6.13	787.6E6	174.2E6	25.123	25.672
16)	A 4,4'-DDD	5.05	6.32	681.8E6	157.5E6	25.352	25.290
17)	B Endosulfan II	5.24	6.46	757.6E6	172.2E6	24.877	25.436
18)	MA 4,4'-DDT	5.44	6.82	596.6E6	133.9E6	25.050	25.118
19)	B Endrin Aldehyde	5.84	6.99	630.8E6	142.4E6	24.475	23.907
20)	B Endosulfan Sulfa	6.50	7.45	518.8E6	117.4E6	25.834	25.451
21)	A Methoxychlor	6.20	7.99	313.0E6	71162792	24.253	23.919
23)	B Endrin Ketone	6.93	8.34	682.4E6	150.9E6	24.951	24.825

(f)=RT Delta > 1/2 Window  
 1G56968.D 1PST2096.M

Wed Sep 22 08:42:06 2010

(m)=manual int.  
 RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56968.D\ECD1A.CH Vial: 12  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56968.D\ECD2B.CH  
Acq On : 9-21-10 08:07:45 PM Operator: owenm  
Sample : icv2096-25 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:41 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:41:02 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

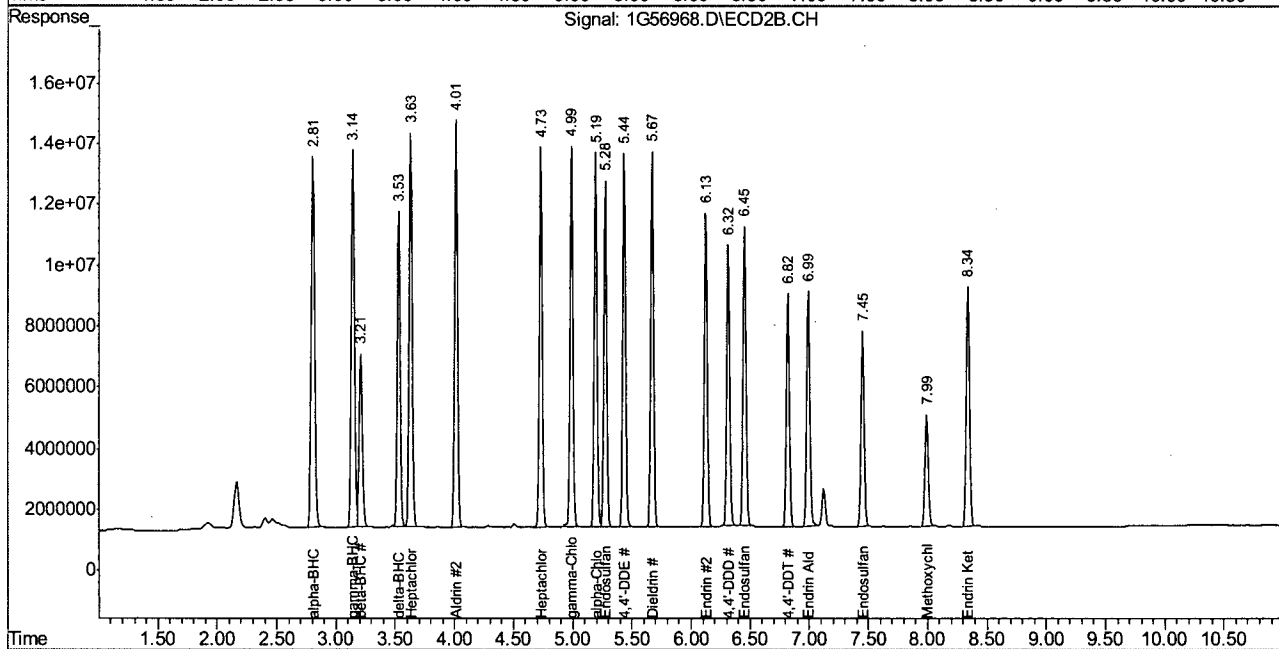
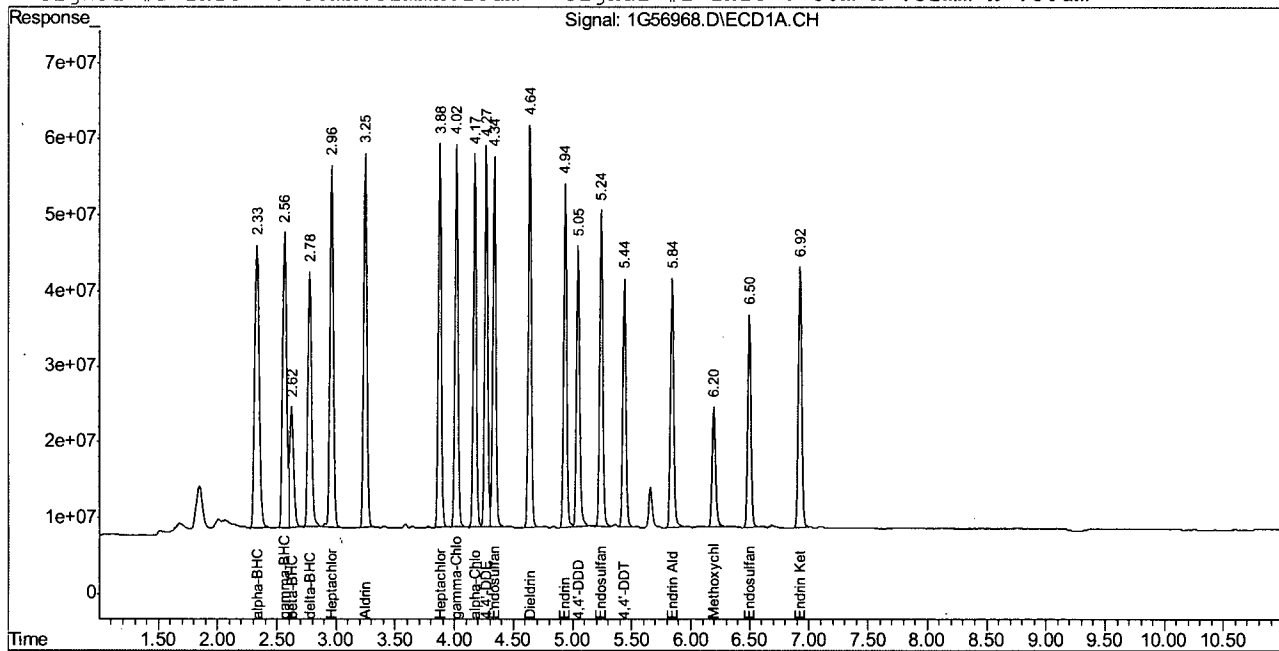
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G56968.D 1PST2096.M

Wed Sep 22 08:42:06 2010

RPT1

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56969.D\ECD1A.CH Vial: 13  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56969.D\ECD2B.CH  
Acq On : 9-21-10 08:22:38 PM Operator: owenm  
Sample : icv2096-25 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:42 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:41:02 2010  
Response via : Initial Calibration  
DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
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## System Monitoring Compounds

## Target Compounds

2)	Hexachlorobenzen	2.22	2.70	980.7E6	209.7E6	21.887	22.437
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(f)=RT Delta &gt; 1/2 Window

1G56969.D 1PST2096.M

Wed Sep 22 08:42:24 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56969.D\ECD1A.CH Vial: 13  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56969.D\ECD2B.CH  
Acq On : 9-21-10 08:22:38 PM Operator: owenm  
Sample : icv2096-25 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 8:42 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:41:02 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

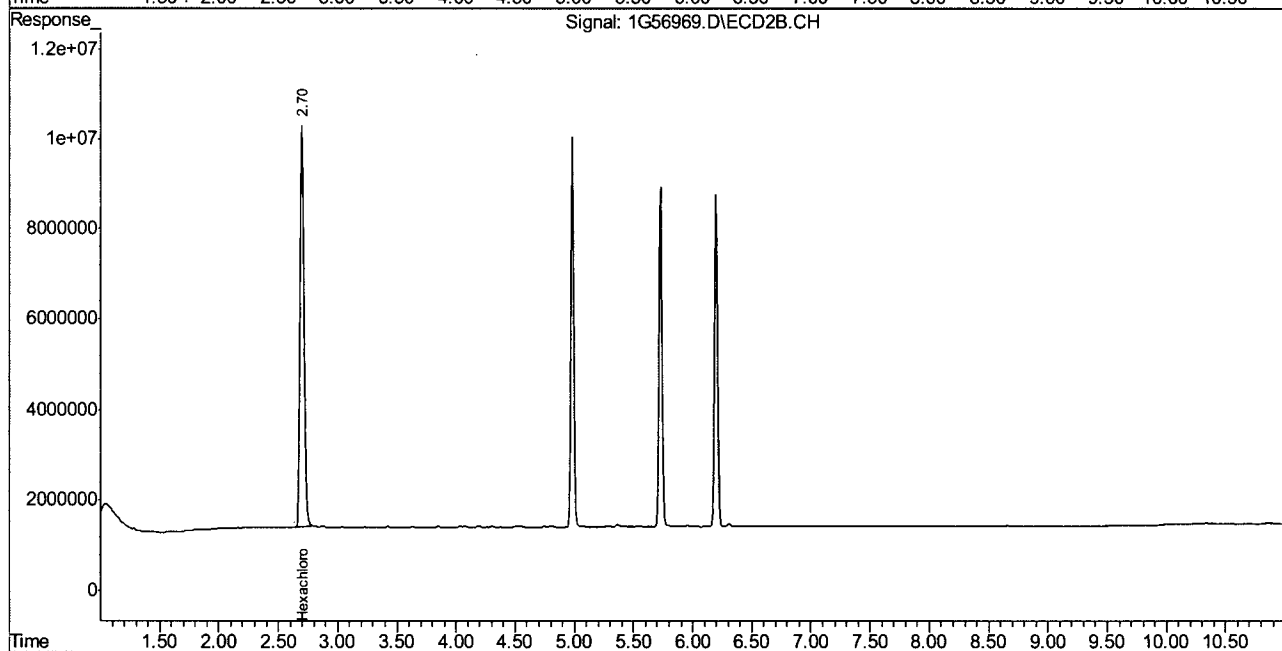
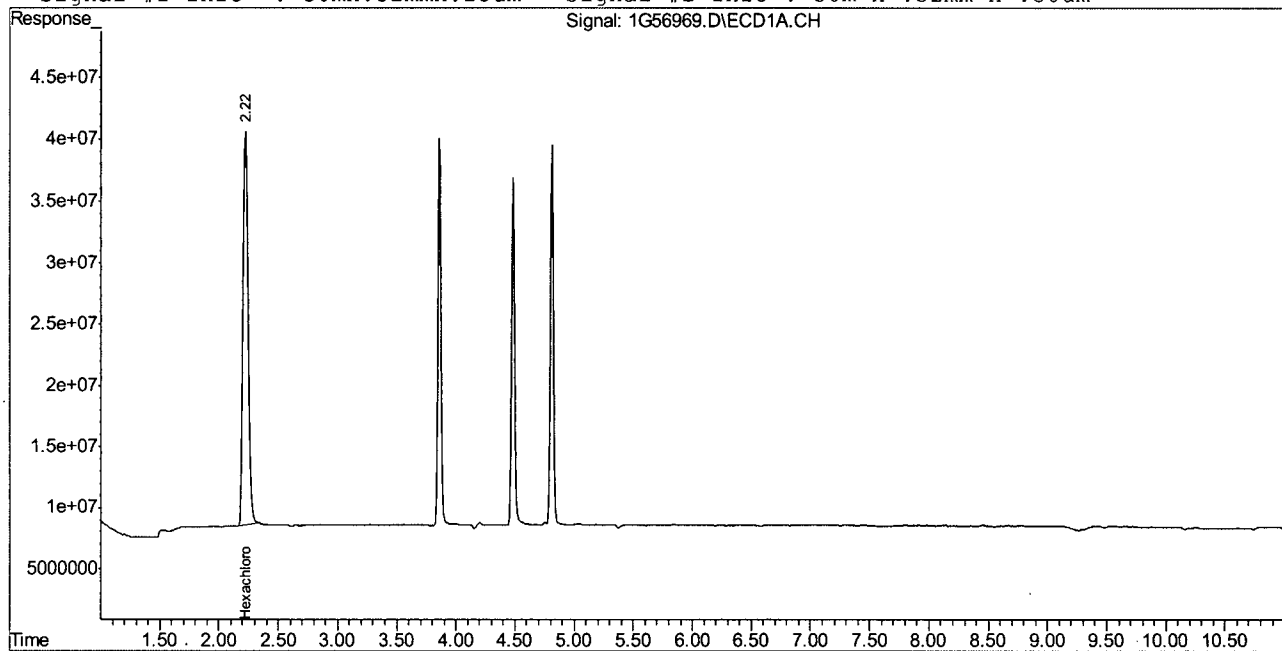
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase : RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G56969.D 1PST2096.M

Wed Sep 22 08:42:24 2010

RPT1

Page 2

Owen McKenna  
09/24/10 12:58

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56970.D\ECD1A.CH Vial: 14  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56970.D\ECD2B.CH  
Acq On : 9-21-10 08:37:38 PM Operator: owenm  
Sample : icv2096-500 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 9:42 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:41:02 2010  
Response via : Initial Calibration  
DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
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## System Monitoring Compounds

1) SAB Tetrachloro-m-xy	1.98	2.32	985.0E6	370.4E6	44.750	51.589
Spiked Amount	40.000	Range	30 - 150	Recovery	=	111.87% 128.97%
34) SA Decachlorobiphen	8.68	10.33	1483.6E6	255.4E6	47.165	46.180
Spiked Amount	40.000	Range	30 - 150	Recovery	=	117.91% 115.45%

## Target Compounds

24) L8 Toxaphene{A}	4.76	5.64	241.9E6	76927020	491.837	550.770
25) L8 Toxaphene{B}	5.23	6.44	599.9E6	86260243	505.515	465.281
26) L8 Toxaphene{C}	5.40	6.59	471.5E6	150.0E6	495.277m	404.862
27) L8 Toxaphene{D}	5.72	7.02	393.5E6	77512473	430.699	394.969
28) L8 Toxaphene{E}	6.34	7.86	280.6E6	55443622	375.495	372.757

(f)=RT Delta &gt; 1/2 Window

1G56970.D 1PST2096.M

Wed Sep 22 09:42:13 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56970.D\ECD1A.CH Vial: 14  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56970.D\ECD2B.CH  
Acq On : 9-21-10 08:37:38 PM Operator: owenm  
Sample : icv2096-500 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 9:42 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:41:02 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

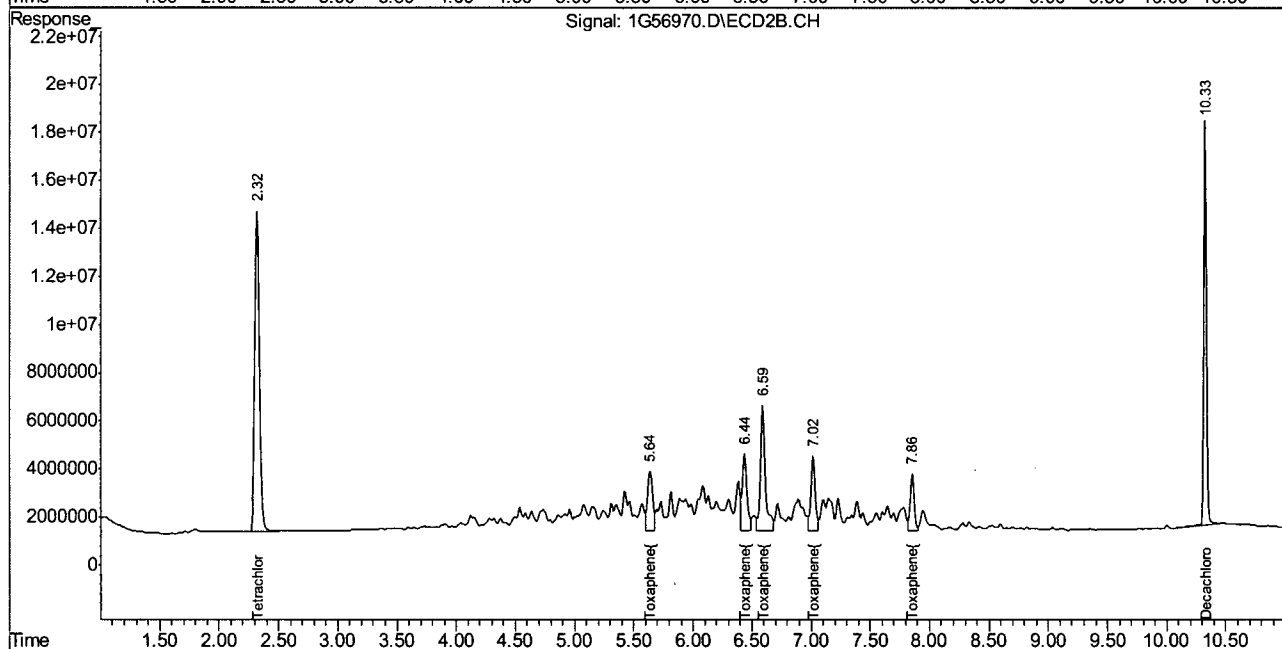
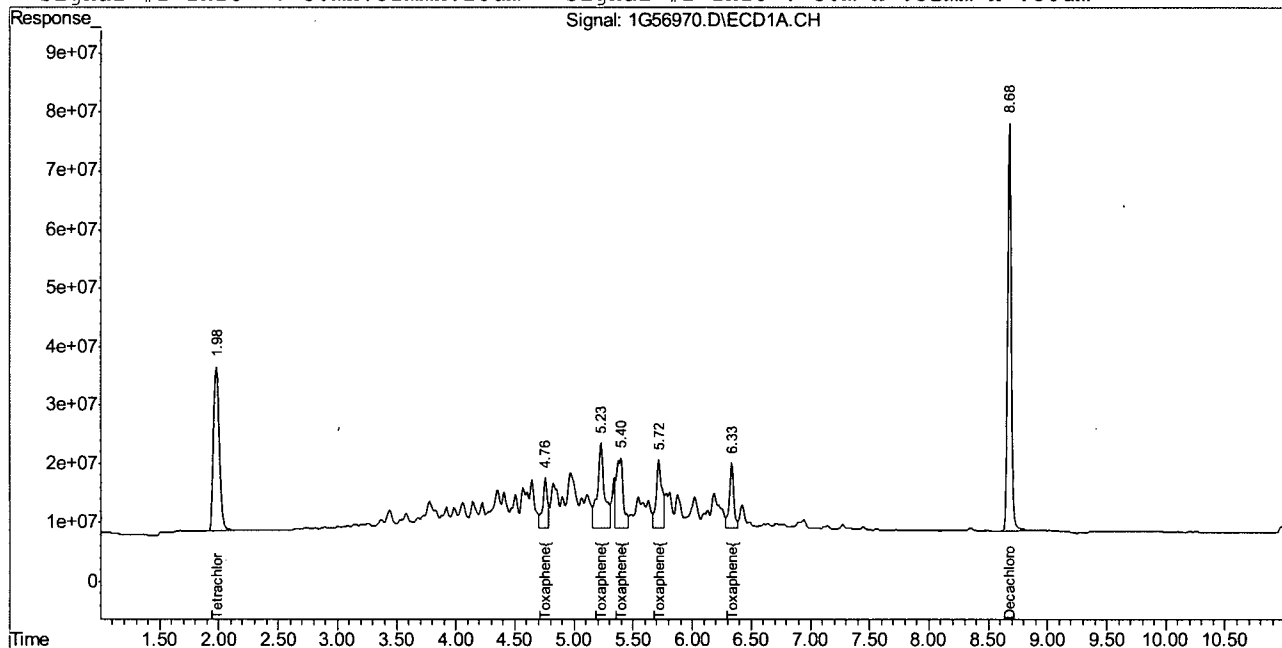
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G56970.D 1PST2096.M

Wed Sep 22 09:42:13 2010

RPT1

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** G1G2096-ICV2096      **Method:** SW846 8081A  
**Lab FileID:** 1G56970.D      **Analyst approved:** 09/24/10 09:42 Owen McKenna  
**Injection Time:** 09/21/10 20:37      **Supervisor approved:** 09/24/10 12:58 Owen McKenna

Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-C		1	5.40	Poorly defined baseline

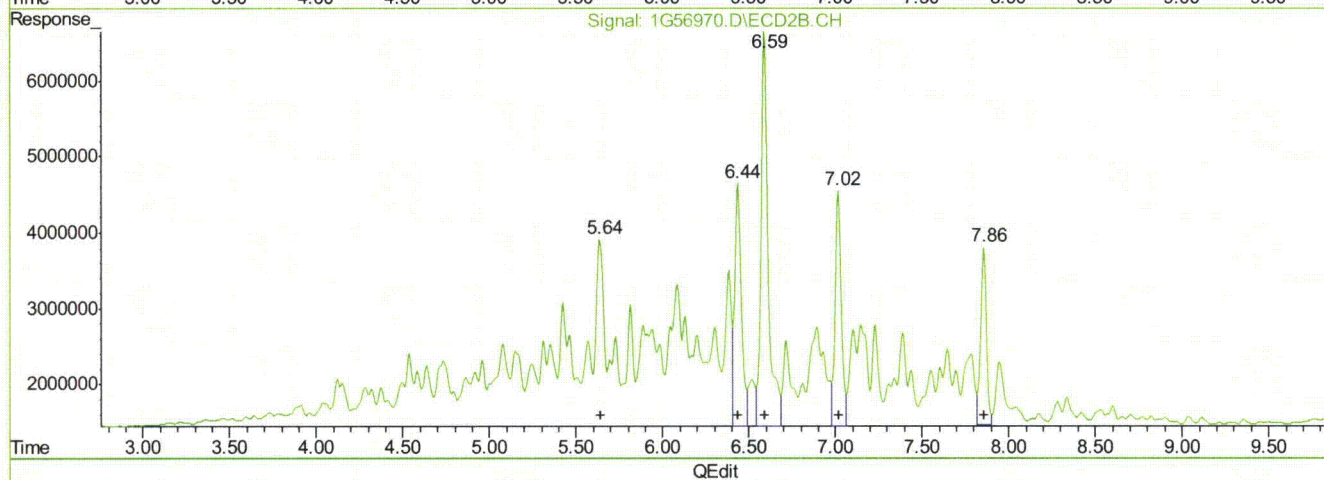
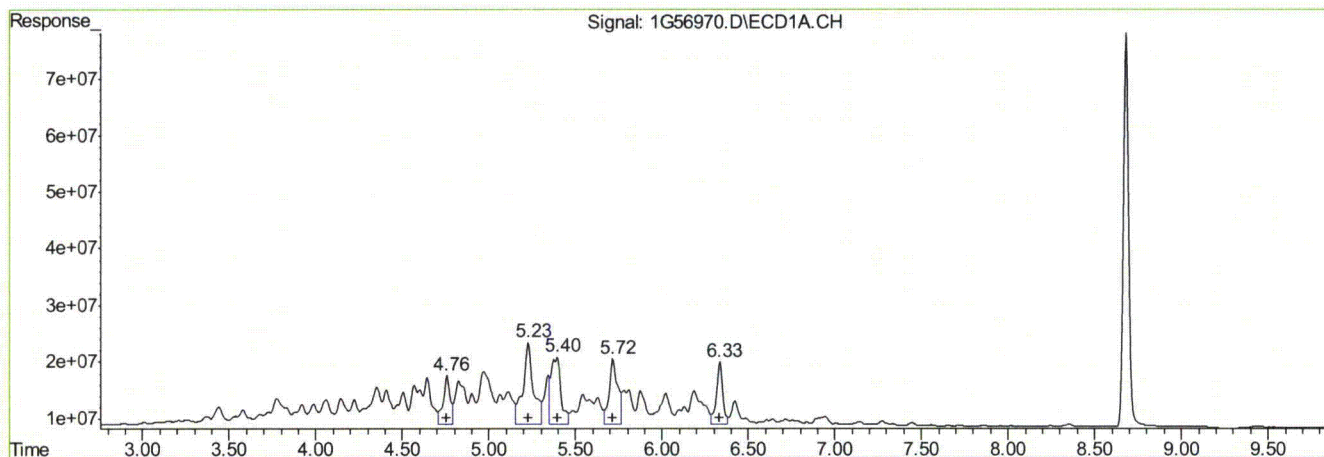
10.6.12.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56970.D\ECD1A.CH Vial: 14  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56970.D\ECD2B.CH  
Acq On : 9-21-10 08:37:38 PM Operator: owenm  
Sample : icv2096-500 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 9:41 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:41:02 2010  
Response via : Multiple Level Calibration



## (24) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
4.76	241930070	491.84
5.23	599855488	505.51
5.40	471476668	495.28
5.72	393526173	430.70
6.34	280587621	375.50

## (24) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
5.64	76927020	550.77
6.44	86260243	465.28
6.59	149951655	404.86
7.02	77512473	394.97
7.86	55443622	372.76

(+) = Expected Retention Time

1G56970.D 1PST2096.M

Wed Sep 22 09:42:03 2010

RPT1

Cheng-Hwan Ao  
09/24/10 12:21

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56971.D\ECD1A.CH Vial: 15  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56971.D\ECD2B.CH  
Acq On : 9-21-10 08:52:31 PM Operator: owenm  
Sample : icv2096-500 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 9:39 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:41:02 2010  
Response via : Initial Calibration  
DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
----------	------	------	--------	--------	-----	-----

## System Monitoring Compounds

## Target Compounds

29)	Chlordane {A}	2.96	3.63	830.1E6	198.7E6	415.179	417.050
30)	Chlordane {B}	3.37	4.18	614.8E6	144.5E6	479.133	525.915
31)	Chlordane {C}	4.02	4.99	2094.8E6	477.0E6	447.710	463.359
32)	Chlordane {D}	4.16	5.19	3308.4E6	780.5E6	423.363	427.392m
33)	Chlordane {E}	5.15	6.53	486.3E6	116.0E6	444.413	498.078

(f)=RT Delta &gt; 1/2 Window

1G56971.D 1PST2096.M

Wed Sep 22 09:40:10 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56971.D\ECD1A.CH Vial: 15  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56971.D\ECD2B.CH  
Acq On : 9-21-10 08:52:31 PM Operator: owenm  
Sample : icv2096-500 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 9:39 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:41:02 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

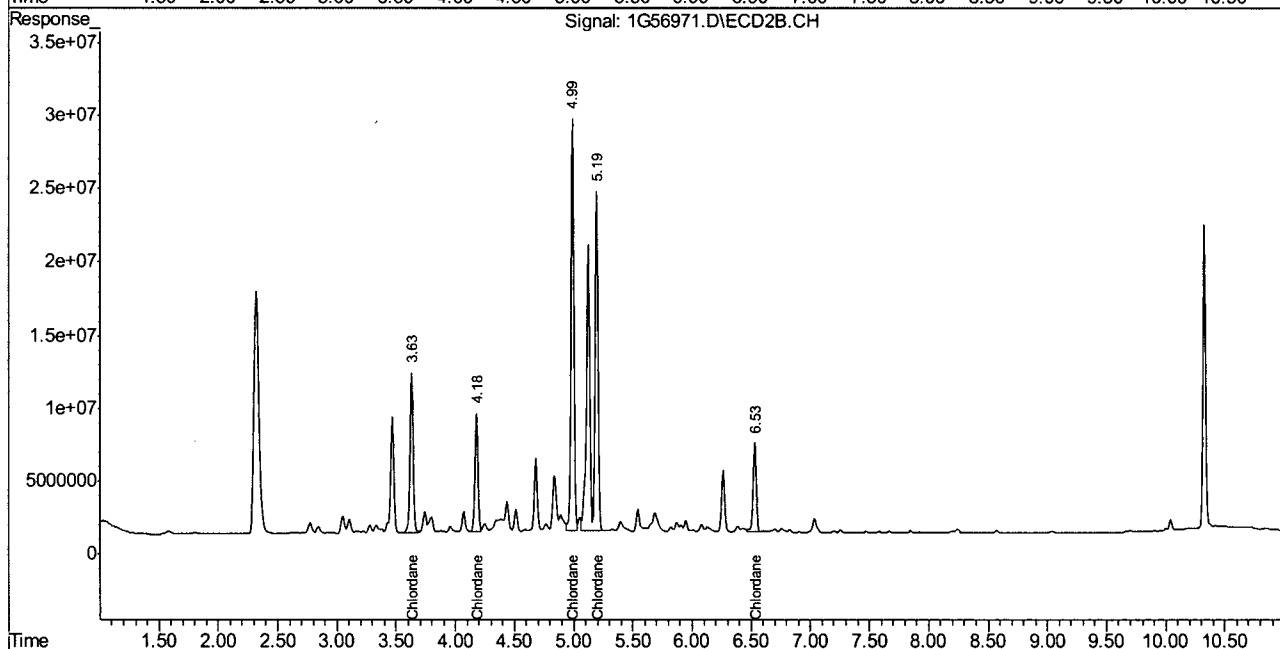
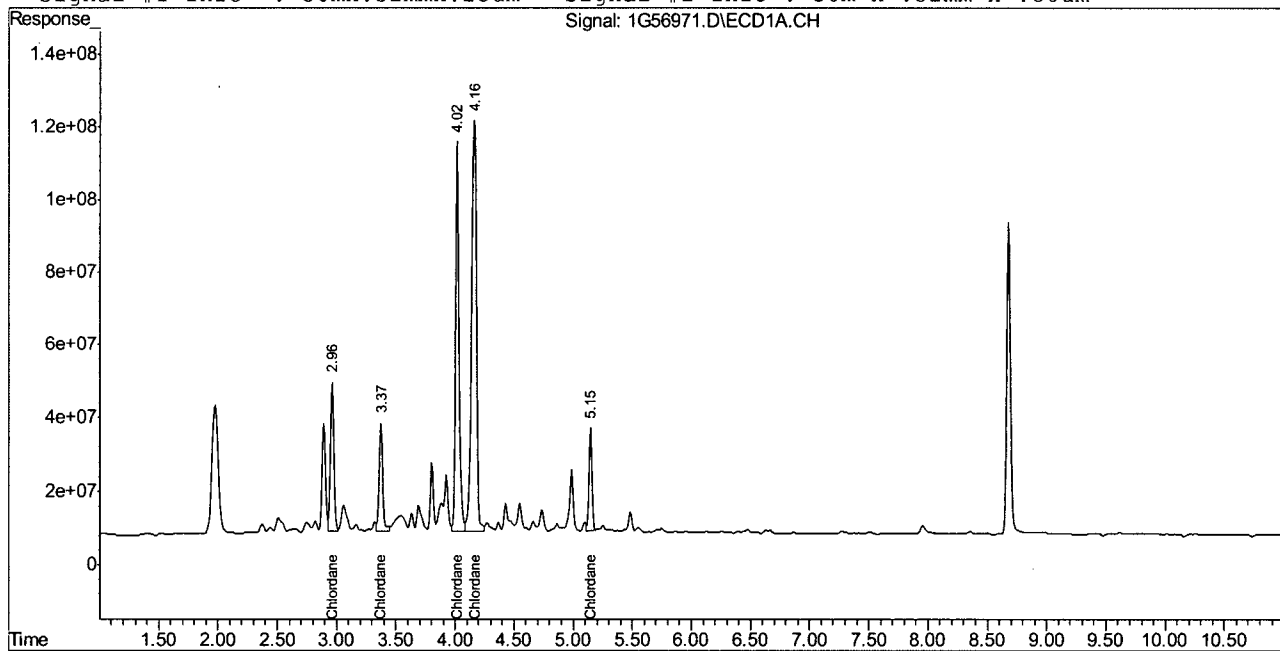
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G56971.D 1PST2096.M Wed Sep 22 09:40:11 2010 RPT1

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** G1G2096-ICV2096      **Method:** SW846 8081A  
**Lab FileID:** 1G56971.D      **Analyst approved:** 09/24/10 09:42 Owen McKenna  
**Injection Time:** 09/21/10 20:52      **Supervisor approved:** 09/24/10 12:21 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	5.19	Split peak

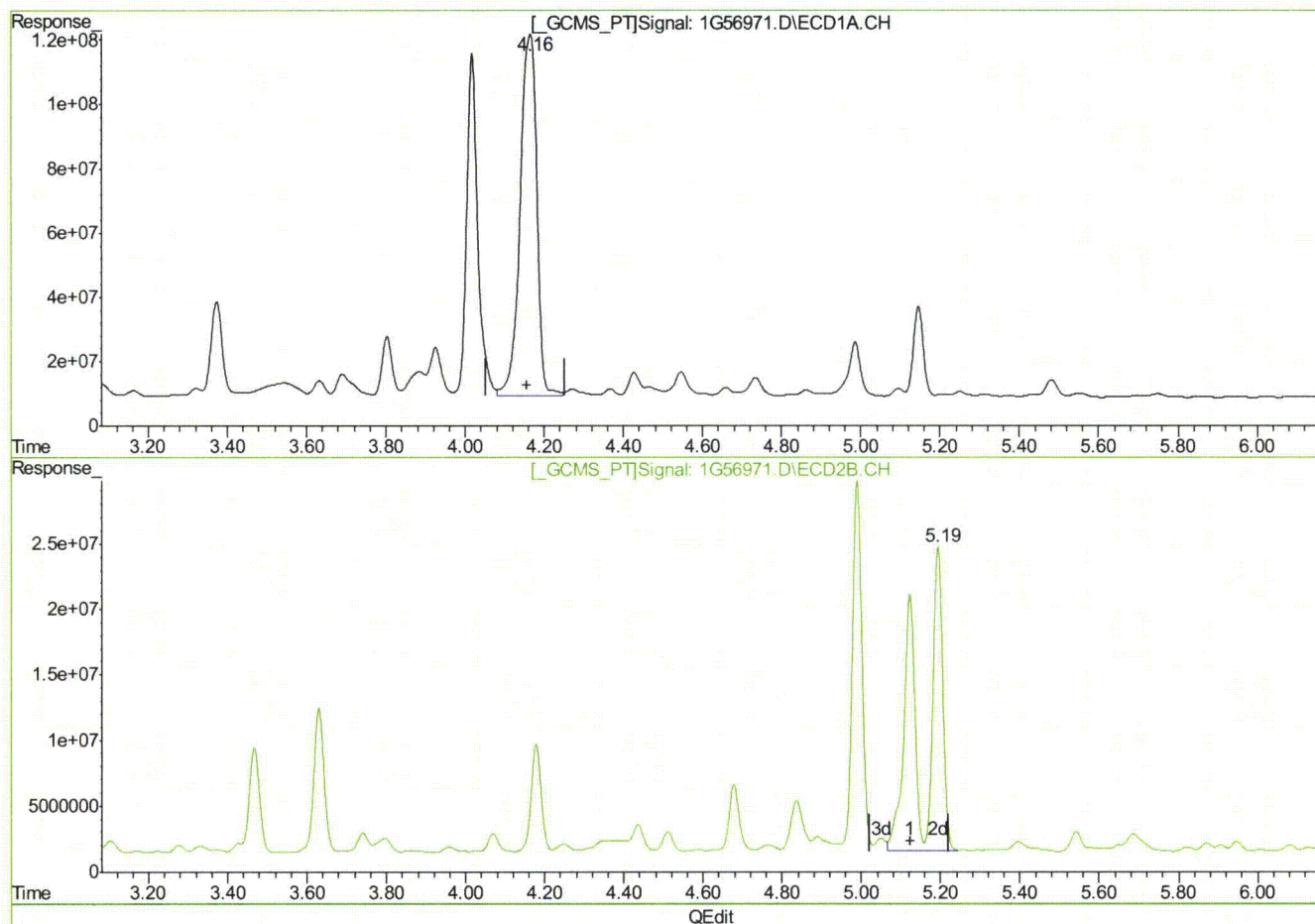
10.6.13.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G2096\1G56971.D\ECD1A.CH Vial: 15  
Signal #2 : C:\MSDCHEM\1\DATA\1G2096\1G56971.D\ECD2B.CH  
Acq On : 9-21-10 08:52:31 PM Operator: owenm  
Sample : icv2096-500 Inst : GC1G  
Misc : op45718,glg2096,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 22 9:39 2010 Quant Results File: 1PST2096.RES

Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Sep 22 08:41:02 2010  
Response via : Multiple Level Calibration



(32) Chlordane {D}  
4.16min 423.363PPB  
response 3308420922

(32) Chlordane {D} #2  
5.19min 427.392PPB m  
response 780453523

(+) = Expected Retention Time

1G56971.D 1PST2096.M

Wed Sep 22 09:39:54 2010

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58163.D\ECD1A.CH Vial: 21  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58163.D\ECD2B.CH  
 Acq On : 10-26-10 04:18:34 PM Operator: owenm  
 Sample : cc2096-10 Inst : GC1G  
 Misc : op46336,glg2122,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 26 16:33 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Oct 20 16:45:53 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.97	2.29	207.6E6	71616813	9.432	9.974
Spiked Amount	40.000	Range	30 - 150	Recovery =	23.58%#	24.94%#
34) SA Decachlorobiphen	8.64	10.27	315.5E6	49019877	10.029	8.863
Spiked Amount	40.000	Range	30 - 150	Recovery =	25.07%#	22.16%#
Target Compounds						
2) Hexachlorobenzen	2.21	2.67	383.5E6	87266836	8.560	9.336
3) A alpha-BHC	2.32	2.77	444.0E6	93753438	11.191	10.067
4) MA gamma-BHC	2.55	3.10	401.4E6	86984353	11.201	10.007
5) MA Heptachlor	2.94	3.58	433.4E6	89519203	11.021	10.005
6) B beta-BHC	2.61	3.16	167.4E6	42299604	10.378	9.533
7) B delta-BHC	2.76	3.48	329.8E6	67540984	12.070	10.857
8) MB Aldrin	3.22	3.96	414.2E6	82061071	11.050	9.819
9) B Heptachlor Epoxi	3.85	4.67	387.1E6	78267594	11.060	9.756
10) B gamma-Chlordane	3.99	4.92	377.5E6	78067267	10.691	9.573
11) B alpha-Chlordane	4.14	5.13	352.9E6	76743087	10.412	9.586
12) A Endosulfan I	4.31	5.20	375.9E6	71694577	10.877	9.581
13) B 4,4'-DDE	4.24	5.37	369.9E6	72254894	10.710	9.384
14) MA Dieldrin	4.61	5.60	398.3E6	75262808	11.046	9.532
15) MA Endrin	4.90	6.05	378.2E6	70230263	12.063	10.348
16) A 4,4'-DDD	5.01	6.24	284.4E6	56734261	10.576	9.113
17) B Endosulfan II	5.21	6.37	335.9E6	65379920	11.029	9.656
18) MA 4,4'-DDT	5.40	6.74	279.3E6	55024049	11.727	10.321
19) B Endrin Aldehyde	5.80	6.91	268.3E6	52434376	10.412	8.804
20) B Endosulfan Sulfa	6.46	7.37	241.7E6	48783614	12.037	10.576
21) A Methoxychlor	6.16	7.91	156.0E6	30953016	12.085	10.404
22) Mirex	6.28	8.19	244.1E6	51227281	10.661	9.241
23) B Endrin Ketone	6.88	8.25	335.3E6	62621636	12.259	10.302

(f)=RT Delta &gt; 1/2 Window

1G58163.D 1PST2096.M

Tue Oct 26 16:33:40 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58163.D\ECD1A.CH Vial: 21  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58163.D\ECD2B.CH  
Acq On : 10-26-10 04:18:34 PM Operator: owenm  
Sample : cc2096-10 Inst : GC1G  
Misc : op46336,glg2122,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 26 16:33 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

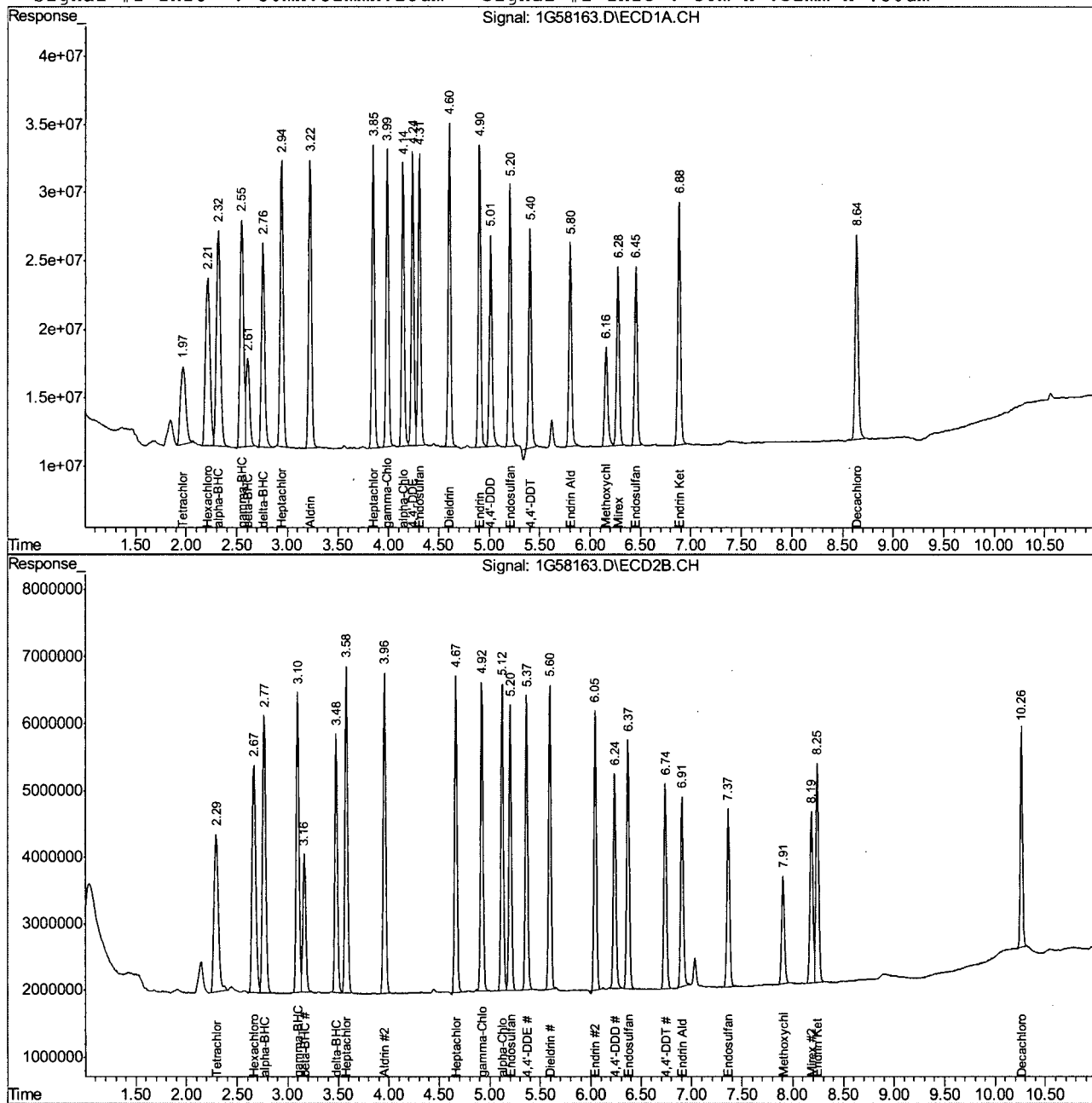
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Phase: RTX-CLP I

Signal #2 Info : 30m x .32mm x .50um



1G58163.D 1PST2096.M

Tue Oct 26 16:33:40 2010

RPT1

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58174.D\ECD1A.CH Vial: 32  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58174.D\ECD2B.CH  
 Acq On : 10-26-10 07:36:50 PM Operator: owenm  
 Sample : cc2096-25 Inst : GC1G  
 Misc : op46260,glg2122,50,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 27 8:21 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Oct 20 16:45:53 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.97	2.29	557.9E6	188.5E6	25.347	26.247
Spiked Amount	40.000	Range	30 - 150	Recovery	=	63.37% 65.62%
34) SA Decachlorobiphen	8.64	10.27	752.4E6	125.1E6	23.920	22.611
Spiked Amount	40.000	Range	30 - 150	Recovery	=	59.80% 56.53%
Target Compounds						
2) Hexachlorobenzen	2.21	2.67	928.5E6	222.4E6	20.723	23.791
3) A alpha-BHC	2.32	2.77	1073.3E6	254.1E6	27.053	27.288
4) MA gamma-BHC	2.55	3.10	953.2E6	232.0E6	26.599	26.694
5) MA Heptachlor	2.94	3.58	1014.2E6	235.1E6	25.789	26.272
6) B beta-BHC	2.61	3.17	420.4E6	109.9E6	26.056	24.772
7) B delta-BHC	2.76	3.48	749.0E6	166.9E6	27.411	26.827
8) MB Aldrin	3.23	3.96	989.3E6	224.2E6	26.393	26.826
9) B Heptachlor Epoxi	3.85	4.67	919.2E6	212.6E6	26.261	26.500
10) B gamma-Chlordane	3.99	4.93	908.0E6	214.1E6	25.716	26.258
11) B alpha-Chlordane	4.15	5.13	876.5E6	205.6E6	25.861	25.677
12) A Endosulfan I	4.31	5.21	915.0E6	194.0E6	26.475	25.922
13) B 4,4'-DDE	4.24	5.37	857.4E6	200.4E6	24.825	26.029
14) MA Dieldrin	4.61	5.60	956.4E6	210.9E6	26.522	26.711
15) MA Endrin	4.91	6.05	869.4E6	185.4E6	27.732	27.311
16) A 4,4'-DDD	5.02	6.24	666.7E6	148.5E6	24.790	23.849
17) B Endosulfan II	5.21	6.38	781.2E6	173.7E6	25.649	25.660
18) MA 4,4'-DDT	5.41	6.74	634.1E6	138.6E6	26.623	25.996
19) B Endrin Aldehyde	5.81	6.91	653.1E6	140.0E6	25.340	23.498
20) B Endosulfan Sulfa	6.46	7.37	509.1E6	106.9E6	25.353	23.180
21) A Methoxychlor	6.17	7.91	307.9E6	73499527	23.855	24.704
22) Mirex	6.28	8.19	602.3E6	131.6E6	26.299	23.749
23) B Endrin Ketone	6.89	8.25	738.5E6	149.7E6	27.002	24.630

(f)=RT Delta &gt; 1/2 Window

1G58174.D 1PST2096.M Wed Oct 27 08:21:50 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58174.D\ECD1A.CH Vial: 32  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58174.D\ECD2B.CH  
Acq On : 10-26-10 07:36:50 PM Operator: owenm  
Sample : cc2096-25 Inst : GC1G  
Misc : op46260,glg2122,50,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 27 8:21 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

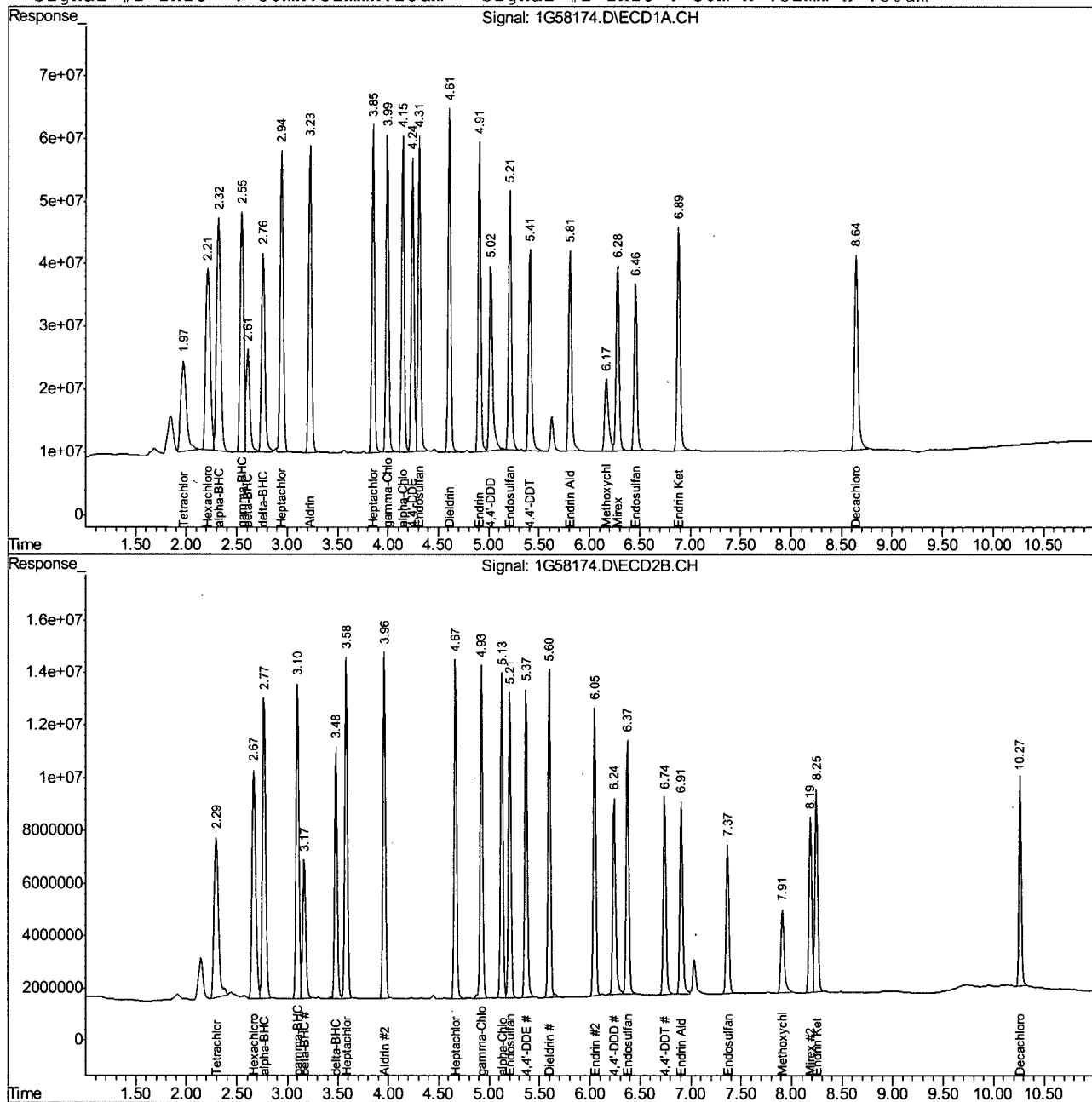
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #2 Phase: RTX-CLP I

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Info : 30m x .32mm x .50um



1G58174.D 1PST2096.M

Wed Oct 27 08:21:50 2010

RPT1

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58182.D\ECD1A.CH Vial: 40  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58182.D\ECD2B.CH  
 Acq On : 10-26-10 09:53:52 PM Operator: owenm  
 Sample : ecc2096-10 Inst : GC1G  
 Misc : op46336,glg2122,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 27 8:24 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Wed Oct 20 16:45:53 2010  
 Response via : Initial Calibration  
 DataAcq Meth : 1PST2096.M

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachloro-m-xy	1.97	2.29	230.8E6	79034484	10.484	11.007
Spiked Amount	40.000	Range	30 - 150	Recovery =	26.21%#	27.52%#
34) SA Decachlorobiphen	8.64	10.27	315.1E6	59822972	10.017	10.816
Spiked Amount	40.000	Range	30 - 150	Recovery =	25.04%#	27.04%#
Target Compounds						
2) Hexachlorobenzen	2.21	2.67	399.3E6	93924956	8.912	10.049
3) A alpha-BHC	2.32	2.77	451.6E6	98090336	11.383	10.532
4) MA gamma-BHC	2.55	3.10	399.9E6	89933903	11.158	10.346
5) MA Heptachlor	2.94	3.58	422.1E6	87585253	10.734	9.789
6) B beta-BHC	2.61	3.16	173.2E6	45877460	10.733	10.340
7) B delta-BHC	2.76	3.48	312.9E6	66117569	11.451	10.628
8) MB Aldrin	3.22	3.96	424.6E6	83617754	11.326	10.005
9) B Heptachlor Epoxi	3.85	4.67	398.2E6	82127647	11.375	10.237
10) B gamma-Chlordane	3.99	4.92	393.3E6	83197424	11.139	10.202
11) B alpha-Chlordane	4.15	5.13	379.1E6	80853793	11.185	10.099
12) A Endosulfan I	4.31	5.21	393.9E6	75970757	11.397	10.153
13) B 4,4'-DDE	4.24	5.37	364.1E6	75496813	10.541	9.805
14) MA Dieldrin	4.61	5.60	411.3E6	81017672	11.406	10.260
15) MA Endrin	4.91	6.05	355.3E6	68826233	11.334	10.141
16) A 4,4'-DDD	5.02	6.24	289.8E6	60084799	10.778	9.651
17) B Endosulfan II	5.21	6.37	333.6E6	69062711	10.953	10.199
18) MA 4,4'-DDT	5.41	6.74	213.8E6	44037076	8.978	8.260
19) B Endrin Aldehyde	5.81	6.91	279.6E6	56912349	10.848	9.556
20) B Endosulfan Sulfa	6.46	7.37	212.0E6	43154483	10.556	9.356
21) A Methoxychlor	6.17	7.91	111.7E6	23937702	8.658	8.046
22) Mirex	6.28	8.19	249.2E6	52449571	10.883	9.462
23) B Endrin Ketone	6.89	8.25	320.0E6	60390848	11.701	9.935

(f)=RT Delta &gt; 1/2 Window

1G58182.D 1PST2096.M

Wed Oct 27 08:24:39 2010

(m)=manual int.

RPT1

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G2122\1G58182.D\ECD1A.CH Vial: 40  
Signal #2 : C:\MSDCHEM\1\DATA\1G2122\1G58182.D\ECD2B.CH  
Acq On : 10-26-10 09:53:52 PM Operator: owenm  
Sample : ecc2096-10 Inst : GC1G  
Misc : op46336,glg2122,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 27 8:24 2010 Quant Results File: 1PST2096.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST2096.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Wed Oct 20 16:45:53 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 1PST2096.M

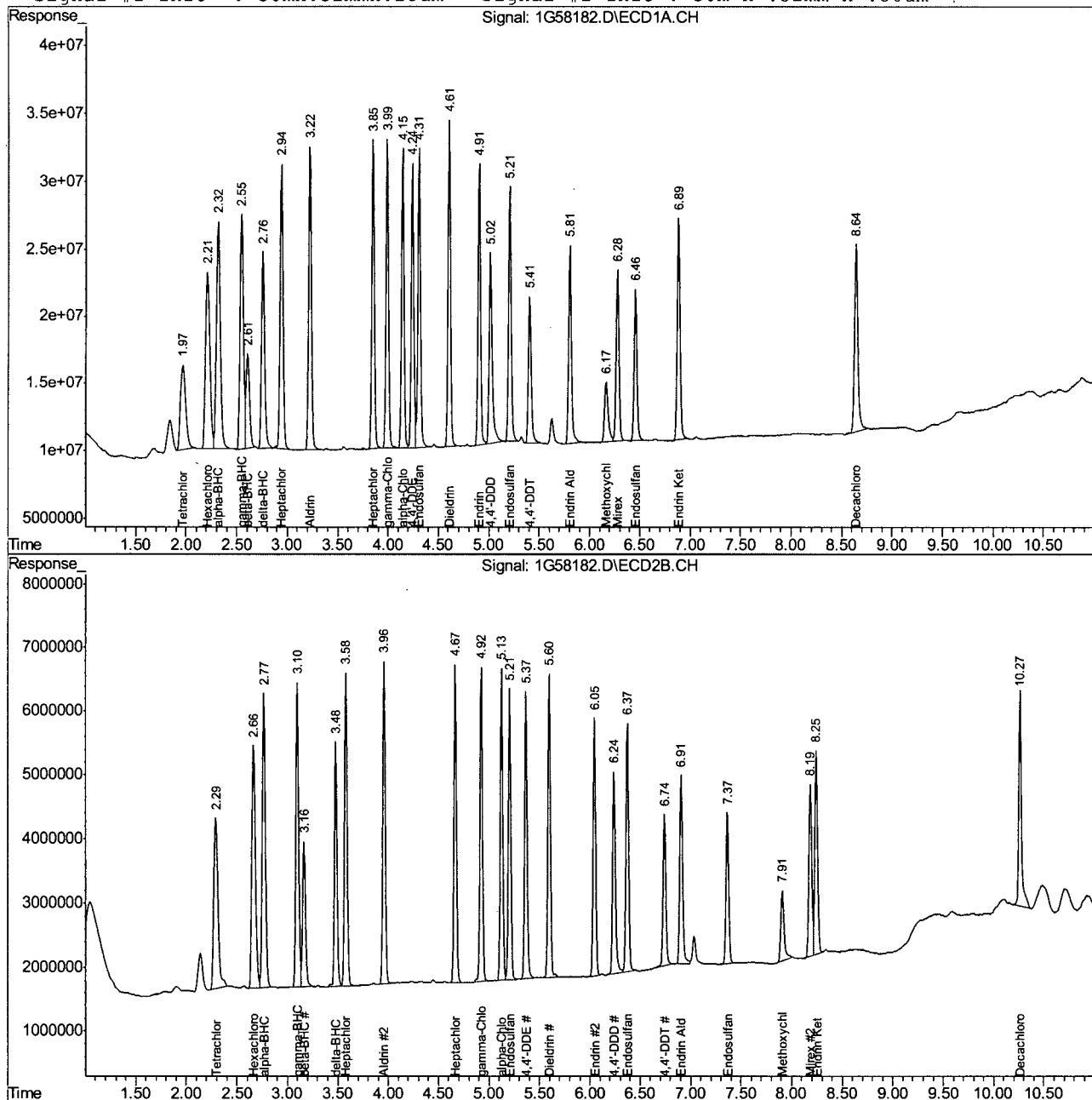
Volume Inj. : 1ul/column

Signal #1 Phase : RTXCLP II

Signal #1 Info : 30mx.32mmx.25um

Signal #2 Phase: RTX-CLP I

Signal #2 Info : 30m x .32mm x .50um



1G58182.D 1PST2096.M

Wed Oct 27 08:24:39 2010

RPT1

Page 2

10.6.16 10

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49419.D\ECD1A.CH Vial: 22  
 Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49419.D\ECD2B.CH  
 Acq On : 9-24-2010 05:53:30 PM Operator: toyar  
 Sample : IC1826-1000, Ar1221 Inst : GC3G  
 Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Sep 27 11:02:43 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Sep 27 11:02:40 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.19	1236.0E6	929.4E6	49.240	49.311
Spiked Amount 40.000			Recovery	=	123.10%	123.28%
51) S Decachlorobiphen	9.05	9.29	1060.0E6	637.7E6	45.555	43.606
Spiked Amount 40.000			Recovery	=	113.89%	109.02%
Target Compounds						
2) AR1221-A	1.84	1.80	162.0E6	126.1E6	1000.000	1000.000
3) AR1221-B	2.48	2.44	233.2E6	160.9E6	1000.000	1000.000
4) AR1221-C	2.68	2.64	730.3E6	421.9E6	1000.000	1000.000
5) AR1221-D	3.21	3.05	69257246	61320048	1000.000	1000.000
6) AR1221-E	3.58	3.56	108.4E6	67593967	1000.000	1000.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G49419.D PCB1826.M Wed Sep 29 16:43:31 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49419.D\ECD1A.CH Vial: 22  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49419.D\ECD2B.CH  
Acq On : 9-24-2010 05:53:30 PM Operator: toyar  
Sample : IC1826-1000, Ar1221 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:02 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:02:40 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

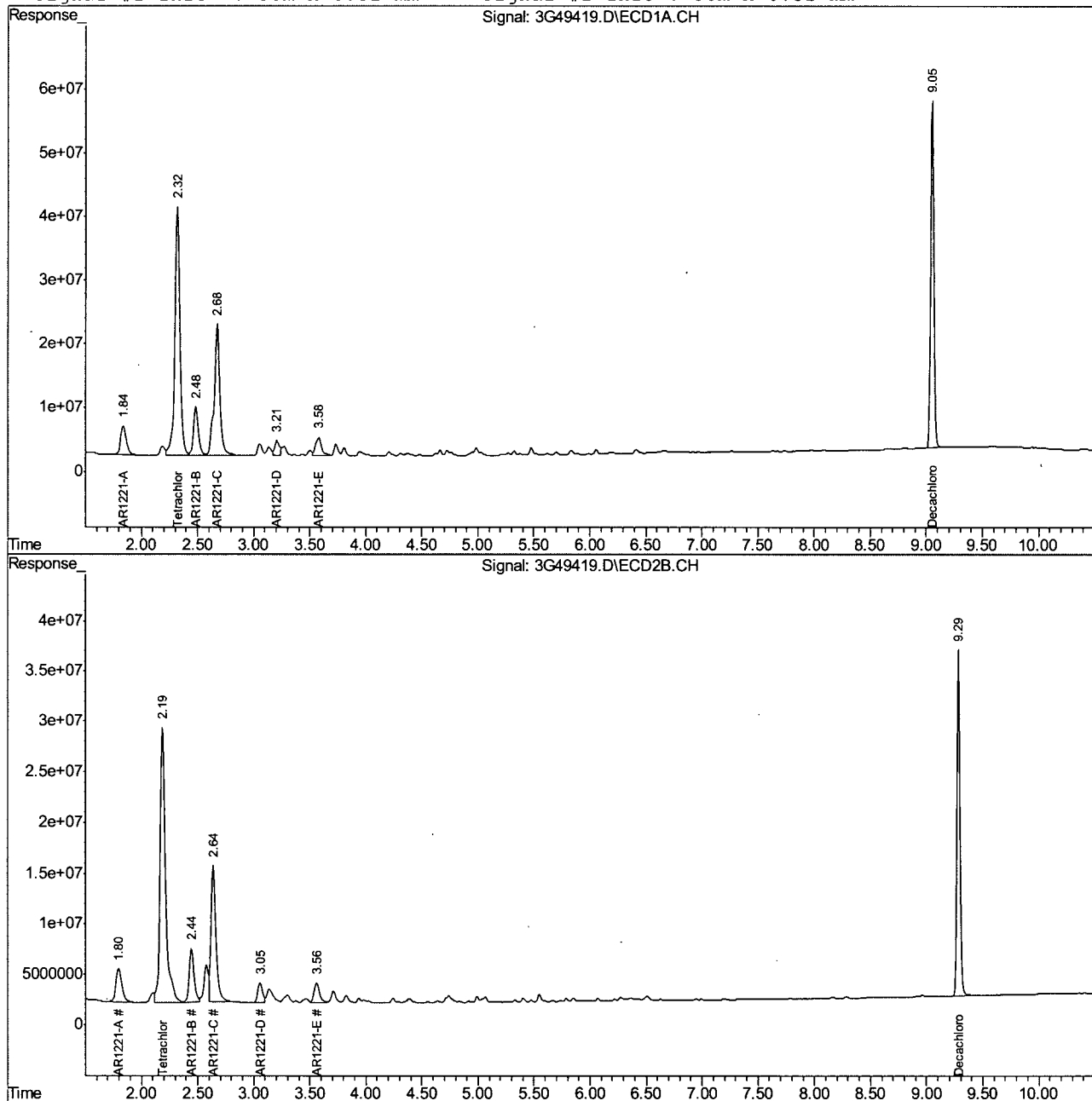
Volume Inj. : 1ul

Signal #1 Phase : RTX-CLP1

Signal #2 Phase: RTX-CLP2

Signal #1 Info : 30m X 0.32 mm

Signal #2 Info : 30m X 0.32 mm



3G49419.D PCB1826.M

Wed Sep 29 16:43:32 2010

GC3G

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49420.D\ECD1A.CH Vial: 23  
 Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49420.D\ECD2B.CH  
 Acq On : 9-24-2010 06:08:34 PM Operator: toyar  
 Sample : IC1826-1000, Ar1232 Inst : GC3G  
 Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Sep 27 11:04:53 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Sep 27 11:04:51 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.19	956.2E6	706.9E6	39.947	39.445
Spiked Amount 40.000			Recovery	=	99.87%	98.61%
51) S Decachlorobiphen	9.05	9.29	833.9E6	493.7E6	37.349	35.203
Spiked Amount 40.000			Recovery	=	93.37%	88.01%
Target Compounds						
7) AR1232-A	2.68	2.64	623.9E6	383.5E6	1000.000	1000.000
8) AR1232-B	3.05	3.05	421.3E6	290.2E6	1000.000	1000.000
9) AR1232-C	3.58	3.56	940.0E6	589.9E6	1000.000	1000.000
10) AR1232-D	3.73	3.71	343.6E6	252.4E6	1000.000	1000.000
11) AR1232-E	4.21	4.24	323.1E6	155.7E6	1000.000	1000.000

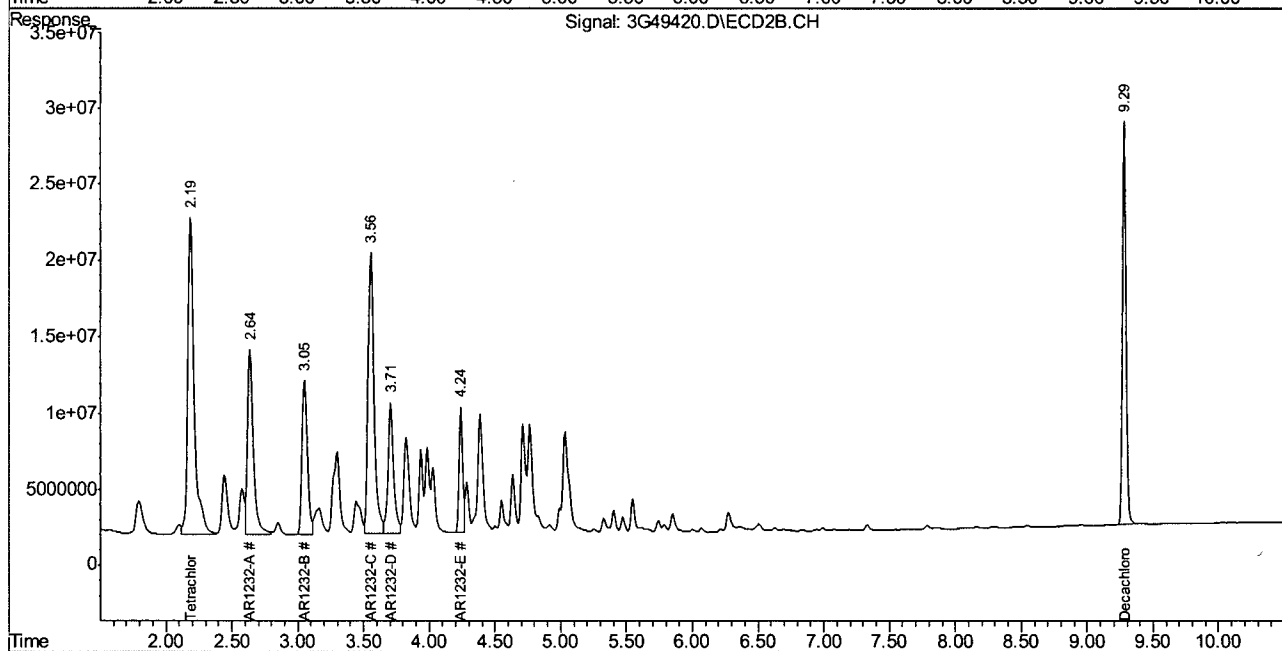
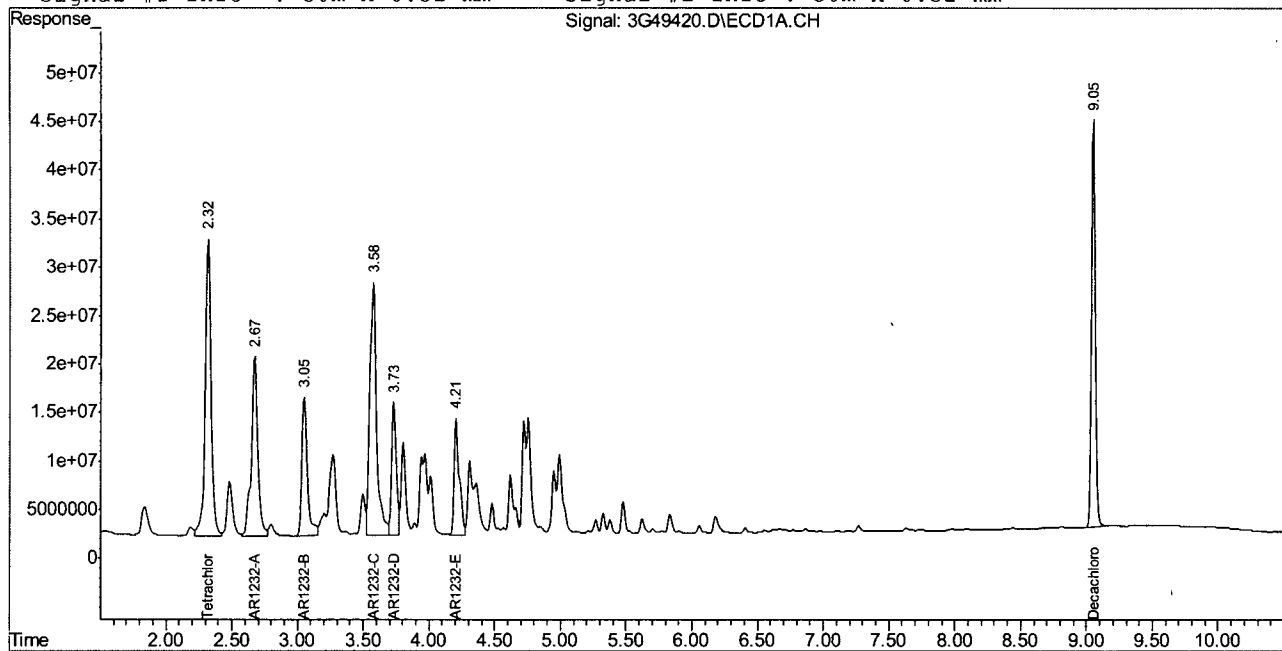
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G49420.D PCB1826.M Mon Sep 27 11:05:10 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49420.D\ECD1A.CH Vial: 23  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49420.D\ECD2B.CH  
Acq On : 9-24-2010 06:08:34 PM Operator: toyar  
Sample : IC1826-1000, Ar1232 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:05 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:04:51 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G49420.D PCB1826.M

Mon Sep 27 11:05:10 2010

GC3G

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49421.D\ECD1A.CH Vial: 24  
 Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49421.D\ECD2B.CH  
 Acq On : 9-24-2010 06:23:37 PM Operator: toyar  
 Sample : IC1826-1000, Ar1242 Inst : GC3G  
 Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Sep 27 11:06:30 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Sep 27 11:06:23 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.19	1015.5E6	741.1E6	42.424	41.352
Spiked Amount 40.000			Recovery	=	106.06%	103.38%
51) S Decachlorobiphen	9.05	9.29	922.5E6	538.5E6	41.318	38.395
Spiked Amount 40.000			Recovery	=	103.30%	95.99%
Target Compounds						
12) AR1242-A	3.05	3.05	733.9E6	505.1E6	1056.484	1029.100
13) AR1242-B	3.58	3.56	1721.9E6	1081.6E6	1096.920	1039.585
14) AR1242-C	3.73	3.70	635.3E6	459.5E6	1083.800	1021.548
15) AR1242-D	4.21	4.24	654.1E6	318.6E6	1076.732	1021.189
16) AR1242-E	4.76	4.76	575.4E6	377.9E6	1332.003	1213.861

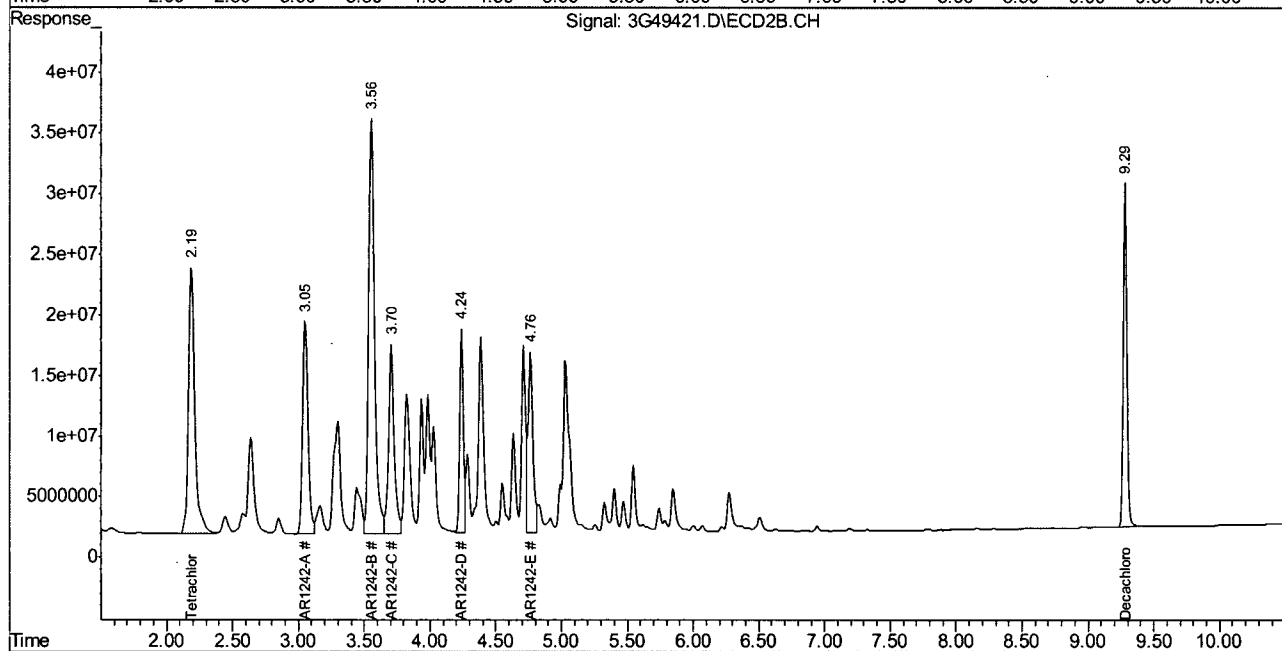
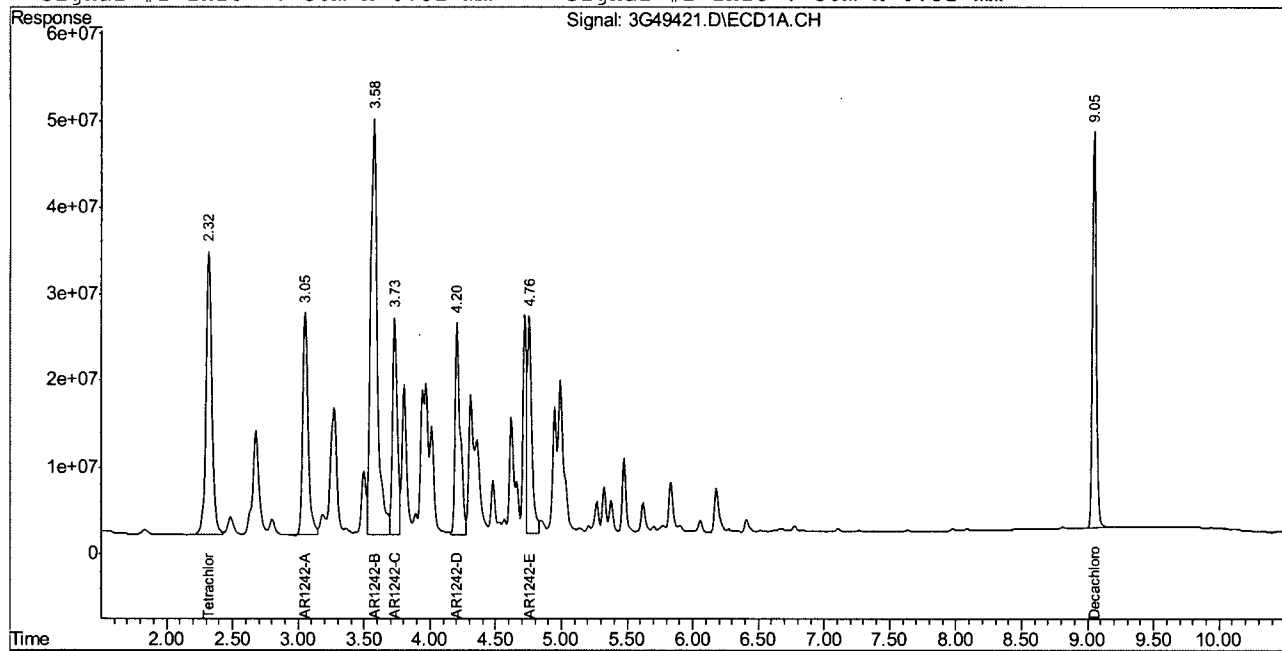
-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G49421.D PCB1826.M Mon Sep 27 11:06:53 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49421.D\ECD1A.CH Vial: 24  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49421.D\ECD2B.CH  
Acq On : 9-24-2010 06:23:37 PM Operator: toyar  
Sample : IC1826-1000, Ar1242 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:06 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:06:23 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G49421.D PCB1826.M

Mon Sep 27 11:06:53 2010

GC3G

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49422.D\ECD1A.CH Vial: 25  
 Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49422.D\ECD2B.CH  
 Acq On : 9-24-2010 06:38:43 PM Operator: toyar  
 Sample : IC1826-1000, Ar1248 Inst : GC3G  
 Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Sep 27 11:08:42 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Sep 27 11:08:39 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.19	1019.9E6	733.6E6	42.141	40.682
Spiked Amount 40.000			Recovery	=	105.35%	101.71%
51) S Decachlorobiphen	9.05	9.29	949.3E6	550.5E6	41.623	38.602
Spiked Amount 40.000			Recovery	=	104.06%	96.50%
Target Compounds						
17) AR1248-A	3.05	3.05	325.2E6	232.0E6	1000.000	1000.000
18) AR1248-B	3.58	3.56	917.2E6	632.7E6	1000.000	1000.000
19) AR1248-C	3.94	3.94	578.1E6	390.1E6	1000.000	1000.000
20) AR1248-D	4.20	4.24	1028.6E6	512.8E6	1000.000	1000.000
21) AR1248-E	4.72	4.71	897.2E6	615.6E6	1000.000	1000.000
22) AR1248-F	4.99	5.03	1058.3E6	824.6E6	1000.000	1000.000

-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G49422.D PCB1826.M Mon Sep 27 11:09:00 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49422.D\ECD1A.CH Vial: 25  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49422.D\ECD2B.CH  
Acq On : 9-24-2010 06:38:43 PM Operator: toyar  
Sample : IC1826-1000, Ar1248 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:08 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:08:39 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

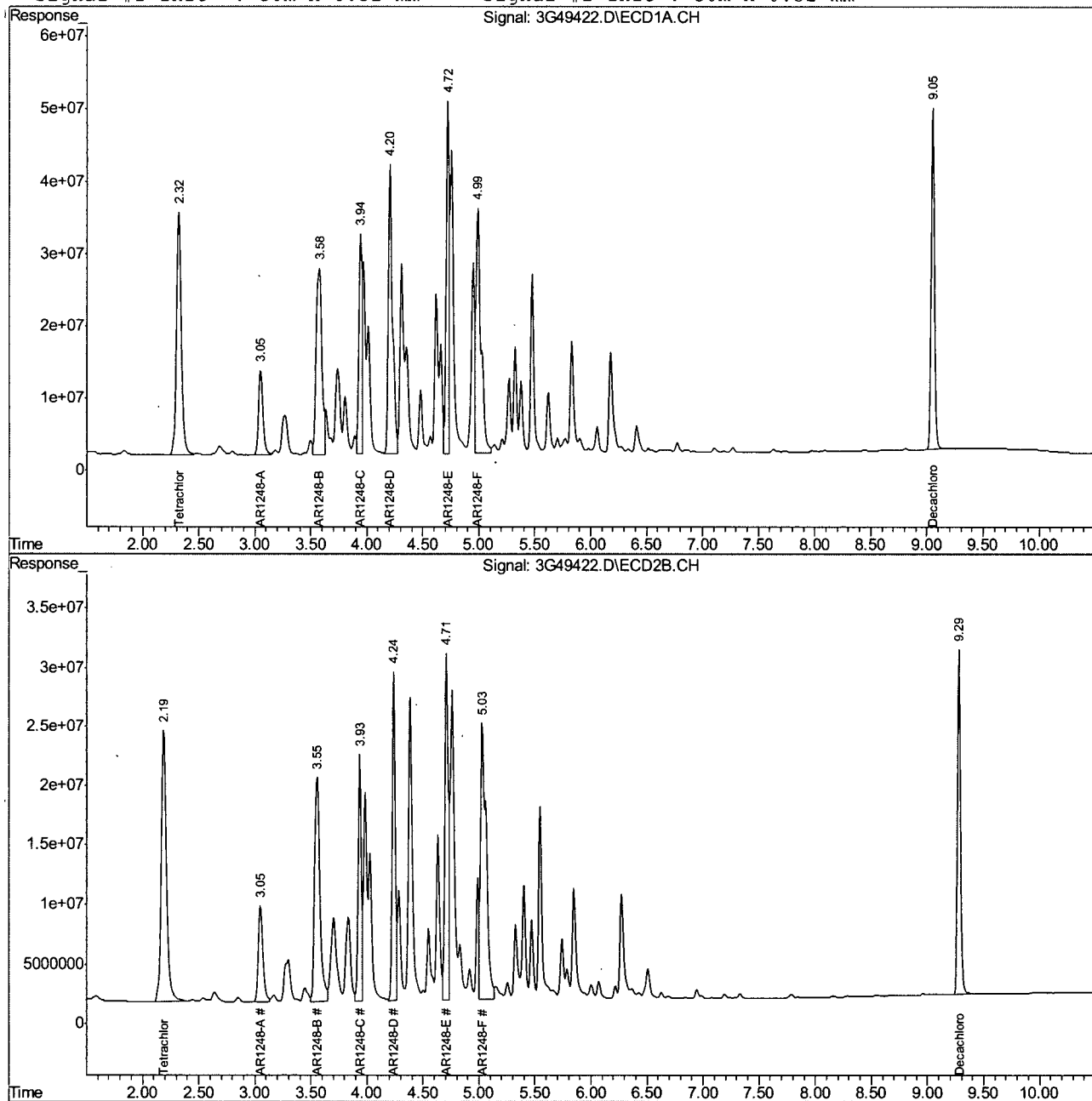
Volume Inj. : 1ul

Signal #1 Phase : RTX-CLP1

Signal #2 Phase: RTX-CLP2

Signal #1 Info : 30m X 0.32 mm

Signal #2 Info : 30m X 0.32 mm



## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49423.D\ECD1A.CH Vial: 26  
 Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49423.D\ECD2B.CH  
 Acq On : 9-24-2010 06:53:55 PM Operator: toyar  
 Sample : IC1826-1000, Ar1254 Inst : GC3G  
 Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Sep 27 11:10:54 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Sep 27 11:10:50 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.19	919.6E6	656.2E6	37.999	36.390
Spiked Amount 40.000			Recovery	=	95.00%	90.98%
51) S Decachlorobiphen	9.05	9.29	972.0E6	561.9E6	42.616	39.396
Spiked Amount 40.000			Recovery	=	106.54%	98.49%
Target Compounds						
23) AR1254-A	4.66	4.74	908.0E6	902.8E6	1177.007	1344.674
24) AR1254-B	4.98	4.99	1193.7E6	698.1E6	1104.668	1066.076
25) AR1254-C	5.32	5.40	878.1E6	545.8E6	1058.783	1051.201
26) AR1254-D	5.47	5.54	1587.2E6	1020.8E6	1076.239	1059.059
27) AR1254-E	5.83	5.84	1319.8E6	726.4E6	1094.675	1057.809
28) AR1254-F	6.06	6.27	1107.6E6	586.3E6	1071.078	1075.497
29) AR1254-G	6.41	6.51	1560.7E6	1033.3E6	1034.643	1046.561

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G49423.D PCB1826.M Mon Sep 27 11:11:15 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49423.D\ECD1A.CH Vial: 26  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49423.D\ECD2B.CH  
Acq On : 9-24-2010 06:53:55 PM Operator: toyar  
Sample : IC1826-1000, Ar1254 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:11 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:10:50 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

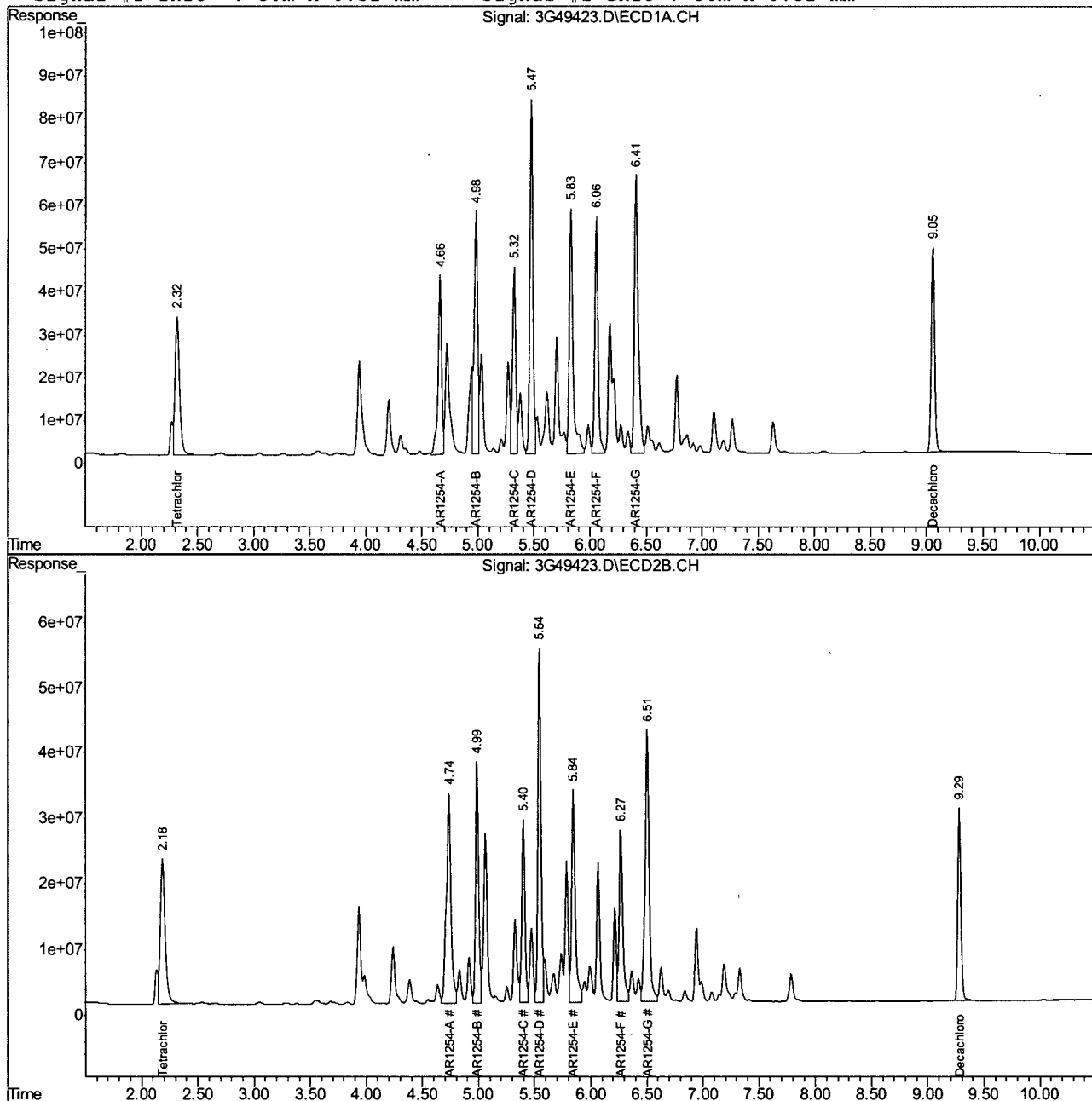
Volume Inj. : 1ul

Signal #1 Phase : RTX-CLP1

Signal #2 Phase: RTX-CLP2

Signal #1 Info : 30m X 0.32 mm

Signal #2 Info : 30m X 0.32 mm



## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49424.D\ECD1A.CH Vial: 27  
 Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49424.D\ECD2B.CH  
 Acq On : 9-24-2010 07:09:00 PM Operator: toyar  
 Sample : IC1826-1000, Ar1262 Inst : GC3G  
 Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Sep 27 11:12:50 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Sep 27 11:12:17 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.19	996.0E6	715.7E6	41.155	39.687
Spiked Amount 40.000			Recovery	=	102.89%	99.22%
50) S Decachlorobiphen	9.05	9.29	938.8E6	541.4E6	41.162	37.961
Spiked Amount 40.000			Recovery	=	102.91%	94.90%
Target Compounds						
40) AR1262-A	6.06	6.07	1313.6E6	710.4E6	1105.566	999.546
41) AR1262-B	6.55	6.63	1773.3E6	1019.9E6	1118.078	1026.934
42) AR1262-C	6.87	6.99	1530.7E6	951.7E6	1083.589	1012.000
43) AR1262-D	7.27	7.33	3315.0E6	1972.4E6	1116.715	1036.545
44) AR1262-E	7.68	7.78	1341.5E6	1341.9E6	1101.905	1048.597

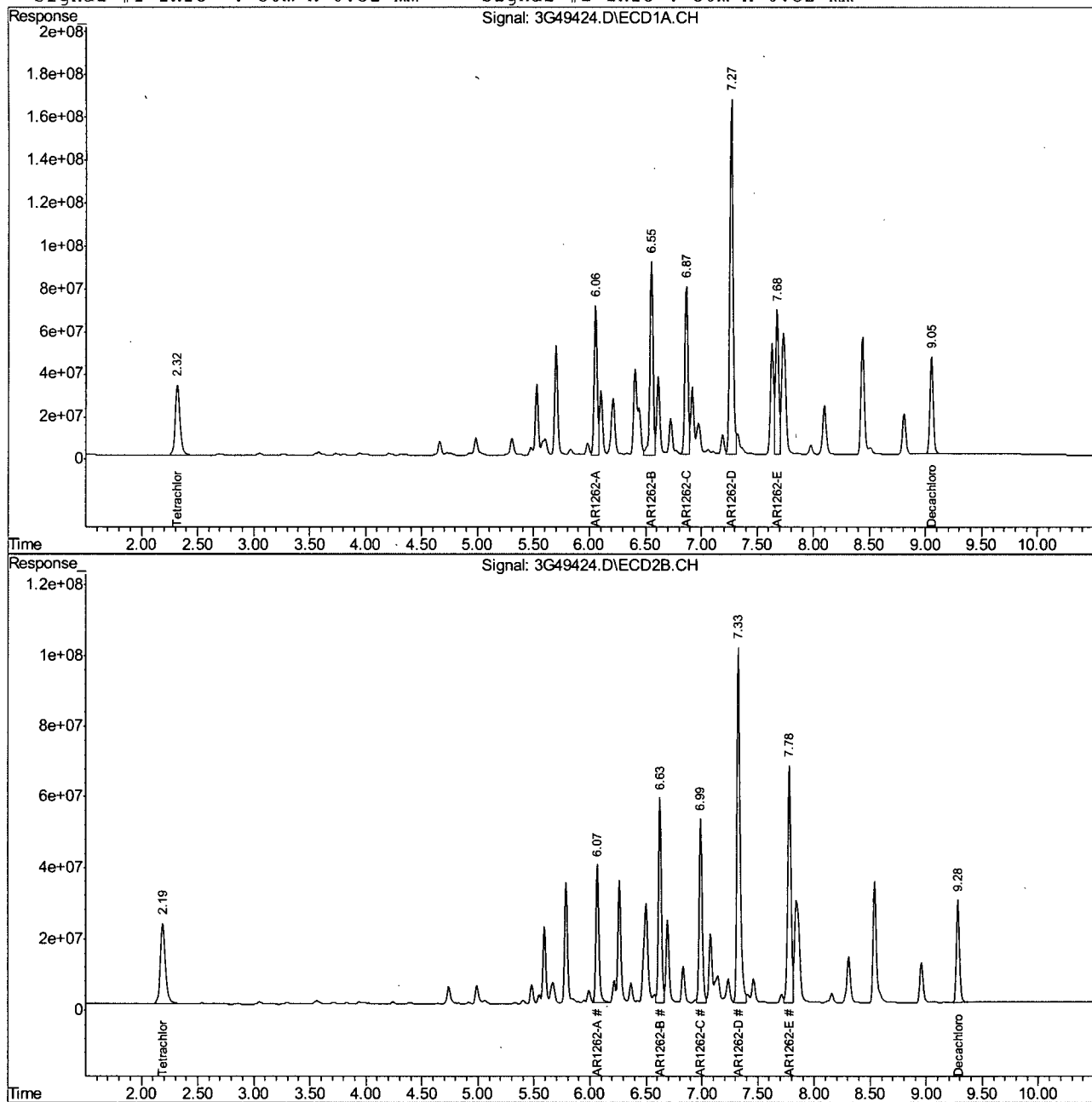
-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G49424.D PCB1826.M Mon Sep 27 11:13:10 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49424.D\ECD1A.CH Vial: 27  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49424.D\ECD2B.CH  
Acq On : 9-24-2010 07:09:00 PM Operator: toyar  
Sample : IC1826-1000, Ar1262 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:12 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:12:17 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G49424.D PCB1826.M

Mon Sep 27 11:13:10 2010

GC3G

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49425.D\ECD1A.CH Vial: 28  
 Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49425.D\ECD2B.CH  
 Acq On : 9-24-2010 07:24:06 PM Operator: toyar  
 Sample : IC1826-1000, Ar1268 Inst : GC3G  
 Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Sep 27 11:17:27 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Sep 27 11:17:24 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.19	1038.5E6	746.2E6	42.775	41.259
Spiked Amount 40.000			Recovery	=	106.94%	103.15%
50) S Decachlorobiphen	9.05	9.29	2429.0E6	1409.2E6	83.837	78.995
Spiked Amount 40.000			Recovery	=	209.59%	197.49%
Target Compounds						
45) AR1268-A	7.68	7.78	3664.3E6	2160.9E6	1000.000	1000.000
46) AR1268-B	7.73	7.84	4215.7E6	2424.0E6	1000.000	1000.000
47) AR1268-C	7.98	8.16	2979.6E6	1673.8E6	1000.000	1000.000
48) AR1268-D	8.44	8.54	1156.1E6	660.2E6	1000.000	1000.000
49) AR1268-E	8.81	8.96	8151.8E6	4800.0E6	1000.000	1000.000

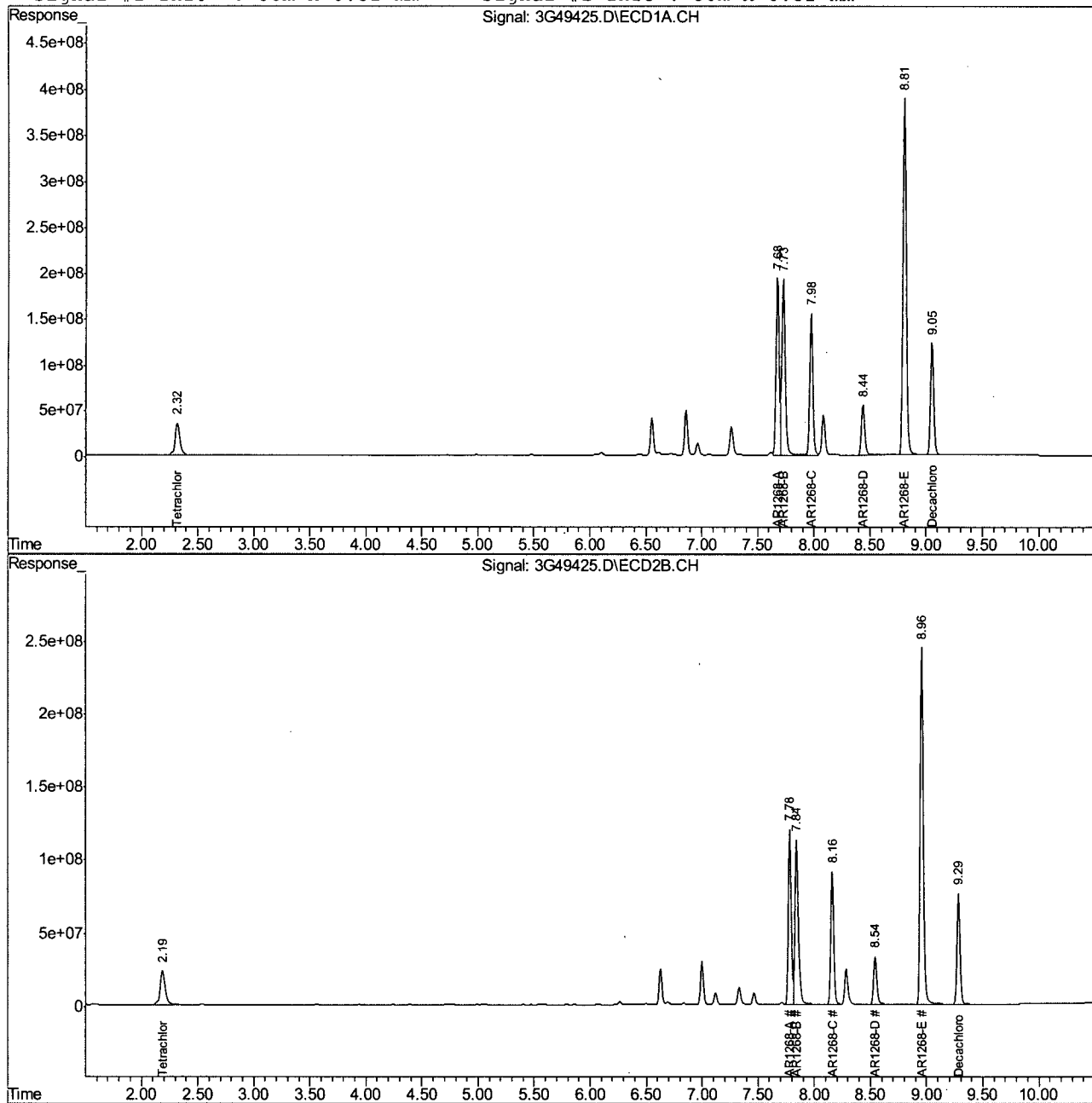
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G49425.D PCB1826.M Mon Sep 27 11:17:40 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49425.D\ECD1A.CH Vial: 28  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49425.D\ECD2B.CH  
Acq On : 9-24-2010 07:24:06 PM Operator: toyar  
Sample : IC1826-1000, Ar1268 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:17 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:17:24 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G49425.D PCB1826.M

Mon Sep 27 11:17:40 2010

GC3G

Page 2

Manual Integrations  
APPROVED  
(compounds with "m" flag)

Cheng-Hwan Ao  
09/29/10 16:39

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49426.D\ECD1A.CH Vial: 29  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49426.D\ECD2B.CH  
Acq On : 9-24-2010 07:39:10 PM Operator: toyar  
Sample : IC1826-50, Ar1016/1260 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:30:48 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:26:06 2010  
Response via : Initial Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.19	49820301	36483470	1.988	1.979
Spiked Amount 40.000			Recovery	=	4.97%	4.95%
50) S Decachlorobiphen	9.05	9.29	48806766	29040954	2.072	2.157
Spiked Amount 40.000			Recovery	=	5.18%	5.39%
Target Compounds						
30) AR1016-A	2.68	2.64	27342215	16005800	58.040	53.225m
31) AR1016-B	3.05	3.05	47945861	32603428	56.377	55.999
32) AR1016-C	3.58	3.56	106.5E6	59657739	53.314	48.220
33) AR1016-D	3.74	3.71	40761000	28257238	55.118	52.149
34) AR1016-E	4.21	4.24	40071446	19976772	52.776	55.130
35) AR1260-A	6.06	6.07	89783297	45389425	50.558	52.818
36) AR1260-B	6.41	6.51	95506618	59300066	52.142	49.879
37) AR1260-C	6.87	6.99	61635169	37157564	54.515	53.637
38) AR1260-D	7.27	7.33	145.2E6	78954324	49.810	49.514
39) AR1260-E	7.63	7.79	95088675	55345976	50.909	52.177

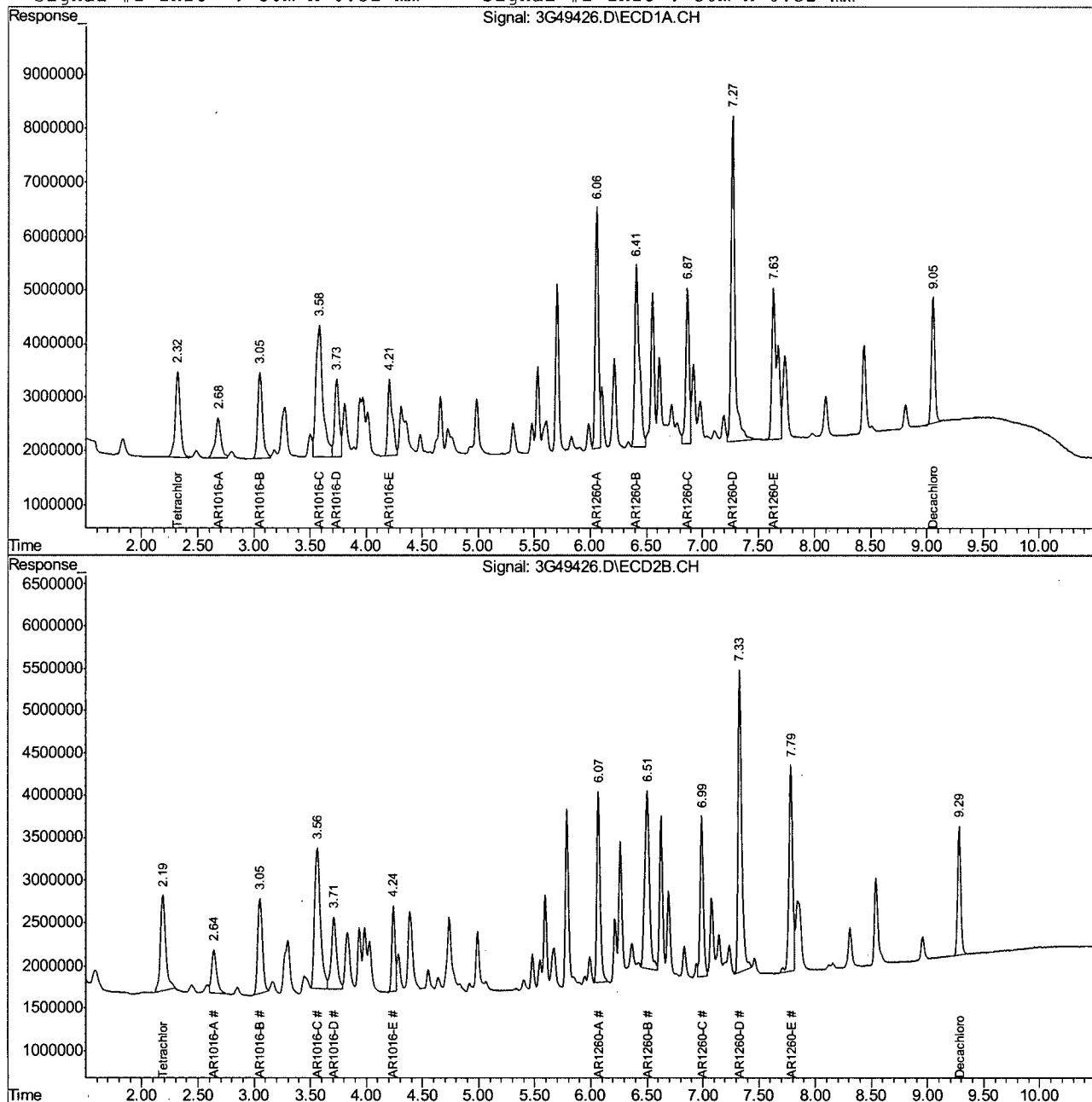
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual 'int.  
3G49426.D PCB1826.M Mon Sep 27 11:31:20 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49426.D\ECD1A.CH Vial: 29  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49426.D\ECD2B.CH  
Acq On : 9-24-2010 07:39:10 PM Operator: toyar  
Sample : IC1826-50, Ar1016/1260 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:31 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:26:06 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G49426.D PCB1826.M

Mon Sep 27 11:31:20 2010

GC3G

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** G3G1826-IC1826

**Method:** SW846 8082

**Lab FileID:** 3G49426.D

**Analyst approved:** 09/28/10 11:23 Toya Dagena Raffington

**Injection Time:** 09/24/10 19:39

**Supervisor approved:** 09/29/10 16:39 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-A		2	2.64	Poorly defined baseline

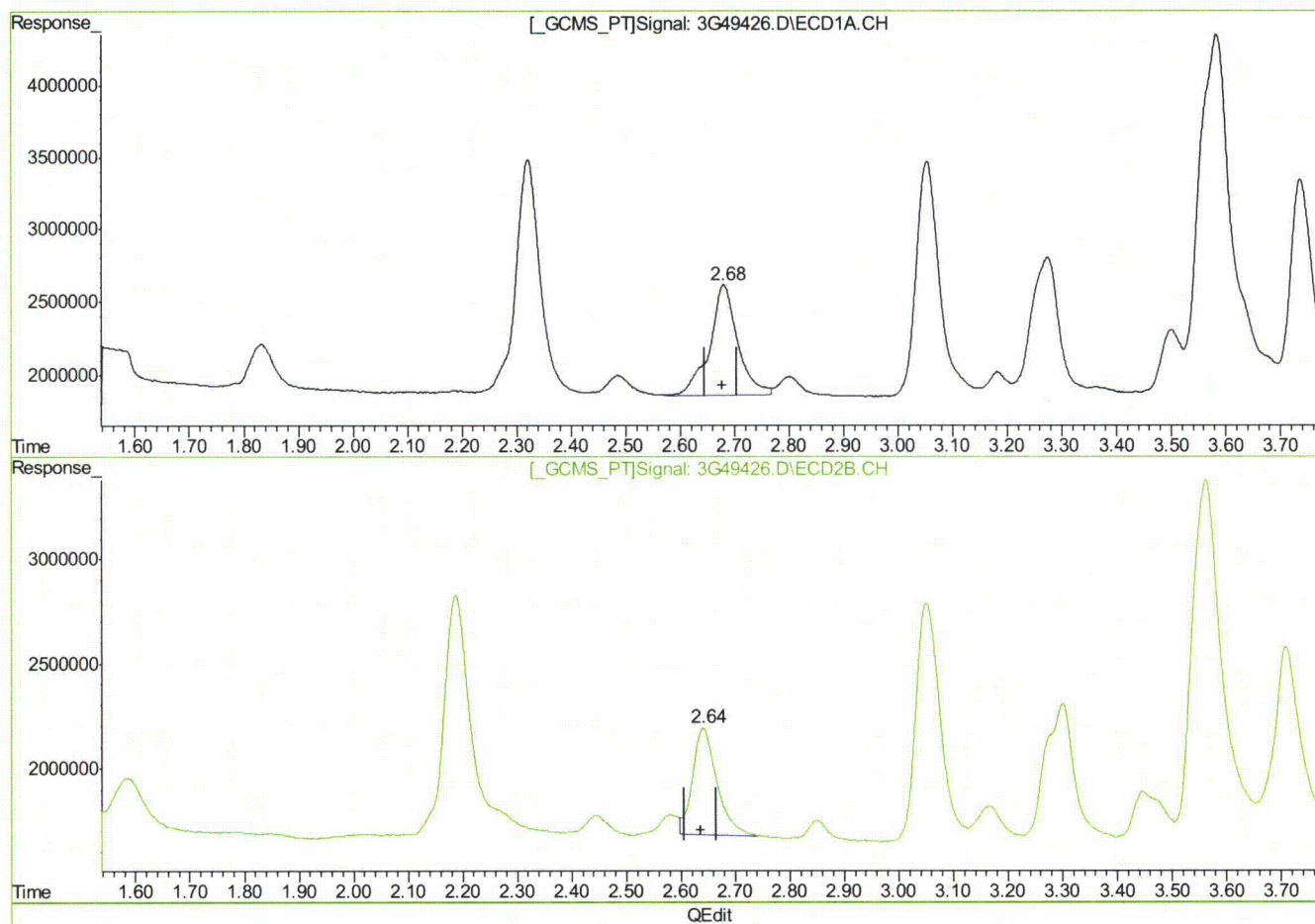
10.6.24.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49426.D\ECD1A.CH Vial: 29  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49426.D\ECD2B.CH  
Acq On : 9-24-2010 07:39:10 PM Operator: toyar  
Sample : IC1826-50, Ar1016/1260 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:30 2010 Quant Results File: PCB1826.RES

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:26:06 2010  
Response via : Multiple Level Calibration



(30) AR1016-A  
2.68min 58.040PPB  
response 27342215

(30) AR1016-A #2  
2.64min 53.225PPB m  
response 16005800

(+) = Expected Retention Time  
3G49426.D PCB1826.M Mon Sep 27 11:31:14 2010

GC3G

Cheng-Hwan Ao  
09/29/10 16:39

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49427.D\ECD1A.CH Vial: 30  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49427.D\ECD2B.CH  
Acq On : 9-24-2010 07:54:14 PM Operator: toyar  
Sample : IC1826-250 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:26:16 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:26:06 2010  
Response via : Initial Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.19	248.0E6	187.9E6	9.895	10.188
Spiked Amount 40.000			Recovery	=	24.74%	25.47%
50) S Decachlorobiphen	9.05	9.29	237.6E6	137.3E6	10.085	10.202
Spiked Amount 40.000			Recovery	=	25.21%	25.50%
Target Compounds						
30) AR1016-A	2.68	2.64	124.1E6	79596929	263.490	264.690m
31) AR1016-B	3.05	3.05	219.2E6	153.4E6	257.726	263.478
32) AR1016-C	3.58	3.56	499.9E6	306.2E6	250.259	247.464
33) AR1016-D	3.73	3.71	190.1E6	140.4E6	257.024	259.092
34) AR1016-E	4.20	4.24	193.4E6	91243000	254.784	251.805
35) AR1260-A	6.06	6.07	437.9E6	223.7E6	246.614	260.286
36) AR1260-B	6.41	6.51	474.8E6	297.9E6	259.195	250.560
37) AR1260-C	6.87	6.99	281.9E6	173.6E6	249.355	250.596
38) AR1260-D	7.27	7.33	721.7E6	390.4E6	247.632	244.823
39) AR1260-E	7.63	7.79	461.0E6	260.8E6	246.800	245.843

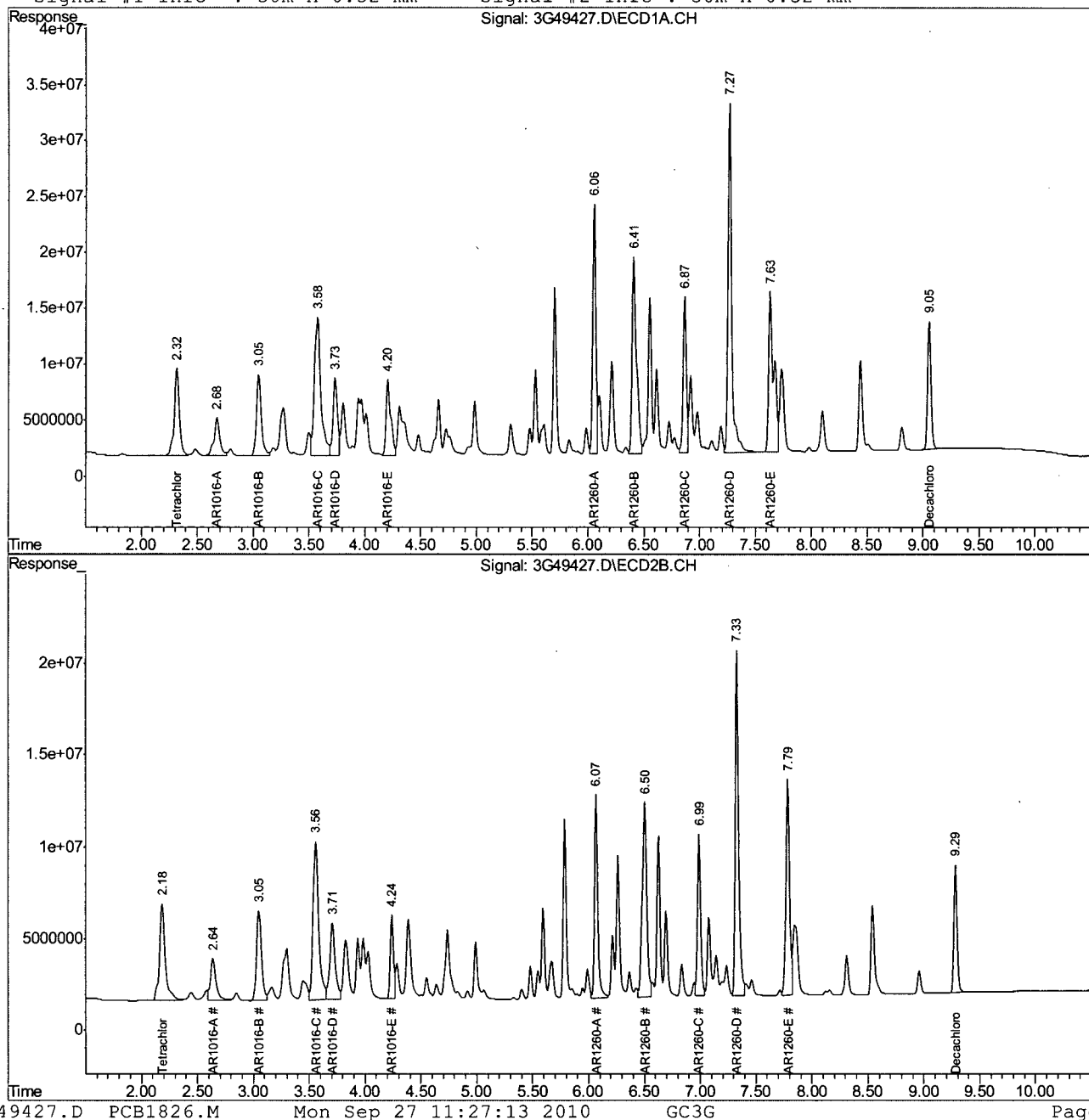
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(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
3G49427.D PCB1826.M Mon Sep 27 11:27:13 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49427.D\ECD1A.CH Vial: 30  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49427.D\ECD2B.CH  
Acq On : 9-24-2010 07:54:14 PM Operator: toyar  
Sample : IC1826-250 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:27 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:26:06 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



10.6.25 10

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** G3G1826-IC1826

**Method:** SW846 8082

**Lab FileID:** 3G49427.D

**Analyst approved:** 09/28/10 11:23 Toya Dagena Raffington

**Injection Time:** 09/24/10 19:54

**Supervisor approved:** 09/29/10 16:39 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-A		2	2.64	Poorly defined baseline

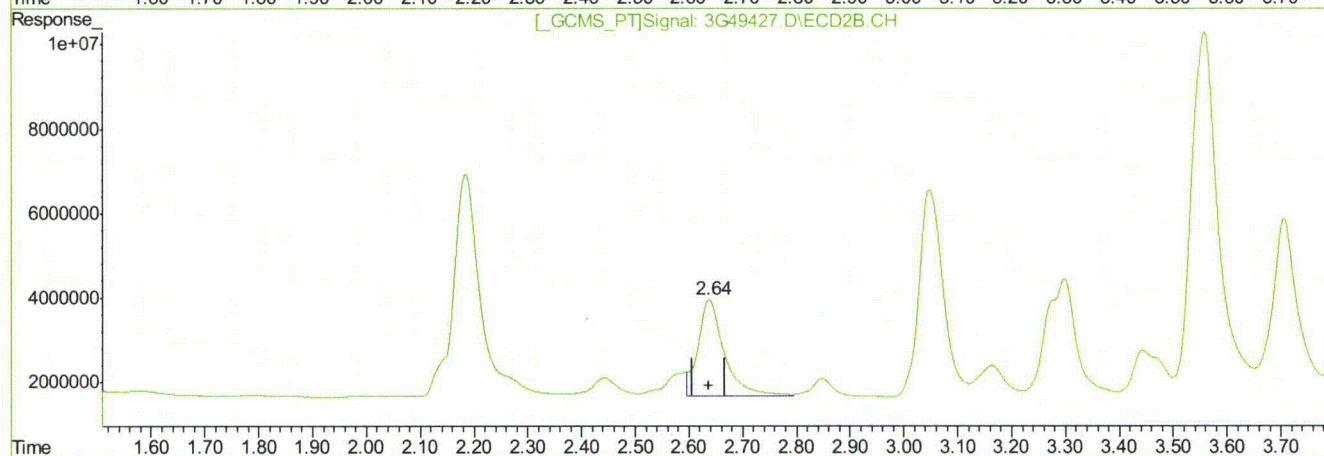
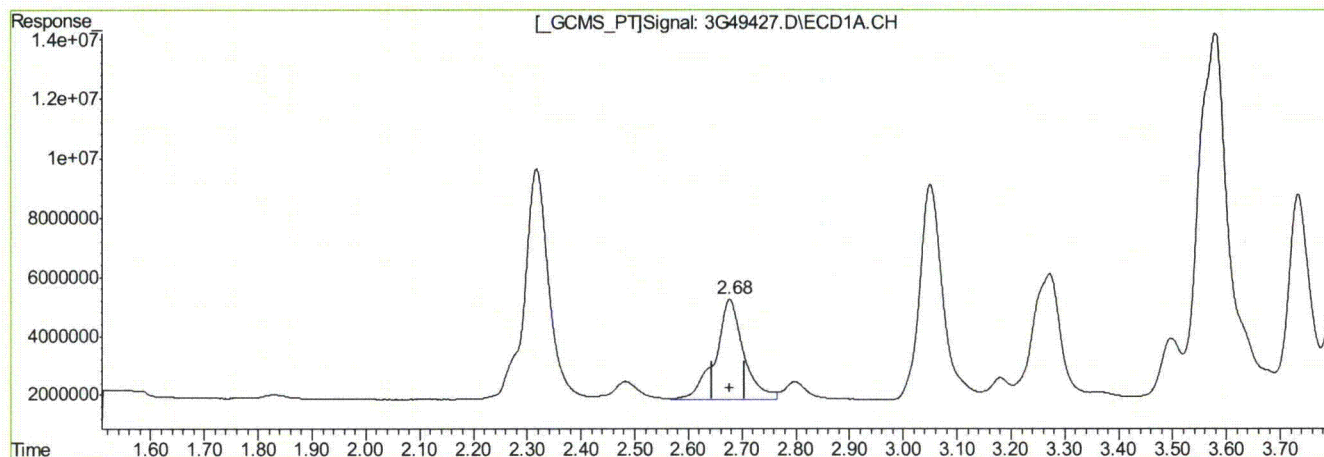
10.6.25.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49427.D\ECD1A.CH Vial: 30  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49427.D\ECD2B.CH  
Acq On : 9-24-2010 07:54:14 PM Operator: toyar  
Sample : IC1826-250 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:26 2010 Quant Results File: PCB1826.RES

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:26:06 2010  
Response via : Multiple Level Calibration



QEdit

(30) AR1016-A

2.68min 263.490PPB

response 124127440

(30) AR1016-A #2

2.64min 264.690PPB m

response 79596929

(+) = Expected Retention Time

3G49427.D PCB1826.M

Mon Sep 27 11:27:05 2010

GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49428.D\ECD1A.CH Vial: 31  
 Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49428.D\ECD2B.CH  
 Acq On : 9-24-2010 08:09:18 PM Operator: toyar  
 Sample : IC1826-500 Inst : GC3G  
 Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Sep 27 11:25:41 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Sep 27 11:25:13 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.18	494.7E6	366.1E6	19.482	19.713
Spiked Amount 40.000			Recovery	=	48.70%	49.28%
50) S Decachlorobiphen	9.05	9.29	467.9E6	267.2E6	19.724	19.701
Spiked Amount 40.000			Recovery	=	49.31%	49.25%
Target Compounds						
30) AR1016-A	2.68	2.64	236.2E6	152.7E6	502.633	515.521
31) AR1016-B	3.05	3.05	423.6E6	291.8E6	496.193	502.370
32) AR1016-C	3.58	3.56	989.6E6	610.0E6	490.881	486.272
33) AR1016-D	3.73	3.71	366.5E6	272.7E6	491.375	506.513
34) AR1016-E	4.20	4.24	377.0E6	180.4E6	493.010	495.877
35) AR1260-A	6.06	6.07	877.8E6	417.5E6	488.785	472.478
36) AR1260-B	6.41	6.51	881.5E6	587.3E6	463.833	488.095
37) AR1260-C	6.87	6.99	558.5E6	342.1E6	488.157	487.879
38) AR1260-D	7.27	7.33	1443.1E6	784.0E6	490.415	483.576
39) AR1260-E	7.63	7.79	920.4E6	521.4E6	485.741	483.459

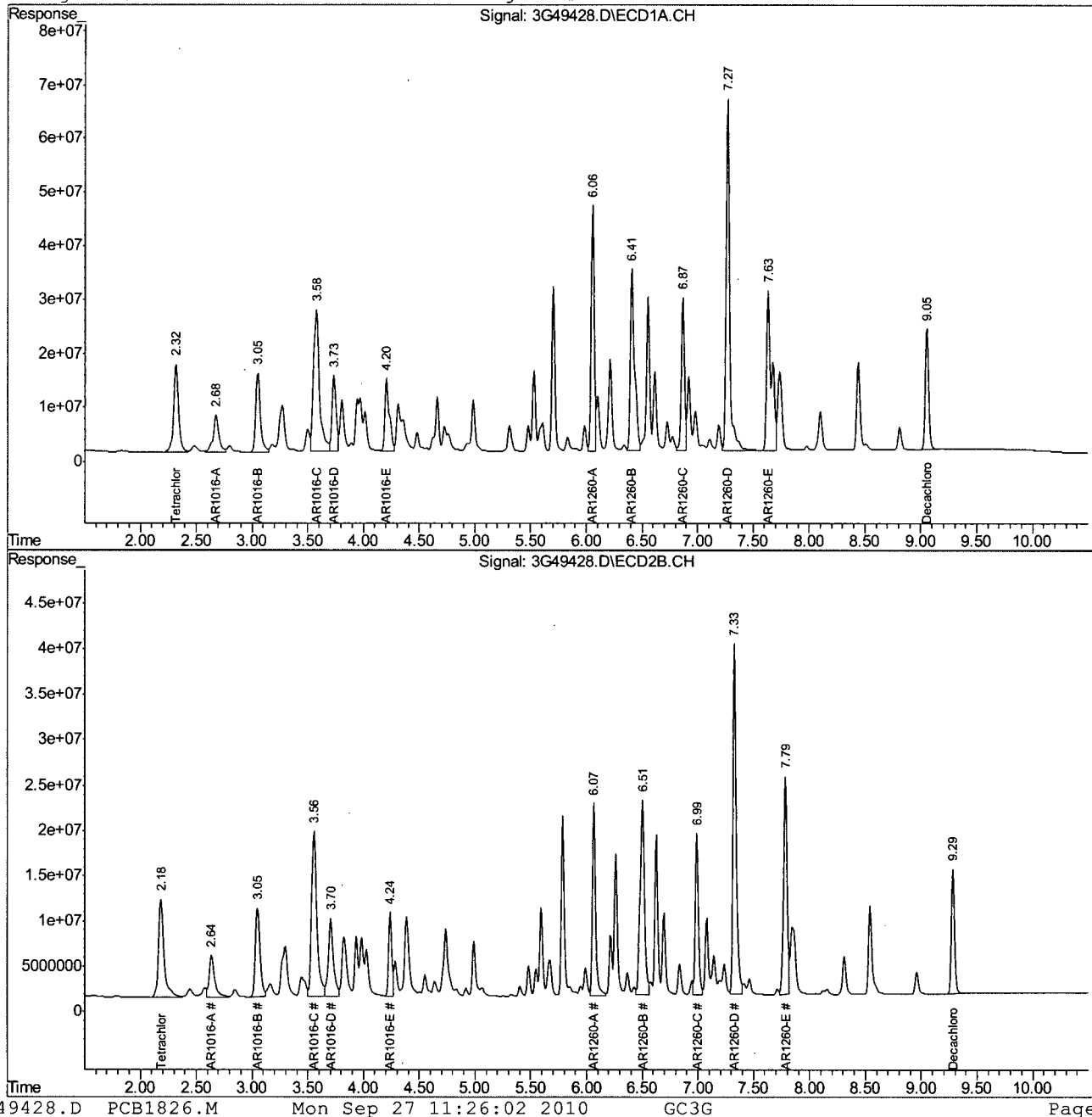
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 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G49428.D PCB1826.M Mon Sep 27 11:26:01 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49428.D\ECD1A.CH Vial: 31  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49428.D\ECD2B.CH  
Acq On : 9-24-2010 08:09:18 PM Operator: toyar  
Sample : IC1826-500 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:25 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:25:13 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G49428.D PCB1826.M

Mon Sep 27 11:26:02 2010

GC3G

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49429.D\ECD1A.CH Vial: 32  
 Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49429.D\ECD2B.CH  
 Acq On : 9-24-2010 08:24:23 PM Operator: toyar  
 Sample : ICC1826-1000 Inst : GC3G  
 Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Sep 27 11:25:16 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Sep 27 11:25:13 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.18	1015.7E6	742.9E6	40.000	40.000
Spiked Amount	40.000		Recovery	=	100.00%	100.00%
50) S Decachlorobiphen	9.05	9.29	948.9E6	542.5E6	40.000	40.000
Spiked Amount	40.000		Recovery	=	100.00%	100.00%
Target Compounds						
30) AR1016-A	2.68	2.64	469.9E6	296.1E6	1000.000	1000.000
31) AR1016-B	3.05	3.05	853.7E6	580.8E6	1000.000	1000.000
32) AR1016-C	3.58	3.56	2016.0E6	1254.4E6	1000.000	1000.000
33) AR1016-D	3.73	3.70	746.0E6	538.3E6	1000.000	1000.000
34) AR1016-E	4.20	4.24	764.6E6	363.9E6	1000.000	1000.000
35) AR1260-A	6.06	6.07	1796.0E6	883.7E6	1000.000	1000.000
36) AR1260-B	6.41	6.50	1900.4E6	1203.2E6	1000.000	1000.000
37) AR1260-C	6.87	6.99	1144.2E6	701.3E6	1000.000	1000.000
38) AR1260-D	7.27	7.33	2942.5E6	1621.2E6	1000.000	1000.000
39) AR1260-E	7.63	7.79	1894.8E6	1078.6E6	1000.000	1000.000

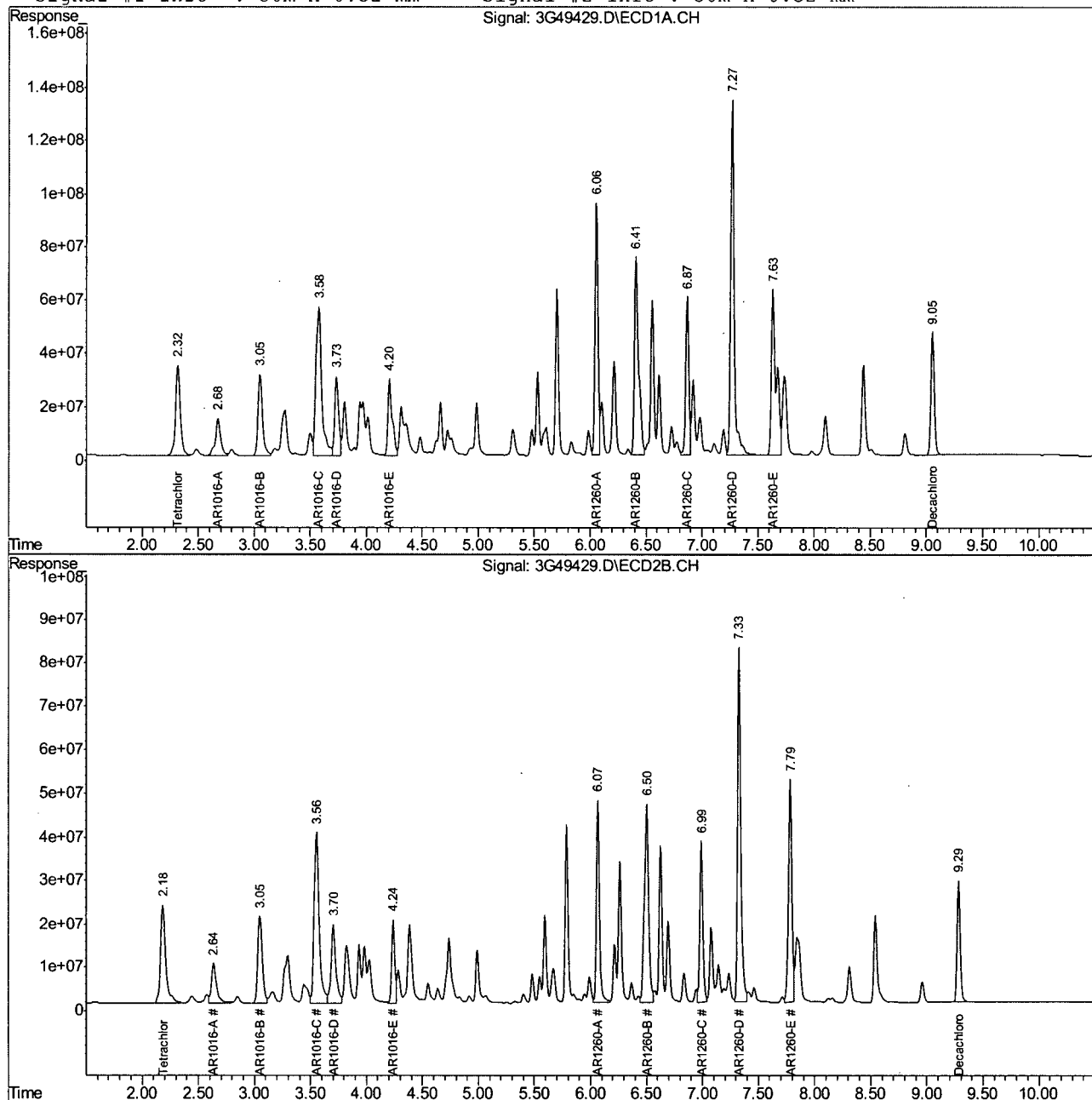
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 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G49429.D PCB1826.M Mon Sep 27 11:25:33 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49429.D\ECD1A.CH Vial: 32  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49429.D\ECD2B.CH  
Acq On : 9-24-2010 08:24:23 PM Operator: toyar  
Sample : ICC1826-1000 Inst : GC3G  
Misc : OP45784,g3gl826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:25:2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:25:13 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49430.D\ECD1A.CH Vial: 33  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49430.D\ECD2B.CH  
Acq On : 9-24-2010 08:39:33 PM Operator: toyar  
Sample : IC1826-2000 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:31:25 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:26:06 2010  
Response via : Initial Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.18	2001.2E6	1452.4E6	79.843	78.769
Spiked Amount 40.000			Recovery	=	199.61%	196.92%
50) S Decachlorobiphen	9.05	9.29	1837.5E6	1055.6E6	77.993	78.422
Spiked Amount 40.000			Recovery	=	194.98%	196.06%
Target Compounds						
30) AR1016-A	2.67	2.63	904.3E6	565.2E6	1919.564	1879.420
31) AR1016-B	3.05	3.05	1645.6E6	1120.1E6	1934.976	1923.817
32) AR1016-C	3.57	3.55	3902.1E6	2461.3E6	1953.366	1989.391
33) AR1016-D	3.73	3.70	1451.6E6	1030.7E6	1962.919	1902.225
34) AR1016-E	4.20	4.24	1485.9E6	716.1E6	1956.968	1976.259
35) AR1260-A	6.06	6.07	3445.6E6	1695.6E6	1940.250	1973.094
36) AR1260-B	6.41	6.50	3607.1E6	2359.7E6	1969.290	1984.812
37) AR1260-C	6.87	6.99	2214.6E6	1377.1E6	1958.808	1987.809
38) AR1260-D	7.27	7.33	5563.6E6	3147.5E6	1909.039	1973.876
39) AR1260-E	7.63	7.79	3698.2E6	2115.5E6	1979.929m	1994.383

-----  
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
3G49430.D PCB1826.M Mon Sep 27 11:32:00 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49430.D\ECD1A.CH Vial: 33  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49430.D\ECD2B.CH  
Acq On : 9-24-2010 08:39:33 PM Operator: toyar  
Sample : IC1826-2000 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:31 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:26:06 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

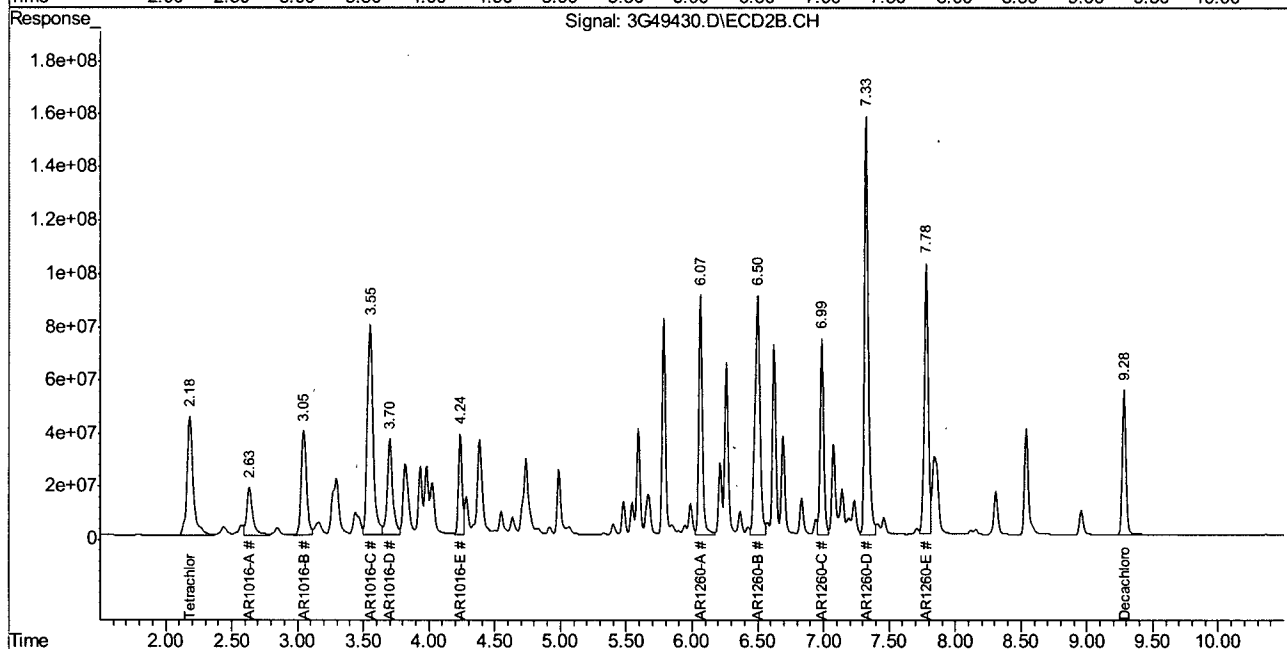
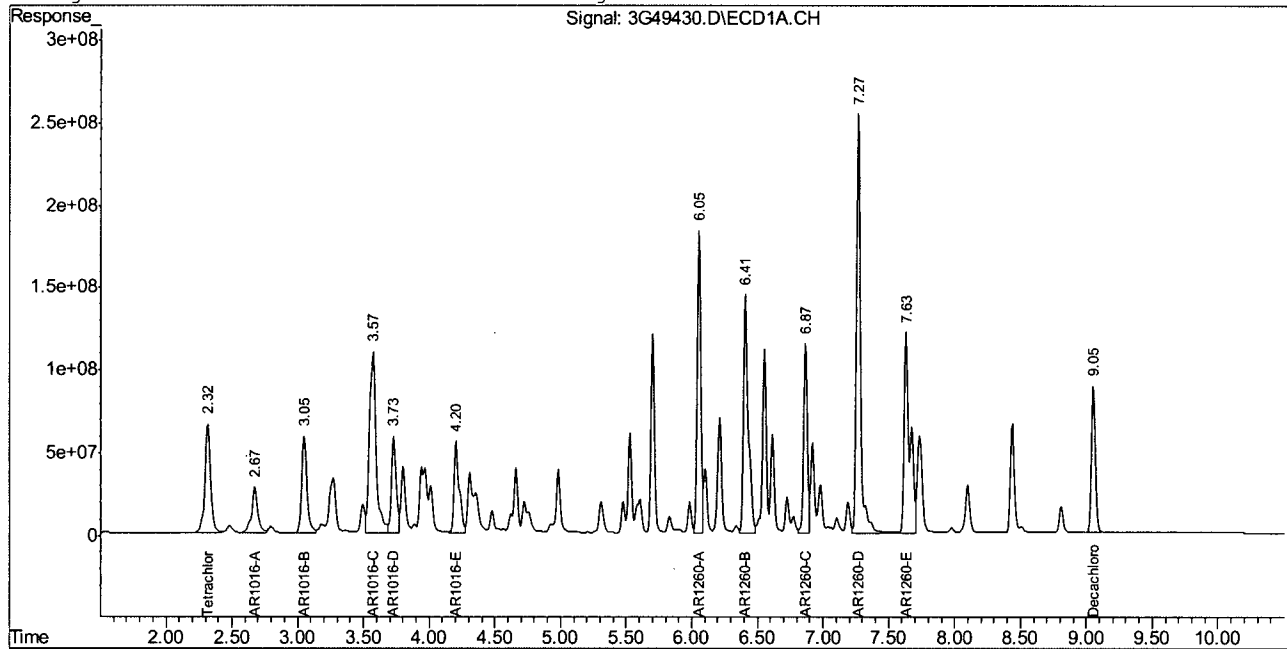
Volume Inj. : 1ul

Signal #1 Phase : RTX-CLP1

Signal #2 Phase: RTX-CLP2

Signal #1 Info : 30m X 0.32 mm

Signal #2 Info : 30m X 0.32 mm



3G49430.D PCB1826.M

Mon Sep 27 11:32:00 2010

GC3G

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** G3G1826-IC1826

**Method:** SW846 8082

**Lab FileID:** 3G49430.D

**Analyst approved:** 09/28/10 11:23 Toya Dagena Raffington

**Injection Time:** 09/24/10 20:39

**Supervisor approved:** 09/29/10 16:39 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-E		1	7.63	Split peak

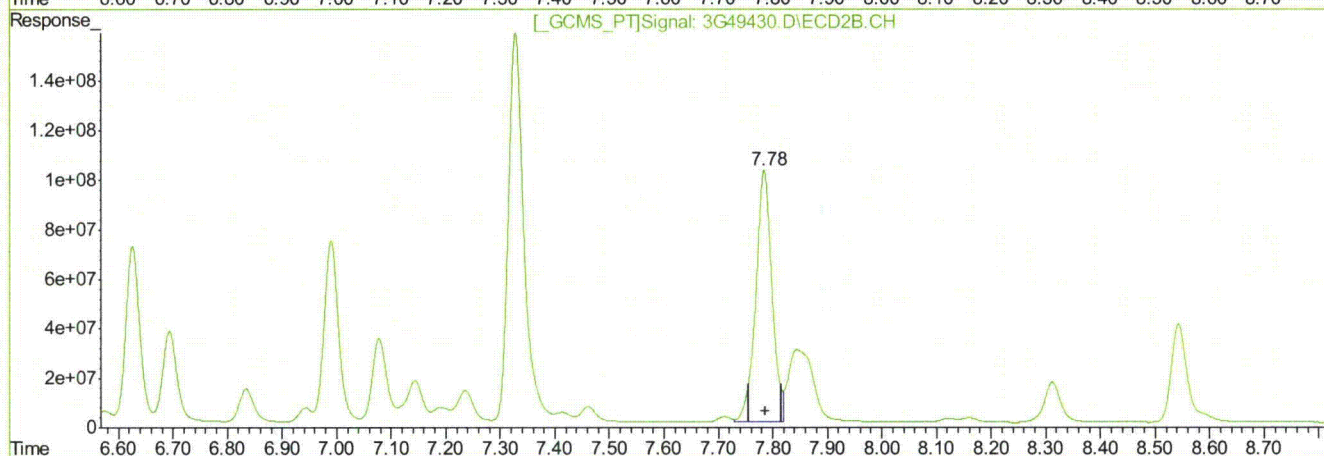
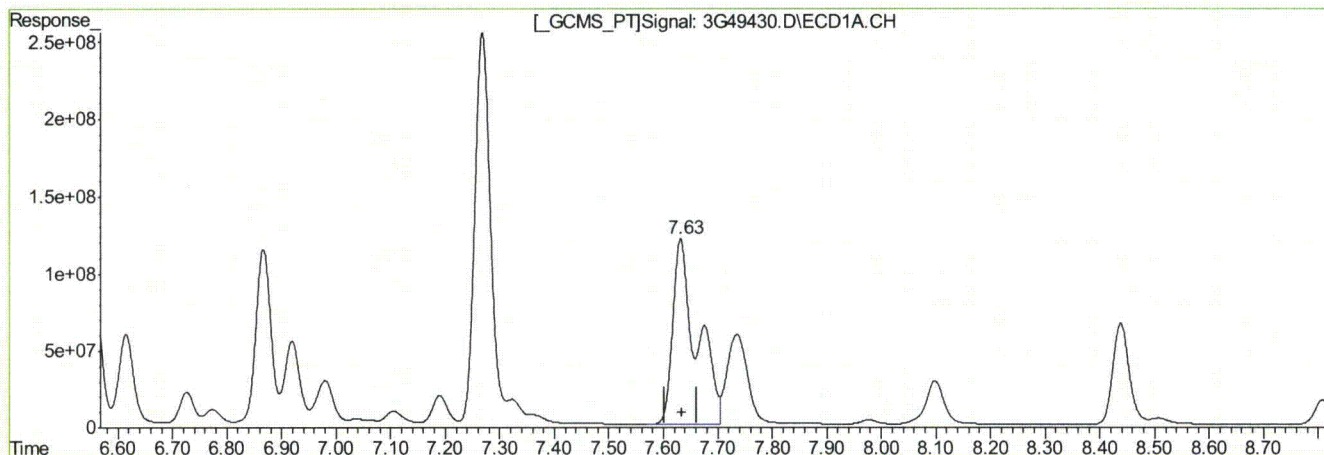
10.6.28.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49430.D\ECD1A.CH Vial: 33  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49430.D\ECD2B.CH  
Acq On : 9-24-2010 08:39:33 PM Operator: toyar  
Sample : IC1826-2000 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:31 2010 Quant Results File: PCB1826.RES

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:26:06 2010  
Response via : Multiple Level Calibration



QEdit

(39) AR1260-E

7.63min 1979.929PPB m

response 3698164737

(39) AR1260-E #2

7.79min 1994.383PPB

response 2115497102

(+) = Expected Retention Time

3G49430.D PCB1826.M

Mon Sep 27 11:31:50 2010

GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49431.D\ECD1A.CH Vial: 34  
 Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49431.D\ECD2B.CH  
 Acq On : 9-24-2010 08:54:38 PM Operator: toyar  
 Sample : IC1826-3000 Inst : GC3G  
 Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Sep 27 11:36:25 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Sep 27 11:26:06 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.18	3059.0E6	2229.4E6	122.047	120.906
Spiked Amount 40.000			Recovery	=	305.12%	302.26%
50) S Decachlorobiphen	9.05	9.29	2825.4E6	1635.6E6	119.923	121.510
Spiked Amount 40.000			Recovery	=	299.81%	303.77%
Target Compounds						
30) AR1016-A	2.67	2.63	1374.1E6	858.9E6	2916.793	2856.141
31) AR1016-B	3.05	3.05	2502.9E6	1708.8E6	2942.990	2934.935
32) AR1016-C	3.57	3.55	5836.9E6	3778.5E6	2921.913	3054.141
33) AR1016-D	3.73	3.70	2214.9E6	1580.2E6	2994.999	2916.312
34) AR1016-E	4.20	4.24	2280.3E6	1101.3E6	3003.263	3039.166
35) AR1260-A	6.05	6.07	5196.3E6	2682.0E6	2926.117	3120.935
36) AR1260-B	6.41	6.50	5782.4E6	3639.0E6	3156.890	3060.879
37) AR1260-C	6.87	6.99	3382.4E6	2128.0E6	2991.653	3071.752
38) AR1260-D	7.27	7.33	8336.9E6	4796.9E6	2860.631	3008.282
39) AR1260-E	7.63	7.78	5654.6E6	3276.6E6	3027.364	3088.996

-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G49431.D PCB1826.M Mon Sep 27 11:36:48 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49431.D\ECD1A.CH Vial: 34  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49431.D\ECD2B.CH  
Acq On : 9-24-2010 08:54:38 PM Operator: toyar  
Sample : IC1826-3000 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:36 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:26:06 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

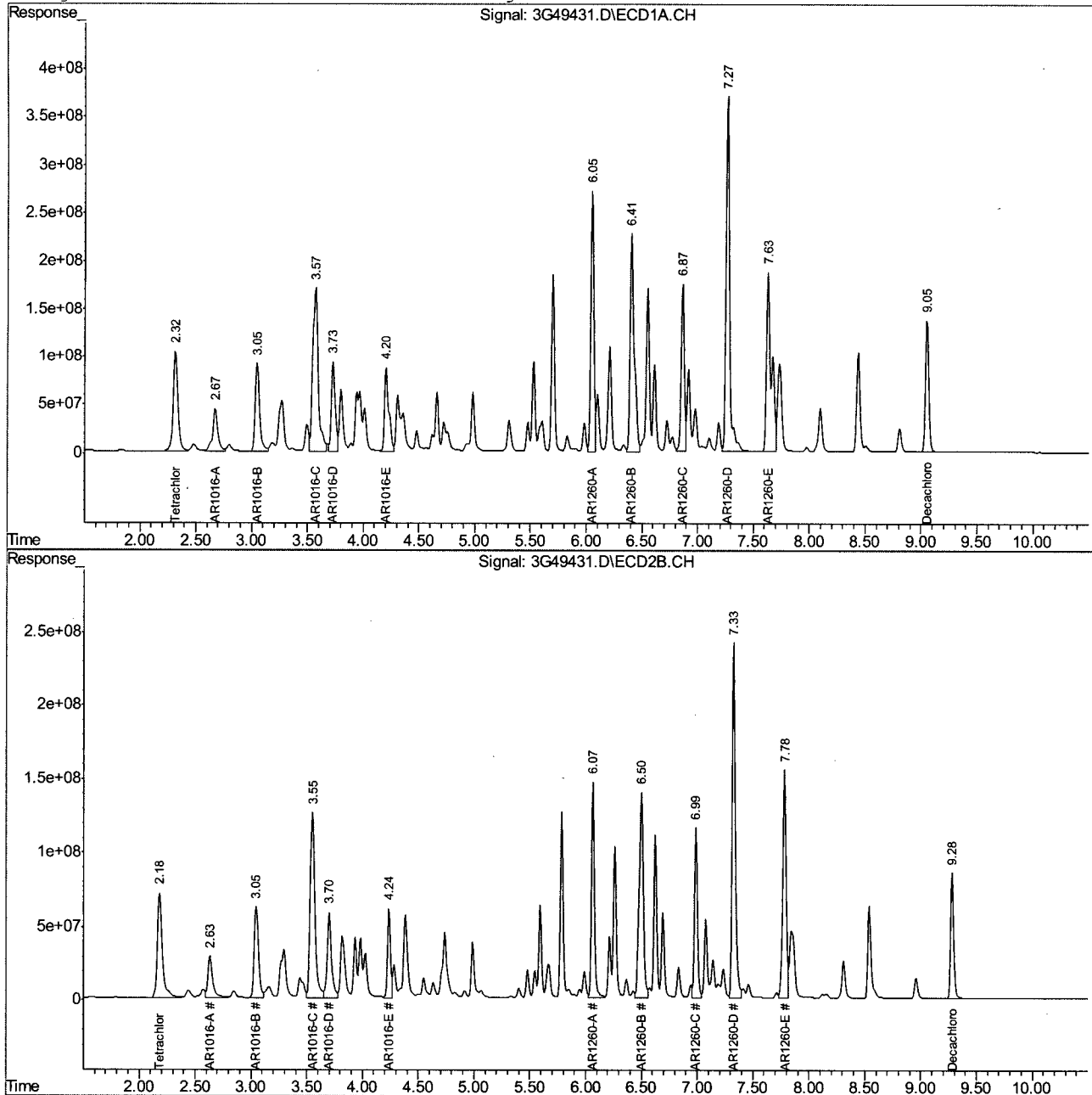
Volume Inj. : 1ul

Signal #1 Phase : RTX-CLP1

Signal #2 Phase: RTX-CLP2

Signal #1 Info : 30m X 0.32 mm

Signal #2 Info : 30m X 0.32 mm



3G49431.D PCB1826.M

Mon Sep 27 11:36:48 2010

GC3G

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49432.D\ECD1A.CH Vial: 35  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49432.D\ECD2B.CH  
Acq On : 9-24-2010 09:09:43 PM Operator: toyar  
Sample : ICV1826-1000 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:38:20 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:38:08 2010  
Response via : Initial Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
----------	------	------	--------	--------	-----	-----

## System Monitoring Compounds

## Target Compounds

30)	AR1016-A	2.67	2.64	468.0E6	299.9E6	969.717	994.640
31)	AR1016-B	3.05	3.05	857.3E6	581.9E6	990.451	980.863
32)	AR1016-C	3.58	3.56	2009.7E6	1246.0E6	1003.039	1012.725
33)	AR1016-D	3.73	3.70	740.2E6	538.7E6	982.911	993.665
34)	AR1016-E	4.20	4.24	762.7E6	362.4E6	995.487	981.830
35)	AR1260-A	6.06	6.07	1774.2E6	899.3E6	1008.636	1025.227
36)	AR1260-B	6.41	6.50	1914.4E6	1174.5E6	1025.264	985.838
37)	AR1260-C	6.87	6.99	1172.4E6	721.1E6	1025.976	1025.052
38)	AR1260-D	7.27	7.33	3052.6E6	1679.0E6	1066.149	1060.120
39)	AR1260-E	7.63	7.79	1925.2E6	1097.1E6	1029.952	1025.139

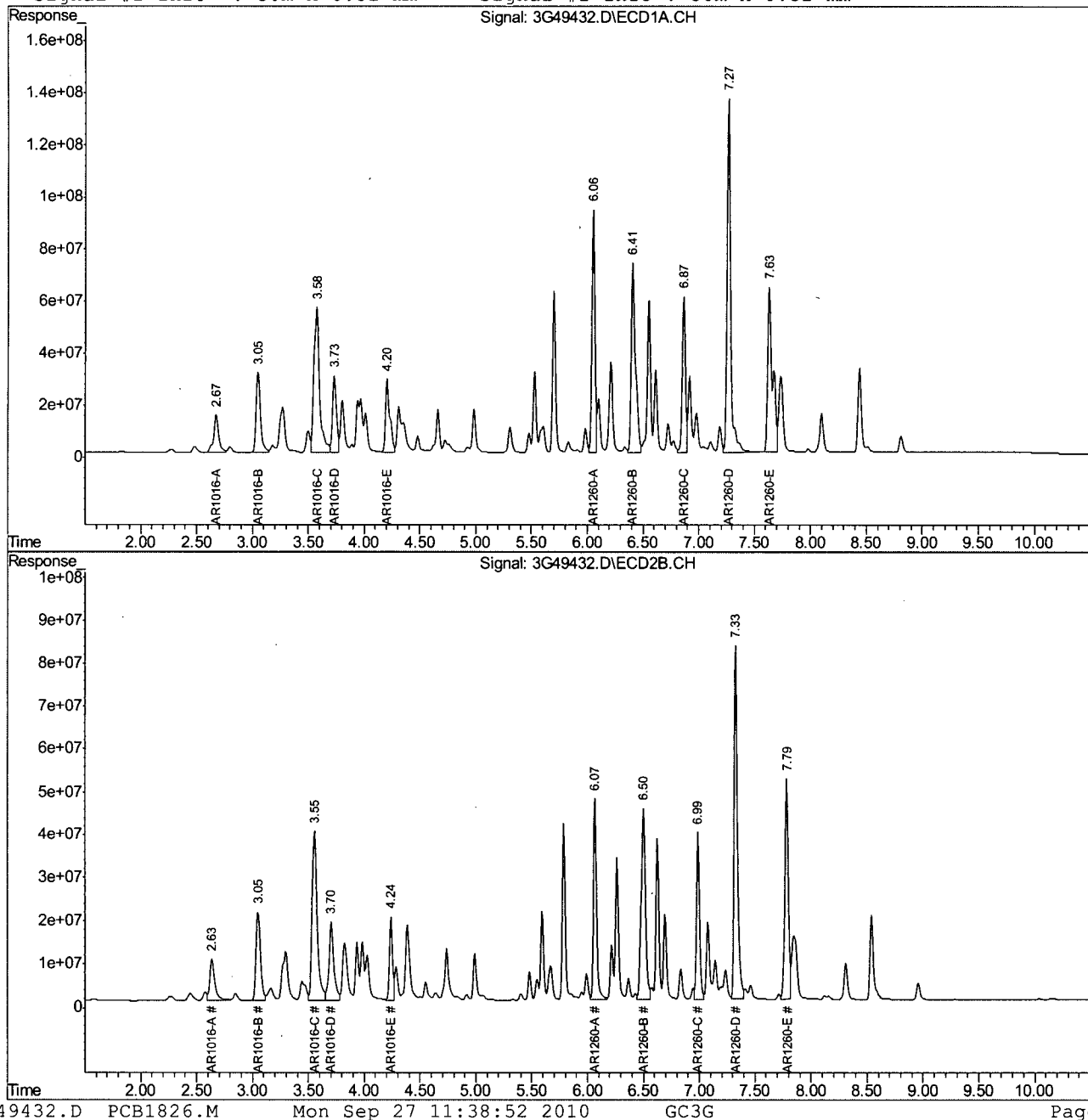
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
3G49432.D PCB1826.M Mon Sep 27 11:38:52 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49432.D\ECD1A.CH Vial: 35  
Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49432.D\ECD2B.CH  
Acq On : 9-24-2010 09:09:43 PM Operator: toyar  
Sample : ICV1826-1000 Inst : GC3G  
Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Sep 27 11:38 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Sep 27 11:38:08 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G49432.D PCB1826.M

Mon Sep 27 11:38:52 2010

GC3G

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1847\3G50143.D\ECD1A.CH Vial: 12  
 Signal #2 : C:\MSDCHEM\1\DATA\1847\3G50143.D\ECD2B.CH  
 Acq On : 20 Oct 2010 11:29 am Operator: toyar  
 Sample : cc1826-500 Inst : GC3G  
 Misc : OP46259,g3g1847,1000,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Oct 20 11:40:43 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Wed Oct 06 13:23:17 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.18	472.5E6	366.8E6	18.856	19.893
Spiked Amount 40.000			Recovery	=	47.14%	49.73%
50) S Decachlorobiphen	9.04	9.26f	418.7E6	270.4E6	17.719	19.788
Spiked Amount 40.000			Recovery	=	44.30%	49.47%
Target Compounds						
30) AR1016-A	2.68	2.63	223.9E6	152.7E6	463.925	506.646
31) AR1016-B	3.05	3.03	413.3E6	303.3E6	477.476	511.194
32) AR1016-C	3.58	3.54	920.3E6	600.0E6	459.311	487.671
33) AR1016-D	3.73	3.69	349.3E6	301.9E6	463.749	556.882
34) AR1016-E	4.20	4.22	371.1E6	185.4E6	484.396	502.322
35) AR1260-A	6.05	6.04	770.2E6	458.7E6	437.863	522.884
36) AR1260-B	6.40	6.48	855.9E6	604.4E6	458.399	507.302
37) AR1260-C	6.86	6.96f	504.0E6	367.3E6	441.073	522.074
38) AR1260-D	7.26	7.31	1448.9E6	810.1E6	506.035	511.515
39) AR1260-E	7.64	7.76	793.9E6	479.5E6	424.707	448.065

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G50143.D PCB1826.M Wed Oct 20 11:41:12 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1847\3G50143.D\ECD1A.CH Vial: 12  
Signal #2 : C:\MSDCHEM\1\DATA\1847\3G50143.D\ECD2B.CH  
Acq On : 20 Oct 2010 11:29 am Operator: toyar  
Sample : cc1826-500 Inst : GC3G  
Misc : OP46259,g3g1847,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Oct 20 11:41 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Wed Oct 06 13:23:17 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

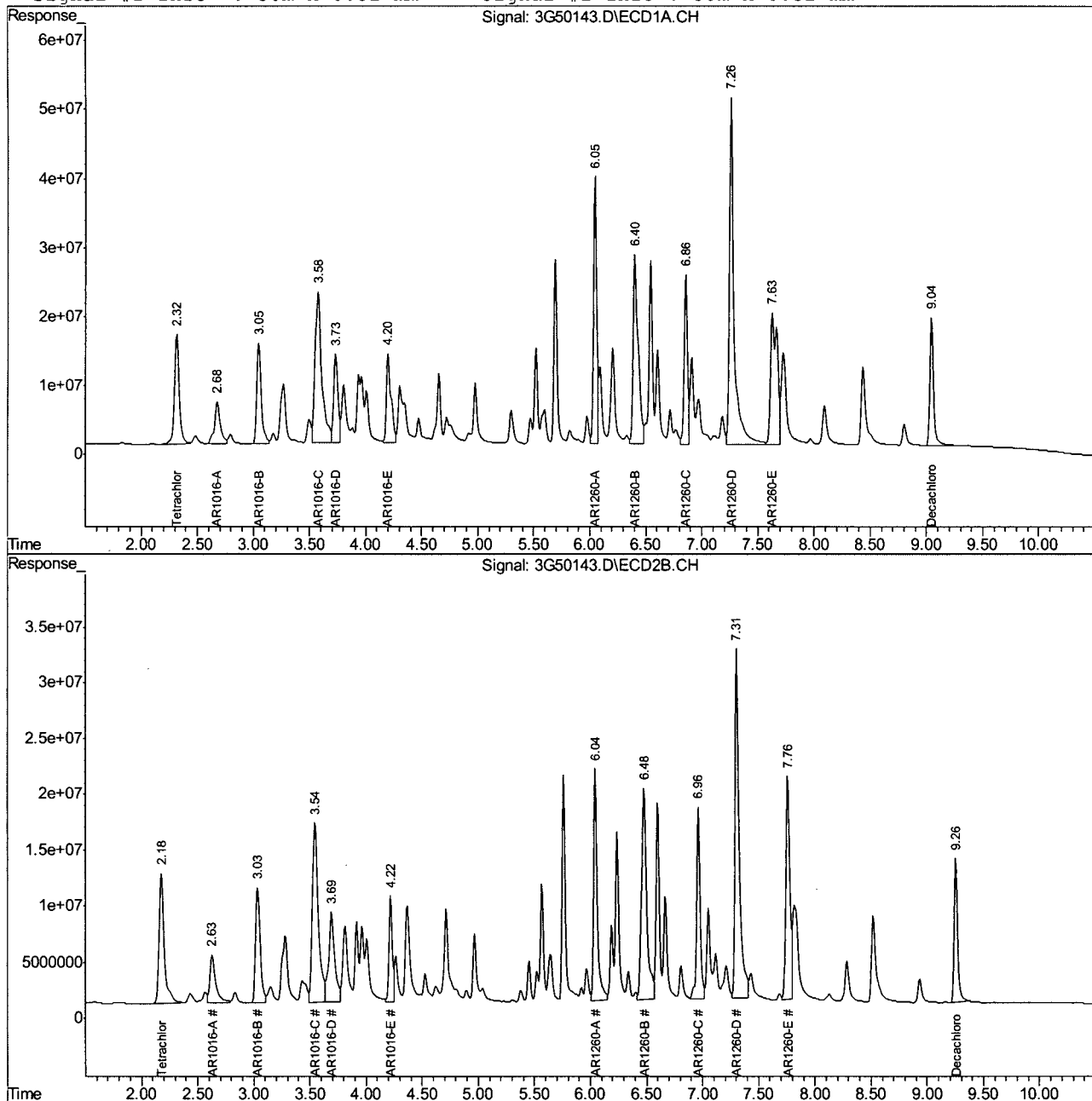
Volume Inj. : 1ul

Signal #1 Phase : RTX-CLP1

Signal #2 Phase: RTX-CLP2

Signal #1 Info : 30m X 0.32 mm

Signal #2 Info : 30m X 0.32 mm



10.6.31 10

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1847\3G50154.D\ECD1A.CH Vial: 23  
 Signal #2 : C:\MSDCHEM\1\DATA\1847\3G50154.D\ECD2B.CH  
 Acq On : 10-20-2010 03:18:06 PM Operator: toyar  
 Sample : cc1826-1000 Inst : GC3G  
 Misc : OP46248,g3g1847,17.3,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Oct 20 15:29:46 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Wed Oct 06 13:23:17 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.18	947.5E6	737.0E6	37.813	39.968
Spiked Amount 40.000			Recovery	=	94.53%	99.92%
50) S Decachlorobiphen	9.04	9.26f	901.0E6	556.0E6	38.123	40.684
Spiked Amount 40.000			Recovery	=	95.31%	101.71%
Target Compounds						
30) AR1016-A	2.68	2.63	436.5E6	297.0E6	904.486	985.159
31) AR1016-B	3.05	3.03	819.2E6	589.3E6	946.387	993.300
32) AR1016-C	3.58	3.54	1880.6E6	1208.3E6	938.583	982.042
33) AR1016-D	3.73	3.69	707.3E6	575.4E6	939.110	1061.478
34) AR1016-E	4.20	4.22	750.1E6	365.0E6	979.084	989.051
35) AR1260-A	6.05	6.04f	1661.3E6	922.8E6	944.431	1052.065
36) AR1260-B	6.40	6.48f	1802.5E6	1258.8E6	965.302	1056.616
37) AR1260-C	6.86	6.96f	1060.4E6	745.1E6	927.993	1059.218
38) AR1260-D	7.26	7.30f	3012.6E6	1713.5E6	1052.156	1081.906
39) AR1260-E	7.63	7.76f	1707.9E6	999.6E6	913.689	934.037

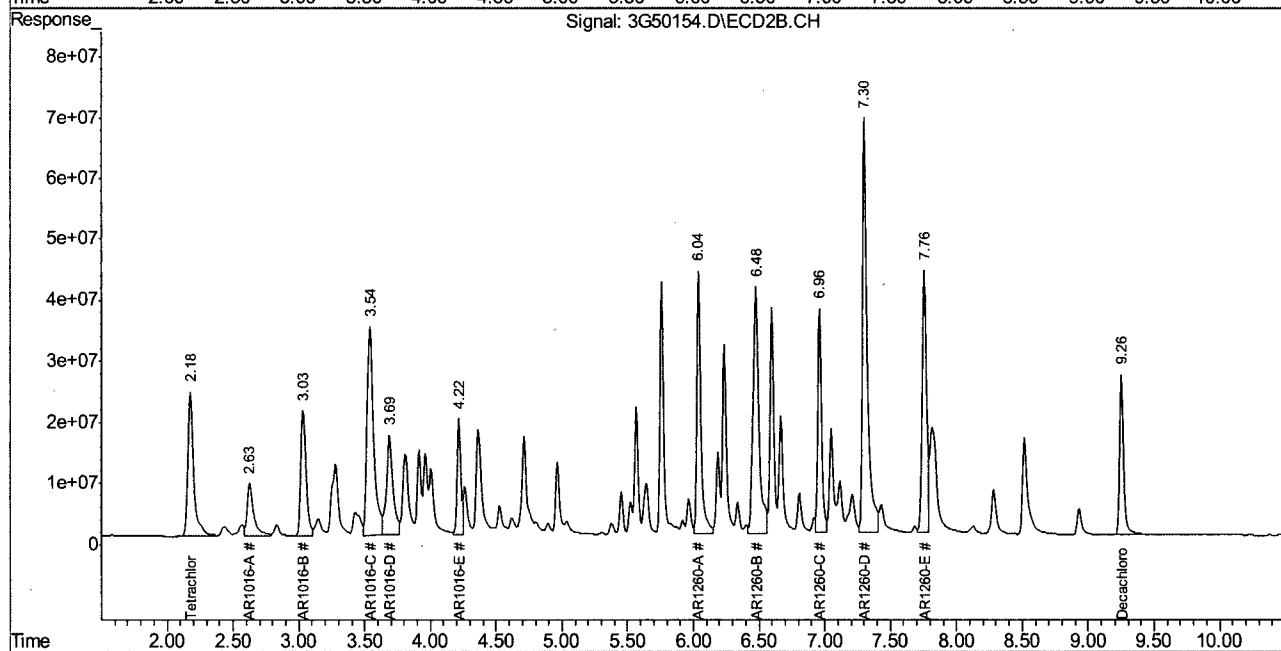
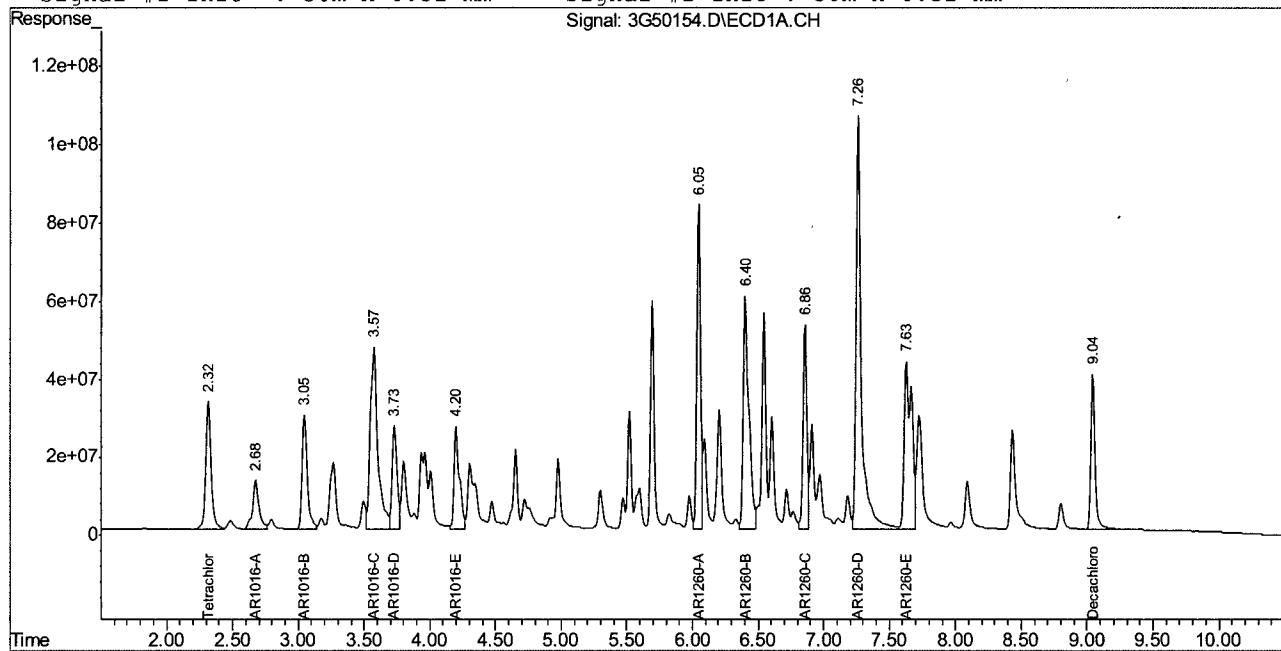
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G50154.D PCB1826.M Wed Oct 20 15:30:16 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1847\3G50154.D\ECD1A.CH Vial: 23  
Signal #2 : C:\MSDCHEM\1\DATA\1847\3G50154.D\ECD2B.CH  
Acq On : 10-20-2010 03:18:06 PM Operator: toyar  
Sample : cc1826-1000 Inst : GC3G  
Misc : OP46248,g3g1847,17.3,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Oct 20 15:30 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Wed Oct 06 13:23:17 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G50154.D PCB1826.M

Wed Oct 20 15:30:16 2010

GC3G

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1848\3G50187.D\ECD1A.CH Vial: 12  
 Signal #2 : C:\MSDCHEM\1\DATA\1848\3G50187.D\ECD2B.CH  
 Acq On : 21 Oct 2010 12:25 pm Operator: toyar  
 Sample : cc1826-1000 Inst : GC3G  
 Misc : OP46269,g3g1848,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Oct 21 12:37:42 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Wed Oct 06 13:23:17 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.18	981.0E6	739.4E6	39.150	40.097
Spiked Amount 40.000			Recovery	=	97.88%	100.24%
50) S Decachlorobiphen	9.05	9.26f	967.4E6	563.4E6	40.935	41.223
Spiked Amount 40.000			Recovery	=	102.34%	103.06%
Target Compounds						
30) AR1016-A	2.68	2.63	436.8E6	279.3E6	905.079	926.508
31) AR1016-B	3.05	3.03	836.1E6	596.0E6	965.933	1004.621
32) AR1016-C	3.58	3.54	1900.4E6	1186.9E6	948.480	964.624
33) AR1016-D	3.73	3.69	720.7E6	585.7E6	957.011	1080.503
34) AR1016-E	4.20	4.22	761.5E6	358.7E6	993.994	971.879
35) AR1260-A	6.05	6.04f	1615.1E6	902.9E6	918.209	1029.314
36) AR1260-B	6.41	6.48f	1805.0E6	1192.0E6	966.646	1000.540
37) AR1260-C	6.86	6.96f	1027.4E6	744.6E6	899.091	1058.449
38) AR1260-D	7.27	7.31	3213.2E6	1634.6E6	1122.219	1032.126
39) AR1260-E	7.66f	7.76	1712.3E6	885.3E6	916.027	827.178

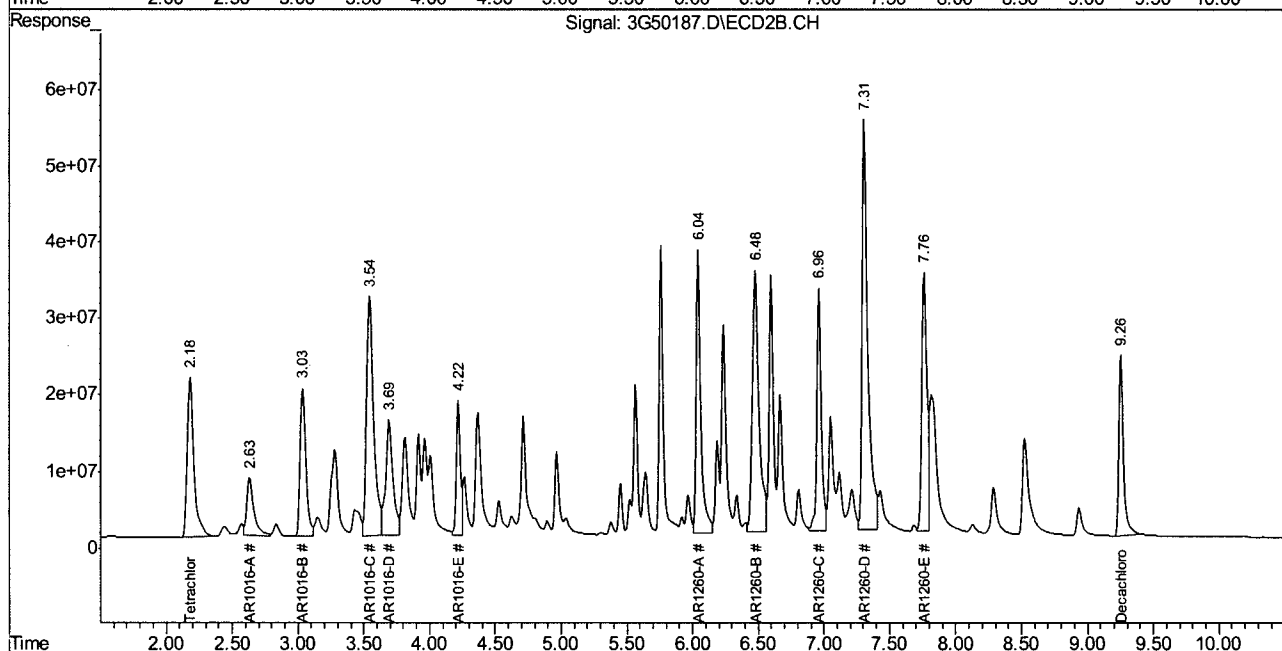
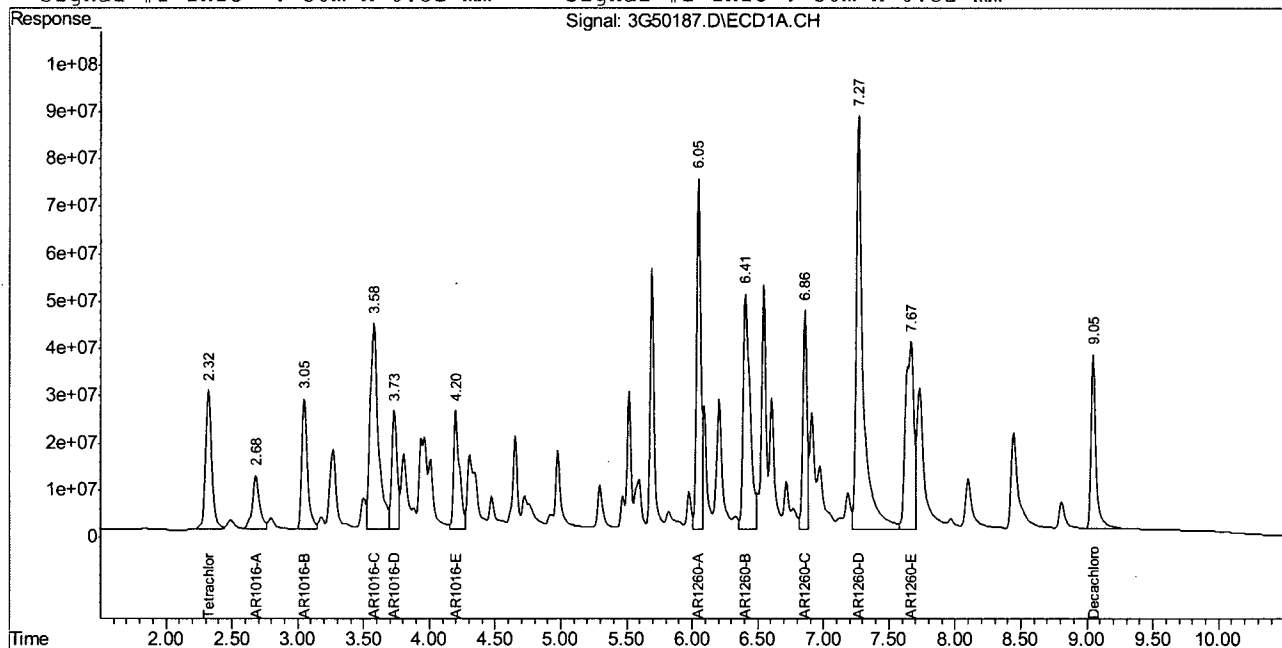
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G50187.D PCB1826.M Thu Oct 21 13:24:45 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1848\3G50187.D\ECD1A.CH Vial: 12  
Signal #2 : C:\MSDCHEM\1\DATA\1848\3G50187.D\ECD2B.CH  
Acq On : 21 Oct 2010 12:25 pm Operator: toyar  
Sample : ccl826-1000 Inst : GC3G  
Misc : OP46269,g3g1848,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Oct 21 13:24 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Wed Oct 06 13:23:17 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G50187.D PCB1826.M

Thu Oct 21 13:24:45 2010

GC3G

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1848\3G50197.D\ECD1A.CH Vial: 22  
 Signal #2 : C:\MSDCHEM\1\DATA\1848\3G50197.D\ECD2B.CH  
 Acq On : 10-21-2010 04:47:28 PM Operator: toyar  
 Sample : cc1826-500 Inst : GC3G  
 Misc : OP46276,g3g1848,1,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Oct 21 17:00:53 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Thu Oct 21 15:12:41 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.32	2.18	447.3E6	354.3E6	17.851	19.213
Spiked Amount 40.000			Recovery	=	44.63%	48.03%
50) S Decachlorobiphen	9.05	9.26	428.7E6	268.2E6	18.140	19.624
Spiked Amount 40.000			Recovery	=	45.35%	49.06%
Target Compounds						
30) AR1016-A	2.68	2.63	207.5E6	146.7E6	429.990	486.746
31) AR1016-B	3.05	3.03	386.4E6	288.9E6	446.426	487.007
32) AR1016-C	3.57	3.54	886.2E6	588.2E6	442.274	478.083
33) AR1016-D	3.73	3.69	332.6E6	281.2E6	441.657	518.683
34) AR1016-E	4.20	4.21	348.7E6	176.6E6	455.123	478.475
35) AR1260-A	6.05	6.04	743.2E6	453.7E6	422.538	517.203
36) AR1260-B	6.40	6.48	831.9E6	603.5E6	445.519	506.545
37) AR1260-C	6.86	6.96	479.6E6	373.1E6	419.722	530.428 #
38) AR1260-D	7.27	7.30	1338.6E6	821.3E6	467.510	518.578
39) AR1260-E	7.65f	7.76	761.2E6	462.5E6	407.223	432.127

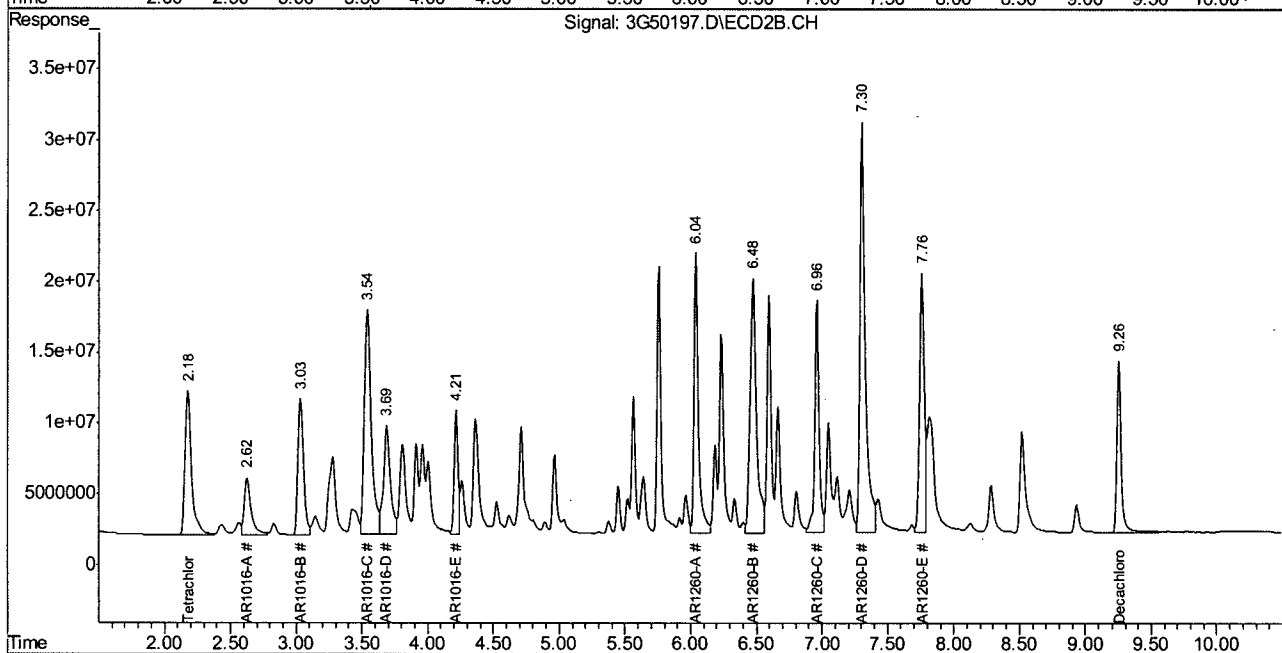
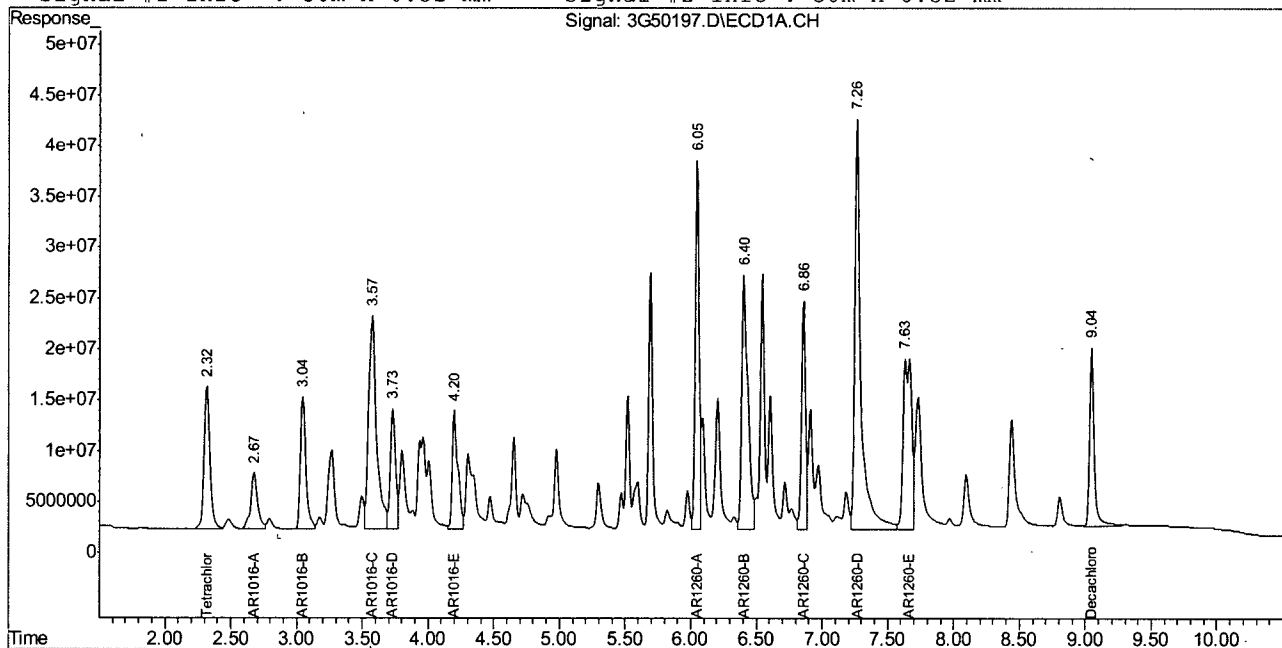
-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G50197.D PCB1826.M Thu Oct 21 17:01:49 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1848\3G50197.D\ECD1A.CH Vial: 22  
Signal #2 : C:\MSDCHEM\1\DATA\1848\3G50197.D\ECD2B.CH  
Acq On : 10-21-2010 04:47:28 PM Operator: toyar  
Sample : ccl1826-500 Inst : GC3G  
Misc : OP46276,g3g1848,1,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Oct 21 17:01 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Thu Oct 21 15:12:41 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G50197.D PCB1826.M

Thu Oct 21 17:01:50 2010

GC3G

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1849\3G50210.D\ECD1A.CH Vial: 1  
 Signal #2 : C:\MSDCHEM\1\DATA\1849\3G50210.D\ECD2B.CH  
 Acq On : 10-22-2010 02:31:07 PM Operator: toyar  
 Sample : CC1826-500 Inst : GC3G  
 Misc : OP46248,g3g1849,1.2,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e  
 Quant Time: Oct 22 16:07:45 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Fri Oct 22 13:34:03 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.29	2.14	438.7E6	351.5E6	17.509	19.061
Spiked Amount 40.000			Recovery	=	43.77%	47.65%
50) S Decachlorobiphen	9.02	9.23	459.2E6	283.6E6	19.430	20.752
Spiked Amount 40.000			Recovery	=	48.58%	51.88%
Target Compounds						
30) AR1016-A	2.65	2.60	208.1E6	145.2E6	431.260	481.639
31) AR1016-B	3.02	3.00	382.1E6	283.4E6	441.424	477.665
32) AR1016-C	3.55	3.51	868.4E6	566.1E6	433.406	460.075
33) AR1016-D	3.70	3.66	327.3E6	279.4E6	434.625	515.466
34) AR1016-E	4.17	4.19	344.5E6	173.1E6	449.637	468.943
35) AR1260-A	6.02	6.01	818.6E6	436.6E6	465.394	497.718
36) AR1260-B	6.38	6.45	856.1E6	608.7E6	458.468	510.909
37) AR1260-C	6.83	6.93	526.8E6	381.4E6	461.032	542.145
38) AR1260-D	7.23	7.27	1538.7E6	835.0E6	537.413	527.238
39) AR1260-E	7.60	7.73	869.3E6	492.7E6	465.082	460.379

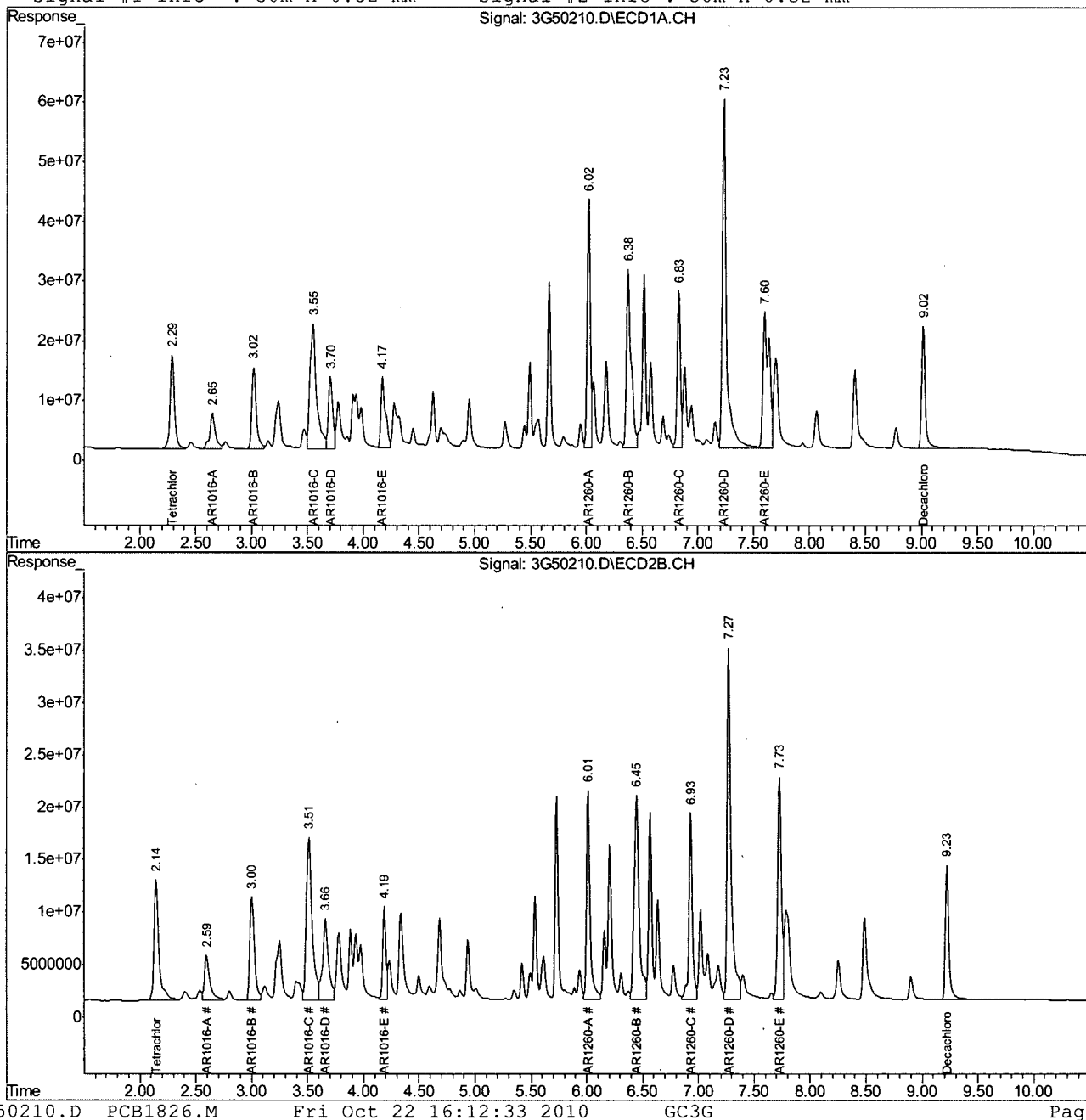
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G50210.D PCB1826.M Fri Oct 22 16:12:32 2010 GC3G

## Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1849\3G50210.D\ECD1A.CH Vial: 1  
Signal #2 : C:\MSDCHEM\1\DATA\1849\3G50210.D\ECD2B.CH  
Acq On : 10-22-2010 02:31:07 PM Operator: toyar  
Sample : CC1826-500 Inst : GC3G  
Misc : OP46248,g3g1849,1.2,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: Oct 22 16:12 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Fri Oct 22 13:34:03 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



3G50210.D PCB1826.M

Fri Oct 22 16:12:33 2010

GC3G

Page 2

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\1849\3G50218.D\ECD1A.CH Vial: 9  
 Acq On : 10-22-2010 04:39:05 PM Operator: toyar  
 Sample : ECC1826-1000 Inst : GC3G  
 Misc : OP46259,g3g1849,900,,,10,1 Multiplr: 1.00  
 IntFile : events.e

Data File : C:\MSDCHEM\1\DATA\1849\3G50218.D\ECD2B.CH Vial: 9  
 Acq On : 10-22-2010 04:39:06 PM Operator: toyar  
 Sample : ECC1826-1000 Inst : GC3G  
 Misc : OP46259,g3g1849,900,,,10,1 Multiplr: 1.00  
 IntFile : events2.e  
 Quant Time: Oct 25 08:58:46 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Oct 25 08:58:42 2010  
 Response via : Initial Calibration  
 DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
 Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.29	2.15	926.1E6	720.3E6	36.958	39.060
Spiked Amount 40.000			Recovery	=	92.39%	97.65%
50) S Decachlorobiphen	9.01	9.23	916.6E6	564.0E6	38.784	41.267
Spiked Amount 40.000			Recovery	=	96.96%	103.17%
Target Compounds						
30) AR1016-A	2.65	2.60	420.9E6	291.1E6	872.079	965.650
31) AR1016-B	3.02	3.00	787.8E6	573.9E6	910.104	967.283
32) AR1016-C	3.55	3.51	1825.2E6	1192.9E6	910.935	969.508
33) AR1016-D	3.70	3.66	681.6E6	561.1E6	905.059	1034.993
34) AR1016-E	4.17	4.19	714.3E6	356.4E6	932.383	965.665
35) AR1260-A	6.02	6.01	1675.5E6	861.6E6	952.533	982.238
36) AR1260-B	6.37	6.45	1659.5E6	1265.5E6	888.722	1062.271
37) AR1260-C	6.83	6.93	1059.9E6	738.4E6	927.531	1049.587
38) AR1260-D	7.23	7.27	3107.1E6	1727.7E6	1085.183	1090.869
39) AR1260-E	7.60	7.73	1793.9E6	1030.9E6	959.714	963.288

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 3G50218.D PCB1826.M Mon Oct 25 08:59:24 2010 GC3G

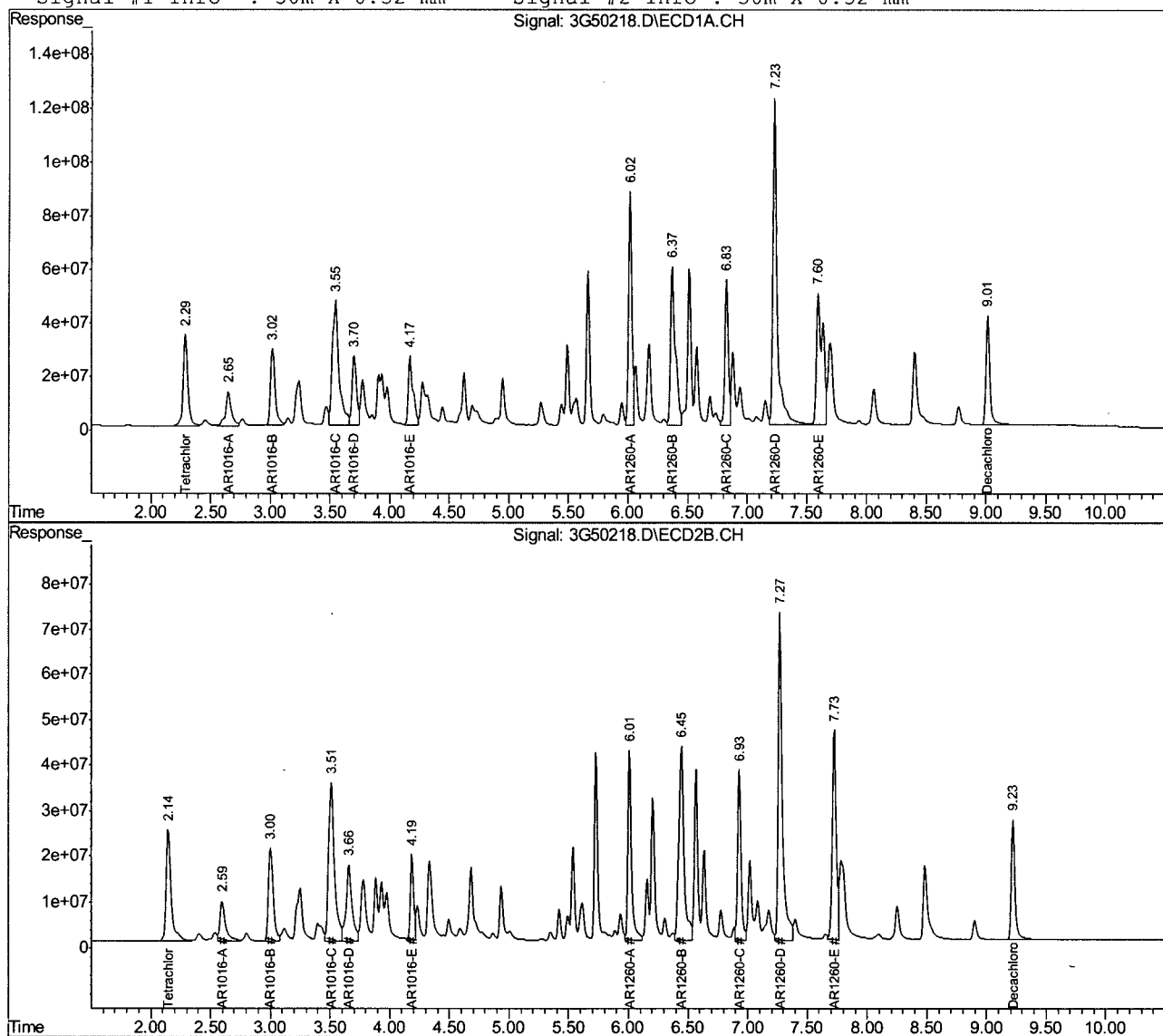
## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\1849\3G50218.D\ECD1A.CH Vial: 9  
Acq On : 10-22-2010 04:39:05 PM Operator: toyar  
Sample : ECC1826-1000 Inst : GC3G  
Misc : OP46259,g3g1849,900,,,10,1 Multiplr: 1.00  
IntFile : events.e

Data File : C:\MSDCHEM\1\DATA\1849\3G50218.D\ECD2B.CH Vial: 9  
Acq On : 10-22-2010 04:39:06 PM Operator: toyar  
Sample : ECC1826-1000 Inst : GC3G  
Misc : OP46259,g3g1849,900,,,10,1 Multiplr: 1.00  
IntFile : events2.e  
Quant Time: Oct 25 8:59 2010 Quant Results File: PCB1826.RES

Quant Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Mon Oct 25 08:58:42 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB1826.M

Volume Inj. : 1ul  
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2  
Signal #1 Info : 30m X 0.32 mm Signal #2 Info : 30m X 0.32 mm



## Quantitation Report (QT Reviewed)

Manual Integrations  
APPROVED  
(compounds with "m" flag)Owen McKenna  
10/22/10 11:37

Data Path : C:\msdchem\1\DATA\4g19\  
 Data File : 4g592.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 21 Oct 2010 4:27 pm  
 Operator : owenm  
 Sample : ic19-1  
 Misc : op46271,g4g19,17.0,,,10,1  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Oct 22 09:41:11 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
 Quant Title : PEST/PCB  
 QLast Update : Thu Oct 21 10:11:07 2010  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachlo...	1.992	2.352	3109745	2705665	0.938	0.962
Spiked Amount	40.000 Range	30 - 150	Recovery	=	2.34%#	2.40%#
34) SA Decachlor...	8.739	10.420	3297011	2168761	1.090	1.061m
Spiked Amount	40.000 Range	30 - 150	Recovery	=	2.73%#	2.65%#
Target Compounds						
2) Hexachlor...	2.245	2.748	4228265	3531199	1.039	1.001
3) A alpha-BHC	2.359	2.857	4199936	2797217	0.900	0.856
4) MA gamma-BHC	2.597	3.205	3885724	2756669	0.916	0.892
5) MA Heptachlor	3.001	3.701	4347024	3084441	1.035	0.992
6) B beta-BHC	2.657	3.273	2230037	1685174	1.076	0.999
7) B delta-BHC	2.813	3.599	3813942	2591851	0.936	0.915
8) MB Aldrin	3.288	4.092	3782928	2398094	0.924	0.889
9) B Heptachlo...	3.925	4.819	4006858	2583429	1.010	0.889
10) B gamma-Chl...	4.068	5.079	3792888	2722470	0.961	0.942
11) B alpha-Chl...	4.225	5.286	3897823	2756437	1.011	0.975
12) A Endosulfan I	4.392	5.370	3777495	2461662	1.010	0.931
13) B 4,4'-DDE	4.320	5.525	3341251	2153126	0.898	0.879
14) MA Dieldrin	4.692	5.770	3625228	2408977	0.915	0.868
15) MA Endrin	4.995	6.229	3479894	2376873	0.970	0.951
16) A 4,4'-DDD	5.102	6.413	2971975	1895577	0.794	0.730
17) B Endosulfa...	5.299	6.558	3533710	2280716	0.993	0.872
18) MA 4,4'-DDT	5.495	6.920	3224203	2050121	1.386	1.402
19) B Endrin Al...	5.903	7.100	4030838	2207324	1.311	1.016
20) B Endosulfa...	6.561	7.563	3345543	2211628	1.028	0.981
21) A Methoxychlor	6.246	8.094	1891298	1425880	1.341	1.359
22) Mirex	6.374	8.395	3241201	2270490	1.098	1.058
23) B Endrin Ke...	6.989	8.458	4086453	2784652	1.022	0.960
-----						

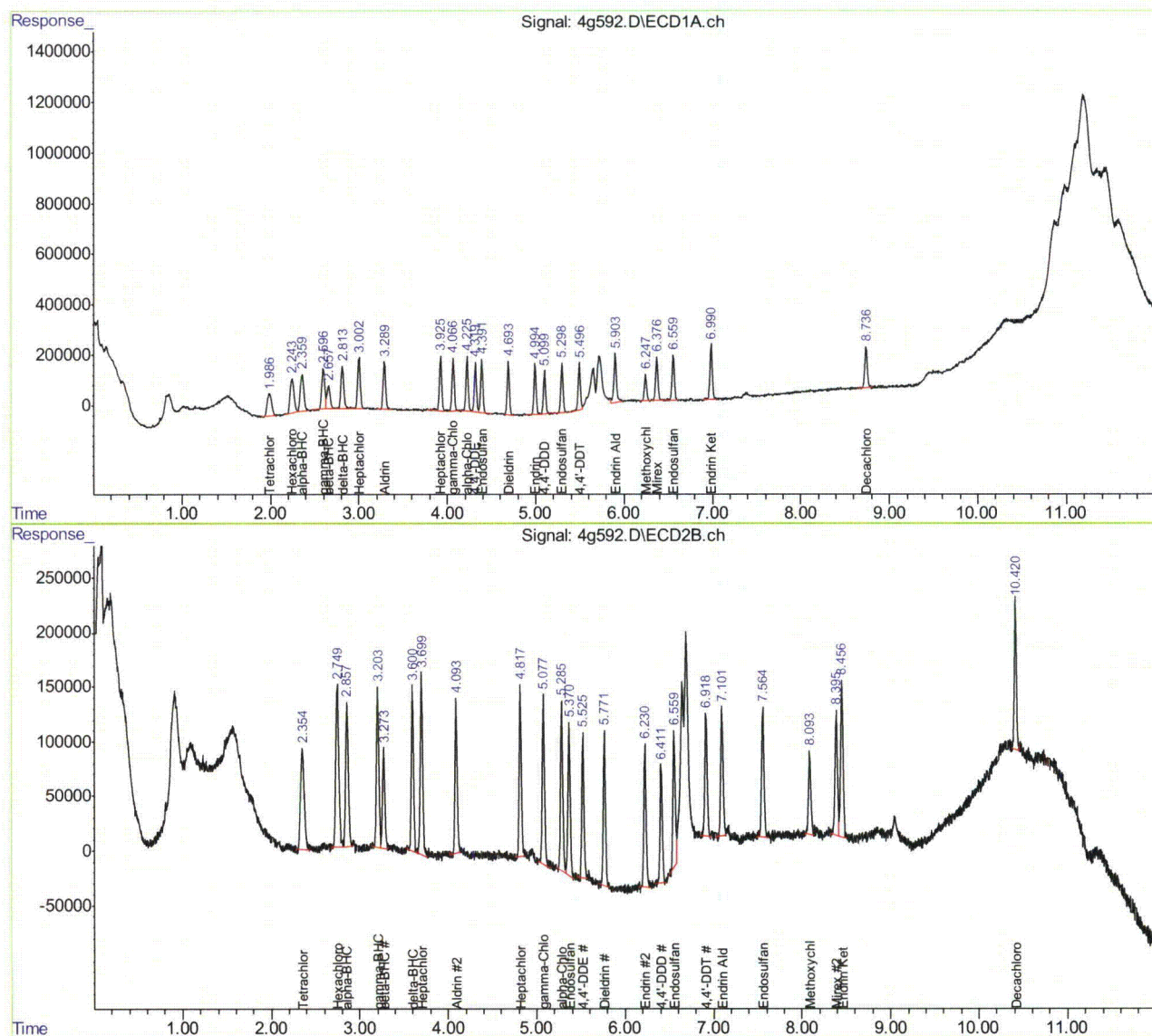
(f)=RT Delta &gt; 1/2 Window (#)=Amounts differ by &gt; 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
Data File : 4g592.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 21 Oct 2010 4:27 pm  
Operator : owenm  
Sample : ic19-1  
Misc : op46271,g4g19,17.0,,,10,1  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 22 09:41:11 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
Quant Title : PEST/PCB  
QLast Update : Thu Oct 21 10:11:07 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



10.6.37 10

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** G4G19-IC19      **Method:** SW846 8081A  
**Lab FileID:** 4G592.D      **Analyst approved:** 10/22/10 11:16 Owen McKenna  
**Injection Time:** 10/21/10 16:27      **Supervisor approved:** 10/22/10 11:37 Owen McKenna

Parameter	CAS	Sig#	R.T. (min.)	Reason
Decachlorobiphenyl	2051-24-3	2	10.42	Poorly defined baseline

10.6.37.1

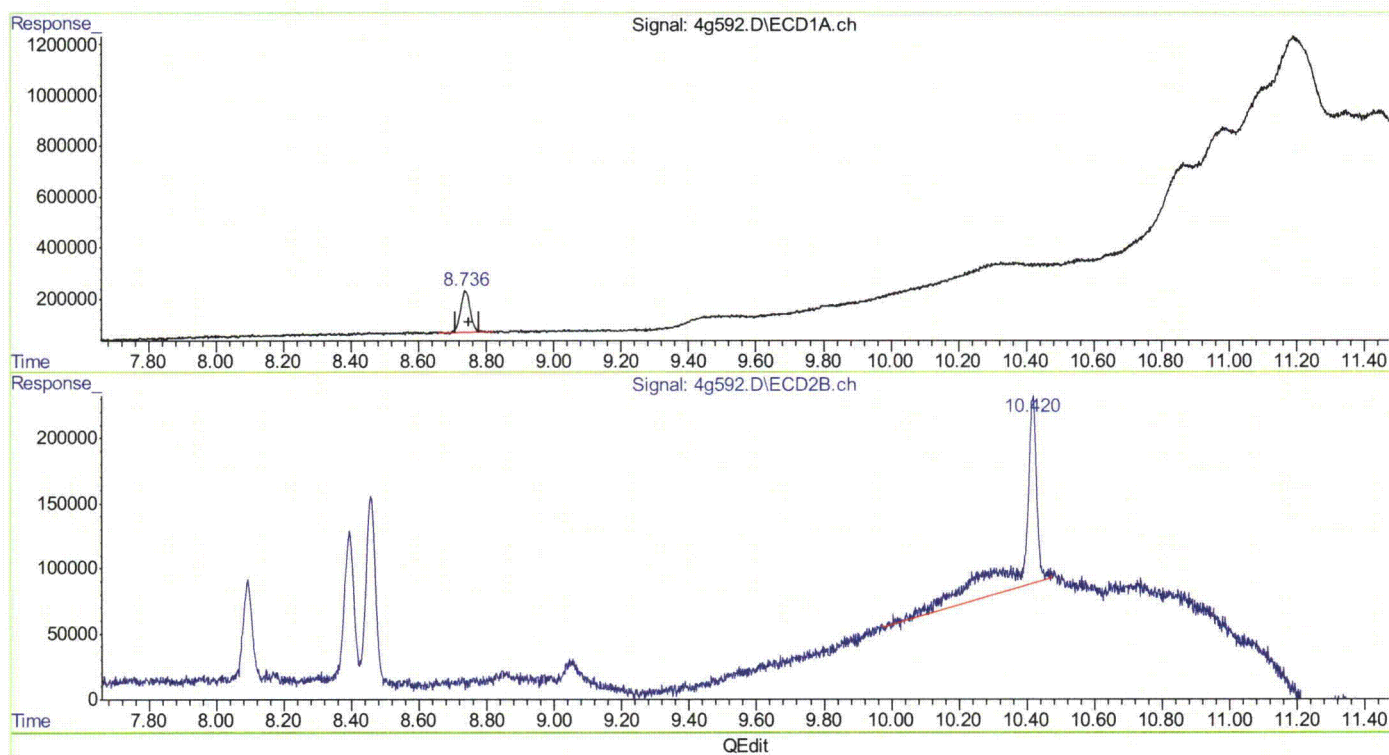
10

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4g19\  
Data File : 4g592.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 21 Oct 2010 4:27 pm  
Operator : owenm  
Sample : ic19-1  
Misc : op46271,g4g19,17.0,,,10,1  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 22 09:40:37 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
Quant Title : PEST/PCB  
QLast Update : Thu Oct 21 10:11:07 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



(34) Decachlorobiphenyl (SA)

8.739min 1.090 PPB

response 3297011

(34) Decachlorobiphenyl #2 (SA)

10.419min 2.229 PPB

response 4556582

(+) = Expected Retention Time  
4PST19.M Fri Oct 22 09:41:01 2010 RPT1

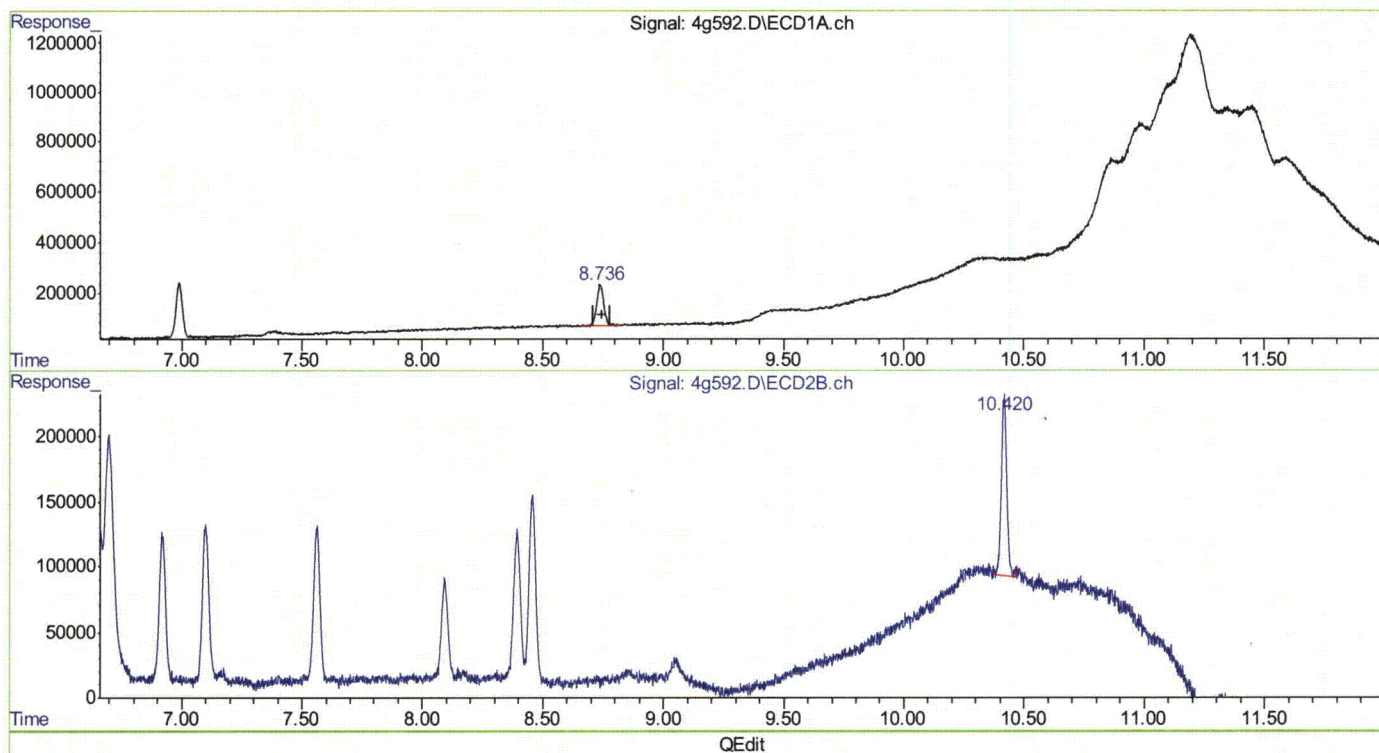
Page: 1

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4g19\  
Data File : 4g592.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 21 Oct 2010 4:27 pm  
Operator : owenm  
Sample : ic19-1  
Misc : op46271,g4g19,17.0,,,10,1  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 22 09:40:37 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
Quant Title : PEST/PCB  
QLast Update : Thu Oct 21 10:11:07 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



(34) Decachlorobiphenyl (SA)

8.739min 1.090 PPB

response 3297011

(34) Decachlorobiphenyl #2 (SA)

10.420min 1.061 PPB m

response 2168761

(+) = Expected Retention Time  
4PST19.M Fri Oct 22 09:41:05 2010 RPT1

Page: 1

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
 Data File : 4g593.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 21 Oct 2010 4:40 pm  
 Operator : owenm  
 Sample : ic19-2  
 Misc : op46271,g4g19,17.0,,,10,1  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Oct 22 09:40:00 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
 Quant Title : PEST/PCB  
 QLast Update : Thu Oct 21 10:11:07 2010  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachlo...	1.988	2.351	6702475	5421976	2.022	1.929
Spiked Amount	40.000 Range	30 - 150	Recovery	=	5.05%#	4.82%#
34) SA Decachlor...	8.737	10.418	6405549	4219552	2.117	2.065
Spiked Amount	40.000 Range	30 - 150	Recovery	=	5.29%#	5.16%#
Target Compounds						
2) Hexachlor...	2.242	2.745	8591668	7021576	2.111	1.991
3) A alpha-BHC	2.355	2.856	8586635	5658582	1.840	1.732
4) MA gamma-BHC	2.594	3.203	8029978	5688648	1.893	1.840
5) MA Heptachlor	2.998	3.700	8594123	6097906	2.046	1.962
6) B beta-BHC	2.654	3.270	4604961	3319240	2.222	1.968
7) B delta-BHC	2.810	3.598	7576823	5287255	1.860	1.867
8) MB Aldrin	3.286	4.090	7763580	4991744	1.897	1.851
9) B Heptachlo...	3.923	4.817	7712222	5300442	1.945	1.823
10) B gamma-Chl...	4.065	5.079	7669196	5353557	1.944	1.852
11) B alpha-Chl...	4.222	5.285	7665610	5409690	1.987	1.914
12) A Endosulfan I	4.389	5.369	7521785	4873943	2.011	1.843
13) B 4,4'-DDE	4.317	5.524	6838875	4429334	1.838	1.808
14) MA Dieldrin	4.689	5.768	7453988	4866923	1.881	1.755
15) MA Endrin	4.992	6.227	6924594	4615785	1.930	1.847
16) A 4,4'-DDD	5.099	6.411	5986738	3878060	1.599	1.494
17) B Endosulfa...	5.296	6.557	7013422	4630021	1.971	1.770
18) MA 4,4'-DDT	5.492	6.919	6202934	4162106	2.666	2.847
19) B Endrin Al...	5.899	7.099	6206758	4187589	2.019	1.927
20) B Endosulfa...	6.558	7.561	6584624	4438480	2.023	1.968
21) A Methoxychlor	6.244	8.092	3848009	2720210	2.728	2.593
22) Mirex	6.372	8.393	6452401	4551655	2.186	2.120
23) B Endrin Ke...	6.986	8.457	8014745	5517596	2.004	1.902
-----						

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

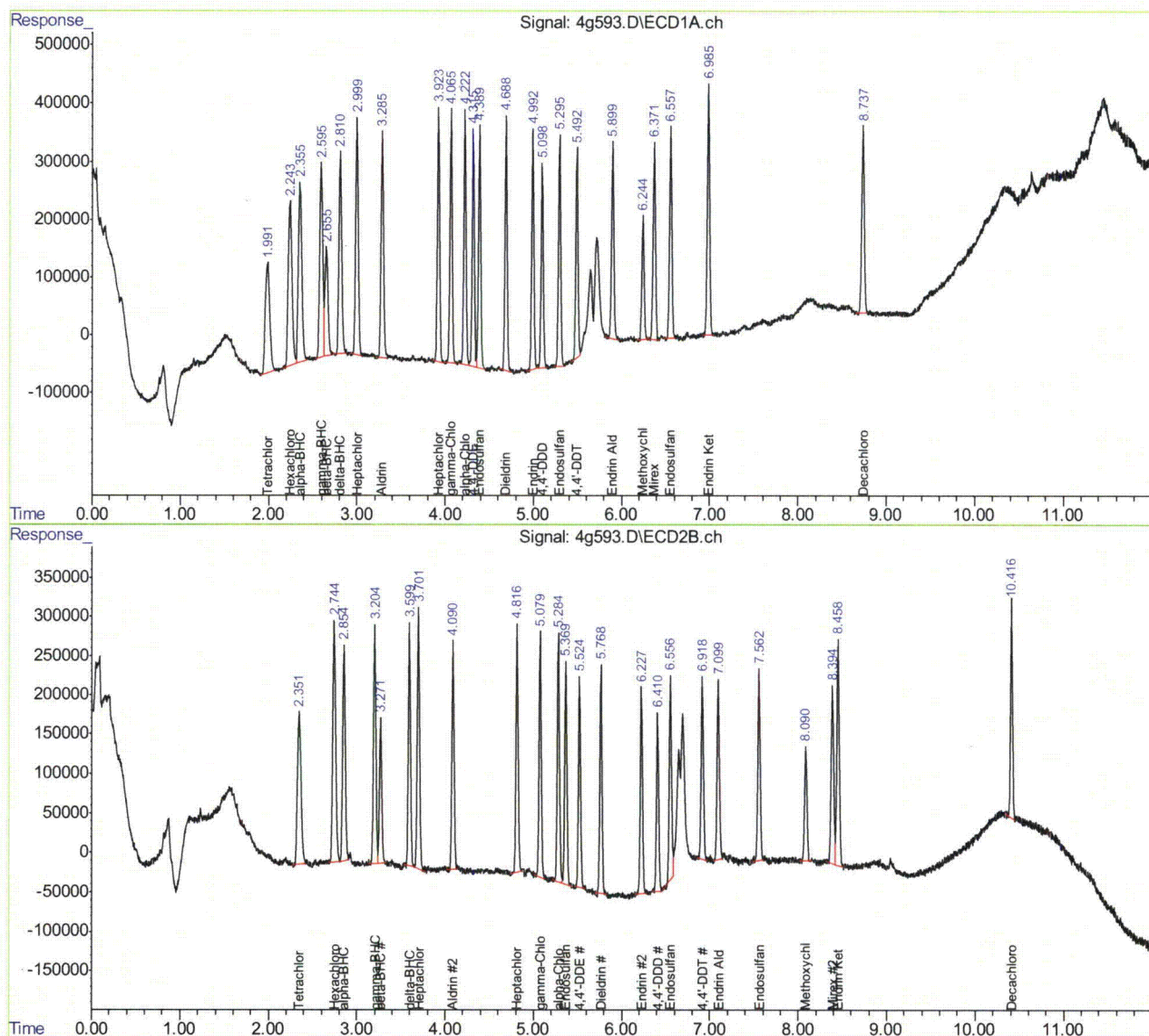
10.6.38 10

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
Data File : 4g593.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 21 Oct 2010 4:40 pm  
Operator : owenm  
Sample : ic19-2  
Misc : op46271,g4g19,17.0,,,10,1  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 22 09:40:00 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
Quant Title : PEST/PCB  
QLast Update : Thu Oct 21 10:11:07 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
 Data File : 4g594.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 21 Oct 2010 4:54 pm  
 Operator : owenm  
 Sample : ic19-5  
 Misc : op46271,g4g19,17.0,,,10,1  
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Oct 22 09:38:57 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
 Quant Title : PEST/PCB  
 QLast Update : Thu Oct 21 10:11:07 2010  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachlo...	1.989	2.351	15770594	12836382	4.757	4.566
Spiked Amount	40.000 Range	30 - 150	Recovery	=	11.89%#	11.42%#
34) SA Decachlor...	8.737	10.418	15435499	10031206	5.101	4.908
Spiked Amount	40.000 Range	30 - 150	Recovery	=	12.75%#	12.27%#
Target Compounds						
2) Hexachlor...	2.244	2.746	19685125	16793646	4.836	4.762
3) A alpha-BHC	2.356	2.856	20684127	14649409	4.433	4.483
4) MA gamma-BHC	2.596	3.204	19126044	14226218	4.508	4.601
5) MA Heptachlor	2.999	3.701	20598683	14645257	4.904	4.711
6) B beta-BHC	2.656	3.271	10113965	7996360	4.881	4.740
7) B delta-BHC	2.811	3.598	18517199	13227718	4.547	4.670
8) MB Aldrin	3.286	4.092	18365313	12233761	4.487	4.535
9) B Heptachlo...	3.924	4.818	18393105	12961344	4.638	4.458
10) B gamma-Chl...	4.066	5.079	18165736	12917111	4.605	4.469
11) B alpha-Chl...	4.223	5.286	18225318	12865031	4.725	4.553
12) A Endosulfan I	4.390	5.370	17472170	11808990	4.671	4.465
13) B 4,4'-DDE	4.318	5.525	16701167	10954182	4.488	4.470
14) MA Dieldrin	4.690	5.769	18075787	11997252	4.562	4.325
15) MA Endrin	4.993	6.229	17039384	11181745	4.748	4.473
16) A 4,4'-DDD	5.100	6.412	14522501	9477997	3.880	3.652
17) B Endosulfa...	5.297	6.558	16551530	11445012	4.652	4.376
18) MA 4,4'-DDT	5.493	6.920	14765607	10112796	6.347	6.916
19) B Endrin Al...	5.900	7.100	14187479	9929667	4.616	4.569
20) B Endosulfa...	6.559	7.562	15793907	10683711	4.851	4.738
21) A Methoxychlor	6.245	8.093	8865389	6537223	6.286	6.232
22) Mirex	6.372	8.393	14666582	10521765	4.968	4.901
23) B Endrin Ke...	6.987	8.458	19630092	13586985	4.908	4.683
-----						

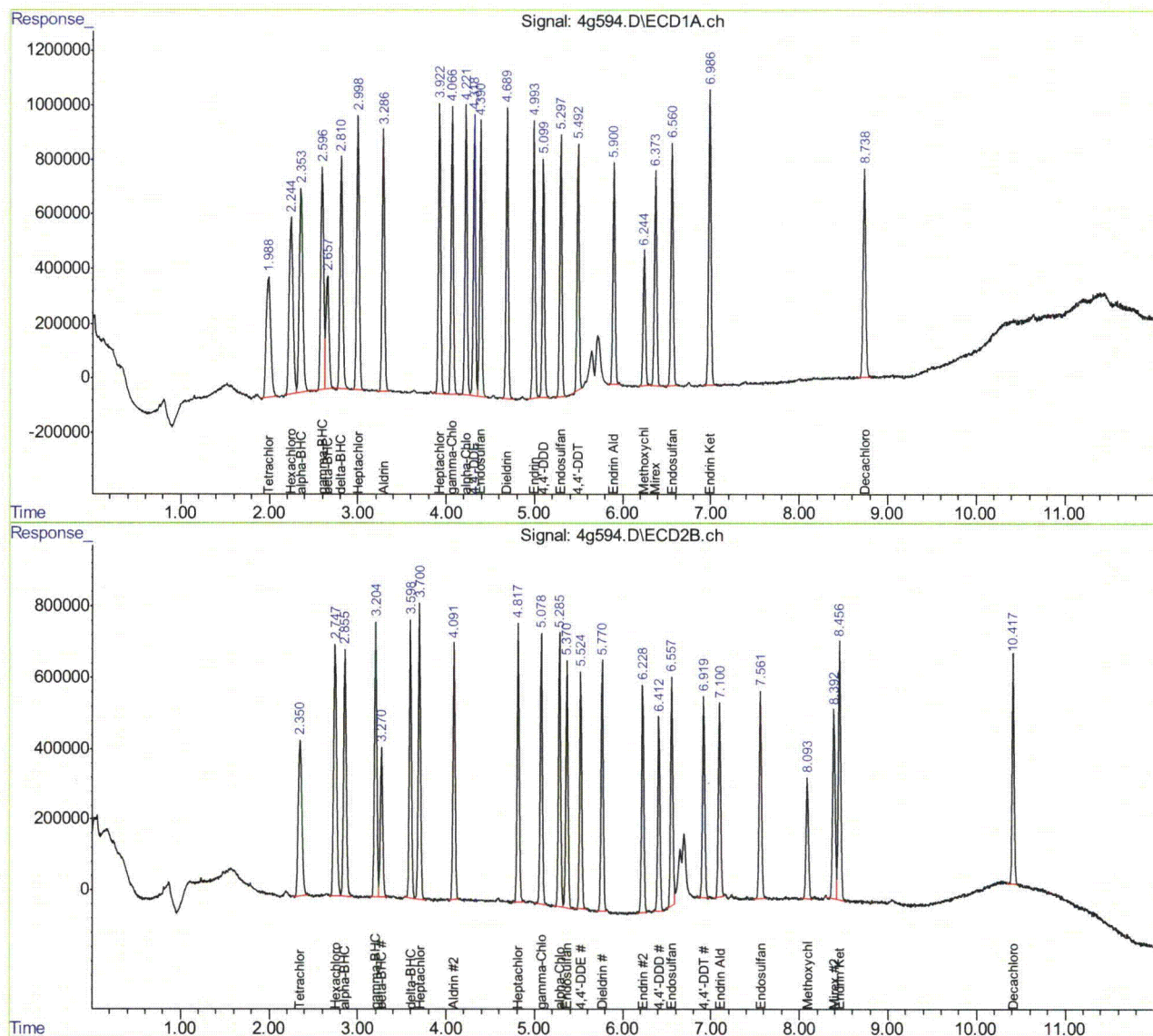
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
Data File : 4g594.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 21 Oct 2010 4:54 pm  
Operator : owenm  
Sample : ic19-5  
Misc : op46271,g4g19,17.0,,,10,1  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 22 09:38:57 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
Quant Title : PEST/PCB  
QLast Update : Thu Oct 21 10:11:07 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
 Data File : 4g595.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 21 Oct 2010 5:07 pm  
 Operator : owenm  
 Sample : ic19-10  
 Misc : op46271,g4g19,17.0,,,10,1  
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Oct 22 09:38:01 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
 Quant Title : PEST/PCB  
 QLast Update : Thu Oct 21 10:11:07 2010  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachlo...	1.988	2.351	33952836	28250564	10.241	10.049
Spiked Amount	40.000 Range	30 - 150	Recovery	=	25.60%#	25.12%#
34) SA Decachlor...	8.736	10.416	32282810	20971708	10.669	10.261
Spiked Amount	40.000 Range	30 - 150	Recovery	=	26.67%#	25.65%#
Target Compounds						
2) Hexachlor...	2.242	2.745	41503226	35680970	10.195	10.119
3) A alpha-BHC	2.355	2.856	46791522	33775171	10.027	10.336
4) MA gamma-BHC	2.594	3.204	42789209	32750322	10.086	10.593
5) MA Heptachlor	2.998	3.700	44632623	32429023	10.627	10.432
6) B beta-BHC	2.654	3.271	21225070	17327031	10.242	10.272
7) B delta-BHC	2.810	3.598	41743524	30992421	10.249	10.942
8) MB Aldrin	3.286	4.092	40555094	27829464	9.908	10.317
9) B Heptachlo...	3.923	4.818	39514920	28656323	9.964	9.857
10) B gamma-Chl...	4.065	5.078	39210476	28566642	9.940	9.883
11) B alpha-Chl...	4.222	5.285	38835746	28276891	10.068	10.007
12) A Endosulfan I	4.389	5.369	37443560	26089455	10.011	9.864
13) B 4,4'-DDE	4.317	5.525	37183516	25186570	9.993	10.278
14) MA Dieldrin	4.689	5.769	39791167	26622216	10.043	9.598
15) MA Endrin	4.992	6.228	37379147	25153893	10.416	10.063
16) A 4,4'-DDD	5.099	6.411	32136872	21545715	8.586	8.301
17) B Endosulfa...	5.296	6.556	35929499	24451618	10.099	9.348
18) MA 4,4'-DDT	5.492	6.919	33335575	23030620	14.330	15.751
19) B Endrin Al...	5.900	7.098	30521332	22153405	9.929	10.193
20) B Endosulfa...	6.558	7.561	34002285	23726627	10.445	10.522
21) A Methoxychlor	6.243	8.091	19438393	14261660	13.782	13.597
22) Mirex	6.371	8.392	30523201	22424022	10.339	10.445
23) B Endrin Ke...	6.986	8.457	42290680	30159452	10.574	10.394
-----						

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

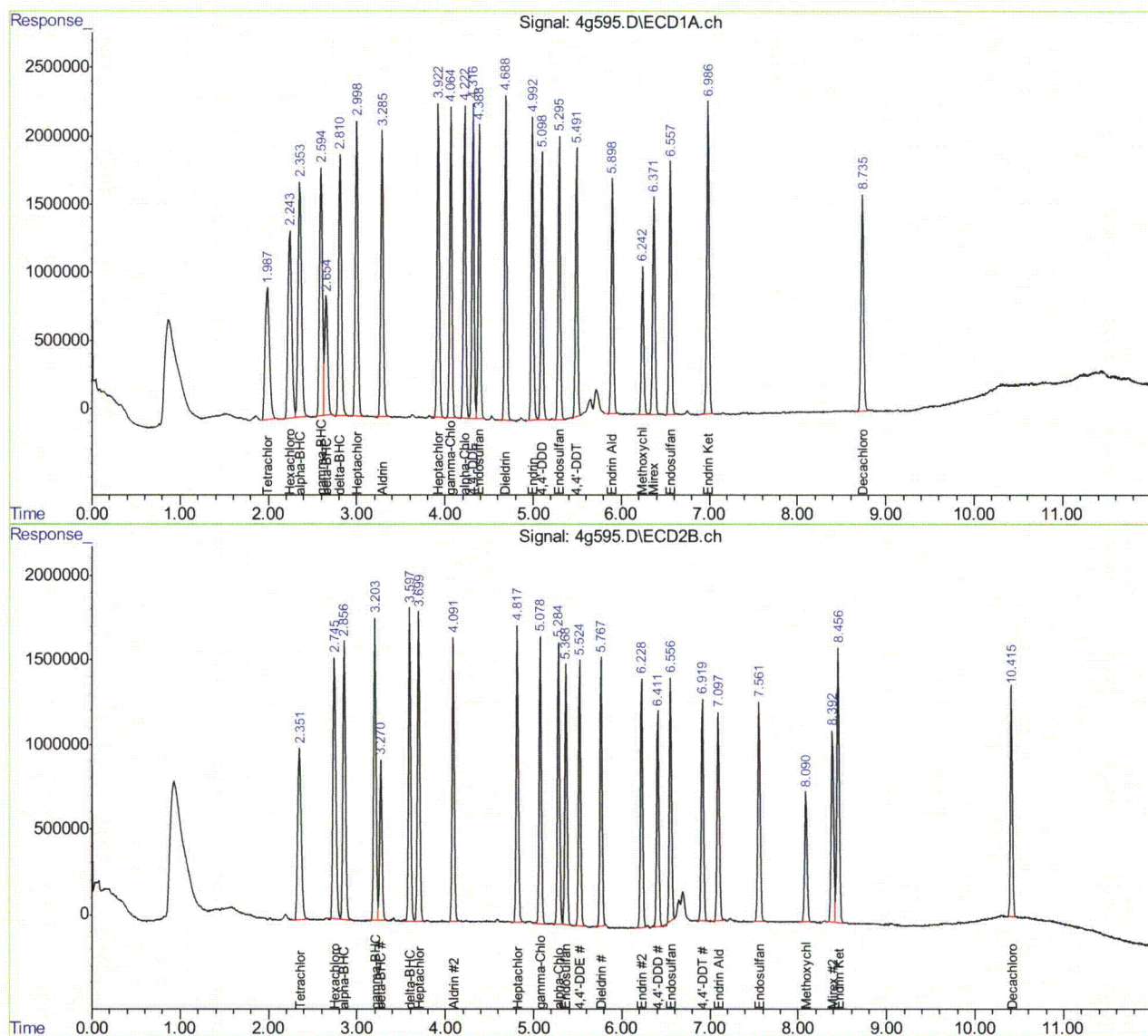
10.6.40 10

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
Data File : 4g595.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 21 Oct 2010 5:07 pm  
Operator : owenm  
Sample : ic19-10  
Misc : op46271,g4g19,17.0,,,10,1  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 22 09:38:01 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
Quant Title : PEST/PCB  
QLast Update : Thu Oct 21 10:11:07 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
 Data File : 4g596.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 21 Oct 2010 5:20 pm  
 Operator : owenm  
 Sample : icc19-25  
 Misc : op46271,g4g19,17.0,,,10,1  
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Oct 22 09:36:12 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
 Quant Title : PEST/PCB  
 QLast Update : Thu Oct 21 10:11:07 2010  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachlo...	1.986	2.350	79967595	68100026	24.119	24.224
Spiked Amount	40.000 Range	30 - 150	Recovery	=	60.30%	60.56%
34) SA Decachlor...	8.736	10.417	72785012	47478867	24.055	23.231
Spiked Amount	40.000 Range	30 - 150	Recovery	=	60.14%	58.08%
Target Compounds						
2) Hexachlor...	2.242	2.745	95287478	84838650	23.408	24.059
3) A alpha-BHC	2.354	2.856	116.0E6	89462138	24.868	27.379
4) MA gamma-BHC	2.593	3.204	105.1E6	84352950	24.773	27.283
5) MA Heptachlor	2.998	3.700	107.9E6	80276830	25.691	25.825
6) B beta-BHC	2.654	3.271	48723282	41008516	23.512	24.311
7) B delta-BHC	2.809	3.599	104.3E6	80878494	25.607	28.554
8) MB Aldrin	3.285	4.092	99243591	71752061	24.247	26.600
9) B Heptachlo...	3.923	4.819	95274507	70963368	24.023	24.409
10) B gamma-Chl...	4.065	5.079	94398922	70127874	23.930	24.263
11) B alpha-Chl...	4.222	5.285	92514626	69391406	23.985	24.557
12) A Endosulfan I	4.389	5.370	89143666	64559400	23.833	24.409
13) B 4,4'-DDE	4.317	5.525	92071489	64981126	24.744	26.517
14) MA Dieldrin	4.689	5.769	97181607	67840765	24.528	24.458
15) MA Endrin	4.993	6.228	91115071	63110831	25.390	25.249
16) A 4,4'-DDD	5.099	6.412	78471490	54837494	20.964	21.129
17) B Endosulfa...	5.297	6.557	85264743	61513803	23.967	23.518
18) MA 4,4'-DDT	5.492	6.920	81809931	57453055	35.168	39.294
19) B Endrin Al...	5.900	7.099	71070828	52558807	23.121	24.183
20) B Endosulfa...	6.559	7.562	79463801	57196772	24.409	25.364
21) A Methoxychlor	6.244	8.092	44268699	33678546	31.388	32.108
22) Mirex	6.372	8.392	68128316	50827667	23.076	23.675
23) B Endrin Ke...	6.987	8.457	100.4E6	73591719	25.101	25.362
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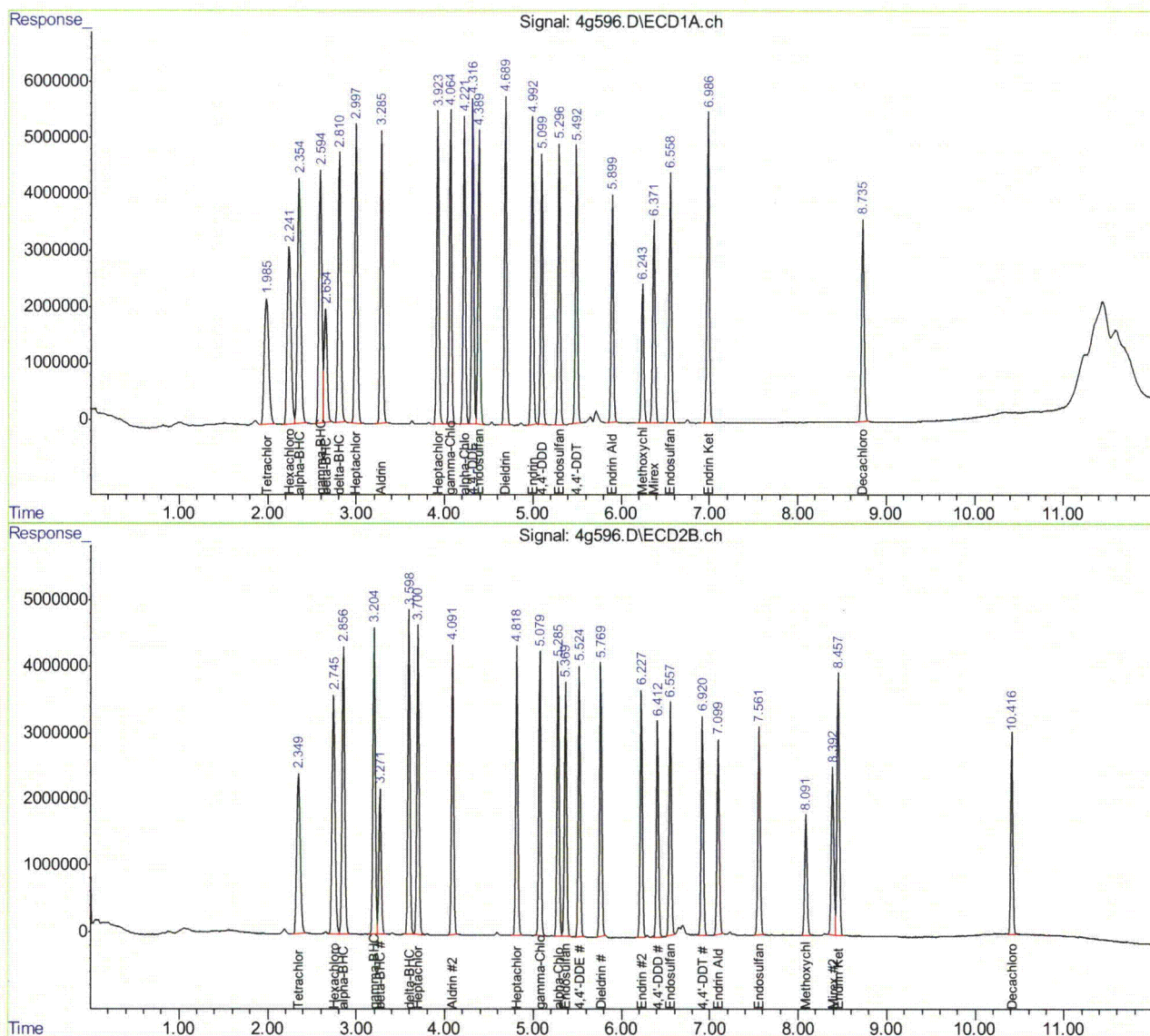
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
Data File : 4g596.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 21 Oct 2010 5:20 pm  
Operator : owenm  
Sample : icc19-25  
Misc : op46271,g4g19,17.0,,,10,1  
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 22 09:36:12 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
Quant Title : PEST/PCB  
QLast Update : Thu Oct 21 10:11:07 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
 Data File : 4g597.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 21 Oct 2010 5:34 pm  
 Operator : owenm  
 Sample : ic19-50  
 Misc : op46271,g4g19,17.0,,,10,1  
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Oct 22 09:36:37 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
 Quant Title : PEST/PCB  
 QLast Update : Thu Oct 21 10:11:07 2010  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) SAB Tetrachlo...	1.990	2.353	162.6E6	140.5E6	49.042	49.987
Spiked Amount	40.000	Range	30 - 150	Recovery	= 122.61%	124.97%
34) SA Decachlor...	8.735	10.417	142.1E6	91361578	46.956	44.702
Spiked Amount	40.000	Range	30 - 150	Recovery	= 117.39%	111.76%
Target Compounds						
2) Hexachlor...	2.245	2.747	188.1E6	169.8E6	46.196	48.149
3) A alpha-BHC	2.358	2.858	244.2E6	198.0E6	52.325	60.588
4) MA gamma-BHC	2.596	3.205	218.6E6	183.1E6	51.533	59.206
5) MA Heptachlor	3.000	3.701	222.7E6	172.2E6	53.034	55.389
6) B beta-BHC	2.656	3.272	95445932	82589078	46.058	48.960
7) B delta-BHC	2.812	3.599	220.5E6	179.2E6	54.132	63.253
8) MB Aldrin	3.287	4.092	206.1E6	156.6E6	50.353	58.042
9) B Heptachlo...	3.923	4.818	195.5E6	150.7E6	49.300	51.837
10) B gamma-Chl...	4.066	5.079	194.7E6	148.8E6	49.347	51.469
11) B alpha-Chl...	4.223	5.286	189.2E6	145.8E6	49.061	51.588
12) A Endosulfan I	4.390	5.370	182.5E6	136.7E6	48.786	51.683
13) B 4,4'-DDE	4.318	5.525	192.4E6	142.6E6	51.709	58.203
14) MA Dieldrin	4.689	5.769	202.0E6	147.5E6	50.985	53.171
15) MA Endrin	4.992	6.228	189.1E6	136.1E6	52.685	54.468
16) A 4,4'-DDD	5.099	6.412	162.9E6	118.4E6	43.523	45.618
17) B Endosulfa...	5.296	6.557	174.0E6	130.3E6	48.910	49.813
18) MA 4,4'-DDT	5.492	6.919	170.3E6	123.4E6	73.220	84.398
19) B Endrin Al...	5.899	7.099	144.5E6	108.4E6	47.024	49.872
20) B Endosulfa...	6.558	7.561	161.1E6	118.8E6	49.473	52.668
21) A Methoxychlor	6.243	8.092	87720690	67306840	62.197	64.168
22) Mirex	6.371	8.393	132.7E6	99584331	44.959	46.386
23) B Endrin Ke...	6.986	8.457	204.0E6	153.8E6	51.004	53.013
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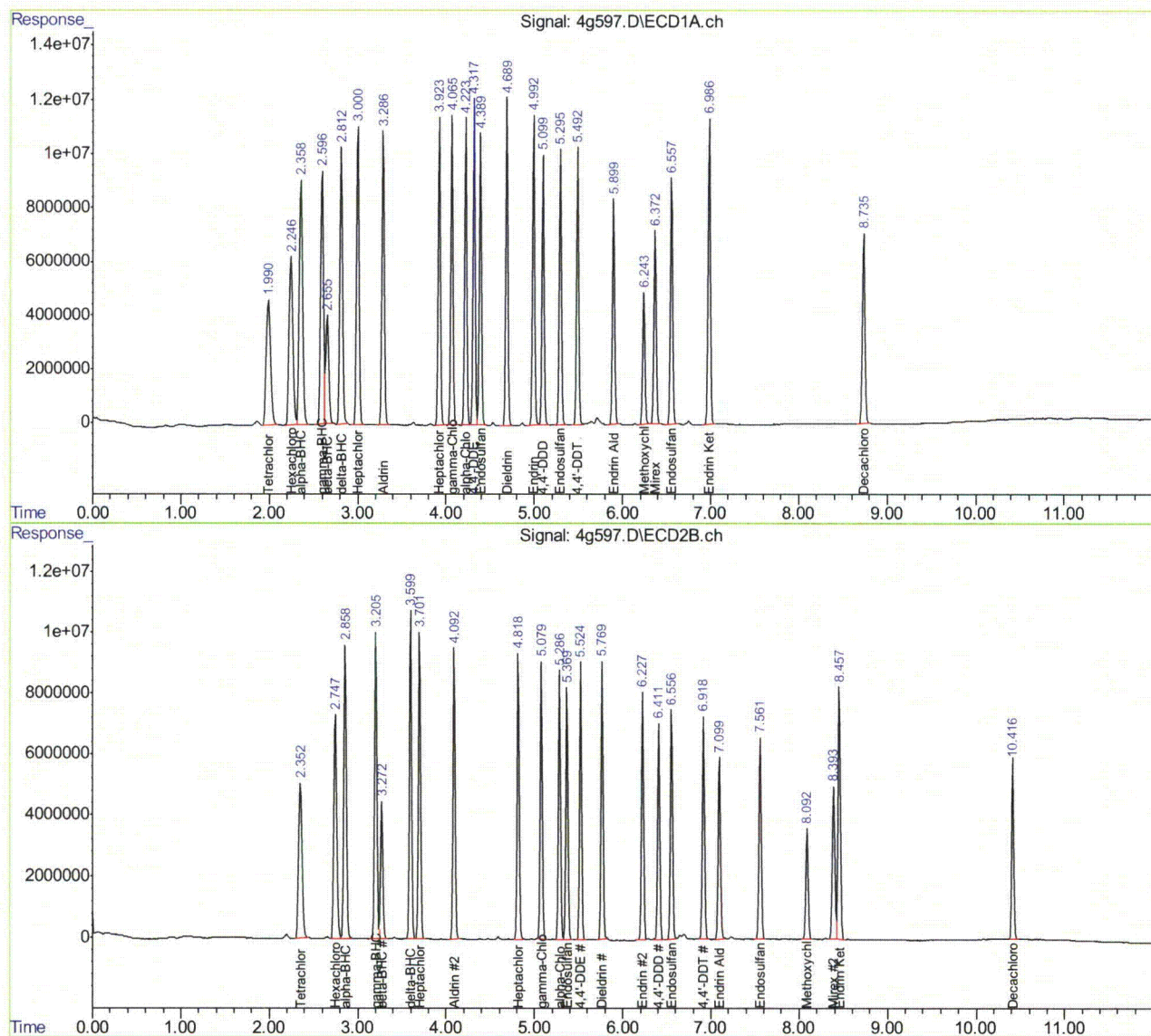
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
Data File : 4g597.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 21 Oct 2010 5:34 pm  
Operator : owenm  
Sample : ic19-50  
Misc : op46271,g4g19,17.0,,,10,1  
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 22 09:36:37 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
Quant Title : PEST/PCB  
QLast Update : Thu Oct 21 10:11:07 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
 Data File : 4g598.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 21 Oct 2010 5:47 pm  
 Operator : owenm  
 Sample : ic19-100  
 Misc : op46271,g4g19,17.0,,,10,1  
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Oct 22 09:37:04 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
 Quant Title : PEST/PCB  
 QLast Update : Thu Oct 21 10:11:07 2010  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1ul/column  
 Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
 Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----							
System Monitoring Compounds							
1)	SAB Tetrachlo...	1.988	2.351	387.8E6	347.1E6	116.976	123.453
	Spiked Amount	40.000 Range	30 - 150	Recovery	=	292.44%#	308.63%#
34)	SA Decachlor...	8.735	10.418	333.1E6	215.4E6	110.080	105.371
	Spiked Amount	40.000 Range	30 - 150	Recovery	=	275.20%#	263.43%#
Target Compounds							
2)	Hexachlor...	2.243	2.746	440.4E6	405.4E6	108.185	114.963
3)	A alpha-BHC	2.356	2.858	608.2E6	522.7E6	130.332	159.978
4)	MA gamma-BHC	2.595	3.204	541.8E6	474.0E6	127.708	153.315
5)	MA Heptachlor	2.999	3.701	544.6E6	442.4E6	129.655	142.304
6)	B beta-BHC	2.655	3.272	226.5E6	199.8E6	109.282	118.418
7)	B delta-BHC	2.810	3.599	551.8E6	471.7E6	135.493	166.524
8)	MB Aldrin	3.286	4.092	505.7E6	408.3E6	123.559	151.354
9)	B Heptachlo...	3.923	4.819	477.7E6	385.9E6	120.446	132.732
10)	B gamma-Chl...	4.066	5.079	479.3E6	382.6E6	121.499	132.357
11)	B alpha-Chl...	4.222	5.286	461.9E6	369.9E6	119.745	130.890
12)	A Endosulfan I	4.389	5.370	445.2E6	349.6E6	119.035	132.170
13)	B 4,4'-DDE	4.317	5.526	478.1E6	375.2E6	128.499	153.115
14)	MA Dieldrin	4.689	5.769	497.7E6	391.0E6	125.616	140.972
15)	MA Endrin	4.992	6.229	467.4E6	354.9E6	130.254	141.975
16)	A 4,4'-DDD	5.099	6.412	405.8E6	311.1E6	108.415	119.858
17)	B Endosulfa...	5.296	6.558	425.3E6	332.7E6	119.547	127.214
18)	MA 4,4'-DDT	5.492	6.920	422.6E6	318.1E6	181.646	217.570
19)	B Endrin Al...	5.900	7.100	352.1E6	270.5E6	114.531	124.448
20)	B Endosulfa...	6.558	7.563	389.7E6	297.8E6	119.720	132.082
21)	A Methoxychlor	6.243	8.093	205.8E6	159.9E6	145.893	152.478
22)	Mirex	6.372	8.393	310.8E6	237.9E6	105.266	110.822
23)	B Endrin Ke...	6.986	8.458	493.1E6	386.1E6	123.289	133.050
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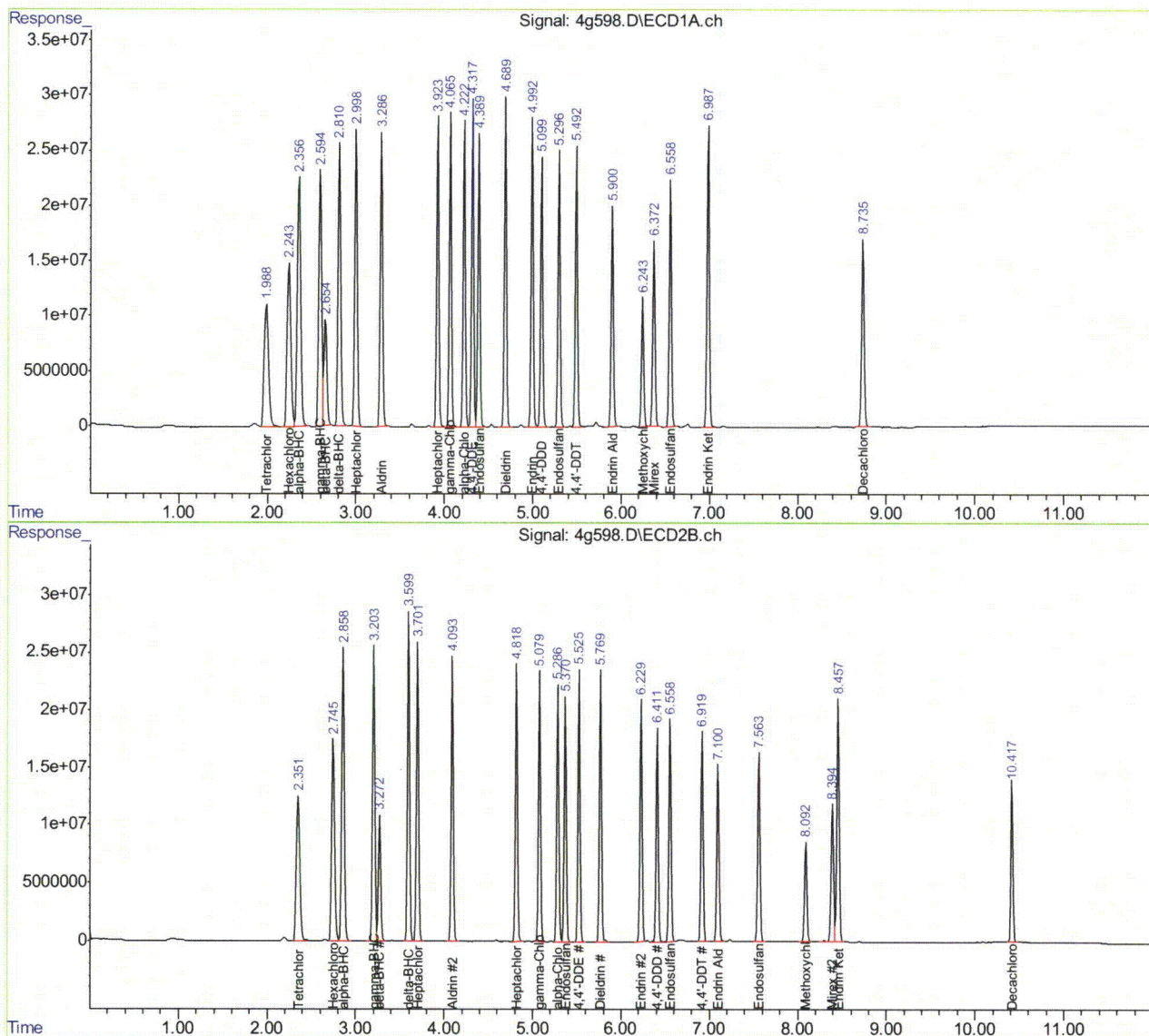
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4g19\  
Data File : 4g598.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 21 Oct 2010 5:47 pm  
Operator : owenm  
Sample : ic19-100  
Misc : op46271,g4g19,17.0,,,10,1  
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Oct 22 09:37:04 2010  
Quant Method : C:\MSDCHEM\1\METHODS\4PST19.M  
Quant Title : PEST/PCB  
QLast Update : Thu Oct 21 10:11:07 2010  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1ul/column  
Signal #1 Phase : RTXCLP II Signal #2 Phase: RTX-CLP I  
Signal #1 Info : 30mx.32mmx.25um Signal #2 Info : 30m x .32mm x .50um



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