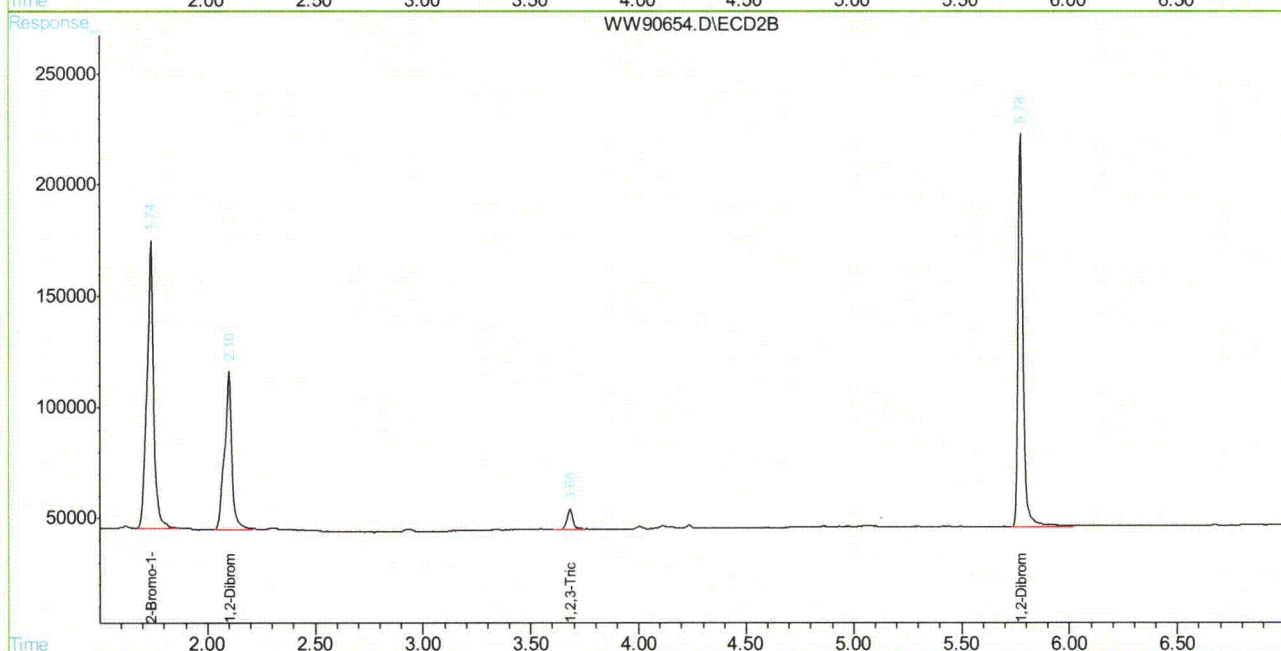
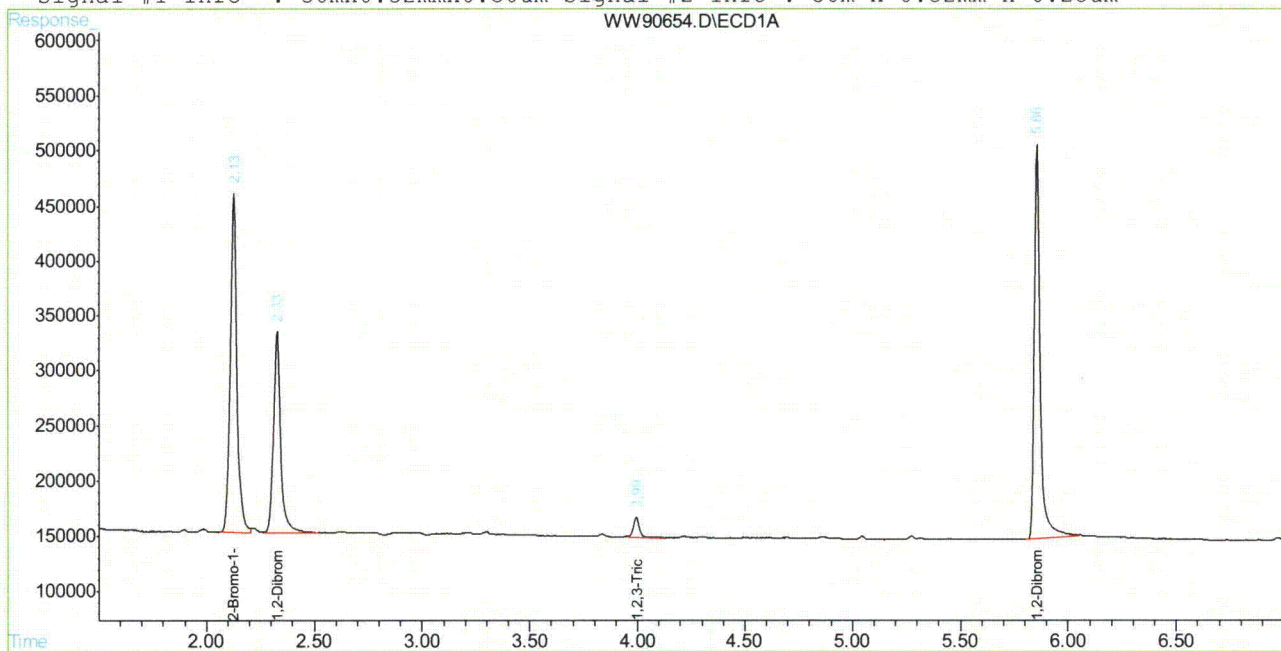


## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90654.D\ECD1A.CH Vial: 18  
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90654.D\ECD2B.CH  
Acq On : 27 May 2010 5:48 pm Operator: toyar  
Sample : IC3173-1.0 Inst : GCWW  
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: May 28 8:50 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)  
Title : GC/ECD- EDB  
Last Update : Fri May 28 08:48:44 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um



WW90654.D 504M3173.M

Fri May 28 08:50:51 2010

GCCD

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## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90655.D\ECD1A.CH Vial: 19  
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90655.D\ECD2B.CH  
Acq On : 27 May 2010 6:03 pm Operator: toyar  
Sample : IC3173-2.0 Inst : GCWW  
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: May 28 8:54 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)  
Title : GC/ECD- EDB  
Last Update : Fri May 28 08:52:12 2010  
Response via : Initial Calibration  
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S 2-Bromo-1-Chloro	2.13	1.74	12349176	5070693	18.077	18.151
Spiked Amount	10.000		Recovery	=	180.77%	181.51%
Target Compounds						
2) 1,2-Dibromoethan	2.33	2.10	8397770	3308485	1.860	1.950
3) 1,2,3-Trichlorop	3.99	3.68	683939	336914	1.875	1.706
4) 1,2-Dibromo-3-Ch	5.86	5.78	14637608	5973402	2.174	2.095

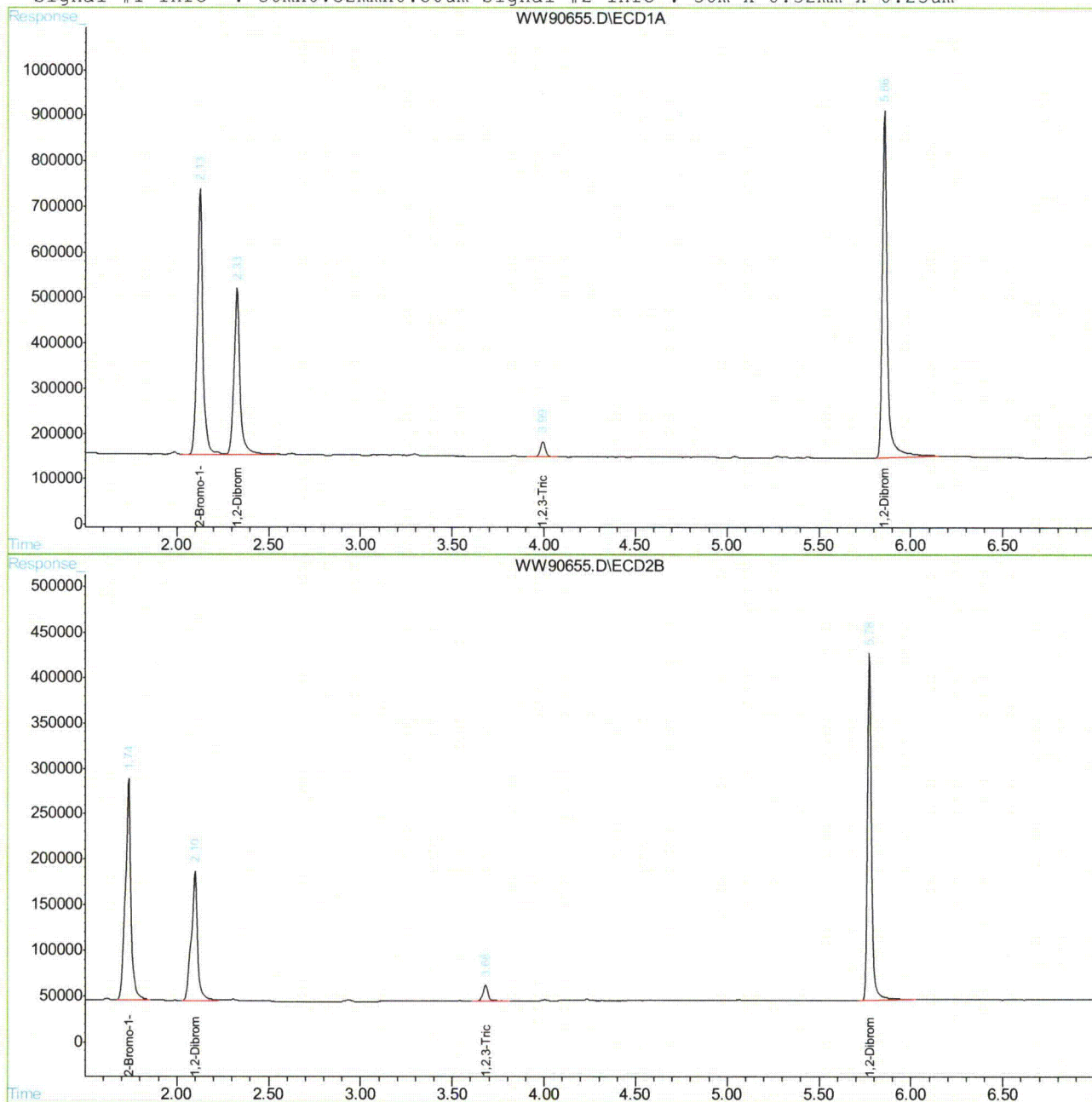
-----  
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
WW90655.D 504M3173.M Fri May 28 08:55:15 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90655.D\ECD1A.CH Vial: 19  
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90655.D\ECD2B.CH  
Acq On : 27 May 2010 6:03 pm Operator: toyar  
Sample : IC3173-2.0 Inst : GCWW  
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: May 28 8:54 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)  
Title : GC/ECD- EDB  
Last Update : Fri May 28 08:52:12 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um



WW90655.D 504M3173.M

Fri May 28 08:55:16 2010

GCCD

Page 2

Owen McKenna  
06/03/10 09:35

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90656.D\ECD1A.CH Vial: 20  
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90656.D\ECD2B.CH  
Acq On : 27 May 2010 6:18 pm Operator: toyar  
Sample : ICV3173-0.5 Inst : GCWW  
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: May 28 9:38 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)  
Title : GC/ECD- EDB  
Last Update : Fri May 28 09:36:59 2010  
Response via : Initial Calibration  
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S 2-Bromo-1-Chloro	2.13	1.74	3054889	1288893	4.472	4.614
Spiked Amount	10.000		Recovery	=	44.72%	46.14%
Target Compounds						
2) 1,2-Dibromoethan	2.33	2.10	2063084	818458	0.457	0.482
3) 1,2,3-Trichlorop	3.99	3.68	187342	91076	0.514	0.460m
4) 1,2-Dibromo-3-Ch	5.86	5.78	3351991	1396122	0.498	0.489

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
WW90656.D 504M3173.M Fri May 28 09:38:21 2010 GCCD

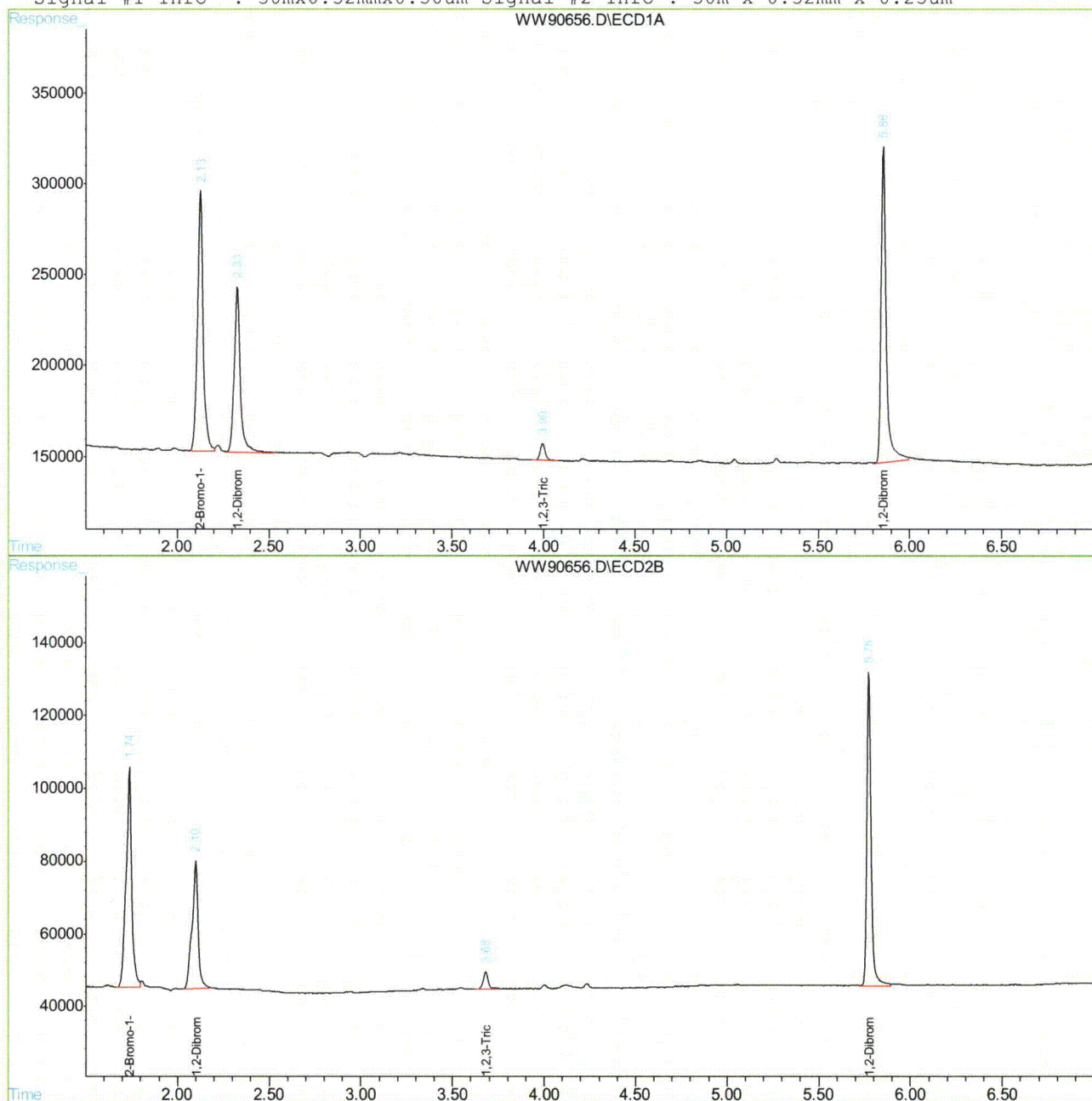


## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90656.D\ECD1A.CH Vial: 20  
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90656.D\ECD2B.CH  
Acq On : 27 May 2010 6:18 pm Operator: toyar  
Sample : ICV3173-0.5 Inst : GCWW  
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: May 28 9:38 2010 Quant Results File: 504M3173.RES

Quant Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)  
Title : GC/ECD- EDB  
Last Update : Fri May 28 09:36:59 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : 504M3173.M

Volume Inj. : 1UL/COLUMN  
Signal #1 Phase : RTXCLP Signal #2 Phase: RTXCLPII  
Signal #1 Info : 30mx0.32mmx0.50um Signal #2 Info : 30m x 0.32mm x 0.25um



WW90656.D 504M3173.M

Fri May 28 09:38:21 2010

GCCD

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## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** GWW3173-ICV3173      **Method:** SW846-8011  
**Lab FileID:** WW90656.D      **Analyst approved:** 05/28/10 09:38 Toya Dagena Raffington  
**Injection Time:** 05/27/10 18:18      **Supervisor approved:** 06/03/10 09:35 Owen McKenna

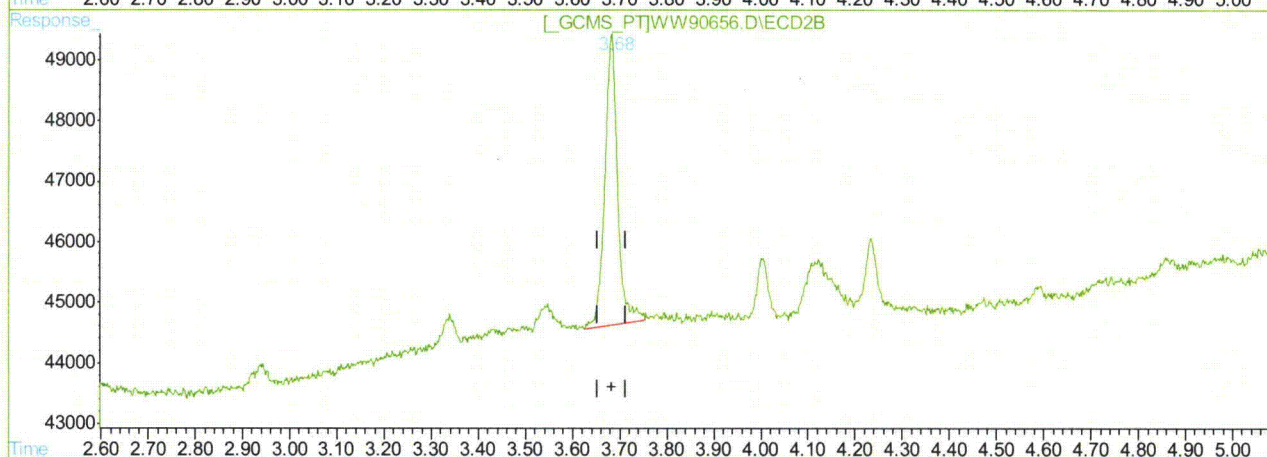
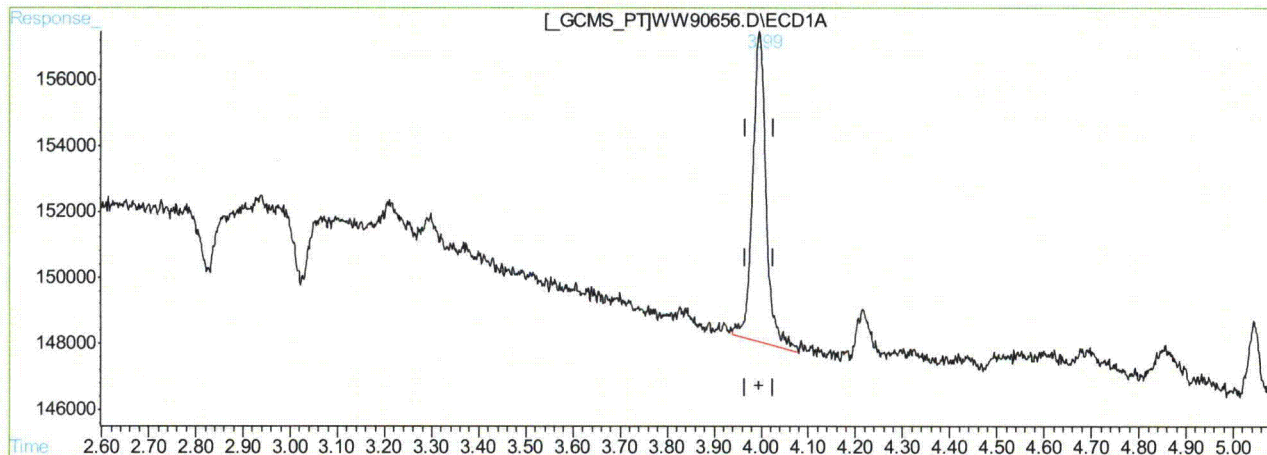
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2,3-Trichloropropane	96-18-4	2	3.68	Poor instrument integration

10.6.87.1  
10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3173\WW90656.D\ECD1A.CH Vial: 20  
Signal #2 : C:\HPCHEM\1\DATA\GWW3173\WW90656.D\ECD2B.CH  
Acq On : 27 May 2010 6:18 pm Operator: toyar  
Sample : ICV3173-0.5 Inst : GCWW  
Misc : OP43588,Gww3173,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e  
Quant Time: May 28 9:37 2010 Quant Results File: 504M3173.RES

Method : C:\HPCHEM\1\METHODS\504M3173.M (Chemstation Integrator)  
Title : GC/ECD- EDB  
Last Update : Fri May 28 09:36:59 2010  
Response via : Multiple Level Calibration



(3) 1,2,3-Trichloropropane

3.99min 0.514PPB

response 187342

(3) 1,2,3-Trichloropropane #2

3.68min 0.460PPB m

response 91076

(+) = Expected Retention Time

WW90656.D 504M3173.M

Fri May 28 09:38:05 2010

GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95110.D\ECD1A.CH Vial: 6  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95110.D\ECD2B.CH  
 Acq On : 14 Oct 2010 12:30 pm Operator: toyar  
 Sample : CC3143-300 Inst : GCWW  
 Misc : OP46060,Gww3324,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 14 12:45 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Thu Oct 14 12:44:14 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	1449.9E6	520.7E6	659.327m	553.932
Spiked Amount	500.000		Recovery	=	131.87%	110.79%

## Target Compounds

1) Dalapon	6.09	5.17	223.9E6	88134240	64.551	53.952
3) Dicamba	15.39	14.87	749.8E6	252.1E6	66.787	57.695
4) MCPP	15.69	15.08	74766343	48250831	14547.571	15825.728
5) MCPA	15.93	15.43	151.8E6	71620909	15562.518	15040.159
6) Dichloroprop	16.47	15.91	848.7E6	322.6E6	262.164	240.605
7) 2,4-D	16.88	16.40	851.7E6	384.9E6	273.493	272.354
8) Pentachloropheno	17.13	16.83	1616.2E6	529.7E6	35.579	30.914
9) 2,4,5-TP	17.94	17.41	1056.8E6	373.8E6	59.160	52.849
10) 2,4,5-T	18.39	17.96	1018.8E6	365.5E6	66.689	60.955
11) 2,4-DB	19.07	18.69	506.6E6	103.2E6	327.454	141.995 #
12) Dinoseb	20.26	18.88	6477.8E6	1339.2E6	378.995	271.610 #

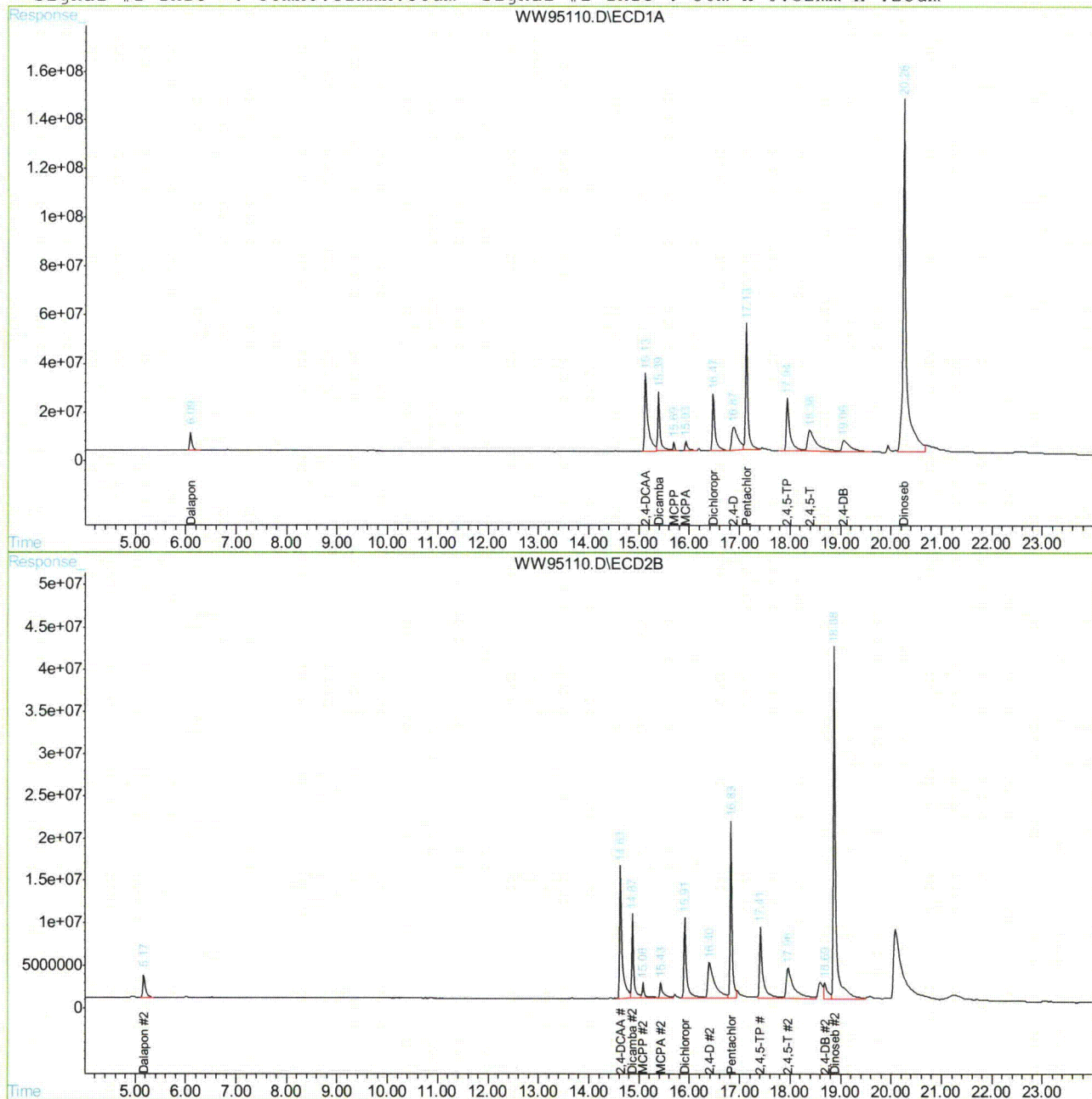
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95110.D HWW3143.M Thu Oct 14 12:45:21 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95110.D\ECD1A.CH Vial: 6  
Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95110.D\ECD2B.CH  
Acq On : 14 Oct 2010 12:30 pm Operator: toyar  
Sample : CC3143-300 Inst : GCWW  
Misc : OP46060,Gww3324,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 14 12:45 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Thu Oct 14 12:44:14 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



WW95110.D HWW3143.M

Thu Oct 14 12:45:22 2010

GCCD

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## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** GWW3324-CC3143      **Method:** SW846 8151  
**Lab FileID:** WW95110.D      **Analyst approved:** 10/15/10 15:38 Toya Dagena Raffington  
**Injection Time:** 10/14/10 12:30      **Supervisor approved:** 10/19/10 14:04 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4-DCAA	19719-28-9	1	15.13	Poorly defined baseline

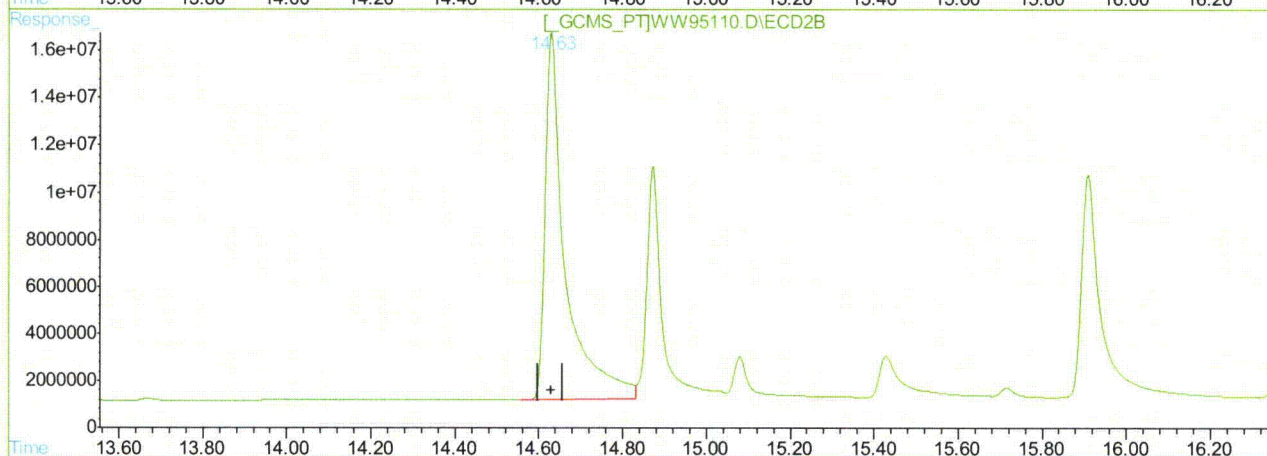
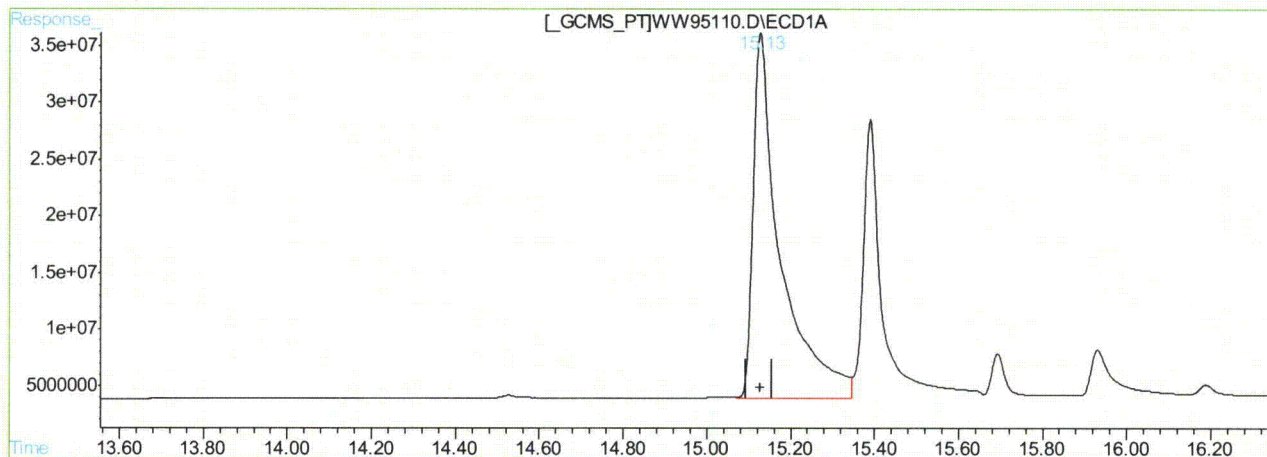
10.6.88.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95110.D\ECD1A.CH Vial: 6  
Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95110.D\ECD2B.CH  
Acq On : 14 Oct 2010 12:30 pm Operator: toyar  
Sample : CC3143-300 Inst : GCWW  
Misc : OP46060,Gww3324,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 14 12:44 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Thu Oct 14 12:44:14 2010  
Response via : Multiple Level Calibration



(2) 2,4-DCAA (S)

15.13min 659.327PPB m

response 1449867251

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

14.63min 553.932PPB

response 520654498

(+) = Expected Retention Time  
WW95110.D HWW3143.M Thu Oct 14 12:45:12 2010

GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95121.D\ECD1A.CH Vial: 17  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95121.D\ECD2B.CH  
 Acq On : 14 Oct 2010 6:00 pm Operator: toyar  
 Sample : CC3143-200 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 8:32 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Fri Oct 15 08:32:22 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
----------	------	------	--------	--------	-----	-----

## System Monitoring Compounds

2) S 2,4-DCAA	15.14	14.64	1021.0E6	370.2E6	464.283	393.879
Spiked Amount	500.000		Recovery	=	92.86%	78.78%

## Target Compounds

1) Dalapon	6.09	5.17	156.7E6	61191832	45.169	37.459
3) Dicamba	15.39	14.88	544.9E6	177.3E6	48.533	40.579
4) MCPP	15.70	15.09	54149892	30512354	10536.150	10007.708
5) MCPA	15.94	15.44	118.1E6	55952086	12101.471	11749.757
6) Dichloroprop	16.48	15.91	607.2E6	225.4E6	187.566	168.073
7) 2,4-D	16.88	16.41	595.6E6	263.1E6	191.247	186.178
8) Pentachloropheno	17.14	16.83	1104.7E6	349.7E6	24.319	20.407
9) 2,4,5-TP	17.94	17.42	680.7E6	239.2E6	38.103	33.821
10) 2,4,5-T	18.39	17.97	555.9E6	242.5E6	36.393	40.440
11) 2,4-DB	19.07	18.61	291.0E6	144.2E6	188.123	198.407
12) Dinoseb	20.26	18.88	3917.2E6	876.8E6	229.184	177.828

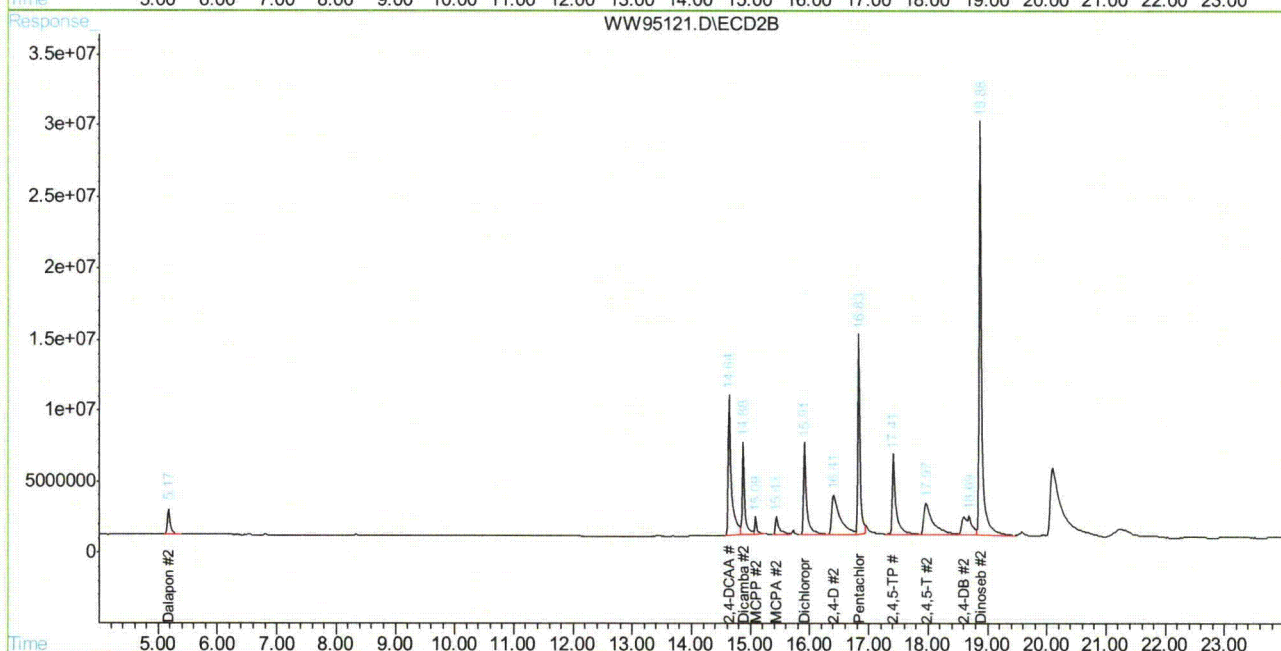
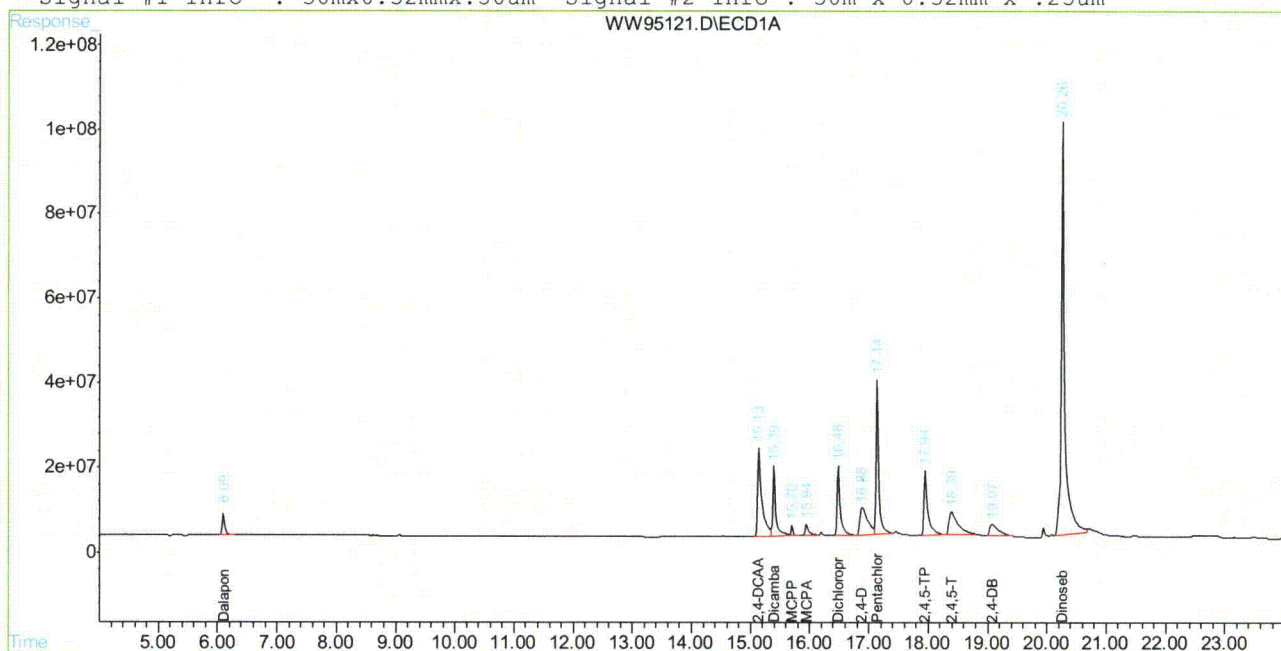
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95121.D HWW3143.M Fri Oct 15 08:32:47 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95121.D\ECD1A.CH Vial: 17  
Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95121.D\ECD2B.CH  
Acq On : 14 Oct 2010 6:00 pm Operator: toyar  
Sample : CC3143-200 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 8:32 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 15 08:32:22 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



WW95121.D HWW3143.M

Fri Oct 15 08:32:47 2010

GCCD

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## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95131.D\ECD1A.CH Vial: 27  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95131.D\ECD2B.CH  
 Acq On : 14 Oct 2010 11:18 pm Operator: toyar  
 Sample : ECC3143-300 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 8:33 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Fri Oct 15 08:32:22 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	1453.8E6	526.9E6	661.126	560.534
Spiked Amount	500.000		Recovery	=	132.23%	112.11%

## Target Compounds

1) Dalapon	6.09	5.17	227.6E6	87655258	65.612	53.659
3) Dicamba	15.39	14.87	760.9E6	251.5E6	67.776	57.555
4) MCPP	15.70	15.08	76687593	43289716	14921.396	14198.538
5) MCPA	15.93	15.43	157.6E6	74076055	16156.859	15555.732
6) Dichloroprop	16.48	15.91	850.9E6	316.4E6	262.834	235.976
7) 2,4-D	16.88	16.39f	872.1E6	371.2E6	280.041	262.658
8) Pentachloropheno	17.14	16.83	1611.6E6	519.3E6	35.479	30.303
9) 2,4,5-TP	17.94	17.41	983.6E6	344.9E6	55.064	48.761
10) 2,4,5-T	18.38	17.95f	842.0E6	327.3E6	55.119	54.577
11) 2,4-DB	19.06f	18.59f	427.3E6	200.4E6	276.221	275.767
12) Dinoseb	20.26	18.88	5905.2E6	1266.5E6	345.493	256.873 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95131.D HWW3143.M Fri Oct 15 08:33:43 2010 GCCD

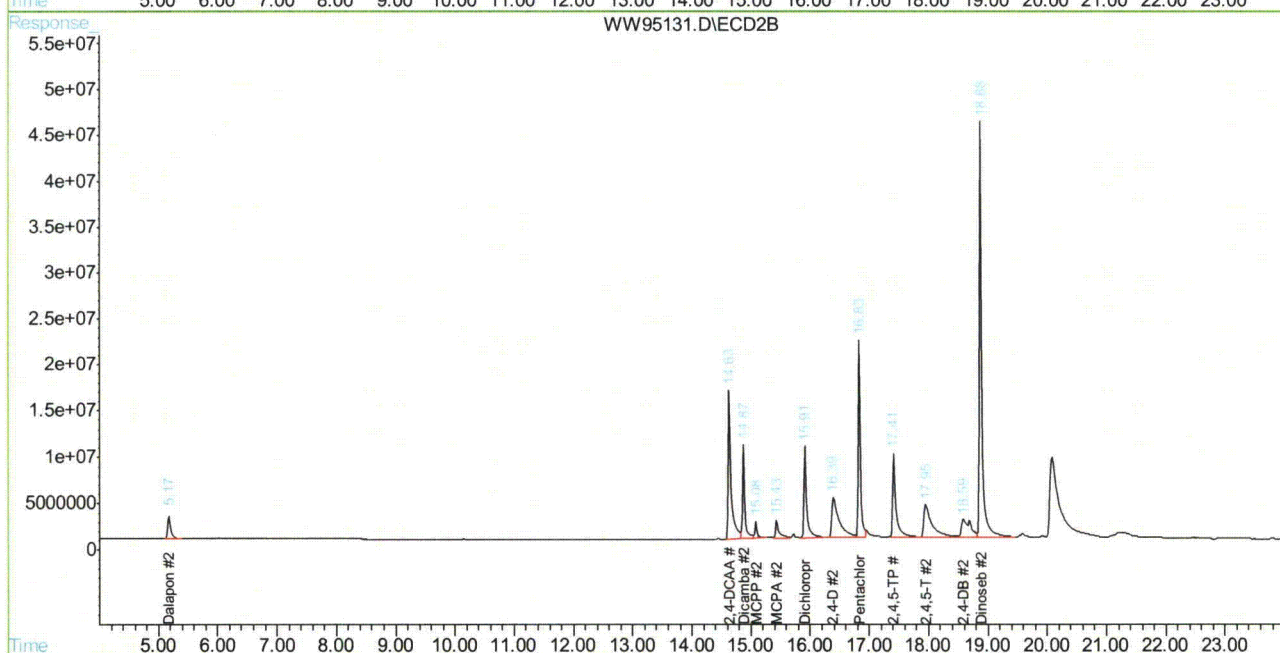
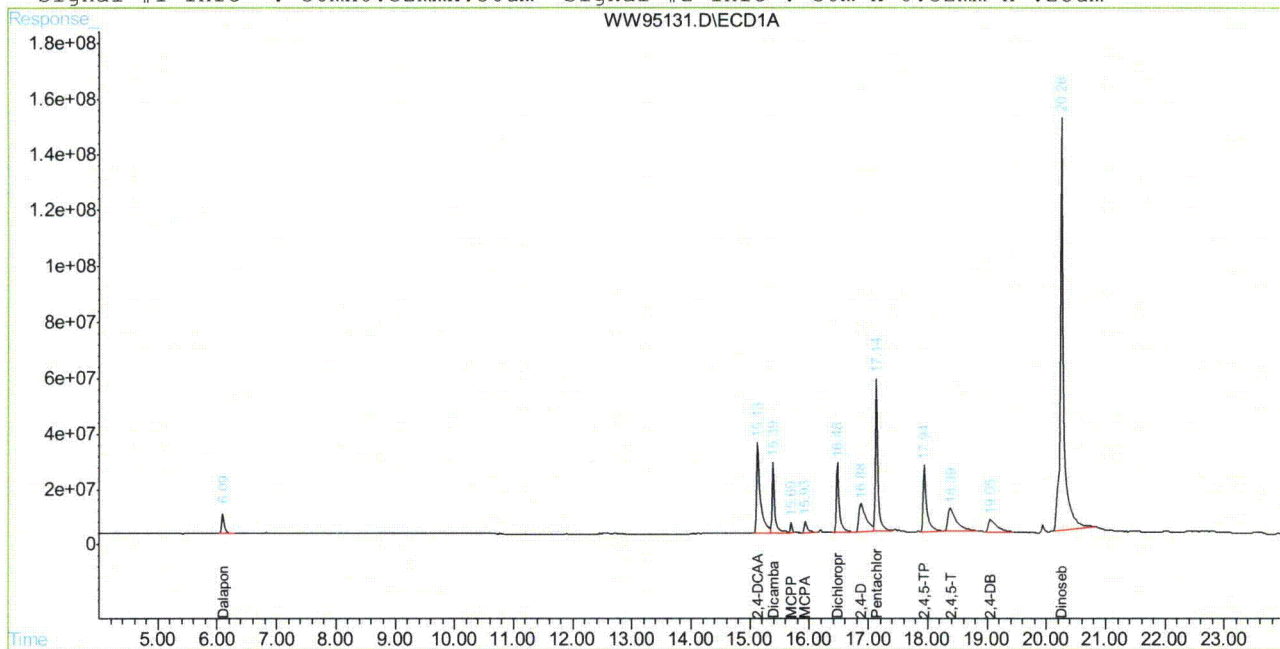


## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3324\WW95131.D\ECD1A.CH Vial: 27  
Signal #2 : C:\HPCHEM\1\DATA\GWW3324\WW95131.D\ECD2B.CH  
Acq On : 14 Oct 2010 11:18 pm Operator: toyar  
Sample : ECC3143-300 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 8:33 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 15 08:32:22 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



WW95131.D HWW3143.M

Fri Oct 15 08:33:43 2010

GCCD

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## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95325.D\ECD1A.CH Vial: 23  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95325.D\ECD2B.CH  
 Acq On : 21 Oct 2010 10:26 pm Operator: toyar  
 Sample : CC3143-300 Inst : GCWW  
 Misc : OP46195,Gww3334,35.3,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 22 9:09 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Fri Oct 22 09:09:39 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	15.13	14.63	1536.3E6	584.2E6	698.628	621.568
Spiked Amount	500.000		Recovery	=	139.73%	124.31%

## Target Compounds

1) Dalapon	6.09	5.17	232.2E6	93484160	66.941	57.227
3) Dicamba	15.39	14.87	816.9E6	280.4E6	72.766	64.173
4) MCPP	15.69	15.08	96566816	51554651	18789.372	16909.343
5) MCPA	15.93	15.43	169.1E6	82199831	17329.858	17261.698
6) Dichloroprop	16.47	15.91	912.4E6	360.3E6	281.842	268.751
7) 2,4-D	16.88	16.40	898.4E6	425.7E6	288.491	301.222
8) Pentachloropheno	17.13	16.83	1751.1E6	600.6E6	38.549	35.051
9) 2,4,5-TP	17.94	17.41	1145.4E6	423.2E6	64.117	59.828
10) 2,4,5-T	18.39	17.96	1084.8E6	401.6E6	71.013	66.977
11) 2,4-DB	19.07	18.60	546.6E6	235.8E6	353.320	324.380
12) Dinoseb	20.26	18.88	6485.9E6	1465.5E6	379.468	297.222

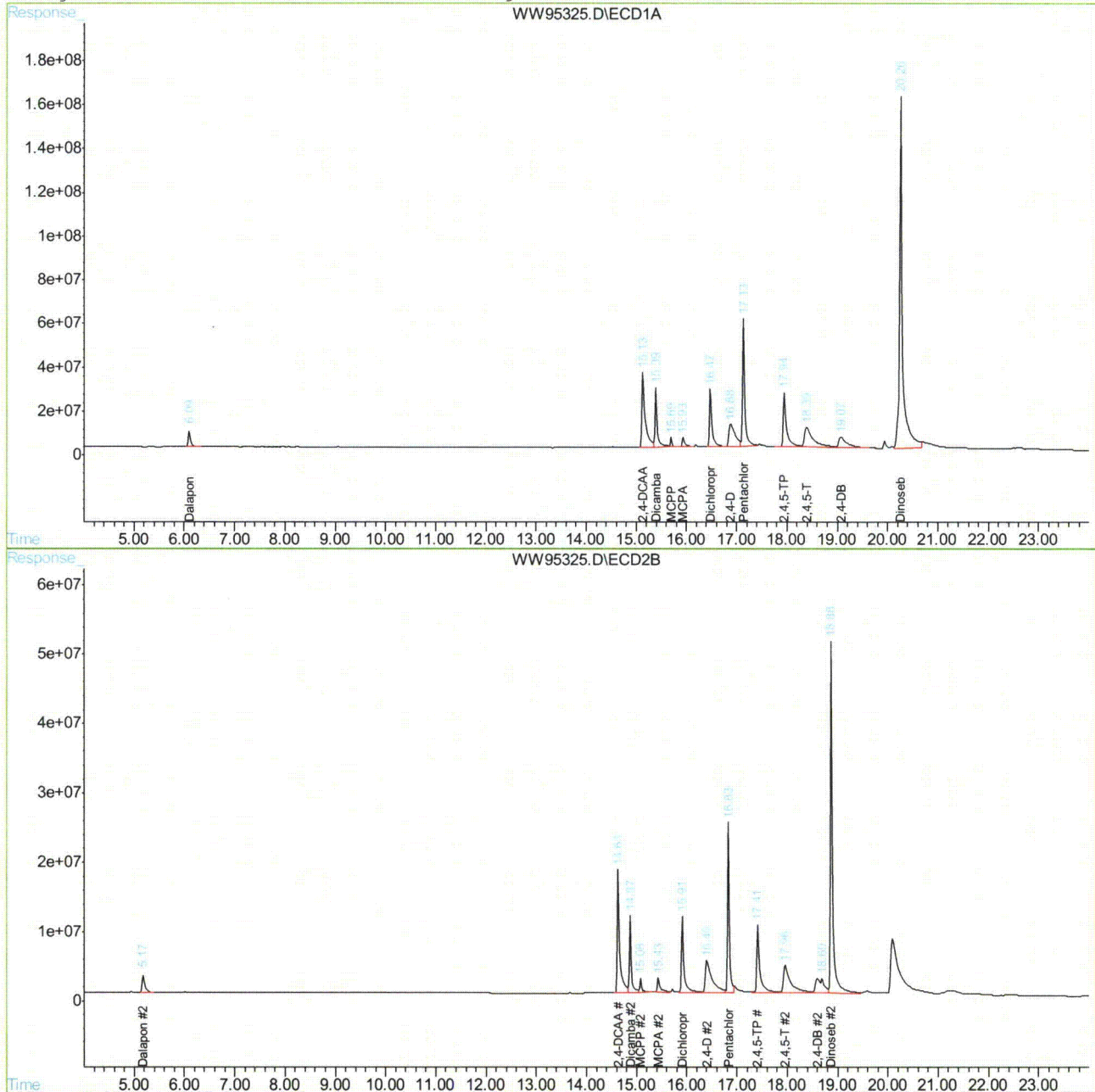
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95325.D HWW3143.M Fri Oct 22 09:10:05 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95325.D\ECD1A.CH Vial: 23  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95325.D\ECD2B.CH  
Acq On : 21 Oct 2010 10:26 pm Operator: toyar  
Sample : CC3143-300 Inst : GCWW  
Misc : OP46195,Gww3334,35.3,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 22 9:09 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 22 09:09:39 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



WW95325.D HWW3143.M Fri Oct 22 09:10:05 2010

GCCD

Page 2

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95336.D\ECD1A.CH Vial: 34  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95336.D\ECD2B.CH  
 Acq On : 22 Oct 2010 4:44 am Operator: toyar  
 Sample : CC3143-200 Inst : GCWW  
 Misc : OP46107,Gww3334,730,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 22 8:38 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Fri Oct 22 08:37:31 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	15.14	14.64	981.7E6	375.0E6	446.405	398.980
Spiked Amount	500.000		Recovery	=	89.28%	79.80%

## Target Compounds

1) Dalapon	6.09	5.17	150.6E6	61844194	43.427	37.858
3) Dicamba	15.39	14.88	533.8E6	184.3E6	47.545	42.178
4) MCPP	15.70	15.08	50953331	34070839	9914.183	11174.850
5) MCPA	15.94	15.44	113.3E6	56736346	11610.917	11914.449
6) Dichloroprop	16.48	15.91	590.3E6	229.5E6	182.348	171.164
7) 2,4-D	16.90	16.41	541.7E6	259.1E6	173.933	183.318
8) Pentachloropheno	17.13	16.83	1113.3E6	359.2E6	24.509	20.960
9) 2,4,5-TP	17.95	17.42	715.5E6	240.3E6	40.053	33.976
10) 2,4,5-T	18.41	17.97	698.3E6	232.6E6	45.709	38.793
11) 2,4-DB	19.10	18.69	352.9E6	136.8E6	228.123	188.187
12) Dinoseb	20.26	18.88	3804.4E6	922.0E6	222.585	186.991

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95336.D HWW3143.M Mon Oct 25 16:20:58 2010 GCCD

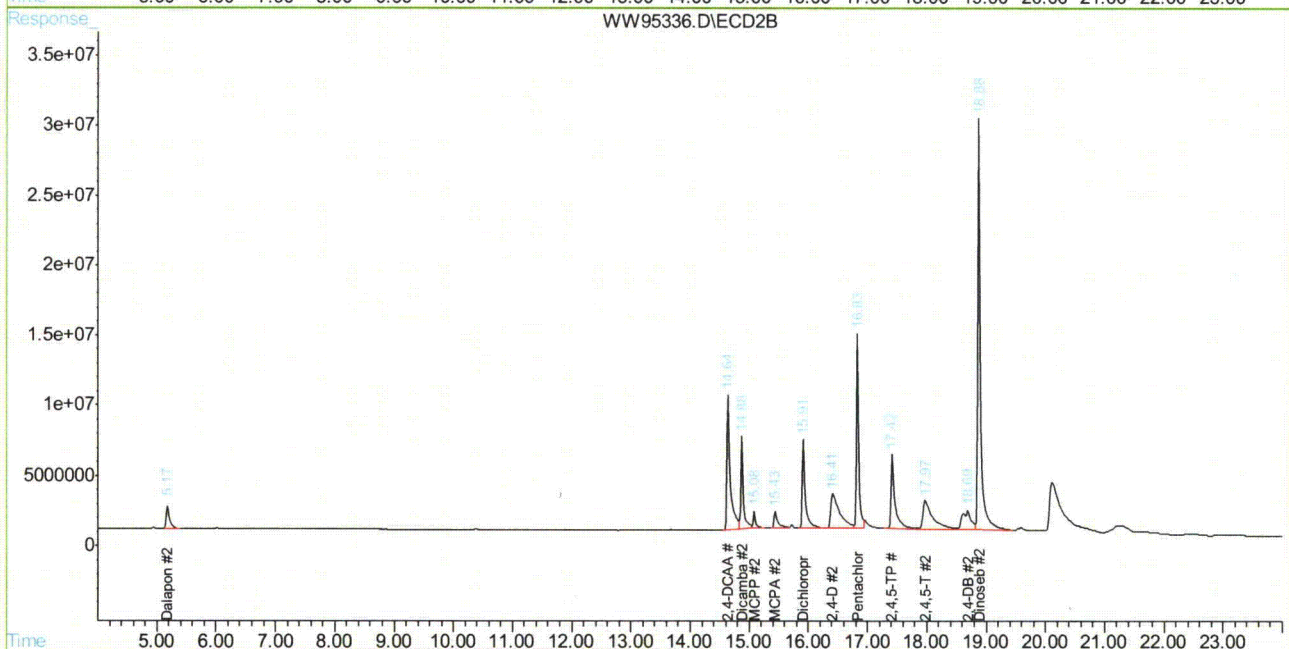
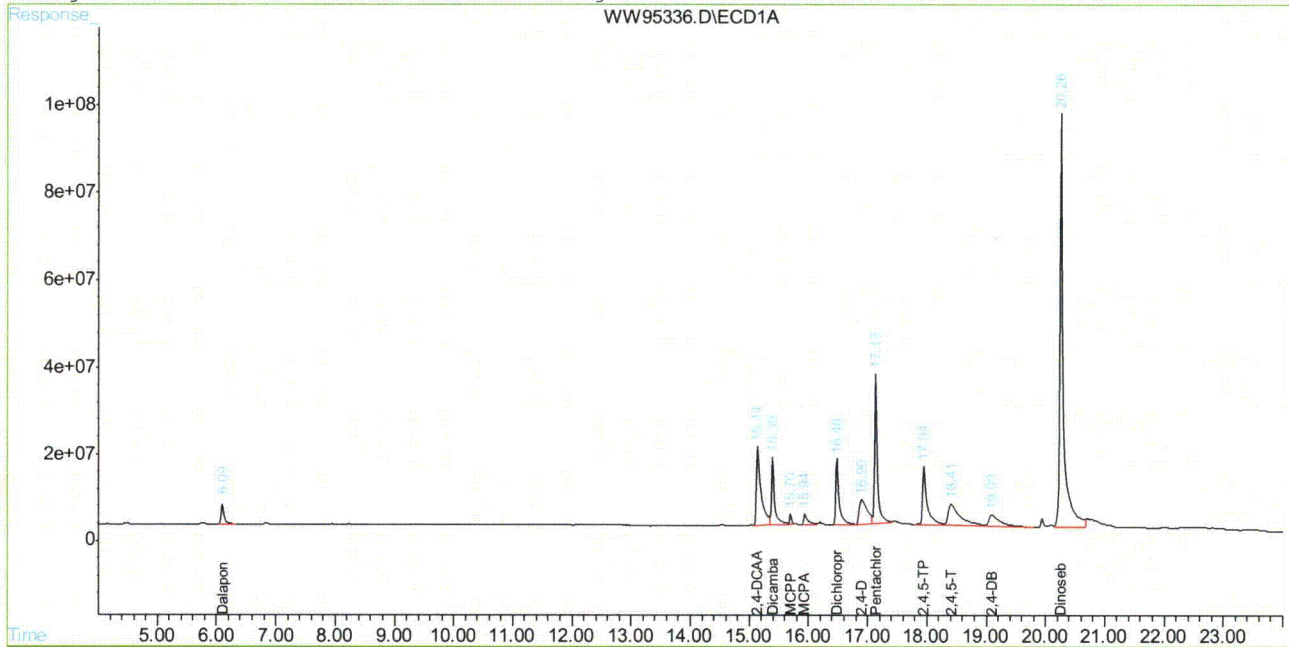


## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95336.D\ECD1A.CH Vial: 34  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95336.D\ECD2B.CH  
Acq On : 22 Oct 2010 4:44 am Operator: toyar  
Sample : CC3143-200 Inst : GCWW  
Misc : OP46107,Gww3334,730,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 22 8:38 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 22 08:37:31 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



WW95336.D HWW3143.M

Mon Oct 25 16:20:59 2010

GCCD

Page 2



Jessica Reitan-Chu  
10/27/10 17:06

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95352.D\ECD1A.CH Vial: 50  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95352.D\ECD2B.CH  
 Acq On : 22 Oct 2010 2:35 pm Operator: toyar  
 Sample : CC3143-200 Inst : GCWW  
 Misc : OP46286,Gww3334,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 22 15:11 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Fri Oct 22 15:09:59 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	15.14	14.64	975.9E6	373.1E6	443.811	396.908
Spiked Amount	500.000		Recovery	=	88.76%	79.38%

## Target Compounds

1) Dalapon	6.09	5.17	151.6E6	61673440	43.710	37.754
3) Dicamba	15.39	14.88	537.3E6	182.6E6	47.858	41.785
4) MCPP	15.70	15.08	56350654	32928364	10964.360	10800.131
5) MCPA	15.94	15.43	111.5E6	56282149	11425.825	11819.069
6) Dichloroprop	16.48	15.91	593.3E6	227.0E6	183.277m	169.336
7) 2,4-D	16.90	16.41	568.5E6	253.1E6	182.566	179.065
8) Pentachloropheno	17.14	16.83	1206.7E6	355.4E6	26.564	20.739
9) 2,4,5-TP	17.95	17.42	679.3E6	232.4E6	38.026m	32.855
10) 2,4,5-T	18.40	17.98	674.7E6	232.1E6	44.166m	38.702
11) 2,4-DB	19.10	18.62	392.5E6	131.1E6	253.708	180.336 #
12) Dinoseb	20.26	18.88	3511.8E6	905.4E6	205.467	183.633

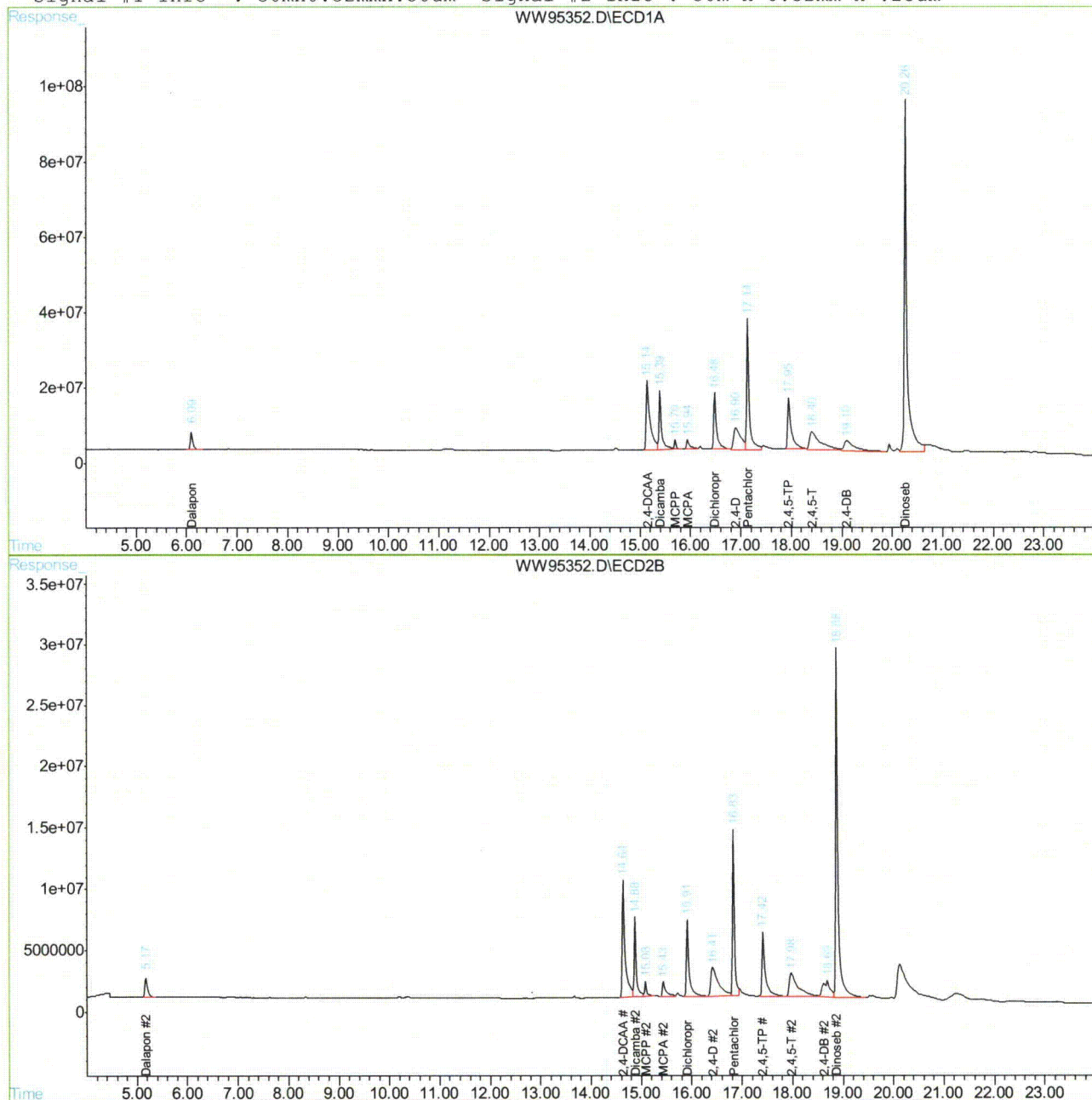
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95352.D HWW3143.M Fri Oct 22 15:12:08 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95352.D\ECD1A.CH Vial: 50  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95352.D\ECD2B.CH  
Acq On : 22 Oct 2010 2:35 pm Operator: toyar  
Sample : CC3143-200 Inst : GCWW  
Misc : OP46286,Gww3334,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 22 15:11 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 22 15:09:59 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



WW95352.D HWW3143.M

Fri Oct 22 15:12:08 2010

GCCD

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## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** GWW3334-CC3143      **Method:** SW846 8151  
**Lab FileID:** WW95352.D      **Analyst approved:** 10/25/10 16:20 Toya Dagena Raffington  
**Injection Time:** 10/22/10 14:35      **Supervisor approved:** 10/27/10 17:06 Jessica Reitan-Chu

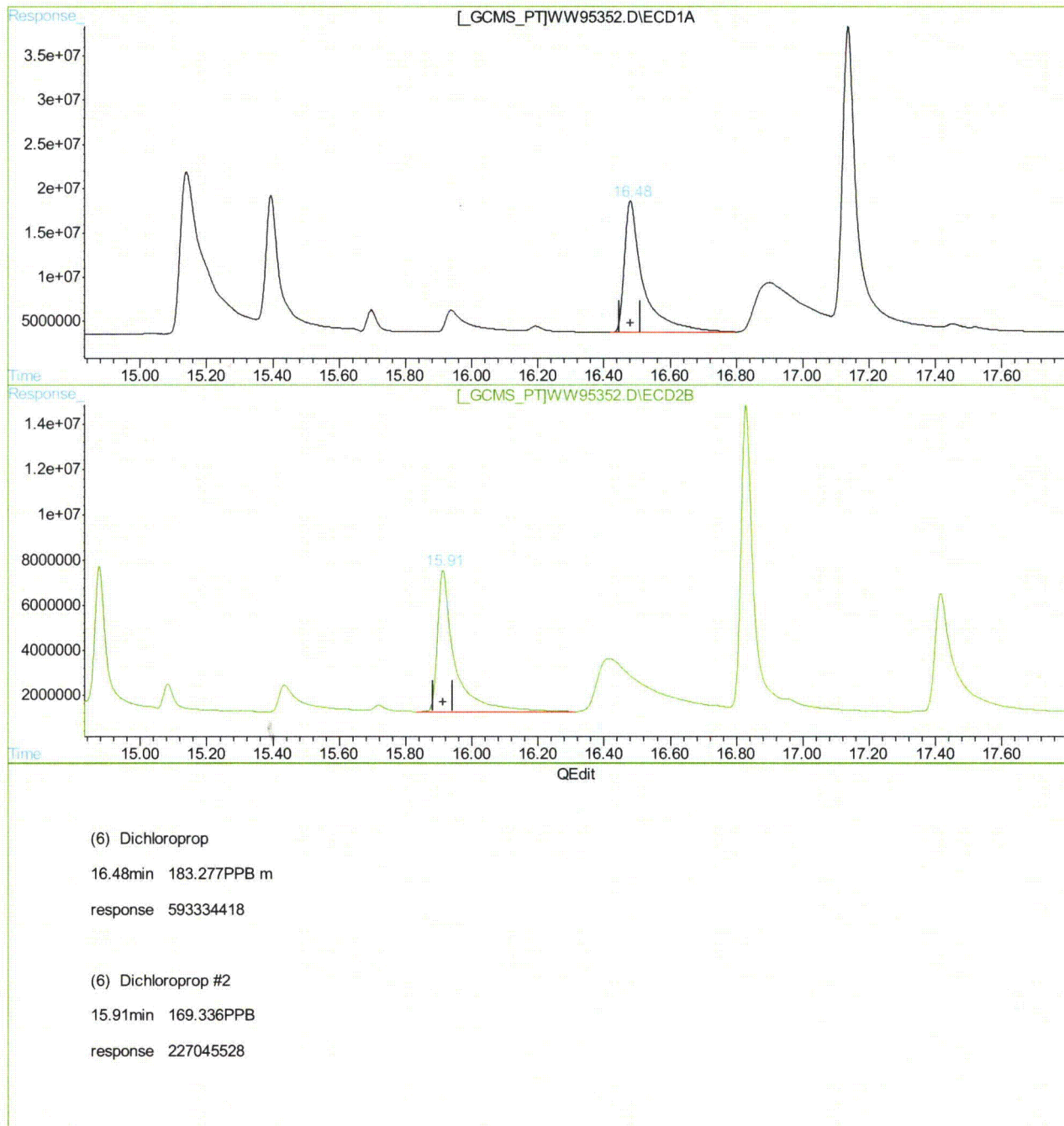
Parameter	CAS	Sig#	R. T. (min.)	Reason
Dichloroprop	120-36-5	1	16.48	Poorly defined baseline
2,4,5-TP (Silvex)	93-72-1	1	17.95	Poorly defined baseline
2,4,5-T	93-76-5	1	18.40	Poorly defined baseline

10.6.93.1  
**10**

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95352.D\ECD1A.CH Vial: 50  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95352.D\ECD2B.CH  
Acq On : 22 Oct 2010 2:35 pm Operator: toyar  
Sample : CC3143-200 Inst : GCWW  
Misc : OP46286,Gww3334,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 22 15:11 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 22 15:09:59 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time

WW95352.D HWW3143.M

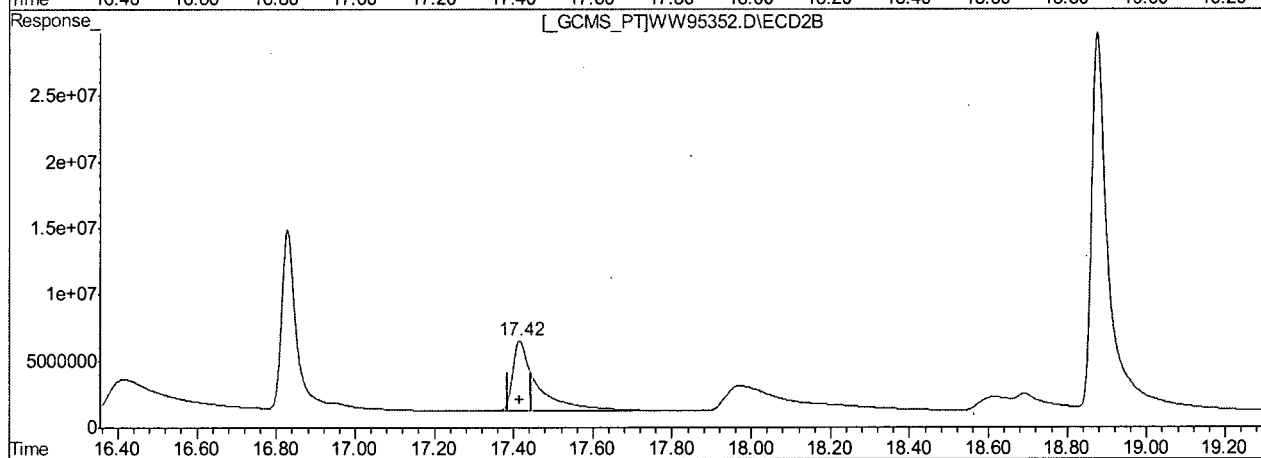
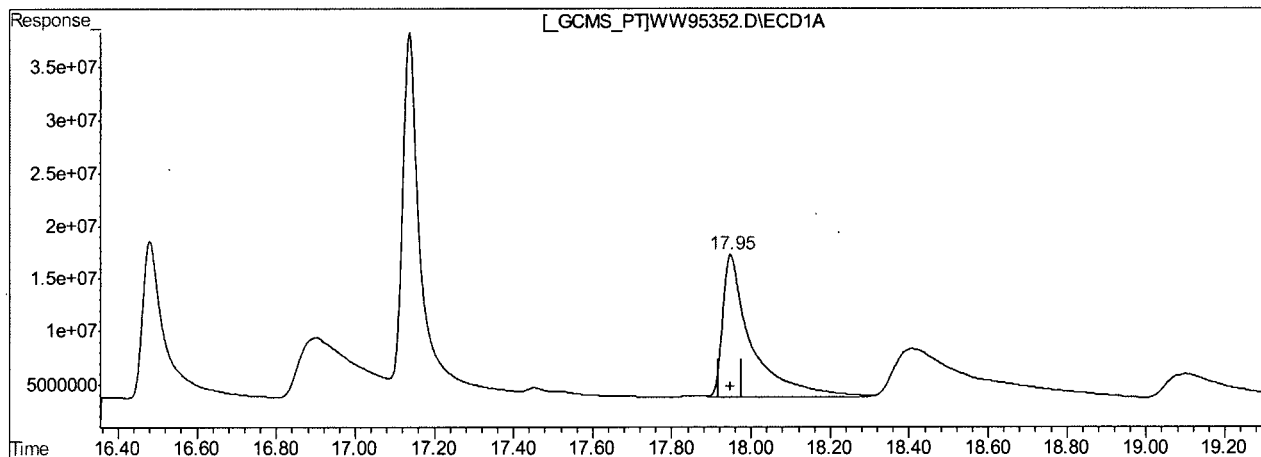
Fri Oct 22 15:11:41 2010

GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95352.D\ECD1A.CH Vial: 50  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95352.D\ECD2B.CH  
Acq On : 22 Oct 2010 2:35 pm Operator: toyar  
Sample : CC3143-200 Inst : GCWW  
Misc : OP46286,Gww3334,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 22 15:11 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 22 15:09:59 2010  
Response via : Multiple Level Calibration



(9) 2,4,5-TP

17.95min 38.026PPB m

response 679272577

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

17.42min 32.855PPB

response 232402890

(+) = Expected Retention Time

WW95352.D HWW3143.M Fri Oct 22 15:11:47 2010

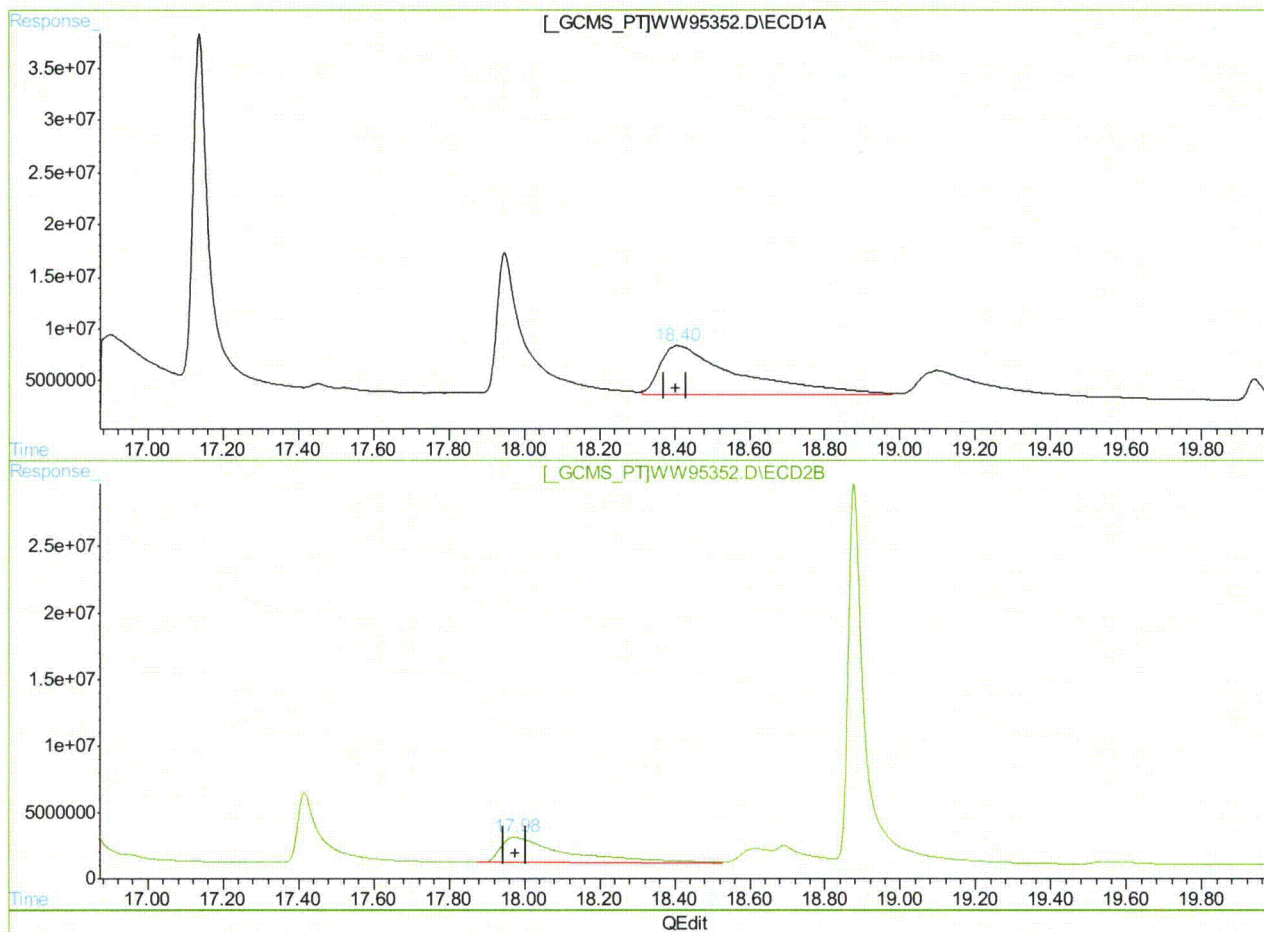
GCCD



## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95352.D\ECD1A.CH Vial: 50  
Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95352.D\ECD2B.CH  
Acq On : 22 Oct 2010 2:35 pm Operator: toyar  
Sample : CC3143-200 Inst : GCWW  
Misc : OP46286,Gww3334,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 22 15:11 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 22 15:09:59 2010  
Response via : Multiple Level Calibration



(10) 2,4,5-T

18.40min 44.166PPB m

response 674683478

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

17.98min 38.702PPB

response 232089486

(+) = Expected Retention Time

WW95352.D HWW3143.M

Fri Oct 22 15:11:51 2010

GCCD

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

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95479.D\ECD1A.CH Vial: 12  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95479.D\ECD2B.CH  
 Acq On : 28 Oct 2010 6:00 pm Operator: toyar  
 Sample : cc3173-200 Inst : GCWW  
 Misc : OP46386,Gww3340,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 29 9:28 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Fri Oct 29 09:23:01 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	15.15	14.65	973.6E6	377.7E6	442.728	401.826
Spiked Amount	500.000		Recovery	=	88.55%	80.37%

## Target Compounds

1) Dalapon	6.10	5.18	148.5E6	64828079	42.825	39.685m
3) Dicamba	15.40	14.88	551.6E6	189.5E6	49.133	43.360
4) MCPP	15.70	15.09	57363304	37666961	11161.396	12354.338
5) MCPA	15.94	15.44	109.9E6	56559568	11266.923	11877.326
6) Dichloroprop	16.49	15.92	592.0E6	232.7E6	182.853	173.534
7) 2,4-D	16.92	16.44f	518.4E6	258.9E6	166.450	183.202
8) Pentachloropheno	17.14	16.83	1199.2E6	403.1E6	26.399	23.526
9) 2,4,5-TP	17.96	17.43	698.2E6	239.2E6	39.085	33.821
10) 2,4,5-T	18.44f	18.00	683.9E6	226.6E6	44.771	37.792
11) 2,4-DB	19.13f	18.70	339.2E6	126.6E6	219.276	174.129
12) Dinoseb	20.27	18.89	3338.1E6	860.0E6	195.300	174.419

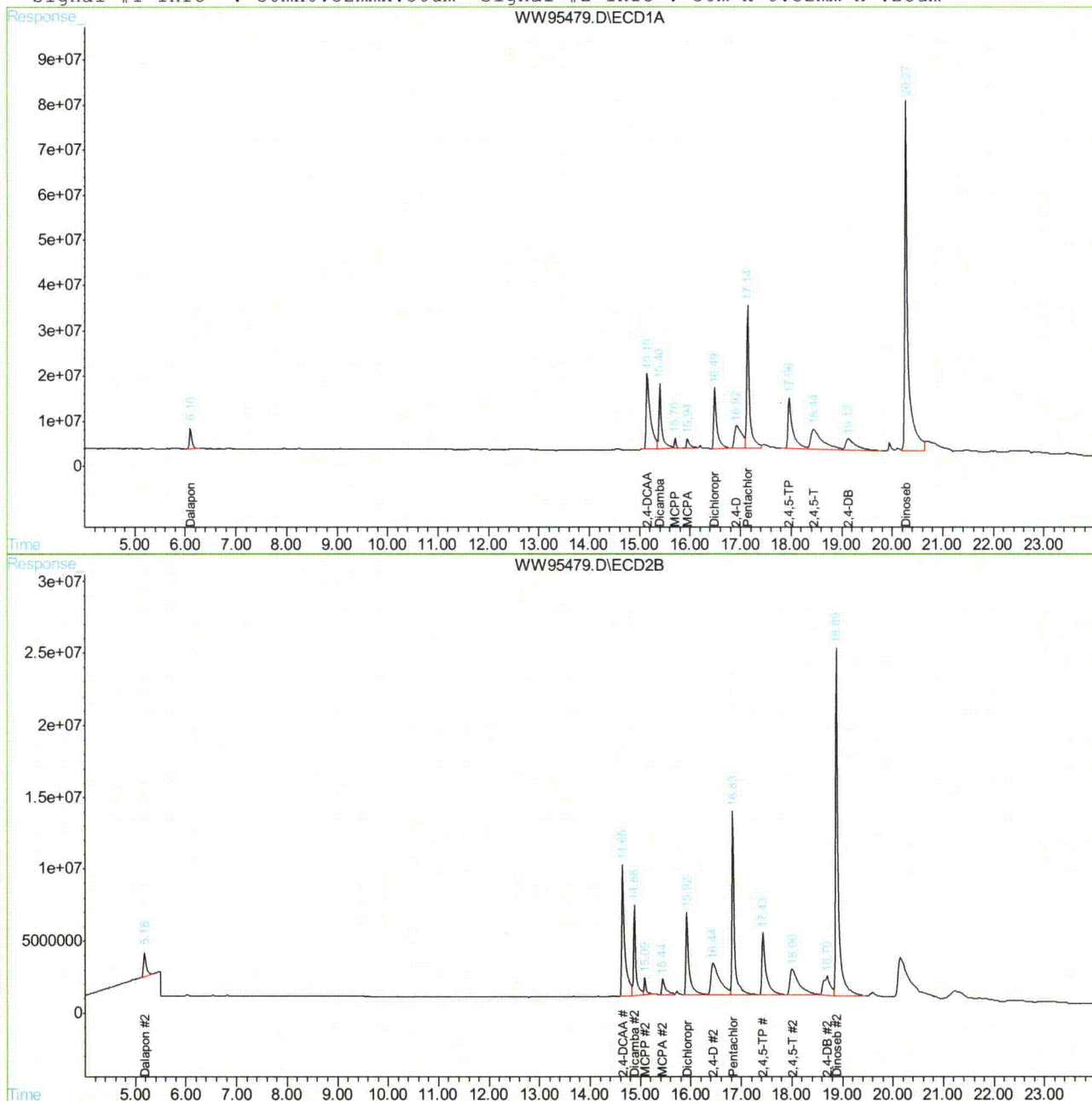
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95479.D HWW3143.M Fri Oct 29 09:28:21 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95479.D\ECD1A.CH Vial: 12  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95479.D\ECD2B.CH  
Acq On : 28 Oct 2010 6:00 pm Operator: toyar  
Sample : cc3173-200 Inst : GCWW  
Misc : OP46386,Gww3340,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 9:28 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 09:23:01 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



WW95479.D HWW3143.M

Fri Oct 29 09:28:21 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** GWW3340-CC3173      **Method:** SW846 8151  
**Lab FileID:** WW95479.D      **Analyst approved:** 10/29/10 11:47 Toya Dagena Raffington  
**Injection Time:** 10/28/10 18:00      **Supervisor approved:** 11/04/10 16:52 Cheng-Hwan Ao

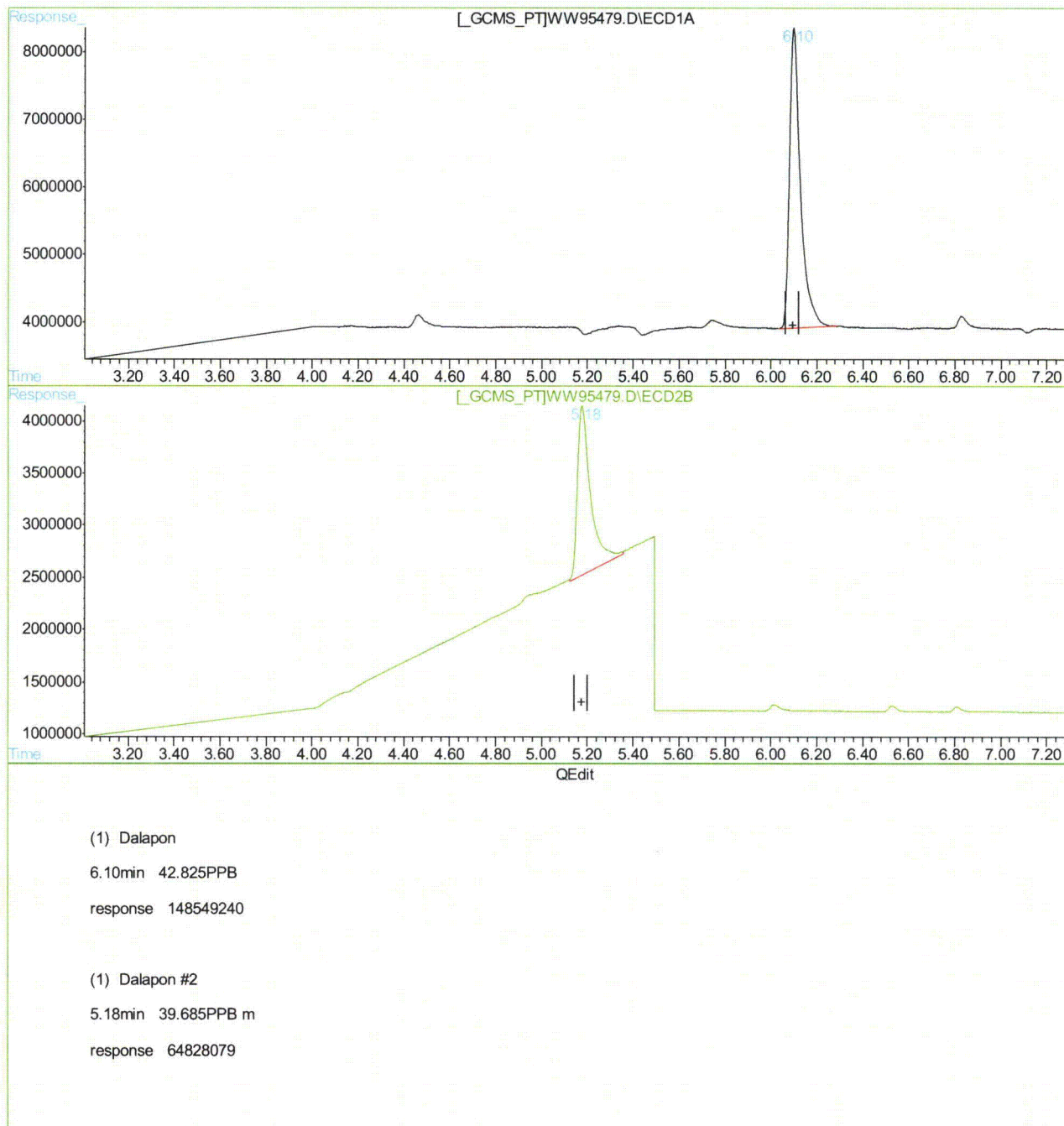
Parameter	CAS	Sig#	R. T. (min.)	Reason
Dalapon	75-99-0	2	5.18	Poorly defined baseline

10.6.94.1  
**10**

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95479.D\ECD1A.CH Vial: 12  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95479.D\ECD2B.CH  
Acq On : 28 Oct 2010 6:00 pm Operator: toyar  
Sample : cc3173-200 Inst : GCWW  
Misc : OP46386,Gww3340,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 9:27 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 09:23:01 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time  
WW95479.D HWW3143.M Fri Oct 29 09:28:07 2010 GCCD



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

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95490.D\ECD1A.CH Vial: 23  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95490.D\ECD2B.CH  
 Acq On : 28 Oct 2010 11:34 pm Operator: toyar  
 Sample : Ecc3173-300 Inst : GCWW  
 Misc : OP46386,Gww3340,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Oct 29 9:30 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Fri Oct 29 09:30:23 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
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## System Monitoring Compounds

2) S 2,4-DCAA	15.14	14.64	1492.2E6	576.5E6	678.560	613.361
Spiked Amount	500.000		Recovery	=	135.71%	122.67%

## Target Compounds

1) Dalapon	6.10	5.18	225.8E6	92819176	65.081	56.820
3) Dicamba	15.39	14.88	812.3E6	282.2E6	72.352	64.582
4) MCPP	15.70	15.08	90819453	54137091	17671.085	17756.355
5) MCPA	15.94	15.43	161.9E6	80952278	16592.118	16999.716
6) Dichloroprop	16.48	15.91	884.7E6	355.2E6	273.271	264.882
7) 2,4-D	16.91	16.42	795.3E6	408.0E6	255.389	288.687
8) Pentachloropheno	17.14	16.83	1735.6E6	654.9E6	38.208	38.215
9) 2,4,5-TP	17.96	17.42	1074.1E6	408.5E6	60.129	57.752
10) 2,4,5-T	18.43	18.00	987.9E6	386.1E6	64.672	64.382
11) 2,4-DB	19.11	18.70f	457.6E6	172.8E6	295.805	237.826m
12) Dinoseb	20.26	18.89	5651.8E6	1388.1E6	330.668	281.533

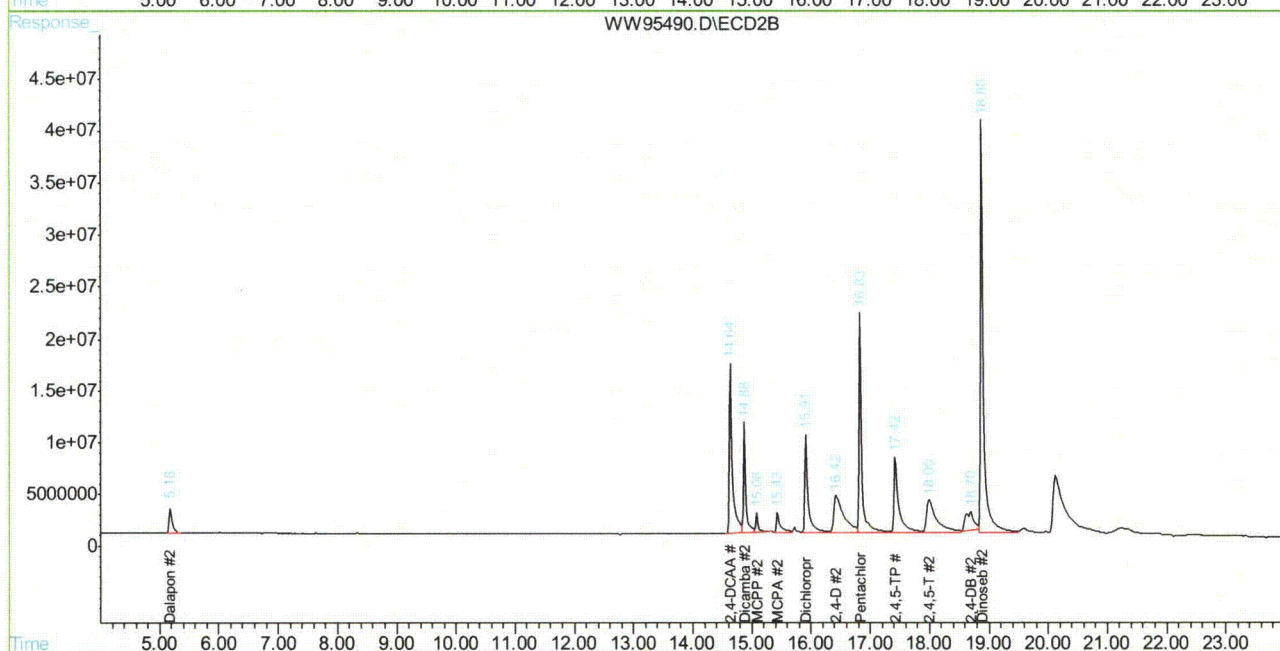
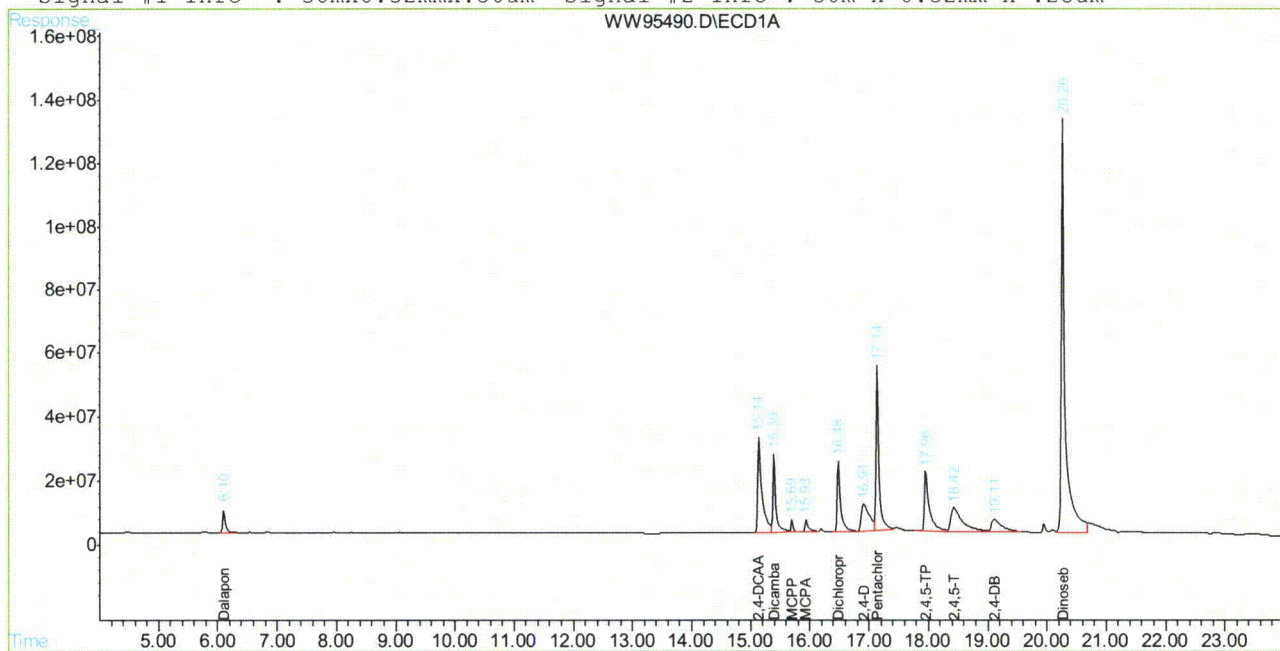
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95490.D HWW3143.M Fri Oct 29 09:31:12 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95490.D\ECD1A.CH Vial: 23  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95490.D\ECD2B.CH  
Acq On : 28 Oct 2010 11:34 pm Operator: toyar  
Sample : Ecc3173-300 Inst : GCWW  
Misc : OP46386,Gww3340,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 9:30 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 09:30:23 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



WW95490.D HWW3143.M

Fri Oct 29 09:31:12 2010

GCCD

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## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** GWW3340-ECC3173    **Method:** SW846 8151  
**Lab FileID:** WW95490.D    **Analyst approved:** 10/29/10 11:47 Toya Dagena Raffington  
**Injection Time:** 10/28/10 23:34    **Supervisor approved:** 11/04/10 16:52 Cheng-Hwan Ao

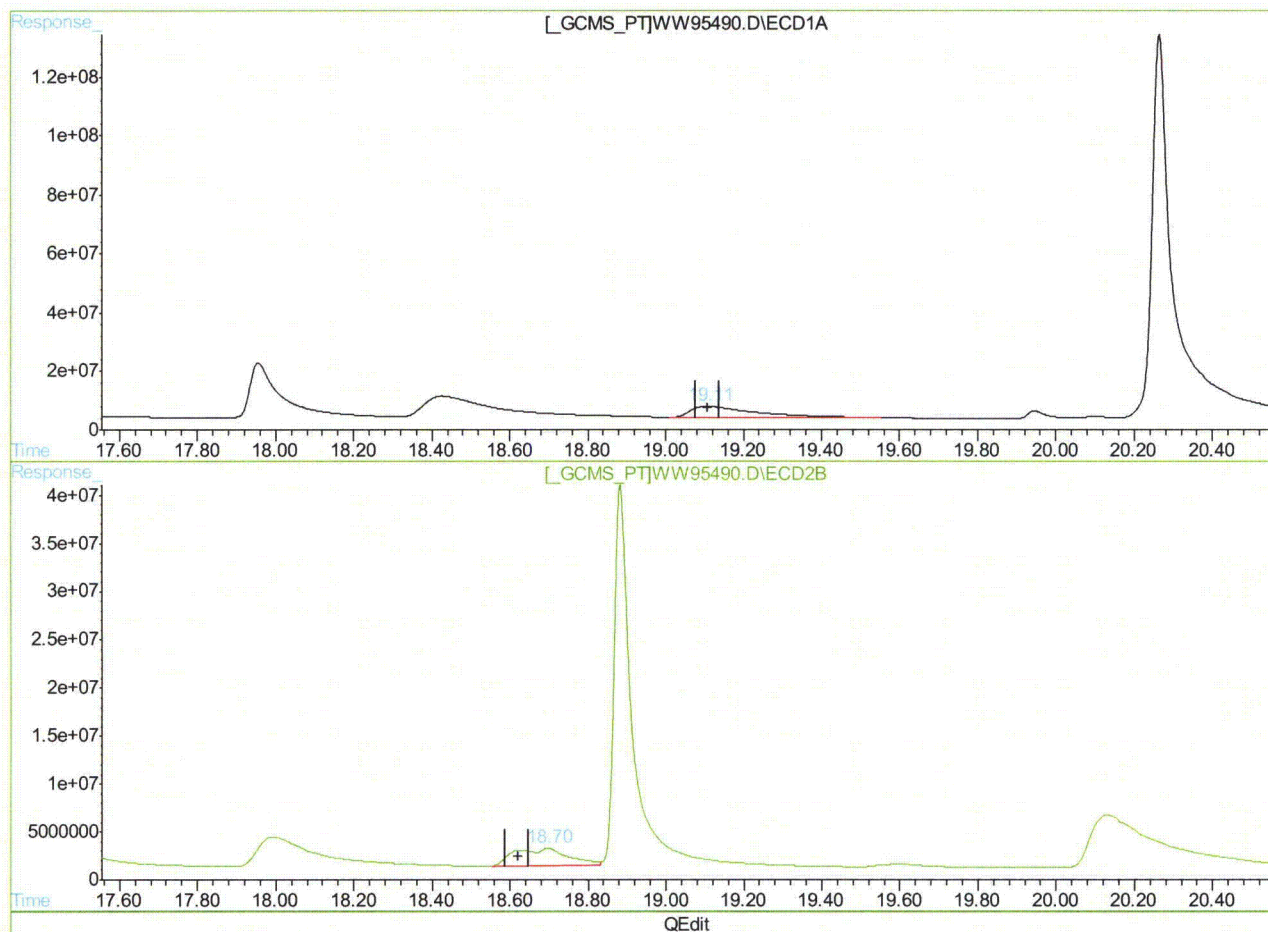
Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4-DB	94-82-6	2	18.70	Split peak

10.6.95.1  
**10**

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3340\WW95490.D\ECD1A.CH Vial: 23  
Signal #2 : C:\HPCHEM\1\DATA\GWW3340\WW95490.D\ECD2B.CH  
Acq On : 28 Oct 2010 11:34 pm Operator: toyar  
Sample : Ecc3173-300 Inst : GCWW  
Misc : OP46386,Gww3340,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Oct 29 9:30 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Oct 29 09:30:23 2010  
Response via : Multiple Level Calibration



(11) 2,4-DB

19.11min 295.805PPB

response 457608281

(11) 2,4-DB #2

18.70min 237.826PPB m

response 172848866

(+) = Expected Retention Time

WW95490.D HWW3143.M

Fri Oct 29 09:31:01 2010

GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3343\WW95555.D\ECD1A.CH Vial: 1  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3343\WW95555.D\ECD2B.CH  
 Acq On : 2 Nov 2010 11:25 am Operator: toyar  
 Sample : cc3143-200 Inst : GCWW  
 Misc : OP46386,Gww3343,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 2 11:42 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Tue Nov 02 11:41:27 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	14.62	981.8E6	375.5E6	446.469	399.526
Spiked Amount	500.000		Recovery	=	89.29%	79.91%

## Target Compounds

1) Dalapon	6.07	5.15	146.3E6	60183168	42.165	36.841
3) Dicamba	15.37	14.85	537.1E6	185.9E6	47.839	42.547
4) MCPP	15.67	15.06	57844112	39609779	11254.948	12991.560
5) MCPA	15.91	15.41	106.2E6	55760372	10886.898	11709.497
6) Dichloroprop	16.45	15.89	607.2E6	232.6E6	187.566	173.442
7) 2,4-D	16.88	16.39	573.7E6	262.7E6	184.212	185.848
8) Pentachloropheno	17.11	16.81	1207.2E6	360.7E6	26.575	21.052
9) 2,4,5-TP	17.92	17.40	757.9E6	239.4E6	42.425	33.841
10) 2,4,5-T	18.38	17.96	736.6E6	235.3E6	48.218	39.234
11) 2,4-DB	19.07	18.59	343.8E6	148.2E6	222.254	203.889
12) Dinoseb	20.23	18.86	4119.7E6	864.5E6	241.030	175.333 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95555.D HWW3143.M Tue Nov 02 15:53:47 2010 GCCD

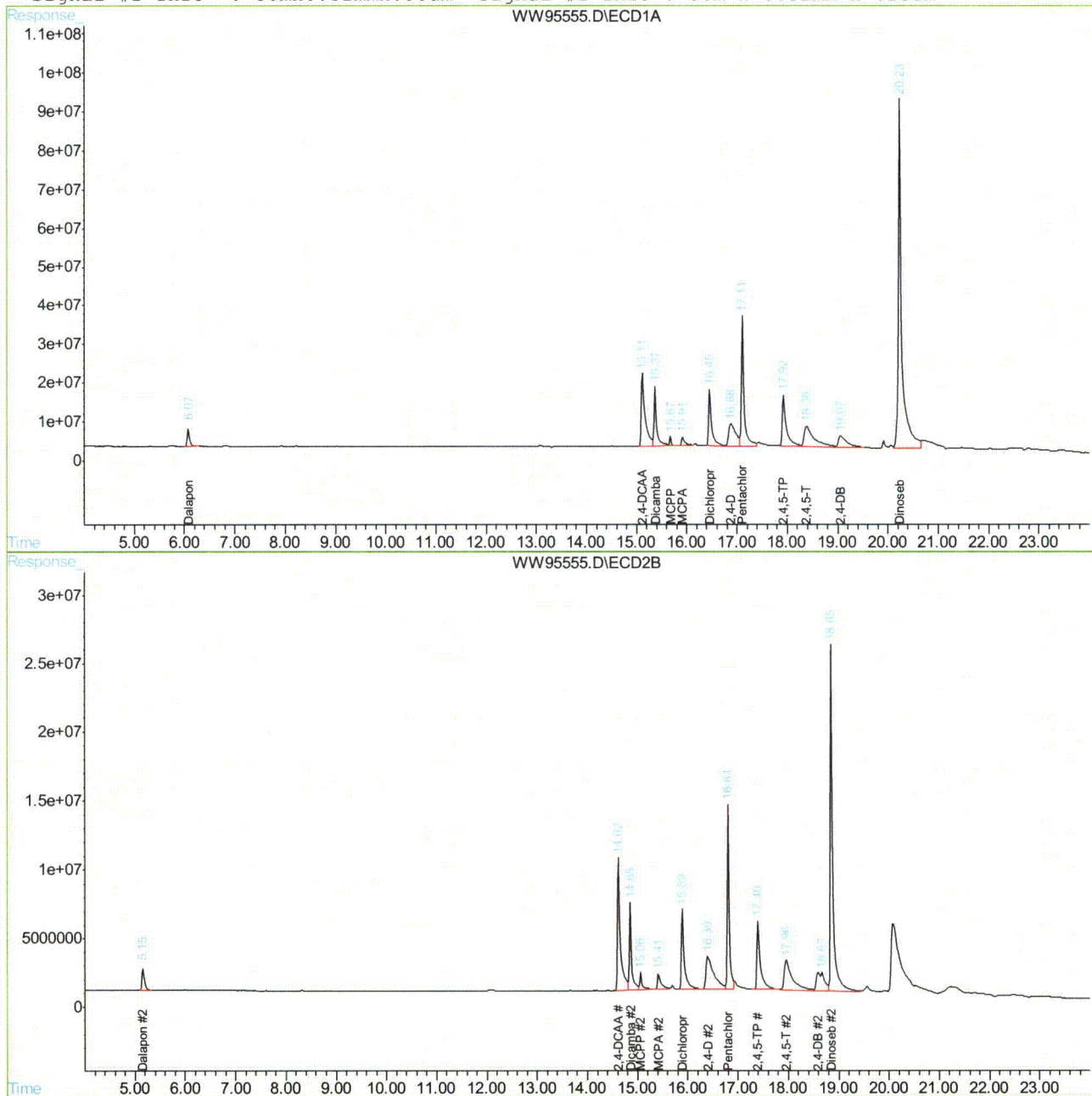


## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3343\WW95555.D\ECD1A.CH Vial: 1  
Signal #2 : C:\HPCHEM\1\DATA\GWW3343\WW95555.D\ECD2B.CH  
Acq On : 2 Nov 2010 11:25 am Operator: toyar  
Sample : cc3143-200 Inst : GCWW  
Misc : OP46386,Gww3343,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 2 11:42 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 02 11:41:27 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



WW95555.D HWW3143.M

Tue Nov 02 15:53:48 2010

GCCD

Page 2

Cheng-Hwan Ao  
11/04/10 16:54

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3343\WW95566.D\ECD1A.CH Vial: 12  
Signal #2 : C:\HPCHEM\1\DATA\GWW3343\WW95566.D\ECD2B.CH  
Acq On : 2 Nov 2010 5:40 pm Operator: toyar  
Sample : CC3143-300 Inst : GCWW  
Misc : OP46377,Gww3343,35.2,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 3 8:46 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Wed Nov 03 08:45:31 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	15.10	14.61	1486.7E6	555.7E6	676.077	591.263
Spiked Amount	500.000		Recovery	=	135.22%	118.25%

## Target Compounds

1) Dalapon	6.07	5.15	213.5E6	86235941	61.559	52.790
3) Dicamba	15.36	14.85	763.1E6	258.7E6	67.975	59.199
4) MCPP	15.67	15.06	81359627	40589049	15830.451	13312.750
5) MCPA	15.91	15.41	149.9E6	66557149	15366.417	13976.786
6) Dichloroprop	16.45	15.89	879.1E6	330.6E6	271.541	246.592
7) 2,4-D	16.86	16.39	865.0E6	376.5E6	277.750	266.374
8) Pentachloropheno	17.11	16.81	1654.4E6	540.2E6	36.421	31.526
9) 2,4,5-TP	17.92	17.39	1087.7E6	356.5E6	60.889	50.398
10) 2,4,5-T	18.36	17.94	1047.7E6	350.3E6	68.582	58.410
11) 2,4-DB	19.02	18.57	497.9E6	225.8E6	321.875m	310.636
12) Dinoseb	20.23	18.86	5483.2E6	1342.7E6	320.805m	272.322
13) Picloram	20.19	20.06	558.2E6	960.3E6	33.949m	116.390 #

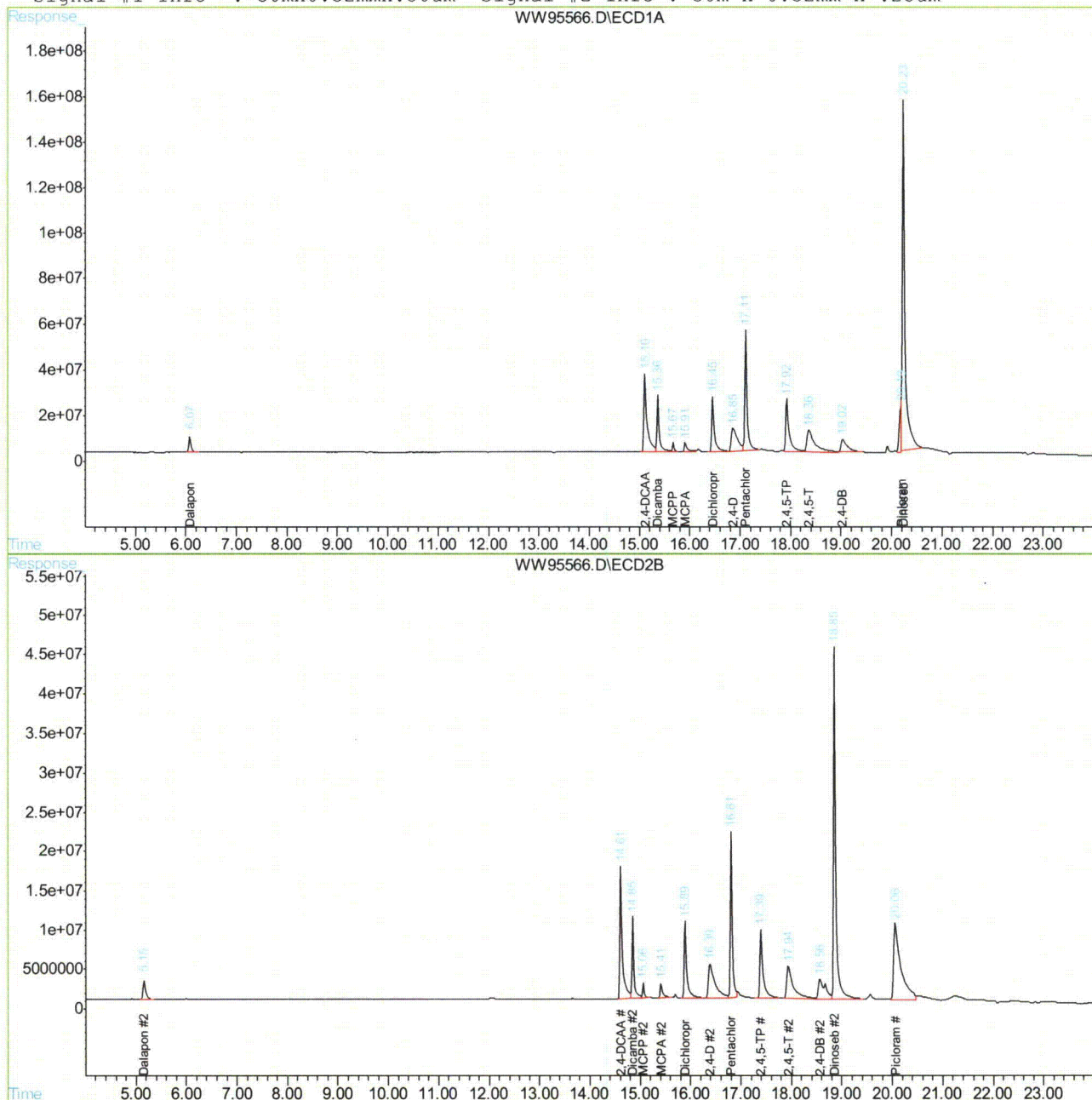
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
WW95566.D HWW3143.M Wed Nov 03 08:46:53 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3343\WW95566.D\ECD1A.CH Vial: 12  
Signal #2 : C:\HPCHEM\1\DATA\GWW3343\WW95566.D\ECD2B.CH  
Acq On : 2 Nov 2010 5:40 pm Operator: toyar  
Sample : CC3143-300 Inst : GCWW  
Misc : OP46377,Gww3343,35.2,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 3 8:46 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Wed Nov 03 08:45:31 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



WW95566.D HWW3143.M

Wed Nov 03 08:46:54 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** GWW3343-CC3143      **Method:** SW846 8151  
**Lab FileID:** WW95566.D      **Analyst approved:** 11/03/10 09:32 Toya Dagena Raffington  
**Injection Time:** 11/02/10 17:40      **Supervisor approved:** 11/04/10 16:54 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4-DB	94-82-6	1	19.02	Poorly defined baseline
Picloram	1918-02-1	1	20.19	Overlapping peak
Dinoseb	88-85-7	1	20.23	Overlapping peak

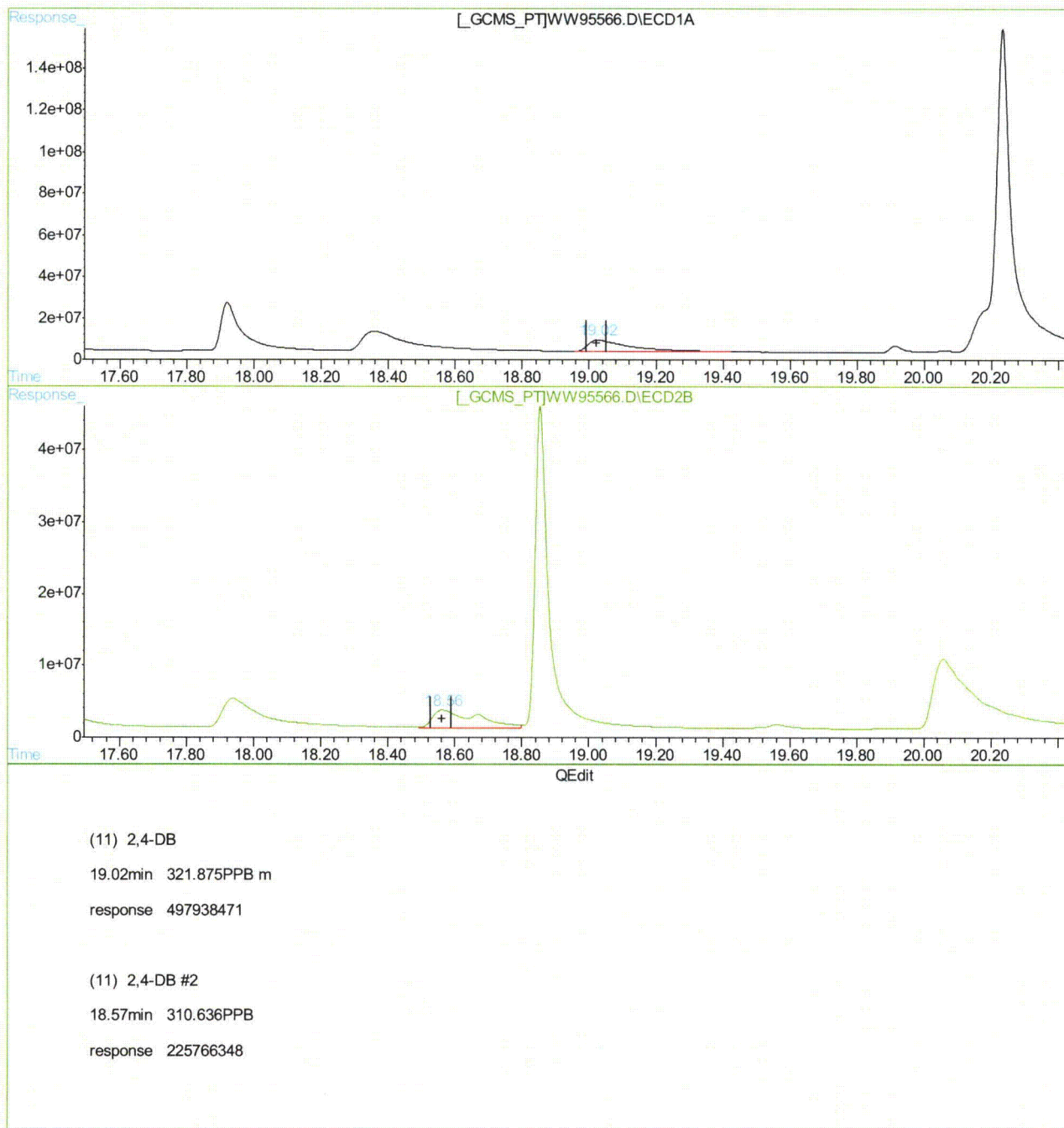
10.6.97.1

10

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3343\WW95566.D\ECD1A.CH Vial: 12  
Signal #2 : C:\HPCHEM\1\DATA\GWW3343\WW95566.D\ECD2B.CH  
Acq On : 2 Nov 2010 5:40 pm Operator: toyar  
Sample : CC3143-300 Inst : GCWW  
Misc : OP46377,Gww3343,35.2,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 3 8:45 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Wed Nov 03 08:45:31 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time

WW95566.D HWW3143.M

Wed Nov 03 08:46:00 2010

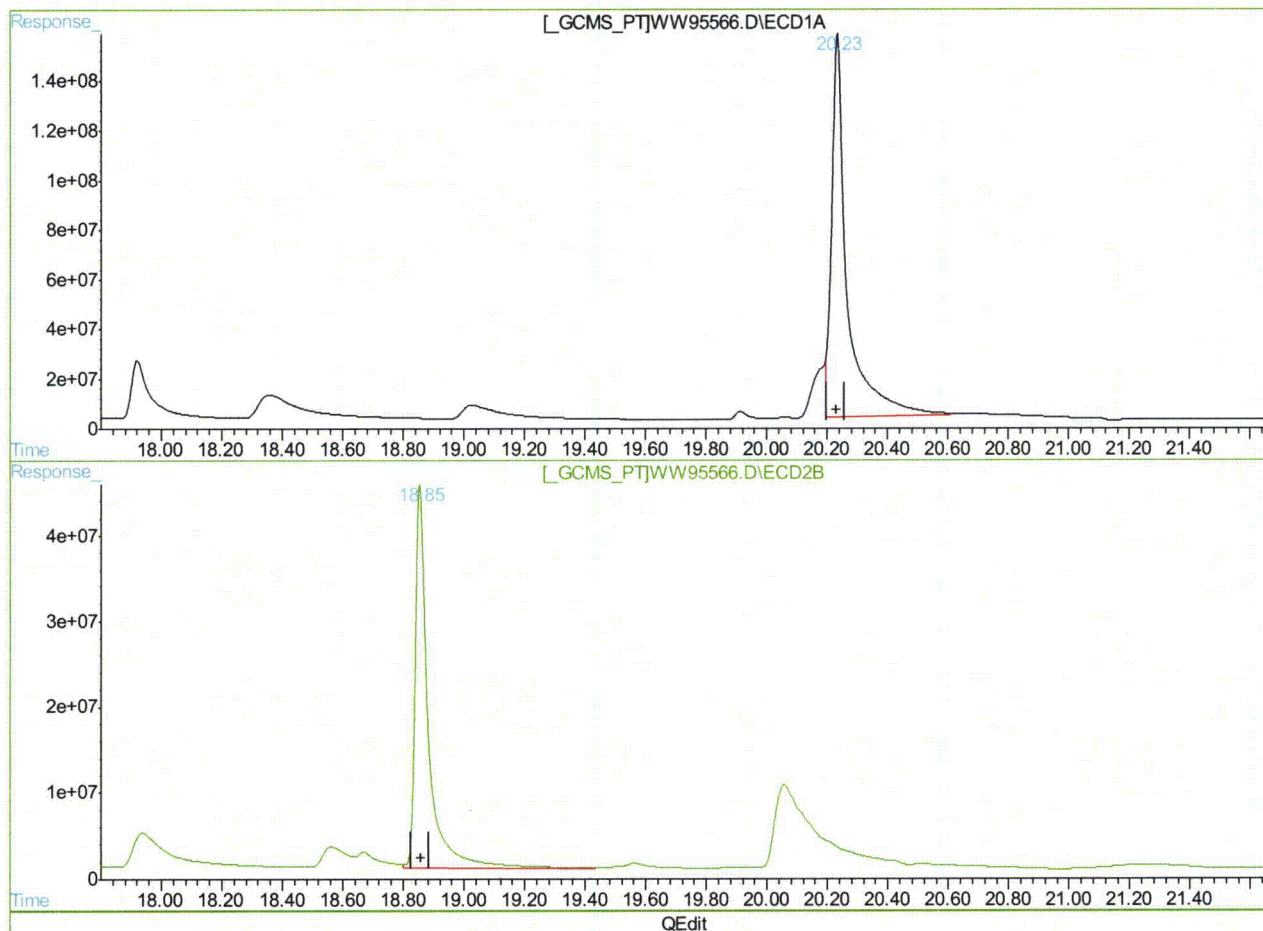
GCCD



## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3343\WW95566.D\ECD1A.CH Vial: 12  
Signal #2 : C:\HPCHEM\1\DATA\GWW3343\WW95566.D\ECD2B.CH  
Acq On : 2 Nov 2010 5:40 pm Operator: toyar  
Sample : CC3143-300 Inst : GCWW  
Misc : OP46377,Gww3343,35.2,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 3 8:45 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Wed Nov 03 08:45:31 2010  
Response via : Multiple Level Calibration



(12) Dinoseb  
20.23min 320.805PPB m  
response 5483202539

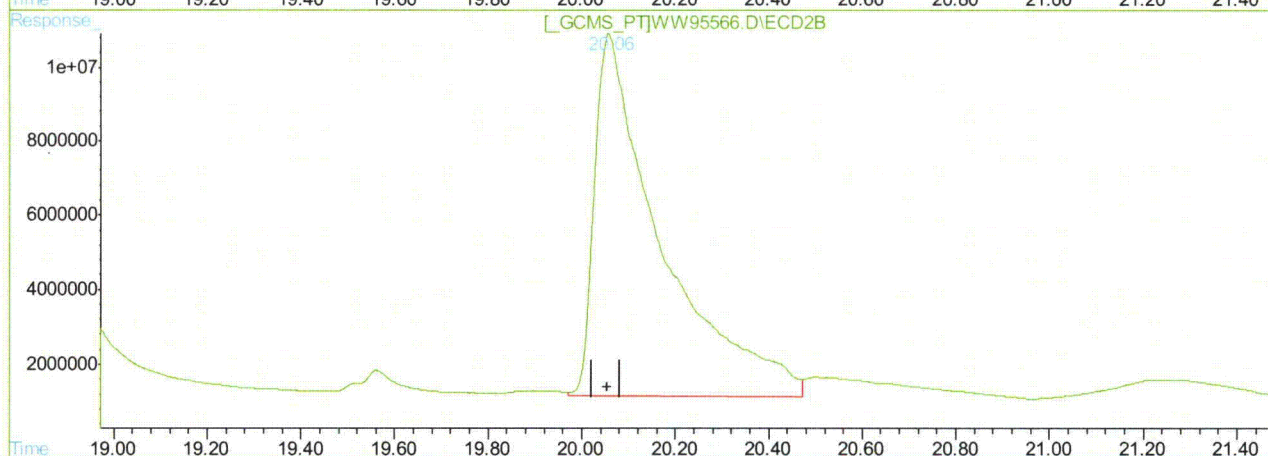
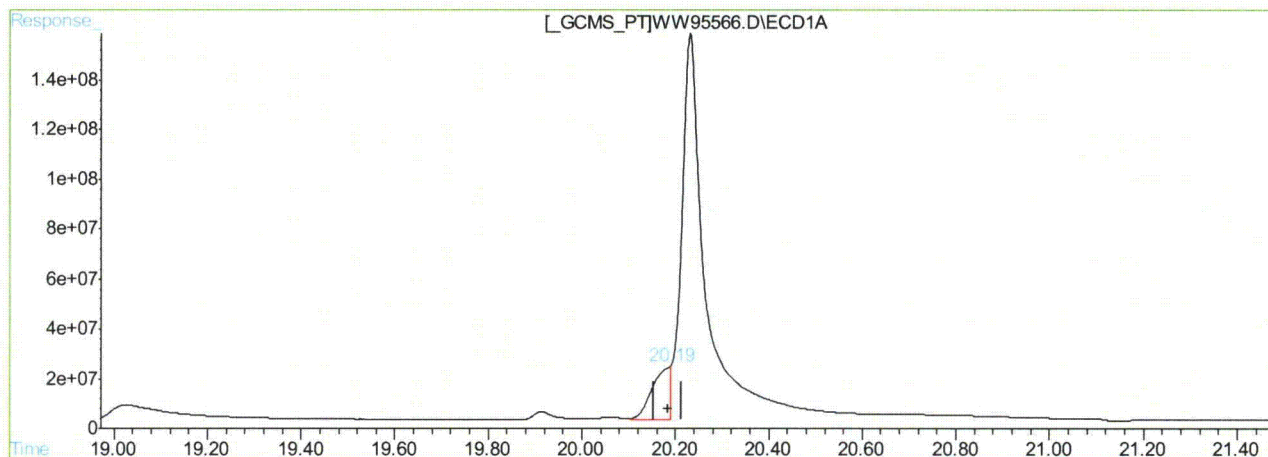
(12) Dinoseb #2  
18.86min 272.322PPB  
response 1342695500

(+) = Expected Retention Time  
WW95566.D HWW3143.M Wed Nov 03 08:46:27 2010 GCCD

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3343\WW95566.D\ECD1A.CH Vial: 12  
Signal #2 : C:\HPCHEM\1\DATA\GWW3343\WW95566.D\ECD2B.CH  
Acq On : 2 Nov 2010 5:40 pm Operator: toyar  
Sample : CC3143-300 Inst : GCWW  
Misc : OP46377,Gww3343,35.2,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 3 8:45 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Wed Nov 03 08:45:31 2010  
Response via : Multiple Level Calibration



QEdit

(13) Picloram

20.19min 33.949PPB m

response 558193237

(13) Picloram #2

20.06min 116.390PPB

response 960346076

(+) = Expected Retention Time

WW95566.D HWW3143.M

Wed Nov 03 08:46:38 2010

GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3344\WW95574.D\ECD1A.CH Vial: 1  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3344\WW95574.D\ECD2B.CH  
 Acq On : 3 Nov 2010 9:57 am Operator: toyar  
 Sample : CC3143-300 Inst : GCWW  
 Misc : OP46386,Gww3344,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 3 10:13 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Wed Nov 03 10:13:25 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	15.13	14.63	1510.0E6	567.0E6	686.666	603.290
Spiked Amount	500.000		Recovery	=	137.33%	120.66%

## Target Compounds

1) Dalapon	6.09	5.17	221.3E6	90001304	63.805	55.095
3) Dicamba	15.39	14.87	779.4E6	279.9E6	69.420	64.063
4) MCPP	15.69	15.08	86432868	77006520	16817.571	25257.269 #
5) MCPA	15.93	15.43	167.3E6	103.3E6	17150.955	21685.024 #
6) Dichloroprop	16.47	15.91	899.9E6	378.7E6	277.963	282.452
7) 2,4-D	16.89	16.42	874.3E6	434.3E6	280.740	307.318
8) Pentachloropheno	17.13	16.83	1715.9E6	578.6E6	37.775	33.764
9) 2,4,5-TP	17.94	17.42	1127.5E6	425.3E6	63.118	60.123
10) 2,4,5-T	18.40	17.97	1055.5E6	394.5E6	69.096	65.783
11) 2,4-DB	19.07	18.60	542.8E6	125.6E6	350.882	172.765 #
12) Dinoseb	20.26	18.88	6789.3E6	1417.6E6	397.220	287.511 #

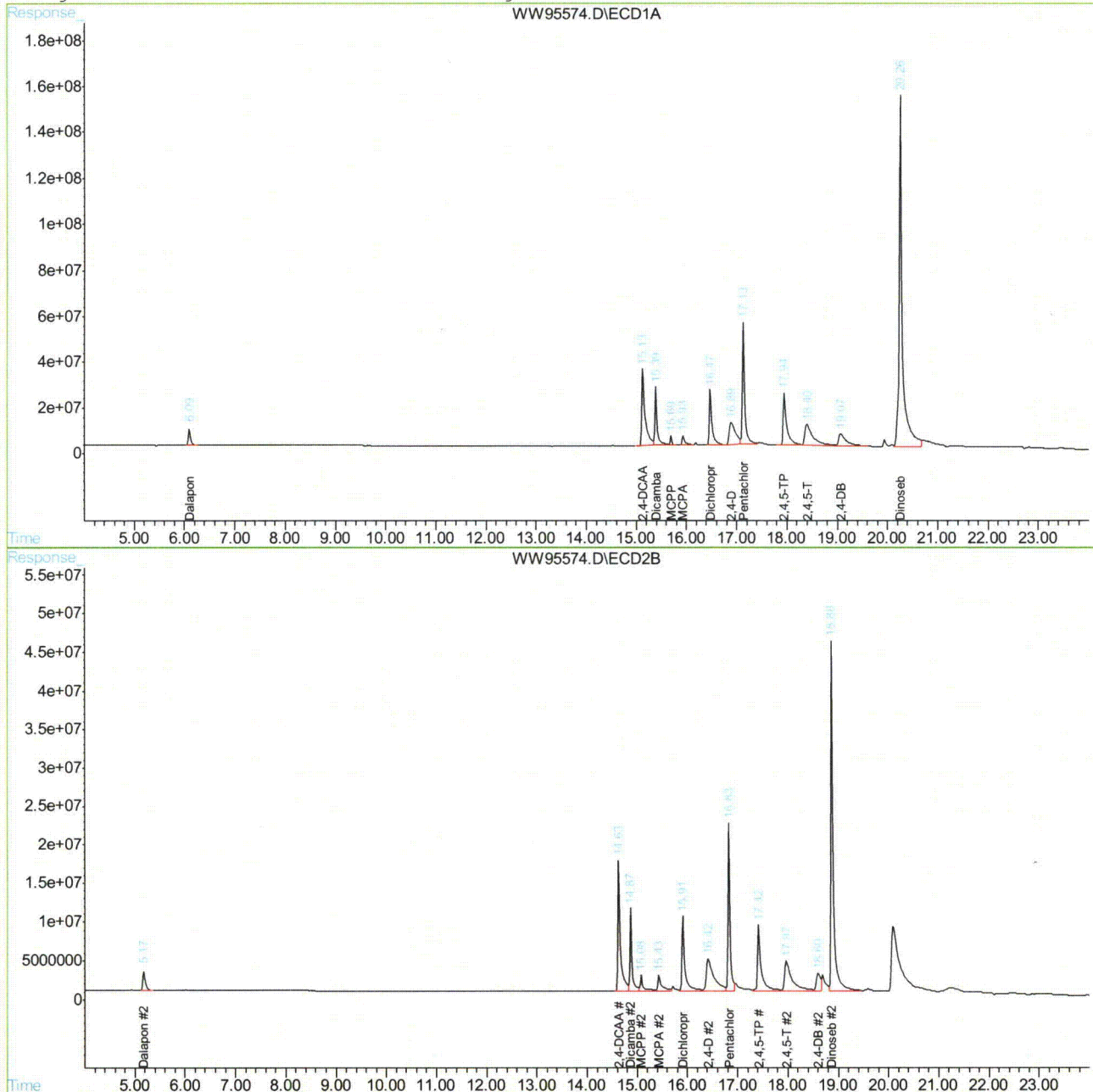
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95574.D HWW3143.M Wed Nov 03 12:28:50 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3344\WW95574.D\ECD1A.CH Vial: 1  
Signal #2 : C:\HPCHEM\1\DATA\GWW3344\WW95574.D\ECD2B.CH  
Acq On : 3 Nov 2010 9:57 am Operator: toyar  
Sample : CC3143-300 Inst : GCWW  
Misc : OP46386,Gww3344,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 3 10:13 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Wed Nov 03 10:13:25 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 : 30m x 0.32mm x .50um Signal #2 Info : 30m x 0.32mm x .25um



WW95574.D HWW3143.M Wed Nov 03 12:28:51 2010

GCCD

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## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3344\WW95585.D\ECD1A.CH Vial: 12  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3344\WW95585.D\ECD2B.CH  
 Acq On : 3 Nov 2010 2:30 pm Operator: toyar  
 Sample : Ecc3143-200 Inst : GCWW  
 Misc : OP46377,Gww3344,35.4,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 3 14:49 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Wed Nov 03 14:45:13 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	15.13	14.64	1010.7E6	378.4E6	459.637	402.534
Spiked Amount	500.000		Recovery	=	91.93%	80.51%

## Target Compounds

1) Dalapon	6.09	5.17	149.5E6	61162248	43.111	37.441
3) Dicamba	15.39	14.87	529.1E6	183.9E6	47.132	42.083
4) MCPP	15.69	15.08	51200308	39471195	9962.238	12946.106 #
5) MCPA	15.93	15.43	103.2E6	57077125	10575.744	11986.011
6) Dichloroprop	16.47	15.91	601.4E6	231.8E6	185.779	172.899
7) 2,4-D	16.90	16.42	567.8E6	260.5E6	182.320	184.327
8) Pentachloropheno	17.13	16.83	1111.7E6	343.5E6	24.472	20.045
9) 2,4,5-TP	17.94	17.41	693.4E6	244.4E6	38.816	34.554
10) 2,4,5-T	18.39	17.97	630.8E6	227.4E6	41.296	37.924
11) 2,4-DB	19.08	18.61	289.8E6	138.2E6	187.354	190.108
12) Dinoseb	20.25	18.88	3913.0E6	891.8E6	228.937	180.872

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95585.D HWW3143.M Wed Nov 03 14:49:42 2010 GCCD

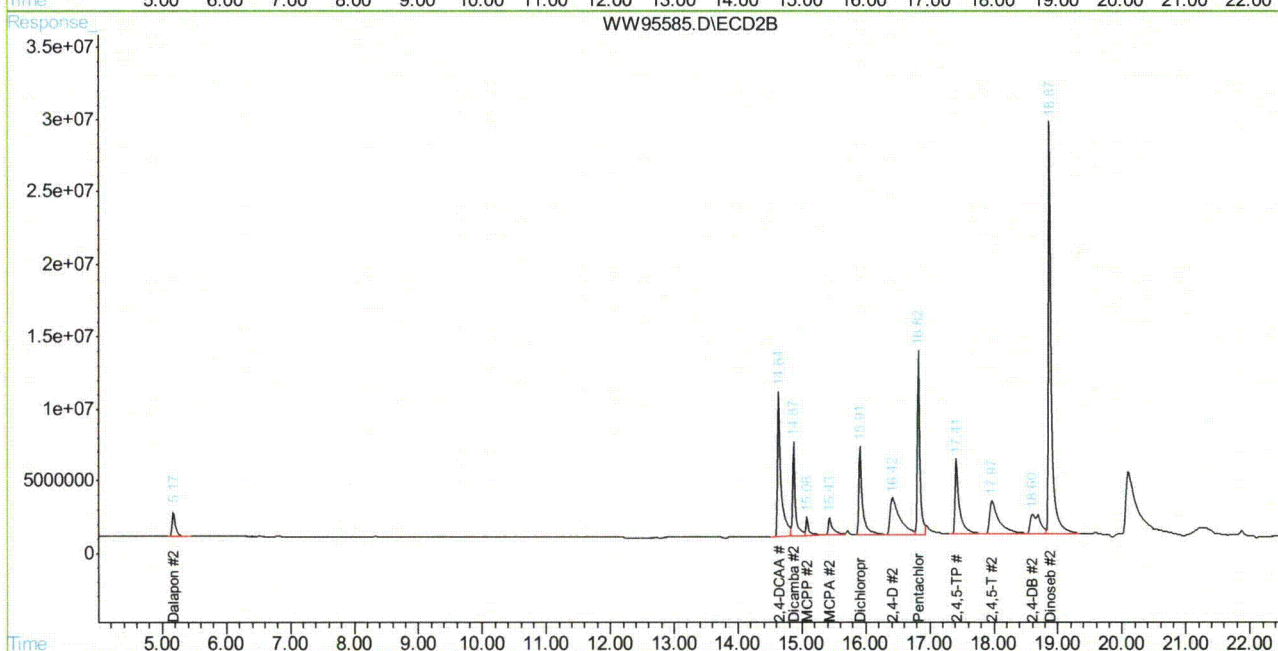
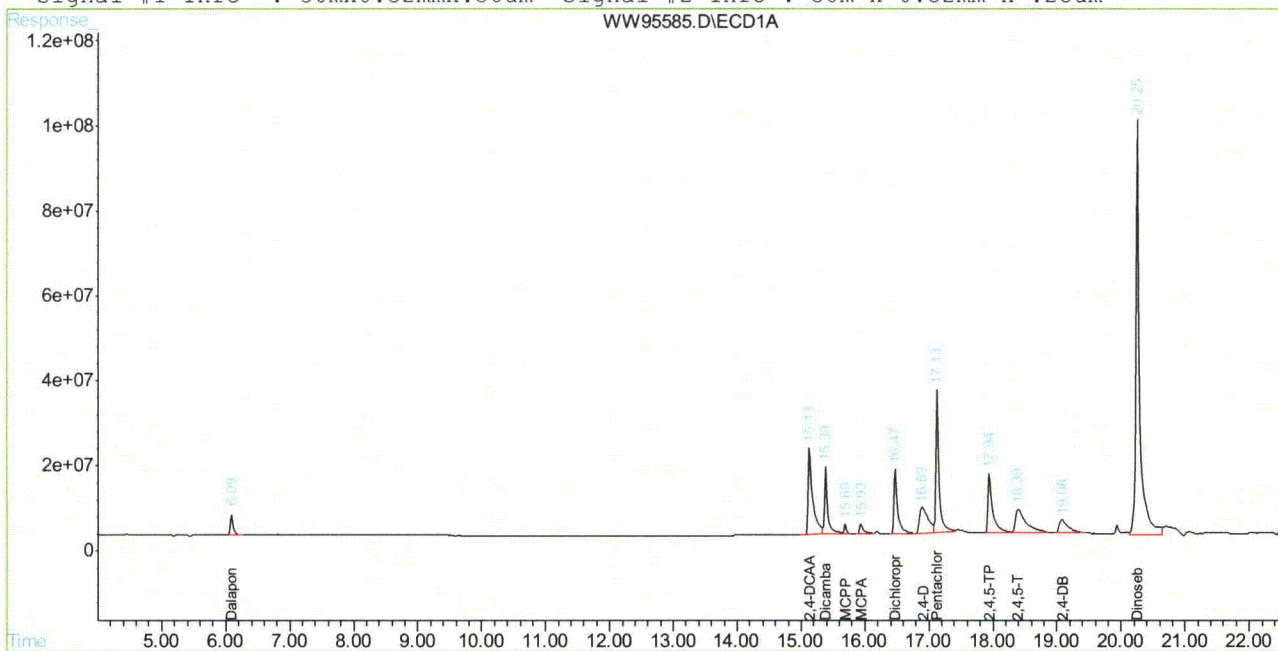


## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3344\WW95585.D\ECD1A.CH Vial: 12  
Signal #2 : C:\HPCHEM\1\DATA\GWW3344\WW95585.D\ECD2B.CH  
Acq On : 3 Nov 2010 2:30 pm Operator: toyar  
Sample : Ecc3143-200 Inst : GCWW  
Misc : OP46377,Gww3344,35.4,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 3 14:49 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Wed Nov 03 14:45:13 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



WW95585.D HWW3143.M

Wed Nov 03 14:49:42 2010

GCCD

Page 2

Jessica Reitan-Chu  
11/05/10 17:44

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3346\WW95596.D\ECD1A.CH Vial: 23  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3346\WW95596.D\ECD2B.CH  
 Acq On : 3 Nov 2010 5:27 pm Operator: toyar  
 Sample : cc3143-300 Inst : GCWW  
 Misc : OP46489,Gww3346,20,,,2,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 3 17:53 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Wed Nov 03 17:51:20 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	15.12	14.62	1516.2E6	569.8E6	689.487	606.258
Spiked Amount	500.000		Recovery	=	137.90%	121.25%

## Target Compounds

1) Dalapon	6.09	5.17	224.8E6	89968246	64.801	55.074
3) Dicamba	15.38	14.87	770.3E6	268.9E6	68.614	61.534
4) MCPP	15.69	15.08	80189404	49464043	15602.756	16223.648
5) MCPA	15.92	15.42	153.3E6	75160595	15708.714	15783.481
6) Dichloroprop	16.47	15.90	895.5E6	347.7E6	276.600	259.354
7) 2,4-D	16.87	16.39	942.1E6	407.4E6	302.506	288.265
8) Pentachloropheno	17.13	16.82	1742.6E6	562.6E6	38.363	32.831
9) 2,4,5-TP	17.94	17.41	1109.9E6	403.5E6	62.135	57.049
10) 2,4,5-T	18.37	17.94	1054.4E6	389.5E6	69.019	64.957
11) 2,4-DB	19.03	18.57	574.9E6	244.1E6	371.630	335.869
12) Dinoseb	20.25	18.87	5501.5E6	1360.8E6	321.878m	275.995
13) Picloram	20.21f	20.07	859.3E6	1067.1E6	52.260m	129.325 #

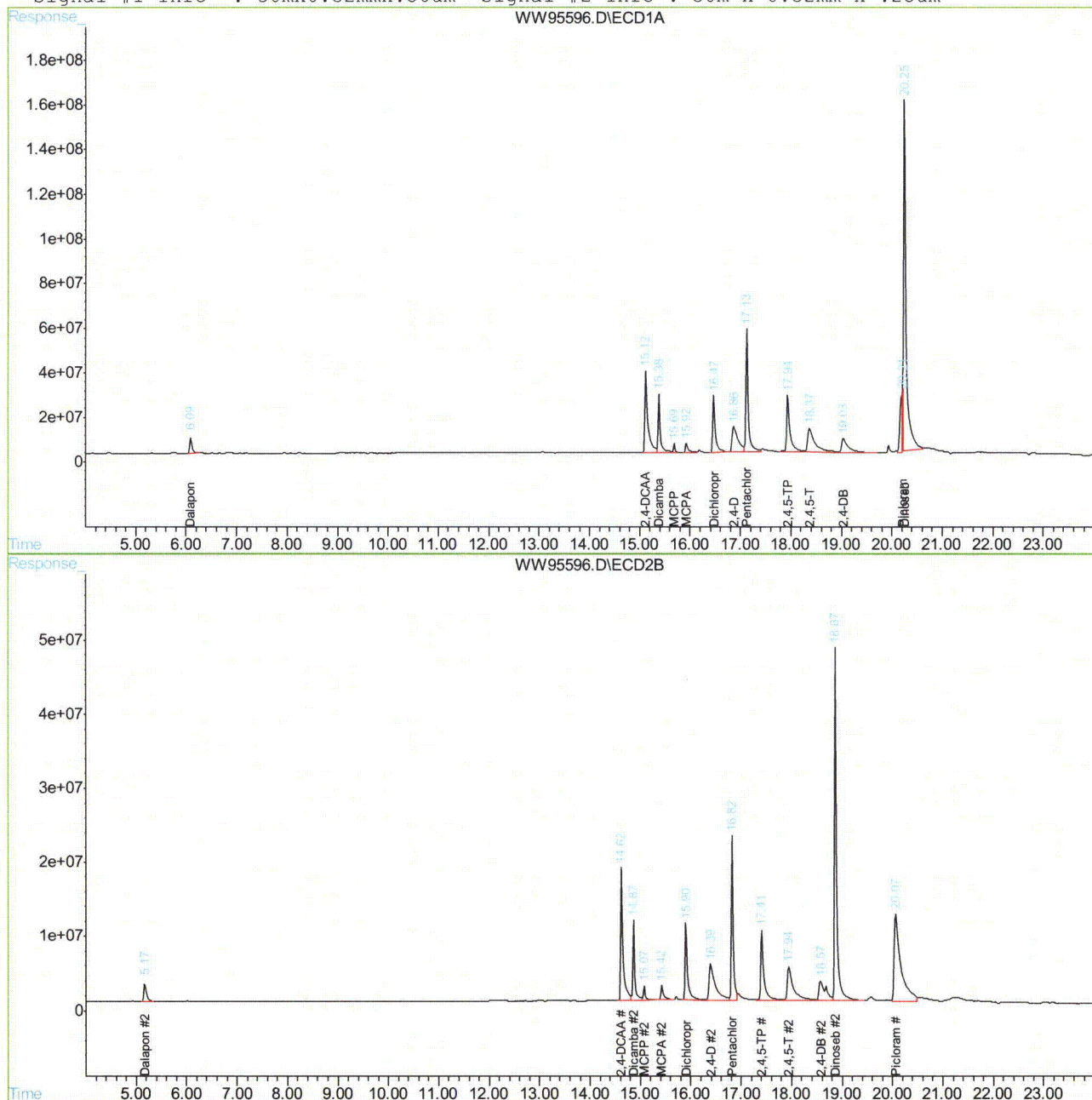
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95596.D HWW3143.M Wed Nov 03 17:53:23 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3346\WW95596.D\ECD1A.CH Vial: 23  
Signal #2 : C:\HPCHEM\1\DATA\GWW3346\WW95596.D\ECD2B.CH  
Acq On : 3 Nov 2010 5:27 pm Operator: toyar  
Sample : cc3143-300 Inst : GCWW  
Misc : OP46489,Gww3346,20,,,2,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 3 17:53 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Wed Nov 03 17:51:20 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



WW95596.D HWW3143.M

Wed Nov 03 17:53:24 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** GWW3346-CC3143      **Method:** SW846 8151  
**Lab FileID:** WW95596.D      **Analyst approved:** 11/05/10 10:12 Toya Dagena Raffington  
**Injection Time:** 11/03/10 17:27      **Supervisor approved:** 11/05/10 17:44 Jessica Reitan-Chu

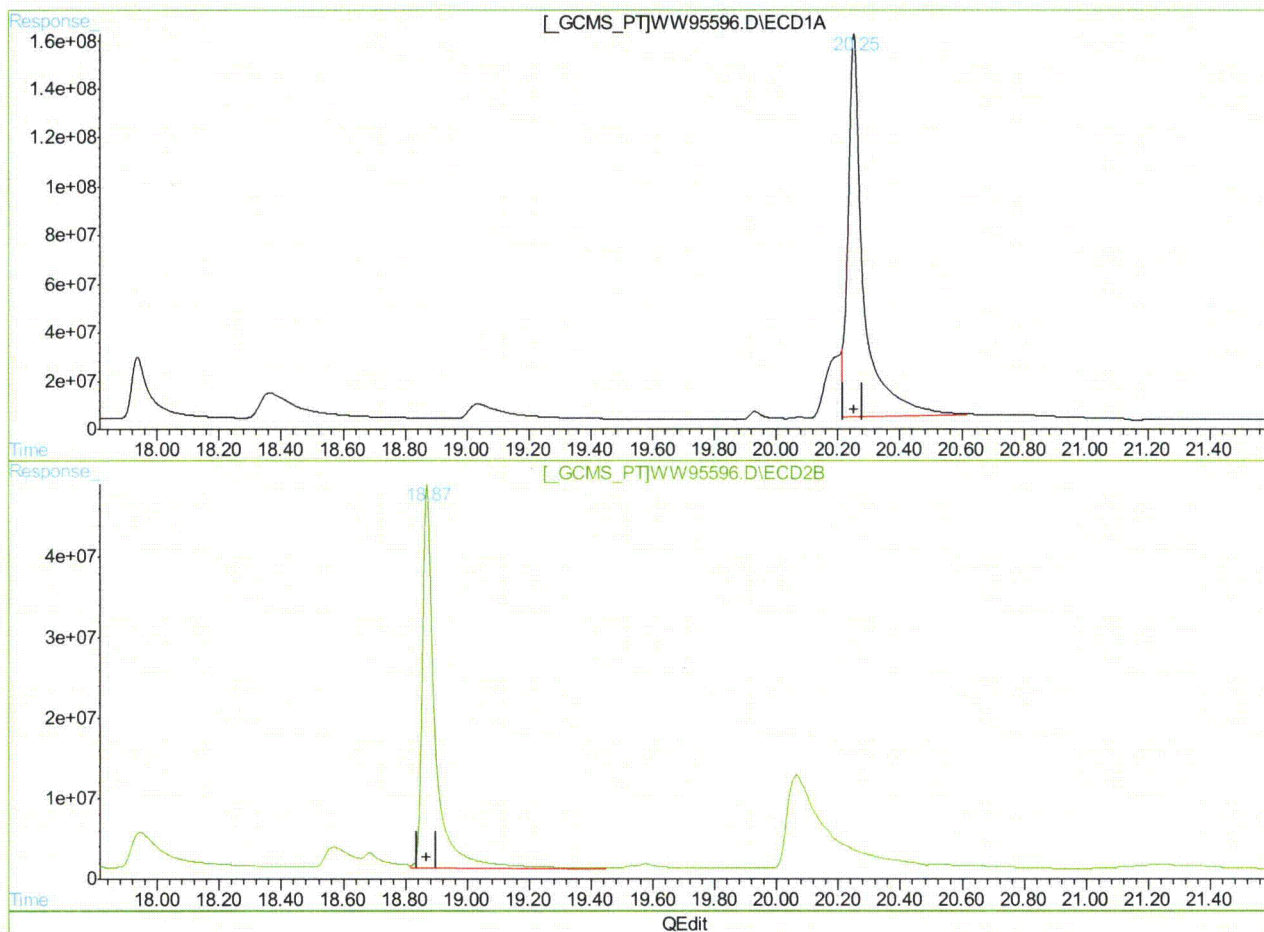
Parameter	CAS	Sig#	R. T. (min.)	Reason
Picloram	1918-02-1	1	20.21	Overlapping peak
Dinoseb	88-85-7	1	20.25	Overlapping peak

10.6.100.1  
**10**

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3346\WW95596.D\ECD1A.CH Vial: 23  
Signal #2 : C:\HPCHEM\1\DATA\GWW3346\WW95596.D\ECD2B.CH  
Acq On : 3 Nov 2010 5:27 pm Operator: toyar  
Sample : cc3143-300 Inst : GCWW  
Misc : OP46489,Gww3346,20,,,2,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 3 17:52 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Wed Nov 03 17:51:20 2010  
Response via : Multiple Level Calibration



(12) Dinoseb  
20.25min 321.878PPB m  
response 5501528756

(12) Dinoseb #2  
18.87min 275.995PPB  
response 1360802249

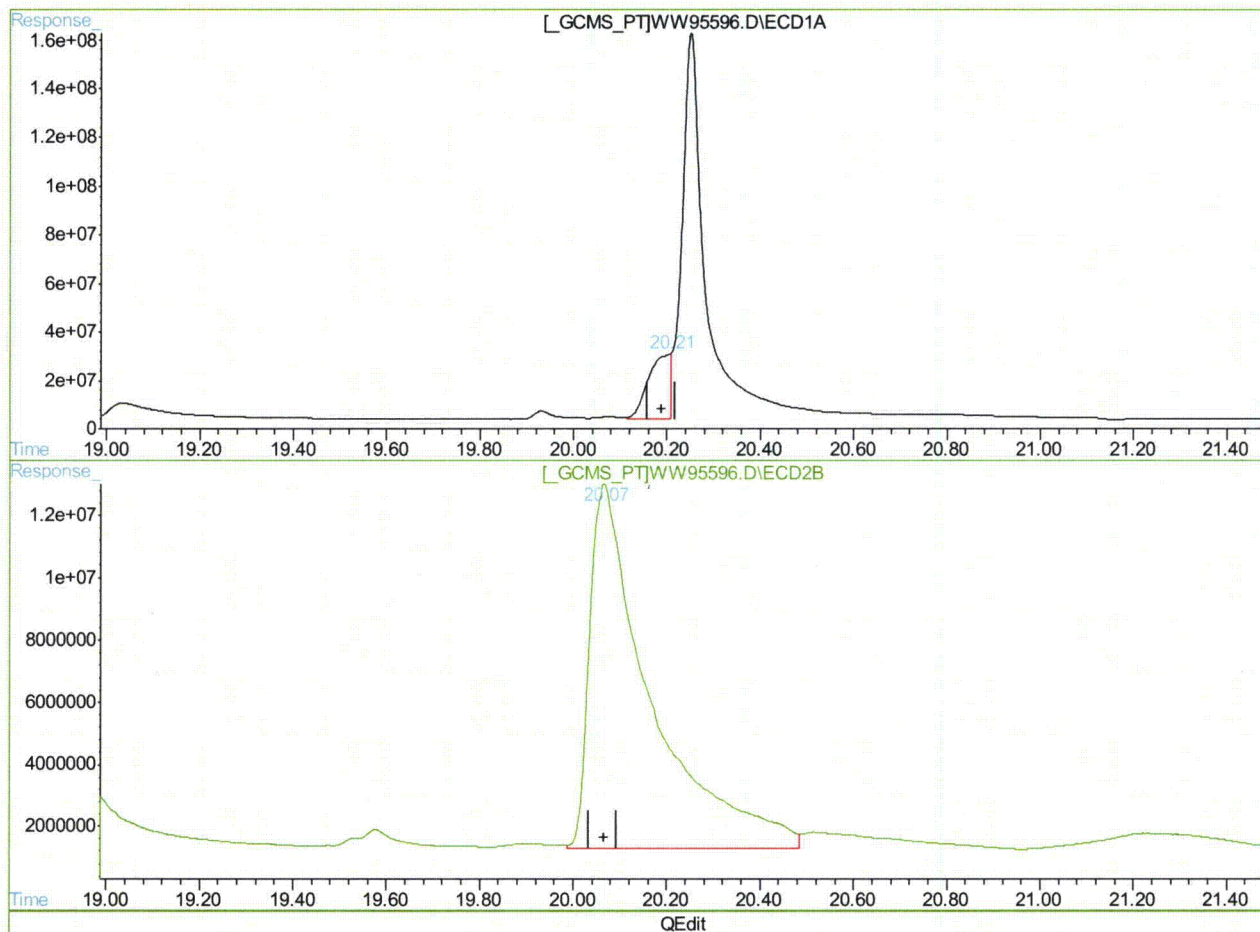
(+) = Expected Retention Time  
WW95596.D HWW3143.M Wed Nov 03 17:53:08 2010 GCCD



## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3346\WW95596.D\ECD1A.CH Vial: 23  
Signal #2 : C:\HPCHEM\1\DATA\GWW3346\WW95596.D\ECD2B.CH  
Acq On : 3 Nov 2010 5:27 pm Operator: toyar  
Sample : cc3143-300 Inst : GCWW  
Misc : OP46489,Gww3346,20,,,2,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 3 17:52 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Wed Nov 03 17:51:20 2010  
Response via : Multiple Level Calibration



(13) Picloram  
20.21min 52.260PPB m  
response 859263746

(13) Picloram #2  
20.07min 129.325PPB  
response 1067067091

(+) = Expected Retention Time  
WW95596.D HWW3143.M Wed Nov 03 17:53:11 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3346\WW95607.D\ECD1A.CH Vial: 34  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3346\WW95607.D\ECD2B.CH  
 Acq On : 4 Nov 2010 12:08 am Operator: toyar  
 Sample : cc3143-200 Inst : GCWW  
 Misc : OP46489,Gww3346,890,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 4 8:59 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Thu Nov 04 08:59:22 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	1003.8E6	374.4E6	456.485	398.363
Spiked Amount	500.000		Recovery	=	91.30%	79.67%
Target Compounds						
1) Dalapon	6.09	5.17	148.6E6	60719271	42.837	37.170
3) Dicamba	15.39	14.88	546.7E6	183.6E6	48.691	42.023
4) MCPP	15.69	15.08	55716676	33690786	10841.005	11050.197
5) MCPA	15.94	15.44	109.6E6	56103010	11231.106	11781.450
6) Dichloroprop	16.48	15.91	603.5E6	232.0E6	186.411	173.041
7) 2,4-D	16.91	16.43	559.4E6	264.2E6	179.635	186.910
8) Pentachloropheno	17.13	16.83	1204.3E6	397.9E6	26.512	23.219
9) 2,4,5-TP	17.95	17.42	732.9E6	242.8E6	41.026	34.320
10) 2,4,5-T	18.42	17.99	715.7E6	237.6E6	46.850	39.615
11) 2,4-DB	19.09	18.69f	365.6E6	122.6E6	236.346	168.708m#
12) Dinoseb	20.26	18.88	4021.0E6	904.9E6	235.258	183.534

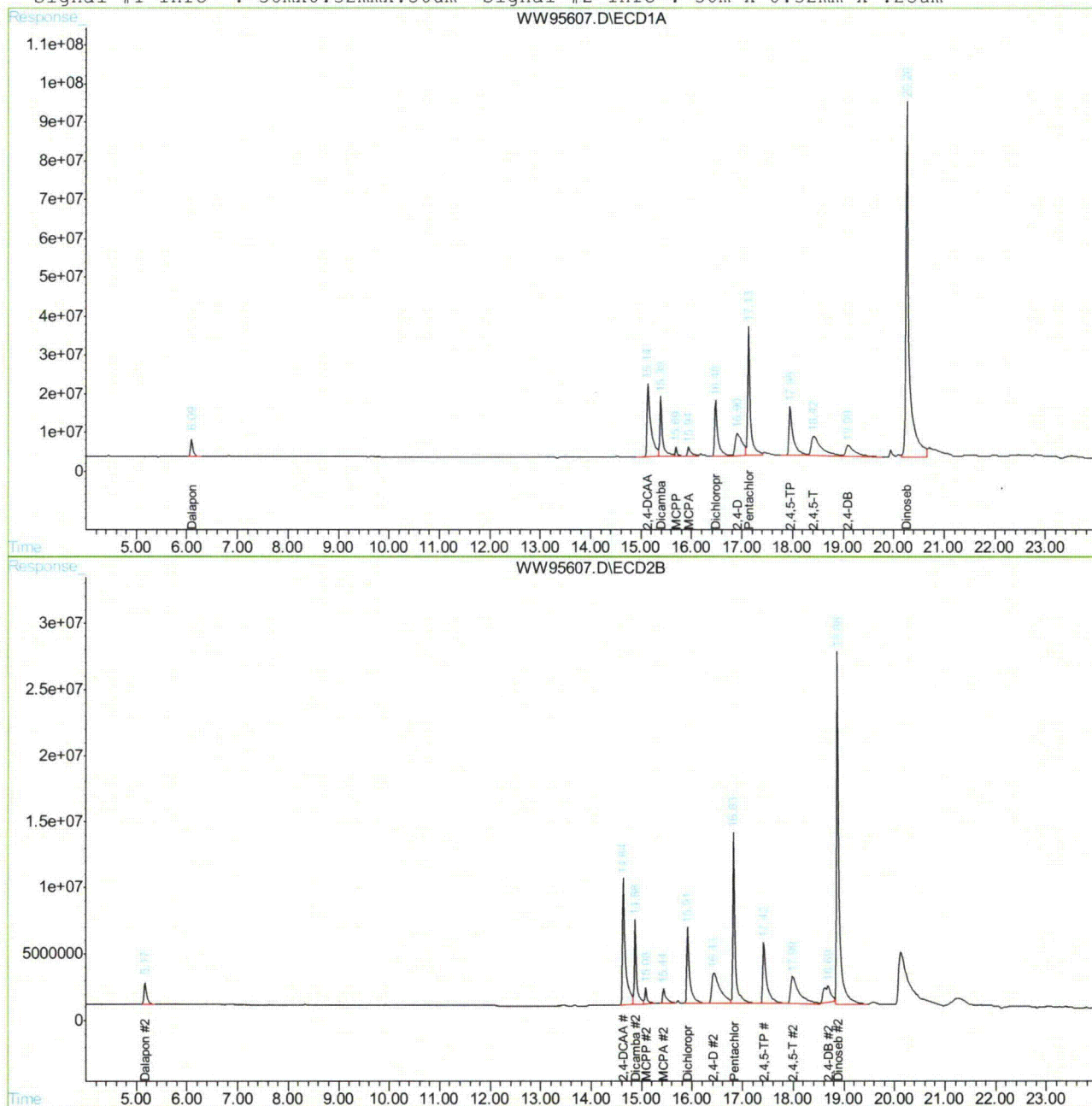
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95607.D HWW3143.M Thu Nov 04 09:00:19 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3346\WW95607.D\ECD1A.CH Vial: 34  
Signal #2 : C:\HPCHEM\1\DATA\GWW3346\WW95607.D\ECD2B.CH  
Acq On : 4 Nov 2010 12:08 am Operator: toyar  
Sample : cc3143-200 Inst : GCWW  
Misc : OP46489,Gww3346,890,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 8:59 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Thu Nov 04 08:59:22 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



WW95607.D HWW3143.M Thu Nov 04 09:00:19 2010 GCCD

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## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** GWW3346-CC3143      **Method:** SW846 8151  
**Lab FileID:** WW95607.D      **Analyst approved:** 11/05/10 10:12 Toya Dagena Raffington  
**Injection Time:** 11/04/10 00:08      **Supervisor approved:** 11/05/10 17:46 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4-DB	94-82-6	2	18.69	Missed peak

10.6.101.1

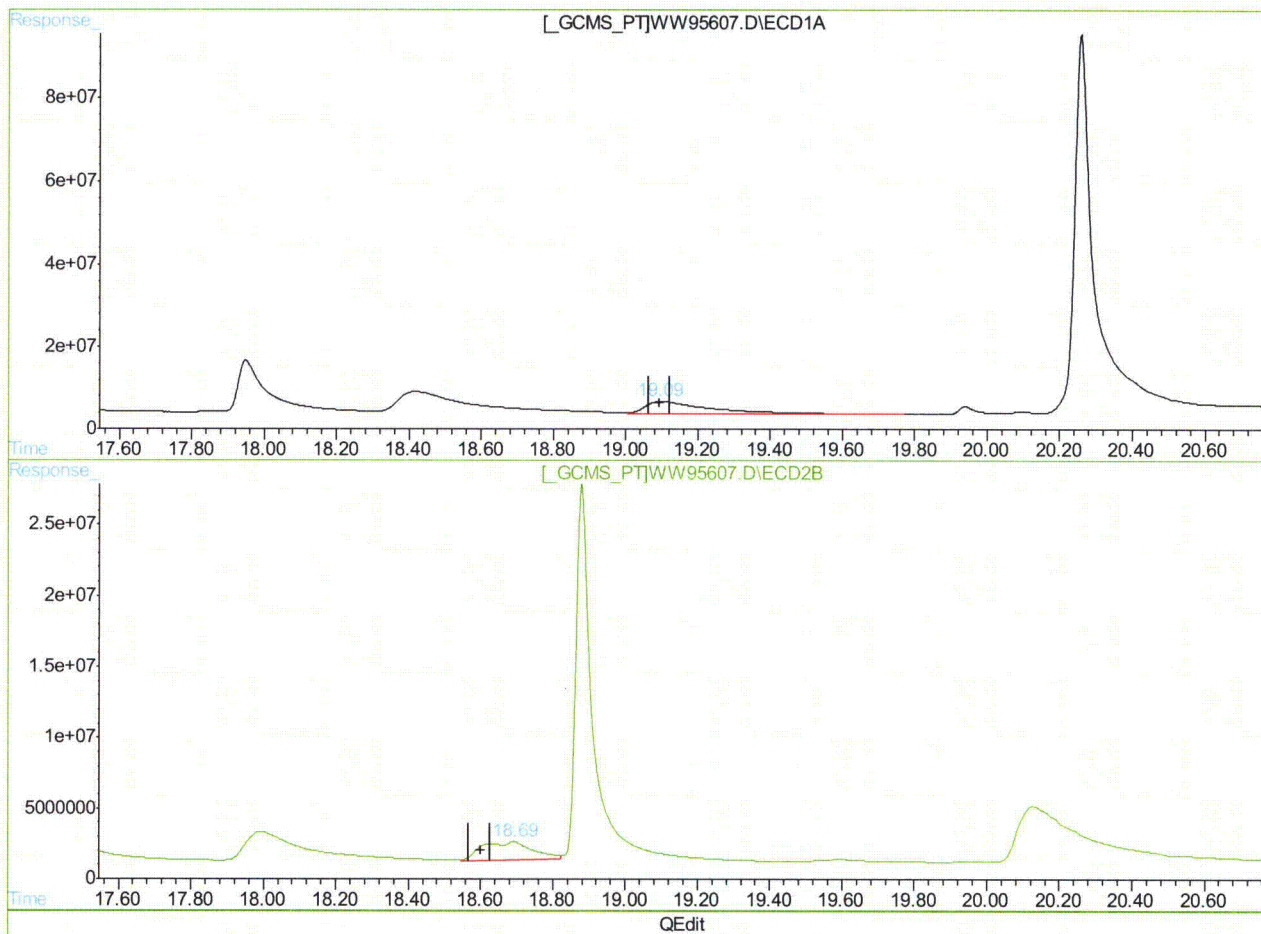
10



## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3346\WW95607.D\ECD1A.CH Vial: 34  
Signal #2 : C:\HPCHEM\1\DATA\GWW3346\WW95607.D\ECD2B.CH  
Acq On : 4 Nov 2010 12:08 am Operator: toyar  
Sample : cc3143-200 Inst : GCWW  
Misc : OP46489,Gww3346,890,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 8:59 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Thu Nov 04 08:59:22 2010  
Response via : Multiple Level Calibration



(11) 2,4-DB

19.09min 236.346PPB

response 365626297

(11) 2,4-DB #2

18.69min 168.708PPB m

response 122614535

(+) = Expected Retention Time  
WW95607.D HWW3143.M Thu Nov 04 08:59:55 2010

GCCD



## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3346\WW95618.D\ECD1A.CH Vial: 45  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3346\WW95618.D\ECD2B.CH  
 Acq On : 4 Nov 2010 6:54 am Operator: toyar  
 Sample : cc3143-300 Inst : GCWW  
 Misc : OP46441,Gww3346,5.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 4 8:56 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Thu Nov 04 08:55:57 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	15.13	14.63	1568.0E6	588.8E6	713.053	626.405
Spiked Amount	500.000		Recovery	=	142.61%	125.28%

## Target Compounds

1) Dalapon	6.09	5.17	225.3E6	89970110	64.949	55.076
3) Dicamba	15.39	14.87	833.7E6	290.8E6	74.259	66.551
4) MCPP	15.69	15.08	93503715	75135583	18193.372	24643.623 #
5) MCPA	15.93	15.43	166.4E6	99519271	17059.685	20898.725
6) Dichloroprop	16.47	15.91	934.6E6	382.2E6	288.699	285.090
7) 2,4-D	16.90	16.42	890.6E6	436.1E6	285.981	308.555
8) Pentachloropheno	17.13	16.83	1798.0E6	600.3E6	39.582	35.032
9) 2,4,5-TP	17.95	17.42	1171.6E6	418.7E6	65.587	59.199
10) 2,4,5-T	18.41	17.98	1139.7E6	383.4E6	74.605	63.928
11) 2,4-DB	19.07	18.60	638.0E6	230.8E6	412.445	317.527
12) Dinoseb	20.26	18.88	6638.6E6	1453.1E6	388.403	294.717

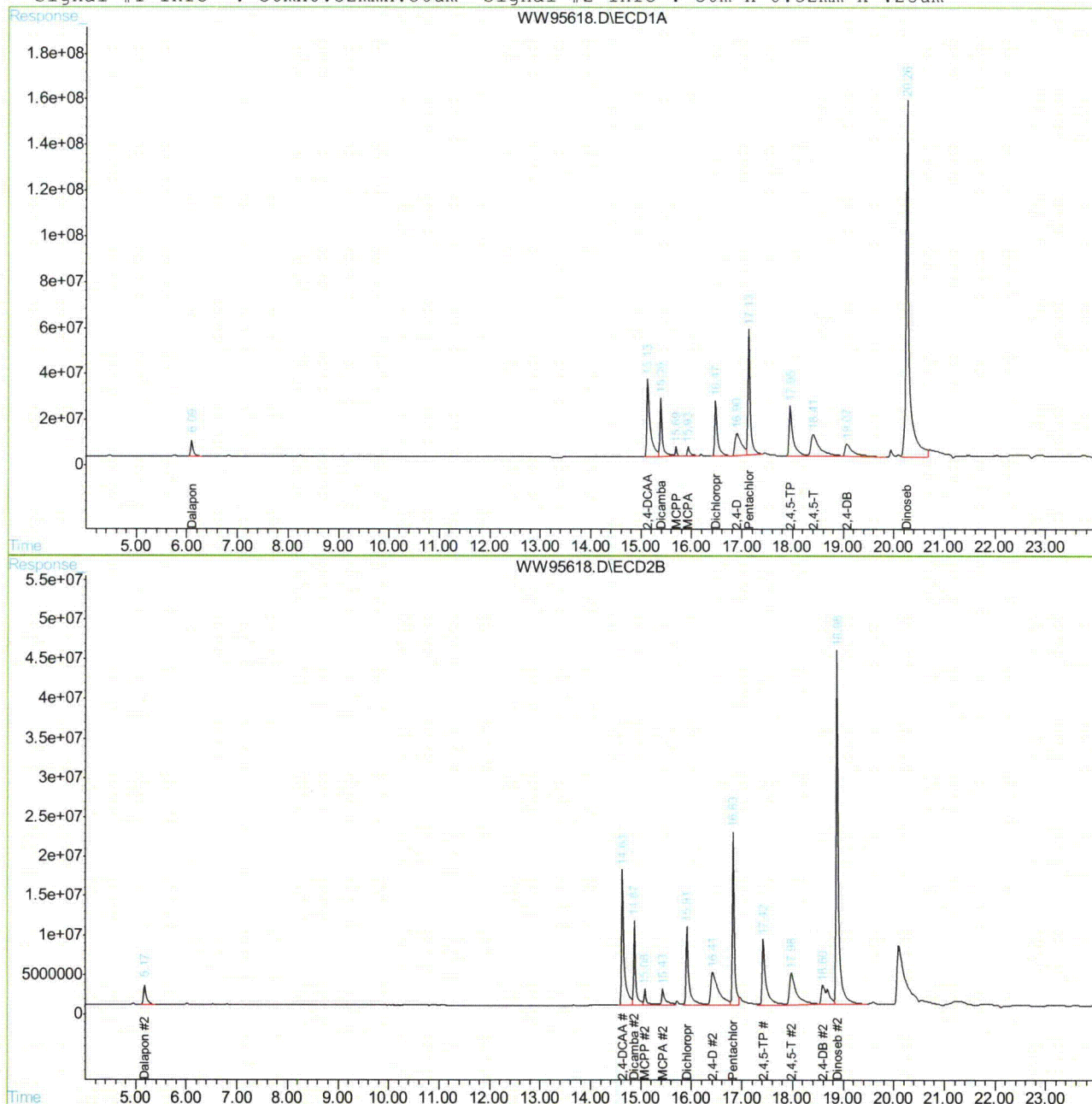
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95618.D HWW3143.M Thu Nov 04 08:57:10 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3346\WW95618.D\ECD1A.CH Vial: 45  
Signal #2 : C:\HPCHEM\1\DATA\GWW3346\WW95618.D\ECD2B.CH  
Acq On : 4 Nov 2010 6:54 am Operator: toyar  
Sample : cc3143-300 Inst : GCWW  
Misc : OP46441,Gww3346,5.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 8:56 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Thu Nov 04 08:55:57 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



WW95618.D HWW3143.M

Thu Nov 04 08:57:10 2010

GCCD

Page 2

Jessica Reitan-Chu  
11/05/10 17:51

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3346\WW95629.D\ECD1A.CH Vial: 56  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3346\WW95629.D\ECD2B.CH  
 Acq On : 4 Nov 2010 1:43 pm Operator: toyar  
 Sample : Ecc3143-200 Inst : GCWW  
 Misc : OP46441,Gww3346,35.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 4 14:20 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Thu Nov 04 14:20:18 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	15.14	14.64	1072.1E6	398.5E6	487.524	423.959
Spiked Amount	500.000		Recovery	=	97.50%	84.79%

## Target Compounds

1) Dalapon	6.09	5.17	157.7E6	63785568	45.449	39.047
3) Dicamba	15.39	14.88	589.3E6	195.9E6	52.489	44.841
4) MCPP	15.69	15.08	61935330	35120279	12050.992	11519.055
5) MCPA	15.94	15.44	118.6E6	59180062	12158.771	12427.621
6) Dichloroprop	16.48	15.91	644.4E6	247.6E6	199.044	184.697
7) 2,4-D	16.91	16.43	567.6E6	280.1E6	182.275	198.156
8) Pentachloropheno	17.13	16.83	1225.0E6	428.1E6	26.967	24.984
9) 2,4,5-TP	17.95	17.43	781.0E6	261.7E6	43.721	36.993
10) 2,4,5-T	18.43	18.00	743.5E6	252.0E6	48.673	42.028
11) 2,4-DB	19.11	18.70f	352.3E6	130.6E6	227.710	179.660m
12) Dinoseb	20.26	18.88	4189.7E6	989.5E6	245.125	200.690

10.6.103 10

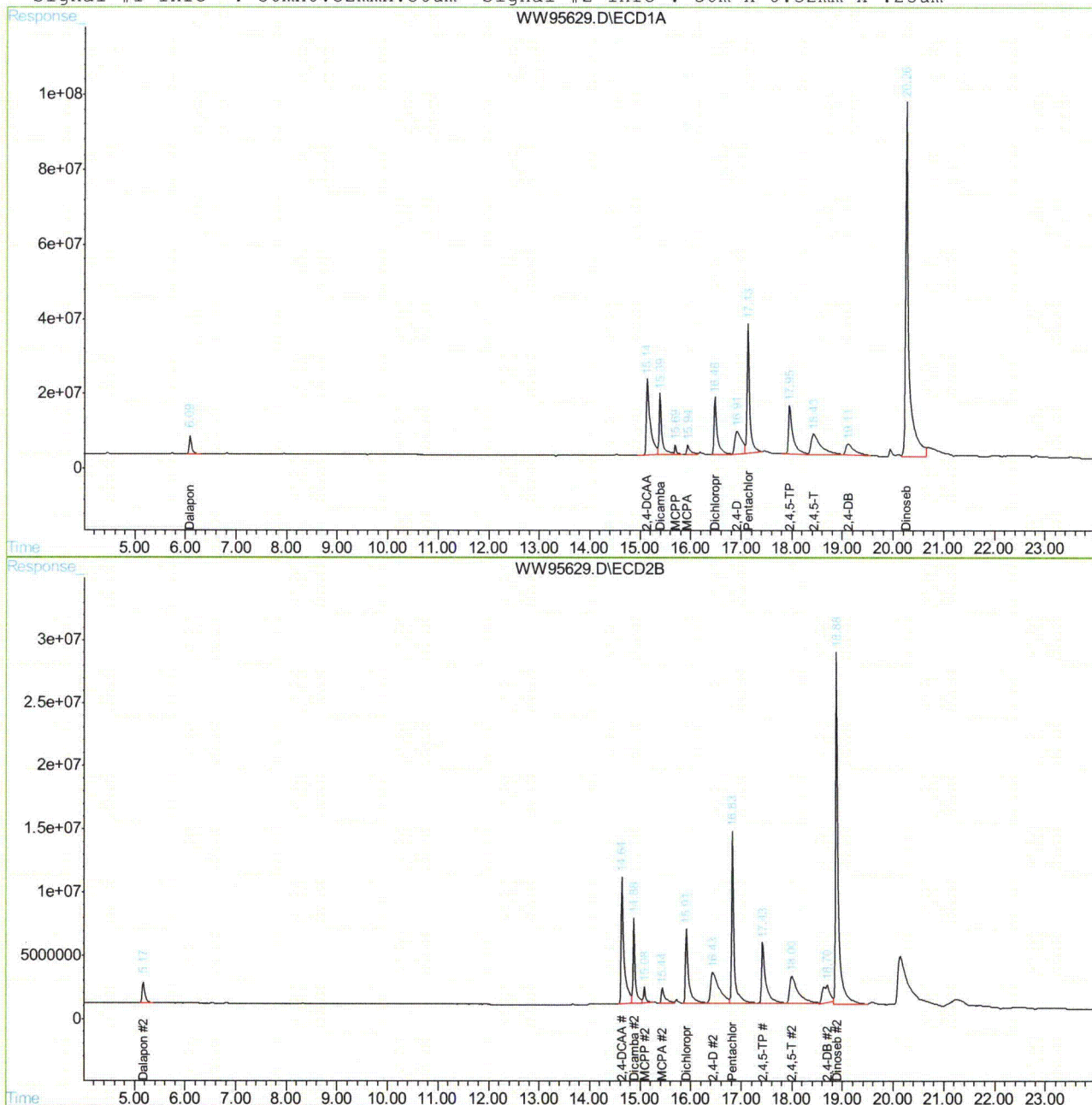
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95629.D HWW3143.M Thu Nov 04 14:21:01 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3346\WW95629.D\ECD1A.CH Vial: 56  
Signal #2 : C:\HPCHEM\1\DATA\GWW3346\WW95629.D\ECD2B.CH  
Acq On : 4 Nov 2010 1:43 pm Operator: toyar  
Sample : Ecc3143-200 Inst : GCWW  
Misc : OP46441,Gww3346,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 14:20 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Thu Nov 04 14:20:18 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



WW95629.D HWW3143.M

Thu Nov 04 14:21:02 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** GWW3346-ECC3143    **Method:** SW846 8151  
**Lab FileID:** WW95629.D    **Analyst approved:** 11/05/10 10:12 Toya Dagena Raffington  
**Injection Time:** 11/04/10 13:43    **Supervisor approved:** 11/05/10 17:51 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4-DB	94-82-6	2	18.70	Missed peak

10.6.103.1

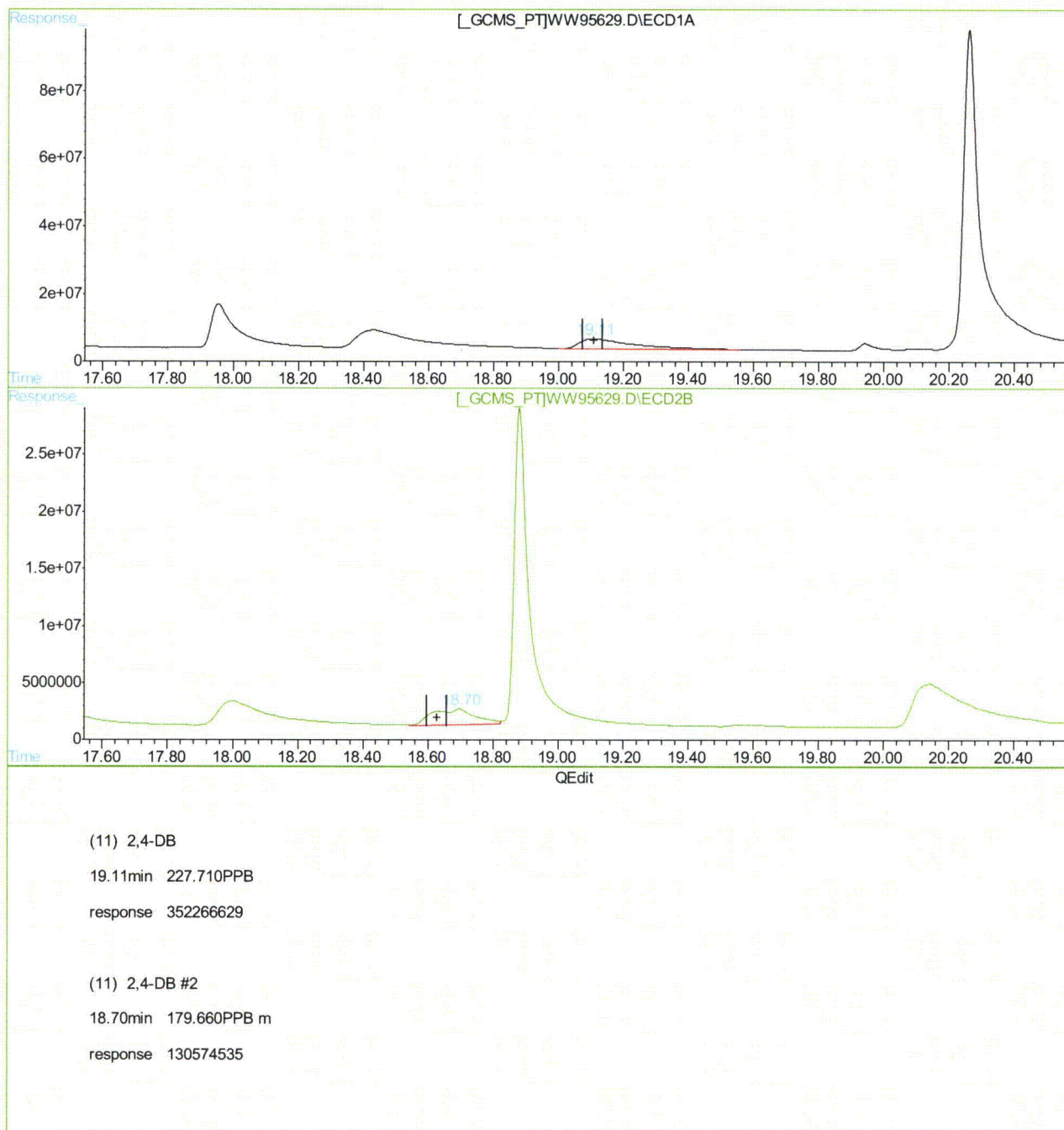
10



## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3346\WW95629.D\ECD1A.CH Vial: 56  
Signal #2 : C:\HPCHEM\1\DATA\GWW3346\WW95629.D\ECD2B.CH  
Acq On : 4 Nov 2010 1:43 pm Operator: toyar  
Sample : cc3143-200 Inst : GCWW  
Misc : OP46441,Gww3346,35.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 4 14:20 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Thu Nov 04 14:20:18 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time  
WW95629.D HWW3143.M Thu Nov 04 14:20:45 2010

GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3348\WW95642.D\ECD1A.CH Vial: 12  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3348\WW95642.D\ECD2B.CH  
 Acq On : 4 Nov 2010 7:41 pm Operator: toyar  
 Sample : cc3143-300 Inst : GCWW  
 Misc : OP46377,Gww3348,35.0,,,2,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 5 8:05 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Fri Nov 05 08:03:58 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	14.64	1453.6E6	545.9E6	661.023	580.821
Spiked Amount	500.000		Recovery	=	132.20%	116.16%

## Target Compounds

1) Dalapon	6.09	5.16	227.1E6	92106736	65.462	56.384
3) Dicamba	15.39	14.88	809.2E6	274.0E6	72.074	62.711
4) MCPP	15.69	15.08	80994456	49733664	15759.398	16312.080
5) MCPA	15.93	15.43	145.7E6	73483552	14935.936	15431.308
6) Dichloroprop	16.48	15.91	868.6E6	336.1E6	268.299	250.683
7) 2,4-D	16.91	16.44	751.1E6	372.4E6	241.183	263.491
8) Pentachloropheno	17.14	16.83	1713.6E6	611.6E6	37.723	35.692
9) 2,4,5-TP	17.95	17.43	1079.7E6	362.5E6	60.441	51.249
10) 2,4,5-T	18.42	17.99	1036.3E6	324.4E6	67.837	54.095
11) 2,4-DB	19.08	18.62	456.0E6	195.6E6	294.746m	269.112
12) Dinoseb	20.26	18.88	6298.1E6	1362.5E6	368.484	276.349 #

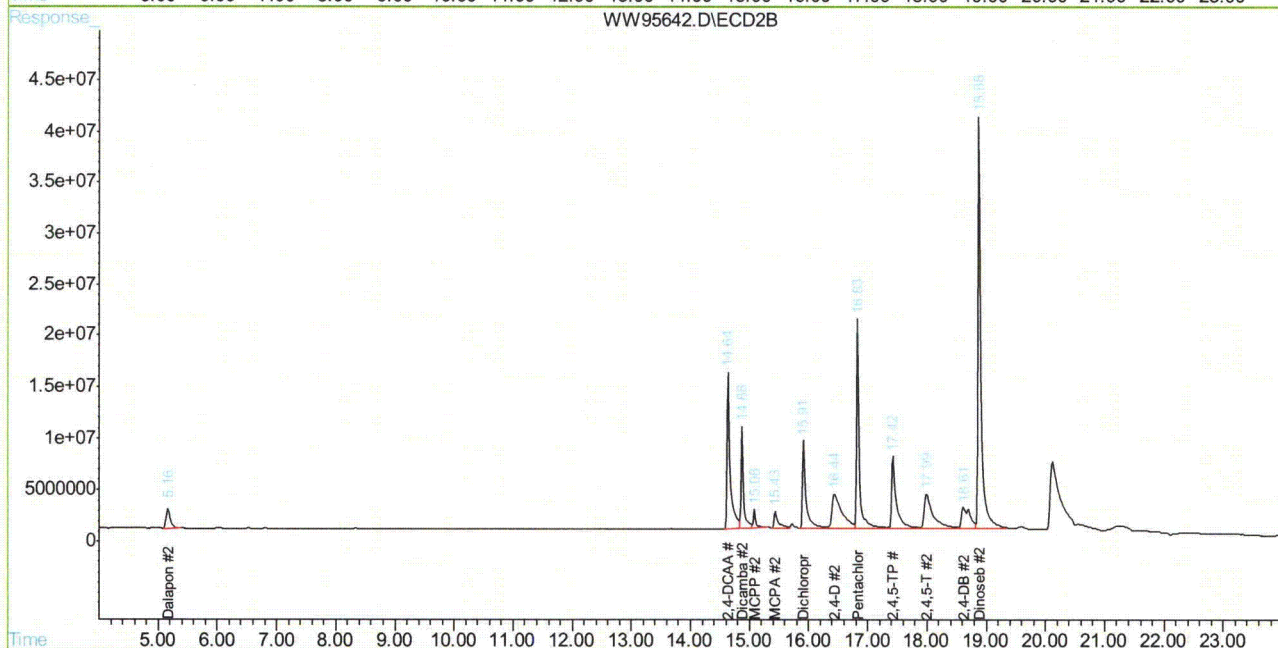
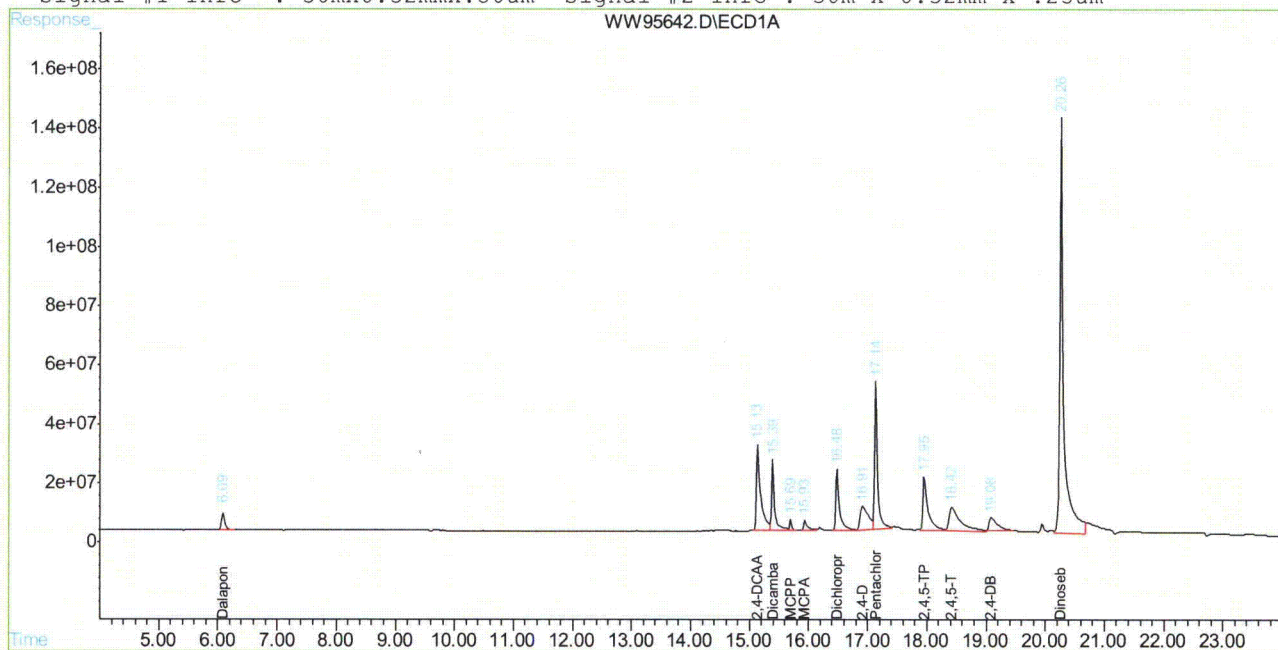
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95642.D HWW3143.M Fri Nov 05 08:05:53 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3348\WW95642.D\ECD1A.CH Vial: 12  
Signal #2 : C:\HPCHEM\1\DATA\GWW3348\WW95642.D\ECD2B.CH  
Acq On : 4 Nov 2010 7:41 pm Operator: toyar  
Sample : cc3143-300 Inst : GCWW  
Misc : OP46377,Gww3348,35.0,,,2,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 5 8:05 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Nov 05 08:03:58 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



WW95642.D HWW3143.M

Fri Nov 05 08:05:54 2010

GCCD

Page 2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** GWW3348-CC3143      **Method:** SW846 8151  
**Lab FileID:** WW95642.D      **Analyst approved:** 11/05/10 09:23 Toya Dagena Raffington  
**Injection Time:** 11/04/10 19:41      **Supervisor approved:** 11/09/10 15:01 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4-DB	94-82-6	1	19.08	Missed peak

10.6.104.1

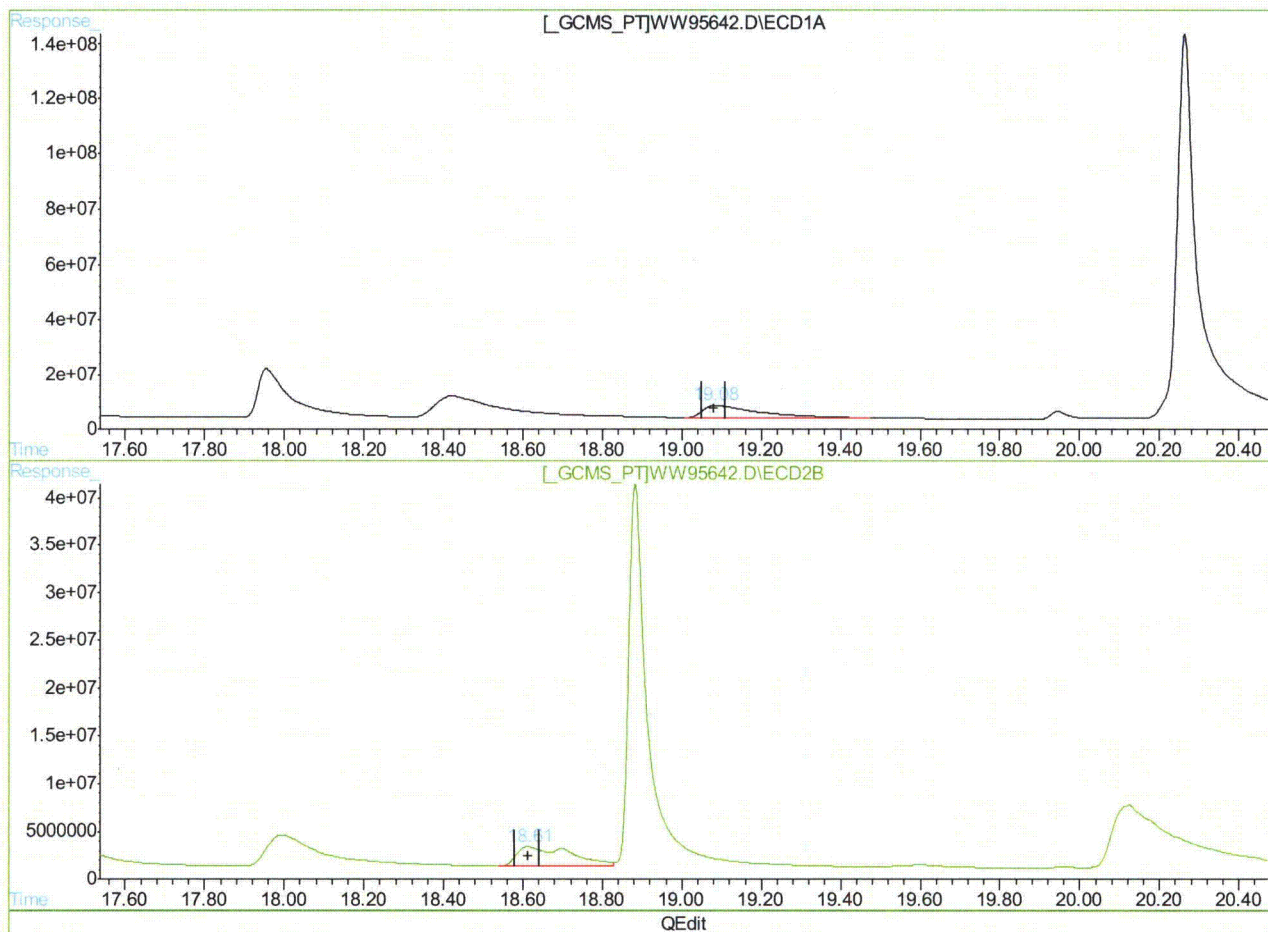
10



## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3348\WW95642.D\ECD1A.CH Vial: 12  
Signal #2 : C:\HPCHEM\1\DATA\GWW3348\WW95642.D\ECD2B.CH  
Acq On : 4 Nov 2010 7:41 pm Operator: toyar  
Sample : cc3143-300 Inst : GCWW  
Misc : OP46377,Gww3348,35.0,,,2,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 5 8:05 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Nov 05 08:03:58 2010  
Response via : Multiple Level Calibration



(11) 2,4-DB

19.08min 294.746PPB m

response 455970450

(11) 2,4-DB #2

18.62min 269.112PPB

response 195587285

(+) = Expected Retention Time

WW95642.D HWW3143.M

Fri Nov 05 08:05:43 2010

GCCD



## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3348\WW95653.D\ECD1A.CH Vial: 23  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3348\WW95653.D\ECD2B.CH  
 Acq On : 5 Nov 2010 1:48 am Operator: toyar  
 Sample : cc3143-200 Inst : GCWW  
 Misc : OP46510,Gww3348,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 5 8:08 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Fri Nov 05 08:07:03 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
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## System Monitoring Compounds

2) S 2,4-DCAA	15.15	14.65	964.8E6	359.4E6	438.751	382.324
Spiked Amount	500.000		Recovery	=	87.75%	76.46%

## Target Compounds

1) Dalapon	6.09	5.17	151.5E6	62979953	43.684	38.553
3) Dicamba	15.40	14.88	549.2E6	184.3E6	48.916	42.174
4) MCPP	15.70	15.09	48502935	34439185	9437.400	11295.664
5) MCPA	15.95	15.44	99473726	53092227	10195.987	11149.196
6) Dichloroprop	16.48	15.92	582.0E6	223.2E6	179.786	166.433
7) 2,4-D	16.93	16.45	497.3E6	242.6E6	159.702	171.641
8) Pentachloropheno	17.14	16.83	1196.8E6	385.6E6	26.346	22.503
9) 2,4,5-TP	17.96	17.43	683.2E6	234.7E6	38.244	33.181
10) 2,4,5-T	18.44	18.01	640.6E6	223.1E6	41.938	37.208
11) 2,4-DB	19.11	18.70f	306.7E6	123.9E6	198.250	170.484m
12) Dinoseb	20.27	18.89	3684.2E6	878.9E6	215.550	178.247

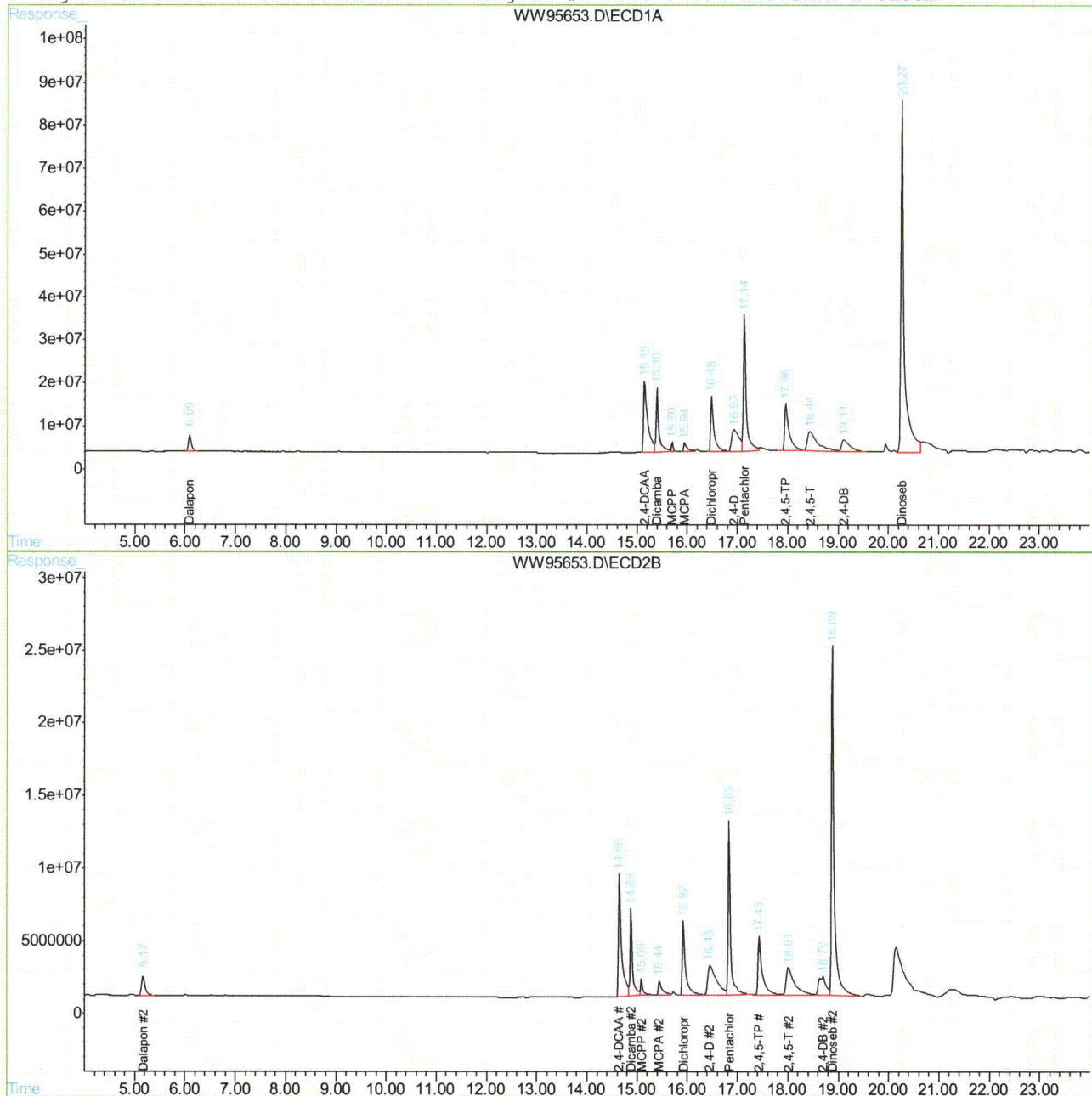
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95653.D HWW3143.M Fri Nov 05 08:08:42 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3348\WW95653.D\ECD1A.CH Vial: 23  
Signal #2 : C:\HPCHEM\1\DATA\GWW3348\WW95653.D\ECD2B.CH  
Acq On : 5 Nov 2010 1:48 am Operator: toyar  
Sample : cc3143-200 Inst : GCWW  
Misc : OP46510,Gww3348,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 5 8:08 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Nov 05 08:07:03 2010  
Response via : Multiple Level Calibration  
DataAcq Meth : HWW3143.M

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



WW95653.D HWW3143.M

Fri Nov 05 08:08:43 2010

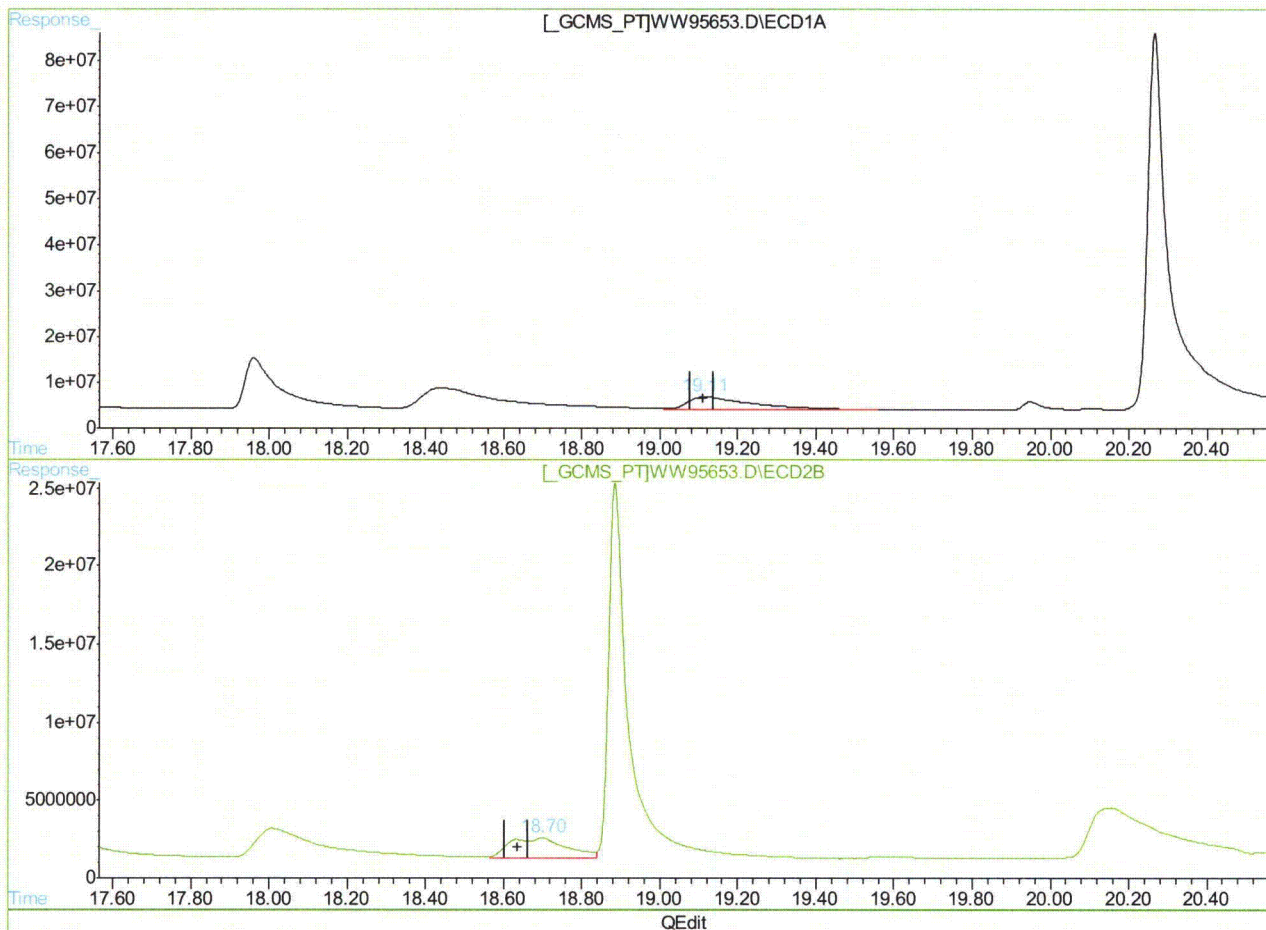
GCCD

Page 2

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3348\WW95653.D\ECD1A.CH Vial: 23  
Signal #2 : C:\HPCHEM\1\DATA\GWW3348\WW95653.D\ECD2B.CH  
Acq On : 5 Nov 2010 1:48 am Operator: toyar  
Sample : cc3143-200 Inst : GCWW  
Misc : OP46510,Gww3348,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 5 8:08 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Fri Nov 05 08:07:03 2010  
Response via : Multiple Level Calibration



(11) 2,4-DB

19.11min 198.250PPB

response 306691456

(11) 2,4-DB #2

18.70min 170.484PPB m

response 123905922

(+) = Expected Retention Time

WW95653.D HWW3143.M

Fri Nov 05 08:08:29 2010

GCCD

Cheng-Hwan Ao  
11/19/10 11:13

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95883.D\ECD1A.CH Vial: 1  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95883.D\ECD2B.CH  
 Acq On : 12 Nov 2010 11:13 am Operator: toyar  
 Sample : CC3143-200 Inst : GCWW  
 Misc : OP46385,Gww3356,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 16 9:55 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Tue Nov 16 09:41:29 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	15.12	14.62	977.4E6	360.6E6	444.494	383.692
Spiked Amount	500.000		Recovery	=	88.90%	76.74%

## Target Compounds

1) Dalapon	6.07	5.16	152.3E6	60175976	43.897	36.837
3) Dicamba	15.37	14.86	530.5E6	176.3E6	47.255	40.347
4) MCPP	15.68	15.07	50314430	37469328	9789.870	12289.516 #
5) MCPA	15.92	15.42	108.8E6	53770272	11152.650	11291.583
6) Dichloroprop	16.46	15.90	592.4E6	224.0E6	182.981	167.072
7) 2,4-D	16.88	16.41	547.4E6	255.0E6	175.777	180.418
8) Pentachloropheno	17.11	16.81	1087.7E6	342.6E6	23.945	19.990
9) 2,4,5-TP	17.93	17.40	667.5E6	232.1E6	37.368m	32.817
10) 2,4,5-T	18.38	17.96	659.7E6	223.7E6	43.185	37.310
11) 2,4-DB	19.05	18.58	280.5E6	144.0E6	181.317	198.079
12) Dinoseb	20.24	18.87	3920.5E6	849.8E6	229.374	172.352

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95883.D HWW3143.M Tue Nov 16 09:55:40 2010 GCCD

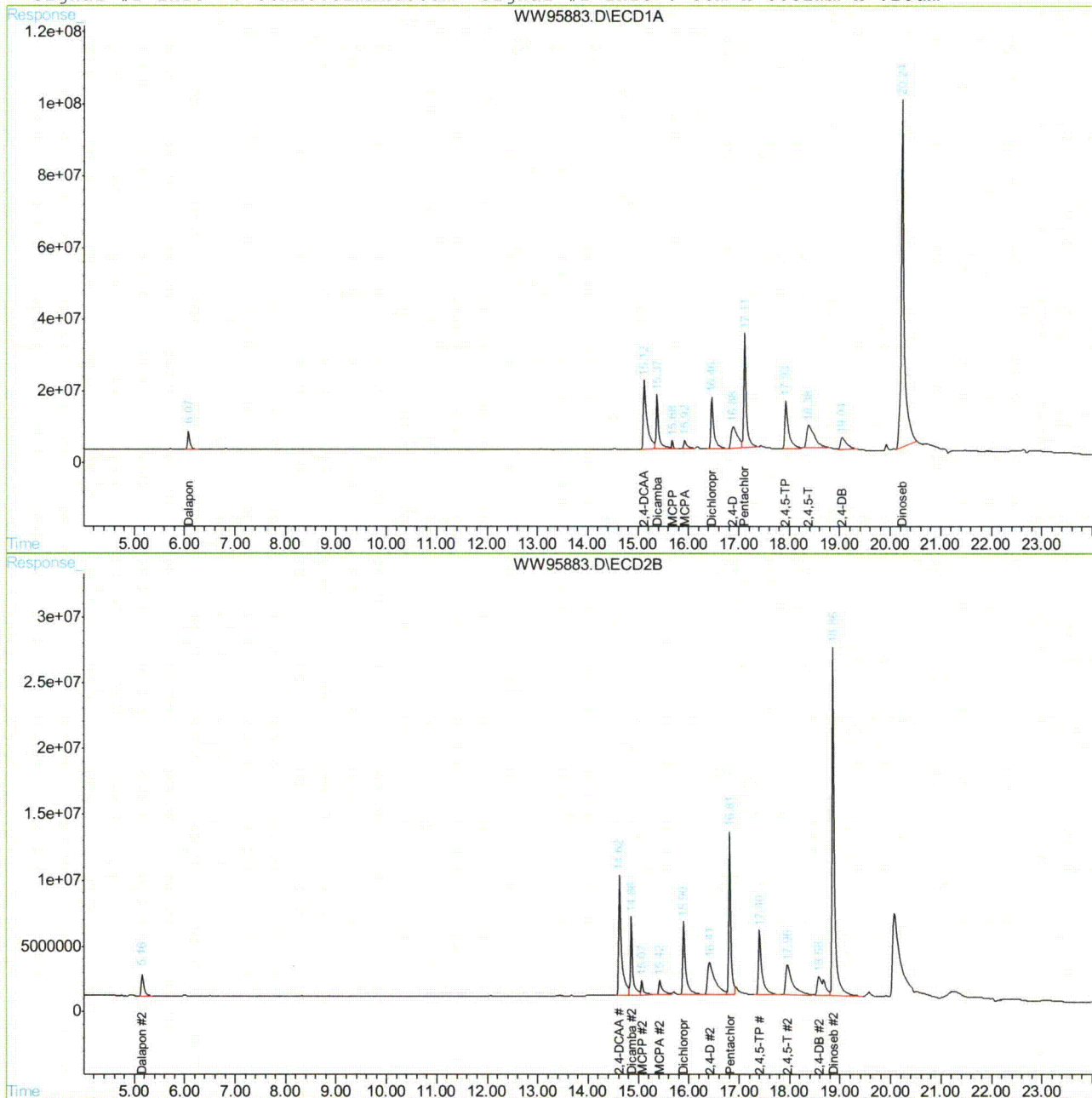


## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95883.D\ECD1A.CH Vial: 1  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95883.D\ECD2B.CH  
Acq On : 12 Nov 2010 11:13 am Operator: toyar  
Sample : CC3143-200 Inst : GCWW  
Misc : OP46385,Gww3356,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 9:55 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:41:29 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



WW95883.D HWW3143.M

Tue Nov 16 09:55:41 2010

GCCD

Page 2



## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** GWW3356-CC3143      **Method:** SW846 8151  
**Lab FileID:** WW95883.D      **Analyst approved:** 11/19/10 10:51 Toya Dagena Raffington  
**Injection Time:** 11/12/10 11:13      **Supervisor approved:** 11/19/10 11:13 Cheng-Hwan Ao

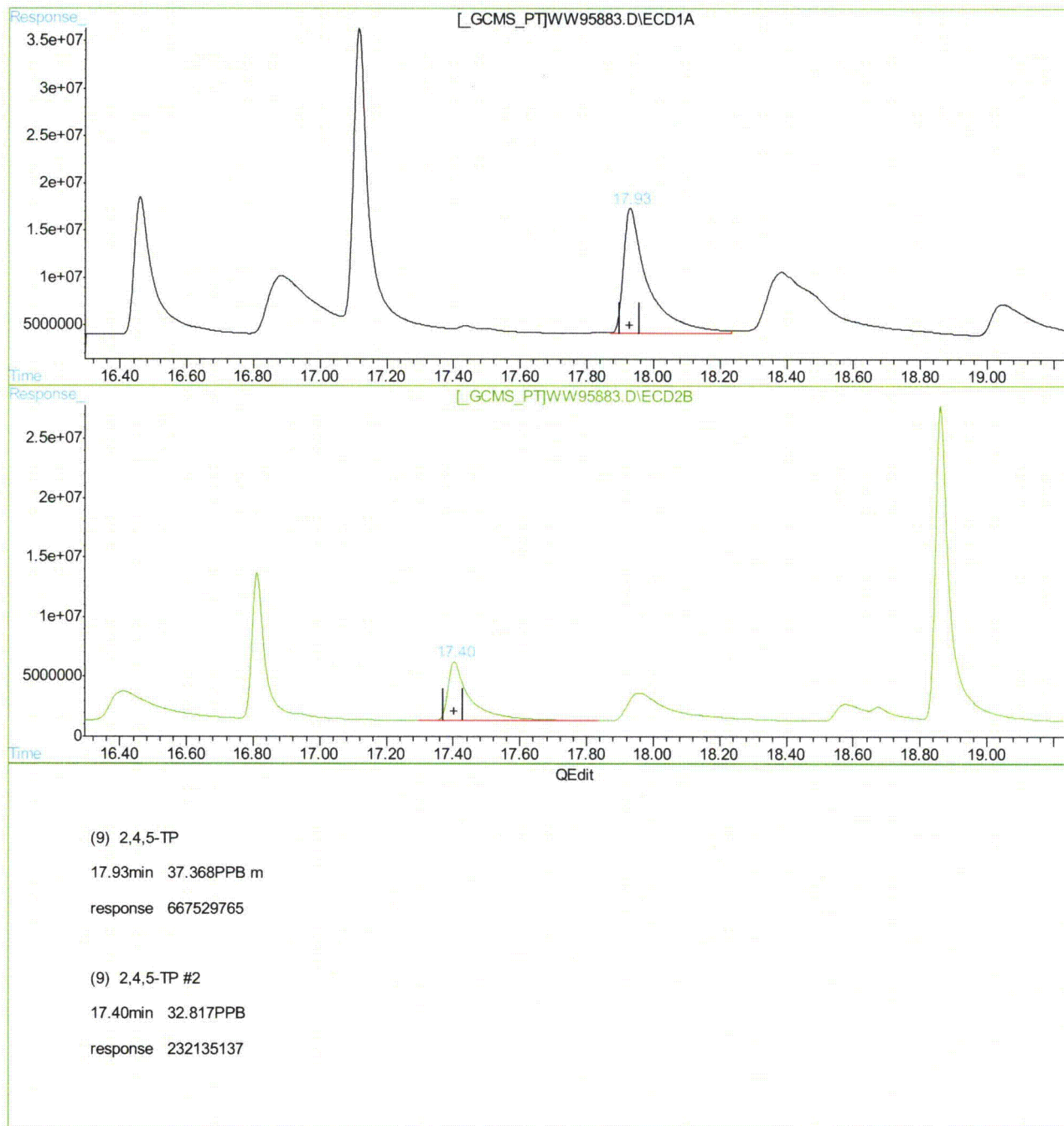
Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4,5-TP (Silvex)	93-72-1	1	17.93	Poorly defined baseline

10.6.106.1  
**10**

## Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95883.D\ECD1A.CH Vial: 1  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95883.D\ECD2B.CH  
Acq On : 12 Nov 2010 11:13 am Operator: toyar  
Sample : CC3143-200 Inst : GCWW  
Misc : OP46385,Gww3356,100,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 9:55 2010 Quant Results File: HWW3143.RES

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:41:29 2010  
Response via : Multiple Level Calibration



(+) = Expected Retention Time  
WW95883.D HWW3143.M Tue Nov 16 09:55:28 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95891.D\ECD1A.CH Vial: 9  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95891.D\ECD2B.CH  
 Acq On : 12 Nov 2010 3:21 pm Operator: toyar  
 Sample : CC3143-300 Inst : GCWW  
 Misc : OP46441,Gww3356,30.2,,,10,5 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Nov 16 9:39 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Tue Nov 16 09:37:17 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	1379.1E6	506.2E6	627.157	538.559
Spiked Amount	500.000		Recovery	=	125.43%	107.71%

## Target Compounds

1) Dalapon	6.07	5.16	217.0E6	83479176	62.570	51.102
3) Dicamba	15.37	14.86	727.7E6	241.3E6	64.816	55.219
4) MCPP	15.68	15.07	73114462	41696632	14226.158	13676.025
5) MCPA	15.92	15.41	147.2E6	71684710	15083.521	15053.557
6) Dichloroprop	16.46	15.90	826.4E6	309.9E6	255.270	231.158
7) 2,4-D	16.88	16.40	808.9E6	343.2E6	259.742	242.840
8) Pentachloropheno	17.12	16.81	1617.8E6	491.9E6	35.614	28.703
9) 2,4,5-TP	17.93	17.40	950.2E6	325.8E6	53.190	46.059
10) 2,4,5-T	18.38	17.96	885.7E6	316.0E6	57.979	52.703
11) 2,4-DB	19.05	18.59	401.6E6	192.1E6	259.583	264.324
12) Dinoseb	20.24	18.87	5574.3E6	1193.4E6	326.135	242.040 #

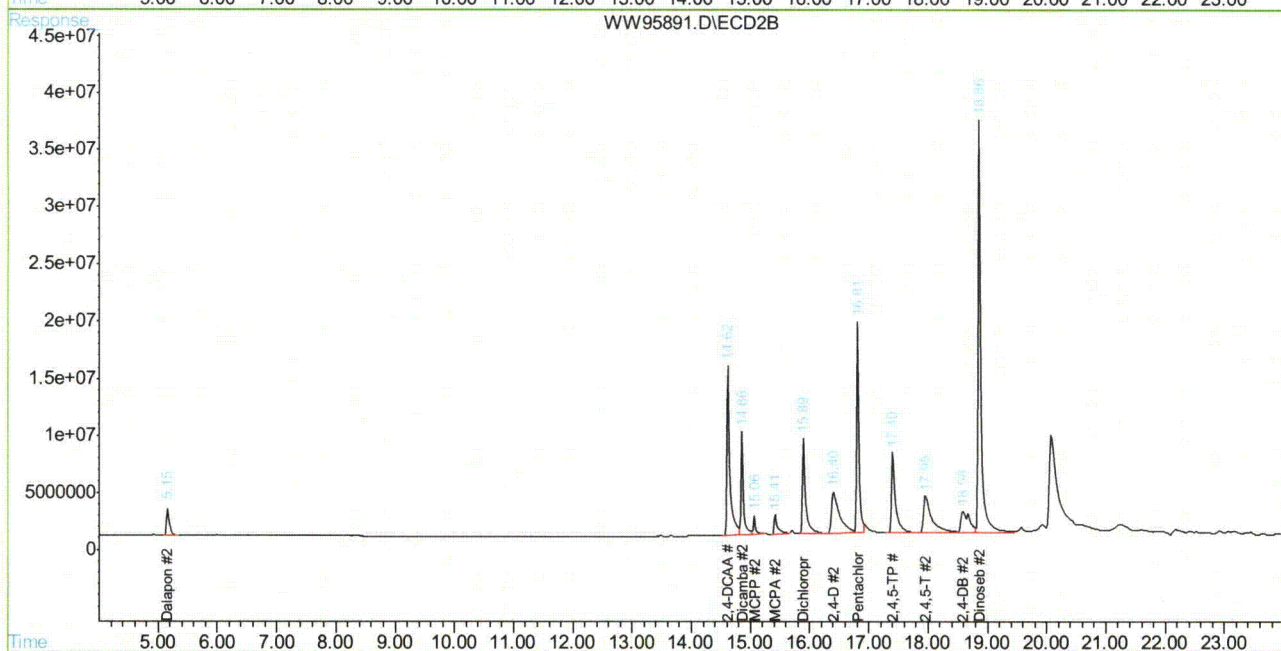
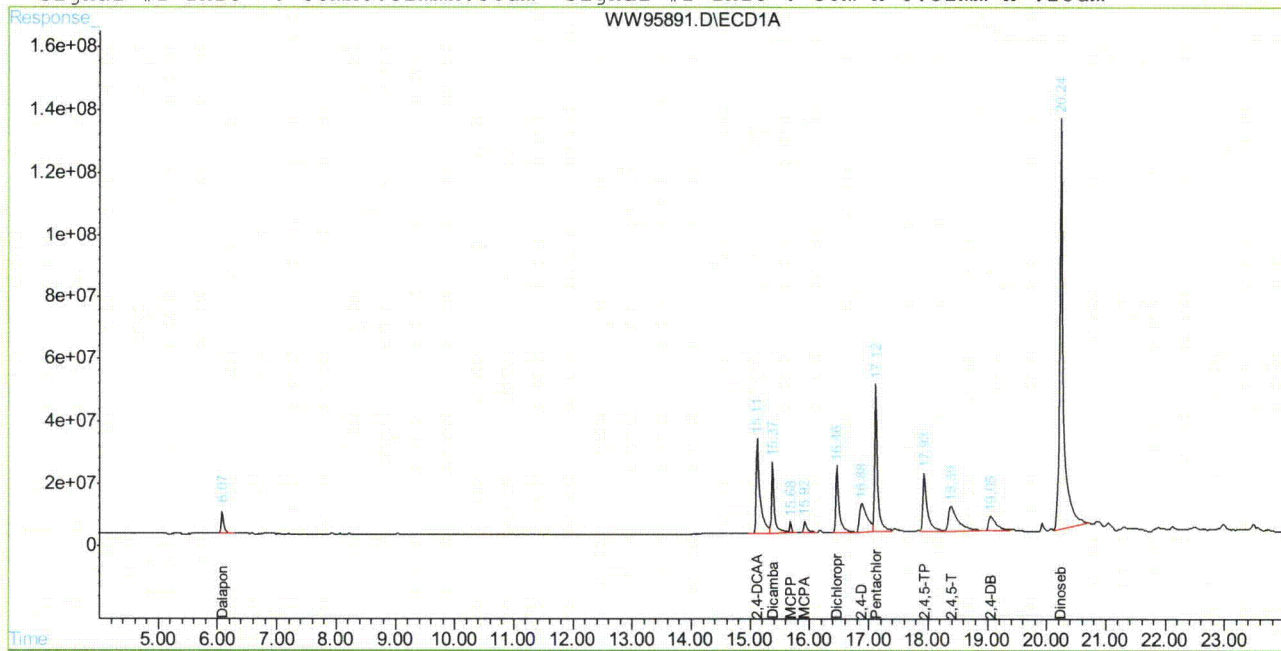
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 WW95891.D HWW3143.M Tue Nov 16 09:40:20 2010 GCCD

## Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GWW3356\WW95891.D\ECD1A.CH Vial: 9  
Signal #2 : C:\HPCHEM\1\DATA\GWW3356\WW95891.D\ECD2B.CH  
Acq On : 12 Nov 2010 3:21 pm Operator: toyar  
Sample : CC3143-300 Inst : GCWW  
Misc : OP46441,Gww3356,30.2,,,10,5 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Nov 16 9:39 2010 Quant Results File: HWW3143.RES

Quant Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
Title : HERB  
Last Update : Tue Nov 16 09:37:17 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



WW95891.D HWW3143.M

Tue Nov 16 09:40:21 2010

GCCD

Page 2

**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: C162096Date: 9/21/10Analyst Signature: On Miller

## Standard Data

Lot #	Description	Conc.
10-441-05	Toxaphene	50ppb
-46	Chlordane	↓
-546-6	DEA	50-100ppb
-20	PCBIX	20ppb
-441-04	Pest mix 2nd	25ppb
-546-10	Toxaphene 2nd	50ppb
-17	Chlordane 2nd	↓

## Standard Data

Lot #	Description	Conc.
10-441-01A	Pest mix	100ppb
-1376		50
-546-32A		35
-137A		6
-441-01B		5
-715		2
-816		1

Columns: 27X40518X405Method: 8081Initial Cal. Method: 10512046Injection Volume: 1.0L

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: On MillerDate: 9/24/10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	16 56257	00r <del>EC2096-25</del> 9/21/10				1			/	OK	
	958	5B				2			/	OK	
	959	EC2096-1	Pest mix			3			/	OK	
	960	-2				4			/	OK	
	961	-5				5			/	OK	
	962	-10				6			/	OK	
	963	-25				7			/	OK	
	964	-50				8			/	OK	
	965	-100				9			/	OK	
	966	EC2096-500	Toxaphene			10			/	OK	
	967	-500	Chlordane			11			/	OK	
	968	EC2096-25	Pest mix			12			/	OK	
	969	-25 F				13			/	OK	
	970	-500				14			/	OK	
	971	-500				15			/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR016-05

Rev. Date: 10/20/04



# RETENTION TIME WINDOW DETERMINATION

Page 1 of 2

Instrument ID: GC1G  
Method: SW846 8081A

Std#	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	1G56963.D	09/21/10 18:53	G1G2096-ICC2096	OWENM
Std#2	1G57012.D	09/22/10 19:12	G1G2098-CC2096	OWENM
Std#3	1G57069.D	09/23/10 22:13	G1G2099-ECC2096	OWENM

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+/- 3*StdDev)
Tetrachloro-m-xylene	1	SURR	1.98	1.98	1.98	1.98	0.000	+/- 0.030 <sup>a</sup>
Decachlorobiphenyl	1	SURR	8.68	8.68	8.69	8.68	0.006	+/- 0.030 <sup>a</sup>
Tetrachloro-m-xylene	2	SURR	2.32	2.32	2.32	2.32	0.000	+/- 0.030 <sup>a</sup>
Decachlorobiphenyl	2	SURR	10.33	10.33	10.32	10.33	0.006	+/- 0.030 <sup>a</sup>
Hexachlorobenzene	1	REG	2.22	2.22	2.23	2.22	0.006	+/- 0.030 <sup>a</sup>
alpha-BHC	1	REG	2.33	2.33	2.34	2.33	0.006	+/- 0.030 <sup>a</sup>
gamma-BHC (Lindane)	1	REG	2.56	2.57	2.57	2.57	0.006	+/- 0.030 <sup>a</sup>
beta-BHC	1	REG	2.62	2.63	2.63	2.63	0.006	+/- 0.030 <sup>a</sup>
delta-BHC	1	REG	2.78	2.78	2.79	2.78	0.006	+/- 0.030 <sup>a</sup>
Heptachlor	1	REG	2.96	2.96	2.97	2.96	0.006	+/- 0.030 <sup>a</sup>
Aldrin	1	REG	3.25	3.25	3.26	3.25	0.006	+/- 0.030 <sup>a</sup>
Heptachlor epoxide	1	REG	3.88	3.88	3.89	3.88	0.006	+/- 0.030 <sup>a</sup>
gamma-Chlordane	1	REG	4.02	4.02	4.03	4.02	0.006	+/- 0.030 <sup>a</sup>
alpha-Chlordane	1	REG	4.17	4.17	4.19	4.18	0.012	+/- 0.035
4,4'-DDE	1	REG	4.27	4.27	4.28	4.27	0.006	+/- 0.030 <sup>a</sup>
Endosulfan-I	1	REG	4.34	4.34	4.35	4.34	0.006	+/- 0.030 <sup>a</sup>
Dieldrin	1	REG	4.64	4.64	4.65	4.64	0.006	+/- 0.030 <sup>a</sup>
Endrin	1	REG	4.94	4.94	4.95	4.94	0.006	+/- 0.030 <sup>a</sup>
4,4'-DDD	1	REG	5.05	5.05	5.06	5.05	0.006	+/- 0.030 <sup>a</sup>
Endosulfan-II	1	REG	5.24	5.24	5.25	5.24	0.006	+/- 0.030 <sup>a</sup>
4,4'-DDT	1	REG	5.44	5.44	5.45	5.44	0.006	+/- 0.030 <sup>a</sup>
Endrin aldehyde	1	REG	5.84	5.84	5.85	5.84	0.006	+/- 0.030 <sup>a</sup>
Methoxychlor	1	REG	6.20	6.19	6.21	6.20	0.010	+/- 0.030
Mirex	1	REG	6.32	6.32	6.33	6.32	0.006	+/- 0.030 <sup>a</sup>
Endosulfan sulfate	1	REG	6.50	6.50	6.51	6.50	0.006	+/- 0.030 <sup>a</sup>
Endrin ketone	1	REG	6.93	6.93	6.94	6.93	0.006	+/- 0.030 <sup>a</sup>
Hexachlorobenzene	2	REG	2.70	2.70	2.70	2.70	0.000	+/- 0.030 <sup>a</sup>
alpha-BHC	2	REG	2.81	2.80	2.80	2.80	0.006	+/- 0.030 <sup>a</sup>
gamma-BHC (Lindane)	2	REG	3.14	3.14	3.14	3.14	0.000	+/- 0.030 <sup>a</sup>
beta-BHC	2	REG	3.21	3.21	3.21	3.21	0.000	+/- 0.030 <sup>a</sup>
delta-BHC	2	REG	3.53	3.53	3.53	3.53	0.000	+/- 0.030 <sup>a</sup>
Heptachlor	2	REG	3.63	3.63	3.63	3.63	0.000	+/- 0.030 <sup>a</sup>
Aldrin	2	REG	4.02	4.01	4.01	4.01	0.006	+/- 0.030 <sup>a</sup>
Heptachlor epoxide	2	REG	4.73	4.73	4.73	4.73	0.000	+/- 0.030 <sup>a</sup>
gamma-Chlordane	2	REG	4.99	4.99	4.99	4.99	0.000	+/- 0.030 <sup>a</sup>
alpha-Chlordane	2	REG	5.19	5.19	5.19	5.19	0.000	+/- 0.030 <sup>a</sup>
Endosulfan-I	2	REG	5.28	5.27	5.27	5.27	0.006	+/- 0.030 <sup>a</sup>
4,4'-DDE	2	REG	5.44	5.43	5.43	5.43	0.006	+/- 0.030 <sup>a</sup>
Dieldrin	2	REG	5.67	5.67	5.67	5.67	0.000	+/- 0.030 <sup>a</sup>
Endrin	2	REG	6.13	6.12	6.12	6.12	0.006	+/- 0.030 <sup>a</sup>
4,4'-DDD	2	REG	6.32	6.31	6.31	6.31	0.006	+/- 0.030 <sup>a</sup>

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# RETENTION TIME WINDOW DETERMINATION

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Instrument ID: GC1G  
Method: SW846 8081A

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	1G56963.D	09/21/10 18:53	G1G2096-ICC2096	OWENM
Std#2	1G57012.D	09/22/10 19:12	G1G2098-CC2096	OWENM
Std#3	1G57069.D	09/23/10 22:13	G1G2099-ECC2096	OWENM

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+/- 3*StdDev)
Endosulfan-II	2	REG	6.46	6.45	6.45	6.45	0.006	+/- 0.030 <sup>a</sup>
4,4'-DDT	2	REG	6.82	6.82	6.82	6.82	0.000	+/- 0.030 <sup>a</sup>
Endrin aldehyde	2	REG	6.99	6.99	6.99	6.99	0.000	+/- 0.030 <sup>a</sup>
Endosulfan sulfate	2	REG	7.45	7.45	7.45	7.45	0.000	+/- 0.030 <sup>a</sup>
Methoxychlor	2	REG	7.99	7.99	7.99	7.99	0.000	+/- 0.030 <sup>a</sup>
Mirex	2	REG	8.28	8.28	8.28	8.28	0.000	+/- 0.030 <sup>a</sup>
Endrin ketone	2	REG	8.34	8.34	8.34	8.34	0.000	+/- 0.030 <sup>a</sup>

(a) Default minimum StdDev of .01 minutes employed.

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Batch ID: G162122

 Date: 10/26/10

 Analyst Signature: On Miller

## Standard Data

## Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
10-246-MSD	Pro Max	100µg
148	↓	75µg
143	16m	100µg
137	PEB 1K	70µg

 Columns: RTXCLP3/RTXCLP3

 Method 9081

 Initial Cal. Method 1857096

 Injection Volume: 1µL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

 Supervisor Signature: On Miller

 Date: 10/27/10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS	Dilution	IS	SU	Status (Data)	Comments
	1658143	CC2096-10				1	1			OK	
	144	POR				2	1			OK	
	145	FB				3	1			OK	
	146	JA59651-3	46202-1	FOR 1		4				OK	
	147	-4				5				OK	
	148	-6				6				OK	
	149	-5				7				OK	
	150	JA59664-1				8				OK	
	151	JA59647-3				9				OK	
	152	-4				10				OK	
	153	-7				11				OK	
	154	CC2096-25				12				OK	
	155	0146390-100	46202-2	FLD		13				OK	
	156	-B31				14				OK	
	157	JA59171-1				15				OK	
	158	-2				16				OK	
	159	JA59103-1	46345-1	FLD		17				OK	
	160	JA59560-1	46336-1	FOR 1		18				OK	
	161	-2				19				OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR016-05

Rev. Date: 10/20/04

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Batch ID: 6162122

Date: 6/26/10

Analyst Signature: [Signature]

### Standard Data

### Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
11-34-41A	PEST MIX	16ppb
-450	CL	75ppb
-43	PEM	100ppb
-37	POA/IL	20ppb

Columns: RTX/IL/PEM/CL

Method 9091

Initial Cal. Method 19552096

Injection Volume: 1ul

Date Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 6/27/10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	1658163	JA58560-3	46336-1	8091	✓	30				OK	Reactive 10A
	163	CC2096-10				21			/	OK	
	164	005				22			/	OK	
	165	IB				23			/	OK	
	166	0146236-MB1	46336-1	9091	✓	24			/	OK	
	167	-BS1				25			/	OK	
	168	JA58506-1	46340-1	TCLP	✓	26			/	OK	
		0146262-MB1	46340-1	8091	✓				/	OK	
	169	0146340-L020				27			/	OK	
		-BS1							/	OK	
	170	0146345-L021	46345-1	TCLP	✓	28			/	OK	
	171	0146260-MB1	46260-1	8091	✓	29			/	OK	
	172	-BS1				30			/	OK	
	173	JA58465-2				31			/	OK	
	174	CC2096-25				32			/	OK	
	175	IB				33			/	OK	
	176	0146260-MB1	46260-1	8091	✓	34			/	OK	
	177	-MB1				35			/	OK	
	178	JA58400-5				36			/	OK	
	179	-6				37			/	OK	
	180	JA58560-2	46336-1	8091	✓	38			/	OK	Attn: 10A cleanup

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR016-05

Rev Date: 10/20/04

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Date: 10/26/10

 Analyst Signature: Ch M. L. B.

## Standard Data

## Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
SV 10-246-45A	Pest mix	10 µg
-45B	↓	25 µg
-37	Pest mix	20 µg

 Columns: RTXCLP2/RTXCLP2

 Method: 8081

 Initial Cal. Method: 1252296

 Injection Volume: 1 µL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

 Supervisor Signature: Ch M. L. B.

 Date: 10/27/10

R	Data File	Sample ID	Ext. Batch	Test	MALS T X	Dilution	IS	SU	Status (Data)	Comments
	1658181	JA58560-3	46336-1	8081	3	34		/	OK	After TAP
	182	CC2096-10				40		/	OK	not methoxy low back
	183	IB				41		/	OK	
	184	JA58461-1A	46705-1	8081	5	42			not methoxy	no ECC
	185	-7A				43				
	186	-5A				44				
	187	-7A				45				
	188	-9A				46				
	189	-4A				47				
	190	-13A				48				
	191	-15A				49				
	192	-17A				50				
	193	CC2096-25				51				
	194	IB				52				not methoxy low back
						53				
						54				
						55				
						56				
						57				
						58				
						59				
						60				

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

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Batch ID: G361826

**Date:** 9/24/10

Analyst Signature: [Signature]

## Standard Data

Lot #	Description	Conc.
5410-316AD	FL101612120	300ppb
AC		200
32B		1000
32A		800
A13		250
19A		50
5410-441-129	1CV	1000

## Standard Data

Lot #	Description	Conc.
S110-S10-15	A17221	1000 ppb
S110-49 1-121	1232	1
	122	1242
	123	1248
	124	1254
	125	1262
	126	1268

Columns: RT/CP/RT/CP/

Method 2082

Initial Cal. Method *PCB1826*

Injection Volume: 1.0 mL

**Date Archived:**

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

**Supervisor Signature:**

Date: 9/28/00

[illegible]

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate . . .

**Sample volume/weight refer to extraction log.**

**All strikeouts must be initialed, dated and reason code applied as follows:**

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst 's correction error

Form: OR016-05

**Rev. Date: 10/20/04**

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# RETENTION TIME WINDOW DETERMINATION

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Instrument ID: GC3G  
Method: SW846 8082

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	3G49429.D	09/24/10 20:24	G3G1826-ICC1826	TOYAR
Std#2	3G49446.D	09/27/10 12:00	G3G1828-CC1826	OWENM
Std#3	3G49468.D	09/27/10 20:09	G3G1828-CC1826	OWENM

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+/- 3*StdDev)
Tetrachloro-m-xylene	1	SURR	2.32	2.32	2.32	2.32	0.000	+/- 0.030 <sup>a</sup>
Decachlorobiphenyl	1	SURR	9.05	9.05	9.05	9.05	0.000	+/- 0.030 <sup>a</sup>
Tetrachloro-m-xylene	2	SURR	2.18	2.18	2.19	2.18	0.006	+/- 0.030 <sup>a</sup>
Decachlorobiphenyl	2	SURR	9.29	9.28	9.28	9.28	0.006	+/- 0.030 <sup>a</sup>
AR1016-A	1	REG	2.68	2.68	2.68	2.68	0.000	+/- 0.030 <sup>a</sup>
AR1016-B	1	REG	3.05	3.05	3.05	3.05	0.000	+/- 0.030 <sup>a</sup>
AR1016-C	1	REG	3.58	3.58	3.58	3.58	0.000	+/- 0.030 <sup>a</sup>
AR1016-D	1	REG	3.73	3.73	3.74	3.73	0.006	+/- 0.030 <sup>a</sup>
AR1016-E	1	REG	4.20	4.20	4.21	4.20	0.006	+/- 0.030 <sup>a</sup>
AR1260-A	1	REG	6.06	6.06	6.06	6.06	0.000	+/- 0.030 <sup>a</sup>
AR1260-B	1	REG	6.41	6.41	6.41	6.41	0.000	+/- 0.030 <sup>a</sup>
AR1260-C	1	REG	6.87	6.87	6.87	6.87	0.000	+/- 0.030 <sup>a</sup>
AR1260-D	1	REG	7.27	7.27	7.27	7.27	0.000	+/- 0.030 <sup>a</sup>
AR1260-E	1	REG	7.63	7.63	7.64	7.63	0.006	+/- 0.030 <sup>a</sup>
AR1016-A	2	REG	2.64	2.63	2.64	2.64	0.006	+/- 0.030 <sup>a</sup>
AR1016-B	2	REG	3.05	3.05	3.05	3.05	0.000	+/- 0.030 <sup>a</sup>
AR1016-C	2	REG	3.56	3.55	3.56	3.56	0.006	+/- 0.030 <sup>a</sup>
AR1016-D	2	REG	3.70	3.70	3.71	3.70	0.006	+/- 0.030 <sup>a</sup>
AR1016-E	2	REG	4.24	4.24	4.24	4.24	0.000	+/- 0.030 <sup>a</sup>
AR1260-A	2	REG	6.07	6.06	6.06	6.06	0.006	+/- 0.030 <sup>a</sup>
AR1260-B	2	REG	6.50	6.50	6.50	6.50	0.000	+/- 0.030 <sup>a</sup>
AR1260-C	2	REG	6.99	6.99	6.99	6.99	0.000	+/- 0.030 <sup>a</sup>
AR1260-D	2	REG	7.33	7.33	7.33	7.33	0.000	+/- 0.030 <sup>a</sup>
AR1260-E	2	REG	7.79	7.78	7.78	7.78	0.006	+/- 0.030 <sup>a</sup>

(a) Default minimum StdDev of .01 minutes employed.

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G3G1847Date: 10/20/10Analyst Signature: J Raff

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
510-916-48	Arp16/1260	1000ug
44A		550
37	15	20

Columns: RTXCCP1/RTXCCP1Method 8082Initial Cal. Method PCB1826Injection Volume: 1.0ulDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Don M. (un) BDate: 10/20/10

R	Data File	Sample ID	Ext. Batch	Test	MALSTX #	Dilution	IS	SU	Status (Data)	Comments
	3650132	CC1826-1500			W 1	1			OK	
	SD133	op46240-mb1	46240-1	8082	S 2	1			OK	
	SD134	bs1			3	1			OK	
	SD135	JA59103-1		PCB	4	1			OK	
	SD136	2			5	1			OK	
	SD137	op46240-ms		PCB1	6	1			OK	
	SD138	ms0			7	1			OK	
	SD139	JA58684-1			8	1			OK	
	SD140	2			9	1			OK	
	SD141	JA59086-1FB	46259-1		W 10	1			OK	
	SD142	JA59174-7HB			11	1			OK	
	SD143	CC1826-SD0			12	1			OK	
	SD144	1801			13	1			OK	
	SD145	op46259-mb1			14	1			OK	
	SD146	bs1			15	1			OK	
	SD147	JA58684-4	46240-1		S 16	1			OK	
	SD148	2104			17	1			OK	
	SD149	op46248-mb1	46248-1		18	1			OK	
	SD150	JA58515-1R			19	1			OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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Form: OR016-05

Rev Date: 10/20/04

**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G3G18417Date: 11/20/10Analyst Signature: J Raff

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
510344B	Ar 100/1200	100ppb
44A		20
37	13	20
32E20	Hexane (Baker)	

Columns: RTX-CP1/RTX-CP1Method 8082Initial Cal. Method NCB1826Injection Volume: 10ulDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Don MillerDate: 10/11/10

R	Data File	Sample ID	Ext. Batch	Test	MALS T X	Dilution	IS	SU	Status (Data)	Comments
	3650151	JA58515-2R	462481	8082	5	20	1		OK	
	50152	JA59102-1		NCB11	24	1			OK	
	50153	2			22	1			OK	
	50154	CC1826-15200			23	1			OK	
	50155	1802			24	1			OK	
	50156	JA59151-10			25	1			OK	ASE
	50157	9			26	1			OK	
	50158	8			27	1			OK	
	50159	7			28	1			OK	
	50160	6			29	1			OK	
	50161	5			30	1			OK	
	50162	3			31	1			OK	RR1:10
	50163	4			32	1		CCB11	OK	221:50
	50164	2			33	1		CCB11	OK	221:100
	50165	CC1826-500			34	1			OK	
	50166	1803			35	1			OK	
	50167	Op460248ms			36	1		CCB11	OK	
	50168	MSD			37	1			OK	
R	50169	JA59151-3			38	10			RR	completes

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR016-05

Rev. Date: 10/20/04

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Batch ID: 6361847

Date: 10/20/10

**Analyst Signature:**

## Standard Data

[illegible]

## Standard Data

Lot #	Description	Conc.
500-516418	7/10/16/1260	100 ppb
137	1B	201
532 E20	Hexamethylenetriamine (Baker)	

Columns: RTX C<sub>18</sub>/RTX C<sub>18</sub> II

Method 8082

Initial Cal. Method *PCB 1826*

Injection Volume: 1.0 ml

**Date Archived:**

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

**Supervisor Signature:**

Date: 6/24/10

[illegible]

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

**Sample volume/weight refer to extraction log.**

**All strikeouts must be initialed, dated and reason code applied as follows:**

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst 's correction error

Form: OR016-05

Rev Date: 10/20/04

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: 6361848Date: 10/21/10Analyst Signature: [Signature]

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
51028644	Ar 10/16/1200	50000
418	1	120
37	13	20
132E20	Hexamethoxyl	

Columns: RTXcep1/RTXcep1Method: 8082Initial Cal. Method: PCB1826Injection Volume: 1.00Date Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 10/22/10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	3650176	CCT826-SD			W	1	1			OK	
	50177	1301				2	1			OK	
R	50178	JA5957-3	462481	8082	S	3	10			OK	
	50179	JA59242-1FB	42259-1	PCB	W	4	1			OK	
	50180	JA59181-11				5	1			OK	
	50181	JA58892-11		PCB11		6	1			OK	
	50182	12				7	1			OK	
	50183	13				8	1			OK	
	50184	14				9	1			OK	
	50185	JA59242-3	46269.1	8082	S	10	1			OK	
	50186	DP46269-mb1				11	1			OK	
	50187	CC1826-1000			W	12	1			OK	Ar 1260-E + 2nd
	50188	DP46276-mb1	46276-1			13	1			OK	
	50189	601				14	1			OK	
	50190	JA59329-1			L	15	1			OK	
R	50191	JA59242-3	46269-1		S	16	2			OK	
	50192	DP46259-MS	46259-1		W	18	1			OK	
	50193	MSD				18	1			OK	
	50194	JA59086-1				19	1			OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G3G1848Date: 10/21/10Analyst Signature: J. Raff

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
8110-916-91A	41016/1260	500 mg
41B	1	1000
37	1B	20

Columns: PCXCP/PCXCP/1Method: 8082Initial Cal. Method: PCB 1826Injection Volume: 1.000Date Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 10/22/10

R	Data File	Sample ID	Ext. Batch	Test	MALS T X	Dilution	IS	SU	Status (Data)	Comments
	3650195	JA59180-1	46270-1	8082	1	20	1		✓ OK	
	50196	2				21	1		✓ OK	
	50197	CC1826-500				22	1		✓ OK	Ar1260-A,C,E & 1st
	50198	1B02				23	1		✓ OK	
	50199	OP46272-mb1	46272-1		5	24	1		✓ OK	
	50200	b51				25	1		✓ OK	
	50201	MS				26	1		✓ OK	
	50202	MSD				27	1		✓ OK	
	50203	JA55139-7A				28	1		✓ OK	
	50204	17A				29	1		✓ OK	
	50205	JA59086-2	46259-1			30	1		✓ OK	
	50206	4				31	1		✓ OK	
	50207	JA58965-2				32	1		✓ OK	
	50208	CC1826-1000				33	1		✓ OK	
	50209	1B03				34	1		✓ OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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Rev. Date: 10/20/04

Batch ID: G361849

ate: 10/22/10

**Analyst Signature:**

## Standard Data

## Standard Data

[illegible]

Lot #	Description	Conc.
510-510-44A	4/10/1700	500ppb
4B3		1200
4B1	1B	20

**Columns:**

## Method

### Initial Cal. Method

**Injection Volume:**

**Date Archived:**

annually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

**Supervisor Signature:**

Date: 10/25/10

[illegible]

C = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

**strikeouts must be initialed, dated and reason code applied as follows:**

reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst 's correction error

n: OR016-05


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Batch ID: C4619

Analyst Signature: Ben Miller

## Standard Data

Lot #	Description	Conc.
6-991-91A	Test Mix	W0
-956-452		50
-458		75
-459		W
-441-81E		5
-77E		7
-776		1

**Date Archived:**

Date: 10/23/10

**10** 10.7.7

Form: OR016-05

# RETENTION TIME WINDOW DETERMINATION

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Instrument ID: GC4G  
Method: SW846 8081A

Std#	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	4G596.D	10/21/10 17:20	G4G19-ICC19	OWENM
Std#2	4G615.D	10/21/10 21:48	G4G20-CC19	OWENM
Std#3	4G622.D	10/22/10 09:51	G4G21-CC19	OWENM

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+/- 3*StdDev)
Tetrachloro-m-xylene	1	SURR	1.99	1.99	1.99	1.99	0.000	+/- 0.030 <sup>a</sup>
Decachlorobiphenyl	1	SURR	8.74	8.74	8.76	8.75	0.012	+/- 0.035
Tetrachloro-m-xylene	2	SURR	2.35	2.35	2.34	2.35	0.006	+/- 0.030 <sup>a</sup>
Decachlorobiphenyl	2	SURR	10.42	10.42	10.42	10.42	0.000	+/- 0.030 <sup>a</sup>
Hexachlorobenzene	1	REG	2.24	2.25	2.25	2.25	0.006	+/- 0.030 <sup>a</sup>
alpha-BHC	1	REG	2.35	2.36	2.37	2.36	0.010	+/- 0.030
gamma-BHC (Lindane)	1	REG	2.59	2.60	2.61	2.60	0.010	+/- 0.030
beta-BHC	1	REG	2.65	2.66	2.67	2.66	0.010	+/- 0.030
delta-BHC	1	REG	2.81	2.81	2.82	2.81	0.006	+/- 0.030 <sup>a</sup>
Heptachlor	1	REG	3.00	3.00	3.02	3.01	0.012	+/- 0.035
Aldrin	1	REG	3.29	3.29	3.30	3.29	0.006	+/- 0.030 <sup>a</sup>
Heptachlor epoxide	1	REG	3.92	3.93	3.95	3.93	0.015	+/- 0.046
gamma-Chlordane	1	REG	4.07	4.07	4.09	4.08	0.012	+/- 0.035
alpha-Chlordane	1	REG	4.22	4.22	4.25	4.23	0.017	+/- 0.052
4,4'-DDE	1	REG	4.32	4.32	4.34	4.33	0.012	+/- 0.035
Endosulfan-I	1	REG	4.39	4.39	4.41	4.40	0.012	+/- 0.035
Dieldrin	1	REG	4.69	4.69	4.71	4.70	0.012	+/- 0.035
Endrin	1	REG	4.99	4.99	5.02	5.00	0.017	+/- 0.052
4,4'-DDD	1	REG	5.10	5.10	5.12	5.11	0.012	+/- 0.035
Endosulfan-II	1	REG	5.30	5.30	5.32	5.31	0.012	+/- 0.035
4,4'-DDT	1	REG	5.49	5.49	5.52	5.50	0.017	+/- 0.052
Endrin aldehyde	1	REG	5.90	5.90	5.92	5.91	0.012	+/- 0.035
Methoxychlor	1	REG	6.24	6.24	6.27	6.25	0.017	+/- 0.052
Mirex	1	REG	6.37	6.37	6.40	6.38	0.017	+/- 0.052
Endosulfan sulfate	1	REG	6.56	6.56	6.58	6.57	0.012	+/- 0.035
Endrin ketone	1	REG	6.99	6.99	7.01	7.00	0.012	+/- 0.035
Hexachlorobenzene	2	REG	2.75	2.75	2.74	2.75	0.006	+/- 0.030 <sup>a</sup>
alpha-BHC	2	REG	2.86	2.86	2.85	2.86	0.006	+/- 0.030 <sup>a</sup>
gamma-BHC (Lindane)	2	REG	3.20	3.21	3.20	3.20	0.006	+/- 0.030 <sup>a</sup>
beta-BHC	2	REG	3.27	3.27	3.27	3.27	0.000	+/- 0.030 <sup>a</sup>
delta-BHC	2	REG	3.60	3.60	3.60	3.60	0.000	+/- 0.030 <sup>a</sup>
Heptachlor	2	REG	3.70	3.70	3.70	3.70	0.000	+/- 0.030 <sup>a</sup>
Aldrin	2	REG	4.09	4.09	4.09	4.09	0.000	+/- 0.030 <sup>a</sup>
Heptachlor epoxide	2	REG	4.82	4.82	4.82	4.82	0.000	+/- 0.030 <sup>a</sup>
gamma-Chlordane	2	REG	5.08	5.08	5.08	5.08	0.000	+/- 0.030 <sup>a</sup>
alpha-Chlordane	2	REG	5.29	5.29	5.29	5.29	0.000	+/- 0.030 <sup>a</sup>
Endosulfan-I	2	REG	5.37	5.37	5.37	5.37	0.000	+/- 0.030 <sup>a</sup>
4,4'-DDE	2	REG	5.53	5.53	5.53	5.53	0.000	+/- 0.030 <sup>a</sup>
Dieldrin	2	REG	5.77	5.77	5.77	5.77	0.000	+/- 0.030 <sup>a</sup>
Endrin	2	REG	6.23	6.23	6.23	6.23	0.000	+/- 0.030 <sup>a</sup>
4,4'-DDD	2	REG	6.41	6.41	6.41	6.41	0.000	+/- 0.030 <sup>a</sup>

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# RETENTION TIME WINDOW DETERMINATION

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Instrument ID: GC4G  
Method: SW846 8081A

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	4G596.D	10/21/10 17:20	G4G19-ICC19	OWENM
Std#2	4G615.D	10/21/10 21:48	G4G20-CC19	OWENM
Std#3	4G622.D	10/22/10 09:51	G4G21-CC19	OWENM

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+/- 3*StdDev)
Endosulfan-II	2	REG	6.56	6.56	6.56	6.56	0.000	+/- 0.030 <sup>a</sup>
4,4'-DDT	2	REG	6.92	6.92	6.92	6.92	0.000	+/- 0.030 <sup>a</sup>
Endrin aldehyde	2	REG	7.10	7.10	7.10	7.10	0.000	+/- 0.030 <sup>a</sup>
Endosulfan sulfate	2	REG	7.56	7.56	7.57	7.56	0.006	+/- 0.030 <sup>a</sup>
Methoxychlor	2	REG	8.09	8.09	8.10	8.09	0.006	+/- 0.030 <sup>a</sup>
Mirex	2	REG	8.39	8.39	8.40	8.39	0.006	+/- 0.030 <sup>a</sup>
Endrin ketone	2	REG	8.46	8.46	8.46	8.46	0.000	+/- 0.030 <sup>a</sup>

(a) Default minimum StdDev of .01 minutes employed.

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4624Date: 10/27/10Analyst Signature: du mllm

## Standard Data

## Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
5145445A	Rest Mix	10ppm
-482	↓	25ppb
-43	16m	100ppb
-37	P.E.A.I.V.	20ppb
592020		
544577	Hexane (Baker)	

Columns: RTK6LPT/RTK6L10Method 8081Initial Cal. Method 48519Injection Volume: 1ulDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: du mllmDate: 10/28/10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	46770	CC19-10				1	1		/	OK	
	771	10T				2	1		/	OK	
	772	OP46365-MB1	46365-1	8081	S	3	1		/	OK	
	773	-081				4	1		/	OK	
	774	JA59693-1				5	1		/	OK	RR 1:5
	775	-4				6	1		/	OK	RR 1:10
	776	-6				7	1		/	OK	RR 1:20
2	777	JA58710-14	46238-1	8081	S	8	1		/	OK	
2	778	-15				9	1		/	OK	
2	779	OP46238-MB				10			/	OK	
2	780	CC19-25				11			/	OK	
	781	CC19-25				12			/	OK	
	782	OP46373-MB1	46373-1	8081	S	13			/	OK	
	783	-081				14			/	OK	
	784	JA58675-17A				15			/	OK	
2	785	JA59693-1	46365-1	8081	S	16	5		/	OK	
2	786	-4				17	10		/	OK	
2	787	-6				18	20		/	OK	
	788	JA59264-1	46279-1	8081	S	19	1		/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4624Date: 10/27/10Analyst Signature: Ch Miller

## Standard Data

## Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
10-546-410	REST M.X	1010
410	↓	2510
43	PEM	10010
37	PCB 16	7010
532030	RECAL (B.M.V.)	

Columns: RTXCL12/RTXCL15Method 8081Initial Cal. Method 48519Injection Volume: 1.0Date Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Ch MillerDate: 10/28/10

R	Data File	Sample ID	Ext. Batch	Test	MALS T X	Dilution	IS	SU	Status (Data)	Comments
	46789	SA5947-5	46202-1	8081	5	20		/	OK	
	790	-8				21		/	OK	
L	791	-8				22	10	/	OK	
	792	CC19-10				23	1	/	OK	
	793	DOT				24		/	OK	
	794	OP46354-MBI	46354-1	8081	5	25		/	OK	
	795	-821				26		/	OK	
	796	-05				27		/	OK	
	797	-M50				28		/	OK	
	798	TA57473-18				29		/	OK	RR 1:10
	799	-1				30		/	OK	RR 1:10, 1:100
	800	-2				31		/	OK	RR 1:10, 1:200
	801	-3				32		/	OK	RR 1:10, 1:300
	802	-4				33		/	OK	RR 1:10, 1:200
	803	EC19-25				34		/	OK	
	804	IS				35		/	OK	
	805	TA59473-5	46354-1	8081	1	26			NOT USING	NO ECC
	806	-6				37			↓	↓
	807	-7				38			↓	↓

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G24Date: 10/27/10Analyst Signature: [Signature]

## Standard Data

## Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
46808	Opt mix	60µ
458	↓	25µ
437	PEBIL	24µ
4110		

Columns: RTXCLP/RTXCLPMethod 8081Initial Cal. Method 46808Injection Volume: 1µDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 10/28/10

R	Data File	Sample ID	Ext. Batch	Test	MALS T X #	Dilution	IS	SU	Status (Data)	Comments
	46808	JAS9473-8	4635-1-1	8081	3	37			✓	NO ECC
	809	-9			40					
	810	-10			41					
	811	-11			42					
	812	-12			43					
	813	-13			44					
	814	CC19-10			45					DOT 1 Methox Lem both
	815	EB			46					NO ECC
	816	JAS9473-14	46354-1	8081	3	47				
	817	-15			48					
	818	-16			49					
	819	-17			50					
	820	0146373-ME	46378-1	8081	3	51				
	821	-ME			52					
	822	JAS8906-3			53					
	823	CC19-25			54					
	824	EB			56					

MTX = Matrix; Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

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Rev. Date: 10/20/04

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4627Date: 10/11/10Analyst Signature: Ch M. L. B.

## Standard Data

## Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
SW 10-24-438	Pest Mix	100%
-452	↓	20%
-49	Pest	100%
-57	Pest	20%
532520	Mercury (Bank)	

Columns: 21X600/21X600Method: 8081Initial Cal. Method: 90510Injection Volume: 10Date Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Ch M. L. B.Date: 11/2/10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	46916	CC19-10				1	1			OK	not used
	917	005				2				OK	
	918	FB				3				OK	
2	919	5A59635-1A	46273-1	8081	5	4	4			OK	
2	920	5A59473-13	46375-1	8081	5	5	20			OK	
2	921	-14				6	10			OK	
2	922	-15				7	20			OK	
2	923	-16				8	30			OK	
2	924	-17				9	10			OK	
	925	-6				10	2000			OK	
	926	-9				11	1000			OK	
	927	CC19-25				12	1			OK	not used
	928	FB				13				OK	
	929	0P46455-7B1	46455-1	8081	5	14				OK	
	930	-821				15				OK	not used
2	931	0P46973-1A	46373-1	8081	5	16				OK	
2	932	-130				17				OK	
2	933	5A58900-3				18				OK	
	934	5A59779-1	46455-1	8081	5	19				OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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Rev. Date: 10/20/04

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4627Date: 11/1/10Analyst Signature: On Miller

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
1012-84-416	Dist mix	1011
-430	↓	1511
-43	PEM	10211
-37	PEB16	2011

Columns: EXTACT/EXTACTMethod 8081Initial Cal. Method 40519Injection Volume: 1.0Date Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: On MillerDate: 11/2/10

R	Data File	Sample ID	Ext. Batch	Test	MALS T X	Dilution	IS	SU	Status (Data)	Comments
	46935	JA59800-1	46455-1	8081	20			/	OK	
	936	JA59871-1			21			/	OK	
	937	JA59872-1			22			/	OK	
	938	CC19-10			23			/	OK	
	939	005			24			/	OK	
	940	FB			25			/	OK	
	941	JA59800-1	46373-1	8081	26			/	OK	
	942	-2			27			/	OK	
	943	-4			28			/	OK	
	944	-7			29			/	OK	
	945	-8			30			/	OK	
	946	-9			31			/	OK	
	947	-12			32			/	OK	
	948	-14			33			/	OK	
	949	CC19-25			34			/	OK	ES 1.0-2.0
	950	FB			35			/	OK	
	951	0146365-m3	46365-1	Peridid	36			/	OK	
	952	-m3D			37			/	OK	
	953	JA59193-7			38			/	OK	RL1:10

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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Rev. Date: 10/20/04



Batch ID: 64622

Date: 11/1/10

Analyst Signature: [Signature]

## Standard Data

[illegible]

Lot #	Description	Conc.
10546-41A	1st mix	10 <sub>41A</sub>
458	↓	25 <sub>11B</sub>
39	2nd mix	10 <sub>41B</sub>

Columns: RTXCLPF/RTXCLPF

## Method

Initial Cal. Method 4/5/59

**Injection Volume:** \_\_\_\_\_

Date Archived:

**Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.**

Supervisor Signature: [Signature]

Date: 4/2/10

[illegible]

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

**Sample volume/weight refer to extraction log.**

**All strikeouts must be initialed, dated and reason code applied as follows:**

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst 's correction error

Form: OR016-05

**Rev. Date: 10/20/04**

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**ACCUTEST.****SEMIVOLATILE by GC ANALYSIS LOG**Batch ID: 64629Date: 11/3/10Analyst Signature: (Signature)**Standard Data****Standard Data**

Lot #	Description	Conc.

Lot #	Description	Conc.

Columns: RT KCLC 12 KCLC RTMethod: 8081Initial Cal. Method: 9851mInjection Volume: 1.0Date Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: (Signature)Date: 11-4-10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	461013	CC1A-10				1	1		/	OK	
	14	DDT				2	1		/	OK	
	15	IB				3	1		/	OK	
2	16	JAS5218-108	46455-1	P081	5	4	20		/	OK	
2	17	JAS5400-12	46474-1	P081	5	5	10		/	OK	
	18	JAS5400-10	46773-1	P081	5	6	1		/	OK	
	19	-11				7	1		/	OK	
	20	JAS9102-1	46279-1	P081	5	8	1		/	OK	
	21	-8				9	1		/	OK	
	22	JAS7193-6				10	1		/	OK	
	23	-9				11	1		/	OK	
	24	CC1A-25				12	1		/	OK	
	25	IB				13	1		/	OK	
2	26	JAS5411-2	46378-1	P081	5	14	10		/	OK	
2	27	-3				15	1		/	OK	
2	28	-4				16	1		/	OK	
2	29	-6				17	1		/	OK	
2	30	-9				18	1		/	OK	
2	31	-10				19	1		/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR016-05

Rev. Date: 10/20/04

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: 64629Date: 11/3/10Analyst Signature: Chris Miller

## Standard Data

## Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
SW-946-43	DOT	100ppb
43A	Pest Mix	10
43B	L	25
37	IB	20

Columns: RTXCLPE/RTXCLPEMethod: KOR1Initial Cal. Method: 48519Injection Volume: 1.0Date Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 11-4-10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	461032	CC19-10				20	1		✓	OK	
	32	DOT				21	1		✓	OK	
	34	IB				22	1		✓	OK	
	35	OP46475-MB1	46475-1	KOR1	3	23	1		✓	OK	
	36	-B31				24	1		✓	OK	
	37	JA59430-4				25	1		✓	OK	
	38	-7				26	1		✓	OK	
	39	OP46491-MB1	46491-1	KOR1	5	27	1		✓	OK	
	40	-B31				28	1		✓	OK	
	41	JA60830-5				29	1		✓	OK	
	42	JA57558-12				30	1		✓	OK	
	43	CC19-25				31	1		✓	OK	
	44	IB				32	1		✓	OK	
	45	JA57805-1	46491-1	KOR1	5	33				RE	MOECC
	46	-8				34					
	47	-10				35					
	48	-13				36					
	49	JA59922-1				37					
	50	JA59819-1				38					

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

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Rev. Date: 10/20/04

Batch ID: 64629

Date: 11/8/10

Analyst Signature: Chris Miller B

### Standard Data

## Standard Data

[illegible][illegible]

Columns: RDXLPE/PTXCLPE

Method 8081

Initial Cal. Method 491519

Injection Volume: 100

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: 

Date: 11-4-10

R	Data File	Sample ID	Ext. Batch	Test	MALS T X #	Dilution	IS	SU	Status (Data)	Comments
	461051	JAS-739-y	46148-L	POTI	-5	B+			RL	No ECC
	52	-6			XO				L	
	53	-11			X1				L	
	34	CCLG-10			X2				NK No Peak	POT + Both
	55	F3			XZ <del>X7</del> MILITARY				↓	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

**Sample volume/weight refer to extraction log.**

**All strikeouts must be initialed, dated and reason code applied as follows:**

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Form: OR016-05

Rev. Date: 10/20/04

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GEF 4061Date: 10/14/2010Analyst Signature: [Signature]

## Standard Data

## Standard Data

Lot #	Description	Conc.
546-15	Ar 1221	1000 ppb
-49/-121	1232	
-122	1242	
-123	1248	
-124	1254	
-125	1262	
-126	1268	

Lot #	Description	Conc.
546-124	Ar 1016/1260	50 ppb
-19B		250 ppb
-36A		500 ppb
-36B		1000 ppb
-19C		2000 ppb
-19D		3000 ppb
-40	2nd Service 100	1000 ppb

Columns: FTXCLIP/STCUPITMethod 8082Initial Cal. Method PCP 405780  
10/14/2010Injection Volume: 1.0 L

Date Archived: \_\_\_\_\_

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 10/14/10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	EF93560	1B IC 4061-500	SD 10/14/10			1	1			OK	
	561	IC 4061-1000	Ar 1221			2	1			OK	
	562	-1000	1232			3	1			OK	
	563	-1000	1242			4	1			OK	
	564	-1000	1248			5	1			OK	
	565	-1000	1254			6	1			OK	
	566	-1000	1262			7	1			OK	
	567	-1000	1268			8	1			OK	
	568	IC 4061-50	Ar 1016/1260			9	1			OK	
	569	-250				10	1			OK	
	570	-500				11	1			OK	
	571	1000				12	1			OK	
	572	-2000				13	1			OK	
	573	-3000				14	1			OK	
	574	ICV 4061-1000				15	1			OK	

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Sample volume/weight refer to extraction log.

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Form: OR016-05

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# RETENTION TIME WINDOW DETERMINATION

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Instrument ID: GCEF  
Method: SW846 8082

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	EF93571.D	10/14/10 12:27	GEF4061-ICC4061	VINCE
Std#2	EF93581.D	10/14/10 16:40	GEF4062-CC4061	VINCE
Std#3	EF93592.D	10/14/10 21:32	GEF4062-CC4061	VINCE

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+/- 3*StdDev)
Tetrachloro-m-xylene	1	SURR	3.15	3.15	3.15	3.15	0.000	+/- 0.030 <sup>a</sup>
Decachlorobiphenyl	1	SURR	11.60	11.60	11.60	11.60	0.000	+/- 0.030 <sup>a</sup>
Tetrachloro-m-xylene	2	SURR	3.11	3.10	3.11	3.11	0.006	+/- 0.030 <sup>a</sup>
Decachlorobiphenyl	2	SURR	12.08	12.08	12.07	12.08	0.006	+/- 0.030 <sup>a</sup>
AR1016-A	1	REG	3.67	3.67	3.66	3.67	0.006	+/- 0.030 <sup>a</sup>
AR1016-B	1	REG	4.18	4.18	4.18	4.18	0.000	+/- 0.030 <sup>a</sup>
AR1016-C	1	REG	4.88	4.88	4.88	4.88	0.000	+/- 0.030 <sup>a</sup>
AR1016-D	1	REG	5.38	5.38	5.38	5.38	0.000	+/- 0.030 <sup>a</sup>
AR1016-E	1	REG	5.70	5.70	5.69	5.70	0.006	+/- 0.030 <sup>a</sup>
AR1260-A	1	REG	7.99	7.99	7.98	7.99	0.006	+/- 0.030 <sup>a</sup>
AR1260-B	1	REG	8.43	8.42	8.42	8.42	0.006	+/- 0.030 <sup>a</sup>
AR1260-C	1	REG	8.98	8.98	8.97	8.98	0.006	+/- 0.030 <sup>a</sup>
AR1260-D	1	REG	9.46	9.46	9.45	9.46	0.006	+/- 0.030 <sup>a</sup>
AR1260-E	1	REG	9.92	9.92	9.91	9.92	0.006	+/- 0.030 <sup>a</sup>
AR1016-A	2	REG	3.78	3.78	3.78	3.78	0.000	+/- 0.030 <sup>a</sup>
AR1016-B	2	REG	4.36	4.36	4.36	4.36	0.000	+/- 0.030 <sup>a</sup>
AR1016-C	2	REG	5.04	5.04	5.04	5.04	0.000	+/- 0.030 <sup>a</sup>
AR1016-D	2	REG	5.59	5.59	5.59	5.59	0.000	+/- 0.030 <sup>a</sup>
AR1016-E	2	REG	5.93	5.93	5.93	5.93	0.000	+/- 0.030 <sup>a</sup>
AR1260-A	2	REG	8.19	8.18	8.18	8.18	0.006	+/- 0.030 <sup>a</sup>
AR1260-B	2	REG	8.73	8.72	8.72	8.72	0.006	+/- 0.030 <sup>a</sup>
AR1260-C	2	REG	9.32	9.32	9.32	9.32	0.000	+/- 0.030 <sup>a</sup>
AR1260-D	2	REG	9.72	9.71	9.71	9.71	0.006	+/- 0.030 <sup>a</sup>
AR1260-E	2	REG	10.28	10.27	10.27	10.27	0.006	+/- 0.030 <sup>a</sup>

(a) Default minimum StdDev of .01 minutes employed.

10.7.11  
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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GEF 4072Date: 10/28/10Analyst Signature: [Signature]

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
44A	Pr 104/1240	500 ppb
44B	*	1000 ppb
37	PIBLK	20 ppb
J32E20	Hexane/Bs/Kr	

Columns: RTXCLP/RTXCLPMethod 8082Initial Cal. Method PCB 4061Injection Volume: 1 µLDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 11-2-10

R	Data File	Sample ID	Ext. Batch	Test	MALS T X	Dilution	IS	SU	Status (Data)	Comments
	EP93895	cc 4061-500			33	1			OK	
	896	1/5			1	1			OK	
K	897	JA59635-1A	46374-1	8082	2	1			OK	K15
F	898	-2A			3	1			OK	
K	899	JA59264-1	46260-1	8082	4	1			OK	
K	900	JA57556-33RU	46374-1	8082	5	1			OK	matrix
R	901	-33RU			6	2000			OK	
	902	OP46320-PS1	46320-1	8082	7	1				
	903	-MS			8	1				
	904	-MSD			9	1				
	905	cc 4061-1000			10	1			OK	1260c10w2d
	906	cc 4061-1000			10	1			OK	
	907	1/5			11	1				
	908	OP46374-MS	46374-1	8082	12	1			OK	
	909	-PS1			13	1			OK	
	910	JA59573-1			14	1			OK	
	911	OP46374-MS			15	1			OK	
	912	-MSD			16	1			OK	
	912	JA58900-3			17	1				

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GEF 4072Date: 10/28/10  
Standard DataAnalyst Signature: [Signature]

Lot #	Description	Conc.

Lot #	Description	Conc.
546-442	PC 1010/1240	500 ppb
-446	+	1000 ppb
-37	PUBLK	20 ppb

Columns: PT-CLP I / RT-CLP IIMethod 8082Initial Cal. Method PCB 4061Injection Volume: 1 µLDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 11-2-10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	EF93914	1A58900-1	46374-1	8082	S	18	1				
	915	1A58817-12	46263-1	8082	S	19	1			OK	
	916	-4				20	1			NOT RUN	C.T. from Sequence
	917	CC 4061-500				21	1				
	918	16				22	1				
	919	1A58900-2	46374-1	8082	S	23	1				
	920	-4				24	1				
	921	-7				25	1				
	922	-8				26	1				
	923	-9				27	1				
	924	-10				28	1				
	925	-11				29	1				
	926	-12				30	1				
	927	-14				31	1				
	928	CC 4061-1000				32	1			OK	
	929	16				33	1				
	930	1A59544-3				34	1			NOT RUN	Need TPA
	931	-12				35	1				+
	932	-33				36	1				Baseline Comparison, NR

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

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Form: OR016-05

Rev. Date: 10/20/04



Batch ID: 664 4072

**Date:** 10/28/10

Analyst Signature: *Sal Torres*

## Standard Data

[illegible]

Lot #	Description	Conc.
40-54-44A	Pi 1216/124	500 gals
-44B	"	1500 gals
-37	11/12/4	2000 gals

Columns: RT & C.P.I. / P.O. & P.H.

Method 8082

Initial Cal. Method *PcB4061*

Injection Volume: 1.5 L

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: \_\_\_\_\_

Date: 11-2-10

[illegible]

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

**Sample volume/weight refer to extraction log.**

**All strikeouts must be initialed, dated and reason code applied as follows:**

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Form: OR016-05

**Rev. Date: 10/20/04**

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# ACCUTEST.

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: 64W3143

**Date:**

5/3/10

**Analyst Signature:**

Kaff

### Standard Data

[illegible]

### Standard Data

Lot #	Description	Conc.
5110-41-2A	Herb str.	500 mg
2B		400
2C		300
2D		200
2E		100
2F		50
5	1CV	300

Columns: RTXCLP/RTXCLP11

**Method** 851

Initial Cal. Method *HW 3143*

Injection Volume: 1.0 mL

**Date Archived:**

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

**Supervisor Signature:**

Ch. Miller

Date: 5/5/10

[illegible]

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

**Sample volume/weight refer to extraction log.**

**All strikeouts must be initialed, dated and reason code applied as follows:**

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR016-05

Rev Date: 10/20/04

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GWW31484Date: 5/11/02Analyst Signature: [Signature]

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
500417-MB	Herbst	300 ppb
500417A		200
500491-6	ICV	300
500491-8	IB	400
500491-12	Herb ICV SA	300

Columns: ATXCLP1/ATXCLP11Method 8151Initial Cal. Method HWW3143Injection Volume: 1.0 µLDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 5/15/02

R	Data File	Sample ID	Ext. Batch	Test	MTX T X	Dilution	IS	SU	Status (Data)	Comments
	<del>80025</del>	CC3143-300			20	1		✓	OK	
	<del>80026</del>	ICV3143-300			1	1			OK	dichloromethane fail, OK 27-02
	80027	OP43369-mb2	43369-2	8151	21	1		✓	OK	
	80028	bs2		TCLP	22	1		✓	OK	
	80029	1b12			23	1		not run		changed sep.
	80030	JA45318-1			24	1		✓	OK	
	80031	2			25	1		✓	OK	
R	80032	OP43235-mb2	43235-2		26	1		✓	OK	JA45099-1
	80033	bs2			27	1		✓	OK	2
	80034	JA45099-1			28	1		✓	OK	3
R	80035	2			29	1		✓	OK	OP43235-mb2
	80036	3			30	1		✓	OK	bs2
	80037	CC3143-200			31	1		✓	OK	
	80038	ICV3143-300			32	1			OK	
	80039	OP43346-mb1	43346-1	FLS	33	1		✓	OK	
	80040	bs1			34	1		✓	OK	
	80041	ms			35	1		✓	OK	
	80042	MSD			36	1		✓	OK	
	80043	JA45207-1			37	1		✓	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (If used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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Batch ID: Gww3/44

Date: 5/4/10

**Analyst Signature:**

### Standard Data

### Standard Data

[illegible]

Lot #	Description	Conc.
BV-417-NB	Hx b std	300 ppb
87	IB	400 L

Columns: RTXCLP1/RTXCLP11

**Method** 8151

Initial Cal. Method *HW43143*

Injection Volume: 1.0 mL

**Date Archived:**

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

**Supervisor Signature:**

Date: 5/5/10

[illegible]

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

**Sample volume/weight refer to extraction log.**

**All strikeouts must be initialed, dated and reason code applied as follows:**

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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10.7.14 10

Batch ID: 6443173

Date: 5/27/10

Analyst Signature: [Signature]

### Standard Data

[illegible]

## Standard Data

Lot #	Description	Conc.
5110-49F-49F	8011 Std	2.0 $\mu\text{ppb}$
49E	/	1.0
49D	/	0.5
49C	/	0.2
49B	/	0.1
49A	/	0.02
49	1CV	0.5

Columns: RTXCP11/RTXCP11

**Method** *2011*

Initial Cal. Method 504MB/73

Injection Volume: 1.04

**Date Archived:**

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Chris Miller

Date: 5/28/10

[illegible]

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

**Sample volume/weight refer to extraction log.**

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Form: OR016-05

Rev Date: 10/20/04

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# RETENTION TIME WINDOW DETERMINATION

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Instrument ID: GCWW  
Method: SW846-8011

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	WW90653.D	05/27/10 17:34	GW3173-ICC3173	TOYAR
Std#2	WW90680.D	05/28/10 12:10	GW3175-CC3173	TOYAR
Std#3	WW90726.D	05/30/10 16:41	GW3176-CC3173	TOYAR

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+/- 3*StdDev)
2-Bromo-1-chloropropane	1	SURR	2.13	2.12	2.13	2.13	0.006	+/- 0.030 <sup>a</sup>
2-Bromo-1-chloropropane	2	SURR	1.74	1.74	1.74	1.74	0.000	+/- 0.030 <sup>a</sup>
1,2-Dibromoethane	1	REG	2.33	2.32	2.33	2.33	0.006	+/- 0.030 <sup>a</sup>
1,2,3-Trichloropropane	1	REG	4.00	3.99	3.99	3.99	0.006	+/- 0.030 <sup>a</sup>
1,2-Dibromo-3-chloropropane	1	REG	5.86	5.85	5.85	5.85	0.006	+/- 0.030 <sup>a</sup>
1,2-Dibromoethane	2	REG	2.10	2.10	2.10	2.10	0.000	+/- 0.030 <sup>a</sup>
1,2,3-Trichloropropane	2	REG	3.68	3.68	3.68	3.68	0.000	+/- 0.030 <sup>a</sup>
1,2-Dibromo-3-chloropropane	2	REG	5.78	5.77	5.77	5.77	0.006	+/- 0.030 <sup>a</sup>

(a) Default minimum StdDev of .01 minutes employed.

10.7.15  
10

**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GWW3324Date: 10/14/10Analyst Signature: J Hoff

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
510-516-9A	Herb Std	200ppb
1 918	L	300
2	1/3	400

Columns: RTXCLP1/RTXCLP11Method 8157Initial Cal. Method HWW3143Injection Volume: 1.0ulDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: De W. G. JrDate: 10/15/10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	W95105	CC3143-200			W	1	1		✓	OK	
	95106	1301				2	1		✓	OK	
	95107	herb spike		8157		3	1		-	OK	
	95108	JA58224-2	46060-3	TECP		4	1		✓	OK	
	95109	3				5	1		✓	OK	
	95110	CC3143-300				6	1		✓	OK	
	95111	1302				7	1		✓	OK	
	95112	OP46142-BS1	46142-1			8	1		†1st	OK	Confirmation - Report Original
	95113	JA58241-1	46170-1			9	1		†1st	RK	
	95114	JA58241-1	46107-1	STD		10	1		✓	OK	
	95115	JA58241-1	46107-2			11	1		✓	OK	
	95116	JA58241-2	46081-1			12	1		↑	RK	
	95117	OP46107-mbz	46107-2		W	13	1		✓	OK	
	95118	bs2				14	1		✓	OK	
	95119	OP46107-mbz	46107-1	TECP		15	1		✓	OK	
	95120	bs1				16	1		✓	OK	
	95121	CC3143-200				17	1		†1st	OK	solvent std
	95122	OP46081-mbz	46081-1	STD		18	1		✓	OK	Batch out RK
	95123	bs1				19	1		✓	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

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Batch ID: *BWW3324*

**Date:** 10/14/10

Analyst Signature: Kaff

[illegible]

Standard Data		
Lot #	Description	Conc.
SV16 SVL-PB3	Herb SKL	30 µg/mL
1 2	1B	40 µL

Columns:  $R^2XaP_1/R^2XaP_1$

**Method** *P157*

Initial Cal. Method *HWSMB*

Injection Volume: 10ml

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 10/15/10

[illegible]

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

**Sample volume/weight refer to extraction log.**

**All strikeouts must be initialed, dated and reason code applied as follows:**

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Form: OR016-05

Rev Date: 10/20/04

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GWW3334Date: 10/21/10Analyst Signature: J. Raff

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
510596-39	Herb 812	300
2	13	400

Columns: RTXCP1/RTXCP11Method 8151Initial Cal. Method HWW3143Injection Volume: 1.0Date Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 10/22/10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	WWS303	CC3143-300			W	1	1		✓	OK	
	95304	op46267-mbl	46267	8151		2	1		✓	OK	
	95305	JAS8833-12		JCLP		3	1		✓	OK	
	95306	11				4	1		✓	OK	
	95307	10				5	1		✓	OK	
	95308	9				6	1		✓	OK	
	95309	8				7	1		✓	OK	
	95310	7				8	1		✓	OK	
	95311	6				9	1		✓	OK	
	95312	5				10	1		✓	OK	
	95313	4				11	1		✓	OK	
	95314	CC3143-200				12	1		134	OK	
	95315	1301				13	1		✓	OK	
	95316	op46267-B51				14	1		✓	OK	
	95317	JAS8833-3				15	1		✓	OK	
	95318	2				16	1		✓	OK	
	95319	1				17	1		✓	OK	
	95320	op46267-LS11				18	1		✓	OK	
	95321	LB15				19	1		✓	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

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Form: OR016-05

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GWW3334Date: 10/21/10Analyst Signature: J. Hoff

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
510-96358 Herb STD		300ppb
37A		200ppb
1 2	1B	400

Columns: RTXCP1/RTXCP11Method 8151Initial Cal. Method HW3M3Injection Volume: 1.0ulDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: De MillerDate: 10/21/10

R	Data File	Sample ID	Ext. Batch	Test	MTX T X	Dilution	IS	SU	Status (Data)	Comments
	WU95322	JA58750-2	46195-1	8151	S 20	1		✓	OK	
	95323	3		STD	21	1		✓	OK	
	95324	4			22	1		✓	OK	
	95325	CC3143-300			W 23	1		✓	OK	
	95326	1B82			24	1		✓	OK	
	95327	Op46195-m5			S 25	1		✓	OK	
	95328	m5D			26	1		✓	OK	
	95329	JA58750-6			27	1		✓	OK	
	95330	11			28	1		✓	OK	
	95331	12			29	1		✓	OK	
	95332	14			30	1		✓	OK	
	95333	15			31	1		✓	OK	
	95334	16			32	1		✓	OK	
	95335	JA58900-6EB	46107-3		W 33	1		✓	OK	
	95336	CC3143-200			W 34	1		✓	OK	subseq 1 and
	95337	Op46107-mb3			35	1		✓	OK	
	95338	b53			36	1		✓	OK	
	95339	JA58900-5EB			37	1		✓	OK	
	95340	CC3143-300	46195-1		S 38	1		✓	OK	
	95341	1B83			24	1		✓	OK	JA58750-13

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GWW3334Date: 10/21/10Analyst Signature: [Signature]

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
39A	Herb Spd	320 mg
39A		200 mg
2	103	400

Columns: RTXCLP/RTXCLP1Method 8151Initial Cal. Method HuW3413Injection Volume: 10 µLDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 10/25/10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	WU95341	CC3143-300			W	39	1			✓ OK	
	95342	1B03				40	1			✓ OK	
	95343	OP46286-mb1	40286-1	8151		41	1			✓ OK	
	95344	bs1		TEUP		42	1			✓ OK	
	95345	1b18				43	1			✓ OK	
	95346	JA58944-1				44	1			✓ OK	
	95347	JA58462-1				45	1			✓ OK	
	95348	JA58376-1				46	1			✓ OK	
	95349	JA58463-1	46114-4			47	1			✓ OK	
	95350	OP46114-LB19				48	1			✓ OK	
	95351	OP46286-LB16	46286-1			49	1			✓ OK	
	95352	CC3143-200				50	1			✓ OK	always 42nd
	95353	1B04				40	1			✓ OK	
	95354	OP46286-L510				51	1			✓ OK	
	95355	JA58261-12018				52	1			✓ OK	
	95356	126				53	1			✓ OK	
	95357	132				54	1			✓ OK	
	95358	138				55	1			✓ OK	
	95359	144				56	1			✓ OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate...

Sample volume/weight refer to extraction log.

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Batch ID: 644333.4

**Date:** 10/21/70

**Analyst Signature:**

## Standard Data

## Standard Data

[illegible][illegible]

**Columns:**

## Method

### Initial Cal. Method

**Injection Volume:**

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

**Supervisor Signature:**

Date:

[illegible]

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

**Sample volume/weight refer to extraction log.**

**All strikeouts must be initialed, dated and reason code applied as follows:**

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Form: OR016-05

Rev. Date: 10/20/04

**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GWW3348Date: 10/28/10Analyst Signature: [Signature]

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
SW-316-39B	Herb STD	300 ppb
39A	L	200 ppb
2	1B	400

Columns: RTX(CP1)/RTX(CP11)Method 8151Initial Cal. Method HWW3143Injection Volume: 1.0 µLDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 10/29/10

R	Data File	Sample ID	Ext. Batch	Test	MTX T X	ALS #	Dilution	IS	SU	Status (Data)	Comments
	WU95468	CC3173-380			W	1	1		✓	OK	2,4-D list
	95469	1B01				2	1		✓	OK	
	95470	OP46385-mb1	46385-1	8751		3	1		✓	OK	
	95471	bs1		TCUP		4	1		✓	OK	
	95472	1B2				5	1		✓	OK	
	95473	1B2				6	1		✓	OK	
	95474	JA59849-1				7	1		✓	OK	
	95475	OP46386-1B4	46386-1			8	1		✓	OK	
	95476	JA58965-1				9	1		✓	OK	
	95477	JA59455-1				10	1		✓	OK	
	95478	2				11	1		✓	OK	
	95479	CC3173-200				12	1		✓	OK	↓ 1st 2,4-D, 2nd 2,4,5-TPEHST
	95480	1B02				13	1		✓	OK	300 ppb
	95481	OP46377-mb1	46377-1	STD	S	14	1		✓	OK	RTX, sample in HT
	95482	bs1				15	1		✓	OK	↓
	95483	PS				16	1		✓	OK	
	95484	MSD				17	1		✓	OK	
	95485	JA58900-3				18	1		✓	OK	
	95486	7				19	1		✓	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

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Batch ID: GWW3340

Date: 10/28/10

Analyst Signature: SRF

## Standard Data

## Standard Data

[illegible][illegible]

Columns: RTXCUP/RTXCUP/

**Method** 8151

Initial Cal. Method *HuW3143*

Injection Volume: 1.0 mL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 10/15/10

[illegible]

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

**Sample volume/weight refer to extraction log.**

**All strikeouts must be initialed, dated and reason code applied as follows:**

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GWW3343Date: 11/2/10Analyst Signature: [Signature]

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
940-946-94A	Herb STD	200 ppb
1 39B	1	300
2	1B	400

Columns: RTXCP1/RTXCP1Method 8157Initial Cal. Method HWW343Injection Volume: 1.0 ulDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 11/2/10

R	Data File	Sample ID	Ext. Batch	Test	MTX T X	ALS #	Dilution	IS	SU	Status (Data)	Comments
	WV9555	RC3143-200			W	1	1		✓	OK	silver & ind
	95556	Op46386mb3	46386-3	8151		2	1		✓	OK	
	95557	bs3		TCUP		3	1		✓	OK	
	95558	1b5				4	1		✓	OK	
	95559	JA60030-1A				5	1		✓	OK	
	95560	2A				6	1		✓	OK	
	95561	Op46386mb2	46386-2			7	1		✓	OK	
	95562	bs2				8	1		✓	OK	
	95563	JA59157-1				9	1		✓	OK	
	95564	JA58900-1	46377-1	STD	S	10	1		✓	OK	
	95565	2				11	1		✓	OK	
	95566	CC3143-300			W	12	1		✓	OK	silver & ind
	95567	1B01				13	1		✓	OK	
	95568	Op46386-LB3	46386-2	TCUP		14	1		✓	OK	
	95569	LB4				15	1		✓	OK	
	95570	JA59229-1				16	1		✓	OK	
	95571	JA59848-1				17	1		✓	OK	
	95572	EC3143-200				18	1		✓	OK	
	95573	1B02				19	1		✓	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR016-05

Rev. Date: 10/20/04

**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GWW3344Date: 11/3/10Analyst Signature: J. Poff

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
SW-546-393	Herb Std	380ppb
1	1	200
2	15	400

Columns: RTX CUP1/RTX CUP11Method 8151Initial Cal. Method HW3143Injection Volume: 1.0uLDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 11/3/10

R	Data File	Sample ID	Ext. Batch	Test	MALS T X	Dilution	IS	SU	Status (Data)	Comments
	GW95574	QC3143-300			W 1	1		✓	OK	21.5-TT1st
	95575	op46386mb4	46386-4	8151	2	1		✓	OK	
	95576	154		TCUP	3	1		✓	OK	
	95577	118			4	1		✓	OK	
	95578	JA60179-15A			5	1		✓	OK	
	95579	16A			6	1		✓	OK	
	95580	JA58900-4	46377-1	STD	5 7	1		✓	OK	
	95581	10			8	1		✓	OK	
	95582	11			9	1		✓	OK	
	95583	12			10	1		ret men		seq changed
	95584	14			11	1		1		
	95585	EC3143-200			W 12	1		✓	OK	
	95586	1B01			13	1		ret men		seq changed

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Sample volume/weight refer to extraction log.

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**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GWW3346Date: 12/22/10Analyst Signature: Ch Miller

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
SVN-816-1108	Herb S22	300ppb
1108	L	200
2	113	400

Columns: RTXCLP/RTXCLPMethod 8151Initial Cal. Method HWW3143Injection Volume: 1ulDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Ch MillerDate: 12/23/10

R	Data File	Sample ID	Ext. Batch	Test	MALS T X	Dilution	IS	SU	Status (Data)	Comments
	<u>W 9653</u>	<u>CC3143-300</u>			<u>W</u>	<u>1</u>			<u>OK</u>	<u>strip Mst</u>
	<u>96954</u>	<u>Op47337-mb2</u>	<u>47337-2</u>	<u>8151</u>		<u>2</u>	<u>1</u>		<u>OK</u>	
	<u>96955</u>	<u>bs2</u>		<u>TCLP</u>		<u>3</u>	<u>1</u>		<u>OK</u>	
	<u>96956</u>	<u>Q13839-IT</u>				<u>4</u>	<u>1</u>		<u>OK</u>	
	<u>96957</u>	<u>JAW4200-1</u>				<u>5</u>	<u>1</u>		<u>OK</u>	
	<u>96958</u>	<u>JAW4201-1</u>	<u>47187-4</u>			<u>6</u>	<u>1</u>		<u>OK</u>	
	<u>96959</u>	<u>JAW4520-1</u>	<u>47385-1</u>			<u>7</u>	<u>1</u>		<u>OK</u>	
	<u>96960</u>	<u>JAW4339-1</u>	<u>47386-1</u>			<u>8</u>	<u>1</u>		<u>OK</u>	
	<u>96961</u>	<u>Op47386-LS2</u>				<u>9</u>	<u>1</u>		<u>OK</u>	
	<u>96962</u>	<u>Op47337-LB1</u>				<u>10</u>	<u>1</u>		<u>OK</u>	
	<u>96963</u>	<u>Op47187-LB8</u>				<u>11</u>	<u>1</u>		<u>OK-RX</u>	
	<u>96964</u>	<u>CC3143-200</u>				<u>12</u>	<u>1</u>		<u>OK</u>	<u>strip M</u> <u>2,4-Dxmd</u>
	<u>96965</u>	<u>1B01</u>				<u>13</u>	<u>1</u>		<u>OK</u>	
	<u>96966</u>	<u>Op47385-LB1</u>	<u>47385-1</u>			<u>14</u>	<u>1</u>		<u>OK</u>	
	<u>96967</u>	<u>LB1</u>				<u>15</u>	<u>1</u>		<u>OK</u>	
	<u>96968</u>	<u>JAW4139-1</u>	<u>47337-2</u>			<u>16</u>	<u>1</u>		<u>OK</u>	
	<u>96969</u>	<u>2</u>				<u>17</u>	<u>1</u>		<u>OK</u>	
	<u>96970</u>	<u>3</u>				<u>18</u>	<u>1</u>		<u>OK</u>	
	<u>96971</u>	<u>4</u>				<u>19</u>	<u>1</u>		<u>OK</u>	

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

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Rev. Date: 10/20/04

Batch ID: GW3396

Date: 12/22/10

Analyst Signature: T. Hoff

### Standard Data

### Standard Data

[illegible]

Lot #	Description	Conc.
SV10-940-11013	Herb Std	300ppm
1 2	LB	400ppm

Columns: ATXCP/ATXCP/

Method 8157

Initial Cal. Method HW 3/43

Injection Volume: 1.0ml

**Date Archived:** \_\_\_\_\_

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Ch M. [Signature]

Date: 12/23/19

[illegible]

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

**Sample volume/weight refer to extraction log.**

**All strikeouts must be initialed, dated and reason code applied as follows:**

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10.7.21

**ACCUTEST.**

## SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GWW3348Date: 11/4/10Analyst Signature: [Signature]

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
810546	Herbstd	300ppb
1 39A	1	200
2	1B	400

Columns: RTVCP/RTVCP11Method 8151Initial Cal. Method HW3143Injection Volume: 1.0µlDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 11/5/10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6295042	CC3143-200				12	1		✓	OK	24-0115
	95643	1601				13	1		✓	OK	
	95644	JA58900-12	463771	8151		14	1		✓	OK	
	95645	14		STD		15	1		✓	OK	
	95646	op46489-mb2	46489-1	TCLP		16	1		✓	OK	
	95647	bs2				17	1		✓	OK	
	95648	JA60485-1				18	1		✓	OK	
	95649	op46520-LB6	46519-1			19	1		✓	OK	
	95650	JA59829-2				20	1		✓	OK	
	95651	op46386-LB9	46386-5			21	1		✓	OK	
	95652	op46579-LB10	46579-1			22	1		✓	OK	
	95653	CC3143-200				23	1		✓	OK	24-0115 + solvent & 2nd
	95654	op46578-mb1	46578-1			24	1		✓	OK	
	95655	bs1				25	1		✓	OK	
	95656	167				26	1		✓	OK	
	95657	153				27	1		✓	OK	
	95658	JA60220-1				28	1		✓	OK	
	95659	op46519-L35	46519-1			29	1		✓	OK	
	95660	JA60477-1				30	1		✓	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR016-05

Rev. Date: 10/20/04

89

Batch ID: G4W3348

**Date:** 2/14/10

**Analyst Signature:**

## Standard Data

## Standard Data

[illegible][illegible]

Columns: *KXCP1/KXCP1*

**Method** 881

Initial Cal. Method *HW343*

Injection Volume: 1.0ml

**Date Archived:**

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Chris Miller

Date: 4/5/60

[illegible]

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

**All strikeouts must be initialed, dated and reason code applied as follows:**

**1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst 's correction error**

Form: OR016-05

Rev Date: 10/20/04

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**ACCUTEST.****SEMIVOLATILE by GC ANALYSIS LOG**Batch ID: 6WW3356Date: 11/12/10Analyst Signature: J. Raff

## Standard Data

Lot #	Description	Conc.

## Standard Data

Lot #	Description	Conc.
W1856-89	Herb SK	20ppb
1856	1	30
2	LB	70
3E20	Hexamethylen	

Columns: RTXCLP/RTXCLP11Method 8151Initial Cal. Method HW3143Injection Volume: 1.0 µLDate Archived:  

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 11/15/10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	W95883	CC3143-202			W	1	1			✓	OK
	95884	1B01				2	1			✓	OK
	95885	OP46441-mb1	46441-1	EL	S	3	1			✓	OK
	95886	1B1				4	1			✓	OK
	95887	MS				5	1			✓	OK
	95888	MSD				6	1			✓	OK
	95889	JA592183P				7	1			✓	OK
	95890	1B1				8	10			✓	OK
	95891	CC3143-300			W	9	1			✓	OK
	95892	OP46438-mb2	46438-2	TCUP		10	1			✓	OK
	95893	1B2				11	1			✓	OK
	95894	JA61122-1				12	1			✓	OK
	95895	OP46438-b2				13	1			✓	OK
	95896	OP46438-mb3	46438-3	STD		14	1			✓	OK
	95897	1B3				15	1			✓	OK
	95898	JA60591-1				16	1			✓	OK
	95899	CC3143-200				17	1			✓	OK
	95900	1B02				18	1			✓	OK

MTX = Matrix. Designate W for water, S for soil, O for oil. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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EXT-AQ 10-484


**ACCUTEST.**

## LIQUID/LIQUID EXTRACTION

**EXTRACTION TIME:**

4:10 pm

## ~~Separatory~~ Funnel

### Continuous Liquid Liquid

Supervisor Review

**EXTRACT METHOD** (circle one)

~~SW846 35108~~

EPA 600 series / EPA 500 series / CLP / other

SW846 3520C / CLP / other

Signature \_\_\_\_\_

EXTRACTION DATE:

ANALYST: *67*

**METHOD:** *Herb*

Water Bath Temp(C) 21°

Nitrogen Evap Temp(C) 35

Date \_\_\_\_\_

[illegible]

See back for instructions

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EXT-AQ 10484



ACCUTEST

# LIQUID/LIQUID EXTRACTION

EXTRACTION TIME: 4.00pm Separatory Funnel

EXTRACT METHOD (circle one) SW846 3510C / EPA 600 series / EPA 500 series / CLP / other

EXTRACTION DATE: 10/13/10 ANALYST: GJ

METHOD: Herb Water Bath Temp(C) 61

Continuous Liquid Liquid

SW846 3520C / CLP / other

Nitrogen Evap Temp(C) 35

BATCH #

GC46107-2

RACK#

GE-8

Supervisor Review

Signature: [Signature]

Date: 10/13/10

Sample #	Sample Bottle #	Analysis Type	Sample Description	Sample Vol (ml)	Oil Wt. (g)	pH Adjust (ml)		Final Extract Vol (ml)	Color	Extract Cleanup				Comments	SURROGATE SPIKE DATA			
						>11	1.3			GPC	H2SO4	Cu	Florisil		LOT #	CONC. (PPM)	AM ADD (ML)	
MB	2	Herb	Herb	1000	1	1.3	10	Clear						BASE				
BS	2	Herb	Herb	1000	1	1.3	10	Clear						ACID				
MS														PPCB				
MSD														HERB	910-12-131	109pm	0.5	
BS	10													WITNESS SIGN: GJ				
MS	10													MATRIX SPIKE DATA				
MSD														LOT #	CONC.	AM ADD (ML)		
1	JAS8624-1	7	Herb	Clear	1000	1	1.3	10	Clear					BASE				
2	-3	7	Herb	Clear	1000	1	1.3	10	Clear					ACID				
3														PEST				
4														PCB				
5														HERB	910-12-89	Various	0.5	
6														WITNESS SIGN: GJ				
7														SOLVENT DATA				
8														LOT #	BRAND	X/ML		
9														METH CHLOR	52550	Her	13.6	
10														HEXANE	52550	Baker		
11														ACETONE	52550	Baker		
12														ETH ETHER	52550	Baker		
13														REAGENT/FILTER MEDIA				
14														LOT #	BRAND			
15														SODIUM SULF	910-12-06	Fisher		
16														FILTER PAPER				
17														1% H2SO4	910-11	Baker Chem.		
18														1% NaOH	290681	↓		
19														COPPER	910-11			
20														FLORISIL				
														SULFURIC ACID				

COMMENTS:

See back for instructions

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EXT-AQ 10-484



ACCUTEST

# LIQUID/LIQUID EXTRACTION

EXTRACTION TIME: 5.16 hr

Separatory Funnel

Continuous Liquid Liquid

EXTRACT METHOD (circle one)

SW846 3540C / EPA 600 series / EPA 500 series / CLP / other

SW846 3520C / CLP / other

EXTRACTION DATE: 10/10/00

ANALYST: R

METHOD: Herb

Water Bath Temp(C) 63

Nitrogen Evap Temp(C) 55

Supervisor Review

Signature

Date

BATCH # 646107-3

RACK# 6F-12

Sample #	Sample Bottle #	Analysis Type	Sample Description	Sample Vol (ml)	Oil Wt. (g)	pH Adjust (ml)		Final Extract		Extract Cleanup				Comments	SURROGATE SPIKE DATA			
						NaOH	H2SO4	Vol(ml)	Color	GPC	H2SO4	Cu	Florisil		LOT #	CONC. (PPM)	AMT ADDED (ML)	
MB 2		Herb	Dilute	1000		1	3	10	Clear						BASE			
BS 3		↓	Dilute	1000		1	3	10	Clear						ACID			
MS															PCPB			
MSD															HERB	9710-420-131	100ppm	0.5
BS 57															WITNESS SIGN: 67			
MS 7/10															MATRIX SPIKE DATA			
MSD															LOT #	CONC.	AMT ADDED (ML)	
JA58900-5 EB	4	Herb	Clear	900		1	3	10	Clear						BASE			
-6 EB	3	↓	Clear	730		1	3	10	Clear						ACID			
															PEST			
															PCB			
															HERB	9710-420-131	100ppm	0.5
															WITNESS SIGN: 67			
															SOLVENT DATA			
															LOT #	BRAND	X/ML	
															METH CHLOR	DC 577	Am 3x80	
															HEXANE	HS1655	Baker	
															ACETONE			
															ETH ETHER	5215-7	Baker	
															REAGENT/FILTER MEDIA			
															LOT #	BRAND		
															SODIUM SULF	9710-420-131	Fisher	
															FILTER PAPER			
															1. KH2SO4	9710-420-131	Ricca Chem.	
															NON NAOH	2926161	Ricca Chem.	
															COPPER			
															FLORISIL			
															SULFURIC ACID			

COMMENTS:

See back for instructions

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EXT-AQ 10-484



**ACCUTEST.**

## LIQUID/LIQUID EXTRACTION

EXTRACTION TIME: 5:30pm

### ~~Separatory~~ Funnel

### Continuous Liquid Liquid

~~Supervisor~~ Review

**EXTRACT METHOD (circle one)**

SW846 35100 / EPA 600 series / EPA 500 series / CLP / other

SW846 3520C / CLP / other.

Signature \_\_\_\_\_

EXTRACTION DATE: 10/6/10

ANALYST: *AN*

METHOD: Herb

Water Bath Temp(C) 61°

Nitrogen Evap Temp(C)

Date \_\_\_\_\_

Sample #	Sample Bottle #	Analysis Type	Sample Description	Sample Vol (ml)	Oil Wt. (g)	pH Adjust (ml)		Final Extract Vol(ml)	Color	Extract Cleanup				Comments	SURROGATE SPIKE DATA				
						>11 NaOH	1-7 H <sub>2</sub> SO <sub>4</sub>			H <sub>2</sub> SO <sub>4</sub>	Cu	Florisil	LOT #		CONC. (PPM)	AMT ADDED (ML)			
MB	4	Herb	Dill	1000	1	3	10	clear							BASE				
BS	4			1000	1	3	10	clear							ACID				
MS															PCPB				
MSD															HERB	916-420-131	1 ppm	0.5	
BS	4																		
MS	P/B/T/D																		
MSD																			
JA59293 -1	3	Herb	yellow	960	1	3	10	clear											
-2	3		yellow	1000	1	3	10	clear											
-3	3		tan	970	1	3	10	clear											
															<b>SOLVENT DATA</b>				AMT
															LOT #	BRAND	X/ML		
															METH CHLOR	Baker	WV	8 X 60	
															HEXANE	A.B.E.	YV		
															ACETONE				
															ETH ETHER	Jayco	Raker		
															<b>REAGENT/FILTER MEDIA</b>				
															LOT #	BRAND			
															NODIUM SULF	916-420-131	Fisher		
															FILTER PAPER				
															1% H <sub>2</sub> SO <sub>4</sub>	916-420-131	Fischer Chem		
															1N NaOH	2906 K.I			
															COPPER				
															FLORISIL				
															SULFURIC ACID				

COMMENTS:

See back for instructions



# ACCUTEST.

## LIQUID/LIQUID EXTRACTION

EXTRACTION TIME: 7:30am Separatory Funnel

### Continuous Liquid Liquid

EXTRACT METHOD (circle one), SW846 3510C / EPA 600 series / EPA 500 series / CLP / other

SW846 3520C / CLP / other\_

EXTRACTION DATE: 10/20/10 ANALYST: AL/AW

METHOD: 1082 PCB Water Bath Temp (C) 42/60

**Nitrogen Evap Temp(C)**

Supervisor Review

Signature \_\_\_\_\_

Date \_\_\_\_\_

[illegible]

See back for instructions

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EXI-AU 10-402



**ACCUTEST.**

## LIQUID/LIQUID EXTRACTION

EXTRACTION TIME: 7:00 pm Separatory Funnel

EXTRACT METHOD (circle one) / SW846 3510C / EPA 600 series / EPA 500 series / CLP / other \_\_\_\_\_ SW846 3520C / CLP / other \_\_\_\_\_

EXTRACTION DATE: 10/20/10 ANALYST: AWI METHOD: 8081 test Water Bath Temp(C) 42/60 Nitrogen Evap Temp(C)

BATCH # 61462607

RACK# 465

**Supervisor Review**

Signature \_\_\_\_\_  
Date 10/20/10

Sample #	Sample Bottle #	Analysis Type	Sample Description	Sample Vol (ml) Oil Wt. (g)	pH Adjust (ml)		Final Extract		Extract Cleanup				Comments	SURROGATE SPIKE DATA			
					>11 NaOH	<2 H2SO4	Vol(ml)	Color	GPC	H2SO4	Cu	Florisil		LOT #	CONC. (PPM)	AMT ADDED (ML)	
MB	1	Pest	Dilute	1000			10	Clear						BASE			
BS	1			1000			10	Clear						ACID			
JAS8965-2 MS	1		Yellow	50			10	Clear						PPCB	GP	10-42-138	400 1
MSD	1		Yellow	50			10	Yellow						HERB			
BS								AW 10/20/94									
MS														WITNESS SIGN: AW			
MSD														MATRIX SPIKE DATA			
JAS8900-5	5	Pest	Clear	100			10	Clear									
-6	5		Clear	100			10	Clear						BASE			
JAS8965-2	1		Clear	50			10	Clear						ACID			
														PEST	GP	10-42-137	250ppm 1
														PCB			
														HERB			
														WITNESS SIGN: AW			
														SOLVENT DATA			
														METH CHLOR	D547	AW	760
														HEXANE	332670	Bulk	50
														ACETONE			
														ETH ETHER			
														REAGENT/FILTER MEDIA			
														SODIUM SULF	01094	Fish	
														FILTER PAPER	0130301	AW/SL	
														1:1 H2SO4			
														10N NaOH			
														COPPER	GP	10-42-127	AW/SL
														FLORISIL			
														SULFURIC ACID			

COMMENTS:

See back for instructions

75

EXT-SO 10-498

BAL ID B-7



ACCUTEST

## SOLID/LIQUID EXTRACTION

BATCH #

6046373-1

RACK#

CE-08

EXTRACTION TIME: 8:30am

Sonication

Pressurized Fluid (ASE)

Soxhlet

EXTRACTION METHOD (circle one)

SW846 3550B / CLP / other

SW846 3545 / CLP / other

SW846 3540C / other

Supervisor Review

EXTRACTION DATE: 10/27/10

ANALYST: CD

METHOD: 8089/257

Water Bath Temp(C) 42°

Nitrogen Evap Temp(C) 35°

Signature

Date

10/27/10

Sample #	pH	Sample Bottle #	Analysis Type	Sample Description	Sample Wet Wt. (g)	Decant		Final Extract		Extract Cleanup				Comments	SURROGATE SPIKE DATA			
						Y	N	Vol(ml)	Color	GPC	H2SO4	Cu	Florisil		LOT #	CONC. (PPM)	AMT ADDED (ML)	
MB			Post	Na2SO4	17.0			10	clear			/	/		BASE			
BS				Na2SO4	17.0			10	clear			/	/		ACID			
JA58900-3 MS		1	↓	mud	17.0		/	10	clear			/	/		PPCB	OP 10501-3	400ppb	1
MSD		1	↓	mud	17.0		/	10	clear			/	/		HERB			
BS																		
MS																		
MSD																		
WITNESS SIGN: CD																		
JA59573-1		1	Post	soil	17.0		/	10	yellow			/	/					
JA59635-1A		1		crushed concrete	17.0		/	10	yellow			/	/		BASE			
-2A		1		crushed concrete	17.0		/	10	yellow			/	/		ACID			
JA58900-1		1		mud	17.0		/	10	clear			/	/		PEST	OP 10501-10	250ppb	1
-2		1		mud	17.0		/	10	clear			/	/		PCB			
-3		1		mud	17.0		/	10	clear			/	/		HERB			
-4		1		mud	17.0		/	10	clear			/	/					
-5		1		soil	17.0		/	10	clear			/	/					
-6		1		soil	17.0		/	10	clear			/	/					
-7		1		soil	17.0		/	10	clear			/	/					
-8		1		soil	17.0		/	10	clear			/	/					
-9		1		soil	17.0		/	10	clear			/	/					
-10		2		mud	17.0		/	10	yellow			/	/		1:1 MC/ ACE	OP 10460-134	Hw/Baker	
-11		1		mud	17.0		/	10	yellow			/	/		METH CHLOR			
-12		1		mud	17.0		/	10	clear			/	/		HEXANE	SSI ESS	Baker	50
-14		2		mud	17.0		/	10	clear			/	/		ACETONE			
JA59686-6		2		soil	17.0		/	10	clear			/	/		ETH ETHER			
JA58675-17A		2		soil	17.0		/	10	yellow			/	/					
REAGENT/FILTER MEDIA																		
LOT #																		
BRAND																		
SODIUM SULF		OP 010-98													Fisher			
FILTER PAPER		0000101													Abelstrom			
COPPER		OP 10460-67													Fidrich			
FLORISIL		9414710													varian			
SULFURIC ACID																		

COMMENTS:

up 60



EXT-SO 10498

BAL ID B-7



ACCUTEST

## SOLID/LIQUID EXTRACTION

EXTRACTION TIME: 8:30am

Sonication

Pressurized Fluid (ASE)

Soxhlet

EXTRACTION METHOD (circle one)

SW846 3550B / CLP / other

SW846 3545 / CLP / other

SW846 3540C / other

EXTRACTION DATE: 10/27/0

ANALYST: GO

METHOD: 8082 PCB

Water Bath Temp(C) 42

Nitrogen Evap Temp(C)

BATCH #

G46374-1

RACK #

GE-70

Supervisor Review

Signature

Date

10/27/0

Sample #	pH	Sample Bottle #	Analysis Type	Sample Description	Sample Wet Wt. (g)	Decant		Final Extract		Extract Cleanup				Comments	SURROGATE SPIKE DATA			
						Y	N	Vol(ml)	Color	GPC	H2SO4	Cu	Florisil		LOT #	CONC. (PPM)	AMT ADDED (ML)	
MB			PCB	Na2SO4	17.0			10	clear	/	/			BASE				
BS				Na2SO4	17.0			10	clear	/	/			ACID				
JA58900-3 MS		1		mud	17.0	/		10	clear	/	/			PPCB	CP 10-SOI-3	400ppb	1	
MSD		1		mud	17.0	/		10	clear	/	/			HERB				
BS														WITNESS SIGN: ED				
MS														MATRIX SPIKE DATA				
MSD														AMT ADDED (ML)				
1 JA59573-1		1	PCB	soil	17.0	/		10	clear	/	/			LOT # CONC.				
2 JA59635-1A		1		crushed concrete	17.0	/		10	yellow	/	/			BASE				
3 -2A		1		crushed concrete	17.0	/		10	yellow	/	/			ACID				
4 JA58900-1		1		mud	17.0	/		10	clear	/	/			PEST				
5 -2		1		mud	17.0	/		10	clear	/	/			PCB	CP 10-SOI-4	2ppm	1	
6 -3		1		mud	17.0	/		10	clear	/	/			HERB				
7 -4		1		mud	17.0	/		10	clear	/	/			WITNESS SIGN: ED				
8 -7		1		soil	17.0	/		10	clear	/	/			SOLVENT DATA				
9 -8		1		soil	17.0	/		10	clear	/	/			AMT				
10 -9		1		soil	17.0	/		10	clear	/	/			LOT # BRAND XML				
11 -10		2		mud	17.0	/		10	clear	/	/			1:1 MC/ACE	CP 1042134	Hw/Baker		
12 -11		1		mud	17.0	/		10	clear	/	/			METH CHLOR				
13 -12		1		mud	17.0	/		10	clear	/	/			HEXANE	SSI ESS	Baker	SO	
14 -14		2		mud	17.0	/		10	clear	/	/			ACETONE				
15 JA5856-33 RU		1		soil	17.0	/		10	yellow	/	/			ETH ETHER				
16 JA59544-3		1		soil	17.0	/		10	yellow	/	/			REAGENT/FILTER MEDIA				
17 -12		1		soil	17.0	/		10	yellow	/	/			LOT # BRAND				
18 -33		1		mud	17.0	/		10	yellow	/	/			SODIUM SULF	CP 01098	Fisher		
19 JA59686-6		2		soil	17.0	/		10	yellow	/	/			FILTER PAPER	0200101	Ahlstrom		
20 JA59195-1		1		mud	17.0	/		10	yellow	/	/			COPPER	CP 10420127	Aldrich		
COMMENTS: up! GO														FLORISIL				
														SULFURIC ACID				
														SO4FOS Baker				

COMMENTS:

See back for instructions

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10

10.85

EXT-SO 10-462

BAL ID 837


**ACCUTEST.**

EXTRACTION TIME: 8:30 AM

**EXTRACTION METHOD** (circle one)

EXTRACTION DATE: 10/27/10

## Sonication

SW846 3550B / CLP / other

## SOLID/LIQUID EXTRACTION

### Pressurized Fluid (ASE)

SWB46 3545 / CLP / other

Water Bath Temp(C) 85

## Soxhlet

SW846 3540C / other

Nitrogen Evap Temp(C) 25

BATCH #

6046377-1

RACK#	
1	2
3	4
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47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
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95	96
97	98
99	100

GE-4

~~Supervisor Review~~

Signature \_\_\_\_\_

Date 10/27/10

[illegible]

47

See back for instructions

10.8.6 01

EXT-SO/0-462

BAL ID

B-37



ACCUTEST

## SOLID/LIQUID EXTRACTION

BATCH #

RACK #

EXTRACTION TIME: 10:00 AM

Sonication

Pressurized Fluid (ASE)

Soxhlet

Supervisor Review

EXTRACTION METHOD (circle one)

SW846 3540C

CLP / other

SW846 3545 / CLP / other

SW846 3540C / other

Signature

EXTRACTION DATE: 10/30/10

ANALYST: GP

METHOD: Herb

Water Bath Temp(C) 88°

Nitrogen Evap Temp(C) 35°

Date

10/30/10

Sample #	pH	Sample Bottle #	Analysis Type	Sample Description	Sample Wet Wt. (g)	Decant		Final Extract		Extract Cleanup				Comments	SURROGATE SPIKE DATA			
						Y	N	Vol(ml)	Color	GPC	H2SO4	Cu	Florisil		LOT #	CONC. (PPM)	AMT ADDE (ML)	
MB 1			Herb	Herb	35.0			10	Clear						BASE			
BS 1					35.0			10	Clear						ACID			
JA58900-3 MS		2		mud	35.1			10	Yellow						PPCB			
MSD		2		mud	35.1			10	Yellow						HERB	op10-410-M1	10/1/10	0.5
BS 1																		
MS 19/30/10																		
MSD																		
1 JA58900-1 RX		1	Herb	Soil/mud	35.1			10	Clear									
2 -2 RX		2		mud	35.0			10	Clear						BASE			
3 -3 RX		2		mud	35.3			10	Yellow						ACID			
4 -4 RX		2		mud	35.0			10	Yellow						PEST			
5 -7 RX		1		Soil	35.2			10	Clear						PCB			
6 -8 RX		1		Soil/mud	35.2			10	Clear						HERB	op10-410-M1	Vartus	0.5
7 -9 RX		2		Soil/mud	35.0			10	Clear									
8 -10 RX		2		Soil/mud	35.0			10	Yellow									
9 -11 RX		1		Soil/mud	35.0			10	Yellow									
10 -12 RX		2		Soil/mud	35.0			10	Clear									
11 -14 RX		1		Soil/mud	35.1			10	Clear									
12 JA59218-13P		1		Grainy	30.2			10	Yellow									
13 JA59922-1		1		mud	5.0			10	Clear					*	HEXANE			
14															ACETONE			
15															ETH ETHER			
16																		
17																		
18																		
19																		
20																		

COMMENTS:

\* Limited sample; weight was reduced reduced.

See back for instructions

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EXT-SO 10462

BAL ID B-7



ACCUTEST

## SOLID/LIQUID EXTRACTION

BATCH # 9C46441-2 RACK# 6E-49

EXTRACTION TIME: 5:30pm

Sonication

Pressurized Fluid (ASE)

Soxhlet

Supervisor Review

EXTRACTION METHOD (circle one)

SW846 3550B / CLP / other

SW846 3545 / CLP / other

SW846 3540C / other

Signature

EXTRACTION DATE: 11/12/10

ANALYST: G7

METHOD: Herb

Water Bath Temp(C) 88

Nitrogen Evap Temp(C) 35°

Date

Sample #	pH	Sample Bottle #	Analysis Type	Sample Description	Sample Wet Wt. (g)	Decant		Final Extract		Extract Cleanup				Comments	SURROGATE SPIKE DATA			
						Y	N	Vol(ml)	Color	GPC	H2SO4	Cu	Florisil		LOT #	CONC. (PPM)	AMT ADDED (ML)	
MB 2			Herb	Acidified	35.0			10	clear						BASE			
BS 2			↓	Acidified	35.0			10	clear						ACID			
MS															PPCB			
MSD															HERB	920-131	10ppm	0.5
BS 1/12/10															WITNESS SIGN:			G7
MS 1/12/10																MATRIX SPIKE DATA		
MSD																LOT #	CONC.	AMT ADDED (ML)
1 JAG1290-2			Herb						matrix changed to oil 1/12/10						BASE			
2 JAG1292-1		4	Herb	mud	35.3			10	yellow						ACID			
3 -2		1	↓	mud	35.2			10	yellow						PEST			
4															PCB			
5															HERB	920-141	Vermont	0.5
6															WITNESS SIGN:			G7
7															SOLVENT DATA			
8															LOT #	BRAND	AMT X/ML	
9															1:1 MCI/ACE	920-134	the Baker	100
10															METH CHLOR	DEPT	the Baker	200
11															HEXANE			
12															ACETONE			
13															ETH ETHER			
14															REAGENT/FILTER MEDIA			
15															LOT #	BRAND		
16															SODIUM SULF.	920-136	Fisher	
17															FILTER PAPER			
18															COOPER	381 Hal G26054	Baker	
19															FLORISIL			
20															SULFURIC ACID			

COMMENTS:

See back for instructions

EXT-SO 10462

BAL ID B37



ACCUTEST.

## SOLID/LIQUID EXTRACTION

BATCH # 6441-3 RACK#

EXTRACTION TIME: 7am

Sonication

Pressurized Fluid (ASE)

Soxhlet

Supervisor Review

EXTRACTION METHOD (circle one)

SW846 3550B / CLP / other

SW846 3545 / CLP / other

SW846 3540C / other

Signature

EXTRACTION DATE: 11/16/10

ANALYST: AL

METHOD: Herb

Water Bath Temp(C) 80 Nitrogen Evap Temp(C) 35

Date 11/16/10

Sample #	pH	Sample Bottle #	Analysis Type	Sample Description	Sample Wet Wt. (g)	Decant		Final Extract		Extract Cleanup				Comments	SURROGATE SPIKE DATA			
						Y	N	Vol(ml)	Color	GPC	H2SO4	Cu	Florisil		LOT #	CONC. (PPM)	AMT ADDED (ML)	
MB 3			Herb	Na2SO4	350			10	clear						BASE			
BS 3			Herb	Na2SO4	350			10	clear						ACID			
MS															PPCB			
MSD															HERB	op	10420131	10 0.5
BS 11																		
MS 11/16/10																		
MSD																		
1 JA61558-2		1	Herb	Soil	35.0		1	10	brown									
2 -4		1	Herb	Soil	35.0		1	10	brown									
3															BASE			
4															ACID			
5															PEST			
6															PCB			
7															HERB	op	1042041	various 0.5
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

COMMENTS:

See back for instructions

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