



GC/MS Volatiles

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Raw Data

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9

## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100542.D Vial: 7  
Acq On : 25 Oct 2010 8:00 pm Operator: kristis  
Sample : ja58750-1 Inst : MSH  
Misc : ms3472,eh4373,5.02,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:42 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:41:19 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

## System Monitoring Compounds

3) Hexanol	8.18	56	3587899	35.20	ppm	-0.02
Spiked Amount	50.000		Recovery	=	70.40%	

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration

H100542.D M4362EPG.M Wed Nov 03 16:42:23 2010 MSH

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## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100542.D

Vial: 7

Acq On : 25 Oct 2010 8:00 pm

Operator: kristis

Sample : ja58750-1

Inst : MSH

Misc : ms3472,eh4373,5.02,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:42 2010

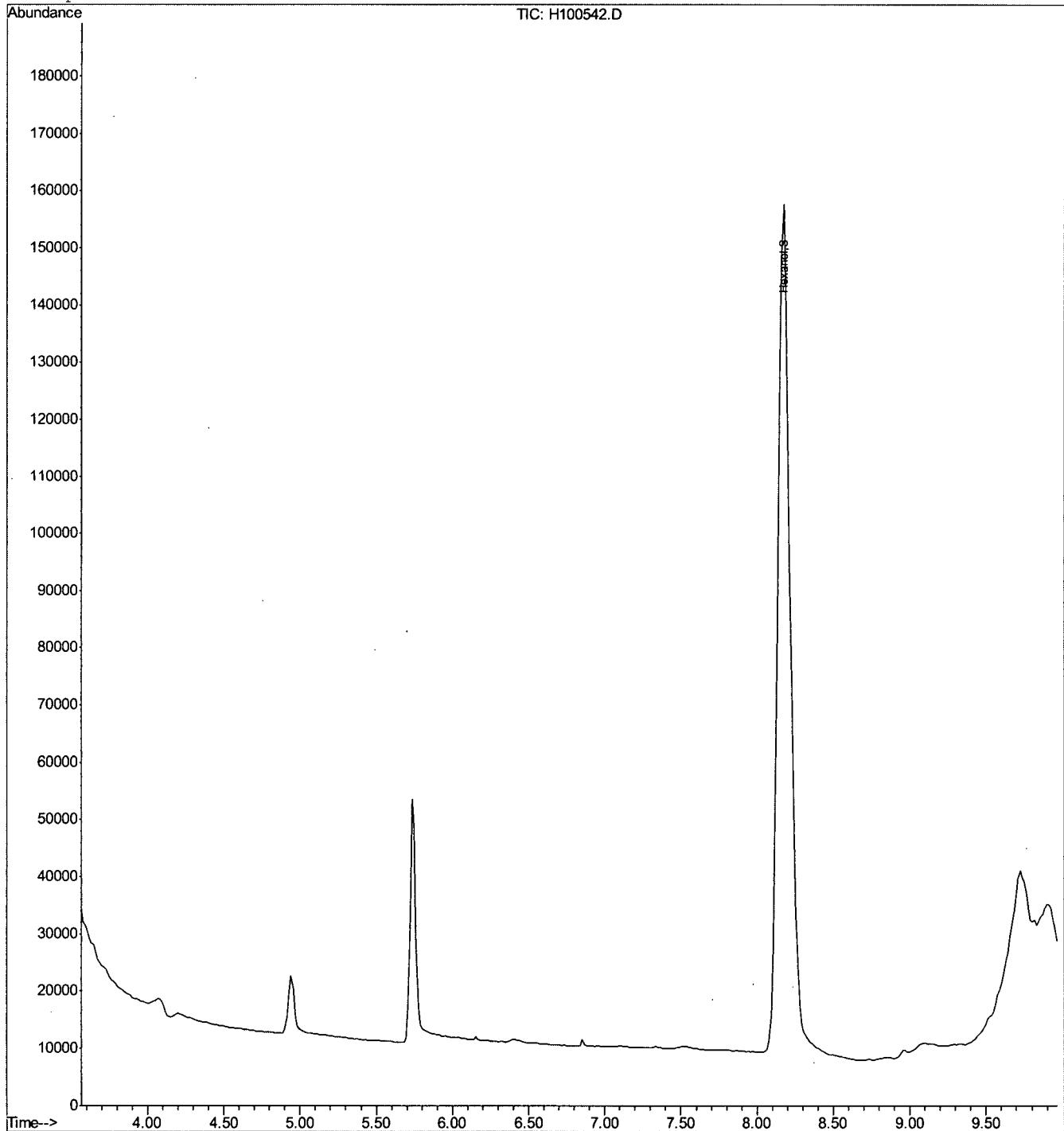
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:41:19 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100543.D Vial: 8  
Acq On : 25 Oct 2010 8:15 pm Operator: kristis  
Sample : ja58750-2 Inst : MSH  
Misc : ms3472,eh4373,5.03,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Oct 25 20:20 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Thu Oct 21 08:16:09 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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## System Monitoring Compounds

3) Hexanol	8.04	56	5522973	54.19	ppm	0.11
Spiked Amount	50.000		Recovery	=	108.38%	

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration

H100543.D M4362EPG.M Wed Nov 03 16:42:45 2010 MSH

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## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100543.D

Vial: 8

Acq On : 25 Oct 2010 8:15 pm

Operator: kristis

Sample : ja58750-2

Inst : MSH

Misc : ms3472,eh4373,5.03,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 25 20:20 2010

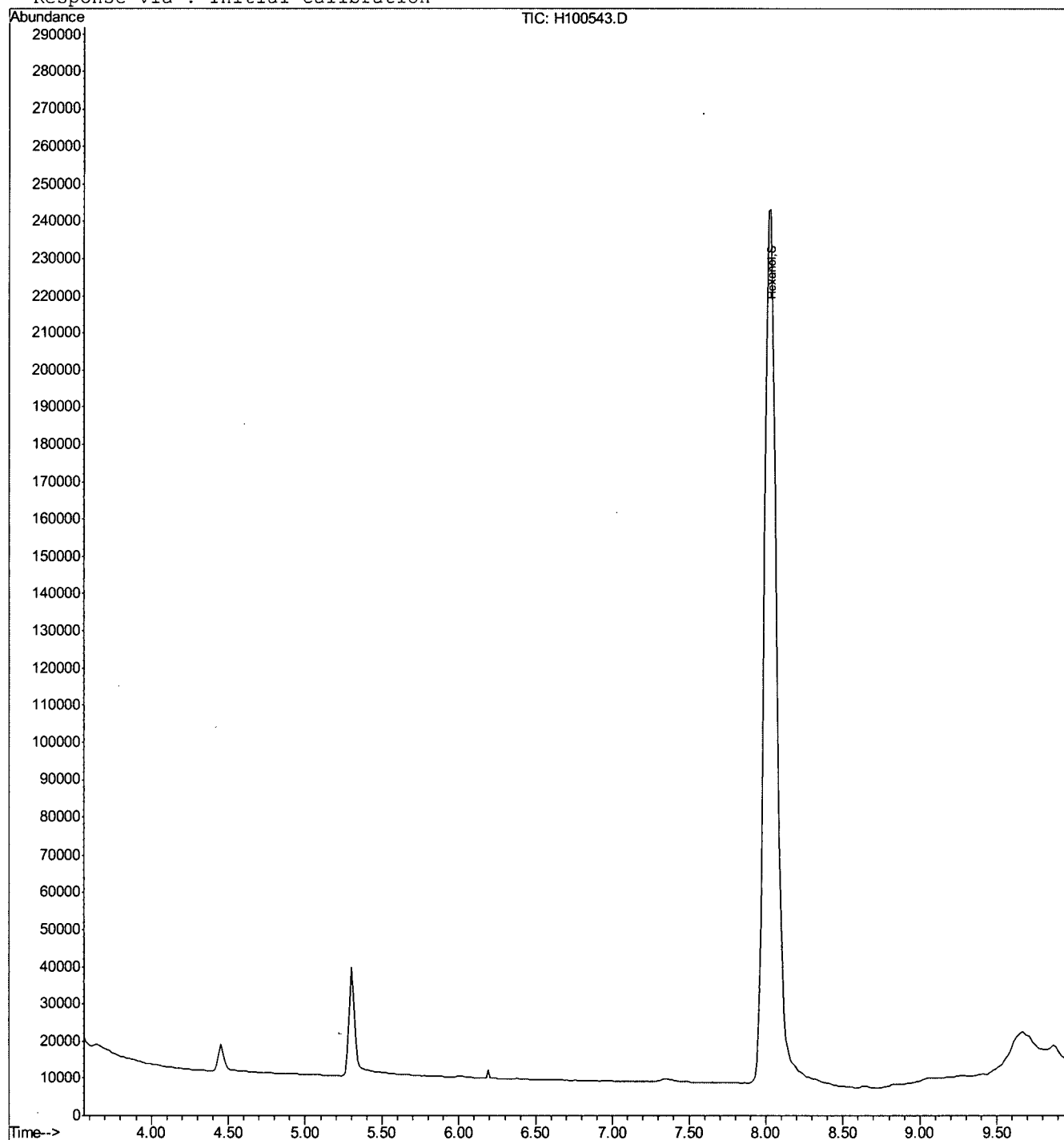
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:41:19 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100544.D Vial: 9  
Acq On : 25 Oct 2010 8:31 pm Operator: kristis  
Sample : ja58750-3 Inst : MSH  
Misc : ms3472,eh4373,5.04,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Oct 25 20:34 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Thu Oct 21 08:16:09 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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## System Monitoring Compounds

3) Hexanol	8.03	56	4576746	44.90	ppm	0.10
Spiked Amount	50.000		Recovery	=	89.80%	

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration

H100544.D M4362EPG.M Wed Nov 03 16:43:03 2010 MSH

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## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100544.D

Vial: 9

Acq On : 25 Oct 2010 8:31 pm

Operator: kristis

Sample : ja58750-3

Inst : MSH

Misc : ms3472,eh4373,5.04,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 25 20:34 2010

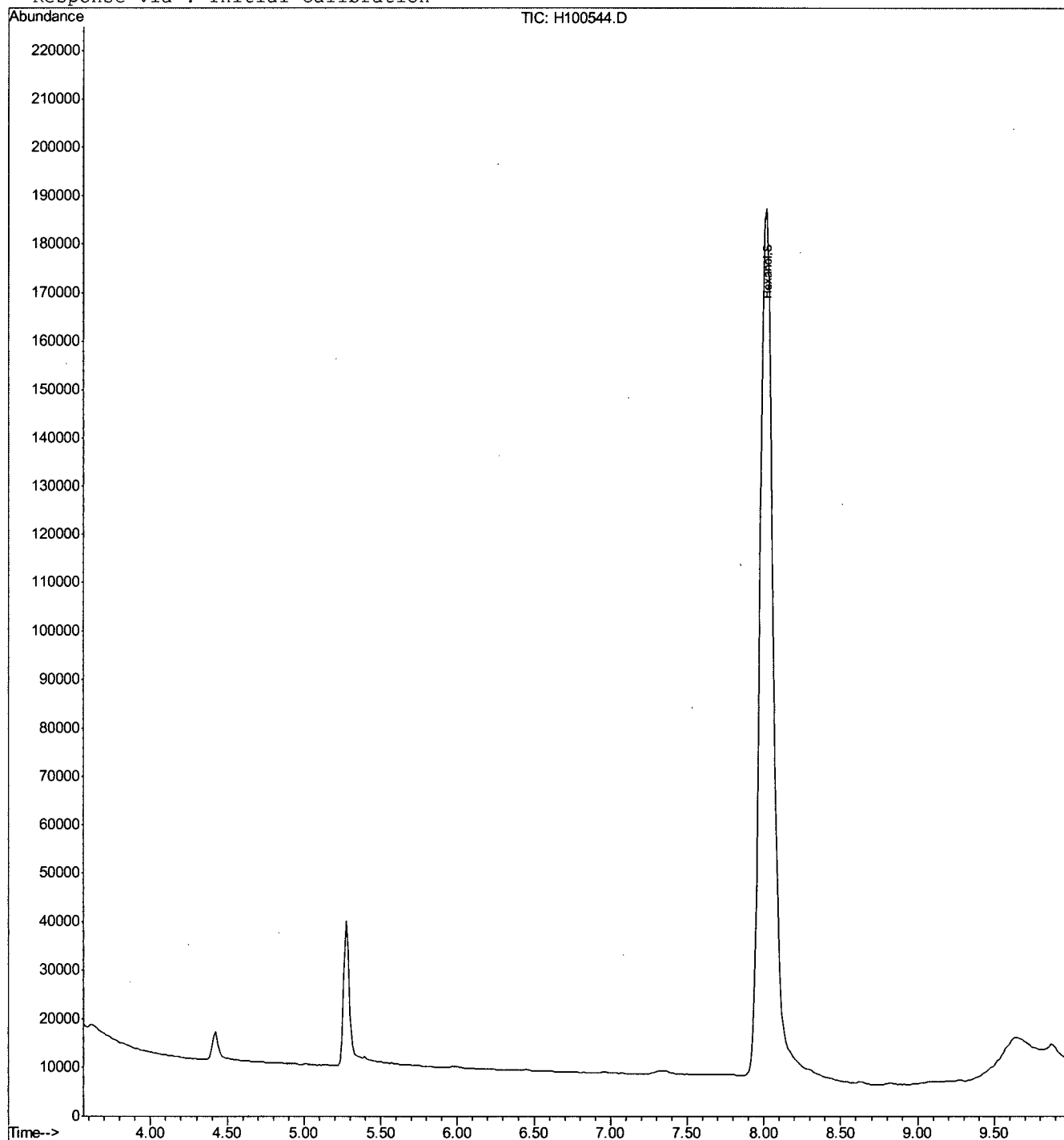
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:41:19 2010

Response via : Initial Calibration



H100544.D M4362EPG.M

Wed Nov 03 16:43:03 2010

MSH

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## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100545.D Vial: 10  
Acq On : 25 Oct 2010 9:11 pm Operator: kristis  
Sample : ja58750-4 Inst : MSH  
Misc : ms3472,eh4373,5.07,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:43 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:41:19 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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## System Monitoring Compounds

3) Hexanol	8.16	56	5598977	54.93	ppm	-0.04
Spiked Amount	50.000		Recovery	=	109.86%	

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration

H100545.D M4362EPG.M Wed Nov 03 16:43:32 2010 MSH

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## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100545.D

Vial: 10

Acq On : 25 Oct 2010 9:11 pm

Operator: kristis

Sample : ja58750-4

Inst : MSH

Misc : ms3472,eh4373,5.07,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:43 2010

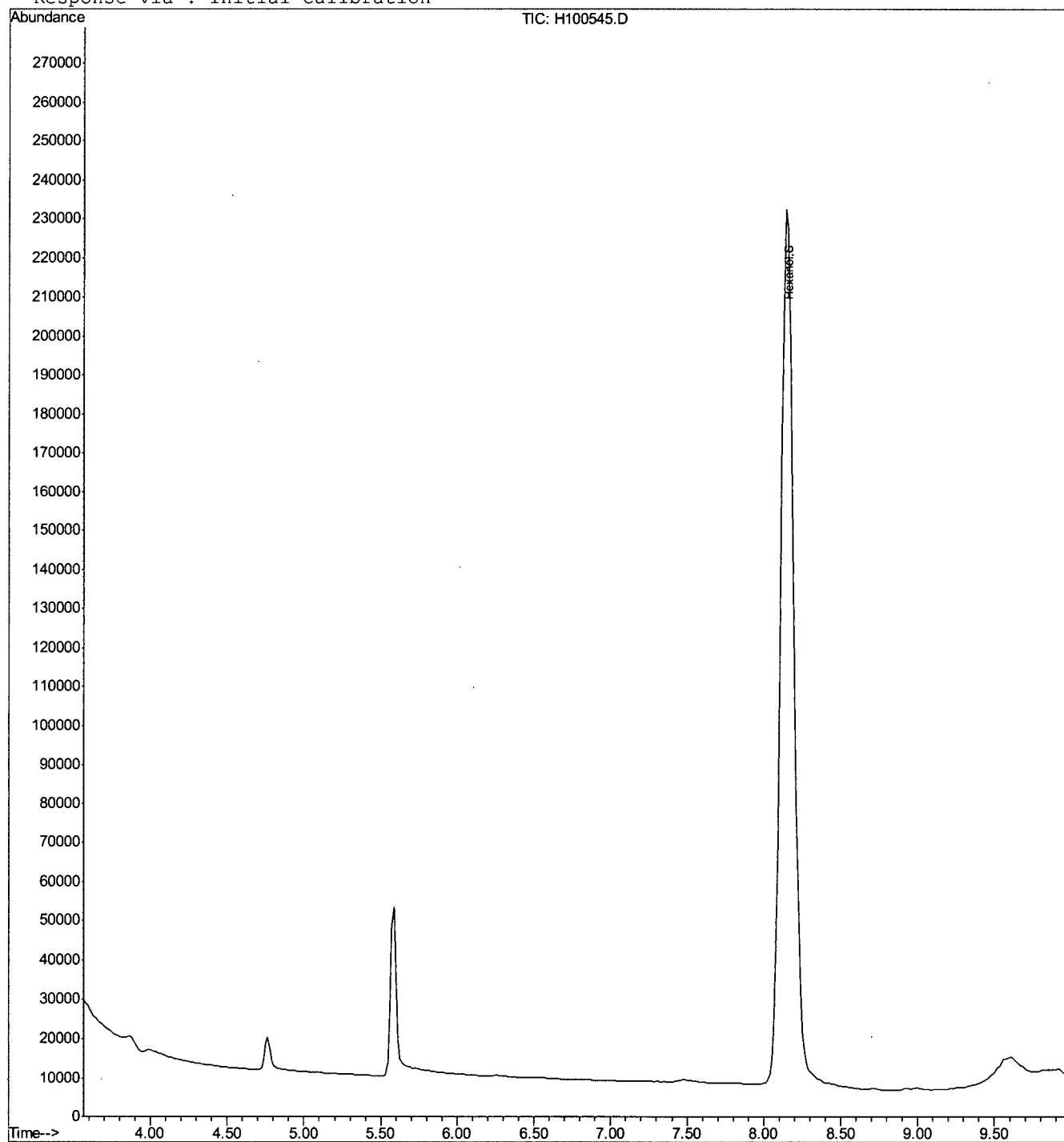
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:41:19 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100546.D Vial: 11  
Acq On : 25 Oct 2010 9:19 pm Operator: kristis  
Sample : ja58750-5 Inst : MSH  
Misc : ms3472,eh4373,5.05,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:43 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Thu Oct 21 08:16:09 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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## System Monitoring Compounds

3) Hexanol	8.12	56	5796688	56.87	ppm	0.19
Spiked Amount	50.000			Recovery	=	113.74%

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration

H100546.D M4362EPG.M Wed Nov 03 16:44:00 2010 MSH

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## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100546.D

Vial: 11

Acq On : 25 Oct 2010 9:19 pm

Operator: kristis

Sample : ja58750-5

Inst : MSH

Misc : ms3472,eh4373,5.05,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:43 2010

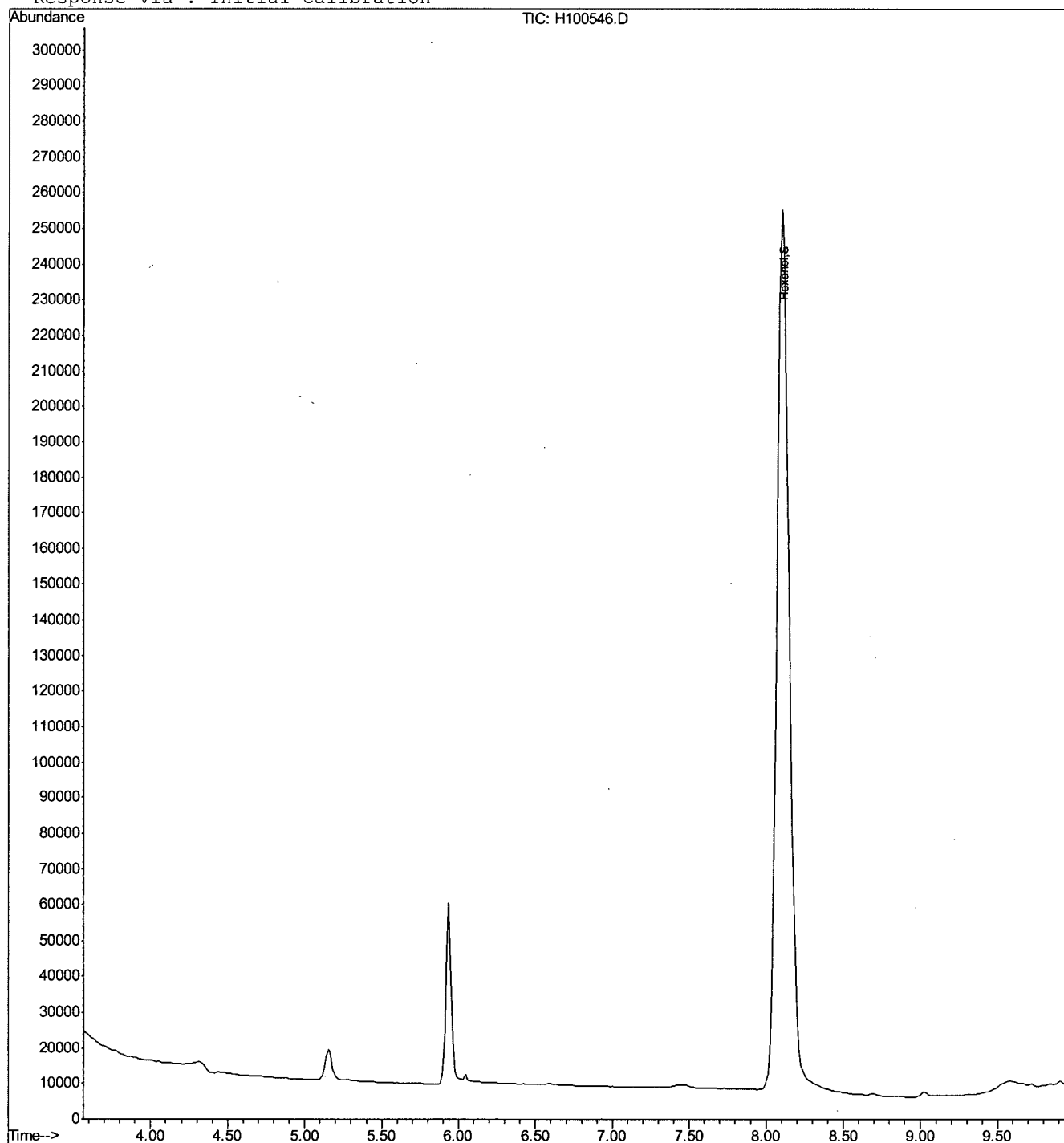
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:41:19 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100547.D Vial: 12  
Acq On : 25 Oct 2010 9:34 pm Operator: kristis  
Sample : ja58750-6 Inst : MSH  
Misc : ms3472,eh4373,5.06,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:44 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:41:19 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

-----  
System Monitoring Compounds

3) Hexanol	8.17	56	6316707	61.97	ppm	-0.03
Spiked Amount	50.000			Recovery	=	123.94%

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration

H100547.D M4362EPG.M Wed Nov 03 16:44:23 2010 MSH

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## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100547.D

Vial: 12

Acq On : 25 Oct 2010 9:34 pm

Operator: kristis

Sample : ja58750-6

Inst : MSH

Misc : ms3472,eh4373,5.06,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:44 2010

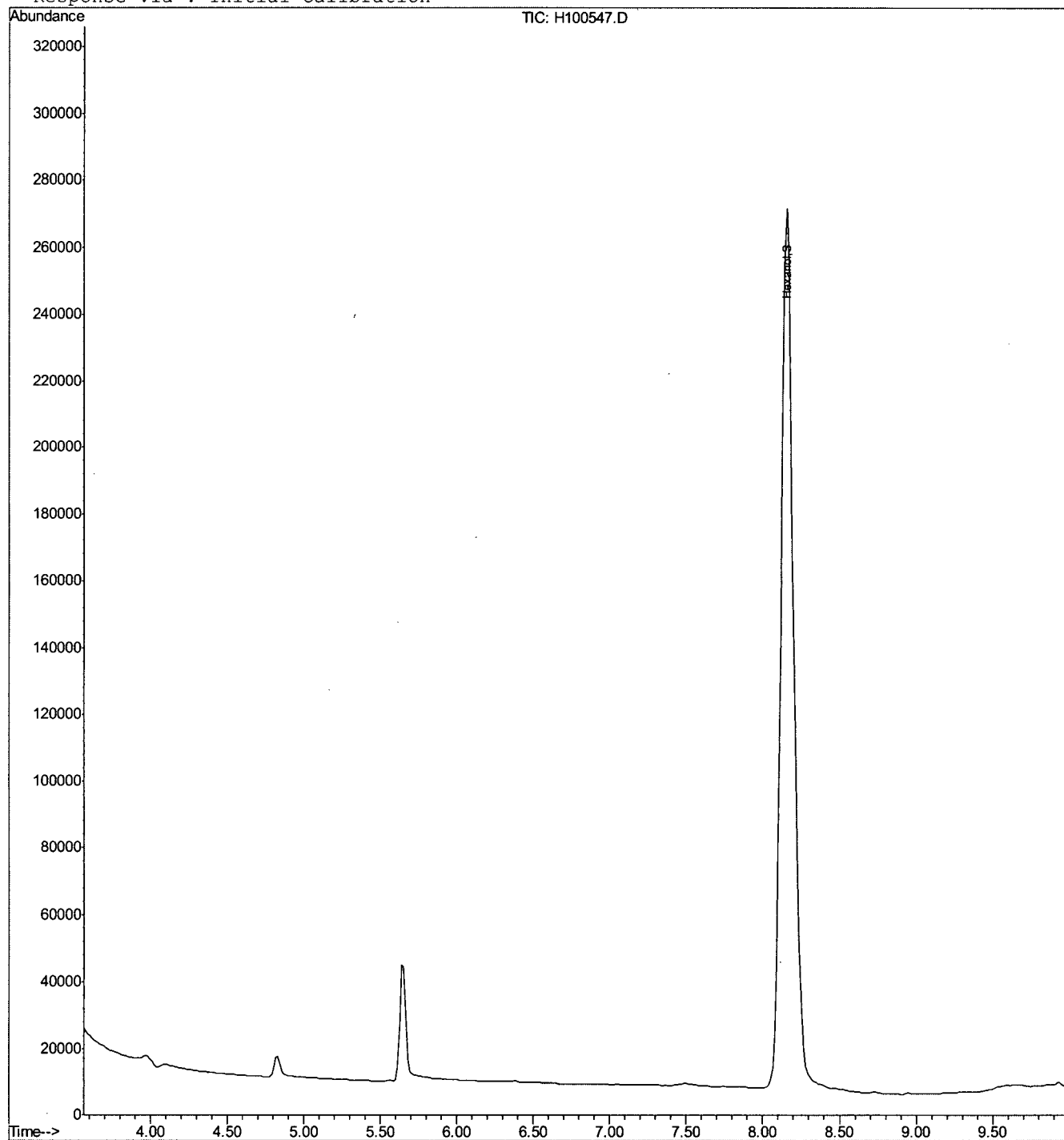
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:41:19 2010

Response via : Initial Calibration



H100547.D M4362EPG.M

Wed Nov 03 16:44:24 2010

MSH

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## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100548.D Vial: 13  
Acq On : 25 Oct 2010 9:50 pm Operator: kristis  
Sample : ja58750-7 Inst : MSH  
Misc : ms3472,eh4373,5.00,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Oct 25 21:55 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Thu Oct 21 08:16:09 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

## System Monitoring Compounds

3) Hexanol	8.13	56	4866586	47.75	ppm	0.20
Spiked Amount	50.000		Recovery	=	95.50%	

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration

H100548.D M4362EPG.M Wed Nov 03 16:44:42 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100548.D

Vial: 13

Acq On : 25 Oct 2010 9:50 pm

Operator: kristis

Sample : ja58750-7

Inst : MSH

Misc : ms3472,eh4373,5.00,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 25 21:55 2010

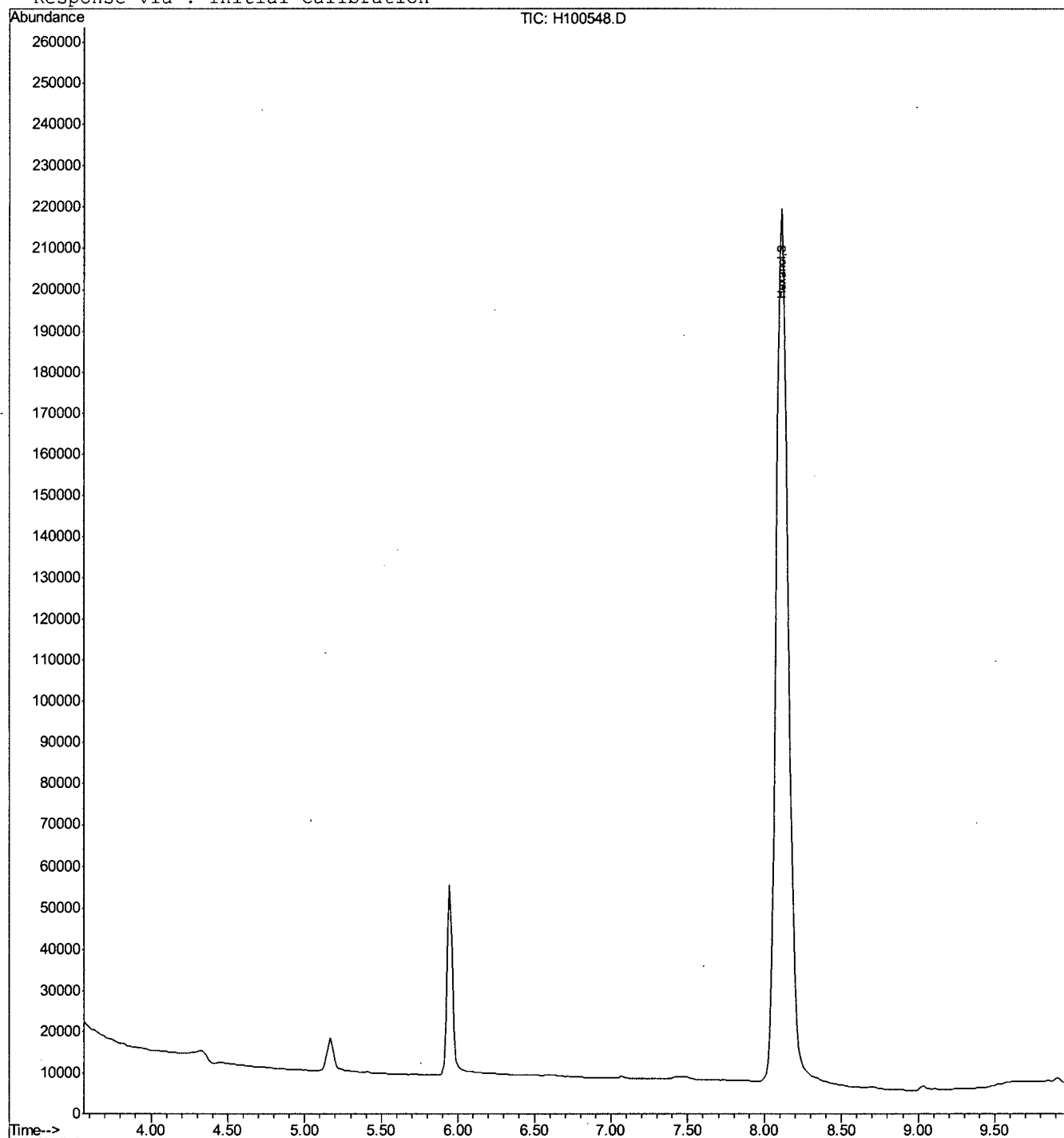
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:41:19 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100549.D Vial: 14  
Acq On : 25 Oct 2010 10:05 pm Operator: kristis  
Sample : ja58750-8 Inst : MSH  
Misc : ms3472,eh4373,5.08,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:45 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:41:19 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

## System Monitoring Compounds

3) Hexanol	8.18	56	6123710	60.08	ppm	-0.02
Spiked Amount	50.000			Recovery	=	120.16%

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration

H100549.D M4362EPG.M Wed Nov 03 16:45:10 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100549.D

Vial: 14

Acq On : 25 Oct 2010 10:05 pm

Operator: kristis

Sample : ja58750-8

Inst : MSH

Misc : ms3472,eh4373,5.08,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:45 2010

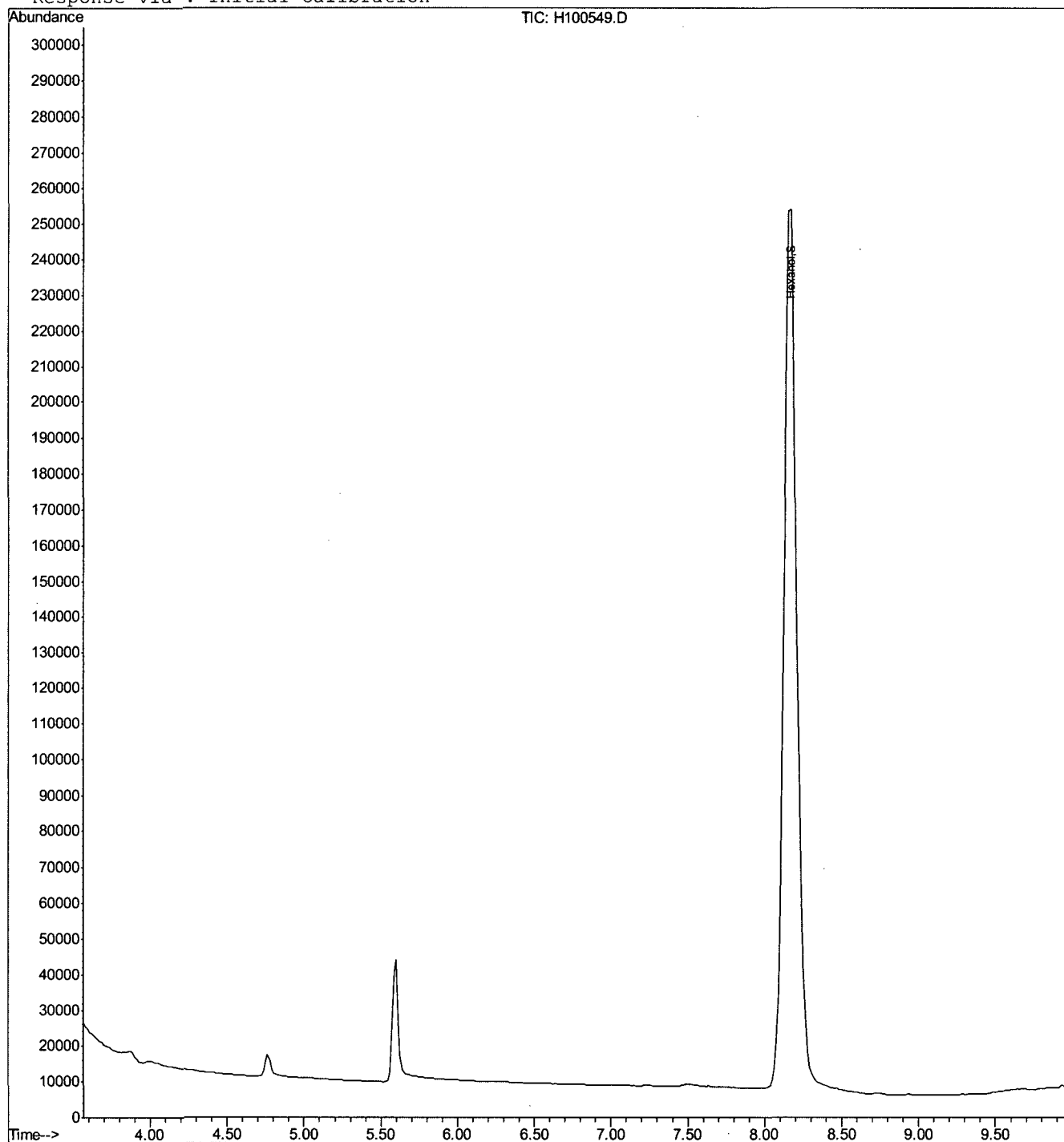
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:41:19 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100571.D Vial: 4  
Acq On : 26 Oct 2010 12:18 pm Operator: kristis  
Sample : ja58750-9 Inst : MSH  
Misc : ms3472,eh4373,5.07,,,1,1 Multiplr: 1308.00  
MS Integration Params: LSCINT.E  
Quant Time: Oct 26 12:21 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Thu Oct 21 08:16:09 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	7.87	56	3545409	34.78	ppm	-0.06
Spiked Amount	50.000		Recovery	=	69.56%	
Target Compounds						Qvalue

6.19  
**6**-----  
(#) = qualifier out of range (m) = manual integration

H100571.D M4362EPG.M Wed Nov 03 17:03:46 2010 MSH

Page 1



## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100571.D

Vial: 4

Acq On : 26 Oct 2010 12:18 pm

Operator: kristis

Sample : ja58750-9

Inst : MSH

Misc : ms3472,eh4373,5.07,,,1,1

Multiplr: 1308.00

MS Integration Params: LSCINT.E

Quant Time: Oct 26 12:21 2010

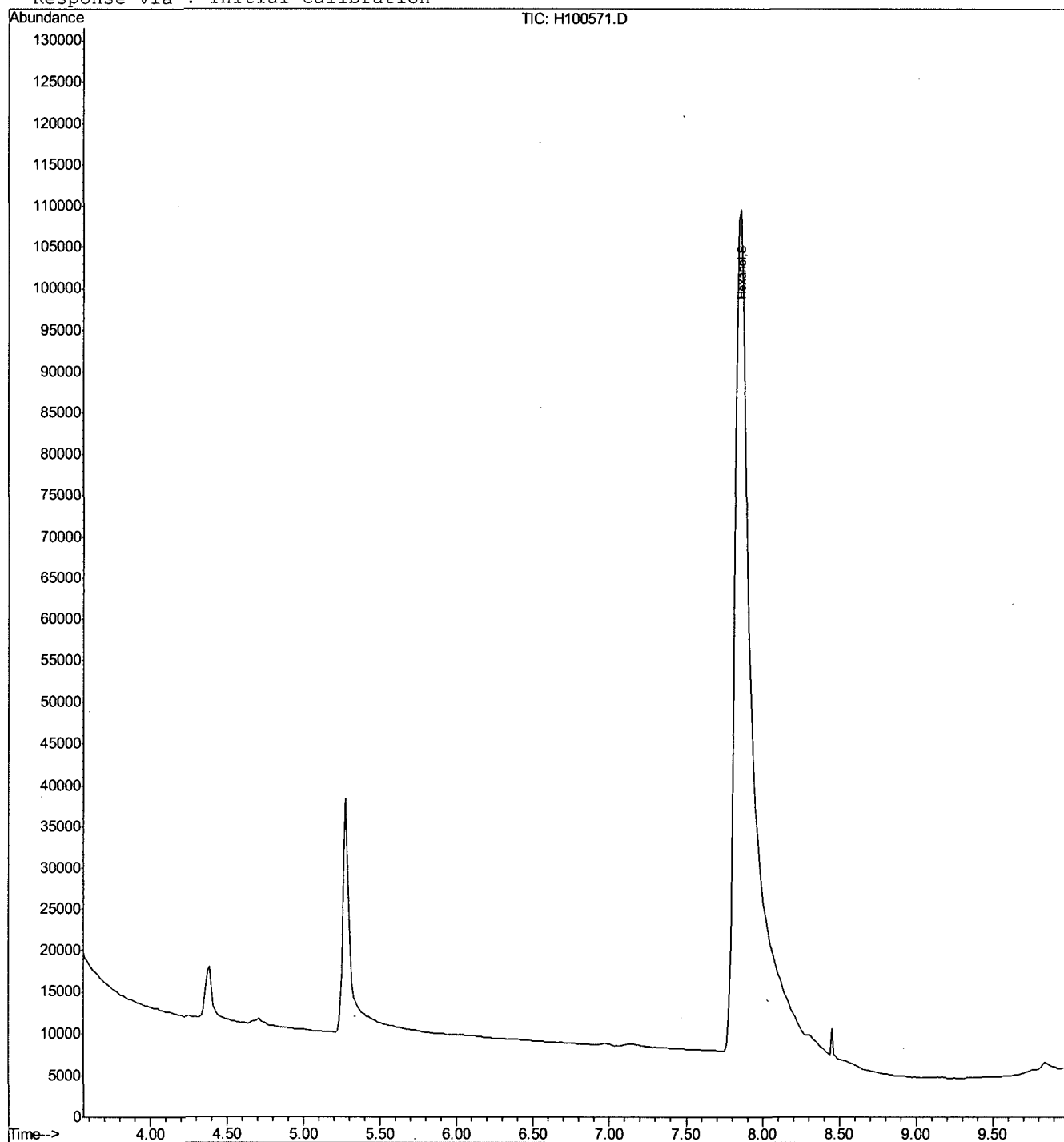
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:56:31 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100563.D Vial: 5  
Acq On : 26 Oct 2010 10:13 am Operator: kristis  
Sample : ja58750-10 Inst : MSH  
Misc : ms3472,eh4373,5.01,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:57 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:56:31 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.13	56	9362928	91.86	ppm	-0.06
Spiked Amount	50.000		Recovery	=	183.72%	
Target Compounds						Qvalue

6.1.10  
**6**

-----  
(#) = qualifier out of range (m) = manual integration  
H100563.D M4362EPG.M Wed Nov 03 16:57:41 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100563.D

Vial: 5

Acq On : 26 Oct 2010 10:13 am

Operator: kristis

Sample : ja58750-10

Inst : MSH

Misc : ms3472,eh4373,5.01,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:57 2010

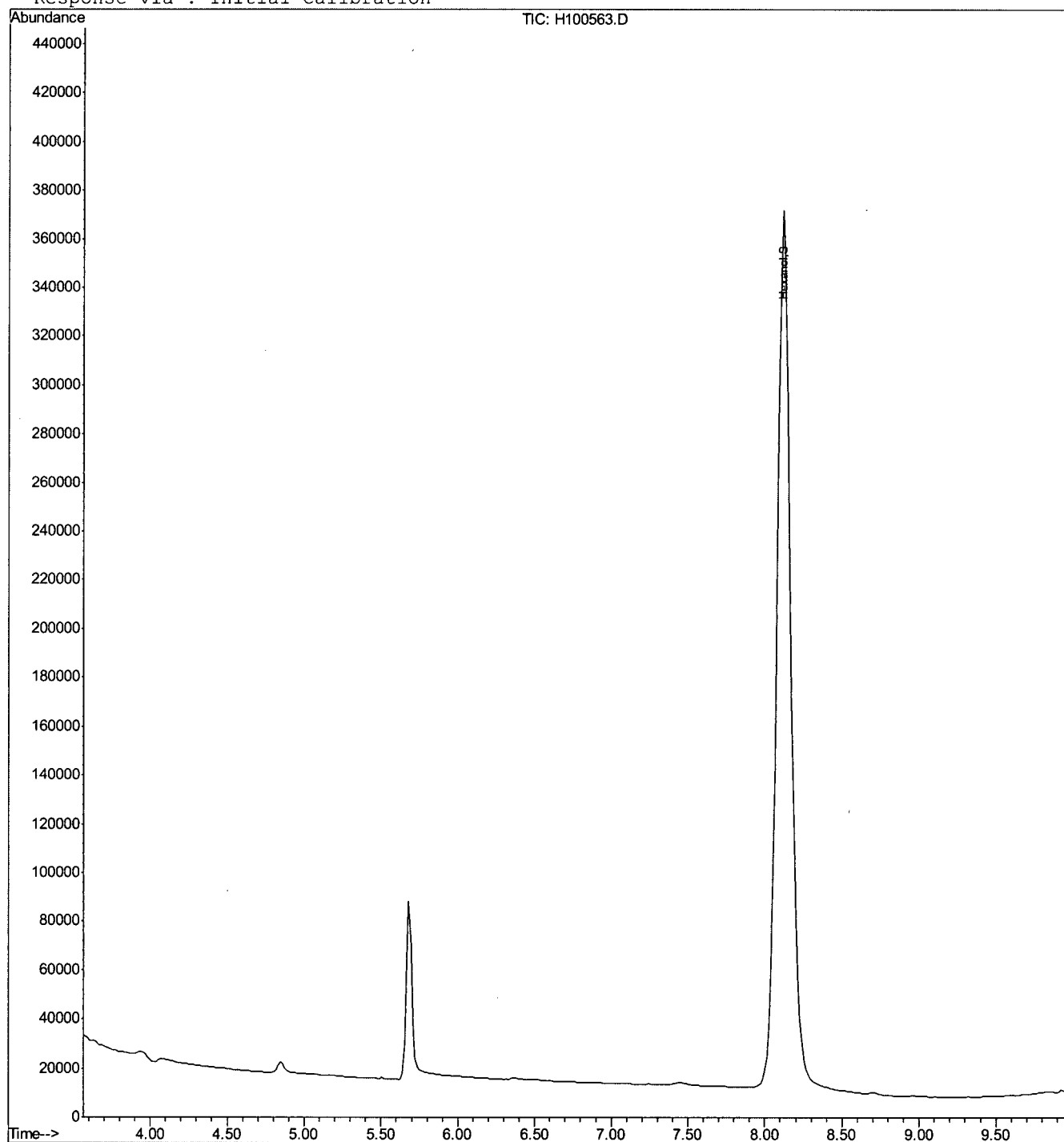
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:56:31 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100541.D Vial: 6  
Acq On : 25 Oct 2010 7:45 pm Operator: kristis  
Sample : ja58750-11 Inst : MSH  
Misc : ms3472,eh4373,5.00,,,1,1 Multiplr: 1198.00  
MS Integration Params: LSCINT.E  
Quant Time: Oct 25 19:53 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Thu Oct 21 08:16:09 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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## System Monitoring Compounds

3) Hexanol	8.00	56	4468079	43.84	ppm	0.07
Spiked Amount	50.000		Recovery	=	87.68%	

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration

H100541.D M4362EPG.M Wed Nov 03 19:06:13 2010 MSH

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100541.D

Vial: 6

Acq On : 25 Oct 2010 7:45 pm

Operator: kristis

Sample : ja58750-11

Inst : MSH

Misc : ms3472,eh4373,5.00,,,1,1

Multiplr: 1198.00

MS Integration Params: LSCINT.E

Quant Time: Oct 25 19:53 2010

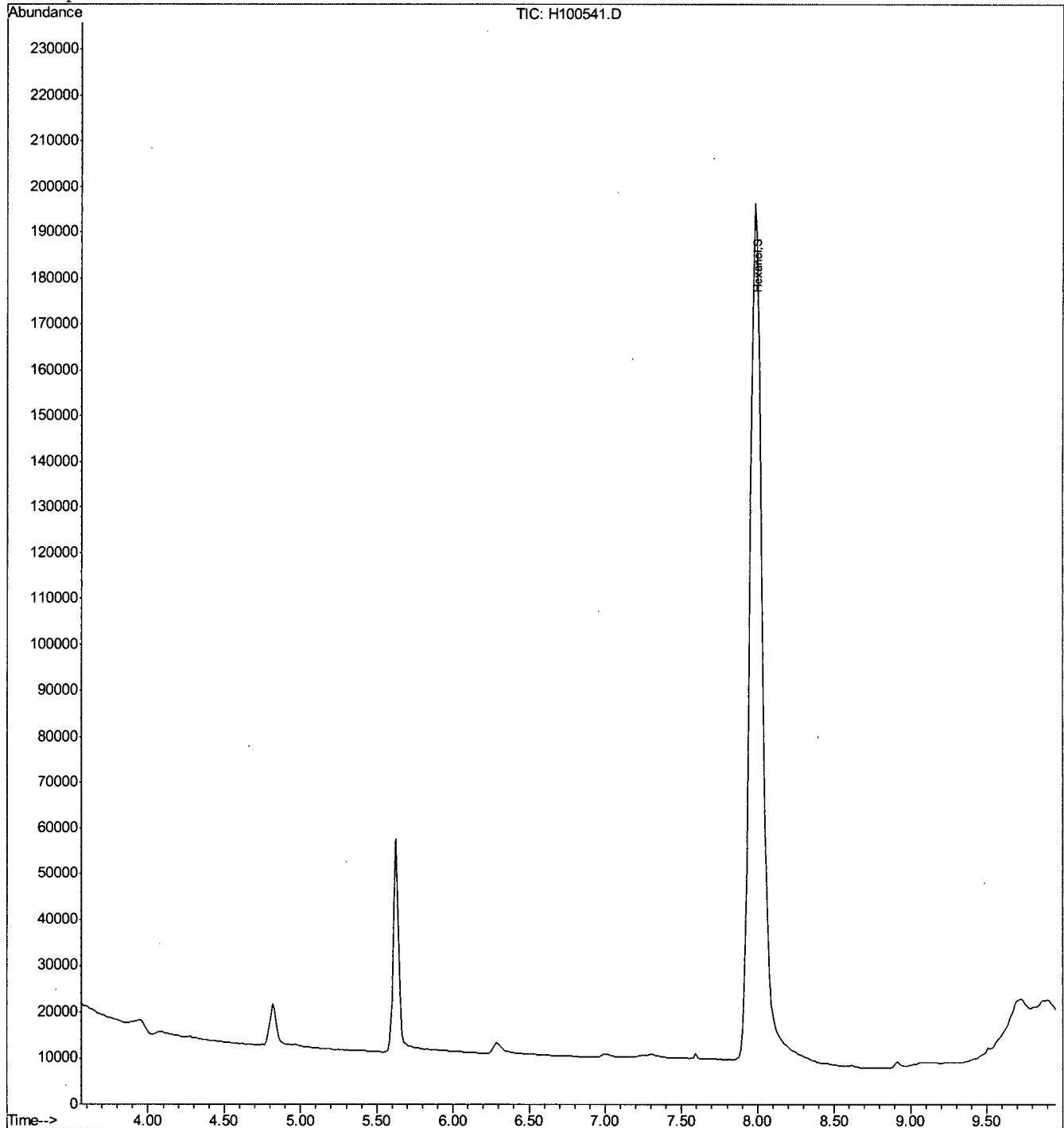
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 17:53:38 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100564.D Vial: 6  
Acq On : 26 Oct 2010 10:32 am Operator: kristis  
Sample : ja58750-12 Inst : MSH  
Misc : ms3472,eh4373,5.04,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:58 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:56:31 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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## System Monitoring Compounds

3) Hexanol	8.15	56	8300543	81.44	ppm	-0.04
Spiked Amount	50.000			Recovery	=	162.88%

## Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

H100564.D M4362EPG.M Wed Nov 03 16:58:10 2010 MSH

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## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100564.D

Vial: 6

Acq On : 26 Oct 2010 10:32 am

Operator: kristis

Sample : ja58750-12

Inst : MSH

Misc : ms3472,eh4373,5.04,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:58 2010

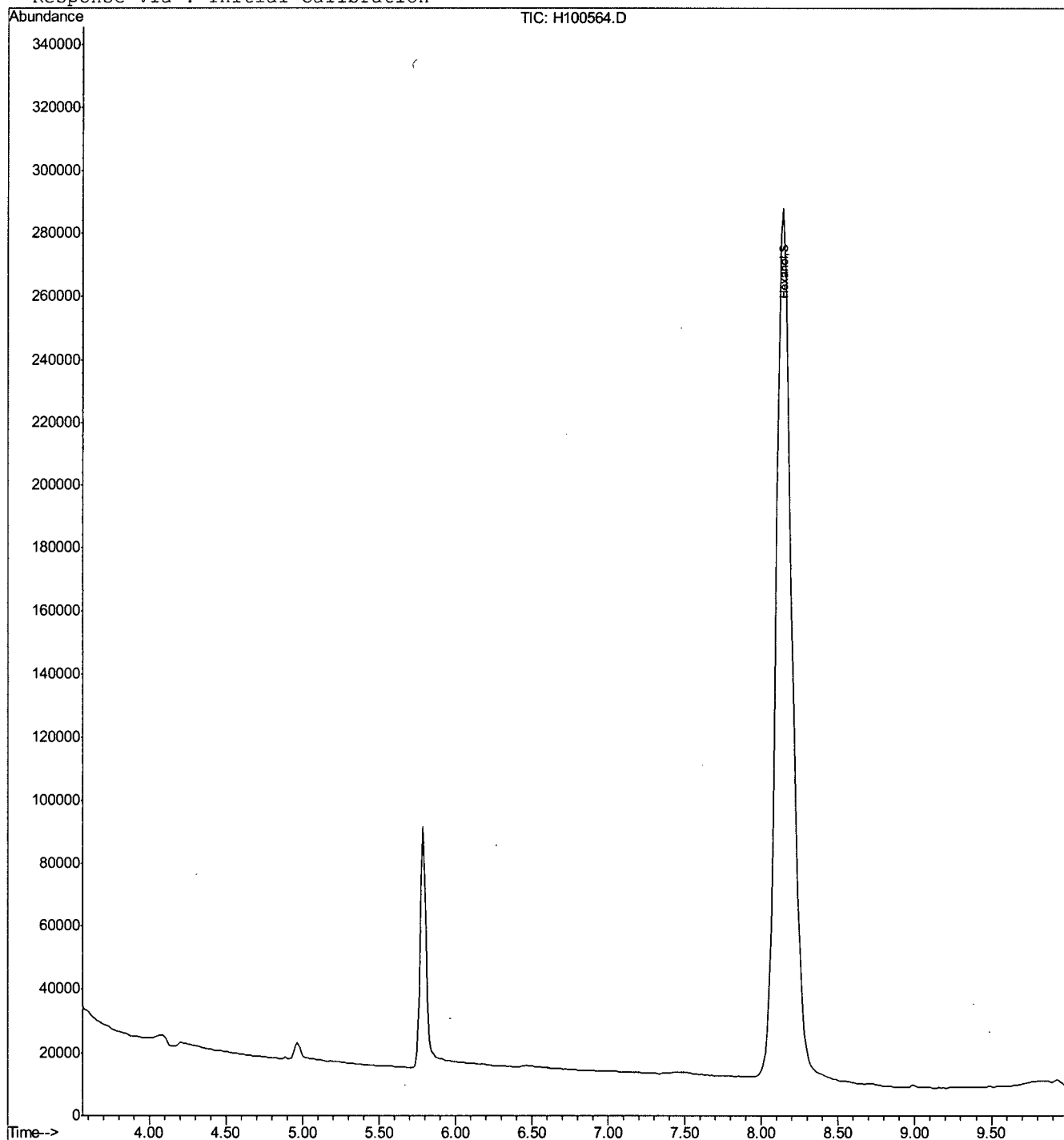
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:56:31 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100565.D Vial: 7  
Acq On : 26 Oct 2010 10:48 am Operator: kristis  
Sample : ja58750-13 Inst : MSH  
Misc : ms3472,eh4373,5.04,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:58 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:56:31 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.13	56	7394942	72.55	ppm	-0.06
Spiked Amount	50.000		Recovery	=	145.10%	
Target Compounds						Qvalue

-----  
(#) = qualifier out of range (m) = manual integration  
H100565.D M4362EPG.M Wed Nov 03 16:59:03 2010 MSH



## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100565.D

Vial: 7

Acq On : 26 Oct 2010 10:48 am

Operator: kristis

Sample : ja58750-13

Inst : MSH

Misc : ms3472,eh4373,5.04,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:58 2010

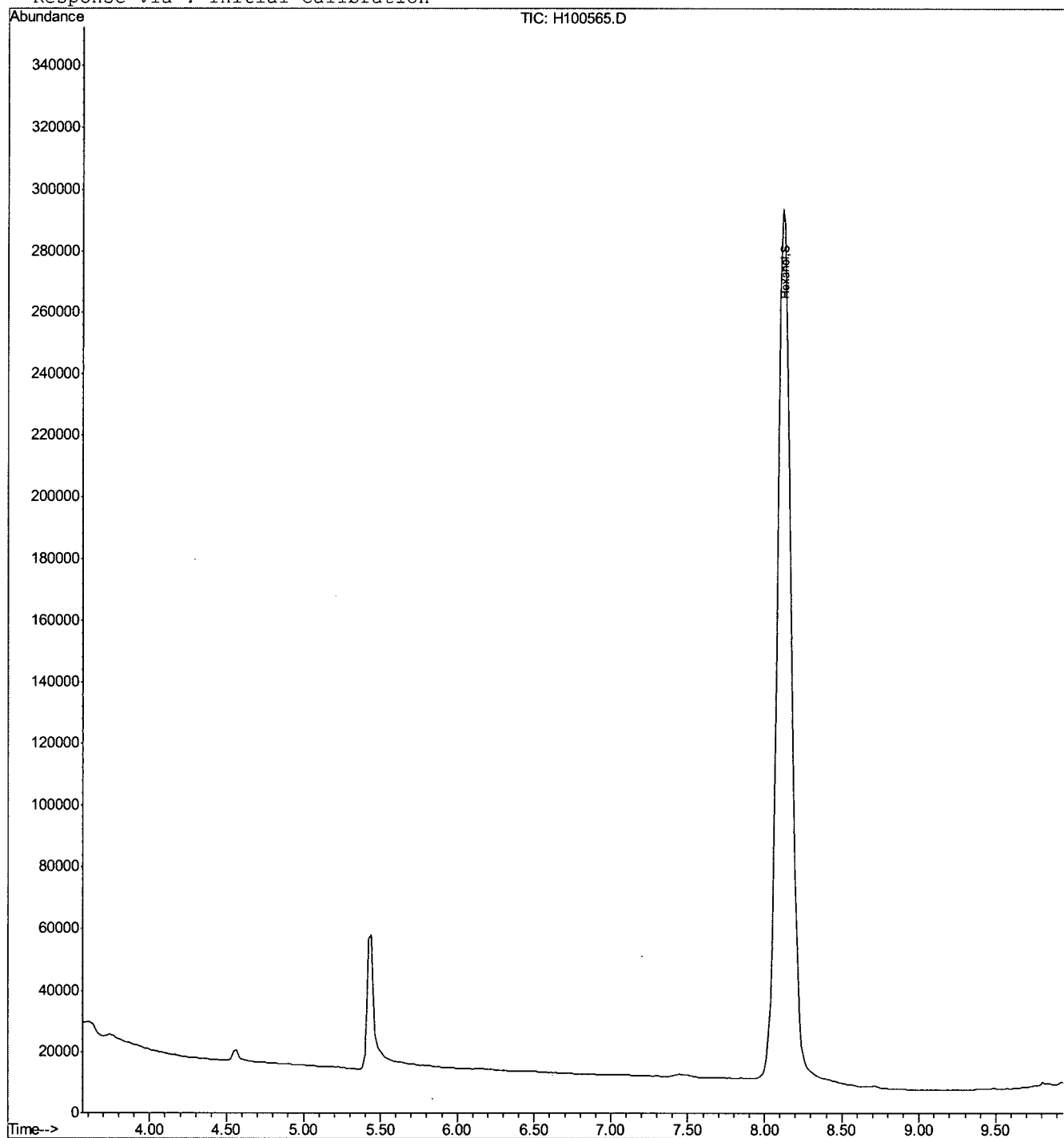
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:56:31 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100566.D Vial: 8  
Acq On : 26 Oct 2010 11:08 am Operator: kristis  
Sample : ja58750-14 Inst : MSH  
Misc : ms3472,eh4373,5.00,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Oct 26 11:10 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Thu Oct 21 08:16:09 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.06	56	7537672	73.95	ppm	0.13
Spiked Amount	50.000		Recovery	=	147.90%	
Target Compounds						Qvalue

-----  
(#) = qualifier out of range (m) = manual integration  
H100566.D M4362EPG.M Wed Nov 03 16:59:23 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100566.D

Vial: 8

Acq On : 26 Oct 2010 11:08 am

Operator: kristis

Sample : ja58750-14

Inst : MSH

Misc : ms3472,eh4373,5.00,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 26 11:10 2010

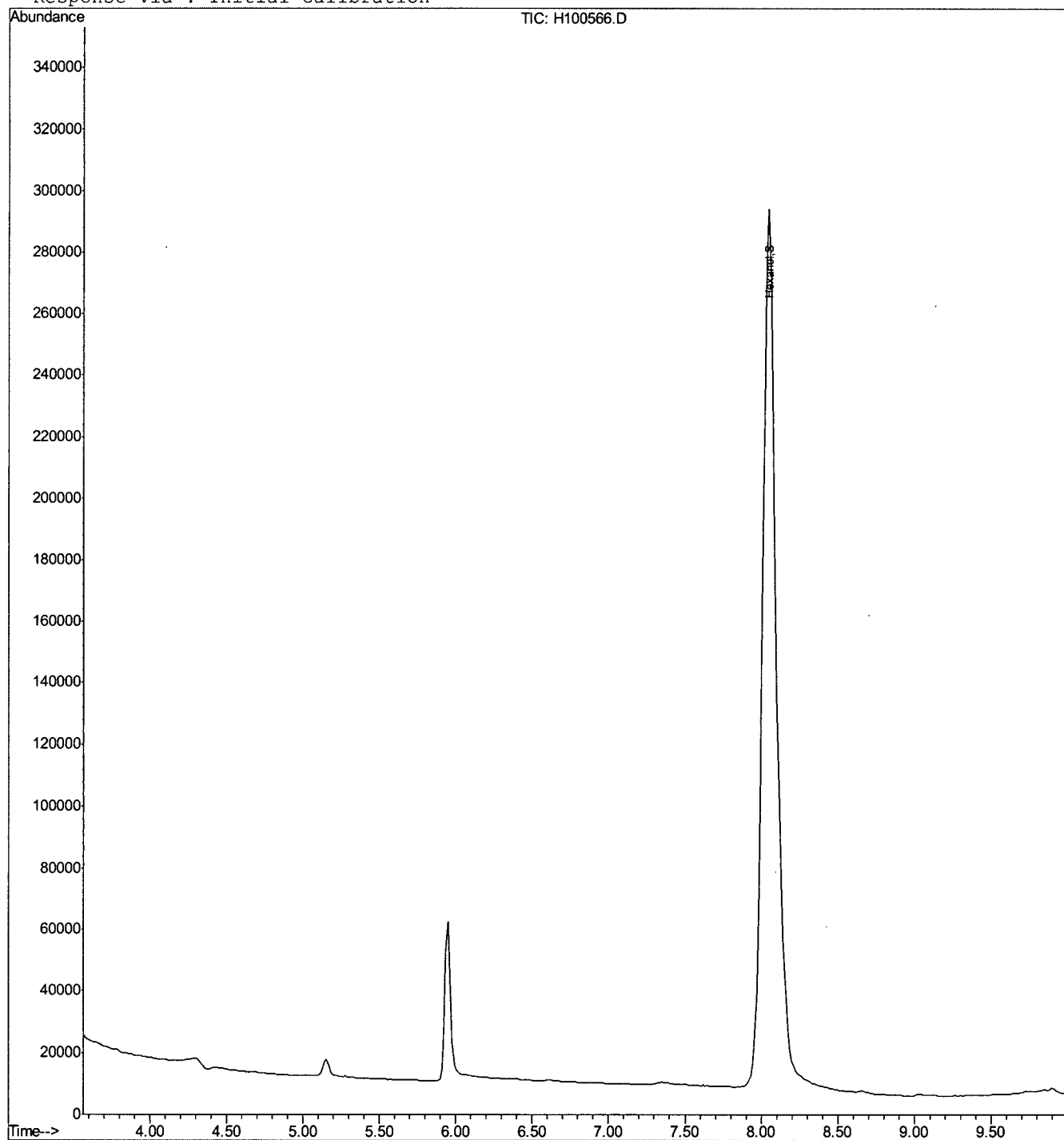
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:56:31 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100567.D Vial: 9  
Acq On : 26 Oct 2010 11:17 am Operator: kristis  
Sample : ja58750-15 Inst : MSH  
Misc : ms3472,eh4373,5.03,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:59 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Thu Oct 21 08:16:09 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

## System Monitoring Compounds

3) Hexanol	8.01	56	7959230	78.09	ppm	0.08
Spiked Amount	50.000		Recovery	=	156.18%	

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration

H100567.D M4362EPG.M Wed Nov 03 16:59:46 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100567.D

Vial: 9

Acq On : 26 Oct 2010 11:17 am

Operator: kristis

Sample : ja58750-15

Inst : MSH

Misc : ms3472,eh4373,5.03,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:59 2010

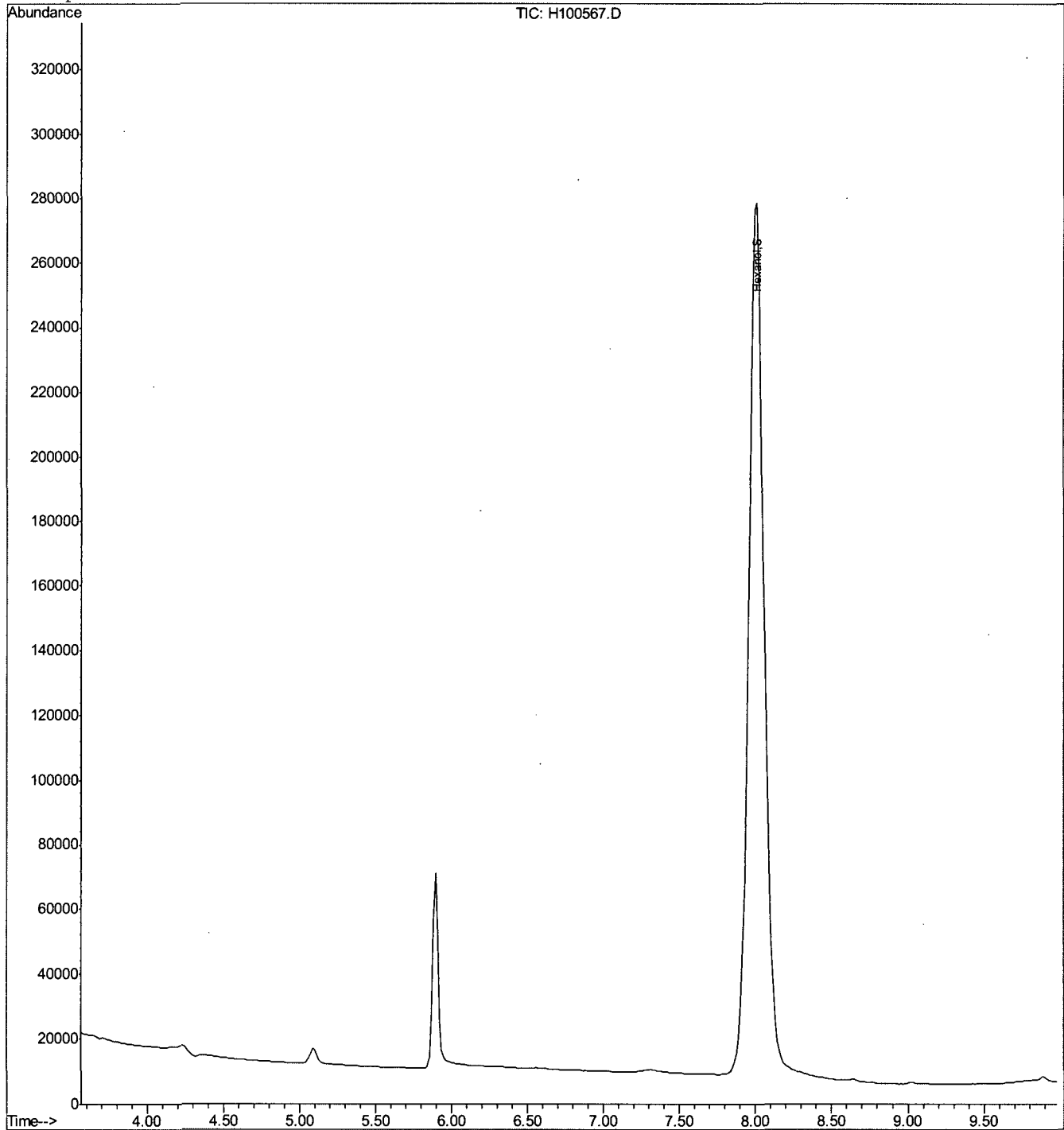
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:56:31 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100568.D Vial: 10  
Acq On : 26 Oct 2010 11:32 am Operator: kristis  
Sample : ja58750-16 Inst : MSH  
Misc : ms3472,eh4373,5.04,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Oct 26 11:38 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Thu Oct 21 08:16:09 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

## System Monitoring Compounds

3) Hexanol	7.86	56	3415871	33.51	ppm	-0.07
Spiked Amount	50.000		Recovery	=	67.02%	

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration

H100568.D M4362EPG.M Wed Nov 03 17:00:04 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100568.D

Vial: 10

Acq On : 26 Oct 2010 11:32 am

Operator: kristis

Sample : ja58750-16

Inst : MSH

Misc : ms3472,eh4373,5.04,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 26 11:38 2010

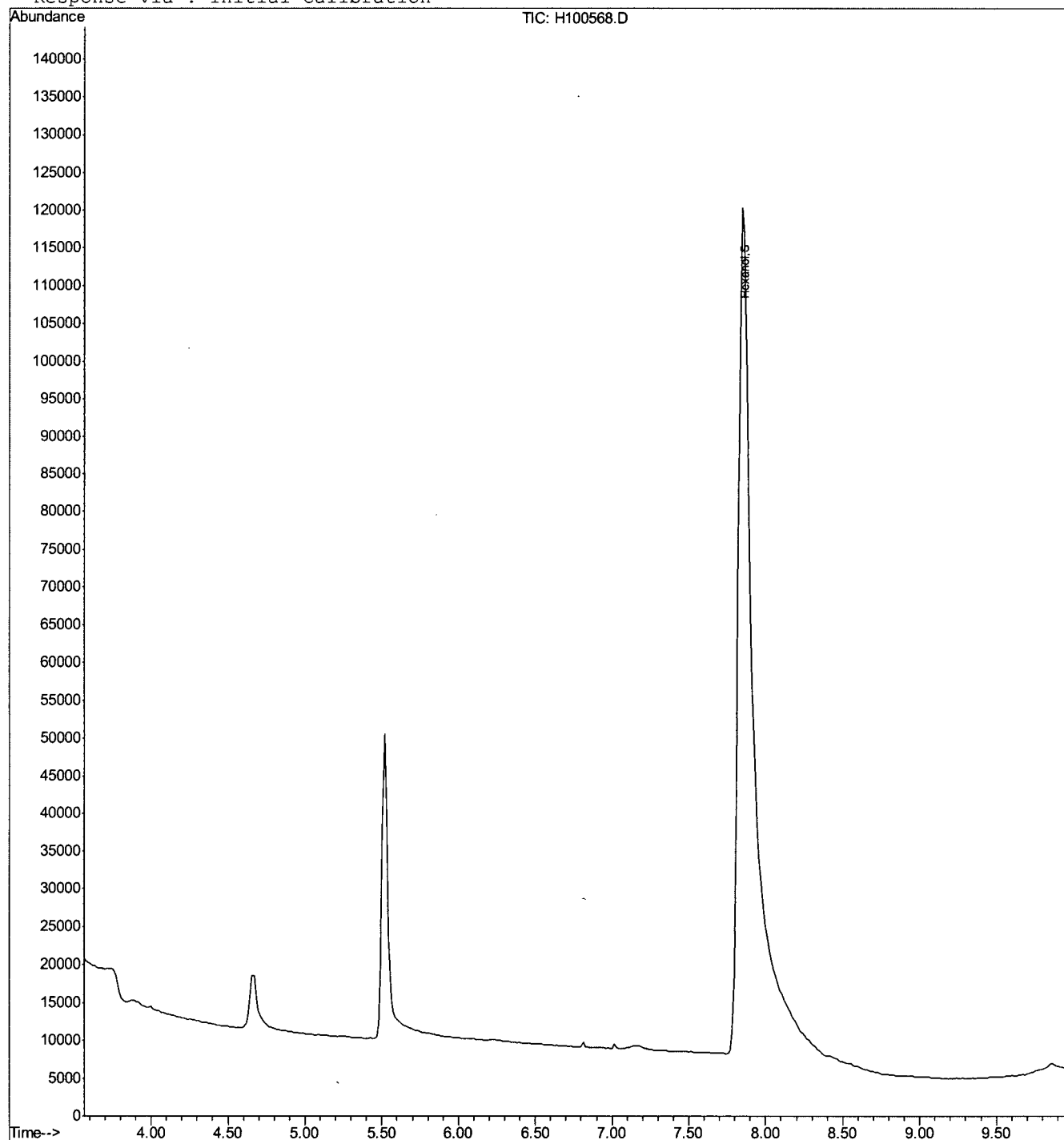
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:56:31 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100569.D Vial: 11  
Acq On : 26 Oct 2010 11:47 am Operator: kristis  
Sample : ja58750-17 Inst : MSH  
Misc : ms3472,eh4373,5.08,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Oct 26 11:52 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Thu Oct 21 08:16:09 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

## System Monitoring Compounds

3) Hexanol	7.85	56	3041366	29.84	ppm	-0.08
Spiked Amount	50.000		Recovery	=	59.68%	

Target Compounds						Qvalue
------------------	--	--	--	--	--	--------

-----  
(#) = qualifier out of range (m) = manual integration

H100569.D M4362EPG.M Wed Nov 03 17:00:22 2010 MSH

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## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100569.D

Vial: 11

Acq On : 26 Oct 2010 11:47 am

Operator: kristis

Sample : ja58750-17

Inst : MSH

Misc : ms3472,eh4373,5.08,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 26 11:52 2010

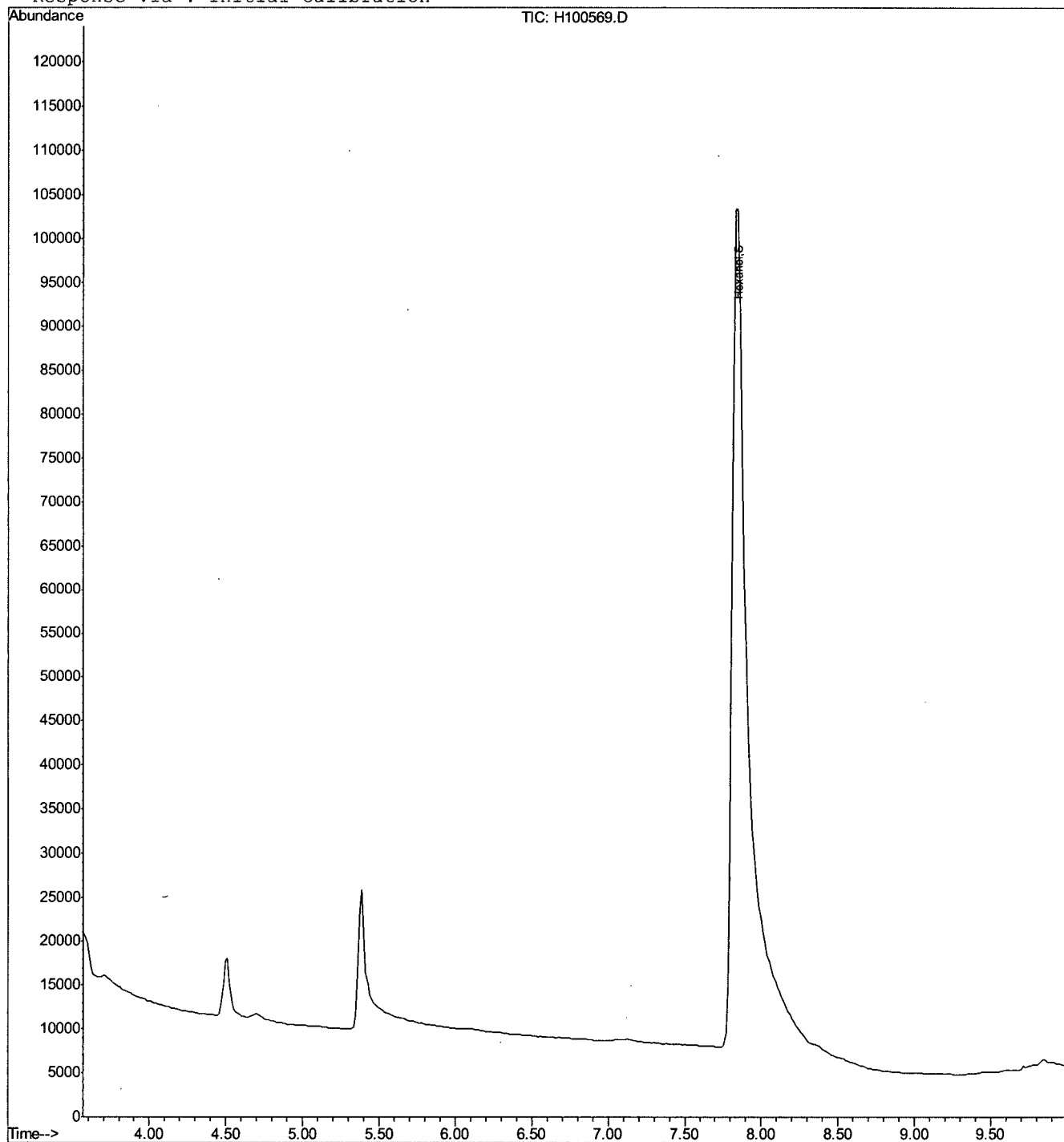
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:56:31 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100570.D Vial: 12  
Acq On : 26 Oct 2010 12:03 pm Operator: kristis  
Sample : ja58750-18 Inst : MSH  
Misc : ms3472,eh4373,5.00,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 17:00 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:56:31 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

## System Monitoring Compounds

3) Hexanol	8.16	56	8205029	80.50	ppm	-0.03
Spiked Amount	50.000		Recovery	=	161.00%	

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration

H100570.D M4362EPG.M Wed Nov 03 17:00:53 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100570.D

Vial: 12

Acq On : 26 Oct 2010 12:03 pm

Operator: kristis

Sample : ja58750-18

Inst : MSH

Misc : ms3472,eh4373,5.00,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 17:00 2010

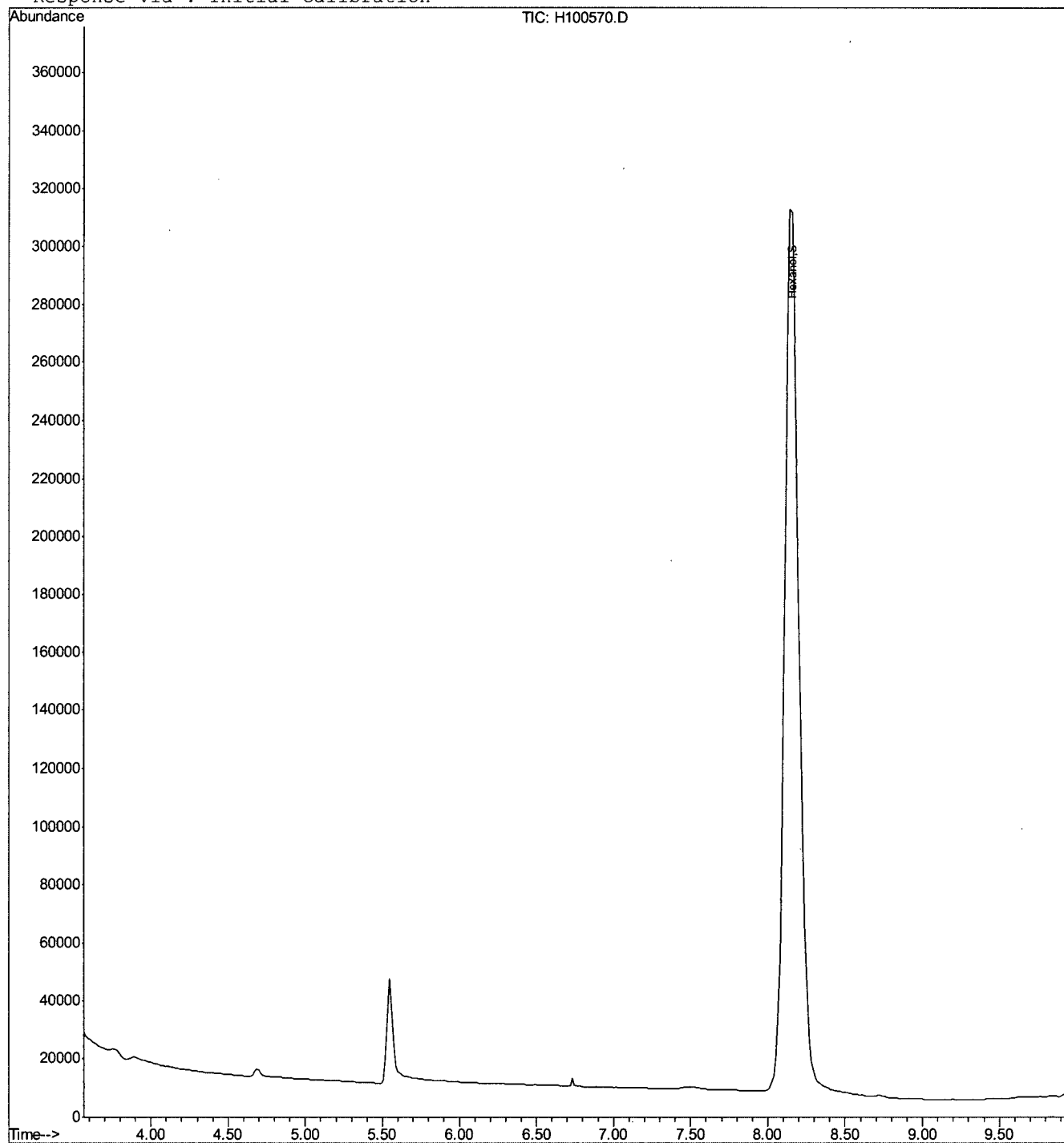
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:56:31 2010

Response via : Initial Calibration



H100570.D M4362EPG.M

Wed Nov 03 17:00:53 2010

MSH

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108264.D Vial: 14  
Acq On : 23 Oct 2010 9:22 pm Operator: JUNTAEP  
Sample : ja58750-1 Inst : MSX  
Misc : MS3476,vx4575,11.7,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:38:28 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration  
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.35	65	55340	500.00	ug/L	-0.02
6) pentafluorobenzene	10.03	168	207104	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	273695	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	253230	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	124839	50.00	ug/L	-0.02

System Monitoring Compounds

53) dibromofluoromethane (s)	10.10	113	81685	46.15	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	92.30%
54) 1,2-dichloroethane-d4 (s)	10.62	65	94279	48.34	ug/L	-0.03
Spiked Amount	50.000	Range	65 - 132	Recovery	=	96.68%
84) toluene-d8 (s)	13.39	98	320175	53.66	ug/L	-0.02
Spiked Amount	50.000	Range	74 - 129	Recovery	=	107.32%
109) 4-bromofluorobenzene (s)	16.91	95	132624	54.11	ug/L	-0.01
Spiked Amount	50.000	Range	62 - 138	Recovery	=	108.22%

Target Compounds

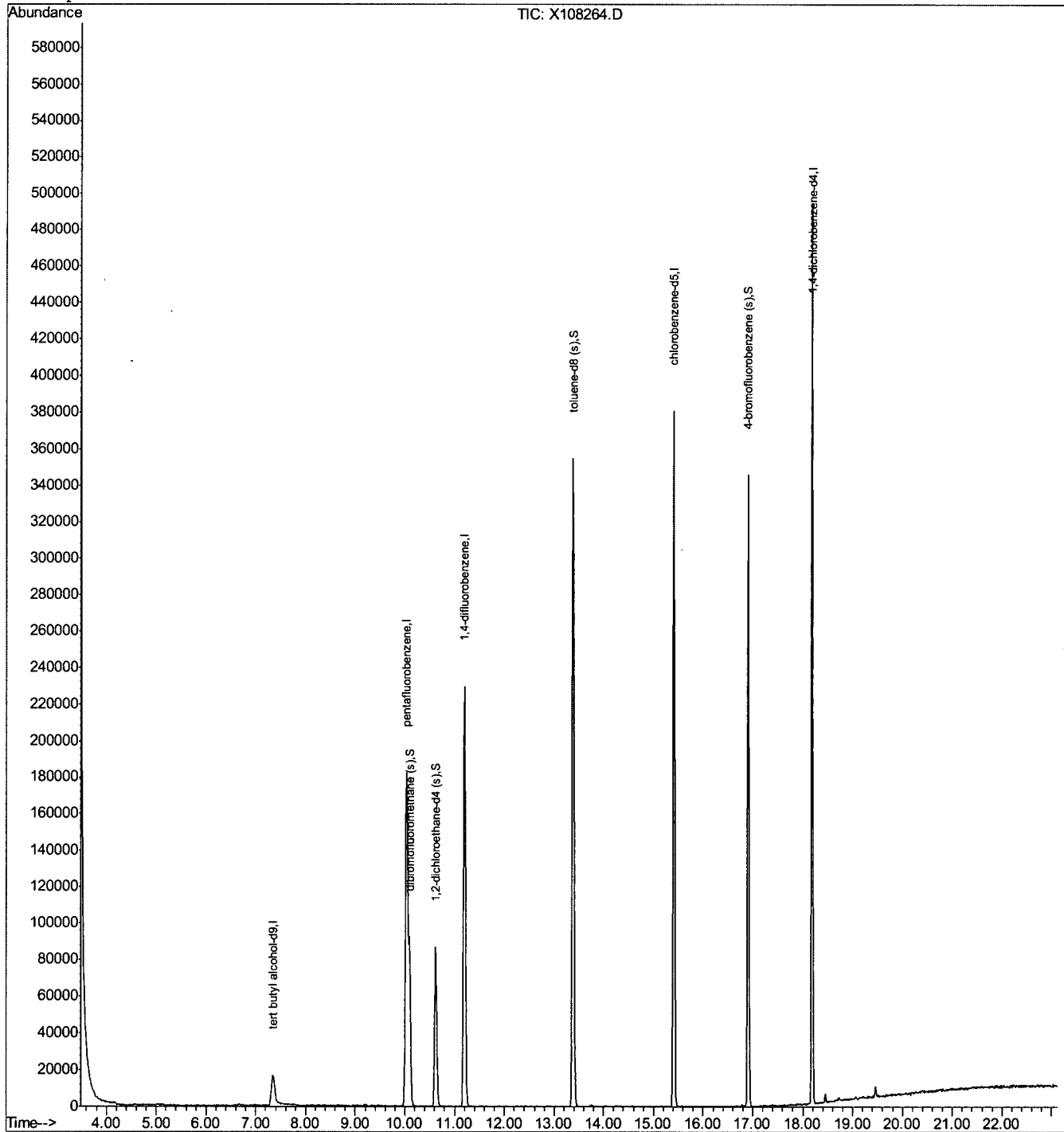
Qvalue

-----  
(#) = qualifier out of range (m) = manual integration (+) = signals summed  
X108264.D MX4516.M Mon Oct 25 17:11:43 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X4575-4576\X108264.D Vial: 14  
Acq On : 23 Oct 2010 9:22 pm Operator: JUNTAEP  
Sample : ja58750-1 Inst : MSX  
Misc : MS3476,vx4575,11.7,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:48 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X4575-4576\X108265.D Vial: 15  
Acq On : 23 Oct 2010 9:52 pm Operator: JUNTAEP  
Sample : ja58750-2 Inst : MSX  
Misc : MS3476,vx4575,11.2,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:38:32 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration  
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.34	65	75637	500.00	ug/L	-0.02
6) pentafluorobenzene	10.04	168	209862	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	276434	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	247507	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	112272	50.00	ug/L	-0.02

System Monitoring Compounds

53) dibromofluoromethane (s)	10.10	113	85073	47.43	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	94.86%
54) 1,2-dichloroethane-d4 (s)	10.62	65	97028	49.10	ug/L	-0.02
Spiked Amount	50.000	Range	65 - 132	Recovery	=	98.20%
84) toluene-d8 (s)	13.39	98	320292	53.15	ug/L	-0.02
Spiked Amount	50.000	Range	74 - 129	Recovery	=	106.30%
109) 4-bromofluorobenzene (s)	16.91	95	126045	57.18	ug/L	-0.01
Spiked Amount	50.000	Range	62 - 138	Recovery	=	114.36%

Target Compounds

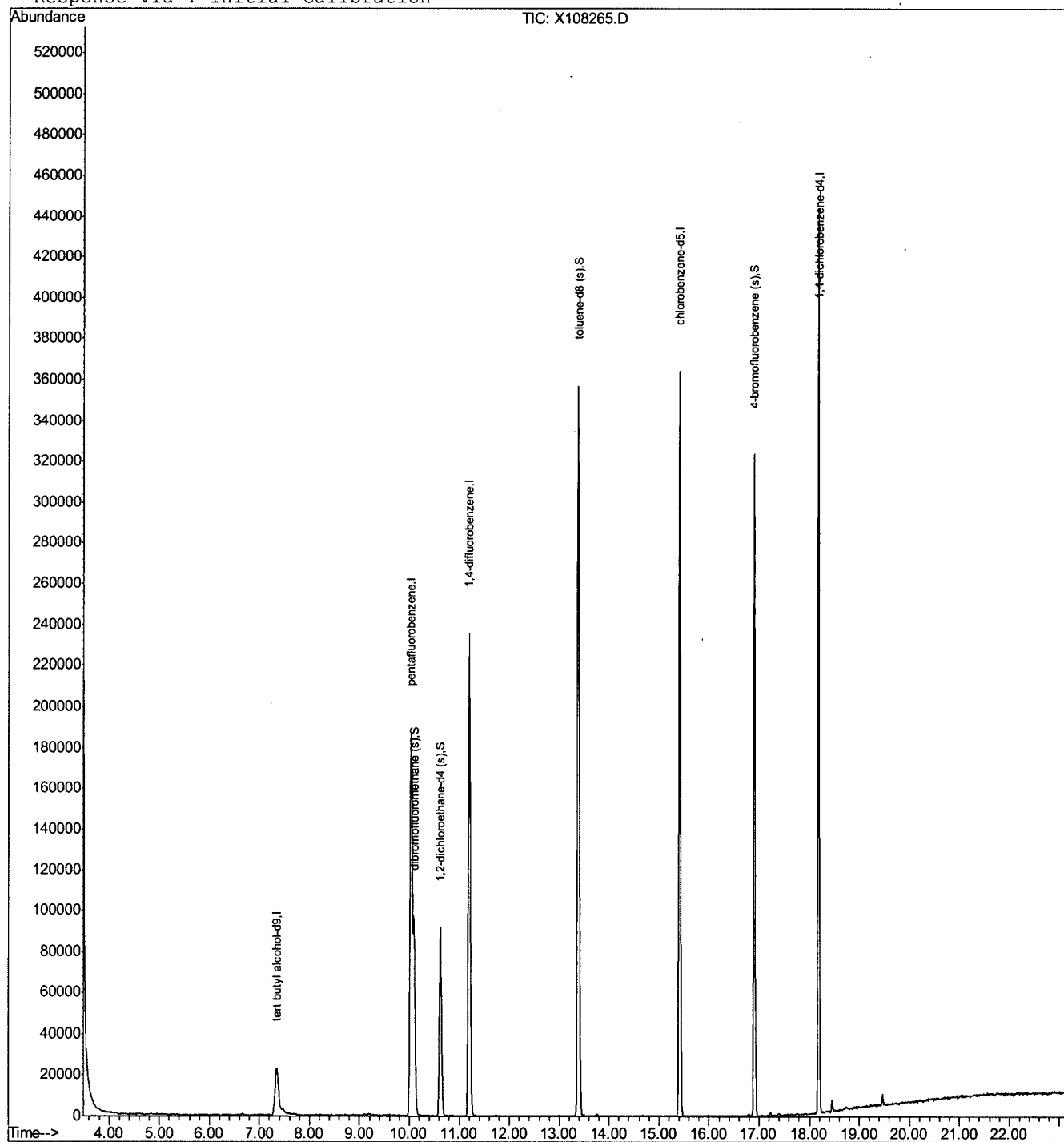
Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
X108265.D MX4516.M Mon Oct 25 17:11:46 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108265.D Vial: 15  
Acq On : 23 Oct 2010 9:52 pm Operator: JUNTAEP  
Sample : ja58750-2 Inst : MSX  
Misc : MS3476,vx4575,11.2,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:49 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108266.D Vial: 16  
Acq On : 23 Oct 2010 10:21 pm Operator: JUNTAEP  
Sample : ja58750-3 Inst : MSX  
Misc : MS3476,vx4575,11.0,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:38:37 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration  
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.34	65	76233	500.00	ug/L	-0.02
6) pentafluorobenzene	10.03	168	213879	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	284576	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	263970	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	116762	50.00	ug/L	-0.02

## System Monitoring Compounds

53) dibromofluoromethane (s)	10.10	113	83846	45.87	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	91.74%
54) 1,2-dichloroethane-d4 (s)	10.62	65	98132	48.72	ug/L	-0.02
Spiked Amount	50.000	Range	65 - 132	Recovery	=	97.44%
84) toluene-d8 (s)	13.39	98	335340	54.05	ug/L	-0.02
Spiked Amount	50.000	Range	74 - 129	Recovery	=	108.10%
109) 4-bromofluorobenzene (s)	16.91	95	132671	57.87	ug/L	-0.01
Spiked Amount	50.000	Range	62 - 138	Recovery	=	115.74%

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration (+) = signals summed  
X108266.D MX4516.M Mon Oct 25 17:11:50 2010 MSX



(QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108266.D

Vial: 16

Acq On : 23 Oct 2010 10:21 pm

Operator: JUNTAEP

Sample : ja58750-3

Inst : MSX

Misc : MS3476,vx4575,11.0,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Oct 25 16:49 2010

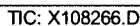
Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Mon Oct 25 16:35:25 2010

Response via : Initial Calibration



Mon Oct 25 17:11:50 2010

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108267.D Vial: 17  
Acq On : 23 Oct 2010 10:50 pm Operator: JUNTAEP  
Sample : ja58750-4 Inst : MSX  
Misc : MS3476,vx4575,10.4,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:38:42 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration  
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.33	65	71085	500.00	ug/L	-0.03
6) pentafluorobenzene	10.03	168	206297	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	273212	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	232279	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	76740	50.00	ug/L	-0.02

System Monitoring Compounds

53) dibromofluoromethane (s)	10.09	113	82845	46.99	ug/L	-0.03
Spiked Amount	50.000	Range	67 - 127	Recovery	=	93.98%
54) 1,2-dichloroethane-d4 (s)	10.62	65	93245	48.00	ug/L	-0.03
Spiked Amount	50.000	Range	65 - 132	Recovery	=	96.00%
84) toluene-d8 (s)	13.39	98	316806	53.19	ug/L	-0.02
Spiked Amount	50.000	Range	74 - 129	Recovery	=	106.38%
109) 4-bromofluorobenzene (s)	16.91	95	103895	68.95	ug/L	-0.02
Spiked Amount	50.000	Range	62 - 138	Recovery	=	137.90%

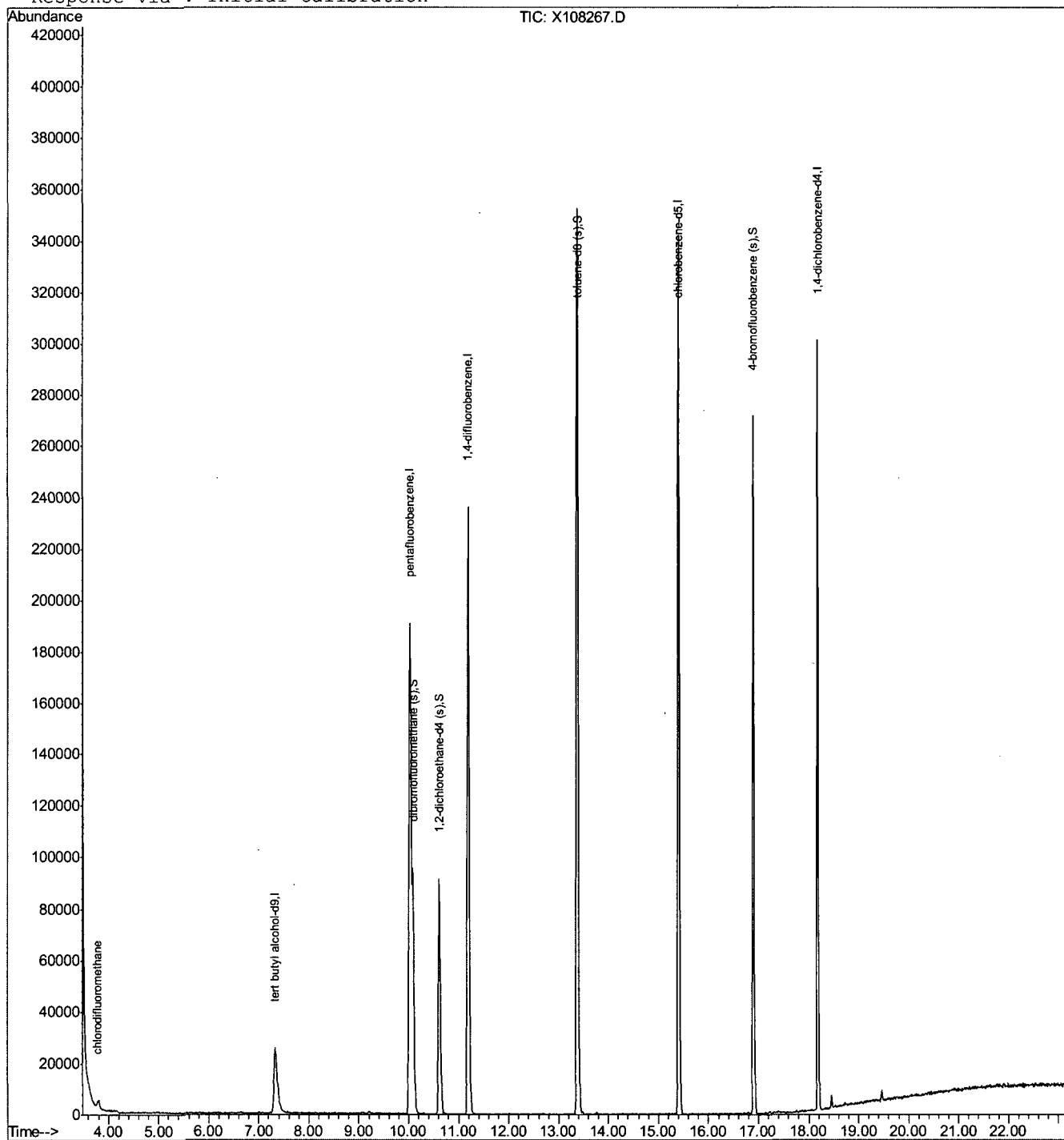
Target Compounds					Qvalue
12) chlorodifluoromethane	3.79	51	8457	4.39 ug/L	82

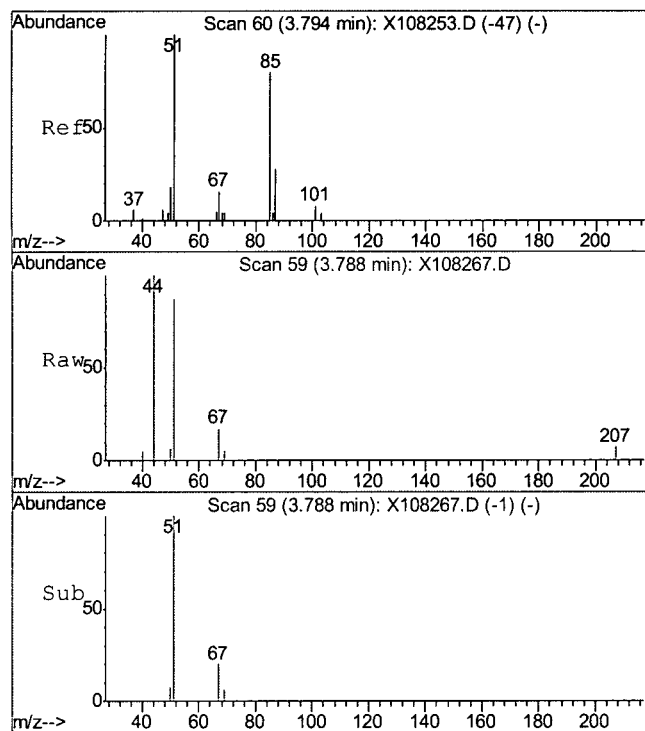
(#) = qualifier out of range (m) = manual integration (+) = signals summed  
X108267.D MX4516.M Mon Oct 25 17:11:53 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108267.D Vial: 17  
Acq On : 23 Oct 2010 10:50 pm Operator: JUNTAEP  
Sample : ja58750-4 Inst : MSX  
Misc : MS3476,vx4575,10.4,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:50 2010 Quant Results File: MX4516.RES

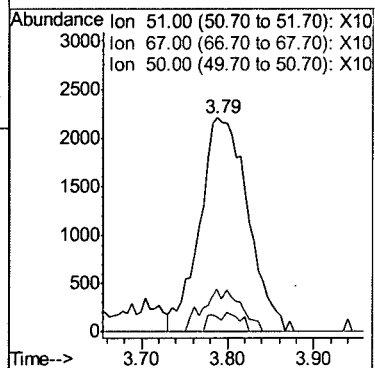
Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration





#12  
 chlorodifluoromethane  
 Concen: 4.39 ug/L  
 RT: 3.79 min Scan# 59  
 Delta R.T. -0.02 min  
 Lab File: X108267.D  
 Acq: 23 Oct 2010 10:50 pm

Tgt Ion:	51	Resp:	8457
Ion Ratio	Lower	Upper	
51	100		
67	20.8	0.0	44.9
50	7.1	0.0	46.3



6.1.22  
**6**

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108268.D Vial: 18  
 Acq On : 23 Oct 2010 11:20 pm Operator: JUNTAEP  
 Sample : ja58750-5 Inst : MSX  
 Misc : MS3476,vx4575,11.6,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:38:46 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.34	65	67207	500.00	ug/L	-0.03
6) pentafluorobenzene	10.03	168	209597	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	278148	50.00	ug/L	-0.02
92) chlorobenzene-d5	15.42	117	252391	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	109348	50.00	ug/L	-0.02

System Monitoring Compounds

53) dibromofluoromethane (s)	10.09	113	81205	45.33	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	90.66%	
54) 1,2-dichloroethane-d4 (s)	10.62	65	93235	47.24	ug/L	-0.02
Spiked Amount	50.000	Range 65 - 132	Recovery	=	94.48%	
84) toluene-d8 (s)	13.39	98	326652	53.87	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	107.74%	
109) 4-bromofluorobenzene (s)	16.91	95	126020	58.70	ug/L	-0.01
Spiked Amount	50.000	Range 62 - 138	Recovery	=	117.40%	

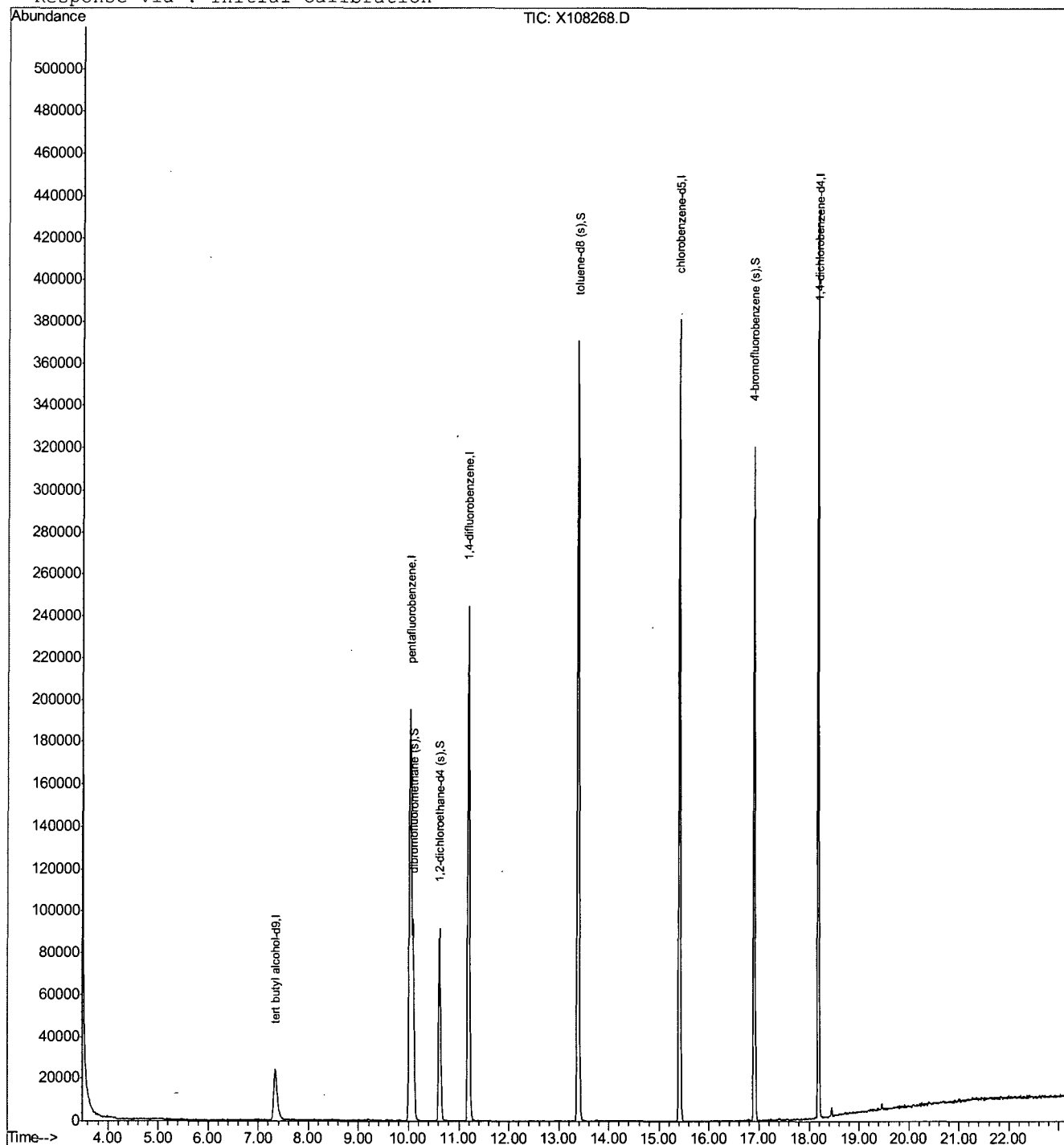
Target Compounds Qvalue

-----  
 (#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X108268.D MX4516.M Mon Oct 25 17:11:57 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108268.D Vial: 18  
Acq On : 23 Oct 2010 11:20 pm Operator: JUNTAEP  
Sample : ja58750-5 Inst : MSX  
Misc : MS3476,vx4575,11.6,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:50 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108269.D Vial: 19  
 Acq On : 23 Oct 2010 11:48 pm Operator: JUNTAEP  
 Sample : ja58750-6 Inst : MSX  
 Misc : MS3476,vx4575,10.5,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:38:51 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.36	65	72068	500.00	ug/L	0.00
6) pentafluorobenzene	10.04	168	202170	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	268382	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	245960	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	112386	50.00	ug/L	-0.02

System Monitoring Compounds

53) dibromofluoromethane (s)	10.10	113	80602	46.65	ug/L	-0.02
Spiked Amount	50.000	Range 67 - 127	Recovery	=	93.30%	
54) 1,2-dichloroethane-d4 (s)	10.62	65	92477	48.57	ug/L	-0.03
Spiked Amount	50.000	Range 65 - 132	Recovery	=	97.14%	
84) toluene-d8 (s)	13.39	98	314203	53.70	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	107.40%	
109) 4-bromofluorobenzene (s)	16.91	95	125054	56.67	ug/L	-0.01
Spiked Amount	50.000	Range 62 - 138	Recovery	=	113.34%	

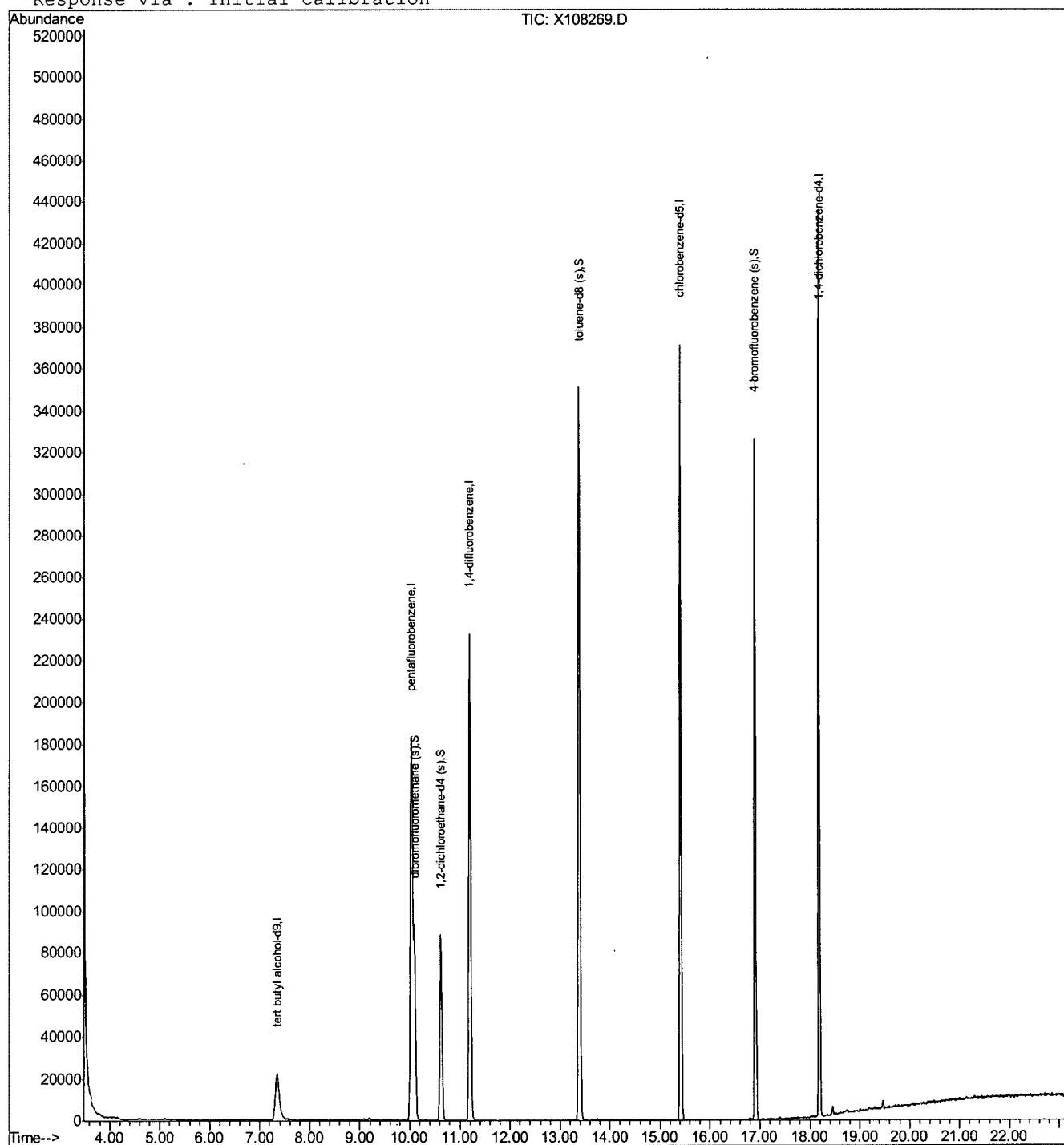
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X108269.D MX4516.M Mon Oct 25 17:12:00 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\ VX4575-4576\X108269.D Vial: 19  
Acq On : 23 Oct 2010 11:48 pm Operator: JUNTAEP  
Sample : ja58750-6 Inst : MSX  
Misc : MS3476,vx4575,10.5,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:51 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108270.D Vial: 20  
Acq On : 24 Oct 2010 12:18 am Operator: JUNTAEP  
Sample : ja58750-7 Inst : MSX  
Misc : MS3476,vx4575,9.9,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:38:55 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration  
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.33	65	73146	500.00	ug/L	-0.03
6) pentafluorobenzene	10.04	168	200877	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	266193	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	242637	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	104253	50.00	ug/L	-0.02

## System Monitoring Compounds

53) dibromofluoromethane (s)	10.09	113	79826	46.50	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	93.00%	
54) 1,2-dichloroethane-d4 (s)	10.62	65	91511	48.38	ug/L	-0.03
Spiked Amount	50.000	Range 65 - 132	Recovery	=	96.76%	
84) toluene-d8 (s)	13.39	98	313977	54.10	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	108.20%	
109) 4-bromofluorobenzene (s)	16.91	95	121154	59.19	ug/L	-0.01
Spiked Amount	50.000	Range 62 - 138	Recovery	=	118.38%	

## Target Compounds

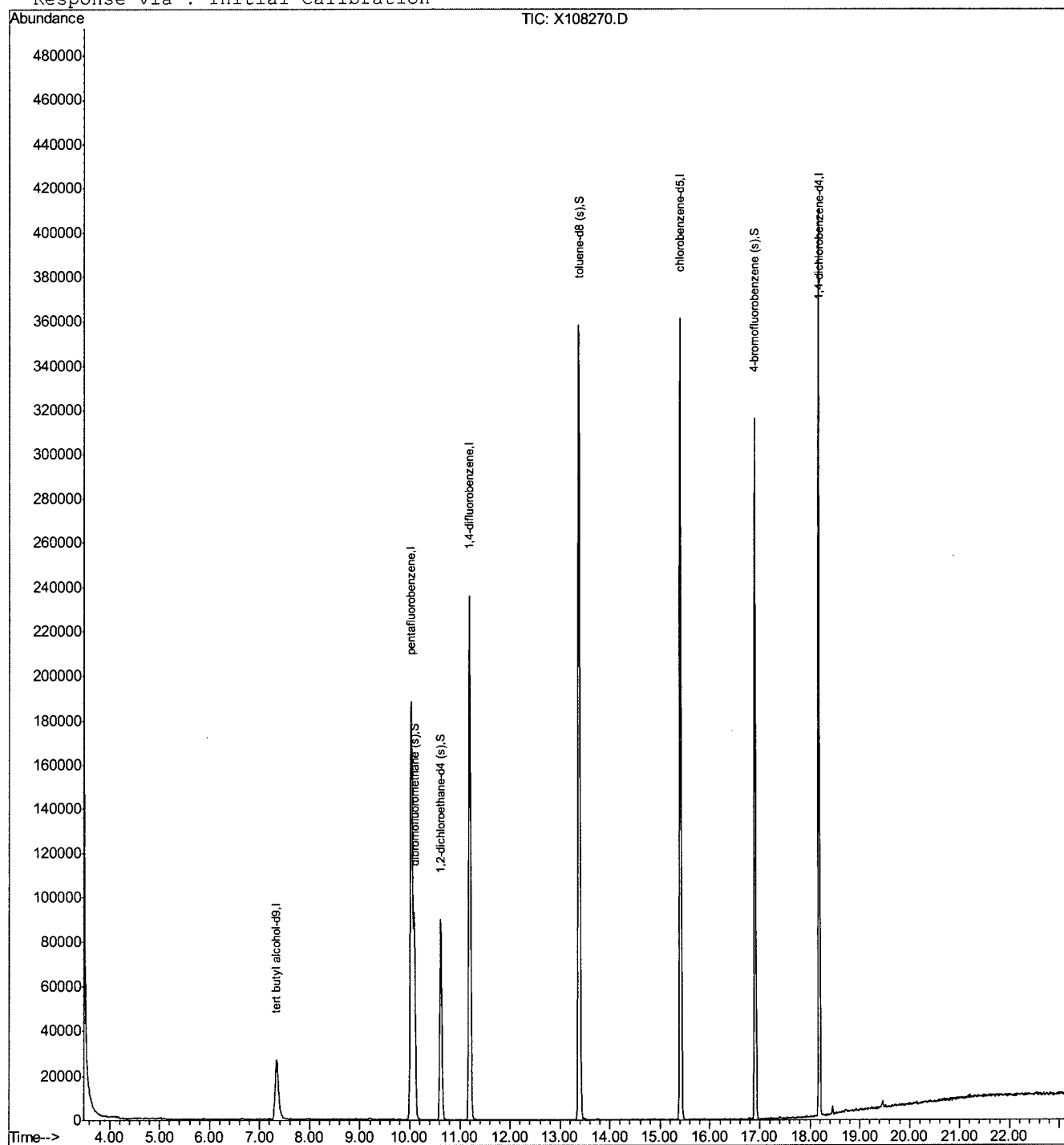
Qvalue

-----  
(#) = qualifier out of range (m) = manual integration (+) = signals summed  
X108270.D MX4516.M Mon Oct 25 17:12:03 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108270.D Vial: 20  
Acq On : 24 Oct 2010 12:18 am Operator: JUNTAEP  
Sample : ja58750-7 Inst : MSX  
Misc : MS3476,vx4575,9.9,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:51 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108271.D Vial: 21  
 Acq On : 24 Oct 2010 12:47 am Operator: JUNTAEP  
 Sample : ja58750-8 Inst : MSX  
 Misc : MS3476,vx4575,9.9,,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:39:00 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.34	65	89518	500.00	ug/L	-0.03
6) pentafluorobenzene	10.04	168	204088	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	275716	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	269975	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	125913	50.00	ug/L	-0.02

## System Monitoring Compounds

53) dibromofluoromethane (s)	10.09	113	82113	47.08	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	94.16%	
54) 1,2-dichloroethane-d4 (s)	10.62	65	98551	51.28	ug/L	-0.03
Spiked Amount	50.000	Range 65 - 132	Recovery	=	102.56%	
84) toluene-d8 (s)	13.39	98	331300	55.12	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	110.24%	
109) 4-bromofluorobenzene (s)	16.91	95	138236	55.92	ug/L	-0.01
Spiked Amount	50.000	Range 62 - 138	Recovery	=	111.84%	

## Target Compounds

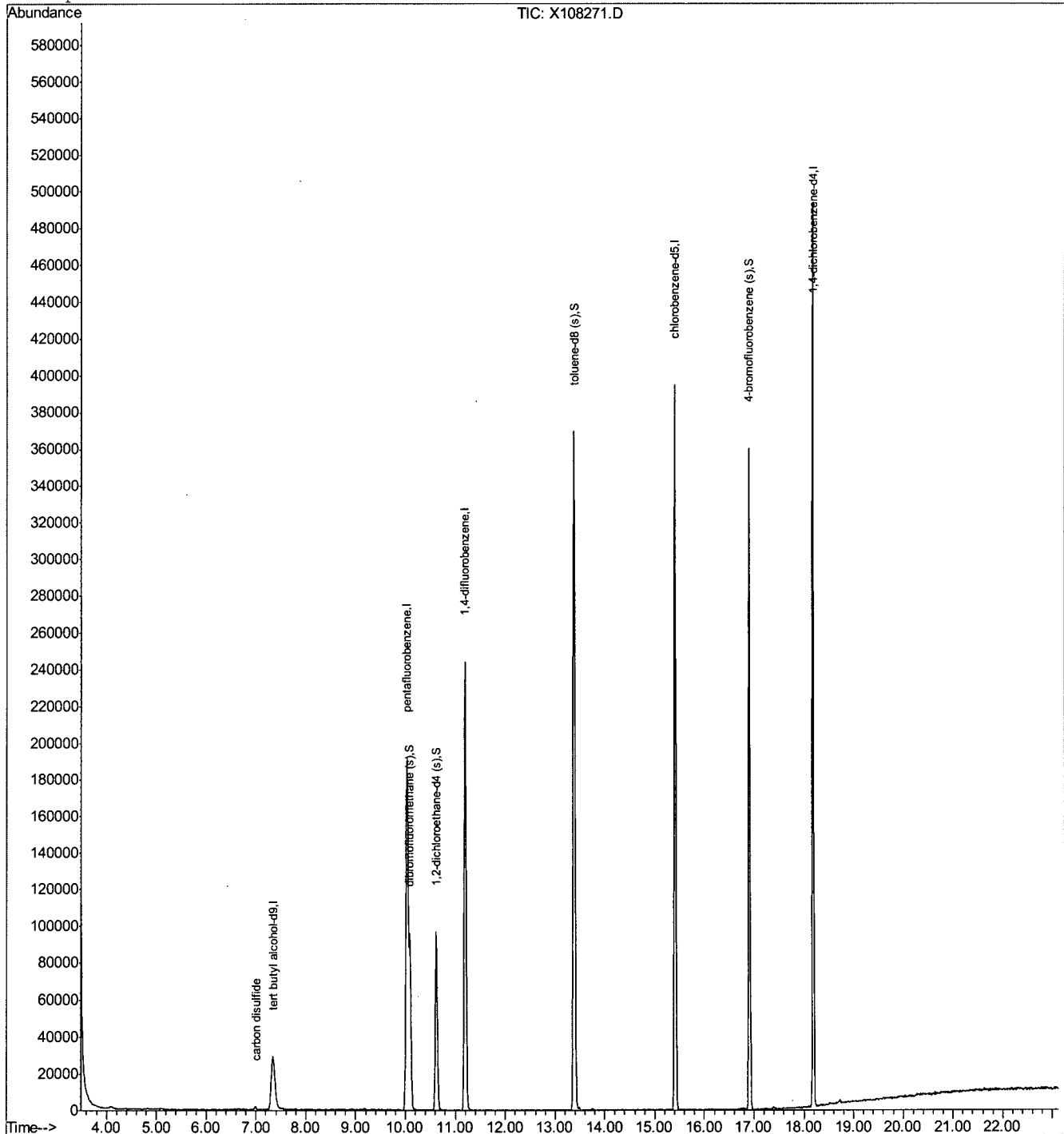
33) carbon disulfide	6.99	76	3629	0.51	ug/L	Qvalue 87
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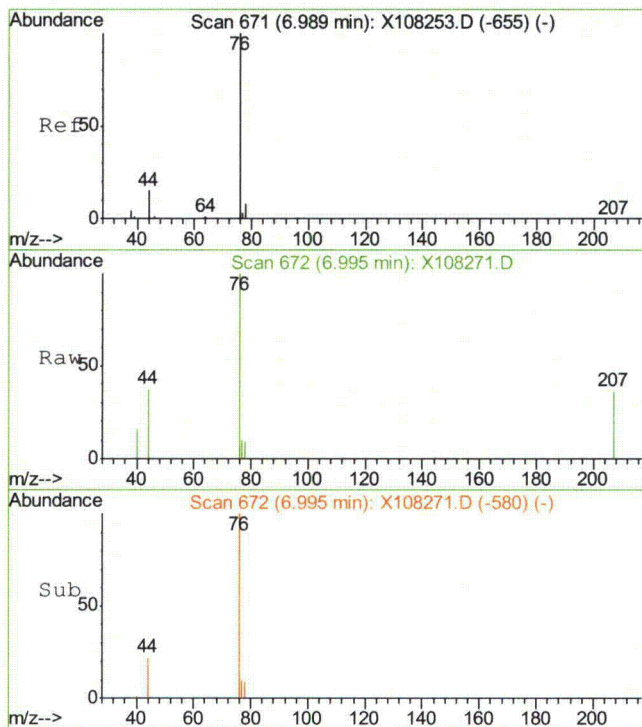
-----  
 (#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X108271.D MX4516.M Mon Oct 25 17:12:07 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108271.D Vial: 21  
Acq On : 24 Oct 2010 12:47 am Operator: JUNTAEP  
Sample : ja58750-8 Inst : MSX  
Misc : MS3476,vx4575,9.9,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:52 2010 Quant Results File: MX4516.RES

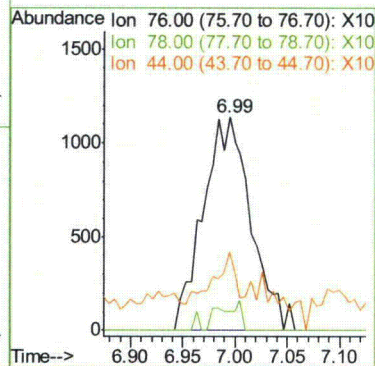
Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration





#33  
 carbon disulfide  
 Concen: 0.51 ug/L  
 RT: 6.99 min Scan# 672  
 Delta R.T. -0.02 min  
 Lab File: X108271.D  
 Acq: 24 Oct 2010 12:47 am

Tgt Ion:	76	Resp:	3629
Ion	Ratio	Lower	Upper
76	100		
78	9.0	0.0	39.5
44	21.7	0.0	43.1



6.126  
**6**

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108272.D Vial: 22  
 Acq On : 24 Oct 2010 1:16 am Operator: JUNTAEP  
 Sample : ja58750-9 Inst : MSX  
 Misc : MS3476,vx4575,9.1,,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:39:04 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.33	65	72403	500.00	ug/L	-0.04
6) pentafluorobenzene	10.03	168	208616	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	279430	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	262614	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	119438	50.00	ug/L	-0.02

## System Monitoring Compounds

53) dibromofluoromethane (s)	10.09	113	84591	47.44	ug/L	-0.03
Spiked Amount	50.000	Range	67 - 127	Recovery	=	94.88%
54) 1,2-dichloroethane-d4 (s)	10.62	65	96827	49.29	ug/L	-0.03
Spiked Amount	50.000	Range	65 - 132	Recovery	=	98.58%
84) toluene-d8 (s)	13.39	98	329325	54.06	ug/L	-0.02
Spiked Amount	50.000	Range	74 - 129	Recovery	=	108.12%
109) 4-bromofluorobenzene (s)	16.91	95	134946	57.54	ug/L	-0.01
Spiked Amount	50.000	Range	62 - 138	Recovery	=	115.08%

Target Compounds

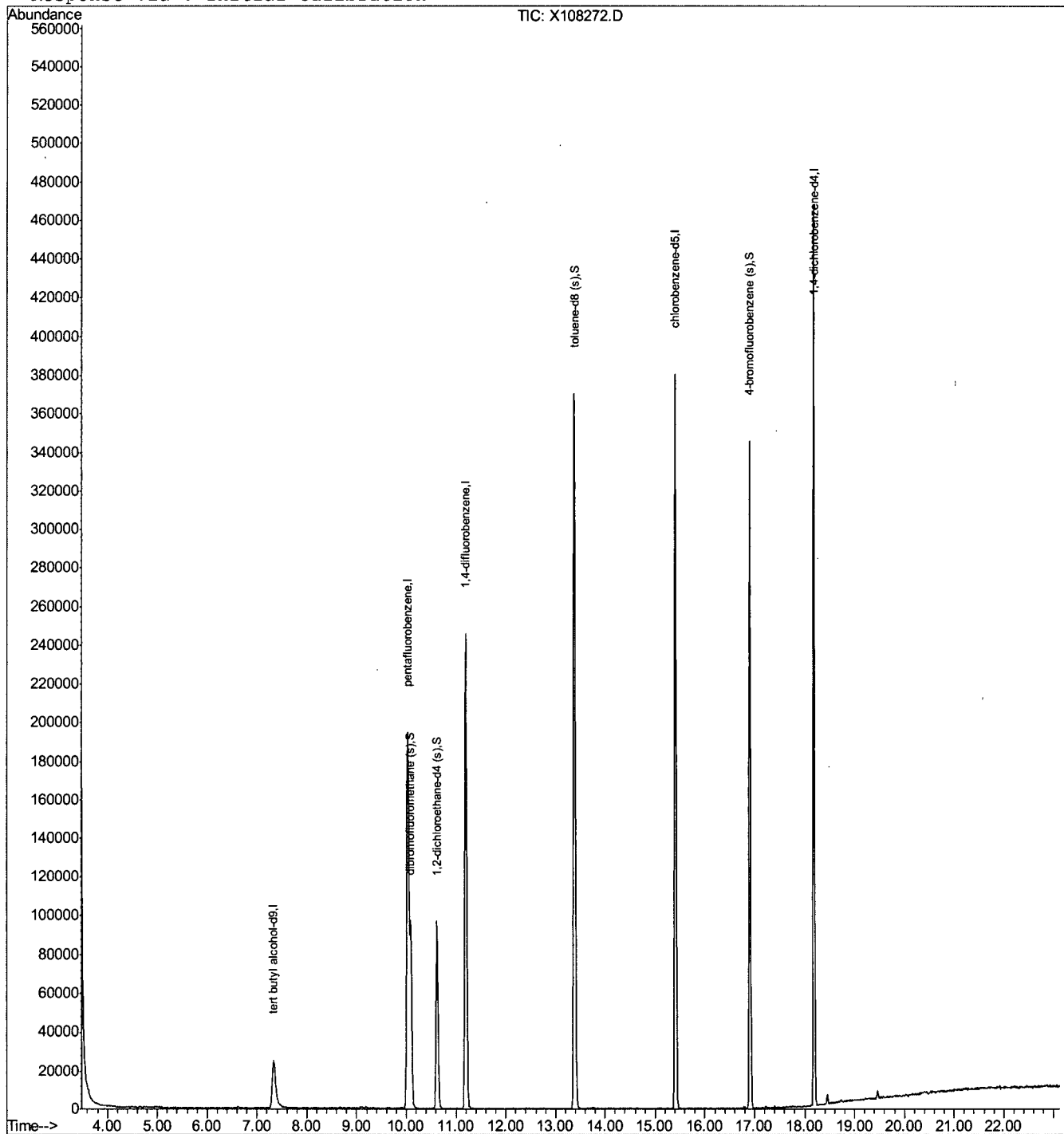
Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X108272.D MX4516.M Mon Oct 25 17:12:11 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108272.D Vial: 22  
Acq On : 24 Oct 2010 1:16 am Operator: JUNTAEP  
Sample : ja58750-9 Inst : MSX  
Misc : MS3476,vx4575,9.1,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:52 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
Data File : X108309.D  
Acq On : 25 Oct 2010 6:19 pm  
Operator : JUNTAEP  
Sample : ja58750-10  
Misc : MS3476,vx4577,10.4,,,,1  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 16:53:16 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.350	65	54144	500.00	ug/L	-0.01
6) pentafluorobenzene	10.054	168	133556	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.221	114	187667	50.00	ug/L	0.00
92) chlorobenzene-d5	15.431	117	171843	50.00	ug/L	0.00
107) 1,4-dichlorobenzene-d4	18.208	152	63310	50.00	ug/L	0.00
System Monitoring Compounds						
53) dibromofluoromethane (s)	10.112	113	57465	50.34	ug/L	0.00
Spiked Amount	50.000	Range 67 - 127	Recovery	=	100.68%	
54) 1,2-dichloroethane-d4 (s)	10.640	65	69314	55.11	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	=	110.22%	
84) toluene-d8 (s)	13.407	98	229674	56.14	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	112.28%	
109) 4-bromofluorobenzene (s)	16.927	95	85202	68.54	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	137.08%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration. (+) = signals summed

6.128

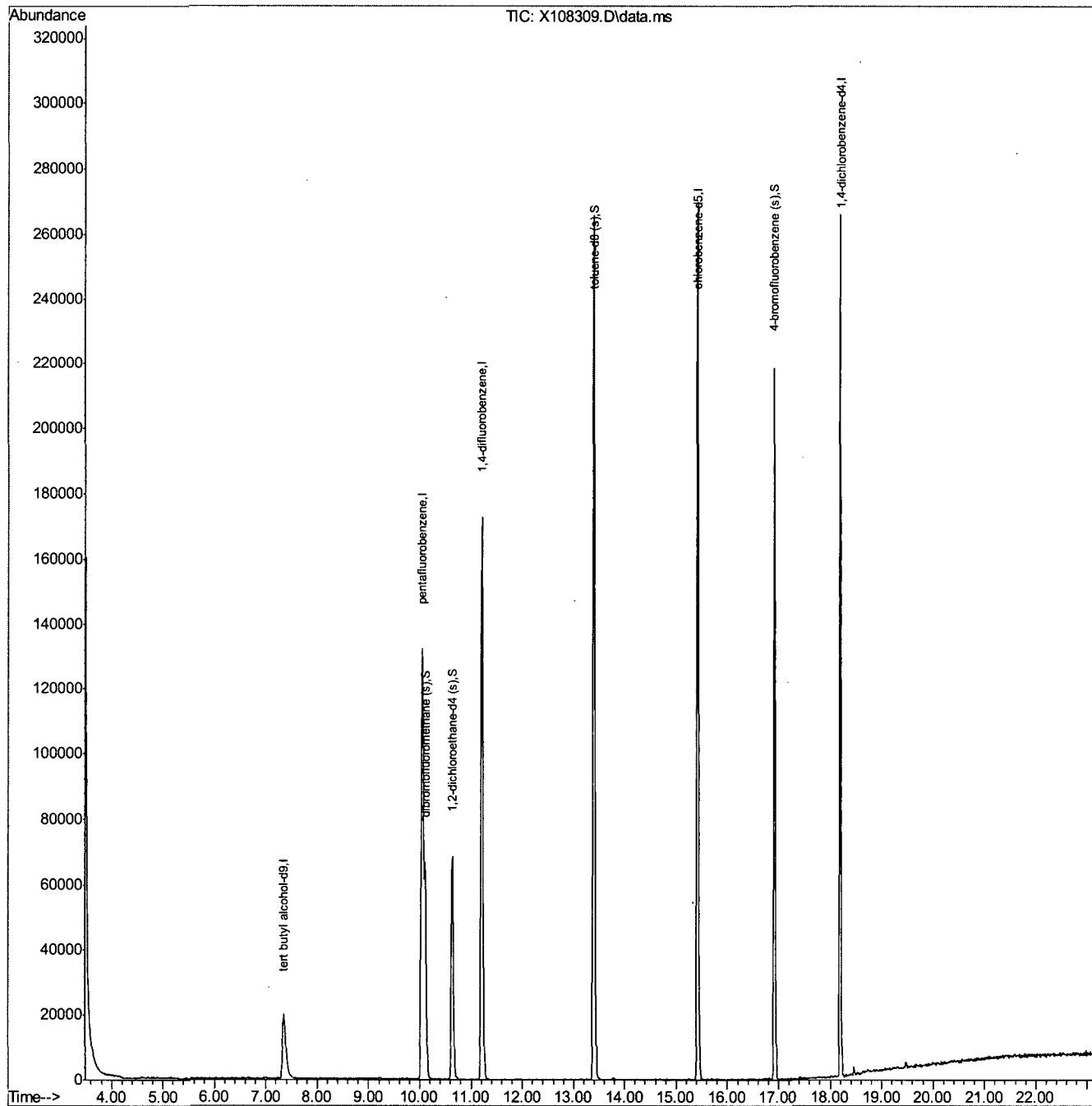
6



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
Data File : X108309.D  
Acq On : 25 Oct 2010 6:19 pm  
Operator : JUNTAEP  
Sample : ja58750-10  
Misc : MS3476,vx4577,10.4,,,1  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 16:53:16 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108259.D Vial: 9  
Acq On : 23 Oct 2010 6:57 pm Operator: JUNTAEP  
Sample : ja58750-11 Inst : MSX  
Misc : MS3476,vx4575,9.4,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:38:05 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration  
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.35	65	69311	500.00	ug/L	-0.01
6) pentafluorobenzene	10.04	168	198712	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	257367	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	218220	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	76471	50.00	ug/L	-0.02

System Monitoring Compounds

53) dibromofluoromethane (s)	10.09	113	78693	46.34	ug/L	-0.03
Spiked Amount	50.000	Range	67 - 127	Recovery	=	92.68%
54) 1,2-dichloroethane-d4 (s)	10.62	65	88997	47.56	ug/L	-0.02
Spiked Amount	50.000	Range	65 - 132	Recovery	=	95.12%
84) toluene-d8 (s)	13.39	98	298602	53.22	ug/L	-0.02
Spiked Amount	50.000	Range	74 - 129	Recovery	=	106.44%
109) 4-bromofluorobenzene (s)	16.91	95	100537	66.96	ug/L	-0.01
Spiked Amount	50.000	Range	62 - 138	Recovery	=	133.92%

Target Compounds

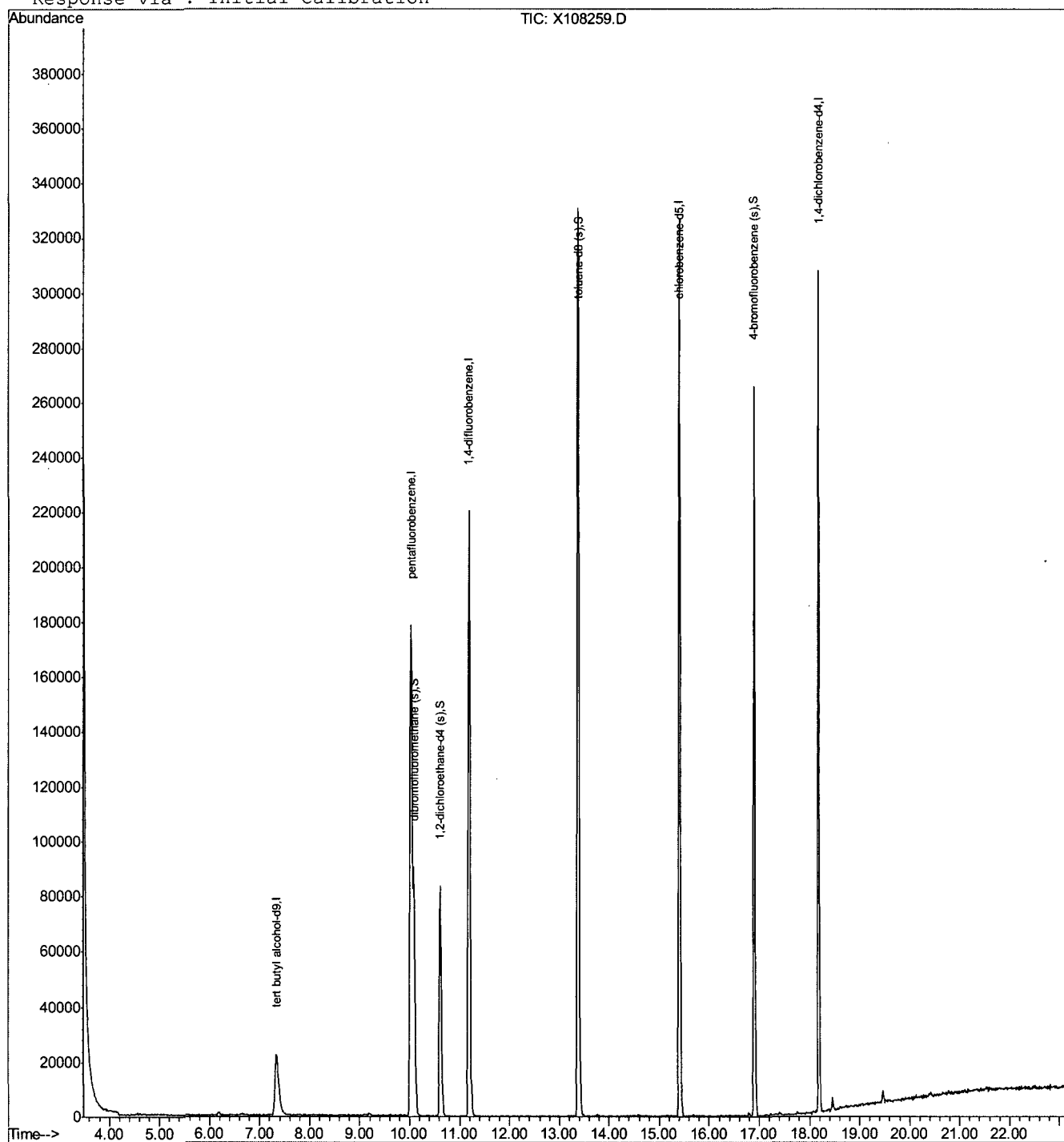
Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
X108259.D MX4516.M Mon Oct 25 17:11:28 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108259.D Vial: 9  
Acq On : 23 Oct 2010 6:57 pm Operator: JUNTAEP  
Sample : ja58750-11 Inst : MSX  
Misc : MS3476,vx4575,9.4,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:45 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
Data File : X108310.D  
Acq On : 25 Oct 2010 6:48 pm  
Operator : JUNTAEF  
Sample : ja58750-12  
Misc : MS3476,vx4577,10.9,,,,1  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 16:53:38 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.356	65	56784	500.00	ug/L	0.00
6) pentafluorobenzene	10.054	168	140261	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.221	114	195837	50.00	ug/L	0.00
92) chlorobenzene-d5	15.431	117	184042	50.00	ug/L	0.00
107) 1,4-dichlorobenzene-d4	18.203	152	73952	50.00	ug/L	0.00
System Monitoring Compounds						
53) dibromofluoromethane (s)	10.112	113	58868	49.11	ug/L	0.00
Spiked Amount	50.000	Range 67 - 127	Recovery	=	98.22%	
54) 1,2-dichloroethane-d4 (s)	10.640	65	72052	54.55	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	=	109.10%	
84) toluene-d8 (s)	13.402	98	239603	56.12	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	112.24%	
109) 4-bromofluorobenzene (s)	16.922	95	93718	64.54	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	129.08%	

Target Compounds Qvalue

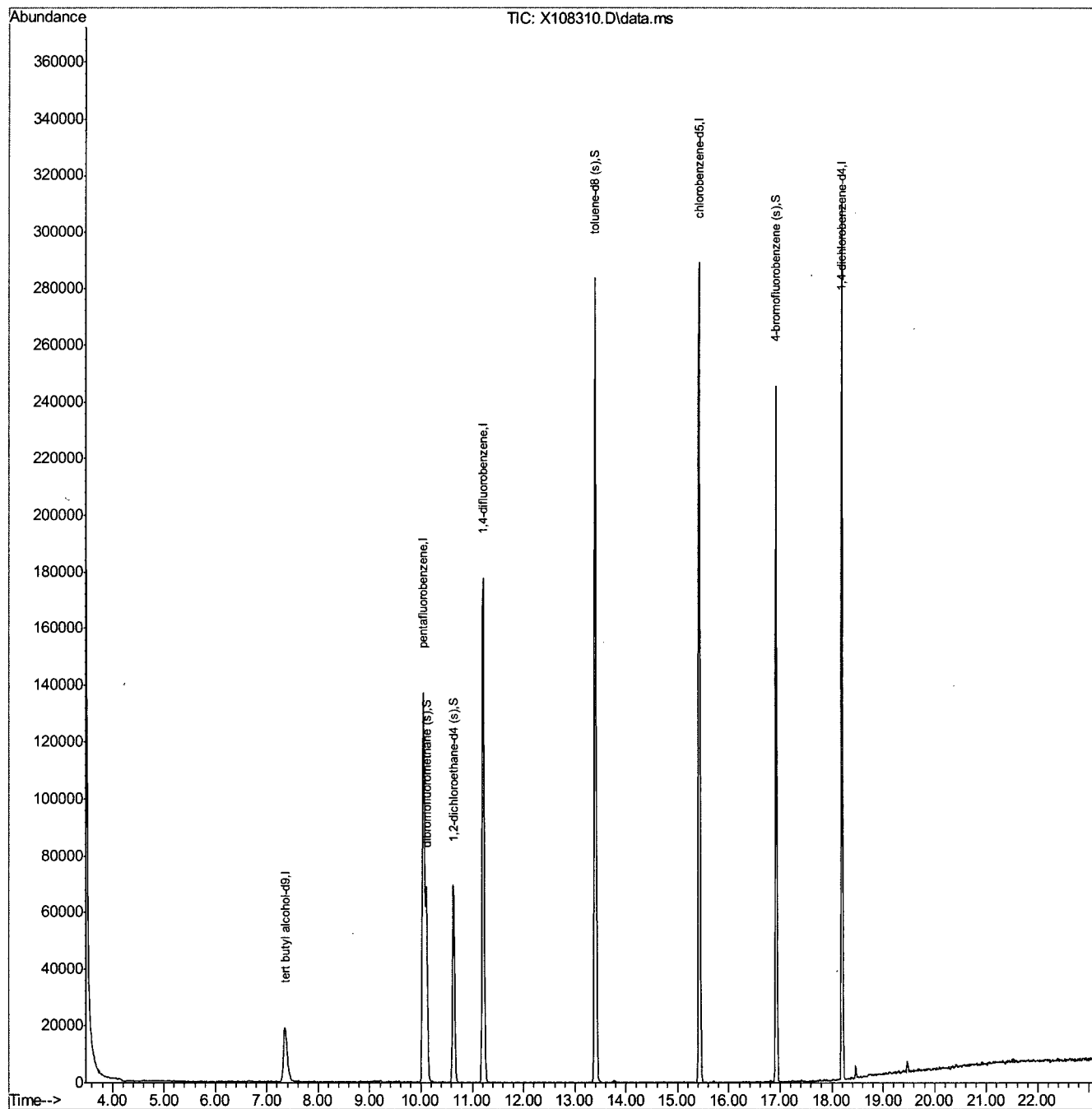
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.1.30  
6

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
Data File : X108310.D  
Acq On : 25 Oct 2010 6:48 pm  
Operator : JUNTAEP  
Sample : ja58750-12  
Misc : MS3476,vx4577,10.9,,,,,1  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 16:53:38 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
Data File : X108311.D  
Acq On : 25 Oct 2010 7:17 pm  
Operator : JUNTAEP  
Sample : ja58750-13  
Misc : MS3476,vx4577,10.7,,,,1  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 21:02:05 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) tert butyl alcohol-d9	7.356	65	56934	500.00	ug/L	0.00
6) pentafluorobenzene	10.049	168	130205	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.215	114	187838	50.00	ug/L	0.00
92) chlorobenzene-d5	15.431	117	153042	50.00	ug/L	0.00
107) 1,4-dichlorobenzene-d4	18.203	152	37093	50.00	ug/L	0.00
System Monitoring Compounds						
53) dibromofluoromethane (s)	10.107	113	59327	53.31	ug/L	-0.01
Spiked Amount 50.000	Range 67 - 127		Recovery	=	106.62%	
54) 1,2-dichloroethane-d4 (s)	10.635	65	69696	56.84	ug/L	-0.01
Spiked Amount 50.000	Range 65 - 132		Recovery	=	113.68%	
84) toluene-d8 (s)	13.402	98	220928	53.95	ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery	=	107.90%	
109) 4-bromofluorobenzene (s)	16.922	95	63899	87.74	ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery	=	175.48%#	
Target Compounds						
12) chlorodifluoromethane	3.804	51	2148	1.77	ug/L	Qvalue 82
-----						

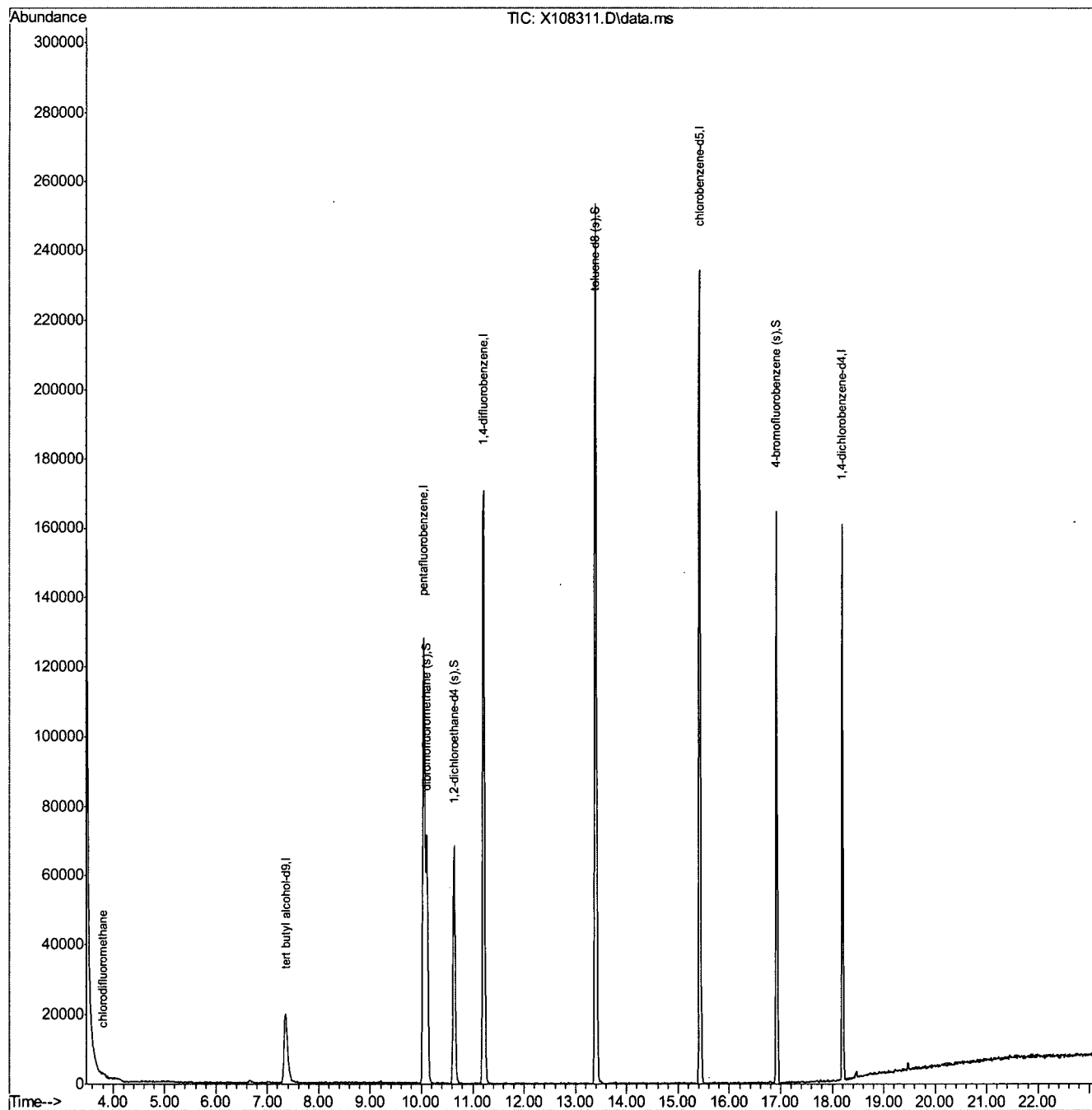
(#) = qualifier out of range (m) = manual integration (+) = signals summed

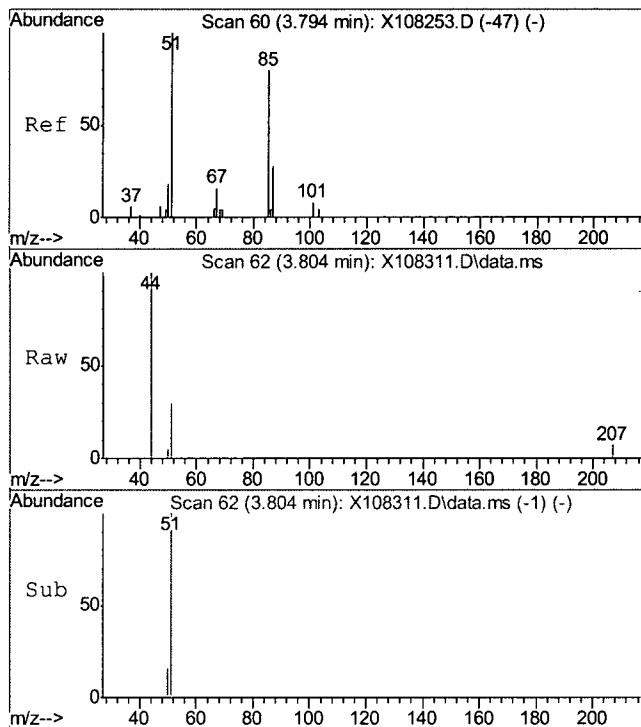
6.131  
**6**

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
Data File : X108311.D  
Acq On : 25 Oct 2010 7:17 pm  
Operator : JUNTAEF  
Sample : ja58750-13  
Misc : MS3476,vx4577,10.7,,,,,1  
ALS Vial : 13 Sample Multiplier: 1

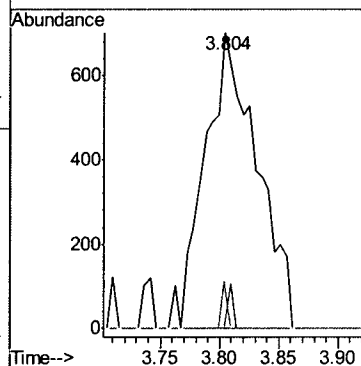
Quant Time: Oct 27 21:02:05 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration





#12  
chlorodifluoromethane  
Concen: 1.77 ug/L  
RT: 3.804 min Scan# 62  
Delta R.T. -0.005 min  
Lab File: X108311.D  
Acq: 25 Oct 2010 7:17 pm

Tgt Ion	Ratio	Lower	Upper
51	100		
67	0.0	0.0	44.9
50	15.9	0.0	46.3





## Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDDATA\VX4577-4578\X108344.D Vial: 4  
 Acq On : 26 Oct 2010 10:40 am Operator: JUNTAEP  
 Sample : ja58750-13CF Inst : MSX  
 Misc : MS3790,vx4578,9.6,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 26 11:03:36 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.36	65	59733	500.00	ug/L	0.00
6) pentafluorobenzene	10.05	168	123592	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	189600	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	157304	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	32987	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.11	113	59522	56.35	ug/L	-0.01
Spiked Amount	50.000	Range 67 - 127	Recovery	=	112.70%	
54) 1,2-dichloroethane-d4 (s)	10.63	65	74501	64.01	ug/L	-0.01
Spiked Amount	50.000	Range 65 - 132	Recovery	=	128.02%	
84) toluene-d8 (s)	13.40	98	225893	54.65	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	109.30%	
109) 4-bromofluorobenzene (s)	16.92	95	63241	97.64	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	195.28%#	

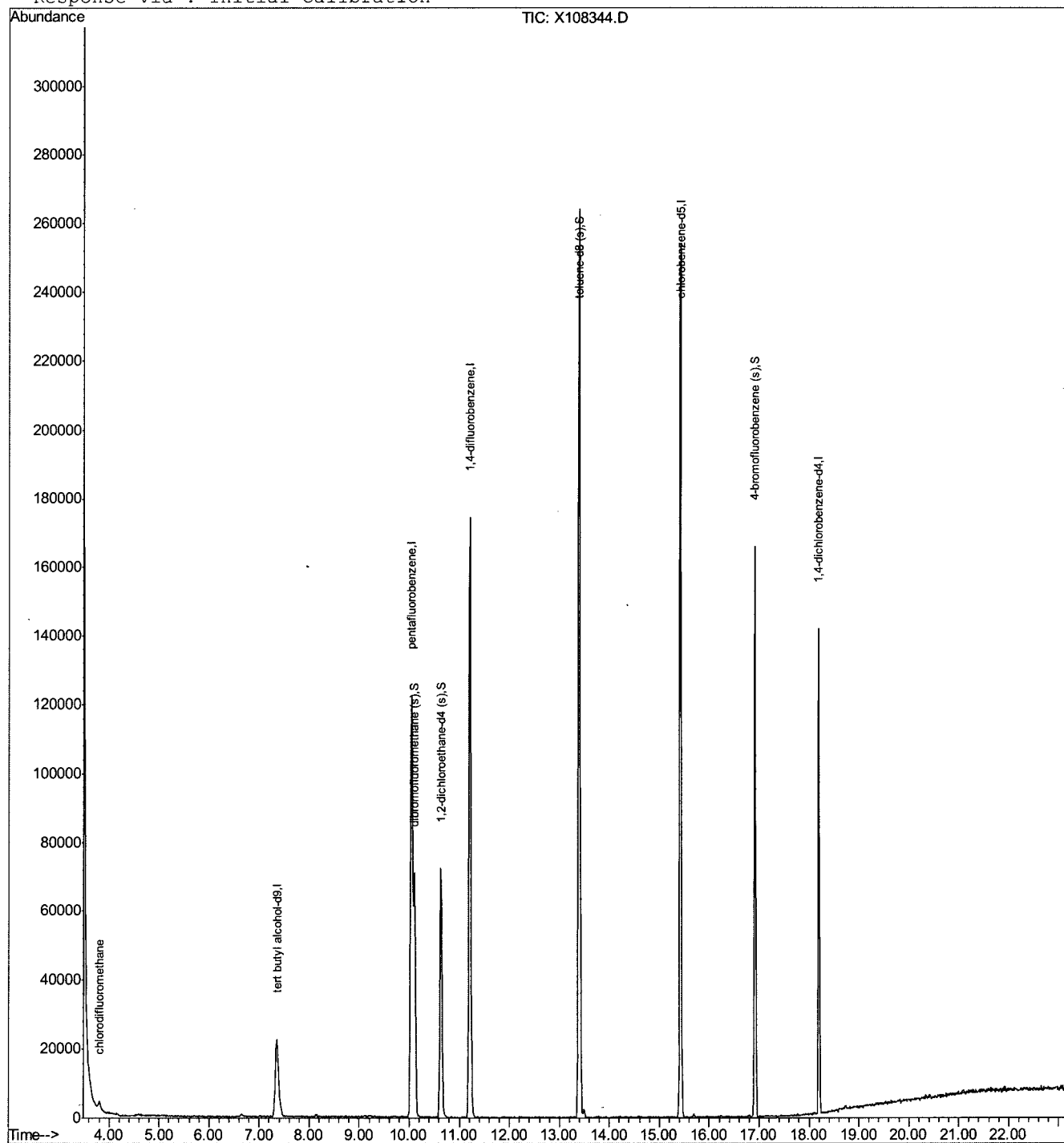
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) chlorodifluoromethane	3.81	51	6966	6.04	ug/L	78

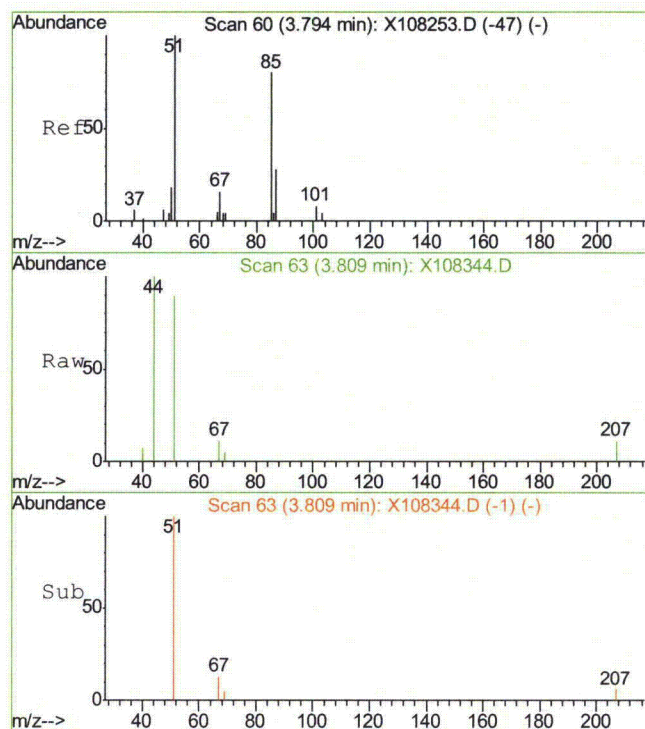
(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X108344.D MX4516.M Tue Nov 02 13:32:48 2010 MSX

## Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDDATA\VX4577-4578\X108344.D Vial: 4  
Acq On : 26 Oct 2010 10:40 am Operator: JUNTAEP  
Sample : ja58750-13CF Inst : MSX  
Misc : MS3790,vx4578,9.6,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Nov 2 13:30 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration





#12

chlorodifluoromethane

Concen: 6.04 ug/L

RT: 3.81 min Scan# 63

Delta R.T. 0.00 min

Lab File: X108344.D

Acq: 26 Oct 2010 10:40 am

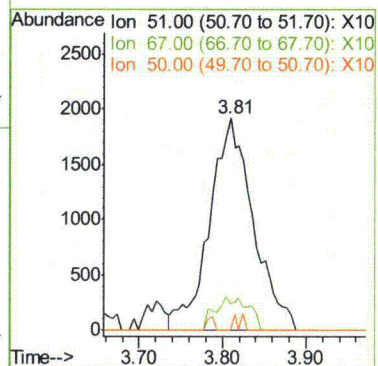
Tgt Ion: 51 Resp: 6966

Ion Ratio Lower Upper

51 100

67 13.1 0.0 44.9

50 0.0 0.0 46.3



6.1.32

6

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
Data File : X108312.D  
Acq On : 25 Oct 2010 7:47 pm  
Operator : JUNTAEP  
Sample : ja58750-14  
Misc : MS3476,vx4577,9.7,,,,,1  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 27 10:12:35 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) tert butyl alcohol-d9	7.366	65	62092	500.00	ug/L	0.00
6) pentafluorobenzene	10.054	168	141405	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.221	114	200650	50.00	ug/L	0.00
92) chlorobenzene-d5	15.431	117	189618	50.00	ug/L	0.00
107) 1,4-dichlorobenzene-d4	18.203	152	81449	50.00	ug/L	0.00
System Monitoring Compounds						
53) dibromofluoromethane (s)	10.112	113	60022	49.66	ug/L	0.00
Spiked Amount	50.000	Range 67 - 127	Recovery	=	99.32%	
54) 1,2-dichloroethane-d4 (s)	10.640	65	73783	55.41	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	=	110.82%	
84) toluene-d8 (s)	13.402	98	247674	56.62	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	113.24%	
109) 4-bromofluorobenzene (s)	16.922	95	99033	61.93	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	123.86%	

Target Compounds Qvalue

-----

(#) = qualifier out of range (m) = manual integration (+) = signals summed

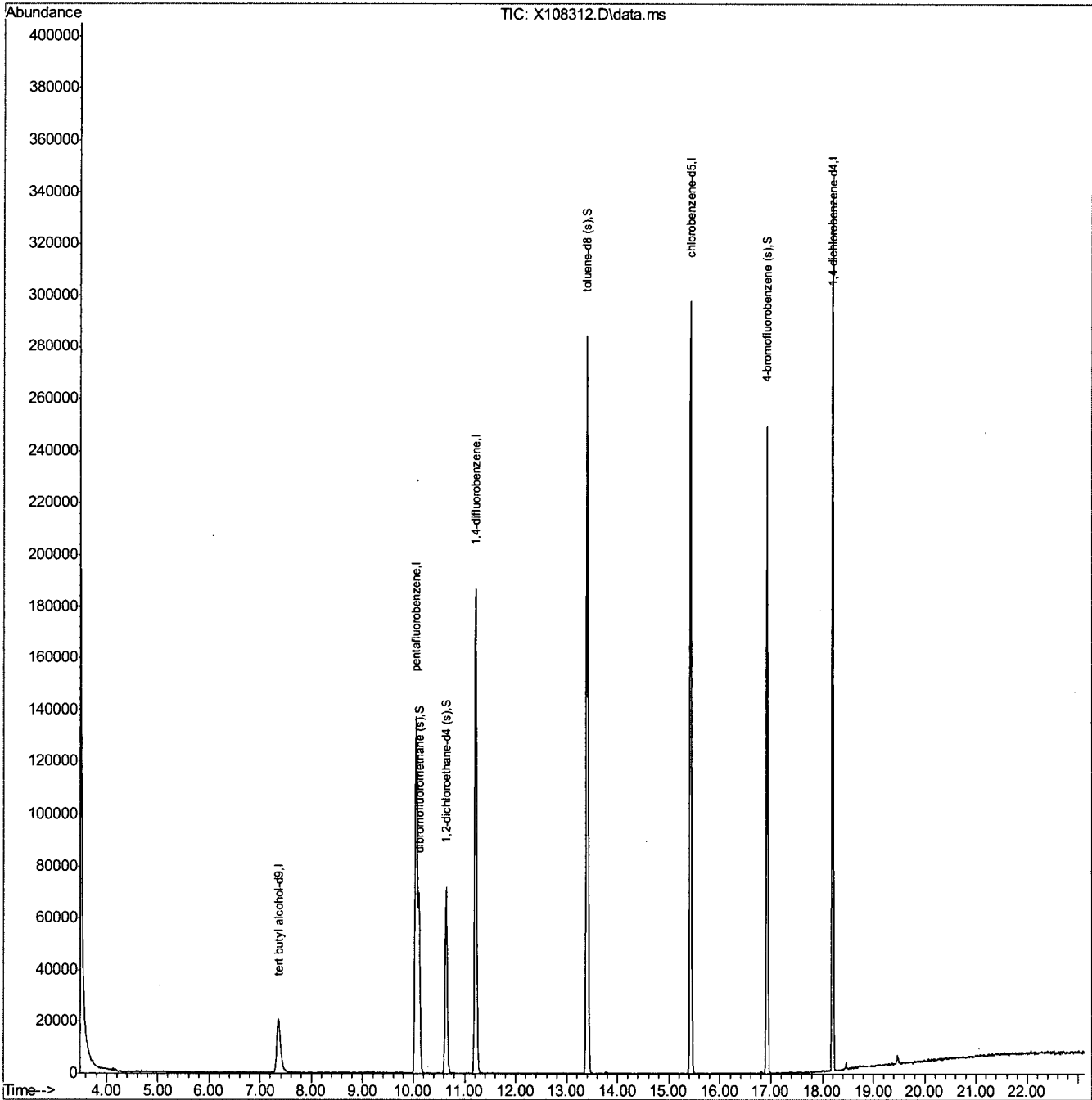
6.1.33

6

(QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
Data File : X108312.D  
Acq On    : 25 Oct 2010    7:47 pm  
Operator  : JUNTAEP  
Sample    : ja58750-14  
Misc      : MS3476,vx4577,9.7,,,,,1  
ALS Vial  : 14    Sample Multiplier: 1
```

Quant Time: Oct 27 10:12:35 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



MX4516.M Wed Oct 27 10:12:53 2010 VOA-05

Page: 2

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108260.D Vial: 10  
Acq On : 23 Oct 2010 7:26 pm Operator: JUNTAEP  
Sample : ja58750-15 Inst : MSX  
Misc : MS3476,vx4575,11.2,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:38:10 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration  
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.33	65	71542	500.00	ug/L	-0.03
6) pentafluorobenzene	10.04	168	205238	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	271790	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	249616	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	111815	50.00	ug/L	-0.02

System Monitoring Compounds

53) dibromofluoromethane (s)	10.10	113	79485	45.31	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	90.62%
54) 1,2-dichloroethane-d4 (s)	10.62	65	93741	48.50	ug/L	-0.02
Spiked Amount	50.000	Range	65 - 132	Recovery	=	97.00%
84) toluene-d8 (s)	13.39	98	320622	54.11	ug/L	-0.02
Spiked Amount	50.000	Range	74 - 129	Recovery	=	108.22%
109) 4-bromofluorobenzene (s)	16.91	95	126796	57.76	ug/L	-0.01
Spiked Amount	50.000	Range	62 - 138	Recovery	=	115.52%

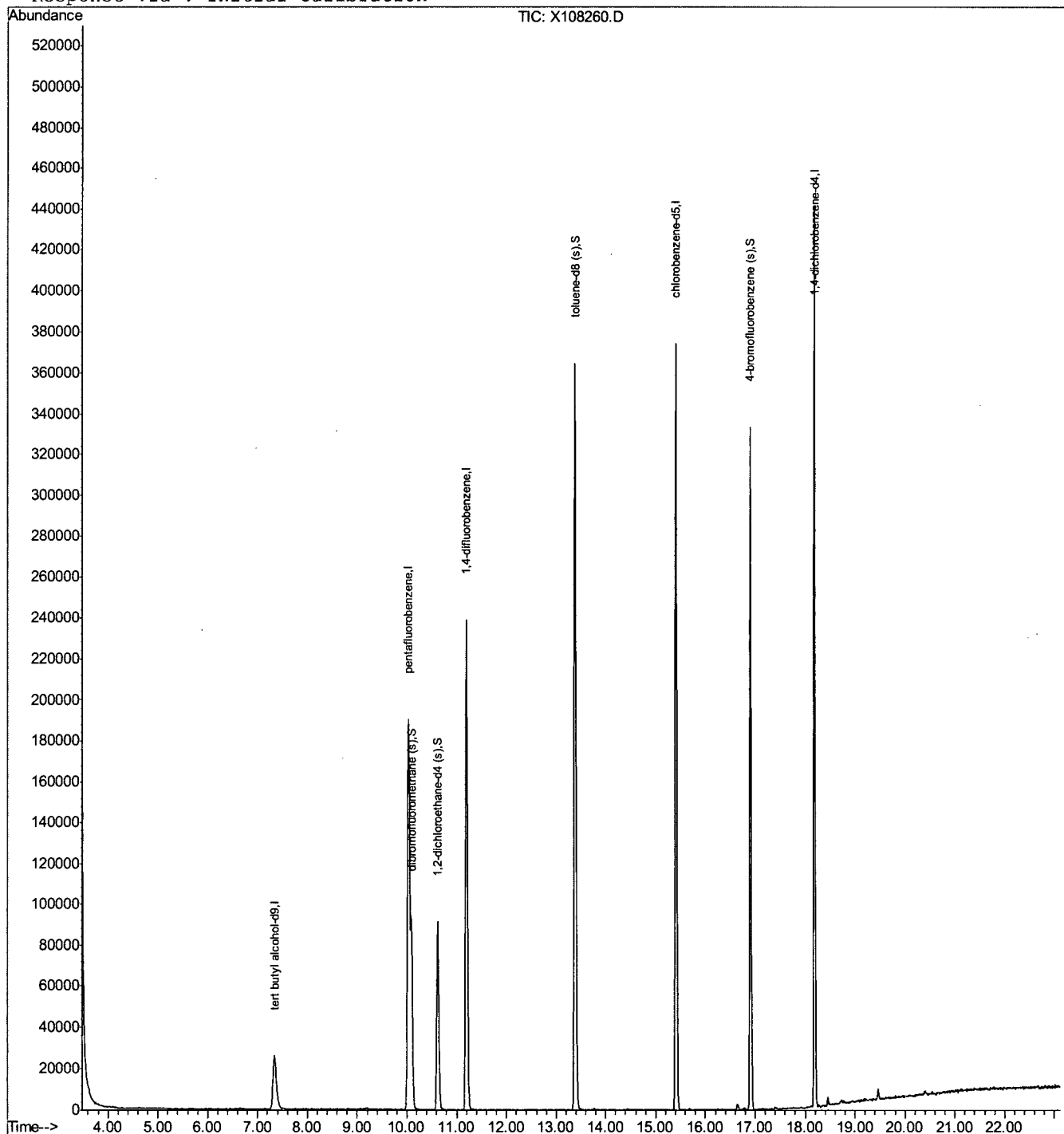
Target Compounds Qvalue

-----  
(#) = qualifier out of range (m) = manual integration (+) = signals summed  
X108260.D MX4516.M Mon Oct 25 17:11:31 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108260.D Vial: 10  
Acq On : 23 Oct 2010 7:26 pm Operator: JUNTAEP  
Sample : ja58750-15 Inst : MSX  
Misc : MS3476,vx4575,11.2,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:46 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\WX4575-4576\X108261.D Vial: 11  
Acq On : 23 Oct 2010 7:55 pm Operator: JUNTAEP  
Sample : ja58750-16 Inst : MSX  
Misc : MS3476,vx4575,8.9,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:38:15 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration  
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.35	65	67692	500.00	ug/L	-0.01
6) pentafluorobenzene	10.04	168	212558	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	280592	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	261996	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	129805	50.00	ug/L	-0.02

System Monitoring Compounds

53) dibromofluoromethane (s)	10.09	113	84079	46.28	ug/L	-0.03
Spiked Amount	50.000	Range	67 - 127	Recovery	=	92.56%
54) 1,2-dichloroethane-d4 (s)	10.62	65	98050	48.99	ug/L	-0.02
Spiked Amount	50.000	Range	65 - 132	Recovery	=	97.98%
84) toluene-d8 (s)	13.39	98	329878	53.93	ug/L	-0.02
Spiked Amount	50.000	Range	74 - 129	Recovery	=	107.86%
109) 4-bromofluorobenzene (s)	16.91	95	137901	54.11	ug/L	-0.01
Spiked Amount	50.000	Range	62 - 138	Recovery	=	108.22%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) acetone	6.64	58	2242	13.54	ug/L	94

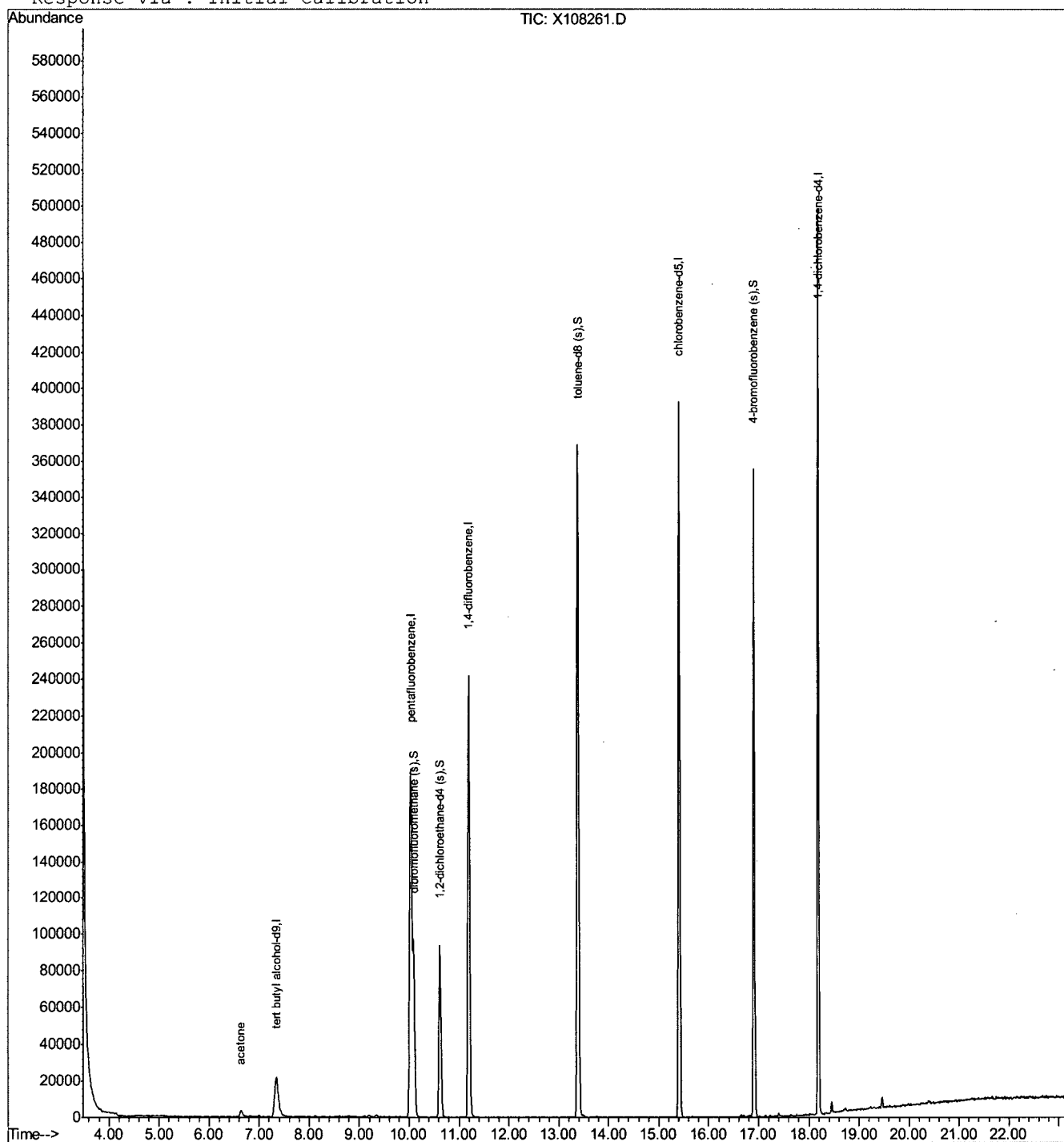
-----  
(#) = qualifier out of range (m) = manual integration (+) = signals summed  
X108261.D MX4516.M Mon Oct 25 17:11:34 2010 MSX

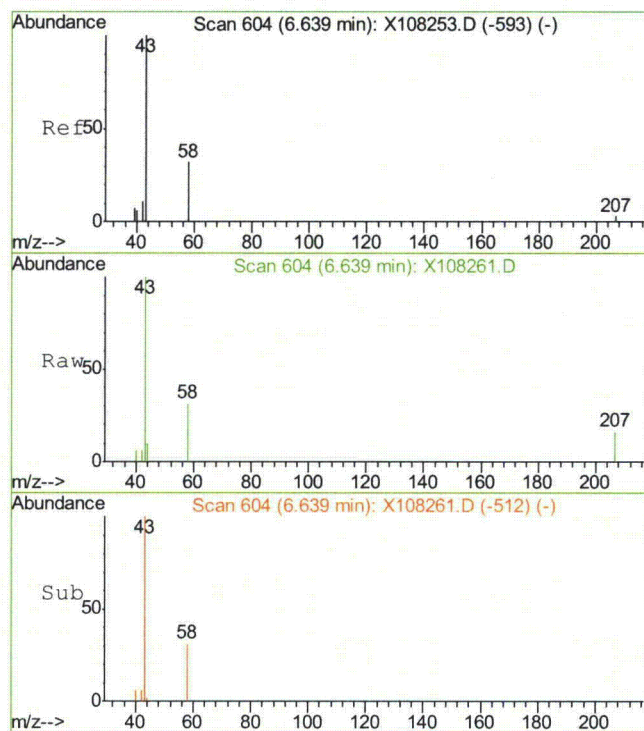


## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108261.D Vial: 11  
Acq On : 23 Oct 2010 7:55 pm Operator: JUNTAEP  
Sample : ja58750-16 Inst : MSX  
Misc : MS3476,vx4575,8.9,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:47 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration





#28

acetone

Concen: 13.54 ug/L

RT: 6.64 min Scan# 604

Delta R.T. -0.02 min

Lab File: X108261.D

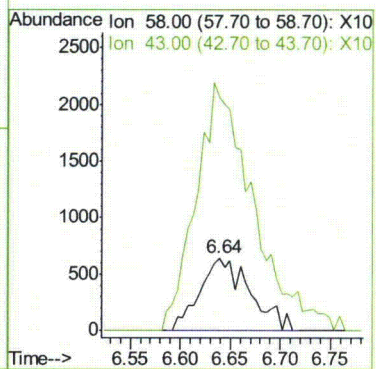
Acq: 23 Oct 2010 7:55 pm

Tgt Ion: 58 Resp: 2242

Ion Ratio Lower Upper

58 100

43 322.4 279.8 339.8



6.135

6

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108262.D Vial: 12  
 Acq On : 23 Oct 2010 8:25 pm Operator: JUNTAEP  
 Sample : ja58750-17 Inst : MSX  
 Misc : MS3476,vx4575,9.2,,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:38:19 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.33	65	73419	500.00	ug/L	-0.03
6) pentafluorobenzene	10.04	168	195311	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	256953	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	214303	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	66701	50.00	ug/L	-0.02

## System Monitoring Compounds

53) dibromofluoromethane (s)	10.09	113	79219	47.46	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	94.92%	
54) 1,2-dichloroethane-d4 (s)	10.62	65	88975	48.38	ug/L	-0.02
Spiked Amount	50.000	Range 65 - 132	Recovery	=	96.76%	
84) toluene-d8 (s)	13.39	98	296671	52.96	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	105.92%	
109) 4-bromofluorobenzene (s)	16.91	95	93432	71.34	ug/L	-0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	142.68%#	

## Target Compounds

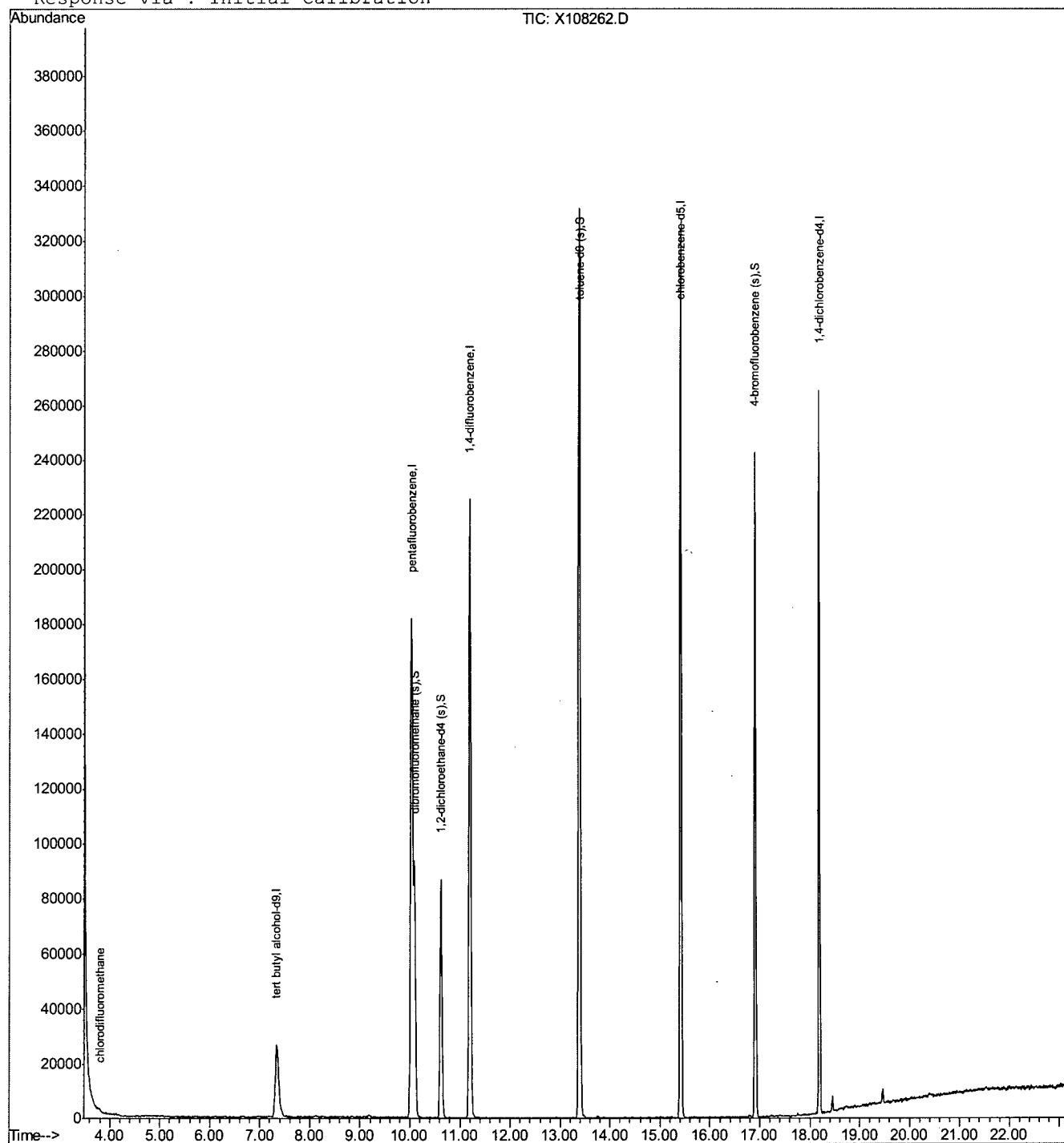
12) chlorodifluoromethane	3.80	51	2708	1.48	ug/L	Qvalue 63
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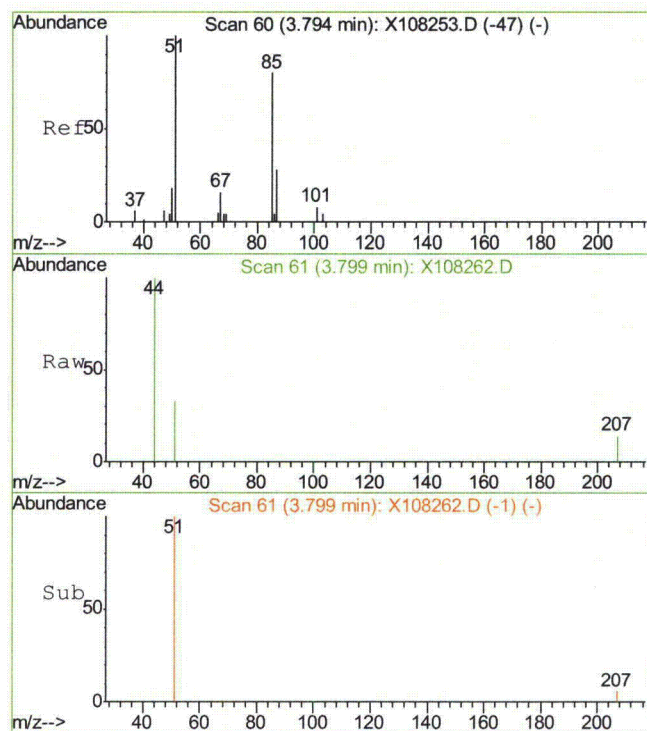
(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X108262.D MX4516.M Wed Oct 27 10:24:42 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108262.D Vial: 12  
Acq On : 23 Oct 2010 8:25 pm Operator: JUNTAEP  
Sample : ja58750-17 Inst : MSX  
Misc : MS3476,vx4575,9.2,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:47 2010 Quant Results File: MX4516.RES

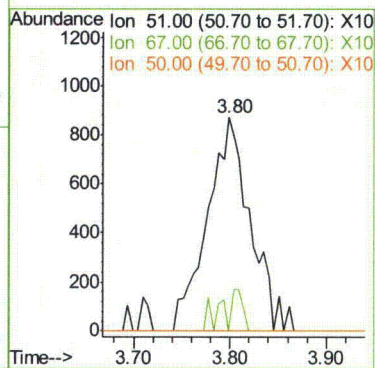
Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration





#12  
chlorodifluoromethane  
Concen: 1.48 ug/L  
RT: 3.80 min Scan# 61  
Delta R.T. -0.01 min  
Lab File: X108262.D  
Acq: 23 Oct 2010 8:25 pm

Tgt Ion: 51 Resp: 2708  
Ion Ratio Lower Upper  
51 100  
67 0.0 0.0 44.9  
50 0.0 0.0 46.3

6.1.36  
6

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
 Data File : X108313.D  
 Acq On : 25 Oct 2010 8:16 pm  
 Operator : JUNTAEP  
 Sample : ja58750-17CF  
 Misc : MS3476,vx4577,9.9,,,,,1  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 27 10:14:10 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
 Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 QLast Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.356	65	54691	500.00	ug/L	0.00
6) pentafluorobenzene	10.054	168	103208	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.221	114	139936	50.00	ug/L	0.00
92) chlorobenzene-d5	15.431	117	76549	50.00	ug/L	0.00
107) 1,4-dichlorobenzene-d4	18.208	152	11224	50.00	ug/L	0.00
System Monitoring Compounds						
53) dibromofluoromethane (s)	10.107	113	53126	60.23	ug/L	-0.01
Spiked Amount	50.000	Range 67 - 127	Recovery	= 120.46%		
54) 1,2-dichloroethane-d4 (s)	10.640	65	55685	57.30	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	= 114.60%		
84) toluene-d8 (s)	13.407	98	150225	49.24	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	= 98.48%		
109) 4-bromofluorobenzene (s)	16.927	95	21850	99.15	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	= 198.30%#		

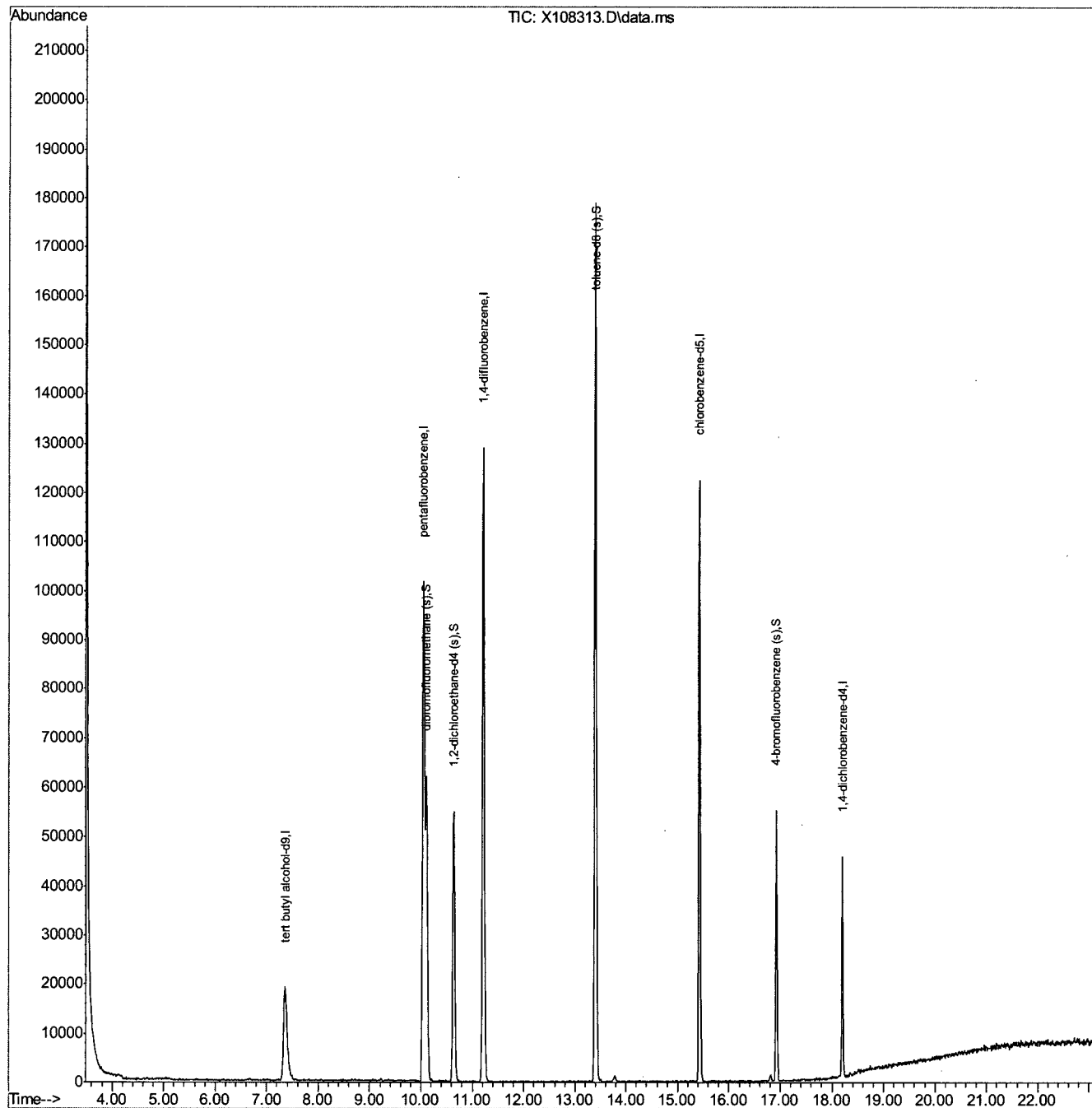
Target Compounds	Qvalue
------------------	--------

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
Data File : X108313.D  
Acq On : 25 Oct 2010 8:16 pm  
Operator : JUNTAEP  
Sample : ja58750-17CF  
Misc : MS3476,vx4577,9.9,,,1  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 27 10:14:10 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\WX4575-4576\X108263.D Vial: 13  
Acq On : 23 Oct 2010 8:53 pm Operator: JUNTAEP  
Sample : ja58750-18 Inst : MSX  
Misc : MS3476,vx4575,8.9,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:38:24 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration  
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.34	65	93013	500.00	ug/L	-0.03
6) pentafluorobenzene	10.04	168	211844	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	285856	50.00	ug/L	-0.02
92) chlorobenzene-d5	15.42	117	270819	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	131227	50.00	ug/L	-0.02

## System Monitoring Compounds

53) dibromofluoromethane (s)	10.10	113	85062	46.98	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	93.96%
54) 1,2-dichloroethane-d4 (s)	10.62	65	102217	51.24	ug/L	-0.02
Spiked Amount	50.000	Range	65 - 132	Recovery	=	102.48%
84) toluene-d8 (s)	13.39	98	337199	54.11	ug/L	-0.02
Spiked Amount	50.000	Range	74 - 129	Recovery	=	108.22%
109) 4-bromofluorobenzene (s)	16.91	95	140942	54.70	ug/L	-0.01
Spiked Amount	50.000	Range	62 - 138	Recovery	=	109.40%

## Target Compounds

28) acetone	6.64	58	2149	12.94	ug/L	Qvalue 95
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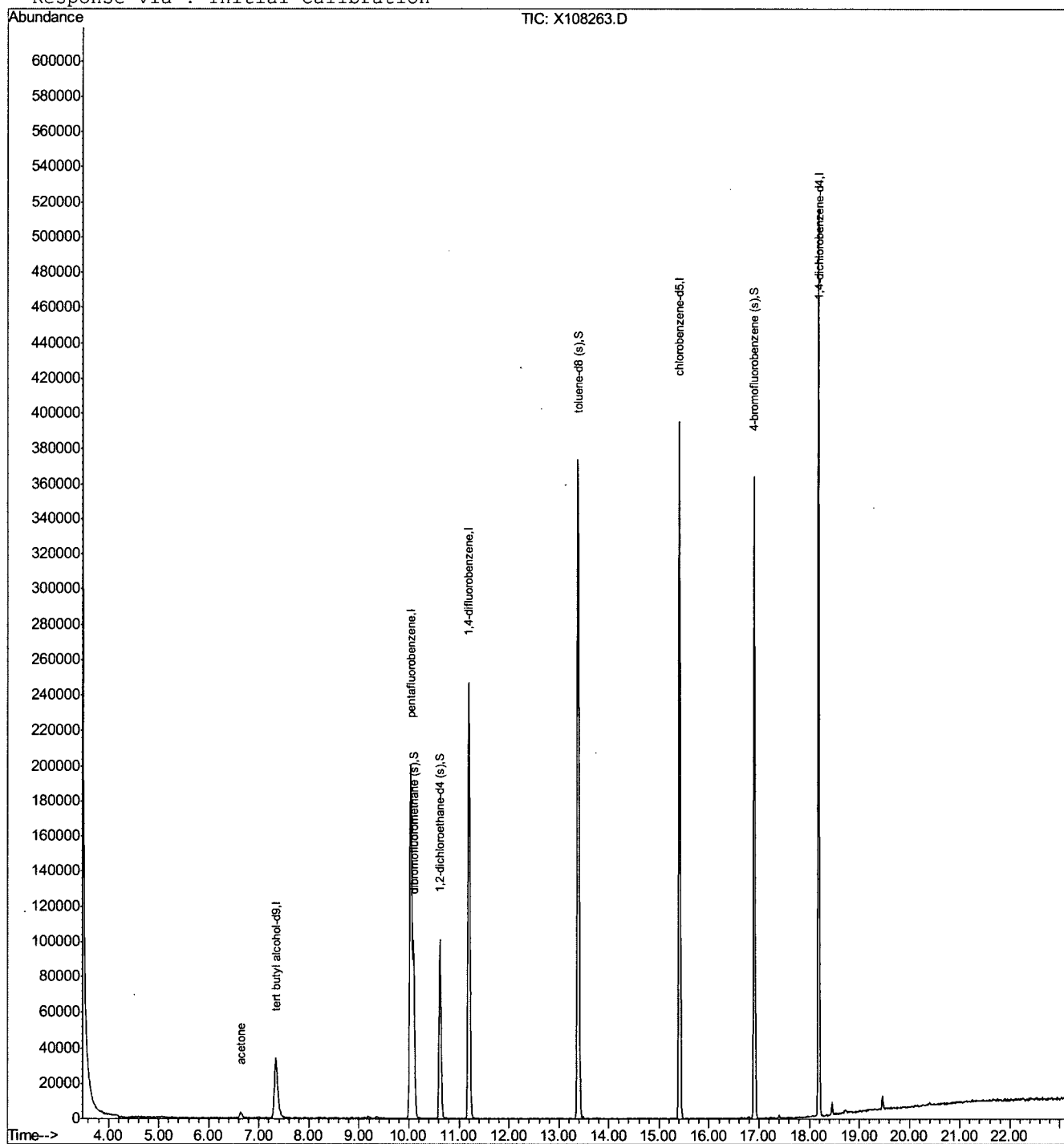
-----  
(#) = qualifier out of range (m) = manual integration (+) = signals summed  
X108263.D MX4516.M Mon Oct 25 17:11:39 2010 MSX

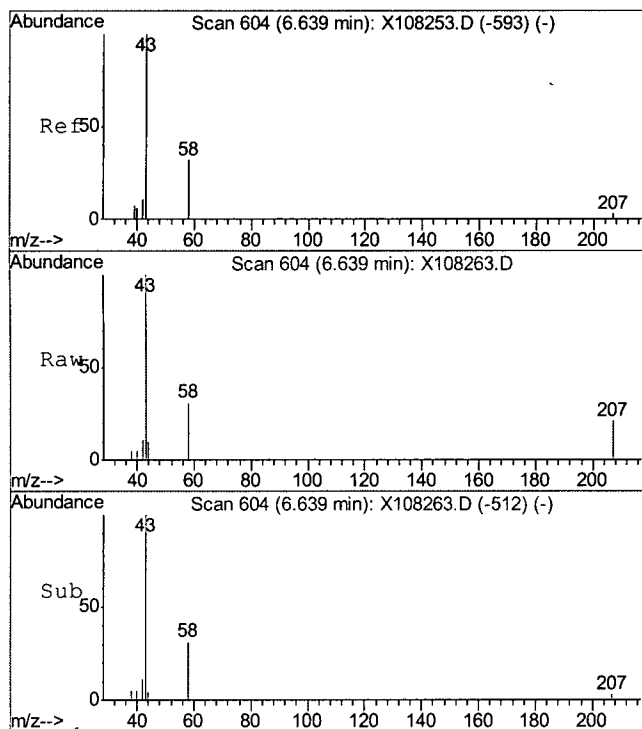


## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108263.D Vial: 13  
Acq On : 23 Oct 2010 8:53 pm Operator: JUNTAEP  
Sample : ja58750-18 Inst : MSX  
Misc : MS3476,vx4575,8.9,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:48 2010 Quant Results File: MX4516.RES

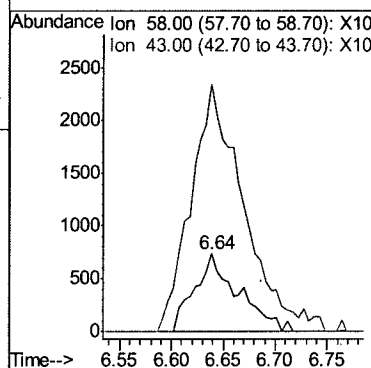
Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration





#28  
acetone  
Concen: 12.94 ug/L  
RT: 6.64 min Scan# 604  
Delta R.T. -0.02 min  
Lab File: X108263.D  
Acq: 23 Oct 2010 8:53 pm

Tgt Ion: 58 Resp: 2149  
Ion Ratio Lower Upper  
58 100  
43 320.5 279.8 339.8



6.138  
**6**

## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100537.D Vial: 2  
Acq On : 25 Oct 2010 5:43 pm Operator: kristis  
Sample : mb Inst : MSH  
Misc : ms3472,eh4373,5.0,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:39 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:39:00 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

## System Monitoring Compounds

3) Hexanol	8.24	56	11569855	113.51	ppm	0.00
Spiked Amount	50.000			Recovery	=	227.02%

## Target Compounds

Qvalue

-----  
(#) = qualifier out of range (m) = manual integration

H100537.D \ M4362EPG.M Wed Nov 03 16:39:13 2010 MSH

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100537.D

Vial: 2

Acq On : 25 Oct 2010 5:43 pm

Operator: kristis

Sample : mb

Inst : MSH

Misc : ms3472,eh4373,5.0,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:39 2010

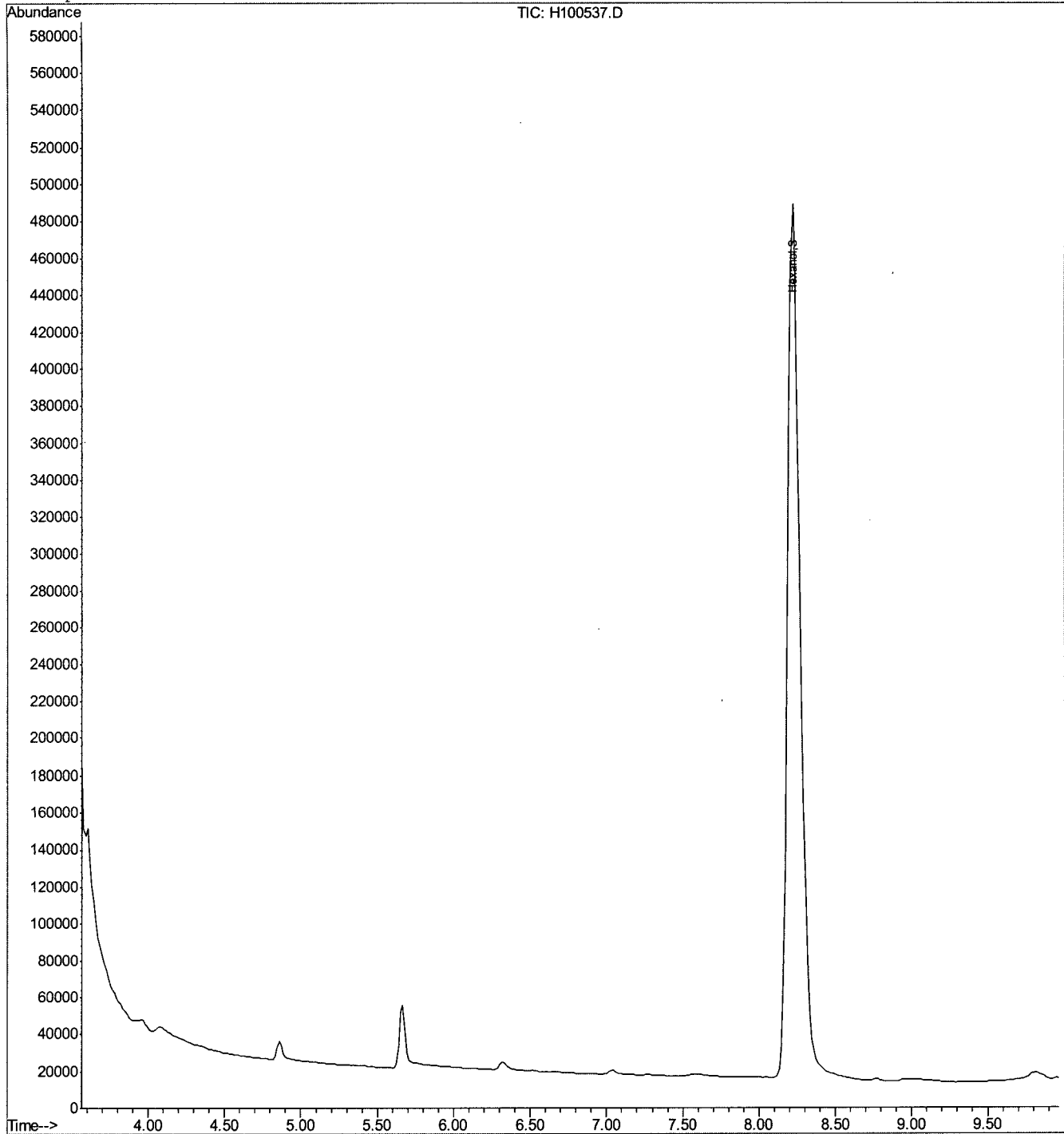
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:39:00 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100560.D Vial: 2  
Acq On : 26 Oct 2010 9:07 am Operator: kristis  
Sample : mb2 Inst : MSH  
Misc : ms3472,eh4373,5.0,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:55 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:54:48 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.23	56	6517672	63.95	ppm	-0.02
Spiked Amount	50.000			Recovery	=	127.90%
Target Compounds						Qvalue

-----  
(#) = qualifier out of range (m) = manual integration  
H100560.D M4362EPG.M Wed Nov 03 16:56:11 2010 MSH

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100560.D

Vial: 2

Acq On : 26 Oct 2010 9:07 am

Operator: kristis

Sample : mb2

Inst : MSH

Misc : ms3472,eh4373,5.0,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:55 2010

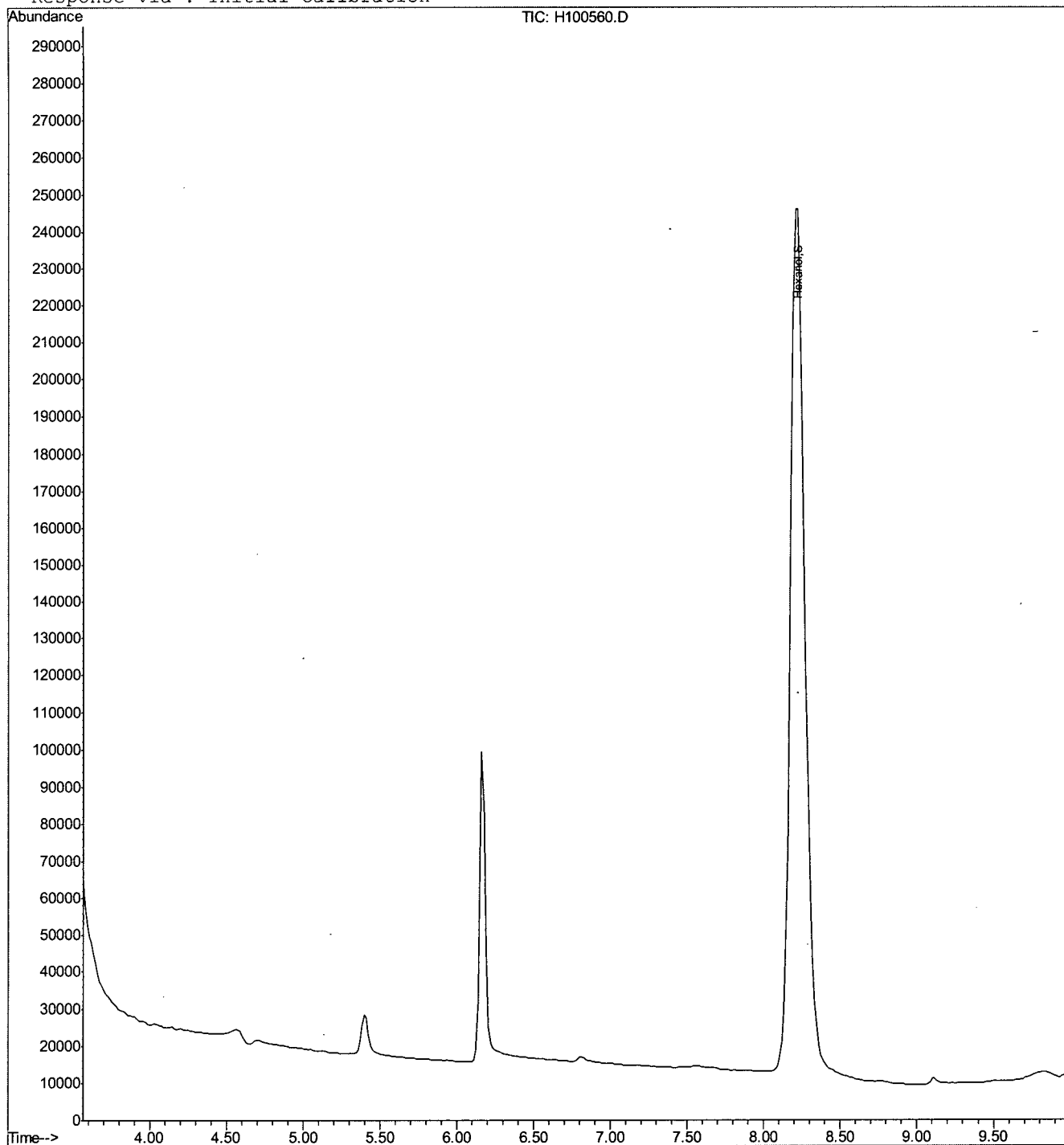
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:54:48 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108254.D Vial: 4  
 Acq On : 23 Oct 2010 4:12 pm Operator: JUNTAEP  
 Sample : mb Inst : MSX  
 Misc : MS3510,vx4573,5.0,,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:37:34 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.34	65	85342	500.00	ug/L	-0.03
6) pentafluorobenzene	10.03	168	199564	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.19	114	267327	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	257781	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	128524	50.00	ug/L	-0.02

System Monitoring Compounds

53) dibromofluoromethane (s)	10.09	113	82949	48.63	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	97.26%	
54) 1,2-dichloroethane-d4 (s)	10.62	65	99631	53.02	ug/L	-0.03
Spiked Amount	50.000	Range 65 - 132	Recovery	=	106.04%	
84) toluene-d8 (s)	13.39	98	315197	54.08	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	108.16%	
109) 4-bromofluorobenzene (s)	16.91	95	137774	54.60	ug/L	-0.01
Spiked Amount	50.000	Range 62 - 138	Recovery	=	109.20%	

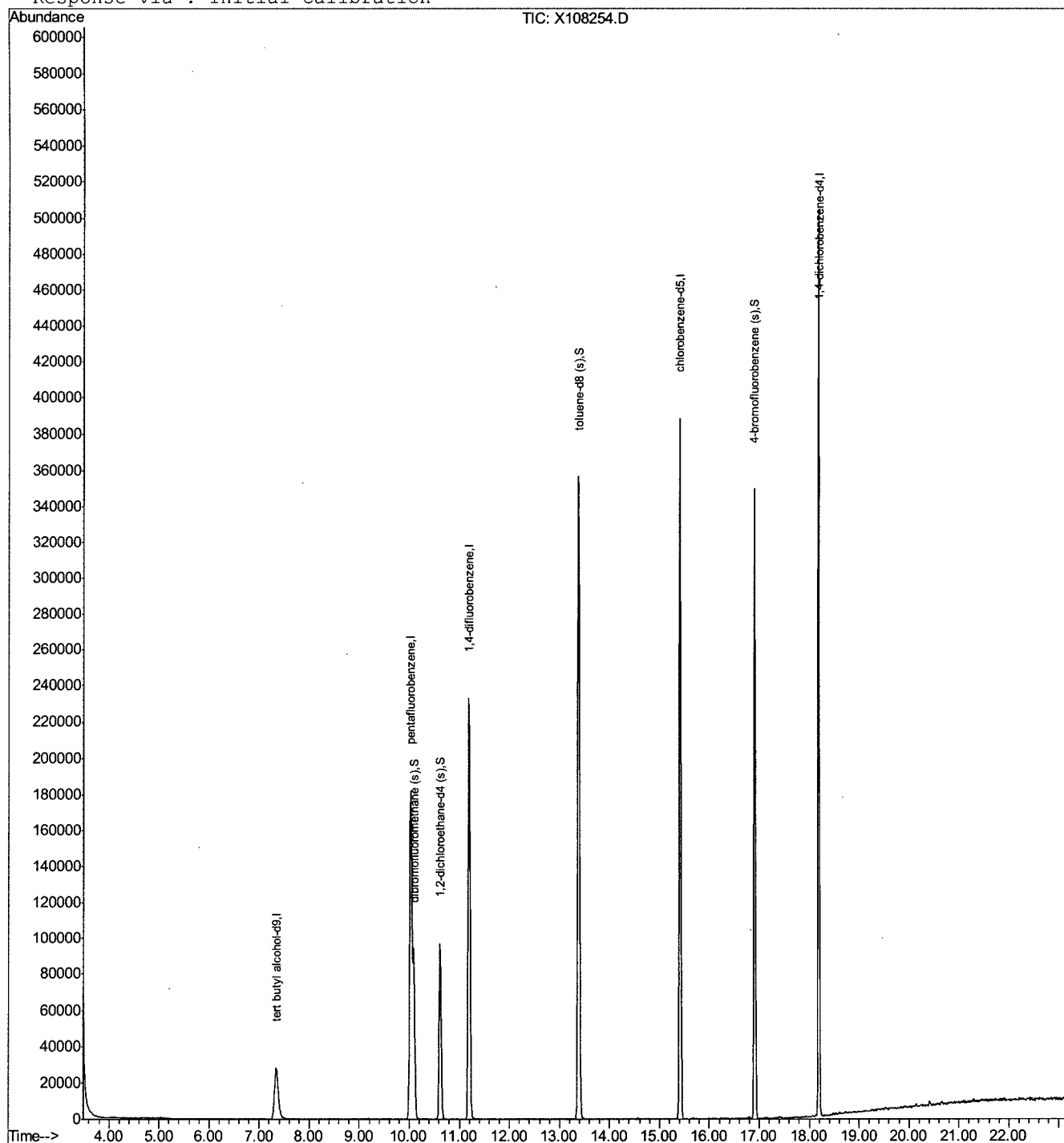
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X108254.D MX4516.M Mon Oct 25 17:11:24 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108254.D Vial: 4  
Acq On : 23 Oct 2010 4:12 pm Operator: JUNTAEP  
Sample : mb Inst : MSX  
Misc : MS3510,vx4573,5.0,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:43 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
 Data File : X108301.D  
 Acq On : 25 Oct 2010 1:50 pm  
 Operator : JUNTAEP  
 Sample : MB  
 Misc : MS3780,vx4577,5.0,,,,,1  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 16:49:06 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
 Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 QLast Update : Sat Oct 23 13:53:46 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.355	65	61749	500.00	ug/L	0.00
6) pentafluorobenzene	10.049	168	129485	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.215	114	185899	50.00	ug/L	0.00
92) chlorobenzene-d5	15.426	117	181260	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.203	152	86569	50.00	ug/L	0.00
System Monitoring Compounds						
53) dibromofluoromethane (s)	10.101	113	57184	51.67	ug/L	-0.02
Spiked Amount 50.000	Range 67 - 127		Recovery	= 103.34%		
54) 1,2-dichloroethane-d4 (s)	10.635	65	71918	58.98	ug/L	-0.01
Spiked Amount 50.000	Range 65 - 132		Recovery	= 117.96%		
84) toluene-d8 (s)	13.402	98	230725	56.93	ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery	= 113.86%		
109) 4-bromofluorobenzene (s)	16.922	95	97652	57.45	ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery	= 114.90%		

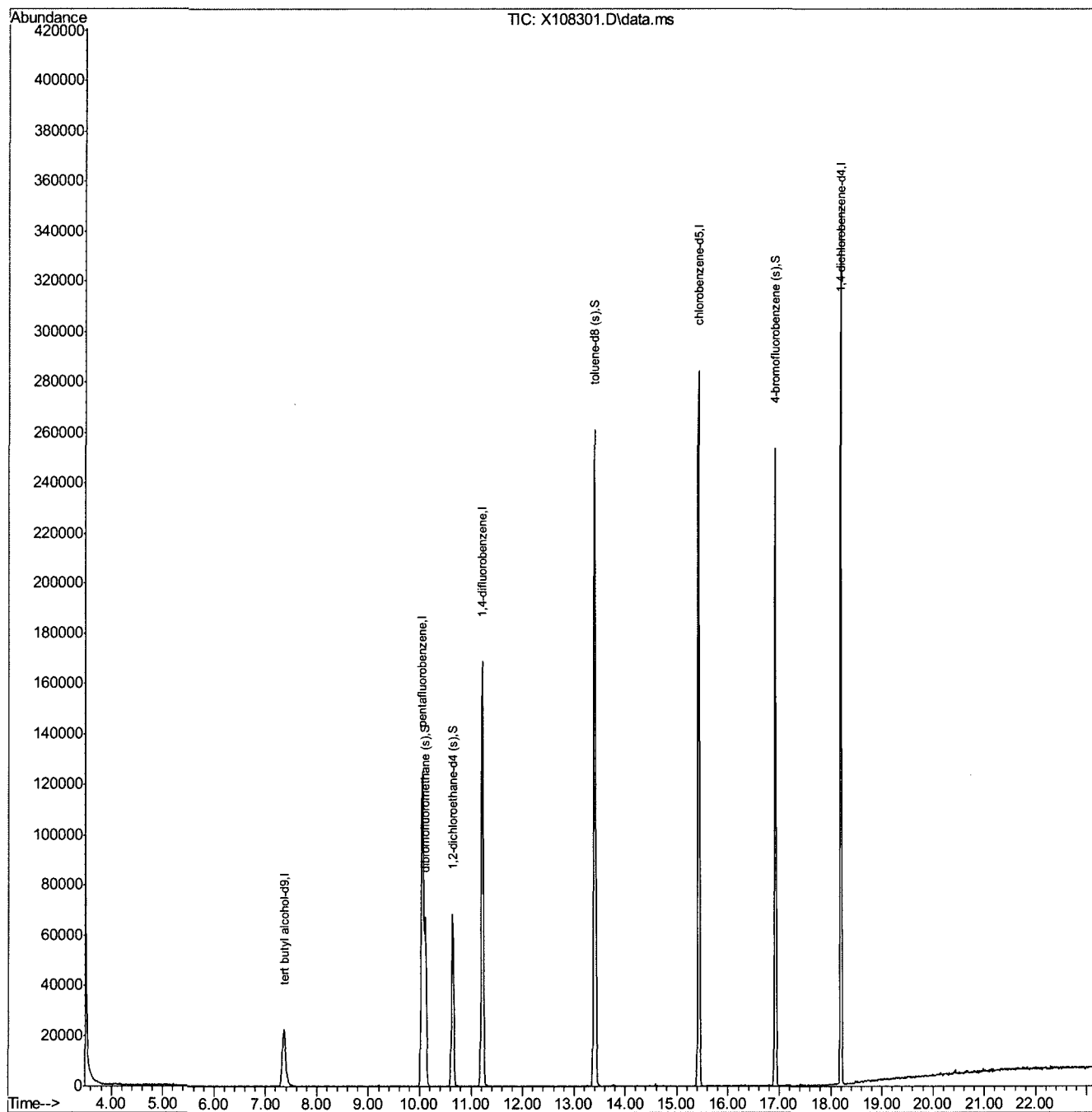
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
Data File : X108301.D  
Acq On : 25 Oct 2010 1:50 pm  
Operator : JUNTAEP  
Sample : MB  
Misc : MS3780,vx4577,5.0,,,,,1  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 16:49:06 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Sat Oct 23 13:53:46 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100538.D Vial: 3  
Acq On : 25 Oct 2010 6:34 pm Operator: kristis  
Sample : bs Inst : MSH  
Misc : ms3472,eh4373,5.0,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Oct 25 18:43 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Mon Oct 25 18:43:54 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	7.95	56	8734083	85.69	ppm	0.00
Spiked Amount	50.000		Recovery	=	171.38%	
Target Compounds						
1) Ethylene Glycol	6.05	31	720320	2.76	ppm	99
2) Propylene Glycol	6.80	45	655376	2.31	ppm	96

-----  
(#) = qualifier out of range (m) = manual integration

H100538.D M4362EPG.M Wed Nov 03 16:40:13 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100538.D

Vial: 3

Acq On : 25 Oct 2010 6:34 pm

Operator: kristis

Sample : bs

Inst : MSH

Misc : ms3472,eh4373,5.0,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 25 18:43 2010

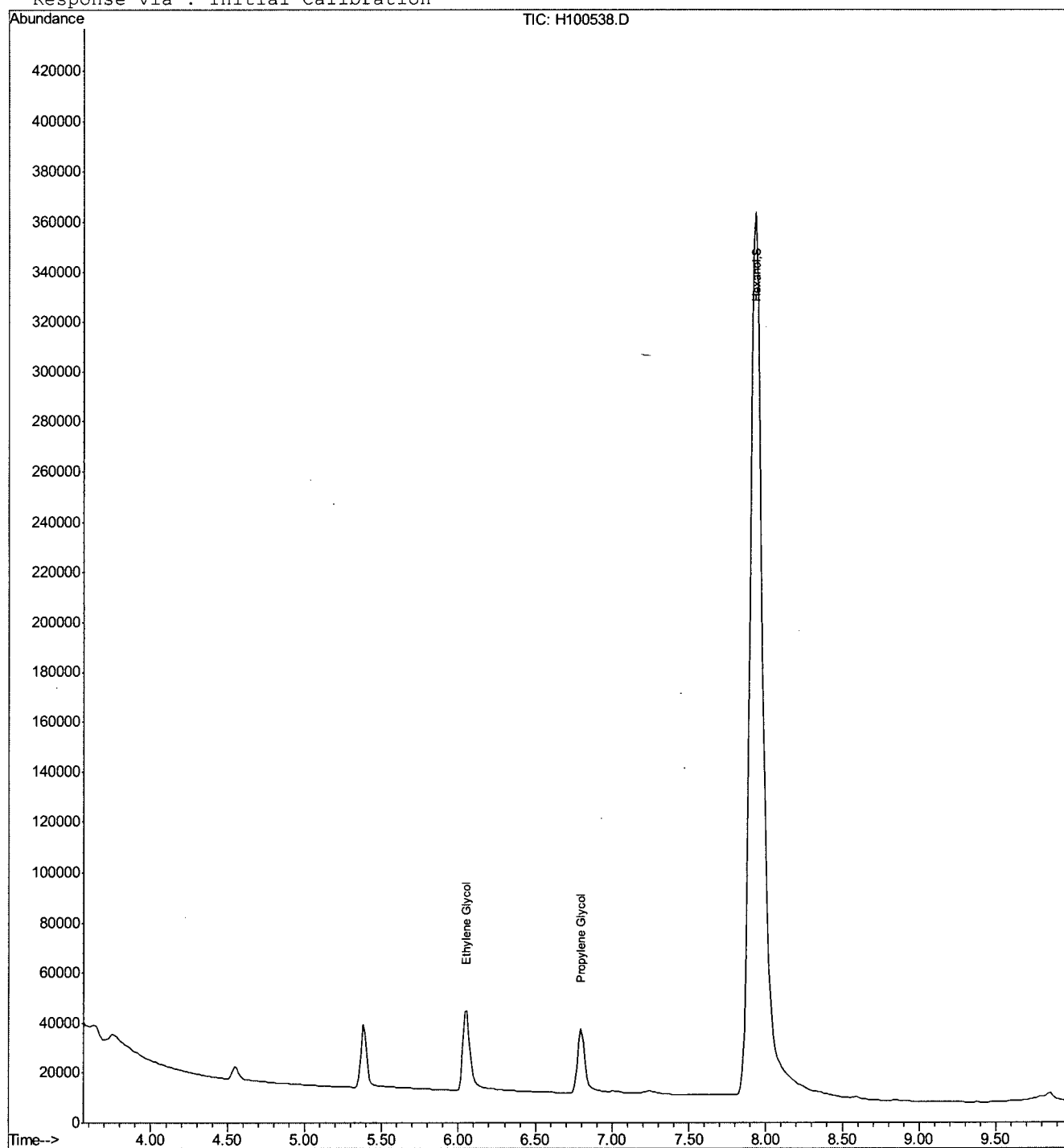
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:39:00 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100561.D Vial: 3  
Acq On : 26 Oct 2010 9:43 am Operator: kristis  
Sample : bs2 Inst : MSH  
Misc : ms3472,eh4373,5.0,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:56 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:56:31 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.19	56	6306863	61.88	ppm	0.00
Spiked Amount	50.000		Recovery	=	123.76%	
Target Compounds						
1) Ethylene Glycol	6.34	31	952475	3.65	ppm	99
2) Propylene Glycol	7.07	45	1868994	6.58	ppm	97

-----  
(#) = qualifier out of range (m) = manual integration

H100561.D M4362EPG.M Wed Nov 03 16:56:49 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100561.D

Vial: 3

Acq On : 26 Oct 2010 9:43 am

Operator: kristis

Sample : bs2

Inst : MSH

Misc : ms3472,eh4373,5.0,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:56 2010

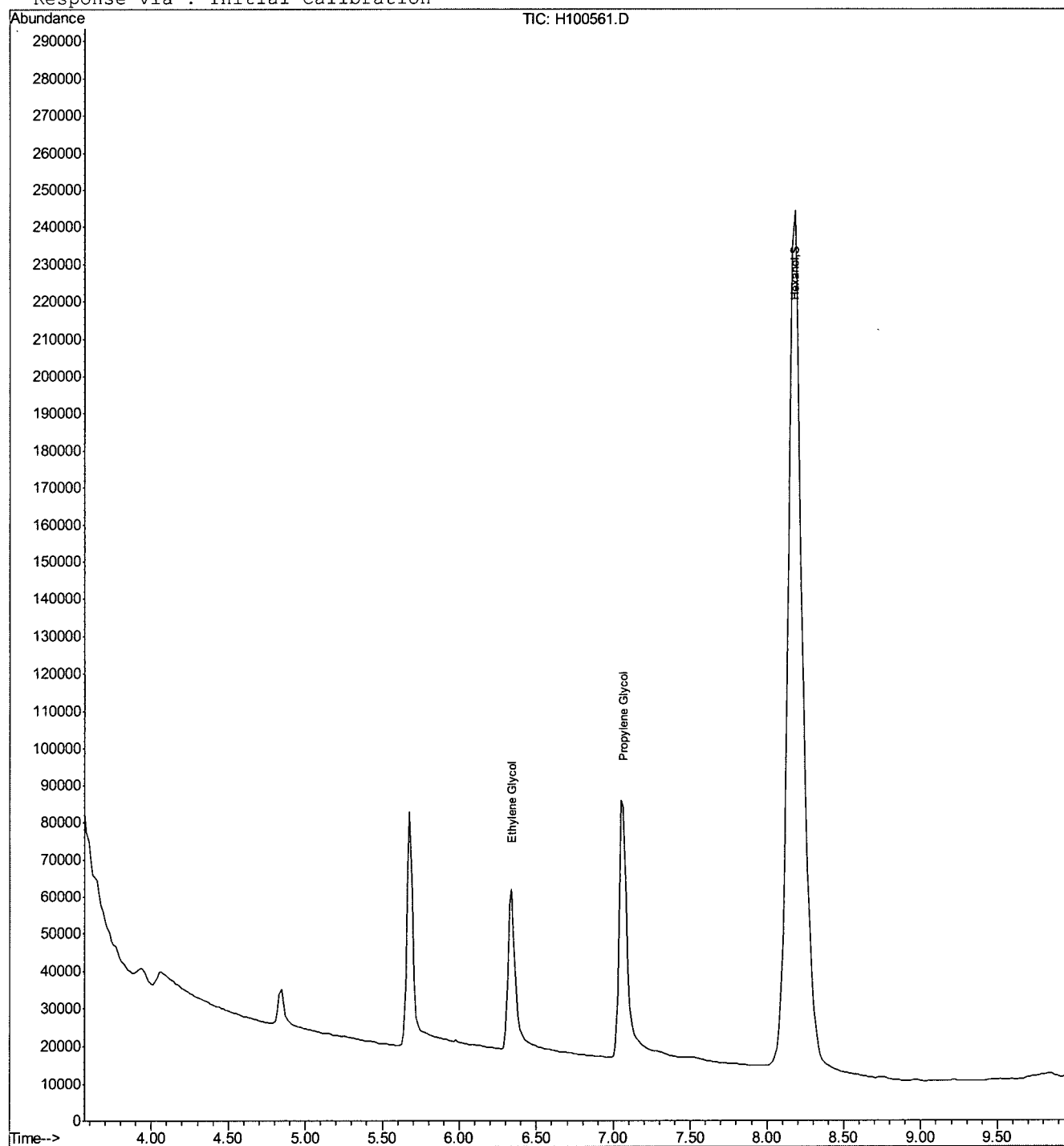
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:56:31 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108255.D Vial: 5  
 Acq On : 23 Oct 2010 4:50 pm Operator: JUNTAEP  
 Sample : bs Inst : MSX  
 Misc : MS3510,vx4573,5.0,,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:37:40 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.34	65	64399	500.00	ug/L	-0.03
6) pentafluorobenzene	10.04	168	196487	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	270327	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	257605	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	124696	50.00	ug/L	-0.02

System Monitoring Compounds						
53) dibromofluoromethane (s)	10.09	113	80108	47.70	ug/L	-0.03
Spiked Amount	50.000	Range	67 - 127	Recovery	=	95.40%
54) 1,2-dichloroethane-d4 (s)	10.62	65	90906	49.13	ug/L	-0.03
Spiked Amount	50.000	Range	65 - 132	Recovery	=	98.26%
84) toluene-d8 (s)	13.39	98	314863	53.43	ug/L	-0.02
Spiked Amount	50.000	Range	74 - 129	Recovery	=	106.86%
109) 4-bromofluorobenzene (s)	16.91	95	131831	53.85	ug/L	-0.02
Spiked Amount	50.000	Range	62 - 138	Recovery	=	107.70%

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.48	59	42291	274.24	ug/L	98
4) acrolein	6.40	56	135618	537.93	ug/L #	99
5) 1,4-dioxane	12.16	88	18661	1367.50	ug/L #	99
12) chlorodifluoromethane	3.79	51	82103	44.75	ug/L	90
13) dichlorodifluoromethane	3.77	85	155118	57.26	ug/L	97
16) chloromethane	4.11	50	156006	41.66	ug/L	99
17) vinyl chloride	4.37	62	125187	43.21	ug/L	99
19) bromomethane	5.02	94	71288	40.08	ug/L	100
20) chloroethane	5.20	64	56896	36.93	ug/L	96
21) vinyl bromide	5.56	106	81159	45.24	ug/L #	95
22) trichlorofluoromethane	5.64	101	159892	53.16	ug/L	99
23) ethyl ether	6.10	74	45730	49.78	ug/L	98
27) 1,1-dichloroethene	6.56	96	78794	45.44	ug/L	98
28) acetone	6.62	58	5665	41.03	ug/L	95
29) allyl chloride	7.15	76	50792	46.98	ug/L	90
30) acetonitrile	7.14	40	62800	418.67	ug/L #	67
31) iodomethane	6.86	142	170282	53.38	ug/L	94
32) iso-butyl alcohol	10.36	74	11699	539.06	ug/L	100
33) carbon disulfide	6.99	76	315664	46.11	ug/L	97
34) methylene chloride	7.37	84	91863	45.44	ug/L	99
35) methyl acetate	7.14	74	9276	39.63	ug/L	90
36) methyl tert butyl ether	7.73	73	446054	87.89	ug/L	98
37) trans-1,2-dichloroethene	7.79	96	82248	42.64	ug/L	99
38) di-isopropyl ether	8.43	45	299608	45.01	ug/L	80
39) 2-butanone	9.34	72	8079	47.24	ug/L	65
40) 1,1-dichloroethane	8.46	63	163614	47.01	ug/L	99
41) chloroprene	8.59	53	131964	53.97	ug/L	99
42) acrylonitrile	7.76	53	105630	204.63	ug/L	97
43) vinyl acetate	8.45	86	11195	62.45	ug/L	91
44) ethyl tert-butyl ether	9.01	59	291297	49.49	ug/L	99
45) ethyl acetate	9.36	70	8073	48.77	ug/L	65
46) 2,2-dichloropropane	9.36	77	139533	47.04	ug/L	95
47) cis-1,2-dichloroethene	9.37	96	93029	45.11	ug/L	96

(#) = qualifier out of range (m) = manual integration

X108255.D MX4516.M Mon Oct 25 16:44:11 2010 MSX

Page 1

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108255.D Vial: 5  
 Acq On : 23 Oct 2010 4:50 pm Operator: JUNTAEP  
 Sample : bs Inst : MSX  
 Misc : MS3510,vx4573,5.0,,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:37:40 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) propionitrile	9.48	54	89488	435.44	ug/L	95
49) tert-Butyl Formate	9.87	59	73678	50.41	ug/L	98
50) bromochloromethane	9.76	128	44468	51.34	ug/L	99
51) tetrahydrofuran	9.80	42	24574	42.55	ug/L	97
52) chloroform	9.84	83	156111	49.03	ug/L	98
55) freon 113	6.53	151	64982	47.87	ug/L	90
56) methacrylonitrile	9.69	41	44070	41.22	ug/L	91
57) 1,1,1-trichloroethane	10.14	97	139040	51.81	ug/L	98
58) cyclohexane	10.21	84	123218	46.84	ug/L	95
60) iso-octane	10.69	57	334863	46.98	ug/L	97
63) epichlorohydrin	12.74	57	21836	179.89	ug/L	86
64) n-butyl alcohol	11.40	56	109935	2595.97	ug/L	98
65) carbon tetrachloride	10.39	117	122845	58.19	ug/L	99
66) 1,1-dichloropropene	10.36	75	120153	52.57	ug/L	99
67) hexane	8.12	86	13698	46.28	ug/L #	83
68) benzene	10.70	78	316858	47.86	ug/L	99
69) tert-amyl methyl ether	10.75	73	218460	48.25	ug/L	97
70) heptane	10.92	57	65099	49.81	ug/L	96
71) isopropyl acetate	10.63	43	212528	56.05	ug/L	98
72) 1,2-dichloroethane	10.74	62	102477	56.01	ug/L	99
73) trichloroethene	11.63	130	93693	55.46	ug/L	97
76) 2-nitropropane	12.71	46	2140	95.63	ug/L #	1
77) 2-chloroethyl vinyl ether	12.74	63	112443	186.69	ug/L	98
78) methyl methacrylate	12.03	69	43441	47.99	ug/L	96
79) 1,2-dichloropropane	11.99	63	90786	50.90	ug/L	99
80) dibromomethane	12.21	93	51400	57.94	ug/L	95
81) methylcyclohexane	11.91	83	139470	50.30	ug/L	96
82) bromodichloromethane	12.39	83	125044	56.53	ug/L	98
83) cis-1,3-dichloropropene	13.01	75	156832	53.39	ug/L	96
85) 4-methyl-2-pentanone	13.16	58	28539	51.55	ug/L	96
86) toluene	13.49	92	213984	49.03	ug/L	98
87) 3-methyl-1-butanol	13.21	55	70116	1001.05	ug/L	94
88) trans-1,3-dichloropropene	13.78	75	135129	53.09	ug/L	98
89) ethyl methacrylate	13.79	69	90875	47.44	ug/L	100
90) 1,1,2-trichloroethane	14.07	83	62389	53.25	ug/L	98
91) 2-hexanone	14.32	58	24211	46.73	ug/L	96
93) 3,3-Dimethyl-1-butanol	14.57	57	68910	463.31	ug/L	98
94) tetrachloroethene	14.26	164	81709	54.14	ug/L	96
95) 1,3-dichloropropane	14.31	76	111826	47.51	ug/L	97
96) butyl acetate	14.43	56	49202	46.76	ug/L	97
97) dibromochloromethane	14.65	129	92942	54.51	ug/L	98
98) 1,2-dibromoethane	14.84	107	74945	52.87	ug/L	96
100) chlorobenzene	15.46	112	233377	51.22	ug/L	99
101) 1,1,1,2-tetrachloroethane	15.55	131	86311	53.78	ug/L	97
102) ethylbenzene	15.54	91	384703	47.78	ug/L	99
103) m,p-xylene	15.68	106	298733	95.81	ug/L	100
104) o-xylene	16.23	106	166178	51.02	ug/L	96
105) styrene	16.25	104	249273	47.76	ug/L	98
106) bromoform	16.58	173	64032	57.40	ug/L	96

(#) = qualifier out of range (m) = manual integration

X108255.D MX4516.M Mon Oct 25 16:44:12 2010 MSX

Page 2



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108255.D Vial: 5  
 Acq On : 23 Oct 2010 4:50 pm Operator: JUNTAEP  
 Sample : bs Inst : MSX  
 Misc : MS3510,vx4573,5.0,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:37:40 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

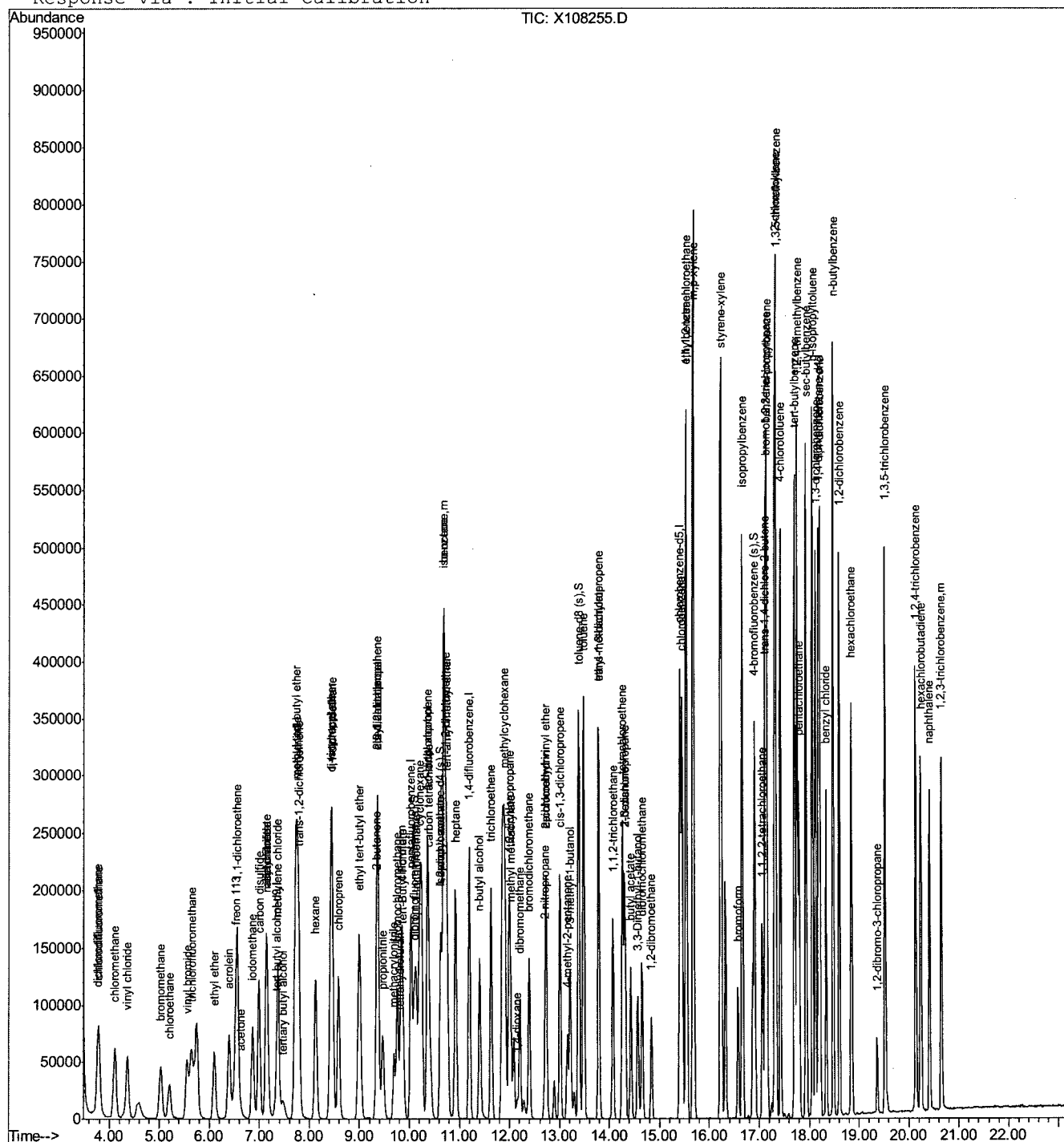
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
108) isopropylbenzene	16.67	105	415186	48.35	ug/L	99
110) bromobenzene	17.13	156	104670	50.77	ug/L	97
111) 1,1,2,2-tetrachloroethane	17.06	83	96304	50.54	ug/L	98
112) trans-1,4-dichloro-2-buten	17.11	53	29026	54.16	ug/L	89
113) 1,2,3-trichloropropane	17.14	110	19993	48.75	ug/L	98
114) n-propylbenzene	17.16	91	458732	45.90	ug/L	97
116) 2-chlorotoluene	17.31	126	103160	51.03	ug/L	98
117) 4-chlorotoluene	17.43	91	320216	50.43	ug/L	99
118) 1,3,5-trimethylbenzene	17.33	105	331224	47.89	ug/L	100
119) tert-butylbenzene	17.71	119	310082	50.71	ug/L	95
120) pentachloroethane	17.80	167	64815	56.82	ug/L	97
121) 1,2,4-trimethylbenzene	17.76	105	352140	48.92	ug/L	99
123) sec-butylbenzene	17.94	105	459494	50.18	ug/L	99
124) 1,3-dichlorobenzene	18.13	146	203520	51.60	ug/L	98
125) p-isopropyltoluene	18.07	119	383715	51.09	ug/L	98
126) 1,4-dichlorobenzene	18.22	146	196145	52.40	ug/L	98
127) 1,2-dichlorobenzene	18.61	146	192321	53.42	ug/L	99
128) benzyl chloride	18.34	91	200814	53.69	ug/L	99
130) n-butylbenzene	18.49	92	216359	53.79	ug/L	98
132) 1,2-dibromo-3-chloropropan	19.36	75	18191	52.97	ug/L	95
133) 1,3,5-trichlorobenzene	19.53	180	164290	55.69	ug/L	98
134) hexachlorobutadiene	20.24	225	80618	56.44	ug/L	98
135) naphthalene	20.42	128	231147	55.37	ug/L	99
136) 1,2,4-trichlorobenzene	20.14	180	136663	59.17	ug/L	98
137) 1,2,3-trichlorobenzene	20.66	180	113973	60.18	ug/L	99
138) hexachloroethane	18.85	201	76495	58.82	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X108255.D MX4516.M Mon Oct 25 16:44:12 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\WX4575-4576\X108255.D Vial: 5  
Acq On : 23 Oct 2010 4:50 pm Operator: JUNTAEP  
Sample : bs Inst : MSX  
Misc : MS3510,vx4573,5.0,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:37 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
 Data File : X108302.D  
 Acq On : 25 Oct 2010 2:36 pm  
 Operator : JUNTAEP  
 Sample : bs  
 Misc : MS3780,vx4577,5.0,,,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 16:49:59 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
 Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Qlast Update : Sat Oct 23 13:53:46 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.350	65	52570	500.00	ug/L	-0.01
6) pentafluorobenzene	10.049	168	119054	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.210	114	176161	50.00	ug/L	-0.01
92) chlorobenzene-d5	15.426	117	178002	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.203	152	83454	50.00	ug/L	0.00
System Monitoring Compounds						
53) dibromofluoromethane (s)	10.101	113	54079	53.15	ug/L	-0.02
Spiked Amount	50.000	Range 67 - 127	Recovery	=	106.30%	
54) 1,2-dichloroethane-d4 (s)	10.630	65	65159	58.12	ug/L	-0.02
Spiked Amount	50.000	Range 65 - 132	Recovery	=	116.24%	
84) toluene-d8 (s)	13.396	98	215519	56.12	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	112.24%	
109) 4-bromofluorobenzene (s)	16.922	95	91196	55.66	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	111.32%	
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	7.486	59	31582	250.88	ug/L	87
4) acrolein	6.409	56	107349	521.62	ug/L #	98
5) 1,4-dioxane	12.167	88	11999	1101.53	ug/L #	90
12) chlorodifluoromethane	3.809	51	51988	46.77	ug/L	98
13) dichlorodifluoromethane	3.794	85	73951	45.05	ug/L	98
16) chloromethane	4.118	50	93201	41.07	ug/L	97
17) vinyl chloride	4.374	62	71145	40.53	ug/L	99
19) bromomethane	5.039	94	39108	36.29	ug/L	94
20) chloroethane	5.222	64	34986	37.48	ug/L	97
21) vinyl bromide	5.577	106	49541	45.57	ug/L #	96
22) trichlorofluoromethane	5.661	101	94808	52.02	ug/L	94
23) ethyl ether	6.116	74	30645	55.06	ug/L	98
27) 1,1-dichloroethene	6.571	96	49990	47.58	ug/L	87
28) acetone	6.644	58	4964	60.36	ug/L #	85
29) allyl chloride	7.162	76	34247	52.28	ug/L #	87
30) acetonitrile	7.146	40	50419	554.75	ug/L	95
31) iodomethane	6.880	142	98759	51.09	ug/L	93
32) iso-butyl alcohol	10.373	74	6063	465.99	ug/L	100
33) carbon disulfide	7.005	76	197204	47.54	ug/L	95
34) methylene chloride	7.387	84	59255	48.38	ug/L	90
35) methyl acetate	7.152	74	6461	45.56	ug/L #	88
36) methyl tert butyl ether	7.743	73	316974	103.07	ug/L	100
37) trans-1,2-dichloroethene	7.805	96	44731	38.27	ug/L	95
38) di-isopropyl ether	8.443	45	217849	54.01	ug/L	84
39) 2-butanone	9.348	72	6062	58.79	ug/L	88
40) 1,1-dichloroethane	8.475	63	110421	52.36	ug/L	99
41) chloroprene	8.600	53	84381	56.96	ug/L	96
42) acrylonitrile	7.774	53	82046	262.31	ug/L	99
43) vinyl acetate	8.464	86	7331	67.50	ug/L	98
44) ethyl tert-butyl ether	9.019	59	201244	56.43	ug/L	98
45) ethyl acetate	9.374	70	5504	54.88	ug/L #	79
46) 2,2-dichloropropane	9.369	77	94677	52.68	ug/L	93

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
Data File : X108302.D  
Acq On : 25 Oct 2010 2:36 pm  
Operator : JUNTAEF  
Sample : bs  
Misc : MS3780,vx4577,5.0,,,,,1  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 16:49:59 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Sat Oct 23 13:53:46 2010  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) cis-1,2-dichloroethene	9.380	96	64660	51.75	ug/L	95
48) propionitrile	9.489	54	66451	533.64	ug/L	99
49) tert-Butyl Formate	9.887	59	47259	53.36	ug/L #	85
50) bromochloromethane	9.772	128	27360	52.13	ug/L	88
51) tetrahydrofuran	9.814	42	18920	54.07	ug/L	98
52) chloroform	9.850	83	102049	52.89	ug/L	97
55) freon 113	6.545	151	37910	46.09	ug/L	97
56) methacrylonitrile	9.709	41	33462	51.65	ug/L	96
57) 1,1,1-trichloroethane	10.149	97	88109	54.18	ug/L	97
58) cyclohexane	10.222	84	76873	48.23	ug/L	90
60) iso-octane	10.703	57	220607	51.08	ug/L	95
63) epichlorohydrin	12.748	57	19163	242.26	ug/L	86
64) n-butyl alcohol	11.414	56	78473	2843.57	ug/L	93
65) carbon tetrachloride	10.400	117	77892	56.62	ug/L	97
66) 1,1-dichloropropene	10.373	75	76180	51.15	ug/L	96
67) hexane	8.135	86	7831	40.60	ug/L	95
68) benzene	10.708	78	201792	46.77	ug/L	99
69) tert-amyl methyl ether	10.766	73	149974	50.83	ug/L	97
70) heptane	10.938	57	40365	47.39	ug/L	94
71) isopropyl acetate	10.645	43	144051	58.29	ug/L	99
72) 1,2-dichloroethane	10.745	62	70253	58.92	ug/L	97
73) trichloroethene	11.644	130	55025	49.98	ug/L	97
76) 2-nitropropane	12.727	46	1016	71.21	ug/L #	11
77) 2-chloroethyl vinyl ether	12.748	63	97090	247.37	ug/L	98
78) methyl methacrylate	12.037	69	31015	52.58	ug/L	89
79) 1,2-dichloropropane	12.005	63	61892	53.25	ug/L	98
80) dibromomethane	12.220	93	33021	57.12	ug/L	100
81) methylcyclohexane	11.916	83	87234	48.28	ug/L	92
82) bromodichloromethane	12.408	83	82251	57.06	ug/L	100
83) cis-1,3-dichloropropene	13.025	75	103563	54.10	ug/L	92
85) 4-methyl-2-pentanone	13.172	58	22251	61.67	ug/L	100
86) toluene	13.496	92	134330	47.23	ug/L	99
87) 3-methyl-1-butanol	13.229	55	52222	1144.12	ug/L	96
88) trans-1,3-dichloropropene	13.794	75	93265	56.23	ug/L	96
89) ethyl methacrylate	13.799	69	68408	54.80	ug/L	97
90) 1,1,2-trichloroethane	14.082	83	42536	55.71	ug/L	96
91) 2-hexanone	14.327	58	19643	58.18	ug/L	99
93) 3,3-Dimethyl-1-butanol	14.579	57	52340	509.27	ug/L	100
94) tetrachloroethene	14.280	164	46486	44.58	ug/L	98
95) 1,3-dichloropropane	14.322	76	79140	48.66	ug/L	89
96) butyl acetate	14.437	56	36183	49.77	ug/L	92
97) dibromochloromethane	14.662	129	58542	49.69	ug/L	98
98) 1,2-dibromoethane	14.851	107	49275	50.30	ug/L	99
100) chlorobenzene	15.468	112	150334	47.75	ug/L	95
101) 1,1,1,2-tetrachloroethane	15.557	131	55670	50.20	ug/L	98
102) ethylbenzene	15.546	91	251177	45.14	ug/L	98
103) m,p-xylene	15.693	106	190247	88.30	ug/L	97
104) o-xylene	16.237	106	106874	47.49	ug/L	94
105) styrene	16.257	104	162235	44.99	ug/L	93
106) bromoform	16.587	173	41785	54.21	ug/L	97

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
 Data File : X108302.D  
 Acq On : 25 Oct 2010 2:36 pm  
 Operator : JUNTAEP  
 Sample : bs  
 Misc : MS3780,vx4577,5.0,,,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 16:49:59 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
 Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 QLast Update : Sat Oct 23 13:53:46 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) isopropylbenzene	16.676	105	273772	47.64	ug/L	98
110) bromobenzene	17.136	156	64830	46.98	ug/L	87
111) 1,1,2,2-tetrachloroethane	17.073	83	67945	53.28	ug/L	98
112) trans-1,4-dichloro-2-b...	17.120	53	23941	66.75	ug/L	84
113) 1,2,3-trichloropropane	17.147	110	14578	53.11	ug/L #	94
114) n-propylbenzene	17.162	91	299963	44.84	ug/L	98
116) 2-chlorotoluene	17.324	126	65243	48.22	ug/L	91
117) 4-chlorotoluene	17.439	91	207104	48.73	ug/L	95
118) 1,3,5-trimethylbenzene	17.340	105	221643	47.88	ug/L	97
119) tert-butylbenzene	17.722	119	200481	48.99	ug/L	94
120) pentachloroethane	17.811	167	43896	57.50	ug/L	99
121) 1,2,4-trimethylbenzene	17.769	105	233148	48.40	ug/L	98
123) sec-butylbenzene	17.947	105	299837	48.92	ug/L	97
124) 1,3-dichlorobenzene	18.140	146	128993	48.87	ug/L	98
125) p-isopropyltoluene	18.078	119	254978	50.72	ug/L	95
126) 1,4-dichlorobenzene	18.229	146	122978	49.09	ug/L	98
127) 1,2-dichlorobenzene	18.616	146	123891	51.42	ug/L	97
128) benzyl chloride	18.355	91	139967	55.91	ug/L	96
130) n-butylbenzene	18.491	92	144436	53.66	ug/L	99
132) 1,2-dibromo-3-chloropr...	19.375	75	13996	60.90	ug/L	83
133) 1,3,5-trichlorobenzene	19.537	180	104159	52.76	ug/L	98
134) hexachlorobutadiene	20.253	225	49365	51.64	ug/L	98
135) naphthalene	20.426	128	156721	56.09	ug/L	97
136) 1,2,4-trichlorobenzene	20.149	180	86576	56.01	ug/L	96
137) 1,2,3-trichlorobenzene	20.661	180	73592	58.07	ug/L	100
138) hexachloroethane	18.857	201	47985	55.13	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100539.D Vial: 4  
Acq On : 25 Oct 2010 7:24 pm Operator: kristis  
Sample : ja58750-11ms Inst : MSH  
Misc : ms3472,eh4373,5.07,,,1,1 Multiplr: 1181.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:40 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:40:36 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.06	56	4962649	48.69	ppm	0.00
Spiked Amount	50.000			Recovery	=	97.38%
Target Compounds						
1) Ethylene Glycol	6.53	31	416278	1882.89	ppm	Qvalue 99
2) Propylene Glycol	7.22	45	725658	3016.93	ppm	97

-----  
(#) = qualifier out of range (m) = manual integration  
H100539.D M4362EPG.M Wed Nov 03 16:41:00 2010 MSH

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100539.D

Vial: 4

Acq On : 25 Oct 2010 7:24 pm

Operator: kristis

Sample : ja58750-11ms

Inst : MSH

Misc : ms3472,eh4373,5.07,,,1,1

Multiplr: 1181.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:40 2010

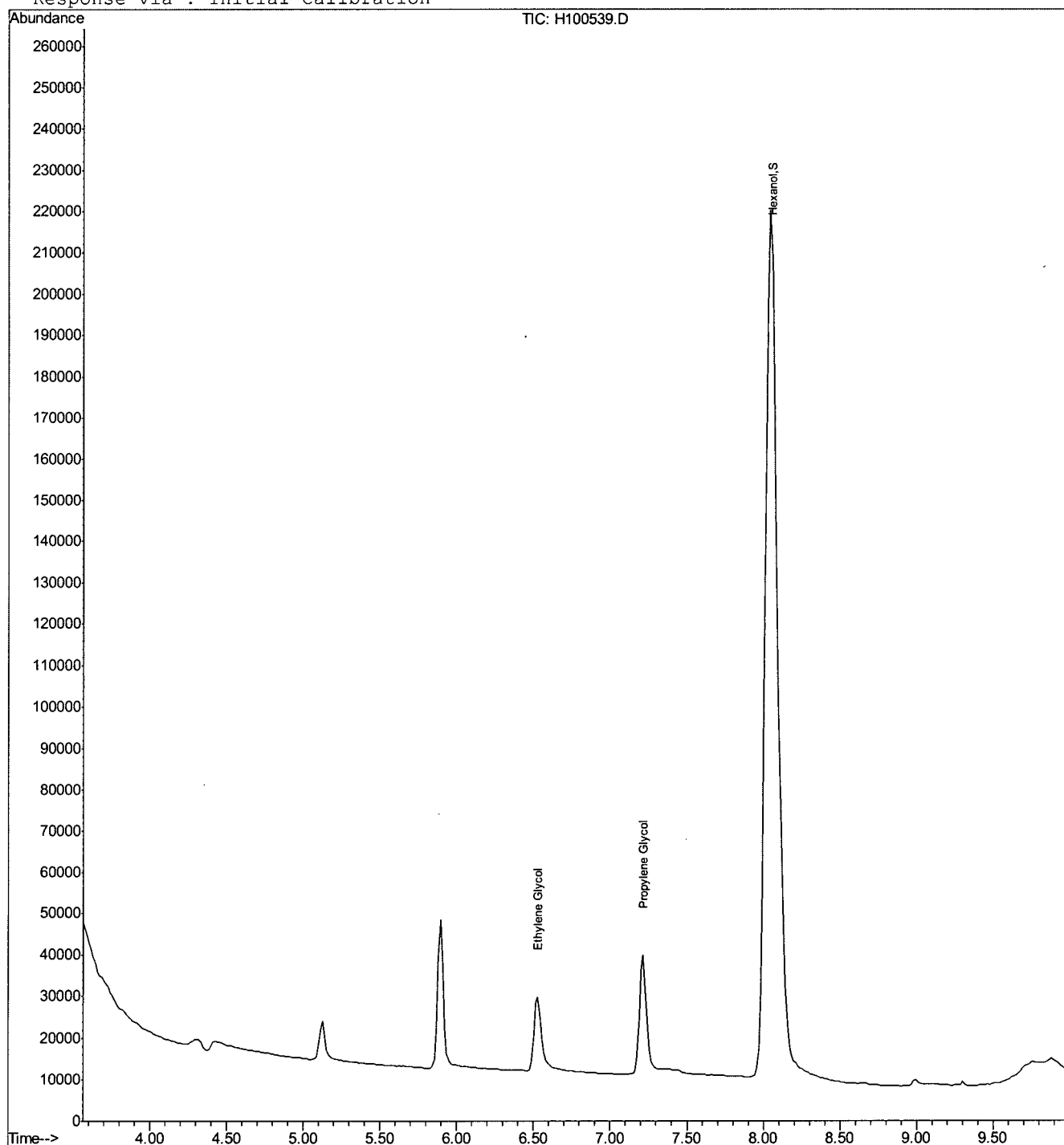
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:40:36 2010

Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100540.D Vial: 5  
Acq On : 25 Oct 2010 7:42 pm Operator: kristis  
Sample : ja58750-11msd Inst : MSH  
Misc : ms3472,eh4373,5.03,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:41 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:41:19 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.20	56	4657185	45.69	ppm	0.00
Spiked Amount	50.000		Recovery	=	91.38%	
Target Compounds						
1) Ethylene Glycol	6.16	31	376171	1.44	ppm	99
2) Propylene Glycol	6.90	45	536305	1.89	ppm	98

-----  
(#) = qualifier out of range (m) = manual integration

H100540.D M4362EPG.M Wed Nov 03 16:41:30 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100540.D

Vial: 5

Acq On : 25 Oct 2010 7:42 pm

Operator: kristis

Sample : ja58750-11msd

Inst : MSH

Misc : ms3472,eh4373,5.03,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:41 2010

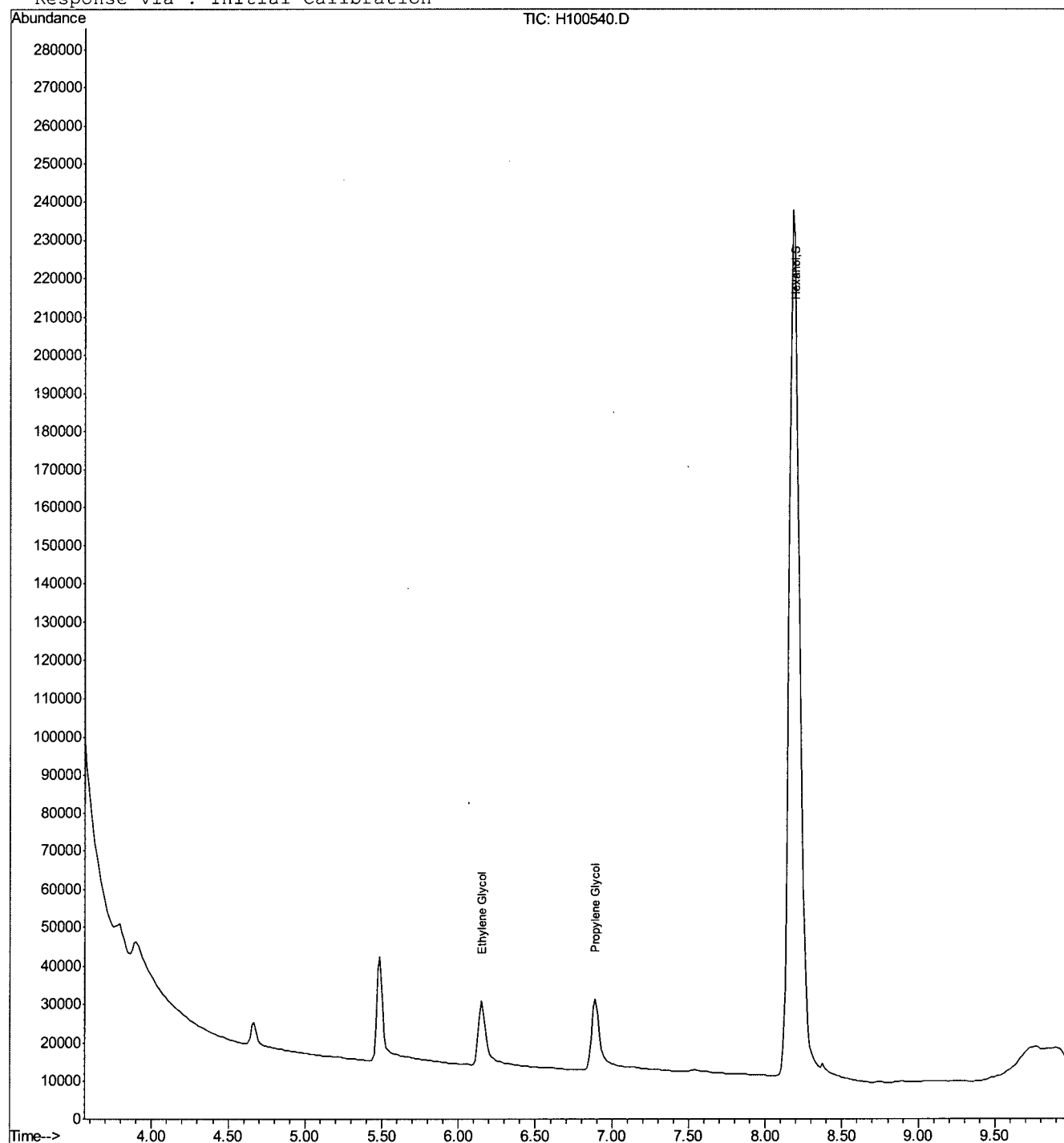
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:41:19 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X108256.D Vial: 6  
 Acq On : 23 Oct 2010 5:29 pm Operator: JUNTAEP  
 Sample : ja58750-11ms Inst : MSX  
 Misc : MS3476,vx4575,11.0,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:37:46 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.33	65	73702	500.00	ug/L	-0.03
6) pentafluorobenzene	10.04	168	178054	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	246140	50.00	ug/L	-0.02
92) chlorobenzene-d5	15.42	117	216019	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	74211	50.00	ug/L	-0.02

System Monitoring Compounds						
53) dibromofluoromethane (s)	10.10	113	76301	50.14	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	100.28%
54) 1,2-dichloroethane-d4 (s)	10.62	65	85815	51.18	ug/L	-0.02
Spiked Amount	50.000	Range	65 - 132	Recovery	=	102.36%
84) toluene-d8 (s)	13.39	98	285897	53.28	ug/L	-0.02
Spiked Amount	50.000	Range	74 - 129	Recovery	=	106.56%
109) 4-bromofluorobenzene (s)	16.91	95	92573	63.53	ug/L	-0.02
Spiked Amount	50.000	Range	62 - 138	Recovery	=	127.06%

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.48	59	37627	213.20	ug/L	89
4) acrolein	6.39	56	107089	371.16	ug/L #	99
5) 1,4-dioxane	12.16	88	14268	951.70	ug/L #	98
12) chlorodifluoromethane	3.80	51	35655	21.45	ug/L	98
13) dichlorodifluoromethane	3.78	85	93224	37.97	ug/L	98
16) chloromethane	4.11	50	95980	28.28	ug/L	98
17) vinyl chloride	4.37	62	69900	26.63	ug/L	99
19) bromomethane	5.03	94	44373	27.53	ug/L	100
20) chloroethane	5.21	64	42965	30.77	ug/L	94
21) vinyl bromide	5.57	106	48565	29.87	ug/L #	97
22) trichlorofluoromethane	5.65	101	97117	35.63	ug/L	97
23) ethyl ether	6.11	74	32070	38.52	ug/L	94
27) 1,1-dichloroethene	6.57	96	39992	25.45	ug/L	93
28) acetone	6.64	58	13542	112.01	ug/L	88
29) allyl chloride	7.16	76	25922	26.46	ug/L #	82
30) acetonitrile	7.14	40	50477	371.36	ug/L #	76
31) iodomethane	6.87	142	90838	31.42	ug/L	94
32) iso-butyl alcohol	10.36	74	4278	237.81	ug/L	100
33) carbon disulfide	7.00	76	140499	22.65	ug/L	96
34) methylene chloride	7.38	84	53737	29.33	ug/L	99
35) methyl acetate	7.14	74	7671	36.17	ug/L	95
36) methyl tert butyl ether	7.74	73	338615	73.63	ug/L	98
37) trans-1,2-dichloroethene	7.79	96	34689	19.85	ug/L	99
38) di-isopropyl ether	8.43	45	193478	32.07	ug/L	91
39) 2-butanone	9.34	72	12377	80.69	ug/L	51
40) 1,1-dichloroethane	8.47	63	93501	29.65	ug/L	99
41) chloroprene	8.58	53	58178	26.26	ug/L	97
42) acrylonitrile	7.76	53	86626	185.18	ug/L	98
43) vinyl acetate	8.46	86	7518	46.28	ug/L	45
44) ethyl tert-butyl ether	9.00	59	197528	37.04	ug/L	99
45) ethyl acetate	9.36	70	6387	42.58	ug/L #	6
46) 2,2-dichloropropane	9.37	77	80646	30.00	ug/L	97
47) cis-1,2-dichloroethene	9.37	96	47296	25.31	ug/L	97

(#) = qualifier out of range (m) = manual integration

X108256.D MX4516.M Mon Oct 25 16:44:23 2010 MSX

Page 1

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\WX4575-4576\X108256.D Vial: 6  
 Acq On : 23 Oct 2010 5:29 pm Operator: JUNTAEP  
 Sample : ja58750-11ms Inst : MSX  
 Misc : MS3476,vx4575,11.0,,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:37:46 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) propionitrile	9.48	54	75779	406.90	ug/L	91
49) tert-Butyl Formate	9.87	59	50408	38.06	ug/L #	85
50) bromochloromethane	9.76	128	26370	33.60	ug/L	98
51) tetrahydrofuran	9.80	42	20986	40.10	ug/L	99
52) chloroform	9.84	83	90877	31.49	ug/L	99
55) freon 113	6.54	151	33435	27.18	ug/L	93
56) methacrylonitrile	9.70	41	34498	35.61	ug/L	93
57) 1,1,1-trichloroethane	10.13	97	76737	31.55	ug/L	96
58) cyclohexane	10.22	84	67664	28.39	ug/L	94
60) iso-octane	10.69	57	185220	28.67	ug/L	92
63) epichlorohydrin	12.74	57	15069	136.34	ug/L	86
64) n-butyl alcohol	11.41	56	89523	2321.70	ug/L	96
65) carbon tetrachloride	10.38	117	68990	35.89	ug/L	98
66) 1,1-dichloropropene	10.36	75	54965	26.41	ug/L	98
67) hexane	8.12	86	4786	17.76	ug/L #	70
68) benzene	10.70	78	177104	29.38	ug/L	99
69) tert-amyl methyl ether	10.75	73	156966	38.08	ug/L	98
70) heptane	10.93	57	19385	16.29	ug/L	96
71) isopropyl acetate	10.64	43	143173	41.47	ug/L	97
72) 1,2-dichloroethane	10.74	62	64194	38.53	ug/L	98
73) trichloroethene	11.64	130	42834	27.85	ug/L	97
76) 2-nitropropane	12.71	46	2085	101.94	ug/L #	1
77) 2-chloroethyl vinyl ether	12.74	63	76251	139.04	ug/L	100
78) methyl methacrylate	12.03	69	32517	39.45	ug/L	98
79) 1,2-dichloropropane	11.99	63	56202	34.61	ug/L	98
80) dibromomethane	12.21	93	30086	37.25	ug/L	99
81) methylcyclohexane	11.91	83	73134	28.97	ug/L	95
82) bromodichloromethane	12.40	83	76523	38.00	ug/L	99
83) cis-1,3-dichloropropene	13.01	75	77697	29.05	ug/L	95
85) 4-methyl-2-pentanone	13.16	58	27899	55.34	ug/L	98
86) toluene	13.49	92	110722	27.86	ug/L	94
87) 3-methyl-1-butanol	13.21	55	61059	957.41	ug/L	95
88) trans-1,3-dichloropropene	13.78	75	55742	24.05	ug/L	98
89) ethyl methacrylate	13.79	69	67110	38.48	ug/L	97
90) 1,1,2-trichloroethane	14.07	83	43945	41.20	ug/L	100
91) 2-hexanone	14.32	58	37012	78.46	ug/L	96
93) 3,3-Dimethyl-1-butanol	14.57	57	64435	516.62	ug/L	100
94) tetrachloroethene	14.26	164	40443	31.96	ug/L	99
95) 1,3-dichloropropane	14.31	76	73028	37.00	ug/L	86
96) butyl acetate	14.43	56	35630	40.38	ug/L	100
97) dibromochloromethane	14.66	129	60111	42.04	ug/L	98
98) 1,2-dibromoethane	14.85	107	42090	35.41	ug/L	95
100) chlorobenzene	15.46	112	109942	28.77	ug/L	99
101) 1,1,1,2-tetrachloroethane	15.55	131	56114	41.70	ug/L	96
102) ethylbenzene	15.54	91	196116	29.05	ug/L	98
103) m,p-xylene	15.68	106	146312	55.96	ug/L	96
104) o-xylene	16.23	106	94530	34.61	ug/L	98
105) styrene	16.25	104	110629	25.28	ug/L	95
106) bromoform	16.58	173	43807	46.83	ug/L	98

(#) = qualifier out of range (m) = manual integration

X108256.D MX4516.M Mon Oct 25 16:44:23 2010 MSX

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108256.D Vial: 6  
 Acq On : 23 Oct 2010 5:29 pm Operator: JUNTAEP  
 Sample : ja58750-11ms Inst : MSX  
 Misc : MS3476,vx4575,11.0,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:37:46 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
108) isopropylbenzene	16.67	105	228310	44.68	ug/L	99
110) bromobenzene	17.13	156	46070	37.55	ug/L	94
111) 1,1,2,2-tetrachloroethane	17.06	83	74162	65.40	ug/L	97
112) trans-1,4-dichloro-2-buten	17.11	53	11942	37.44	ug/L #	61
113) 1,2,3-trichloropropane	17.14	110	16734	68.56	ug/L #	25
114) n-propylbenzene	17.16	91	207523	34.89	ug/L	98
116) 2-chlorotoluene	17.31	126	52940	44.00	ug/L	96
117) 4-chlorotoluene	17.43	91	120328	31.84	ug/L	96
118) 1,3,5-trimethylbenzene	17.33	105	189831	46.12	ug/L	100
119) tert-butylbenzene	17.71	119	180403	49.57	ug/L	95
120) pentachloroethane	17.81	167	42575	62.72	ug/L	96
121) 1,2,4-trimethylbenzene	17.76	105	188364	43.97	ug/L	98
123) sec-butylbenzene	17.94	105	248809	45.65	ug/L	99
124) 1,3-dichlorobenzene	18.13	146	74605	31.79	ug/L	98
125) p-isopropyltoluene	18.07	119	200605	44.88	ug/L	96
126) 1,4-dichlorobenzene	18.22	146	62810	28.20	ug/L	99
127) 1,2-dichlorobenzene	18.61	146	94781	44.24	ug/L	100
128) benzyl chloride	18.34	91	109486	49.19	ug/L	98
130) n-butylbenzene	18.49	92	77311	32.30	ug/L	99
132) 1,2-dibromo-3-chloropropan	19.36	75	14839	72.61	ug/L	89
133) 1,3,5-trichlorobenzene	19.53	180	72749	41.44	ug/L	97
134) hexachlorobutadiene	20.24	225	46394	54.58	ug/L	98
135) naphthalene	20.42	128	121152	48.76	ug/L	100
136) 1,2,4-trichlorobenzene	20.14	180	43568	31.69	ug/L	92
137) 1,2,3-trichlorobenzene	20.65	180	53111	47.12	ug/L	99
138) hexachloroethane	18.85	201	43494	56.19	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X108256.D MX4516.M Mon Oct 25 16:44:24 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108256.D

Vial: 6

Acq On : 23 Oct 2010 5:29 pm

Operator: JUNTAEF

Sample : ja58750-11ms

Inst : MSX

Misc : MS3476,vx4575,11.0,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Oct 25 16:37 2010

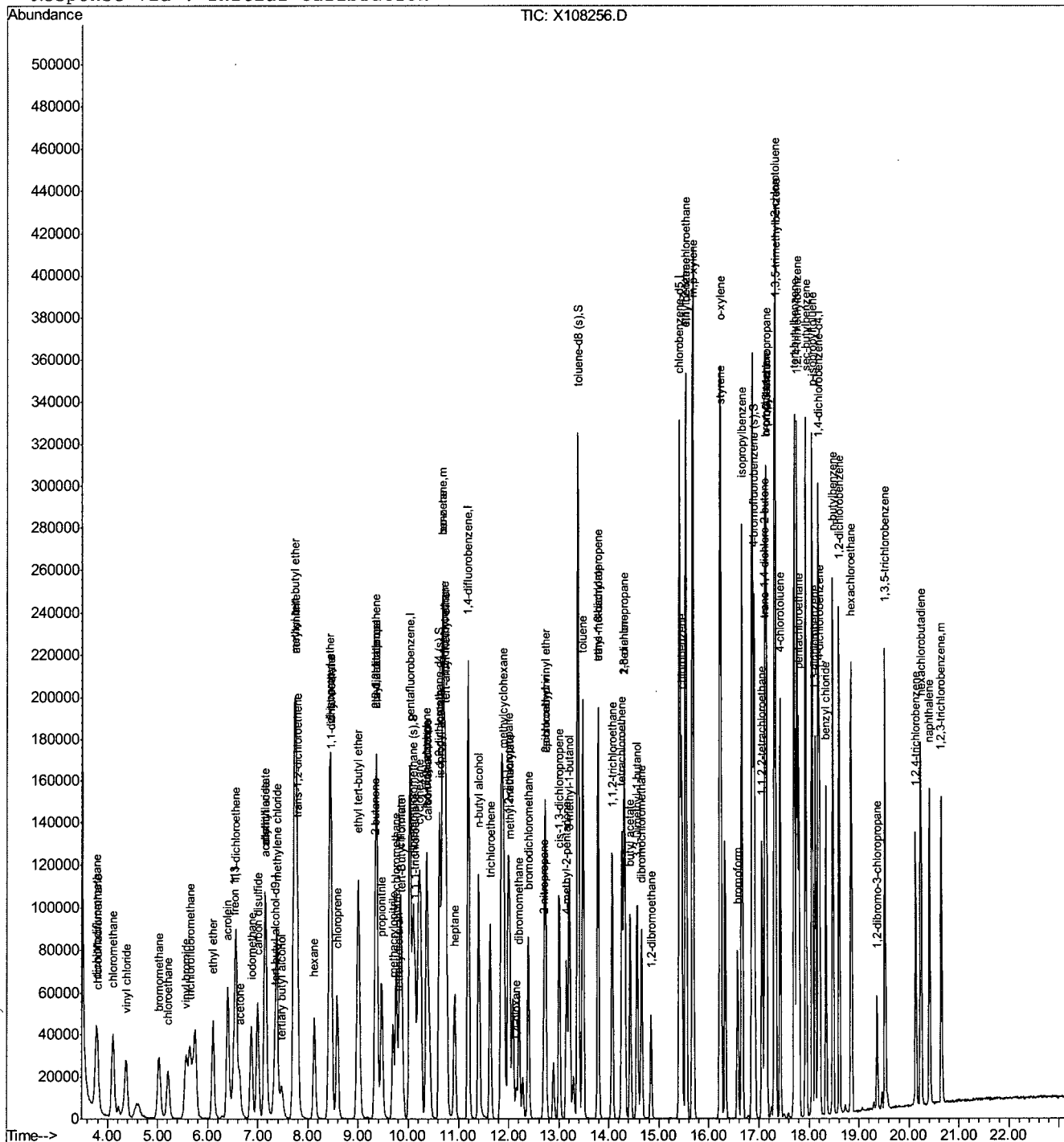
Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Mon Oct 25 16:35:25 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108257.D Vial: 7  
 Acq On : 23 Oct 2010 5:59 pm Operator: JUNTAEP  
 Sample : ja58750-11msd Inst : MSX  
 Misc : MS3476,vx4575,11.0,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:37:53 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.34	65	77776	500.00	ug/L	-0.03
6) pentafluorobenzene	10.04	168	198810	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	275652	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	255179	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	113348	50.00	ug/L	-0.02

System Monitoring Compounds						
53) dibromofluoromethane (s)	10.10	113	83937	49.40	ug/L	-0.02
Spiked Amount	50.000	Range 67 - 127	Recovery	=	98.80%	
54) 1,2-dichloroethane-d4 (s)	10.62	65	95589	51.06	ug/L	-0.02
Spiked Amount	50.000	Range 65 - 132	Recovery	=	102.12%	
84) toluene-d8 (s)	13.39	98	318353	52.98	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	105.96%	
109) 4-bromofluorobenzene (s)	16.91	95	119588	53.74	ug/L	-0.01
Spiked Amount	50.000	Range 62 - 138	Recovery	=	107.48%	

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.48	59	40739	218.74	ug/L	97
4) acrolein	6.40	56	116912	383.98	ug/L	# 99
5) 1,4-dioxane	12.16	88	15020	949.66	ug/L	# 99
12) chlorodifluoromethane	3.79	51	46565	25.09	ug/L	90
13) dichlorodifluoromethane	3.77	85	117502	42.86	ug/L	95
16) chloromethane	4.11	50	120600	31.83	ug/L	99
17) vinyl chloride	4.36	62	93831	32.01	ug/L	96
19) bromomethane	5.03	94	55220	30.68	ug/L	97
20) chloroethane	5.21	64	55508	35.61	ug/L	97
21) vinyl bromide	5.56	106	52424	28.88	ug/L	# 95
22) trichlorofluoromethane	5.65	101	135854	44.64	ug/L	97
23) ethyl ether	6.11	74	36811	39.60	ug/L	94
27) 1,1-dichloroethene	6.56	96	51723	29.48	ug/L	97
28) acetone	6.64	58	15290	113.29	ug/L	91
29) allyl chloride	7.16	76	33578	30.70	ug/L	92
30) acetonitrile	7.15	40	56518	372.39	ug/L	# 85
31) iodomethane	6.87	142	110208	34.14	ug/L	90
32) iso-butyl alcohol	10.37	74	5727	278.36	ug/L	100
33) carbon disulfide	6.99	76	170110	24.56	ug/L	96
34) methylene chloride	7.38	84	63020	30.81	ug/L	99
35) methyl acetate	7.15	74	8392	35.44	ug/L	94
36) methyl tert butyl ether	7.74	73	390247	75.99	ug/L	98
37) trans-1,2-dichloroethene	7.79	96	46727	23.94	ug/L	96
38) di-isopropyl ether	8.44	45	242096	35.94	ug/L	78
39) 2-butanone	9.34	72	13880	81.05	ug/L	80
40) 1,1-dichloroethane	8.47	63	117621	33.40	ug/L	98
41) chloroprene	8.60	53	86220	34.85	ug/L	97
42) acrylonitrile	7.77	53	93556	179.12	ug/L	99
43) vinyl acetate	8.45	86	8190	45.16	ug/L	89
44) ethyl tert-butyl ether	9.00	59	238299	40.02	ug/L	99
45) ethyl acetate	9.37	70	6774	40.44	ug/L	50
46) 2,2-dichloropropane	9.36	77	101090	33.68	ug/L	96
47) cis-1,2-dichloroethene	9.37	96	58792	28.18	ug/L	95

(#) = qualifier out of range (m) = manual integration

X108257.D MX4516.M Mon Oct 25 16:44:38 2010 MSX

Page 1

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X4575-4576\X108257.D Vial: 7  
 Acq On : 23 Oct 2010 5:59 pm Operator: JUNTAEP  
 Sample : ja58750-11msd Inst : MSX  
 Misc : MS3476,vx4575,11.0,,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:37:53 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) propionitrile	9.48	54	82548	396.97	ug/L	90
49) tert-Butyl Formate	9.88	59	63435	42.89	ug/L #	85
50) bromochloromethane	9.76	128	30812	35.16	ug/L	97
51) tetrahydrofuran	9.80	42	23317	39.90	ug/L	97
52) chloroform	9.85	83	111425	34.58	ug/L	98
55) freon 113	6.54	151	45602	33.20	ug/L	96
56) methacrylonitrile	9.69	41	37455	34.62	ug/L	89
57) 1,1,1-trichloroethane	10.14	97	97271	35.82	ug/L	98
58) cyclohexane	10.22	84	86941	32.67	ug/L	93
60) iso-octane	10.69	57	247502	34.32	ug/L	94
63) epichlorohydrin	12.74	57	17420	140.74	ug/L	85
64) n-butyl alcohol	11.40	56	94012	2177.09	ug/L	96
65) carbon tetrachloride	10.38	117	87123	40.47	ug/L	97
66) 1,1-dichloropropene	10.37	75	73818	31.67	ug/L	100
67) hexane	8.14	86	7852	26.02	ug/L #	79
68) benzene	10.70	78	217984	32.29	ug/L	99
69) tert-amyl methyl ether	10.75	73	185292	40.14	ug/L	98
70) heptane	10.93	57	32701	24.54	ug/L	98
71) isopropyl acetate	10.64	43	179672	46.47	ug/L	99
72) 1,2-dichloroethane	10.74	62	74504	39.93	ug/L	99
73) trichloroethene	11.63	130	56594	32.85	ug/L	98
76) 2-nitropropane	12.72	46	2119	93.03	ug/L #	1
77) 2-chloroethyl vinyl ether	12.74	63	89041	144.98	ug/L	100
78) methyl methacrylate	12.03	69	36228	39.25	ug/L	98
79) 1,2-dichloropropane	11.99	63	67219	36.96	ug/L	97
80) dibromomethane	12.21	93	34668	38.33	ug/L	93
81) methylcyclohexane	11.91	83	101422	35.87	ug/L	97
82) bromodichloromethane	12.40	83	90608	40.17	ug/L	99
83) cis-1,3-dichloropropene	13.01	75	95930	32.03	ug/L	91
85) 4-methyl-2-pentanone	13.16	58	30955	54.83	ug/L	98
86) toluene	13.49	92	137254	30.84	ug/L	98
87) 3-methyl-1-butanol	13.21	55	64450	902.38	ug/L	95
88) trans-1,3-dichloropropene	13.78	75	73519	28.33	ug/L	97
89) ethyl methacrylate	13.79	69	75257	38.53	ug/L	98
90) 1,1,2-trichloroethane	14.07	83	49255	41.23	ug/L	98
91) 2-hexanone	14.32	58	39085	73.99	ug/L	96
93) 3,3-Dimethyl-1-butanol	14.57	57	68126	462.39	ug/L	99
94) tetrachloroethene	14.26	164	53116	35.53	ug/L	96
95) 1,3-dichloropropane	14.31	76	82158	35.24	ug/L	87
96) butyl acetate	14.43	56	39595	37.99	ug/L	94
97) dibromochloromethane	14.65	129	68809	40.74	ug/L	99
98) 1,2-dibromoethane	14.84	107	49844	35.49	ug/L	99
100) chlorobenzene	15.46	112	140952	31.23	ug/L	97
101) 1,1,1,2-tetrachloroethane	15.55	131	66461	41.81	ug/L	97
102) ethylbenzene	15.54	91	246920	30.96	ug/L	99
103) m,p-xylene	15.68	106	190062	61.54	ug/L	99
104) o-xylene	16.23	106	114763	35.57	ug/L	95
105) styrene	16.25	104	147107	28.45	ug/L	99
106) bromoform	16.58	173	49875	45.14	ug/L	99

(#) = qualifier out of range (m) = manual integration

X108257.D MX4516.M Mon Oct 25 16:44:39 2010 MSX

Page 2



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108257.D Vial: 7  
 Acq On : 23 Oct 2010 5:59 pm Operator: JUNTAEP  
 Sample : ja58750-11msd Inst : MSX  
 Misc : MS3476,vx4575,11.0,,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:37:53 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

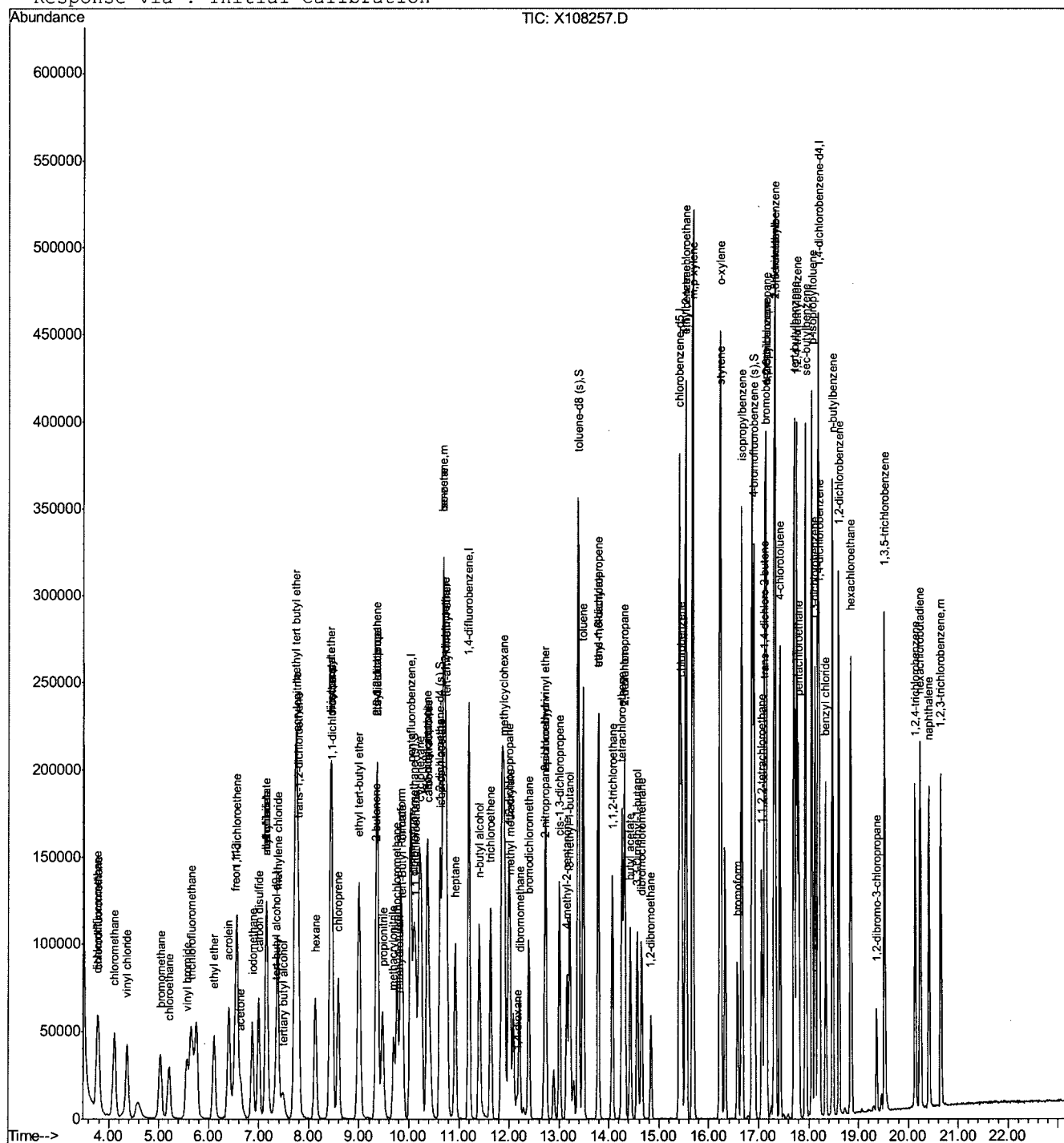
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
108) isopropylbenzene	16.67	105	281801	36.10	ug/L	99
110) bromobenzene	17.13	156	61001	32.55	ug/L	98
111) 1,1,2,2-tetrachloroethane	17.06	83	82299	47.52	ug/L	96
112) trans-1,4-dichloro-2-buten	17.11	53	16705	34.29	ug/L	99
113) 1,2,3-trichloropropane	17.14	110	18118	48.60	ug/L #	28
114) n-propylbenzene	17.15	91	283350	31.19	ug/L	98
116) 2-chlorotoluene	17.31	126	65994	35.91	ug/L	96
117) 4-chlorotoluene	17.43	91	171231	29.66	ug/L	99
118) 1,3,5-trimethylbenzene	17.33	105	228457	36.34	ug/L	99
119) tert-butylbenzene	17.71	119	217046	39.05	ug/L	97
120) pentachloroethane	17.80	167	47560	45.87	ug/L	98
121) 1,2,4-trimethylbenzene	17.76	105	231473	35.38	ug/L	99
123) sec-butylbenzene	17.94	105	308275	37.03	ug/L	99
124) 1,3-dichlorobenzene	18.13	146	106361	29.67	ug/L	99
125) p-isopropyltoluene	18.07	119	250390	36.67	ug/L	98
126) 1,4-dichlorobenzene	18.22	146	91950	27.03	ug/L	97
127) 1,2-dichlorobenzene	18.61	146	119549	36.53	ug/L	97
128) benzyl chloride	18.34	91	135914	39.98	ug/L	98
130) n-butylbenzene	18.49	92	116214	31.79	ug/L	97
132) 1,2-dibromo-3-chloropropan	19.36	75	16122	51.65	ug/L	90
133) 1,3,5-trichlorobenzene	19.53	180	93869	35.00	ug/L	99
134) hexachlorobutadiene	20.24	225	55238	42.54	ug/L	98
135) naphthalene	20.42	128	151433	39.90	ug/L	99
136) 1,2,4-trichlorobenzene	20.14	180	62763	29.89	ug/L	98
137) 1,2,3-trichlorobenzene	20.66	180	68045	39.53	ug/L	99
138) hexachloroethane	18.85	201	54291	45.92	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X108257.D MX4516.M Mon Oct 25 16:44:39 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\WX4575-4576\X108257.D Vial: 7  
Acq On : 23 Oct 2010 5:59 pm Operator: JUNTAEP  
Sample : ja58750-11msd Inst : MSX  
Misc : MS3476,vx4575,11.0,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:37 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



#### 6.4.4

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
 Data File : X108303.D  
 Acq On : 25 Oct 2010 3:25 pm  
 Operator : JUNTAEP  
 Sample : ja39318-2ms  
 Misc : MS3802,vx4577,4.5,,,,,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 16:50:31 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
 Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 QLast Update : Sat Oct 23 13:53:46 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.345	65	61999	500.00	ug/L	-0.02
6) pentafluorobenzene	10.049	168	121812	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.210	114	181530	50.00	ug/L	-0.01
92) chlorobenzene-d5	15.426	117	180111	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.203	152	85545	50.00	ug/L	0.00
System Monitoring Compounds						
53) dibromofluoromethane (s)	10.101	113	56122	53.91	ug/L	-0.02
Spiked Amount	50.000	Range 67 - 127	Recovery	= 107.82%		
54) 1,2-dichloroethane-d4 (s)	10.630	65	68226	59.48	ug/L	-0.02
Spiked Amount	50.000	Range 65 - 132	Recovery	= 118.96%		
84) toluene-d8 (s)	13.396	98	219844	55.55	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	= 111.10%		
109) 4-bromofluorobenzene (s)	16.922	95	91659	54.57	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	= 109.14%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	7.476	59	37897	255.26	ug/L	92
4) acrolein	6.404	56	103467	426.29	ug/L #	99
5) 1,4-dioxane	12.167	88	13315	1043.23	ug/L #	93
12) chlorodifluoromethane	3.809	51	52099	45.81	ug/L	99
13) dichlorodifluoromethane	3.783	85	92534	55.09	ug/L	98
16) chloromethane	4.118	50	104985	45.22	ug/L	99
17) vinyl chloride	4.374	62	77570	43.19	ug/L	98
19) bromomethane	5.038	94	41030	37.21	ug/L	98
20) chloroethane	5.216	64	35310	36.97	ug/L	96
21) vinyl bromide	5.567	106	48983	44.04	ug/L #	95
22) trichlorofluoromethane	5.656	101	95430	51.18	ug/L	100
23) ethyl ether	6.116	74	31765	55.78	ug/L	95
27) 1,1-dichloroethene	6.576	96	48802	45.40	ug/L	92
28) acetone	6.644	58	9685	117.20	ug/L	88
29) allyl chloride	7.162	76	32619	48.67	ug/L #	81
30) acetonitrile	7.151	40	52787	567.66	ug/L #	82
31) iodomethane	6.874	142	97382	49.24	ug/L	91
32) iso-butyl alcohol	10.368	74	5826	439.71	ug/L	100
33) carbon disulfide	7.005	76	200240	47.18	ug/L	96
34) methylene chloride	7.387	84	58353	46.56	ug/L	94
35) methyl acetate	7.151	74	7043	48.54	ug/L #	89
36) methyl tert butyl ether	7.742	73	321350	102.13	ug/L	100
37) trans-1,2-dichloroethene	7.800	96	50487	42.22	ug/L	97
38) di-isopropyl ether	8.443	45	220349	53.39	ug/L	81
39) 2-butanone	9.348	72	8685	82.80	ug/L	91
40) 1,1-dichloroethane	8.475	63	107967	50.04	ug/L	99
41) chloroprene	8.595	53	83922	55.37	ug/L	98
42) acrylonitrile	7.769	53	87298	272.79	ug/L	99
43) vinyl acetate	8.464	86	7819	70.36	ug/L	97
44) ethyl tert-butyl ether	9.013	59	203131	55.67	ug/L	98
45) ethyl acetate	9.369	70	6261	61.01	ug/L	48
46) 2,2-dichloropropane	9.369	77	93961	51.10	ug/L	91

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
 Data File : X108303.D  
 Acq On : 25 Oct 2010 3:25 pm  
 Operator : JUNTAEP  
 Sample : ja39318-2ms  
 Misc : MS3802,vx4577,4.5,,,,,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 16:50:31 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
 Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 QLast Update : Sat Oct 23 13:53:46 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) cis-1,2-dichloroethene	9.380	96	58061	45.42	ug/L	92
48) propionitrile	9.484	54	72906	572.23	ug/L	97
49) tert-Butyl Formate	9.882	59	46768	51.61	ug/L #	86
50) bromochloromethane	9.772	128	26765	49.84	ug/L	90
51) tetrahydrofuran	9.814	42	20713	57.85	ug/L	98
52) chloroform	9.850	83	100482	50.90	ug/L	96
55) freon 113	6.545	151	36333	43.18	ug/L	92
56) methacrylonitrile	9.704	41	35977	54.28	ug/L	93
57) 1,1,1-trichloroethane	10.143	97	88179	53.00	ug/L	96
58) cyclohexane	10.222	84	75651	46.39	ug/L	84
60) iso-octane	10.698	57	200792	45.44	ug/L	93
63) epichlorohydrin	12.748	57	20860	255.91	ug/L	89
64) n-butyl alcohol	11.414	56	93158	3275.86	ug/L	93
65) carbon tetrachloride	10.394	117	76529	53.99	ug/L	99
66) 1,1-dichloropropene	10.368	75	76513	49.85	ug/L	95
67) hexane	8.140	86	7656	38.52	ug/L	96
68) benzene	10.703	78	207301	46.63	ug/L	98
69) tert-amyl methyl ether	10.766	73	154215	50.73	ug/L	97
70) heptane	10.933	57	37311	42.51	ug/L	94
71) isopropyl acetate	10.650	43	149491	58.71	ug/L	99
72) 1,2-dichloroethane	10.745	62	71361	58.08	ug/L	98
73) trichloroethene	11.649	130	55064	48.54	ug/L	97
76) 2-nitropropane	12.722	46	1076	73.03	ug/L #	1
77) 2-chloroethyl vinyl ether	12.748	63	102886	254.38	ug/L	96
78) methyl methacrylate	12.036	69	33703	55.45	ug/L	86
79) 1,2-dichloropropane	12.005	63	61065	50.99	ug/L	99
80) dibromomethane	12.220	93	33313	55.93	ug/L	99
81) methylcyclohexane	11.916	83	81488	43.76	ug/L	86
82) bromodichloromethane	12.408	83	80690	54.33	ug/L	99
83) cis-1,3-dichloropropene	13.025	75	104110	52.78	ug/L	91
85) 4-methyl-2-pentanone	13.171	58	24118	64.87	ug/L	98
86) toluene	13.496	92	135185	46.13	ug/L	99
87) 3-methyl-1-butanol	13.224	55	62626	1331.48	ug/L	96
88) trans-1,3-dichloropropene	13.794	75	93075	54.45	ug/L	97
89) ethyl methacrylate	13.799	69	70272	54.63	ug/L	98
90) 1,1,2-trichloroethane	14.076	83	42017	53.41	ug/L	97
91) 2-hexanone	14.327	58	25061	72.04	ug/L	95
93) 3,3-Dimethyl-1-butanol	14.578	57	63074	606.53	ug/L	99
94) tetrachloroethene	14.275	164	46865	44.42	ug/L	99
95) 1,3-dichloropropane	14.322	76	79254	48.16	ug/L	89
96) butyl acetate	14.437	56	40659	55.27	ug/L	94
97) dibromochloromethane	14.662	129	58533	49.10	ug/L	98
98) 1,2-dibromoethane	14.850	107	49099	49.54	ug/L	99
100) chlorobenzene	15.468	112	147481	46.29	ug/L	97
101) 1,1,1,2-tetrachloroethane	15.556	131	54133	48.25	ug/L	98
102) ethylbenzene	15.546	91	264047	46.90	ug/L	98
103) m,p-xylene	15.692	106	189276	86.83	ug/L	93
104) o-xylene	16.236	106	102819	45.15	ug/L	91
105) styrene	16.257	104	161110	44.15	ug/L	95
106) bromoform	16.587	173	41195	52.82	ug/L	97

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
Data File : X108303.D  
Acq On : 25 Oct 2010 3:25 pm  
Operator : JUNTAEP  
Sample : ja39318-2ms  
Misc : MS3802,vx4577,4.5,,,,1  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 16:50:31 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Sat Oct 23 13:53:46 2010  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) isopropylbenzene	16.676	105	264473	44.89	ug/L	97
110) bromobenzene	17.136	156	63978	45.23	ug/L	91
111) 1,1,2,2-tetrachloroethane	17.073	83	69592	53.24	ug/L	100
112) trans-1,4-dichloro-2-b...	17.120	53	23130	62.92	ug/L	88
113) 1,2,3-trichloropropane	17.146	110	15166	53.90	ug/L #	87
114) n-propylbenzene	17.162	91	305296	44.53	ug/L	98
116) 2-chlorotoluene	17.324	126	62685	45.20	ug/L	90
117) 4-chlorotoluene	17.439	91	205510	47.17	ug/L	96
118) 1,3,5-trimethylbenzene	17.340	105	215681	45.46	ug/L	98
119) tert-butylbenzene	17.722	119	193949	46.23	ug/L	94
120) pentachloroethane	17.811	167	40210	51.39	ug/L	95
121) 1,2,4-trimethylbenzene	17.774	105	236407	47.88	ug/L	98
123) sec-butylbenzene	17.947	105	288940	45.99	ug/L	98
124) 1,3-dichlorobenzene	18.140	146	123922	45.80	ug/L	97
125) p-isopropyltoluene	18.077	119	239022	46.39	ug/L	96
126) 1,4-dichlorobenzene	18.229	146	119319	46.47	ug/L	97
127) 1,2-dichlorobenzene	18.616	146	120235	48.68	ug/L	98
128) benzyl chloride	18.355	91	145638	56.76	ug/L	97
130) n-butylbenzene	18.496	92	137715	49.91	ug/L	98
132) 1,2-dibromo-3-chloropr...	19.375	75	14594	61.95	ug/L	86
133) 1,3,5-trichlorobenzene	19.537	180	98622	48.73	ug/L	98
134) hexachlorobutadiene	20.253	225	45621	46.56	ug/L	99
135) naphthalene	20.426	128	161647	56.44	ug/L	97
136) 1,2,4-trichlorobenzene	20.149	180	82611	52.13	ug/L	97
137) 1,2,3-trichlorobenzene	20.666	180	70078	53.94	ug/L	98
138) hexachloroethane	18.857	201	43948	49.26	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
 Data File : X108304.D  
 Acq On : 25 Oct 2010 3:53 pm  
 Operator : JUNTAEP  
 Sample : ja39318-2msd  
 Misc : MS3802,vx4577,4.5,,,,,1  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 16:50:42 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
 Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 QLast Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.356	65	52285	500.00	ug/L	0.00
6) pentafluorobenzene	10.054	168	126096	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.221	114	184439	50.00	ug/L	0.00
92) chlorobenzene-d5	15.431	117	181376	50.00	ug/L	0.00
107) 1,4-dichlorobenzene-d4	18.203	152	84928	50.00	ug/L	0.00
System Monitoring Compounds						
53) dibromofluoromethane (s)	10.107	113	55337	51.35	ug/L	-0.01
Spiked Amount 50.000	Range 67	- 127	Recovery	=	102.70%	
54) 1,2-dichloroethane-d4 (s)	10.640	65	66913	56.35	ug/L	0.00
Spiked Amount 50.000	Range 65	- 132	Recovery	=	112.70%	
84) toluene-d8 (s)	13.402	98	223406	55.56	ug/L	0.00
Spiked Amount 50.000	Range 74	- 129	Recovery	=	111.12%	
109) 4-bromofluorobenzene (s)	16.922	95	92863	55.69	ug/L	0.00
Spiked Amount 50.000	Range 62	- 138	Recovery	=	111.38%	
Target Compounds						
2) tertiary butyl alcohol	7.481	59	32744	261.53	ug/L	92
4) acrolein	6.409	56	89346	436.50	ug/L #	100
5) 1,4-dioxane	12.173	88	12334	1134.61	ug/L #	91
12) chlorodifluoromethane	3.804	51	50059	42.52	ug/L	91
13) dichlorodifluoromethane	3.789	85	88752	51.05	ug/L	96
16) chloromethane	4.113	50	100526	41.83	ug/L	97
17) vinyl chloride	4.380	62	76156	40.96	ug/L	99
19) bromomethane	5.039	94	41096	36.00	ug/L	97
20) chloroethane	5.216	64	45683	46.20	ug/L	97
21) vinyl bromide	5.577	106	49721	43.18	ug/L #	97
22) trichlorofluoromethane	5.656	101	97032	50.27	ug/L	97
23) ethyl ether	6.116	74	28870	48.97	ug/L	94
27) 1,1-dichloroethene	6.582	96	49745	44.71	ug/L	85
28) acetone	6.644	58	8485	98.83	ug/L #	67
29) allyl chloride	7.167	76	32257	46.49	ug/L #	78
30) acetonitrile	7.162	40	48557	504.43	ug/L #	63
31) iodomethane	6.880	142	97192	47.48	ug/L	93
32) iso-butyl alcohol	10.379	74	5953	434.47	ug/L	100
33) carbon disulfide	7.010	76	204491	46.55	ug/L	95
34) methylene chloride	7.392	84	57269	44.14	ug/L	93
35) methyl acetate	7.157	74	6226	41.45	ug/L #	84
36) methyl tert butyl ether	7.748	73	301276	92.50	ug/L	100
37) trans-1,2-dichloroethene	7.811	96	50877	41.10	ug/L	89
38) di-isopropyl ether	8.449	45	217068	50.81	ug/L	90
39) 2-butanone	9.359	72	7270	66.72	ug/L	90
40) 1,1-dichloroethane	8.480	63	110572	49.51	ug/L	98
41) chloroprene	8.606	53	85206	54.30	ug/L	96
42) acrylonitrile	7.774	53	78935	238.27	ug/L	99
43) vinyl acetate	8.480	86	7029	61.10	ug/L	74
44) ethyl tert-butyl ether	9.019	59	195764	51.83	ug/L	98
45) ethyl acetate	9.374	70	5377	50.62	ug/L	63
46) 2,2-dichloropropane	9.374	77	95948	50.41	ug/L	92

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
 Data File : X108304.D  
 Acq On : 25 Oct 2010 3:53 pm  
 Operator : JUNTAEP  
 Sample : ja39318-2msd  
 Misc : MS3802,vx4577,4.5,,,,1  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 16:50:42 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
 Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 QLast Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) cis-1,2-dichloroethene	9.390	96	57345	43.33	ug/L	91
48) propionitrile	9.495	54	65476	496.45	ug/L	96
49) tert-Butyl Formate	9.892	59	48353	51.55	ug/L #	85
50) bromochloromethane	9.777	128	25452	45.79	ug/L #	84
51) tetrahydrofuran	9.814	42	18687	50.42	ug/L	98
52) chloroform	9.856	83	100849	49.35	ug/L	98
55) freon 113	6.550	151	36568	41.98	ug/L	99
56) methacrylonitrile	9.720	41	32537	47.42	ug/L	95
57) 1,1,1-trichloroethane	10.154	97	90459	52.52	ug/L	95
58) cyclohexane	10.227	84	75476	44.71	ug/L	89
60) iso-octane	10.708	57	183784	40.18	ug/L	92
63) epichlorohydrin	12.748	57	19240	232.31	ug/L	92
64) n-butyl alcohol	11.425	56	83894	2903.56	ug/L	92
65) carbon tetrachloride	10.400	117	77544	53.84	ug/L	97
66) 1,1-dichloropropene	10.379	75	78016	50.03	ug/L	95
67) hexane	8.145	86	7134	35.33	ug/L #	93
68) benzene	10.713	78	209621	46.40	ug/L	99
69) tert-amyl methyl ether	10.766	73	145285	47.03	ug/L	97
70) heptane	10.944	57	35197	39.47	ug/L	95
71) isopropyl acetate	10.651	43	133507	51.60	ug/L	98
72) 1,2-dichloroethane	10.755	62	68713	55.05	ug/L	99
73) trichloroethene	11.650	130	55989	48.57	ug/L	98
76) 2-nitropropane	12.727	46	885	60.19	ug/L #	39
77) 2-chloroethyl vinyl ether	12.753	63	94722	230.50	ug/L	98
78) methyl methacrylate	12.047	69	29675	48.05	ug/L	99
79) 1,2-dichloropropane	12.011	63	60380	49.62	ug/L	100
80) dibromomethane	12.225	93	30999	51.22	ug/L	95
81) methylcyclohexane	11.922	83	78946	41.73	ug/L	92
82) bromodichloromethane	12.413	83	78876	52.27	ug/L	97
83) cis-1,3-dichloropropene	13.030	75	100862	50.33	ug/L	92
85) 4-methyl-2-pentanone	13.172	58	20968	55.51	ug/L	95
86) toluene	13.501	92	135305	45.44	ug/L	99
87) 3-methyl-1-butanol	13.229	55	55552	1162.45	ug/L	96
88) trans-1,3-dichloropropene	13.799	75	88602	51.02	ug/L	97
89) ethyl methacrylate	13.804	69	63734	48.76	ug/L	96
90) 1,1,2-trichloroethane	14.082	83	39865	49.87	ug/L	97
91) 2-hexanone	14.333	58	21276	60.19	ug/L	97
93) 3,3-Dimethyl-1-butanol	14.579	57	54151	517.09	ug/L	99
94) tetrachloroethene	14.280	164	46262	43.54	ug/L	98
95) 1,3-dichloropropane	14.322	76	74410	44.90	ug/L	87
96) butyl acetate	14.443	56	35519	47.94	ug/L	93
97) dibromochloromethane	14.667	129	55087	45.89	ug/L	99
98) 1,2-dibromoethane	14.856	107	45998	46.08	ug/L	96
100) chlorobenzene	15.468	112	143769	44.81	ug/L	96
101) 1,1,1,2-tetrachloroethane	15.557	131	52717	46.66	ug/L	95
102) ethylbenzene	15.551	91	259867	45.84	ug/L	98
103) m,p-xylene	15.693	106	186348	84.89	ug/L	94
104) o-xylene	16.237	106	102371	44.64	ug/L	93
105) styrene	16.257	104	156245	42.52	ug/L	90
106) bromoform	16.587	173	38321	48.79	ug/L	97



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
Data File : X108304.D  
Acq On : 25 Oct 2010 3:53 pm  
Operator : JUNTAEP  
Sample : ja39318-2msd  
Misc : MS3802,vx4577,4.5,,,1  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 16:50:42 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration

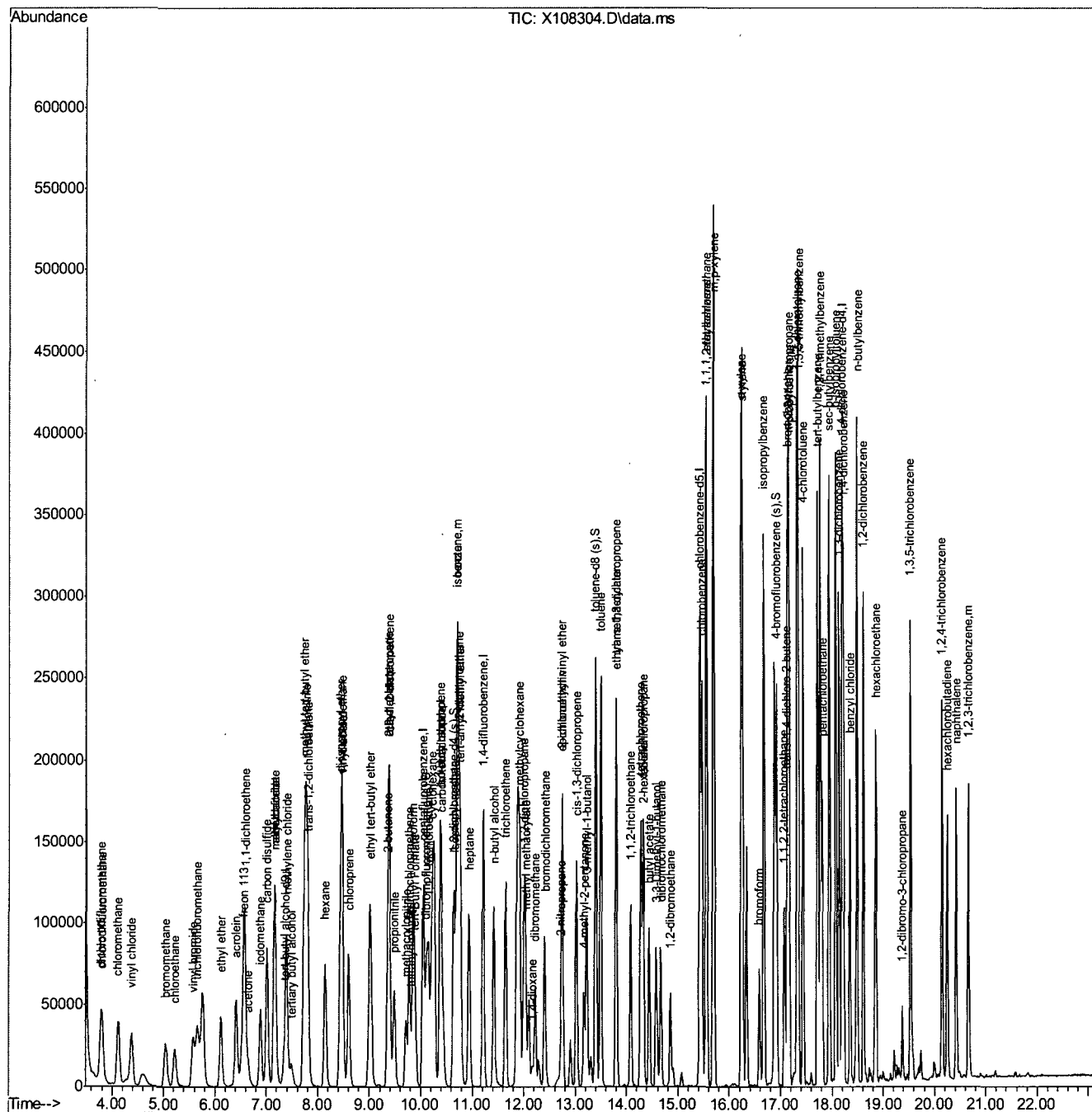
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) isopropylbenzene	16.676	105	261504	44.71	ug/L	97
110) bromobenzene	17.141	156	62078	44.21	ug/L	91
111) 1,1,2,2-tetrachloroethane	17.073	83	63253	48.74	ug/L	97
112) trans-1,4-dichloro-2-b...	17.120	53	21097	57.80	ug/L	83
113) 1,2,3-trichloropropane	17.147	110	13733	49.16	ug/L	97
114) n-propylbenzene	17.168	91	299408	43.98	ug/L	98
116) 2-chlorotoluene	17.324	126	60693	44.08	ug/L	86
117) 4-chlorotoluene	17.439	91	199998	46.24	ug/L	96
118) 1,3,5-trimethylbenzene	17.345	105	209269	44.42	ug/L	98
119) tert-butylbenzene	17.722	119	185596	44.56	ug/L	92
120) pentachloroethane	17.811	167	38588	49.67	ug/L	97
121) 1,2,4-trimethylbenzene	17.774	105	227915	46.49	ug/L	99
123) sec-butylbenzene	17.952	105	277697	44.52	ug/L	98
124) 1,3-dichlorobenzene	18.146	146	116026	43.20	ug/L	97
125) p-isopropyltoluene	18.078	119	227715	44.51	ug/L	96
126) 1,4-dichlorobenzene	18.229	146	112270	44.04	ug/L	98
127) 1,2-dichlorobenzene	18.616	146	110613	45.11	ug/L	97
128) benzyl chloride	18.355	91	130675	51.30	ug/L	96
130) n-butylbenzene	18.496	92	128842	47.03	ug/L	98
132) 1,2-dibromo-3-chloropr...	19.375	75	12773	54.61	ug/L	86
133) 1,3,5-trichlorobenzene	19.537	180	88647	44.12	ug/L	98
134) hexachlorobutadiene	20.253	225	40326	41.45	ug/L	99
135) naphthalene	20.426	128	141234	49.67	ug/L	98
136) 1,2,4-trichlorobenzene	20.149	180	73642	46.81	ug/L	93
137) 1,2,3-trichlorobenzene	20.667	180	62439	48.41	ug/L	99
138) hexachloroethane	18.862	201	41626	46.99	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\
Data File : X108304.D
Acq On    : 25 Oct 2010    3:53 pm
Operator  : JUNTAEP
Sample    : ja39318-2msd
Misc      : MS3802,vx4577,4.5,,,,,1
ALS Vial  : 6      Sample Multiplier: 1
```

Quant Time: Oct 26 16:50:42 2010  
Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
QLast Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



MX4516.M Tue Oct 26 16:50:50 2010 VOA-05

Page: 4

## 6.4.6

BFB

Data File : C:\MSDCHEM\1\DATA\X106943.D

Vial: 1

Acq On : 14 Sep 2010 8:52 am

Operator: JUNTAEP

Sample : BFB

Inst : MSX

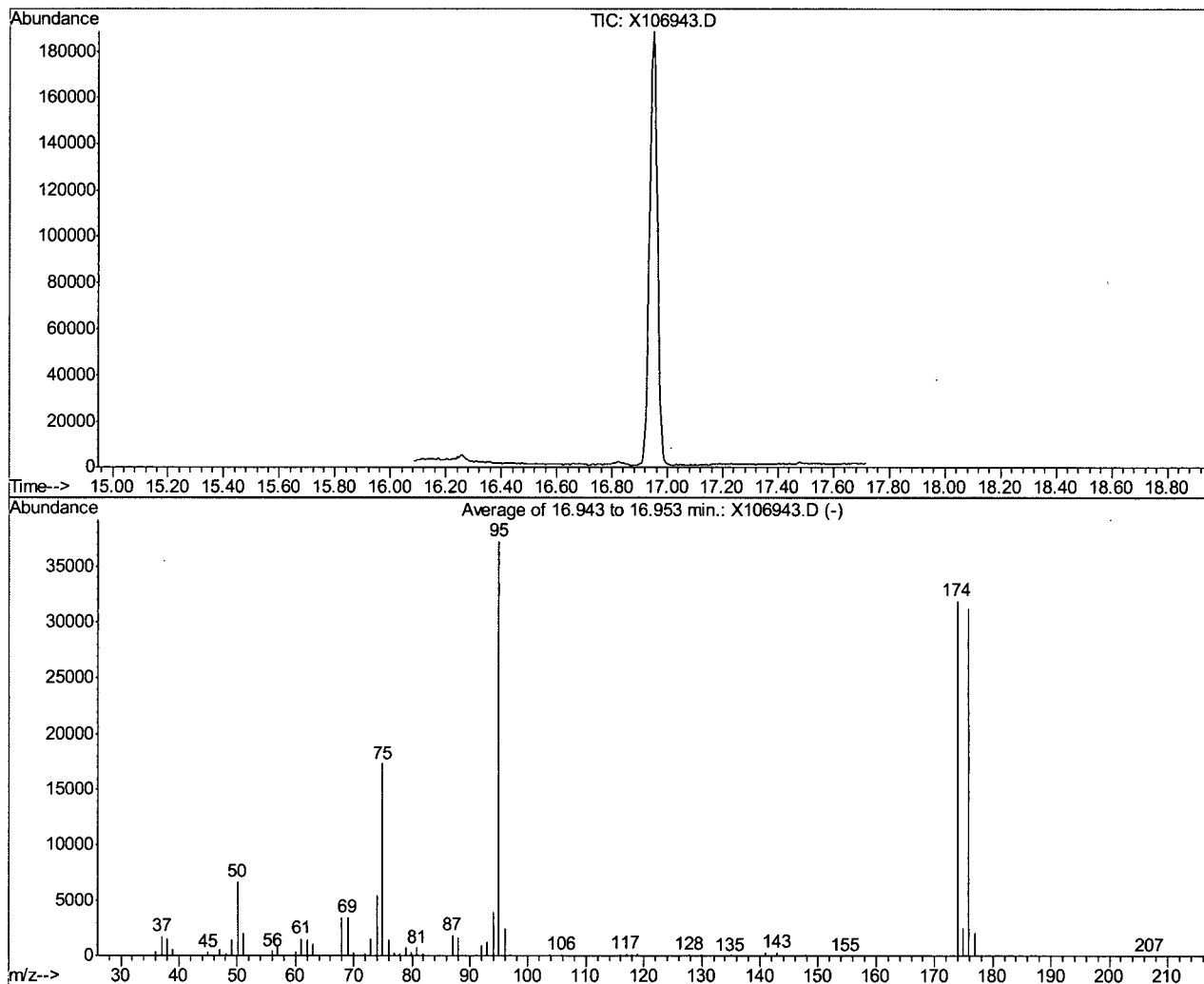
Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um



AutoFind: Scans 165, 166, 167; Background Corrected with Scan 155

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	18.1	6740	PASS
75	95	30	60	46.5	17354	PASS
95	95	100	100	100.0	37320	PASS
96	95	5	9	6.6	2449	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.6	31936	PASS
175	174	5	9	7.7	2469	PASS
176	174	95	101	97.9	31277	PASS
177	176	5	9	6.8	2136	PASS

X106943.D MX4516.M Tue Sep 14 15:02:50 2010 MSX

Average of 16.943 to 16.953 min.: X106943.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	356	50.05	6740	64.05	72	78.90	746
37.10	1733	51.05	1981	68.00	3402	79.95	243
38.05	1537	52.05	100	69.00	3472	80.90	758
39.00	578	55.05	83	70.00	268	81.90	148
40.00	29	56.05	466	72.05	201	85.90	21
43.10	29	57.00	918	73.00	1498	87.00	1844
44.00	121	60.00	347	74.00	5454	87.95	1674
45.05	341	61.00	1532	75.00	17354	90.90	39
47.00	571	62.00	1440	76.00	1455	91.05	85
48.05	223	63.05	1101	77.00	246	92.00	946
49.00	1485	63.90	28	77.95	207	93.00	1266

Average of 16.943 to 16.953 min.: X106943.D

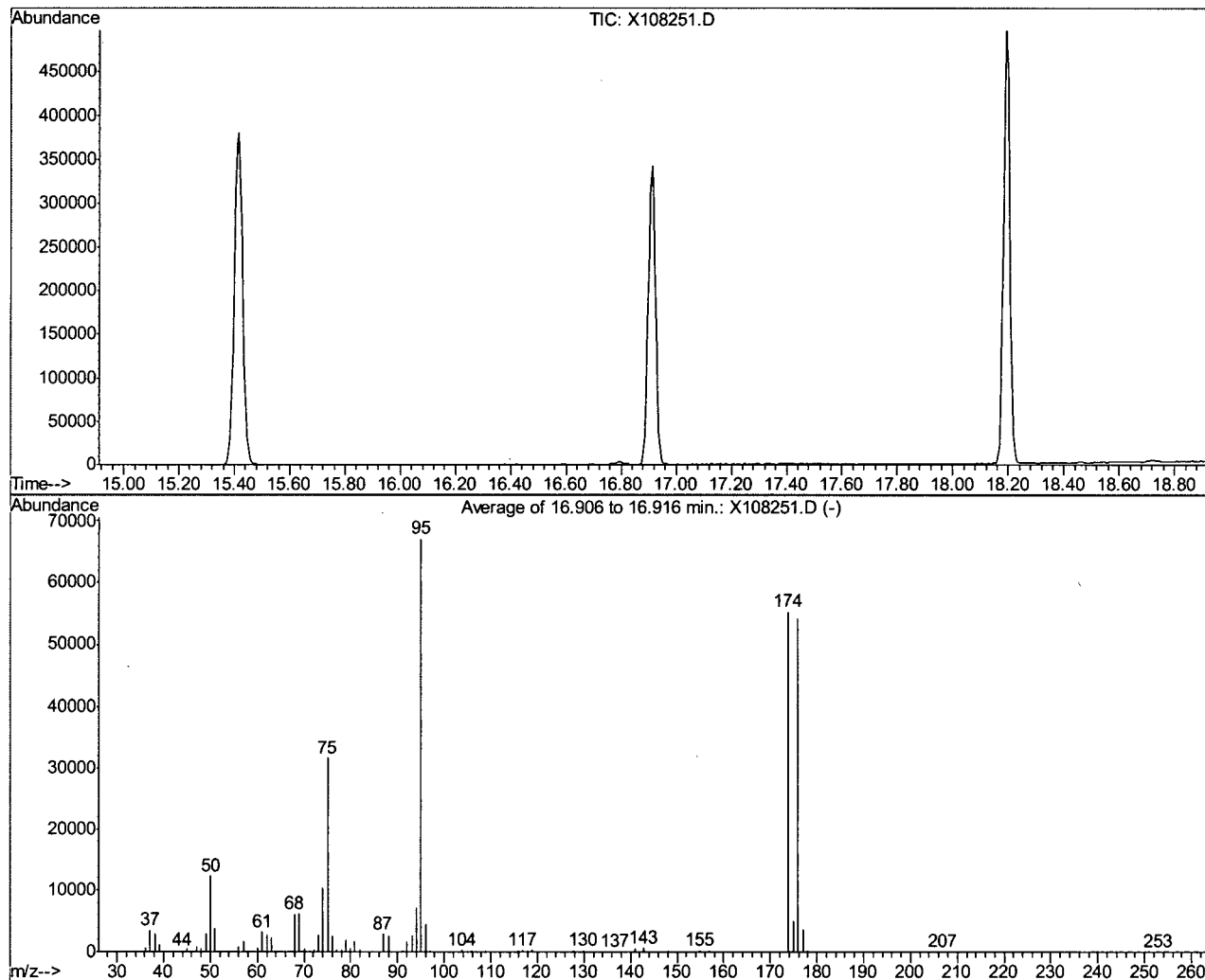
BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	3880	117.95	111	156.90	47		
95.00	37320	118.90	161	173.90	31936		
96.00	2449	127.95	130	174.95	2469		
96.95	82	129.00	20	175.90	31277		
103.85	118	129.90	128	176.90	2136		
104.95	51	130.90	20	177.95	56		
105.85	134	134.95	73	207.00	13		
115.00	23	140.90	288				
115.80	33	142.95	307				
115.95	81	147.85	74				
116.95	202	154.85	80				

BFB

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108251.D Vial: 11  
 Acq On : 23 Oct 2010 1:46 pm Operator: JUNTAEP  
 Sample : bfb Inst : MSX  
 Misc : MS3510,vx4575,5.0,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um



AutoFind: Scans 2567, 2568, 2569; Background Corrected with Scan 2557

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	18.4	12333	PASS
75	95	30	60	47.1	31634	PASS
95	95	100	100	100.0	67208	PASS
96	95	5	9	6.8	4561	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	82.3	55330	PASS
175	174	5	9	8.9	4938	PASS
176	174	95	101	98.1	54266	PASS
177	176	5	9	6.8	3687	PASS

X108251.D MX4516.M Mon Oct 25 16:42:27 2010 MSX

Average of 16.906 to 16.916 min.: X108251.D

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	649	52.05	152	69.00	6233	80.90	1728
37.05	3462	55.05	147	70.00	480	81.95	372
38.10	2977	56.05	928	72.10	347	86.00	51
39.10	1146	57.05	1646	73.00	2790	86.95	2917
44.00	260	60.00	695	74.00	10317	88.00	2633
45.05	587	61.00	3203	75.00	31634	90.95	260
47.00	947	62.05	2740	76.00	2506	92.00	1717
48.05	460	63.00	2218	76.95	434	93.00	2591
49.10	2879	64.00	234	78.00	285	94.00	7130
50.10	12333	67.20	110	78.90	1840	95.00	67208
51.05	3830	68.00	6043	79.90	555	96.00	4561

Average of 16.906 to 16.916 min.: X108251.D

bfb

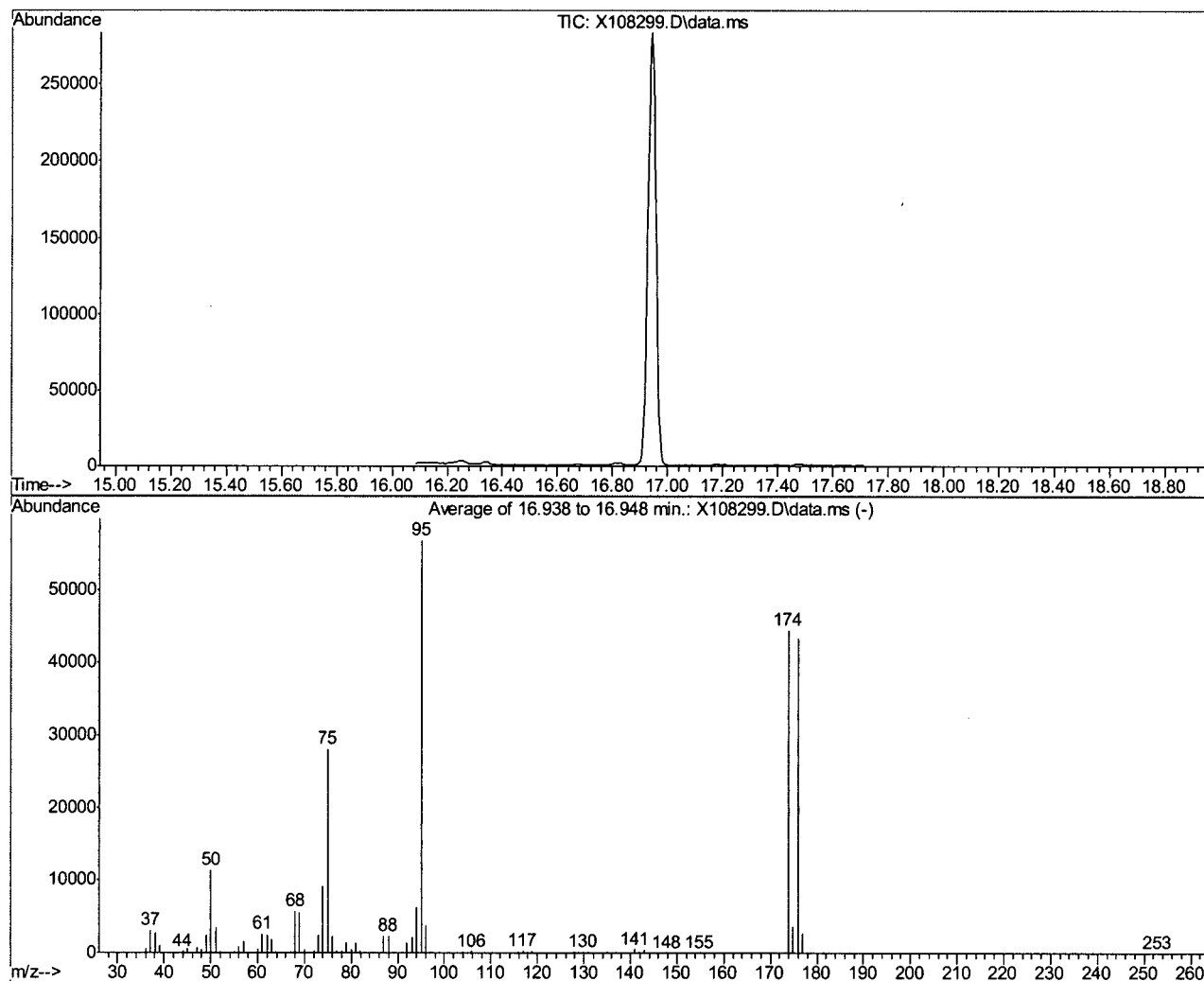
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.00	133	134.95	82	176.90	3687		
103.90	268	136.70	35	177.90	137		
104.90	91	140.90	546	206.90	10		
105.95	233	142.85	617	252.95	76		
115.90	221	147.95	92				
116.90	337	154.95	200				
117.95	247	156.90	100				
118.90	277	172.10	74				
127.85	198	173.90	55330				
128.95	90	174.95	4938				
129.90	249	175.90	54266				

BFB

Data File : C:\msdchem\1\DATA\X-...vx4577-4578\X108299.D Vial: 1  
 Acq On : 25 Oct 2010 12:25 pm Operator: JUNTAEP  
 Sample : bfb Inst : MSX  
 Misc : MS3780,vx4577,5.0,,,1 Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MXBFB.M (RTE Integrator)  
 Title : SW-846 Method 8260



AutoFind: Scans 164, 165, 166; Background Corrected with Scan 153

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	20.0	11372	PASS
75	95	30	60	49.5	28176	PASS
95	95	100	100	100.0	56882	PASS
96	95	5	9	6.6	3769	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	78.1	44442	PASS
175	174	5	9	8.1	3618	PASS
176	174	95	101	97.6	43362	PASS
177	176	5	9	6.4	2755	PASS

X108299.D MXBFB.M Tue Oct 26 16:32:09 2010 VOA-05

Average of 16.938 to 16.948 min.: X108299.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	639	50.05	11372	63.95	158	76.95	326
37.05	3103	51.05	3501	67.00	140	78.00	261
38.05	2775	52.00	152	68.00	5755	78.90	1444
39.10	965	55.10	127	69.00	5521	79.95	444
40.00	67	56.00	834	70.00	457	80.90	1529
44.05	263	57.00	1602	71.00	23	81.90	367
45.05	522	58.00	51	72.05	296	85.90	38
46.10	31	60.05	538	73.00	2491	86.95	2314
47.05	730	61.00	2649	74.00	9236	87.95	2351
48.00	382	62.00	2434	75.00	28176	90.90	216
49.05	2511	63.05	1835	76.00	2367	92.00	1503

Average of 16.938 to 16.948 min.: X108299.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	2238	111.90	29	129.85	191	147.00	23
94.00	6273	112.80	20	130.85	116	147.85	117
95.00	56882	114.80	29	134.95	100	149.90	21
96.00	3769	115.00	21	136.85	94	153.90	20
97.05	112	115.95	205	139.70	30	154.95	114
103.95	206	116.90	303	140.95	525	156.80	53
104.80	47	117.95	160	141.85	90	157.00	24
105.00	29	118.90	271	142.95	509	158.80	20
105.85	230	127.80	93	144.80	21	159.00	28
109.90	21	127.95	91	145.80	32	160.90	87
110.80	28	128.90	78	146.00	33	171.95	75

Average of 16.938 to 16.948 min.: X108299.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.90	44442						
174.95	3618						
175.90	43362						
176.90	2755						
177.80	29						
178.00	47						
252.90	24						

6.5.3

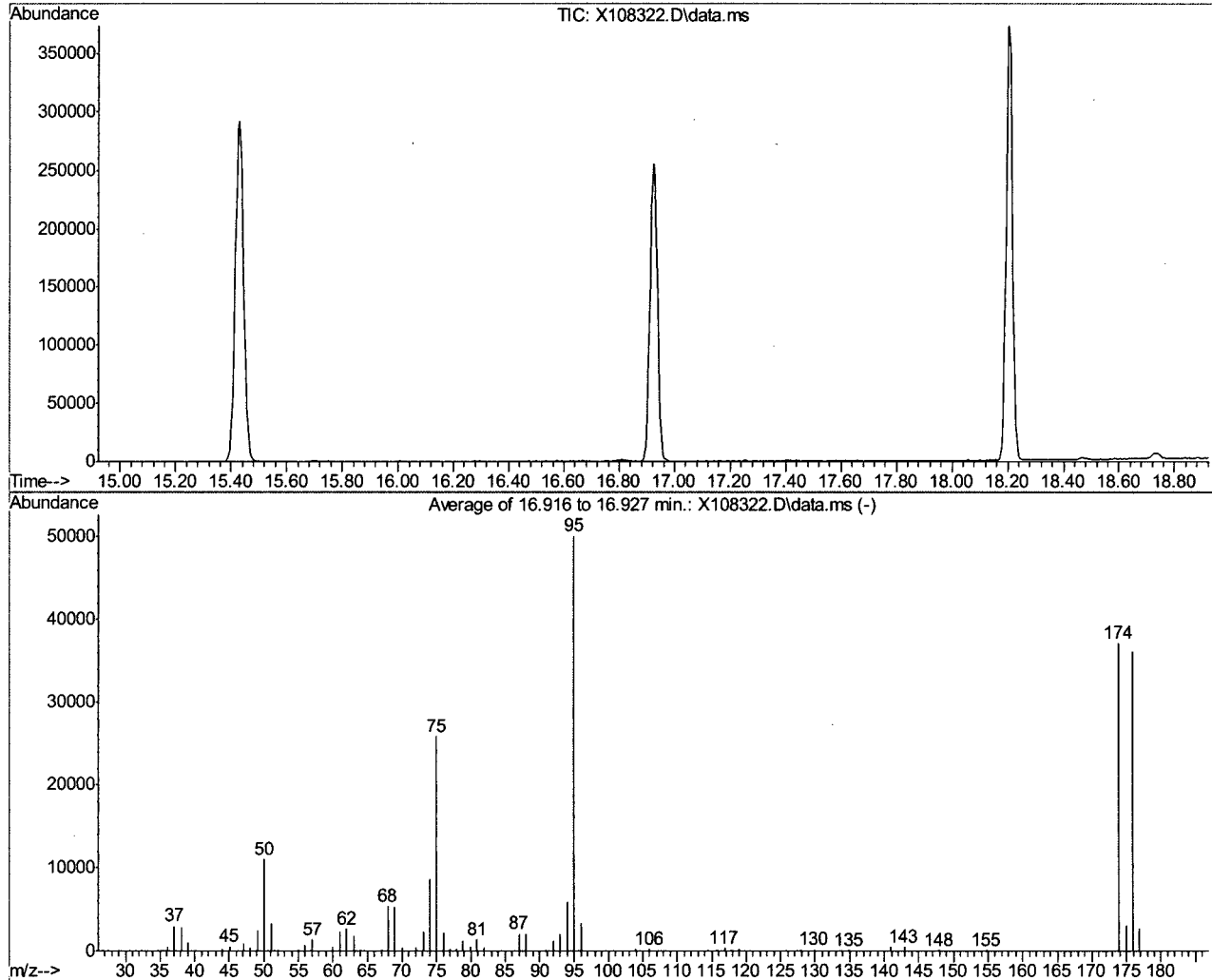
6



BFB

Data File : C:\msdchem\1\DATA\X-...vx4577-4578\X108322.D Vial: 24  
 Acq On : 26 Oct 2010 12:10 am Operator: JUNTAEP  
 Sample : bfb Inst : MSX  
 Misc : MS3790,vx4578,5.0,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um



AutoFind: Scans 2569, 2570, 2571; Background Corrected with Scan 2560

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	22.0	11006	PASS
75	95	30	60	51.7	25914	PASS
95	95	100	100	100.0	50106	PASS
96	95	5	9	6.7	3378	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	74.2	37168	PASS
175	174	5	9	8.2	3036	PASS
176	174	95	101	97.3	36176	PASS
177	176	5	9	7.4	2674	PASS

X108322.D MX4516.M Wed Oct 27 08:33:26 2010 VOA-05

Average of 16.916 to 16.927 min.: X108322.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	546	52.00	169	69.00	5308	80.90	1392
37.10	3018	55.00	161	70.00	417	81.90	326
38.10	2785	56.00	839	72.05	326	87.00	2086
39.10	984	57.05	1409	73.05	2297	88.00	2064
44.05	307	60.00	569	74.00	8656	90.95	194
45.05	545	61.00	2316	75.00	25914	92.00	1315
47.05	892	62.00	2660	76.00	2202	92.95	2020
48.05	354	63.00	1819	77.00	310	94.00	5865
49.05	2455	64.05	156	77.90	222	95.00	50106
50.10	11006	67.05	115	78.90	1347	96.00	3378
51.05	3359	68.00	5358	79.95	457	97.00	41

Average of 16.916 to 16.927 min.: X108322.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
103.90	223	136.80	33				
104.90	37	140.95	457				
105.95	231	142.90	469				
115.90	181	145.80	38				
116.90	339	147.95	129				
117.85	152	154.85	91				
118.90	219	172.10	47				
127.90	163	173.90	37168				
128.80	37	174.95	3036				
129.90	196	175.90	36176				
134.90	77	176.90	2674				

6.5.4

6

## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4362A\H100432.D Vial: 1  
Acq On : 27 Aug 2010 12:50 pm Operator: kristis  
Sample : ic4362-100 Inst : MSH  
Misc : ms1183,eh4362,1000,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Aug 27 16:18 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Fri Aug 27 16:18:20 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	0.00	56	0d	0.00	ppm	
Spiked Amount	50.000		Recovery	=	0.00%	
Target Compounds						
1) Ethylene Glycol	6.33	31	23895465	98.31	ppm	Qvalue 100
2) Propylene Glycol	7.08	45	29827433	95.33	ppm	98

-----  
(#) = qualifier out of range (m) = manual integration  
H100432.D M4362EPG.M Mon Aug 30 15:53:34 2010 MSH

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4362A\H100432.D

Vial: 1

Acq On : 27 Aug 2010 12:50 pm

Operator: kristis

Sample : ic4362-100

Inst : MSH

Misc : ms1183,eh4362,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Aug 27 16:18 2010

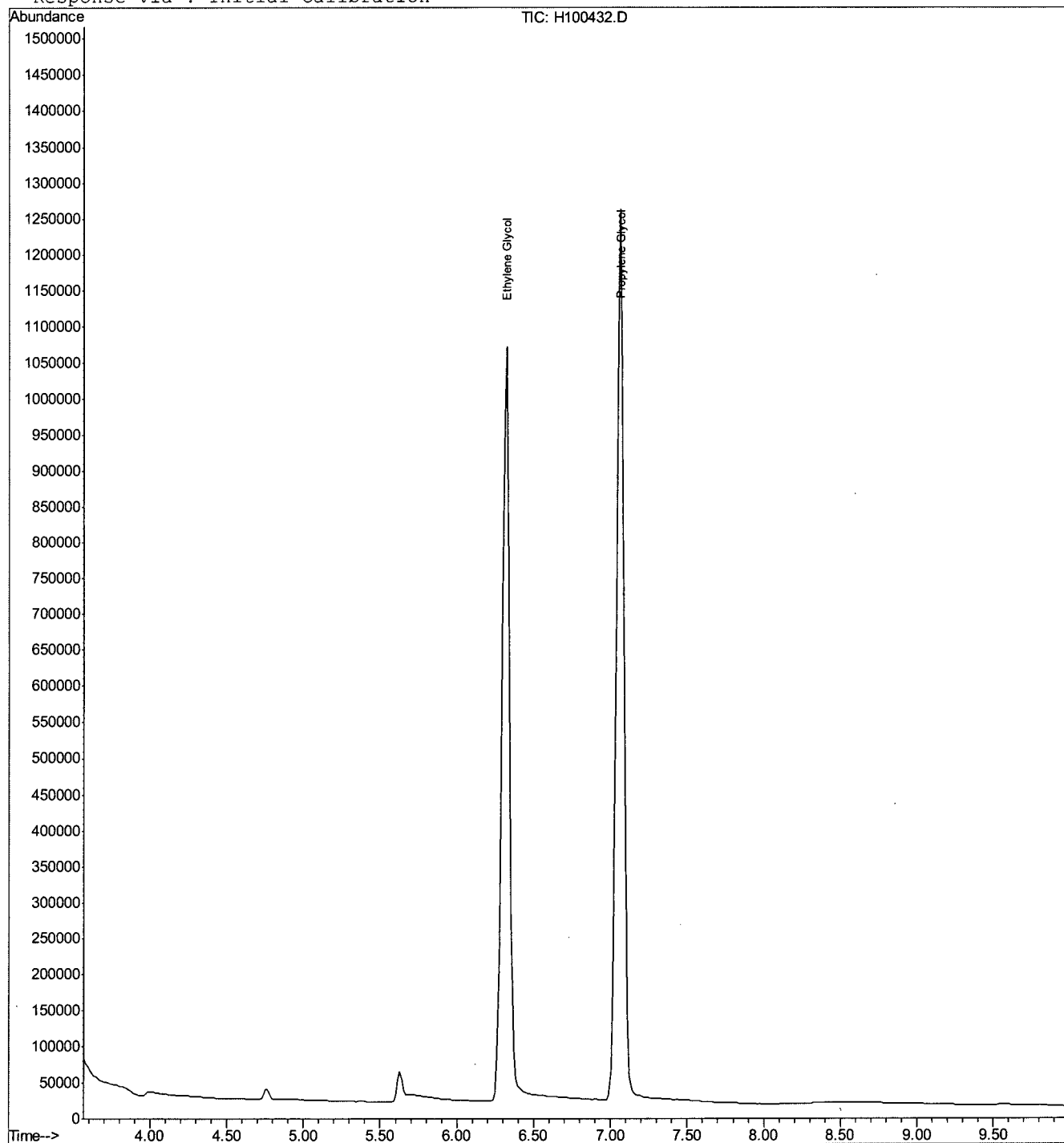
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Mon Aug 30 14:00:36 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4362A\H100433.D Vial: 2  
Acq On : 27 Aug 2010 1:05 pm Operator: kristis  
Sample : ic4362-50 Inst : MSH  
Misc : ms1183,eh4362,1000,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Aug 27 13:04 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Aug 25 17:59:11 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.08	56	5612338	50.65	ppm	0.02
Spiked Amount	50.000		Recovery	=	101.30%	
Target Compounds						
1) Ethylene Glycol	6.40	31	12153494	40.39	ppm	99
2) Propylene Glycol	7.13	45	15644674	57.51	ppm	99

-----  
(#) = qualifier out of range (m) = manual integration  
H100433.D M4362EPG.M Mon Aug 30 15:53:41 2010 MSH

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## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4362A\H100433.D

Vial: 2

Acq On : 27 Aug 2010 1:05 pm

Operator: kristis

Sample : ic4362-50

Inst : MSH

Misc : ms1183,eh4362,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Aug 27 13:04 2010

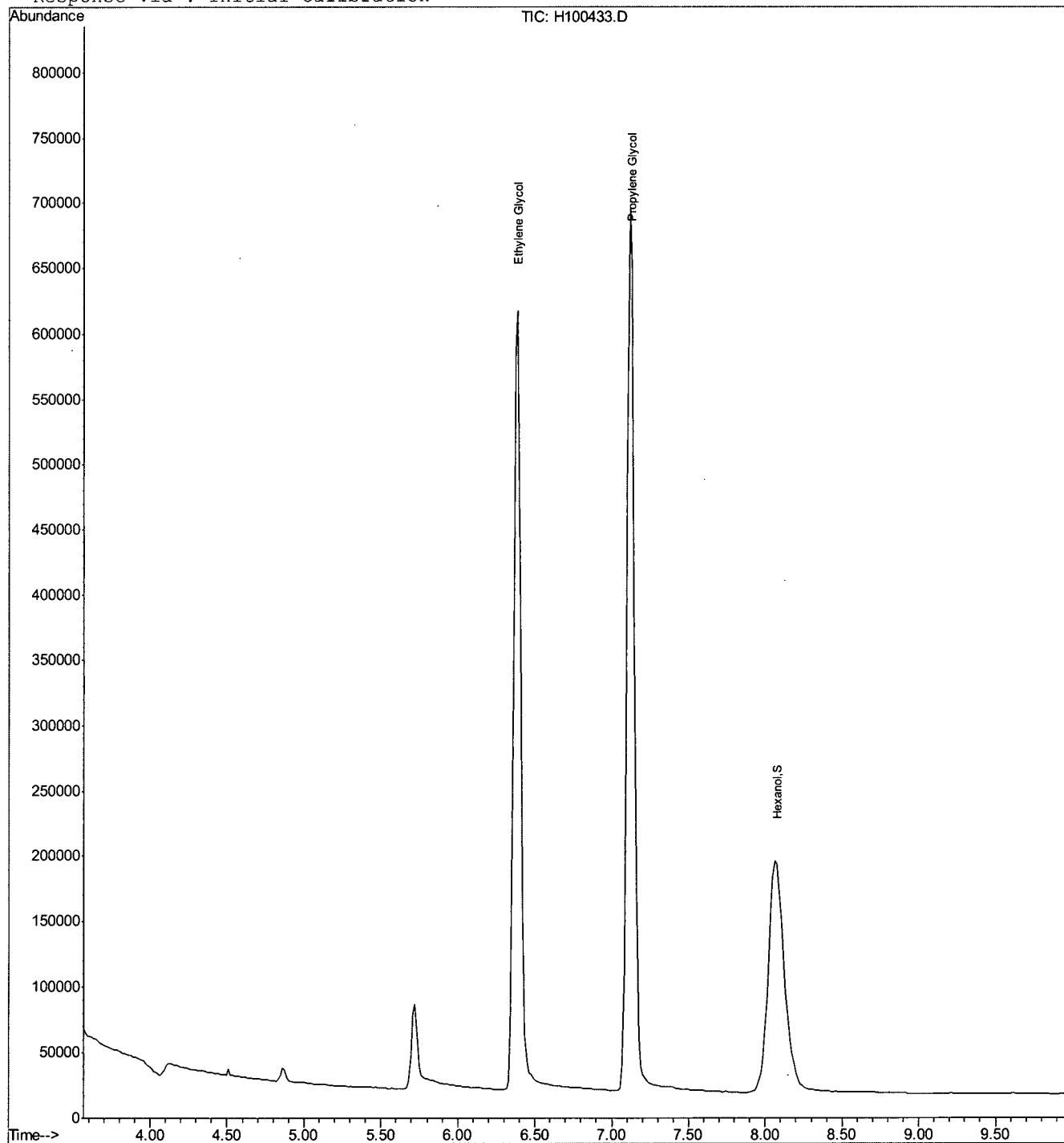
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Mon Aug 30 14:00:36 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4362A\H100434.D Vial: 3  
Acq On : 27 Aug 2010 1:20 pm Operator: kristis  
Sample : ic4362-25 Inst : MSH  
Misc : msl183,eh4362,1000,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Aug 27 16:19 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Fri Aug 27 16:18:58 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.03	56	2843604	25.16	ppm	0.00
Spiked Amount	50.000		Recovery	=	50.32%	
Target Compounds						
1) Ethylene Glycol	6.01	31	5939416	24.42	ppm	Qvalue # 100
2) Propylene Glycol	6.80	45	7371473	24.20	ppm	96

-----  
(#) = qualifier out of range (m) = manual integration

H100434.D M4362EPG.M Mon Aug 30 15:53:44 2010 MSH

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## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4362A\H100434.D

Vial: 3

Acq On : 27 Aug 2010 1:20 pm

Operator: kristis

Sample : ic4362-25

Inst : MSH

Misc : ms1183,eh4362,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Aug 27 16:19 2010

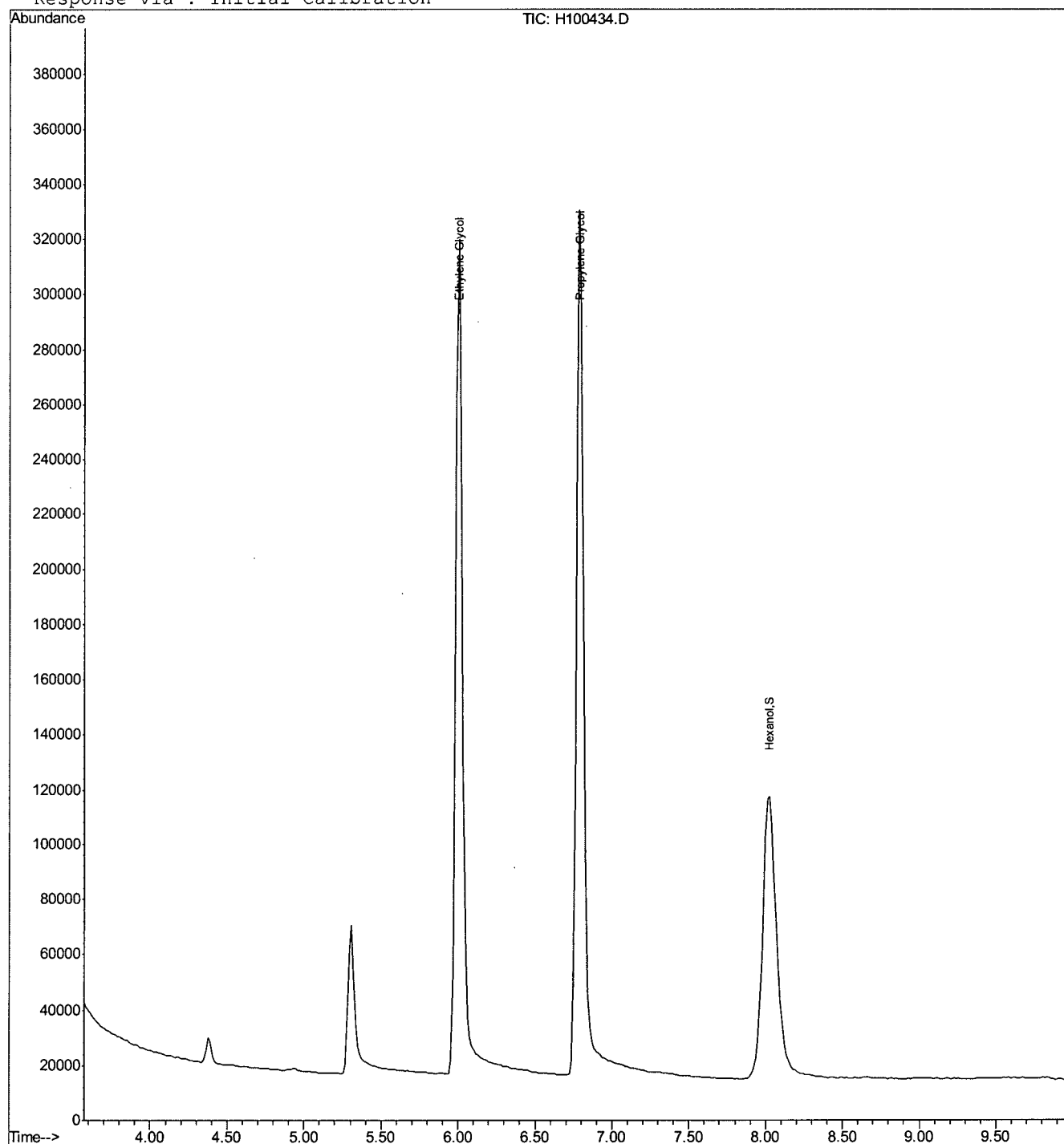
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Mon Aug 30 14:00:36 2010

Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4362A\H100435.D Vial: 4  
Acq On : 27 Aug 2010 1:35 pm Operator: kristis  
Sample : ic4362-10 Inst : MSH  
Misc : ms1183,eh4362,1000,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Aug 27 16:20 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Fri Aug 27 16:20:02 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.11	56	795152	7.81	ppm	0.00
Spiked Amount	50.000		Recovery	=	15.62%	
Target Compounds						
1) Ethylene Glycol	6.10	31	2492932	10.66	ppm	98
2) Propylene Glycol	6.88	45	2806695	9.68	ppm	99

-----  
(#) = qualifier out of range (m) = manual integration

H100435.D M4362EPG.M Mon Aug 30 15:53:47 2010 MSH

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## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4362A\H100435.D

Vial: 4

Acq On : 27 Aug 2010 1:35 pm

Operator: kristis

Sample : ic4362-10

Inst : MSH

Misc : ms1183,eh4362,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Aug 27 16:20 2010

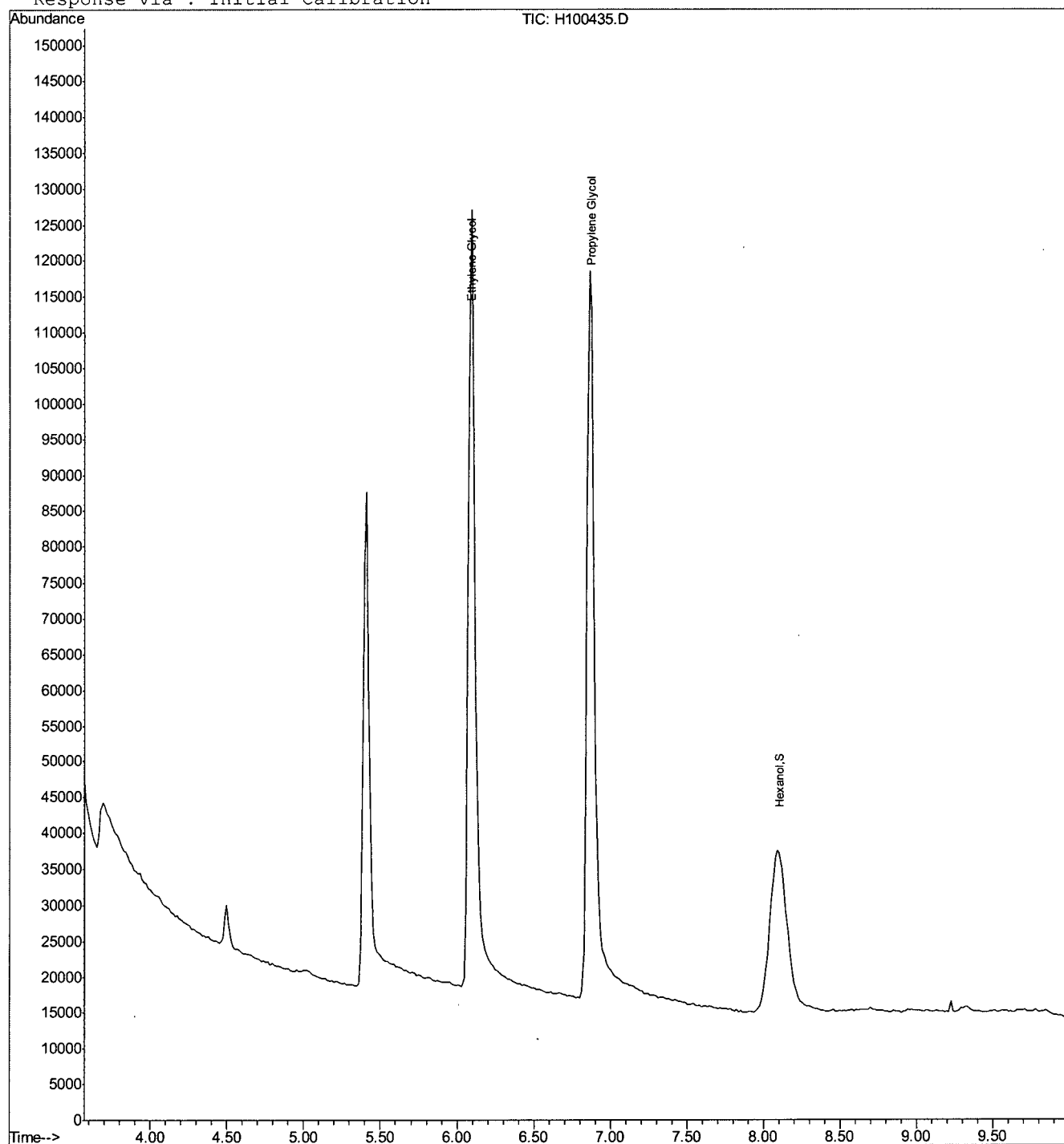
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Mon Aug 30 14:00:36 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4362A\H100436.D Vial: 5  
Acq On : 27 Aug 2010 1:50 pm Operator: kristis  
Sample : ic4362-5 Inst : MSH  
Misc : ms1183,eh4362,1000,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Aug 27 16:20 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Fri Aug 27 16:20:16 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.10	56	559397	5.49	ppm	0.00
Spiked Amount	50.000		Recovery	=	10.98%	
Target Compounds						
1) Ethylene Glycol	6.18	31	1278566	5.28	ppm	Qvalue 100
2) Propylene Glycol	6.95	45	1321584	4.45	ppm	99

-----  
(#) = qualifier out of range (m) = manual integration

H100436.D M4362EPG.M Mon Aug 30 15:53:51 2010 MSH

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## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4362A\H100436.D

Vial: 5

Acq On : 27 Aug 2010 1:50 pm

Operator: kristis

Sample : ic4362-5

Inst : MSH

Misc : ms1183,eh4362,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Aug 27 16:20 2010

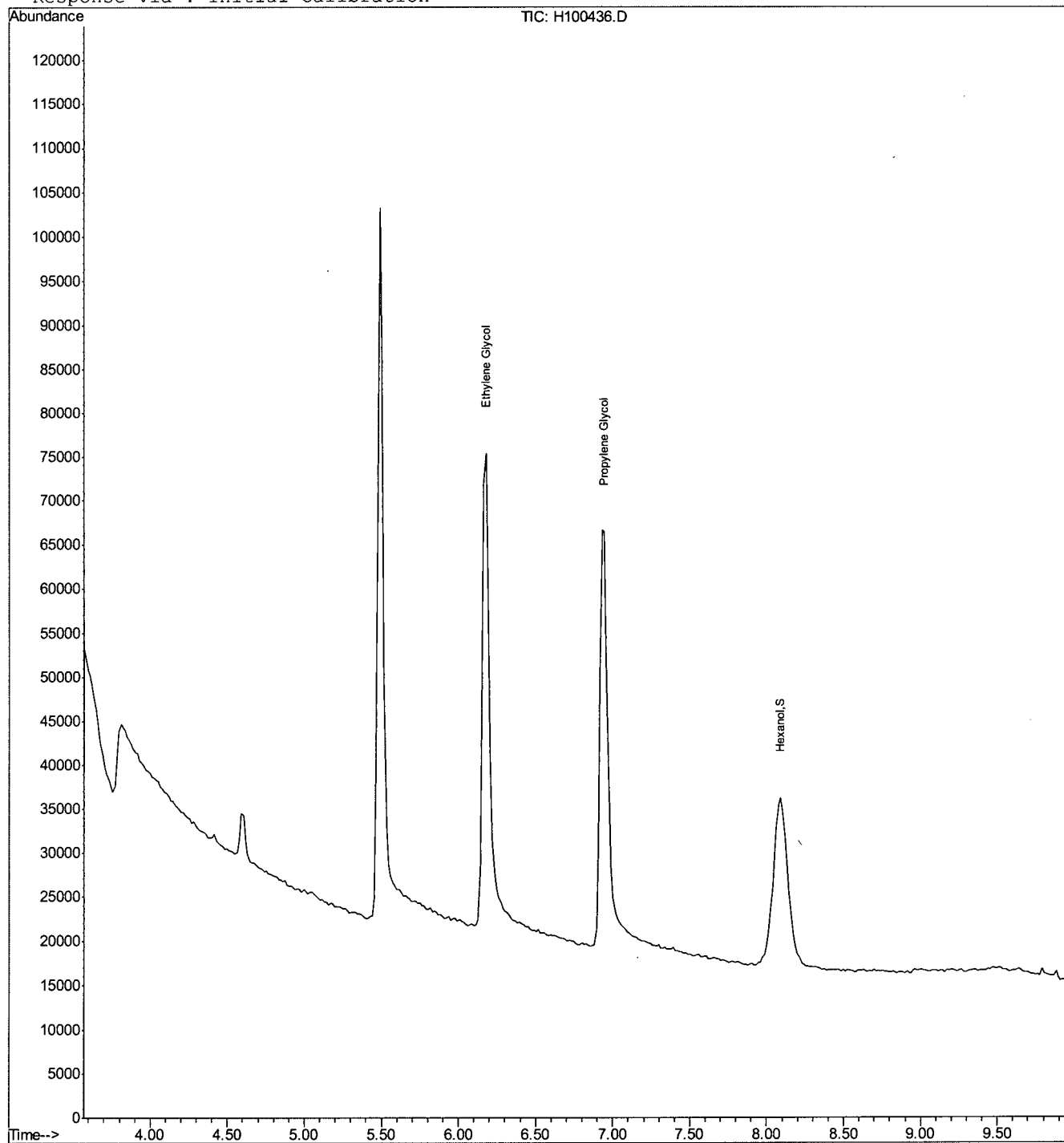
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Mon Aug 30 14:00:36 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4362A\H100437.D Vial: 6  
Acq On : 27 Aug 2010 4:40 pm Operator: kristis  
Sample : ic4362-1 Inst : MSH  
Misc : ms1183,eh4362,1000,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Aug 27 16:48 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Fri Aug 27 16:48:30 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.12	56	64876	0.67	ppm	0.00
Spiked Amount	50.000		Recovery	=	1.34%	
Target Compounds						
1) Ethylene Glycol	6.19	31	251833	1.10	ppm	96
2) Propylene Glycol	6.96	45	266887	1.06	ppm	99

-----  
(#) = qualifier out of range (m) = manual integration

H100437.D M4362EPG.M Mon Aug 30 15:53:54 2010 MSH

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## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4362A\H100437.D

Vial: 6

Acq On : 27 Aug 2010 4:40 pm

Operator: kristis

Sample : ic4362-1

Inst : MSH

Misc : msl183,eh4362,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Aug 27 16:48 2010

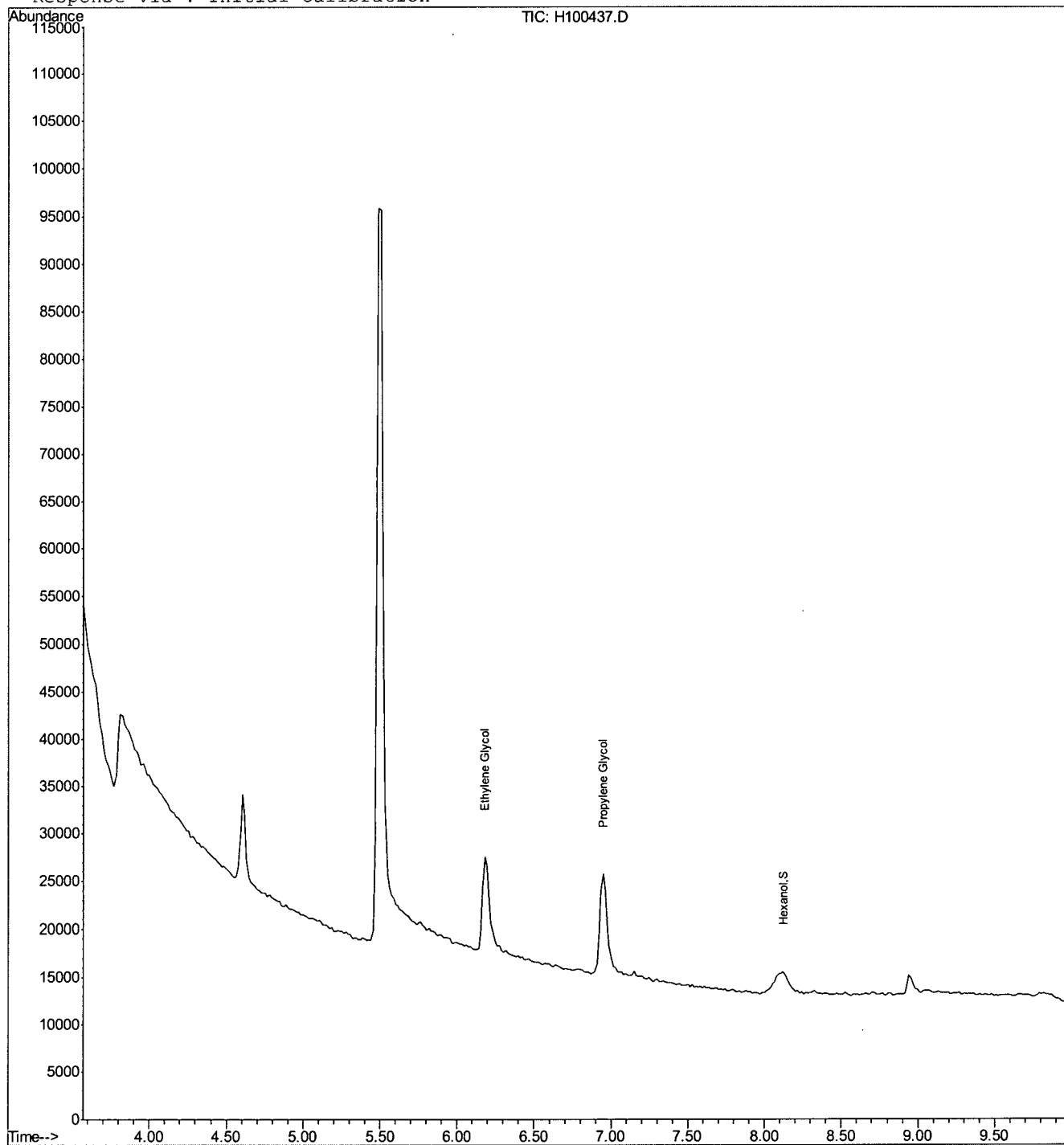
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Mon Aug 30 14:00:36 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4362A\H100438.D Vial: 7  
Acq On : 27 Aug 2010 5:03 pm Operator: kristis  
Sample : ic4362-0.5 Inst : MSH  
Misc : ms1183,eh4362,1000,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Aug 27 17:00 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Fri Aug 27 16:48:45 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.07	56	48749	0.52	ppm	-0.06
Spiked Amount	50.000		Recovery	=	1.04%	
Target Compounds						
1) Ethylene Glycol	6.24	31	151986	0.73	ppm	89
2) Propylene Glycol	7.00	45	160197	0.65	ppm	94

-----  
(#) = qualifier out of range (m) = manual integration

H100438.D M4362EPG.M Mon Aug 30 15:53:58 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4362A\H100438.D

Vial: 7

Acq On : 27 Aug 2010 5:03 pm

Operator: kristis

Sample : ic4362-0.5

Inst : MSH

Misc : ms1183,eh4362,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Aug 27 17:00 2010

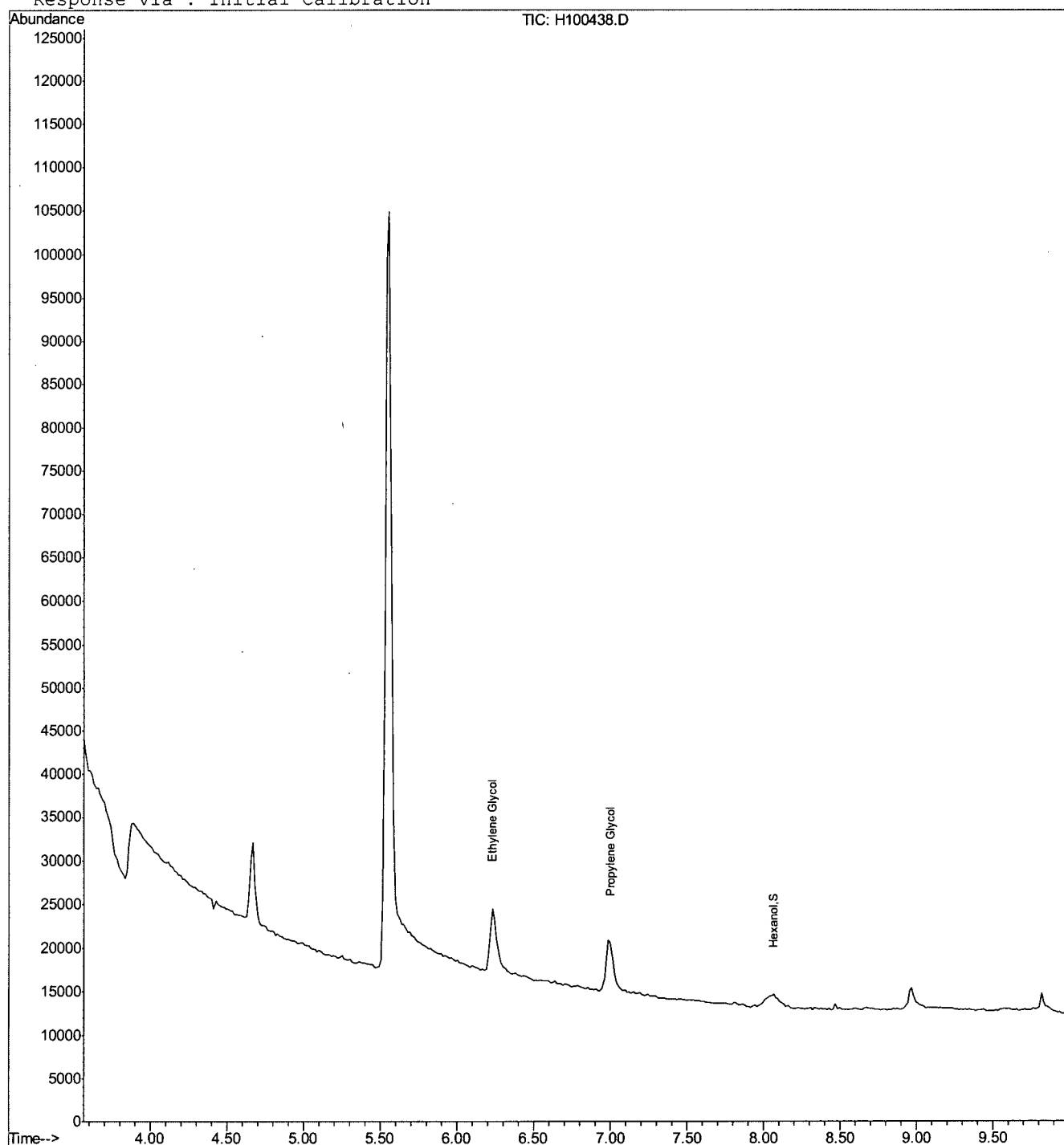
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Mon Aug 30 14:00:36 2010

Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4362A\H100439.D Vial: 8  
Acq On : 27 Aug 2010 6:37 pm Operator: kristis  
Sample : ic4362-0.25 Inst : MSH  
Misc : msl183,eh4362,1000,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Aug 30 13:59 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Mon Aug 30 13:59:04 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	7.98	56	33430	0.36	ppm	0.00
Spiked Amount	50.000		Recovery	=	0.72%	
Target Compounds						
1) Ethylene Glycol	6.24	31	77098	0.37	ppm	Qvalue # 94
2) Propylene Glycol	6.99	45	58555	0.24	ppm	85

-----  
(#) = qualifier out of range (m) = manual integration

H100439.D M4362EPG.M Mon Aug 30 15:54:01 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4362A\H100439.D

Vial: 8

Acq On : 27 Aug 2010 6:37 pm

Operator: kristis

Sample : ic4362-0.25

Inst : MSH

Misc : ms1183,eh4362,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Aug 30 13:59 2010

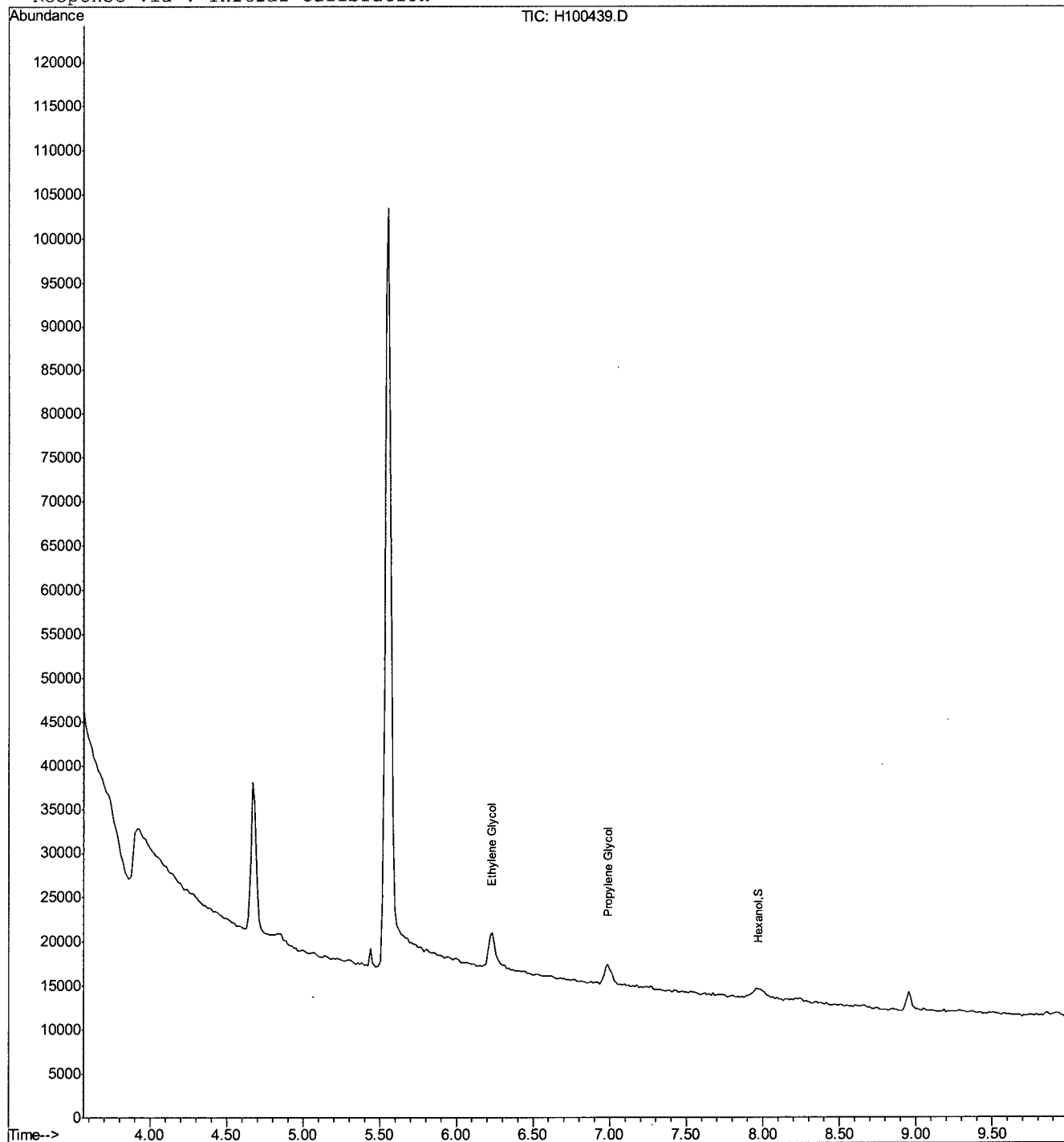
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Mon Aug 30 14:00:36 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4363\H100443.D Vial: 2  
Acq On : 31 Aug 2010 12:37 pm Operator: kristis  
Sample : icv4362-5 Inst : MSH  
Misc : msl183,eh4363,1000,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Aug 31 16:03 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Tue Aug 31 16:03:32 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	0.00	56	0	0.00	ppm	
Spiked Amount	50.000		Recovery	=	0.00%	
Target Compounds						
1) Ethylene Glycol	6.44	31	1387482	5.31	ppm	Qvalue 97
2) Propylene Glycol	7.17	45	1535512	5.41	ppm	99

-----  
(#) = qualifier out of range (m) = manual integration

H100443.D M4362EPG.M Tue Aug 31 16:03:57 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4363\H100443.D

Vial: 2

Acq On : 31 Aug 2010 12:37 pm

Operator: kristis

Sample : icv4362-5

Inst : MSH

Misc : ms1183,eh4363,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Aug 31 16:03 2010

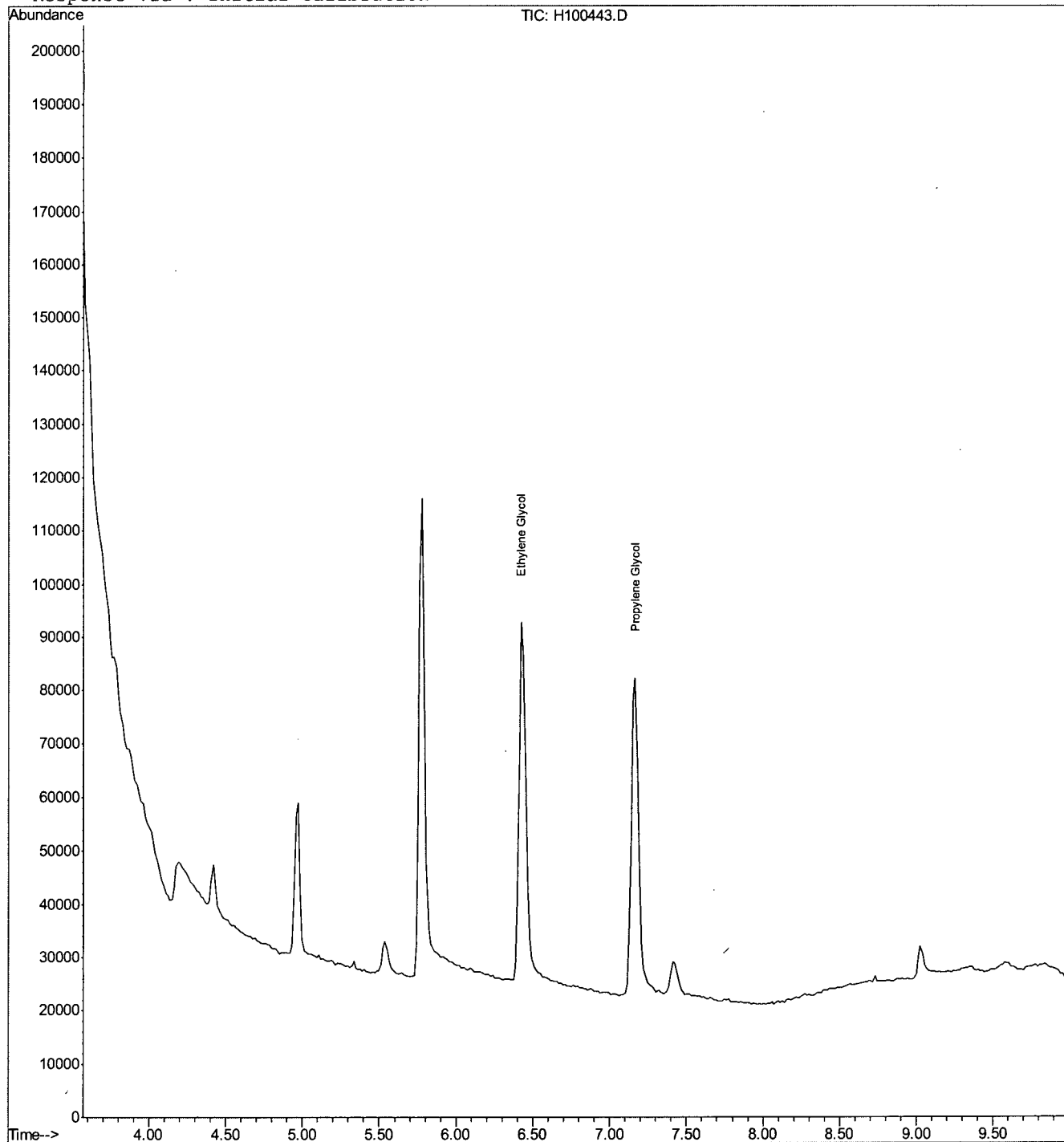
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Tue Aug 31 16:03:32 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100536.D Vial: 1  
Acq On : 25 Oct 2010 5:18 pm Operator: kristis  
Sample : cc4362-5 Inst : MSH  
Misc : ms3472,eh4373,1000,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Oct 25 17:28 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Mon Oct 25 17:28:30 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.15	56	427403	4.19 ppm		0.01
Spiked Amount	50.000		Recovery	=	8.38%	
Target Compounds						
1) Ethylene Glycol	6.44	31	1541109	5.90 ppm		Qvalue 100
2) Propylene Glycol	7.15	45	2091724	7.36 ppm		99

-----  
(#) = qualifier out of range (m) = manual integration

H100536.D M4362EPG.M Wed Nov 03 16:37:36 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100536.D

Vial: 1

Acq On : 25 Oct 2010 5:18 pm

Operator: kristis

Sample : cc4362-5

Inst : MSH

Misc : ms3472,eh4373,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 25 17:28 2010

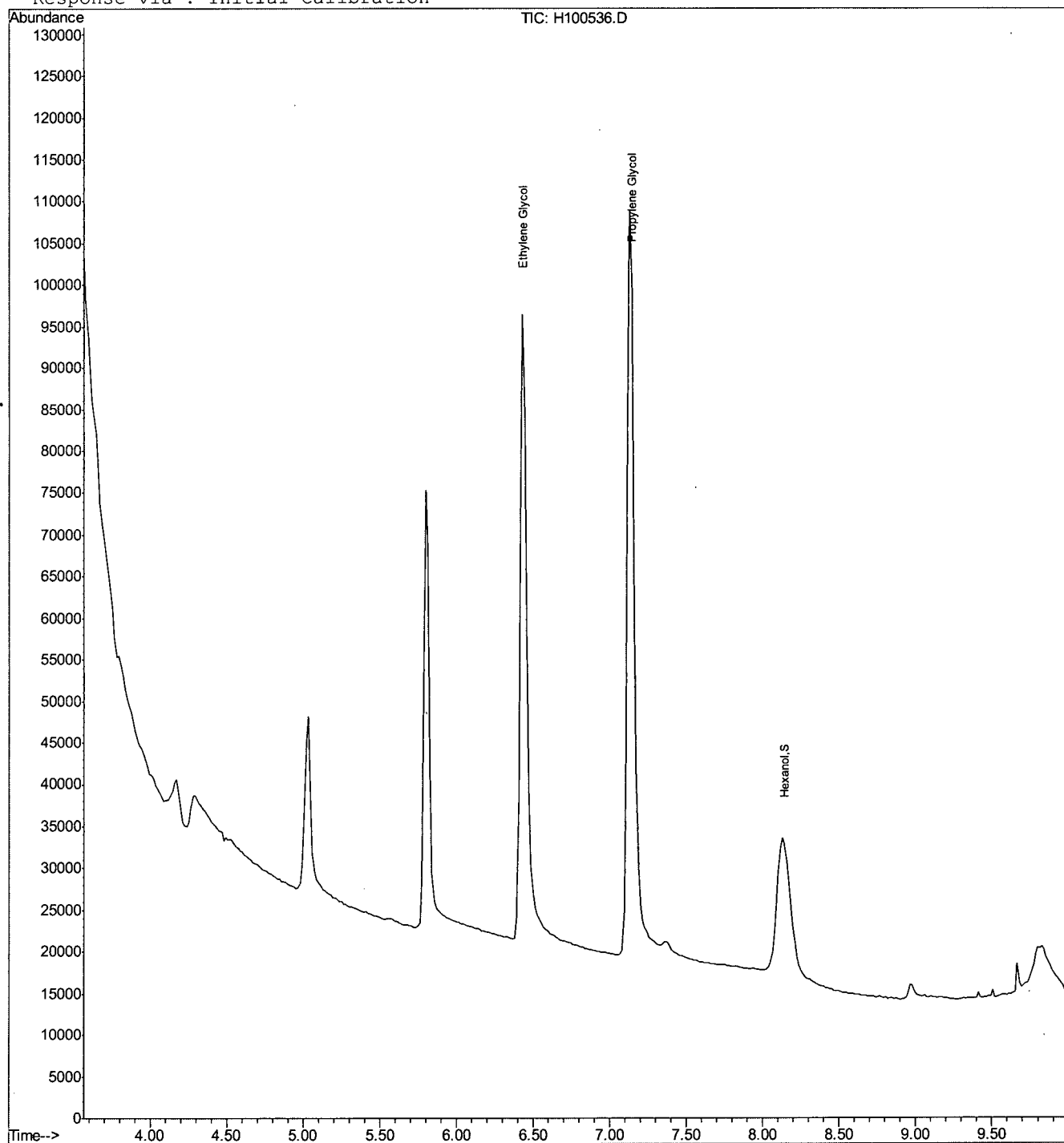
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 13:28:04 2010

Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4373\H100559.D Vial: 1  
Acq On : 26 Oct 2010 8:20 am Operator: kristis  
Sample : cc4362-5 Inst : MSH  
Misc : ms3472,eh4373,1000,,,1,1 Multiplr: 1.00  
MS Integration Params: LSCINT.E  
Quant Time: Nov 3 16:54 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)  
Title : Ethylene Glycol Propylene Glycol  
Last Update : Wed Nov 03 16:54:48 2010  
Response via : Initial Calibration  
DataAcq Meth : M4362EPG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
System Monitoring Compounds						
3) Hexanol	8.26	56	492414	4.83	ppm	0.00
Spiked Amount	50.000		Recovery	=	9.66%	
Target Compounds						
1) Ethylene Glycol	6.71	31	1429749	5.48	ppm	Qvalue 99
2) Propylene Glycol	7.39	45	1744114	6.14	ppm	98

-----  
(#) = qualifier out of range (m) = manual integration

H100559.D M4362EPG.M Wed Nov 03 16:55:07 2010 MSH

Page 1

## Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4373\H100559.D

Vial: 1

Acq On : 26 Oct 2010 8:20 am

Operator: kristis

Sample : cc4362-5

Inst : MSH

Misc : ms3472,eh4373,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 16:54 2010

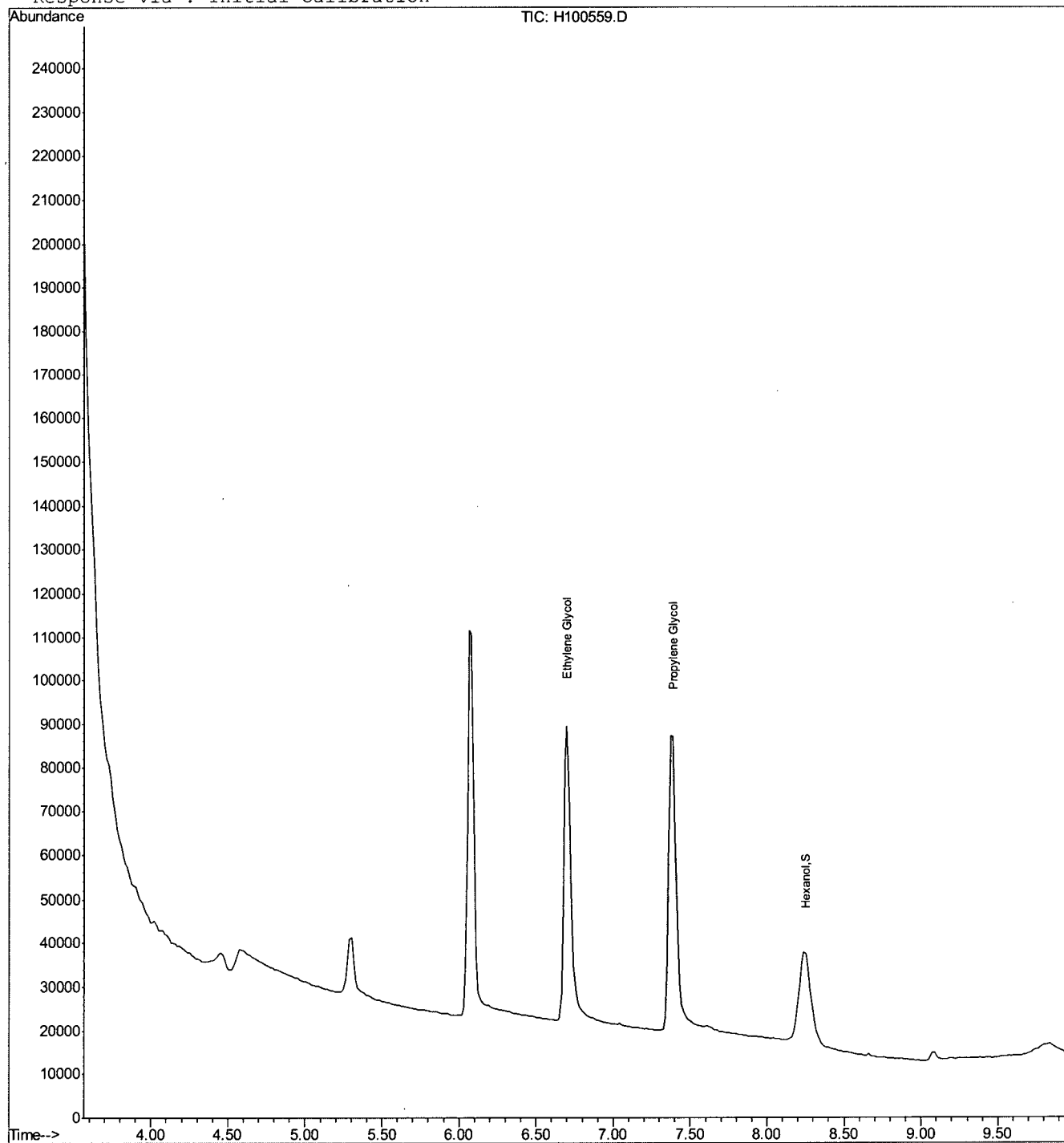
Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)

Title : Ethylene Glycol Propylene Glycol

Last Update : Wed Nov 03 16:54:48 2010

Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106944.D

Vial: 2

Acq On : 14 Sep 2010 9:27 am

Operator: JUNTAEP

Sample : IC4516-1

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 09:51:13 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Mon Sep 13 16:49:33 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.36	65	54711	500.00	ug/L	-0.02
6) pentafluorobenzene	10.05	168	128494	50.00	ug/L	-0.02
60) 1,4-difluorobenzene	11.22	114	194666	50.00	ug/L	-0.02
91) chlorobenzene-d5	15.43	117	175240	50.00	ug/L	-0.01
106) 1,4-dichlorobenzene-d4	18.20	152	84419	50.00	ug/L	-0.01

## System Monitoring Compounds

52) dibromofluoromethane (s)	10.11	113	1571	1.48	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	2.96%#
53) 1,2-dichloroethane-d4 (s)	10.64	65	1617	1.29	ug/L	-0.02
Spiked Amount	50.000	Range	65 - 132	Recovery	=	2.58%#
83) toluene-d8 (s)	13.41	98	5630	1.30	ug/L	-0.01
Spiked Amount	50.000	Range	74 - 129	Recovery	=	2.60%#
108) 4-bromofluorobenzene (s)	16.93	95	2404	1.45	ug/L	-0.01
Spiked Amount	50.000	Range	62 - 138	Recovery	=	2.90%#

## Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.50	59	446	3.27	ug/L	71
4) acrolein	6.42	56	2039	12.50	ug/L #	77
12) chlorodifluoromethane	3.81	51	1266	1.16	ug/L	67
13) dichlorodifluoromethane	3.79	85	1483	0.75	ug/L	90
16) chloromethane	4.09	50	2476	1.48	ug/L	84
17) vinyl chloride	4.36	62	1815	1.21	ug/L	90
19) bromomethane	5.03	94	1231	1.18	ug/L	93
20) chloroethane	5.22	64	975	1.23	ug/L	72
21) trichlorofluoromethane	5.67	101	1665	0.78	ug/L	96
22) ethyl ether	6.13	74	474	0.90	ug/L	90
26) 1,1-dichloroethene	6.59	96	1334	1.30	ug/L #	72
28) allyl chloride	7.16	76	611	1.01	ug/L #	72
29) acetonitrile	7.17	40	1505	23.94	ug/L #	50
30) iodomethane	6.88	142	2110	0.98	ug/L	93
32) carbon disulfide	7.02	76	4566	1.25	ug/L	90
33) methylene chloride	7.39	84	1572	1.37	ug/L	82
35) methyl tert butyl ether	7.76	73	3272	1.10	ug/L	92
36) trans-1,2-dichloroethene	7.81	96	1430	1.27	ug/L	94
37) di-isopropyl ether	8.45	45	4658	1.49	ug/L	89
39) 1,1-dichloroethane	8.48	63	2305	1.18	ug/L	96
40) chloroprene	8.60	53	1743	1.26	ug/L	84
41) acrylonitrile	7.78	53	1699	7.16	ug/L	97
43) ethyl tert-butyl ether	9.02	59	3771	1.12	ug/L	94
45) 2,2-dichloropropane	9.38	77	2087	1.10	ug/L	91
46) cis-1,2-dichloroethene	9.39	96	1539	1.27	ug/L	91
47) propionitrile	9.51	54	1206	12.27	ug/L	90
48) tert-Butyl Formate	9.90	59	783	0.93	ug/L #	54
49) bromochloromethane	9.79	128	473	0.84	ug/L	93
51) chloroform	9.86	83	2189	1.07	ug/L	96
54) freon 113	6.56	151	1719	1.79	ug/L #	75
55) methacrylonitrile	9.71	41	1195	2.71	ug/L	92
56) 1,1,1-trichloroethane	10.16	97	1804	0.99	ug/L	85
57) cyclohexane	10.23	84	1800	1.18	ug/L	96

(#)= qualifier out of range (m) = manual integration

X106944.D MX4516.M

Tue Sep 14 15:03:00 2010

MSX

Page 1

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106944.D

Vial: 2

Acq On : 14 Sep 2010 9:27 am

Operator: JUNTAEP

Sample : IC4516-1

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 09:51:13 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Mon Sep 13 16:49:33 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
59) iso-octane	10.70	57	5579	1.56	ug/L	92
62) epichlorohydrin	12.76	57	432	5.95	ug/L #	77
63) n-butyl alcohol	11.44	56	1572	69.27	ug/L	97
64) carbon tetrachloride	10.40	117	1685	0.93	ug/L	86
65) 1,1-dichloropropene	10.37	75	1786	1.10	ug/L	91
67) benzene	10.72	78	5475	1.19	ug/L	95
68) tert-amyl methyl ether	10.77	73	3527	1.10	ug/L	91
69) heptane	10.94	57	1082	1.35	ug/L	77
71) 1,2-dichloroethane	10.76	62	1329	0.88	ug/L	93
72) trichloroethene	11.65	130	1231	0.91	ug/L	90
76) 2-chloroethyl vinyl ether	12.76	63	2180	5.54	ug/L	89
77) methyl methacrylate	12.05	69	744	1.34	ug/L #	61
78) 1,2-dichloropropane	12.01	63	1364	1.18	ug/L	89
79) dibromomethane	12.23	93	515	0.77	ug/L	92
80) methylcyclohexane	11.92	83	2210	1.10	ug/L	90
81) bromodichloromethane	12.42	83	1483	0.90	ug/L	93
82) cis-1,3-dichloropropene	13.03	75	2068	1.01	ug/L	96
84) 4-methyl-2-pentanone	13.19	58	326	0.98	ug/L #	1
85) toluene	13.50	92	3872	1.26	ug/L	93
86) 3-methyl-1-butanol	13.24	55	1342	36.49	ug/L	84
87) trans-1,3-dichloropropene	13.81	75	1888	1.04	ug/L	92
88) ethyl methacrylate	13.80	69	1530	1.36	ug/L	88
89) 1,1,2-trichloroethane	14.08	83	865	1.04	ug/L	82
90) 2-hexanone	14.33	58	342	1.17	ug/L #	73
92) 3,3-Dimethyl-1-butanol	14.58	57	1116	16.10	ug/L #	97
93) tetrachloroethene	14.28	164	1076	0.89	ug/L	91
94) 1,3-dichloropropane	14.33	76	1624	1.05	ug/L	91
95) butyl acetate	14.45	56	783	1.36	ug/L #	74
96) dibromochloromethane	14.67	129	1224	1.03	ug/L	99
97) 1,2-dibromoethane	14.86	107	974	0.99	ug/L	96
99) chlorobenzene	15.47	112	3240	0.99	ug/L	96
100) 1,1,1,2-tetrachloroethane	15.56	131	1158	0.96	ug/L	97
101) ethylbenzene	15.55	91	6259	1.12	ug/L	98
102) m,p-xylene	15.70	106	4905	2.23	ug/L	85
103) o-xylene	16.24	106	2374	1.05	ug/L	97
104) styrene	16.26	104	4093	1.24	ug/L	94
105) bromoform	16.59	173	756	0.93	ug/L	89
107) isopropylbenzene	16.68	105	6357	1.16	ug/L	96
109) bromobenzene	17.14	156	1446	0.97	ug/L	94
110) 1,1,2,2-tetrachloroethane	17.08	83	1287	1.14	ug/L	90
111) trans-1,4-dichloro-2-buten	17.13	53	301	0.93	ug/L #	74
112) 1,2,3-trichloropropane	17.14	110	275	0.93	ug/L #	72
113) n-propylbenzene	17.17	91	7771	1.21	ug/L	94
115) 2-chlorotoluene	17.33	126	1504	1.07	ug/L	87
116) 4-chlorotoluene	17.44	91	4769	1.20	ug/L	96
117) 1,3,5-trimethylbenzene	17.35	105	5347	1.16	ug/L	94
118) tert-butylbenzene	17.72	119	4451	1.07	ug/L	94
119) pentachloroethane	17.81	167	737	0.90	ug/L	91
120) 1,2,4-trimethylbenzene	17.77	105	5702	1.24	ug/L	96

(#)=qualifier out of range (m)=manual integration

X106944.D MX4516.M

Tue Sep 14 15:03:00 2010

MSX

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106944.D  
 Acq On : 14 Sep 2010 9:27 am  
 Sample : IC4516-1  
 Misc : MS1864,vx4516,5.0,,,1  
 MS Integration Params: Rteint.p  
 Quant Time: Sep 14 09:51:13 2010

Vial: 2  
 Operator: JUNTAEP  
 Inst : MSX  
 Multiplr: 1.00

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Sep 13 16:49:33 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
122) sec-butylbenzene	17.95	105	6812	1.14	ug/L	95
123) 1,3-dichlorobenzene	18.15	146	2862	1.03	ug/L	94
124) p-isopropyltoluene	18.08	119	5589	1.11	ug/L	96
125) 1,4-dichlorobenzene	18.23	146	2711	1.04	ug/L	92
126) 1,2-dichlorobenzene	18.62	146	2556	1.00	ug/L	98
127) benzyl chloride	18.35	91	2637	1.16	ug/L	94
129) n-butylbenzene	18.50	92	2810	1.07	ug/L	87
131) 1,2-dibromo-3-chloropropan	19.37	75	315	1.35	ug/L #	39
132) 1,3,5-trichlorobenzene	19.54	180	2024	0.93	ug/L	97
133) hexachlorobutadiene	20.25	225	1110	1.03	ug/L	91
134) naphthalene	20.43	128	2483	0.87	ug/L	89
135) 1,2,4-trichlorobenzene	20.15	180	1368	0.79	ug/L	92
136) 1,2,3-trichlorobenzene	20.67	180	1113	0.79	ug/L	91
137) hexachloroethane	18.87	201	866	0.91	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X106944.D MX4516.M Tue Sep 14 15:03:00 2010 MSX

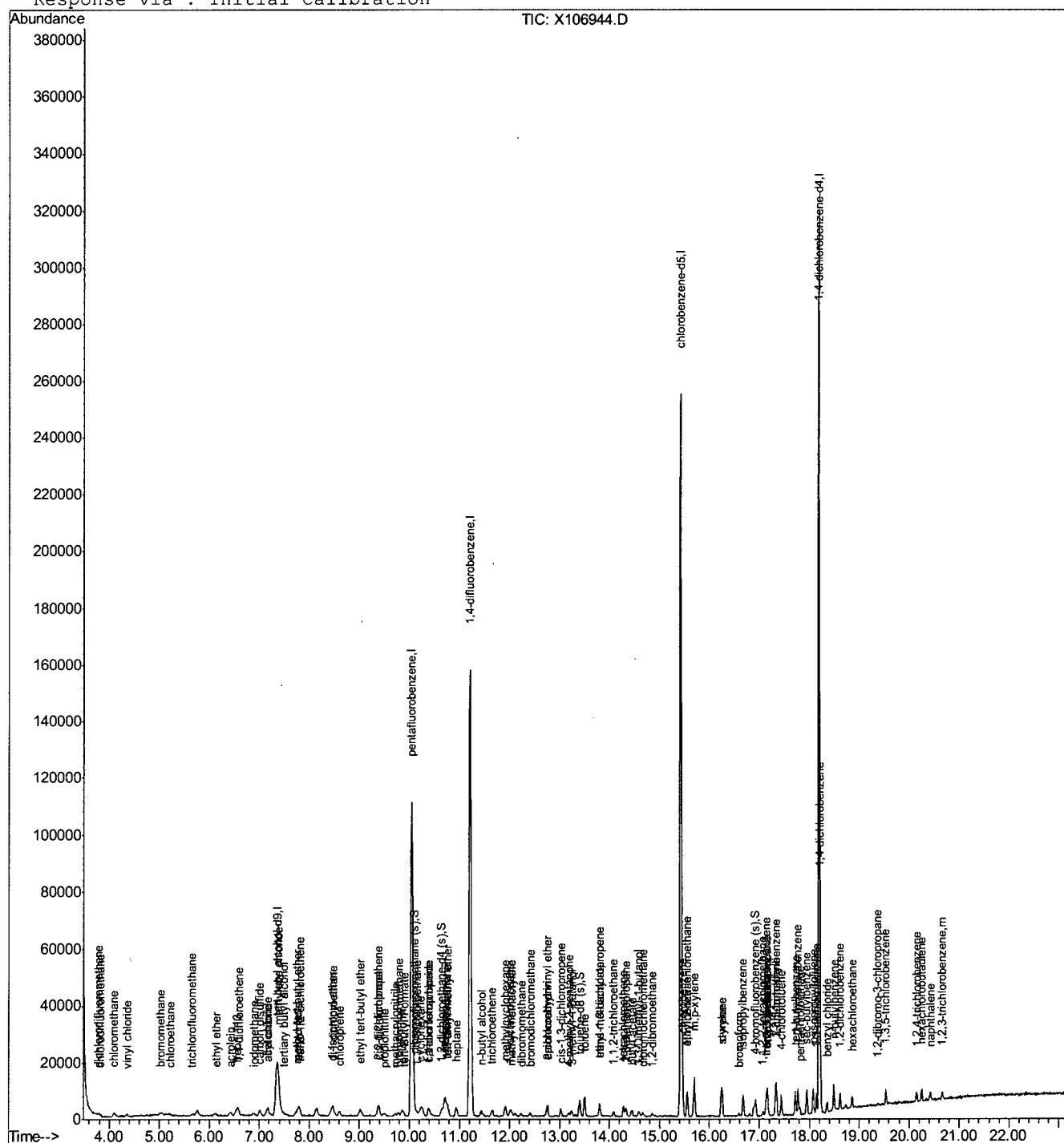
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106944.D  
Acq On : 14 Sep 2010 9:27 am  
Sample : IC4516-1  
Misc : MS1864,vx4516,5.0,,,,,1  
MS Integration Params: Rteint.p  
Quant Time: Sep 14 13:43 2010

Vial: 2  
Operator: JUNTAEP  
Inst : MSX  
Multiplr: 1.00

Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Tue Sep 14 14:59:55 2010  
Response via : Initial Calibration



6.6.12 6

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106945.D

Acq On : 14 Sep 2010 10:06 am

Sample : IC4516-5

Misc : MS1864,vx4516,5.0,,,,,1

MS Integration Params: Rteint.p

Quant Time: Sep 14 13:40:25 2010

Vial: 3

Operator: JUNTAEP

Inst : MSX

Multiplr: 1.00

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 13:40:22 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.35	65	58541	500.00	ug/L	-0.02
6) pentafluorobenzene	10.05	168	133535	50.00	ug/L	-0.01
60) 1,4-difluorobenzene	11.22	114	203623	50.00	ug/L	-0.01
91) chlorobenzene-d5	15.43	117	183259	50.00	ug/L	-0.01
106) 1,4-dichlorobenzene-d4	18.20	152	85845	50.00	ug/L	-0.01

## System Monitoring Compounds

52) dibromofluoromethane (s)	10.11	113	5981	5.43	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	10.86%#
53) 1,2-dichloroethane-d4 (s)	10.65	65	6569	5.05	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	10.10%#
83) toluene-d8 (s)	13.41	98	24772	5.45	ug/L	-0.01
Spiked Amount	50.000	Range	74 - 129	Recovery	=	10.90%#
108) 4-bromofluorobenzene (s)	16.92	95	9030	5.37	ug/L	-0.02
Spiked Amount	50.000	Range	62 - 138	Recovery	=	10.74%#

## Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.49	59	3144	21.53	ug/L	84
4) acrolein	6.42	56	10002	57.32	ug/L #	100
5) 1,4-dioxane	12.18	88	986	84.23	ug/L #	86
12) chlorodifluoromethane	3.81	51	5123	4.51	ug/L	98
13) dichlorodifluoromethane	3.79	85	7937	3.84	ug/L	92
16) chloromethane	4.10	50	11902	6.86	ug/L	95
17) vinyl chloride	4.36	62	9344	6.00	ug/L	94
19) bromomethane	5.04	94	5775	5.30	ug/L	98
20) chloroethane	5.22	64	4921	5.99	ug/L	96
21) trichlorofluoromethane	5.67	101	9153	4.10	ug/L	94
22) ethyl ether	6.13	74	2974	5.45	ug/L	86
26) 1,1-dichloroethene	6.58	96	5818	5.47	ug/L	97
27) acetone	6.66	58	530	8.88	ug/L	97
28) allyl chloride	7.17	76	3647	5.82	ug/L	92
29) acetoneitrile	7.16	40	5190	79.43	ug/L #	88
30) iodomethane	6.88	142	10627	4.77	ug/L	96
31) iso-butyl alcohol	10.38	74	547	49.75	ug/L	100
32) carbon disulfide	7.01	76	22333	5.89	ug/L	98
33) methylene chloride	7.40	84	6707	5.62	ug/L	89
34) methyl acetate	7.16	74	701	5.45	ug/L #	1
35) methyl tert butyl ether	7.76	73	16949	5.48	ug/L	95
36) trans-1,2-dichloroethene	7.81	96	6388	5.48	ug/L	94
37) di-isopropyl ether	8.45	45	21093	6.48	ug/L	94
38) 2-butanone	9.38	72	450	4.82	ug/L #	86
39) 1,1-dichloroethane	8.49	63	11560	5.69	ug/L	94
40) chloroprene	8.61	53	7817	5.45	ug/L	98
41) acrylonitrile	7.78	53	9125	36.99	ug/L	95
42) vinyl acetate	8.49	86	482	3.77	ug/L #	1
43) ethyl tert-butyl ether	9.02	59	18671	5.34	ug/L	94
44) ethyl acetate	9.38	70	547	5.73	ug/L #	1
45) 2,2-dichloropropane	9.38	77	9726	4.95	ug/L	88
46) cis-1,2-dichloroethene	9.39	96	6613	5.24	ug/L	92
47) propionitrile	9.50	54	7186	70.37	ug/L	90

(#)=qualifier out of range (m)=manual integration

X106945.D MX4516.M

Tue Sep 14 15:03:14 2010

MSX

Page 1

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106945.D  
 Acq On : 14 Sep 2010 10:06 am  
 Sample : IC4516-5  
 Misc : MS1864,vx4516,5.0,,,,,1  
 MS Integration Params: Rteint.p  
 Quant Time: Sep 14 13:40:25 2010

Vial: 3  
 Operator: JUNTAEP  
 Inst : MSX  
 Multiplr: 1.00

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Tue Sep 14 13:40:22 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) tert-Butyl Formate	9.89	59	4516	5.18	ug/L	91
49) bromochloromethane	9.78	128	2756	4.71	ug/L	86
50) tetrahydrofuran	9.82	42	2116	8.53	ug/L #	44
51) chloroform	9.86	83	10772	5.09	ug/L	99
54) freon 113	6.56	151	4511	4.52	ug/L	90
55) methacrylonitrile	9.71	41	3827	8.36	ug/L	91
56) 1,1,1-trichloroethane	10.15	97	8692	4.60	ug/L	93
57) cyclohexane	10.23	84	8707	5.49	ug/L	85
59) iso-octane	10.70	57	22917	6.15	ug/L	98
62) epichlorohydrin	12.76	57	2414	31.79	ug/L	90
63) n-butyl alcohol	11.44	56	7525	317.01	ug/L	92
64) carbon tetrachloride	10.40	117	8069	4.27	ug/L	98
65) 1,1-dichloropropene	10.38	75	8441	4.95	ug/L	95
66) hexane	8.16	86	858	3.85	ug/L #	82
67) benzene	10.72	78	25537	5.31	ug/L	98
68) tert-amyl methyl ether	10.77	73	16556	4.95	ug/L	95
69) heptane	10.94	57	4410	5.26	ug/L	94
70) isopropyl acetate	10.66	43	14874	6.86	ug/L	92
71) 1,2-dichloroethane	10.76	62	7221	4.59	ug/L	98
72) trichloroethene	11.66	130	6236	4.39	ug/L	96
76) 2-chloroethyl vinyl ether	12.75	63	11120	27.02	ug/L	96
77) methyl methacrylate	12.05	69	3559	6.12	ug/L	96
78) 1,2-dichloropropane	12.02	63	6904	5.71	ug/L	98
79) dibromomethane	12.23	93	3454	4.92	ug/L	86
80) methylcyclohexane	11.92	83	9605	4.58	ug/L	94
81) bromodichloromethane	12.42	83	8367	4.85	ug/L	95
82) cis-1,3-dichloropropene	13.04	75	10991	5.14	ug/L	96
84) 4-methyl-2-pentanone	13.18	58	2109	6.04	ug/L #	64
85) toluene	13.51	92	16805	5.22	ug/L	95
86) 3-methyl-1-butanol	13.24	55	5042	131.08	ug/L	87
87) trans-1,3-dichloropropene	13.80	75	9454	4.97	ug/L	99
88) ethyl methacrylate	13.81	69	7229	6.12	ug/L	97
89) 1,1,2-trichloroethane	14.09	83	4461	5.15	ug/L	96
90) 2-hexanone	14.33	58	2026	6.61	ug/L	92
92) 3,3-Dimethyl-1-butanol	14.59	57	4632	63.90	ug/L #	95
93) tetrachloroethene	14.29	164	5462	4.33	ug/L	91
94) 1,3-dichloropropane	14.33	76	8628	5.33	ug/L	94
95) butyl acetate	14.45	56	3693	6.12	ug/L	98
96) dibromochloromethane	14.67	129	6150	4.93	ug/L	92
97) 1,2-dibromoethane	14.86	107	5119	4.99	ug/L	94
99) chlorobenzene	15.47	112	16190	4.73	ug/L	98
100) 1,1,1,2-tetrachloroethane	15.56	131	5896	4.68	ug/L	95
101) ethylbenzene	15.55	91	29534	5.07	ug/L	97
102) m,p-xylene	15.70	106	22565	9.82	ug/L	82
103) o-xylene	16.24	106	11503	4.85	ug/L	94
104) styrene	16.26	104	19111	5.52	ug/L	97
105) bromoform	16.59	173	3972	4.69	ug/L	97
107) isopropylbenzene	16.68	105	30184	5.39	ug/L	97
109) bromobenzene	17.14	156	7348	4.84	ug/L	86

(#) = qualifier out of range (m) = manual integration

X106945.D MX4516.M Tue Sep 14 15:03:14 2010 MSX

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106945.D

Vial: 3

Acq On : 14 Sep 2010 10:06 am

Operator: JUNTAEP

Sample : IC4516-5

Inst : MSX

Misc : MS1864,vx4516,5.0,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 13:40:25 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 13:40:22 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
110) 1,1,2,2-tetrachloroethane	17.07	83	6522	5.66	ug/L	97
111) trans-1,4-dichloro-2-buten	17.13	53	1884	5.73	ug/L	94
112) 1,2,3-trichloropropane	17.15	110	1522	5.09	ug/L #	79
113) n-propylbenzene	17.17	91	35450	5.43	ug/L	95
115) 2-chlorotoluene	17.32	126	6849	4.78	ug/L #	84
116) 4-chlorotoluene	17.44	91	21644	5.38	ug/L	94
117) 1,3,5-trimethylbenzene	17.35	105	24238	5.19	ug/L	95
118) tert-butylbenzene	17.72	119	21148	5.01	ug/L	96
119) pentachloroethane	17.82	167	4016	4.80	ug/L	98
120) 1,2,4-trimethylbenzene	17.77	105	24216	5.19	ug/L	95
122) sec-butylbenzene	17.95	105	31270	5.16	ug/L	95
123) 1,3-dichlorobenzene	18.15	146	13458	4.78	ug/L	97
124) p-isopropyltoluene	18.08	119	25449	4.99	ug/L	97
125) 1,4-dichlorobenzene	18.23	146	12276	4.63	ug/L	98
126) 1,2-dichlorobenzene	18.62	146	11917	4.60	ug/L	98
127) benzyl chloride	18.35	91	11574	4.99	ug/L	97
129) n-butylbenzene	18.50	92	13667	5.11	ug/L	92
131) 1,2-dibromo-3-chloropropan	19.37	75	1177	4.98	ug/L	91
132) 1,3,5-trichlorobenzene	19.54	180	9383	4.24	ug/L	95
133) hexachlorobutadiene	20.25	225	4724	4.32	ug/L	98
134) naphthalene	20.43	128	13019	4.46	ug/L	99
135) 1,2,4-trichlorobenzene	20.15	180	7083	4.03	ug/L	97
136) 1,2,3-trichlorobenzene	20.67	180	5771	4.03	ug/L	99
137) hexachloroethane	18.86	201	4201	4.36	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X106945.D MX4516.M Tue Sep 14 15:03:15 2010 MSX

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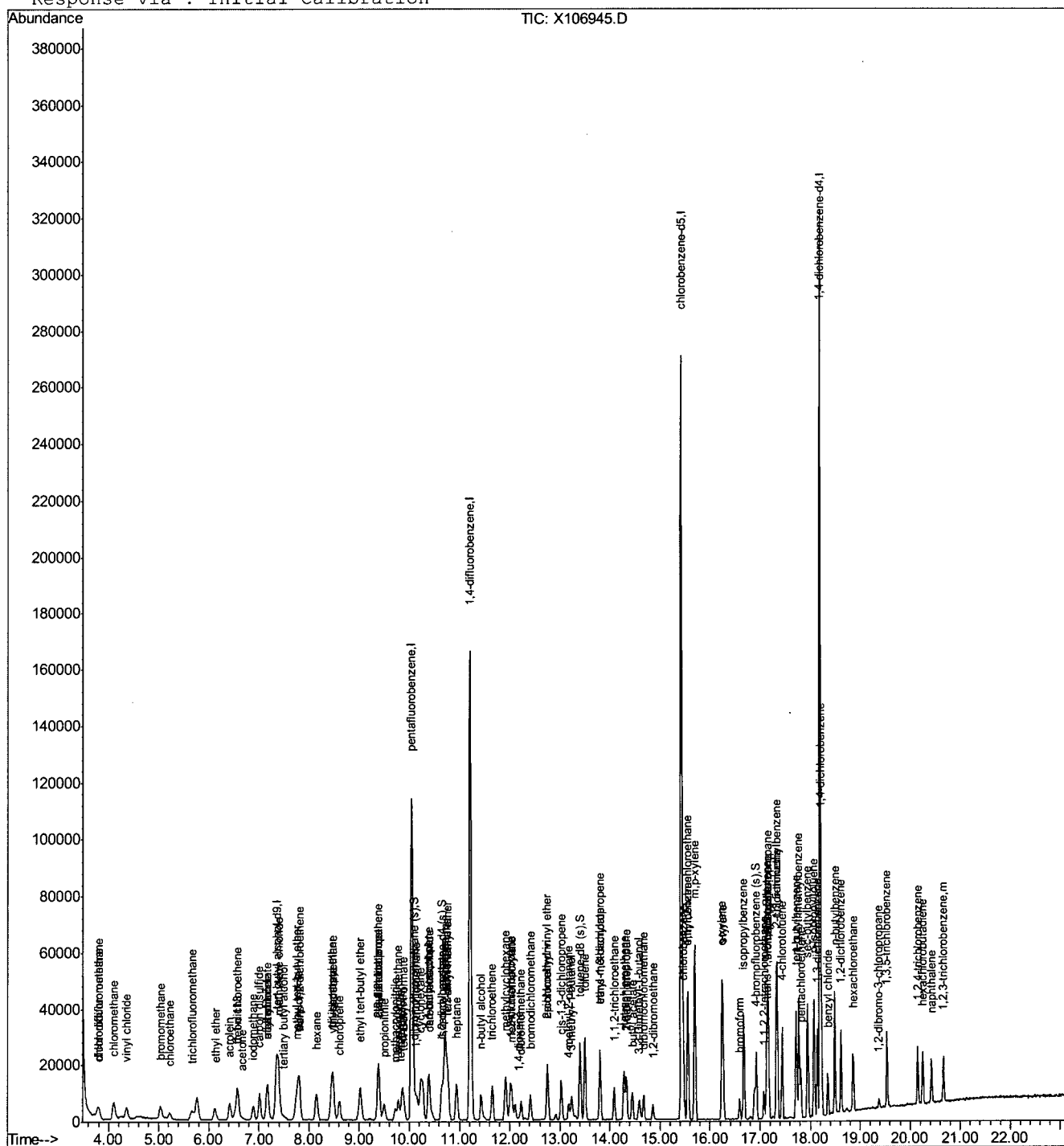
## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106945.D  
Acq On : 14 Sep 2010 10:06 am  
Sample : IC4516-5  
Misc : MS1864,vx4516,5.0,,,,,1  
MS Integration Params: Rteint.p  
Quant Time: Sep 14 13:41 2010

Vial: 3  
Operator: JUNTAEP  
Inst : MSX  
Multiplr: 1.00

Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Tue Sep 14 14:59:55 2010  
Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106946.D

Vial: 4

Acq On : 14 Sep 2010 10:45 am

Operator: JUNTAEP

Sample : IC4516-2

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 11:08:16 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Mon Sep 13 16:49:33 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.34	65	60943	500.00	ug/L	-0.03
6) pentafluorobenzene	10.05	168	134288	50.00	ug/L	-0.01
60) 1,4-difluorobenzene	11.22	114	205376	50.00	ug/L	-0.02
91) chlorobenzene-d5	15.43	117	183290	50.00	ug/L	-0.01
106) 1,4-dichlorobenzene-d4	18.20	152	87185	50.00	ug/L	-0.01

## System Monitoring Compounds

52) dibromofluoromethane (s)	10.11	113	2478	2.24	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	4.48%#
53) 1,2-dichloroethane-d4 (s)	10.64	65	2856	2.18	ug/L	-0.02
Spiked Amount	50.000	Range	65 - 132	Recovery	=	4.36%#
83) toluene-d8 (s)	13.41	98	9678	2.11	ug/L	-0.01
Spiked Amount	50.000	Range	74 - 129	Recovery	=	4.22%#
108) 4-bromofluorobenzene (s)	16.93	95	3877	2.27	ug/L	-0.01
Spiked Amount	50.000	Range	62 - 138	Recovery	=	4.54%#

## Target Compounds

					Qvalue	
2) tertiary butyl alcohol	7.49	59	1317	8.66	ug/L	55
4) acrolein	6.42	56	4070	22.41	ug/L	# 96
5) 1,4-dioxane	12.18	88	275	22.57	ug/L	# 27
12) chlorodifluoromethane	3.80	51	2021	1.77	ug/L	96
13) dichlorodifluoromethane	3.78	85	3460	1.66	ug/L	94
16) chloromethane	4.09	50	5433	3.12	ug/L	95
17) vinyl chloride	4.36	62	4125	2.63	ug/L	93
19) bromomethane	5.02	94	2565	2.34	ug/L	92
20) chloroethane	5.22	64	2207	2.67	ug/L	96
21) trichlorofluoromethane	5.66	101	4259	1.90	ug/L	96
22) ethyl ether	6.12	74	1154	2.10	ug/L	89
26) 1,1-dichloroethene	6.58	96	2137	2.00	ug/L	86
28) allyl chloride	7.16	76	1385	2.20	ug/L	# 82
29) acetonitrile	7.16	40	2473	37.64	ug/L	# 78
30) iodomethane	6.87	142	4012	1.79	ug/L	97
32) carbon disulfide	7.00	76	8314	2.18	ug/L	93
33) methylene chloride	7.39	84	2747	2.29	ug/L	83
35) methyl tert butyl ether	7.75	73	6918	2.22	ug/L	93
36) trans-1,2-dichloroethene	7.80	96	2553	2.18	ug/L	96
37) di-isopropyl ether	8.45	45	8459	2.58	ug/L	93
39) 1,1-dichloroethane	8.48	63	4622	2.26	ug/L	95
40) chloroprene	8.60	53	2836	1.97	ug/L	94
41) acrylonitrile	7.78	53	3710	14.96	ug/L	93
43) ethyl tert-butyl ether	9.01	59	7544	2.14	ug/L	93
45) 2,2-dichloropropane	9.39	77	3776	1.91	ug/L	83
46) cis-1,2-dichloroethene	9.39	96	2679	2.11	ug/L	95
47) propionitrile	9.50	54	3091	30.10	ug/L	92
48) tert-Butyl Formate	9.89	59	1723	1.96	ug/L	# 90
49) bromochloromethane	9.78	128	1190	2.02	ug/L	# 83
50) tetrahydrofuran	9.82	42	838	3.36	ug/L	# 36
51) chloroform	9.86	83	4336	2.04	ug/L	98
54) freon 113	6.56	151	3004	2.99	ug/L	95
55) methacrylonitrile	9.72	41	1632	3.54	ug/L	95

(# ) = qualifier out of range (m) = manual integration

X106946.D MX4516.M

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MSX

Page 1

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106946.D

Acq On : 14 Sep 2010 10:45 am

Sample : IC4516-2

Misc : MS1864,vx4516,5.0,,,,,1

MS Integration Params: Rteint.p

Quant Time: Sep 14 11:08:16 2010

Vial: 4

Operator: JUNTAEP

Inst : MSX

Multiplr: 1.00

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Mon Sep 13 16:49:33 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56) 1,1,1-trichloroethane	10.15	97	3435	1.81	ug/L	91
57) cyclohexane	10.23	84	3232	2.03	ug/L	94
59) iso-octane	10.70	57	8329	2.22	ug/L	96
62) epichlorohydrin	12.76	57	847	11.06	ug/L	94
63) n-butyl alcohol	11.43	56	3218	134.41	ug/L	94
64) carbon tetrachloride	10.40	117	2959	1.55	ug/L	98
65) 1,1-dichloropropene	10.39	75	3233	1.88	ug/L	88
66) hexane	8.16	86	312	1.39	ug/L #	32
67) benzene	10.71	78	10119	2.09	ug/L	96
68) tert-amyl methyl ether	10.77	73	6838	2.03	ug/L	97
69) heptane	10.94	57	1617	1.91	ug/L	93
70) isopropyl acetate	10.66	43	6339	2.90	ug/L	88
71) 1,2-dichloroethane	10.76	62	3042	1.92	ug/L	93
72) trichloroethene	11.65	130	2366	1.65	ug/L	89
76) 2-chloroethyl vinyl ether	12.76	63	4472	10.77	ug/L	95
77) methyl methacrylate	12.05	69	1463	2.50	ug/L	85
78) 1,2-dichloropropane	12.02	63	2643	2.17	ug/L	97
79) dibromomethane	12.23	93	1321	1.86	ug/L	84
80) methylcyclohexane	11.92	83	3379	1.60	ug/L	91
81) bromodichloromethane	12.42	83	3389	1.95	ug/L	91
82) cis-1,3-dichloropropene	13.03	75	4451	2.06	ug/L	92
84) 4-methyl-2-pentanone	13.18	58	838	2.38	ug/L #	1
85) toluene	13.50	92	6884	2.12	ug/L	92
86) 3-methyl-1-butanol	13.24	55	2205	56.83	ug/L	92
87) trans-1,3-dichloropropene	13.80	75	4049	2.11	ug/L	93
88) ethyl methacrylate	13.80	69	2980	2.50	ug/L	92
89) 1,1,2-trichloroethane	14.09	83	1805	2.07	ug/L	100
90) 2-hexanone	14.33	58	868	2.81	ug/L	79
92) 3,3-Dimethyl-1-butanol	14.59	57	2240	30.90	ug/L #	94
93) tetrachloroethene	14.29	164	1969	1.56	ug/L	97
94) 1,3-dichloropropane	14.32	76	3562	2.20	ug/L	91
95) butyl acetate	14.44	56	1478	2.45	ug/L	96
96) dibromochloromethane	14.67	129	2488	2.00	ug/L	96
97) 1,2-dibromoethane	14.86	107	2055	2.00	ug/L	90
99) chlorobenzene	15.47	112	6323	1.85	ug/L	96
100) 1,1,1,2-tetrachloroethane	15.56	131	2312	1.83	ug/L	96
101) ethylbenzene	15.55	91	11454	1.97	ug/L	95
102) m,p-xylene	15.70	106	8875	3.86	ug/L	90
103) o-xylene	16.24	106	4575	1.93	ug/L	87
104) styrene	16.26	104	7977	2.30	ug/L	98
105) bromoform	16.59	173	1614	1.91	ug/L	97
107) isopropylbenzene	16.68	105	11500	2.02	ug/L	95
109) bromobenzene	17.14	156	2890	1.87	ug/L	88
110) 1,1,2,2-tetrachloroethane	17.08	83	2830	2.42	ug/L	92
111) trans-1,4-dichloro-2-buten	17.12	53	750	2.24	ug/L #	79
112) 1,2,3-trichloropropane	17.15	110	593	1.95	ug/L #	68
113) n-propylbenzene	17.17	91	14161	2.14	ug/L	95
115) 2-chlorotoluene	17.33	126	2790	1.92	ug/L	99
116) 4-chlorotoluene	17.44	91	8685	2.12	ug/L	95

(#)=qualifier out of range (m)=manual integration

X106946.D MX4516.M

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MSX

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106946.D

Vial: 4

Acq On : 14 Sep 2010 10:45 am

Operator: JUNTAEP

Sample : IC4516-2

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 11:08:16 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Mon Sep 13 16:49:33 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
117) 1,3,5-trimethylbenzene	17.35	105	9746	2.06	ug/L	96
118) tert-butylbenzene	17.72	119	8287	1.93	ug/L	97
119) pentachloroethane	17.81	167	1605	1.89	ug/L	97
120) 1,2,4-trimethylbenzene	17.77	105	10129	2.14	ug/L	93
122) sec-butylbenzene	17.95	105	12219	1.98	ug/L	94
123) 1,3-dichlorobenzene	18.15	146	5460	1.91	ug/L	98
124) p-isopropyltoluene	18.08	119	10029	1.94	ug/L	97
125) 1,4-dichlorobenzene	18.23	146	5128	1.91	ug/L	97
126) 1,2-dichlorobenzene	18.62	146	4803	1.83	ug/L	91
127) benzyl chloride	18.35	91	4946	2.10	ug/L	97
129) n-butylbenzene	18.50	92	5291	1.95	ug/L	92
131) 1,2-dibromo-3-chloropropan	19.37	75	566	2.36	ug/L #	74
132) 1,3,5-trichlorobenzene	19.54	180	3778	1.68	ug/L	94
133) hexachlorobutadiene	20.25	225	1799	1.62	ug/L	93
134) naphthalene	20.43	128	5400	1.82	ug/L	94
135) 1,2,4-trichlorobenzene	20.15	180	2948	1.65	ug/L	98
136) 1,2,3-trichlorobenzene	20.67	180	2326	1.60	ug/L	98
137) hexachloroethane	18.86	201	1557	1.59	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X106946.D MX4516.M Tue Sep 14 15:03:30 2010 MSX

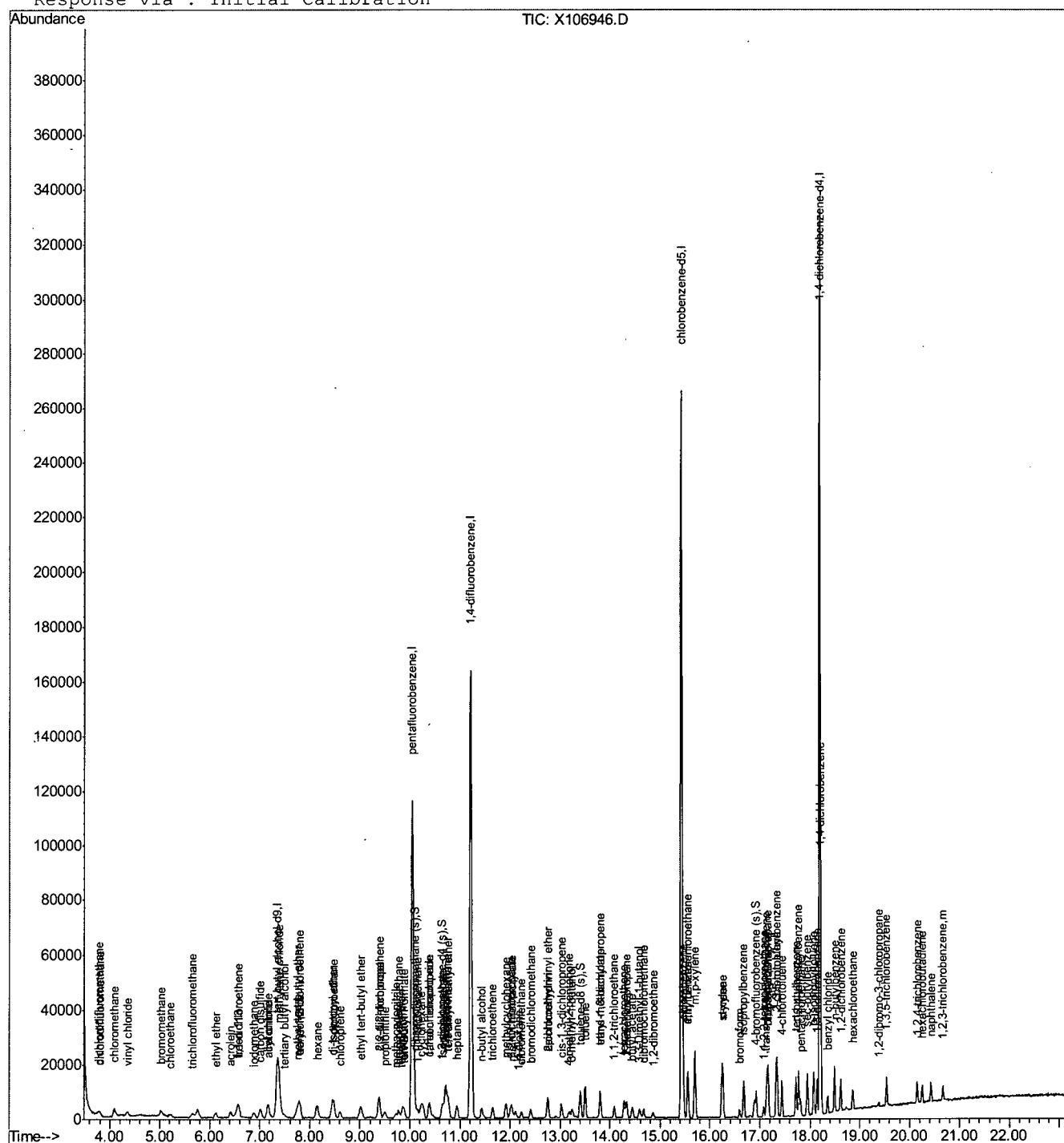
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106946.D  
Acq On : 14 Sep 2010 10:45 am  
Sample : IC4516-2  
Misc : MS1864,vx4516,5.0,,,,,1  
MS Integration Params: Rteint.p  
Quant Time: Sep 14 13:38 2010

Vial: 4  
Operator: JUNTAEP  
Inst : MSX  
Multiplr: 1.00

Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Tue Sep 14 14:59:55 2010  
Response via : Initial Calibration



X106946.D    MX4516.M

Tue Sep 14 15:03:31 2010

MSX

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## 6.6.14

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106947.D

Vial: 5

Acq On : 14 Sep 2010 11:16 am

Operator: JUNTAEP

Sample : IC4516-0.5

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 11:39:18 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Mon Sep 13 16:49:33 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.37	65	60356	500.00	ug/L	0.00
6) pentafluorobenzene	10.06	168	133621	50.00	ug/L	0.00
60) 1,4-difluorobenzene	11.22	114	204923	50.00	ug/L	-0.01
91) chlorobenzene-d5	15.43	117	183142	50.00	ug/L	-0.01
106) 1,4-dichlorobenzene-d4	18.21	152	87766	50.00	ug/L	0.00

## System Monitoring Compounds

52) dibromofluoromethane (s)	10.11	113	1078	0.98	ug/L	-0.02
Spiked Amount	50.000	Range 67 - 127	Recovery	=	1.96%#	
53) 1,2-dichloroethane-d4 (s)	10.65	65	1188	0.91	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	=	1.82%#	
83) toluene-d8 (s)	13.41	98	3132	0.68	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	1.36%#	
108) 4-bromofluorobenzene (s)	16.93	95	1452	0.84	ug/L	-0.01
Spiked Amount	50.000	Range 62 - 138	Recovery	=	1.68%#	

## Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.49	59	104	0.69	ug/L	65
4) acrolein	6.42	56	871	4.84	ug/L #	85
12) chlorodifluoromethane	3.80	51	301	0.26	ug/L	57
16) chloromethane	4.10	50	1231	0.71	ug/L	92
17) vinyl chloride	4.36	62	798	0.51	ug/L	85
19) bromomethane	5.03	94	556	0.51	ug/L	69
20) chloroethane	5.21	64	289	0.35	ug/L #	45
21) trichlorofluoromethane	5.67	101	551	0.25	ug/L	95
26) 1,1-dichloroethene	6.59	96	774	0.73	ug/L #	43
29) acetonitrile	7.17	40	931	14.24	ug/L #	20
30) iodomethane	6.89	142	855	0.38	ug/L	85
32) carbon disulfide	7.02	76	2215	0.58	ug/L	71
33) methylene chloride	7.39	84	914	0.77	ug/L	78
35) methyl tert butyl ether	7.76	73	1909	0.62	ug/L	96
36) trans-1,2-dichloroethene	7.82	96	735	0.63	ug/L #	67
37) di-isopropyl ether	8.45	45	2428	0.75	ug/L	80
39) 1,1-dichloroethane	8.49	63	1132	0.56	ug/L	86
40) chloroprene	8.62	53	663	0.46	ug/L #	35
41) acrylonitrile	7.79	53	899	3.64	ug/L #	61
43) ethyl tert-butyl ether	9.03	59	1926	0.55	ug/L	92
46) cis-1,2-dichloroethene	9.40	96	789	0.63	ug/L	80
47) propionitrile	9.51	54	736	7.20	ug/L	86
49) bromochloromethane	9.79	128	102	0.17	ug/L #	31
51) chloroform	9.87	83	1016	0.48	ug/L	88
54) freon 113	6.56	151	1045	1.05	ug/L	96
56) 1,1,1-trichloroethane	10.16	97	812	0.43	ug/L #	50
57) cyclohexane	10.24	84	767	0.48	ug/L	90
59) iso-octane	10.71	57	2284	0.61	ug/L	84
63) n-butyl alcohol	11.45	56	795	33.28	ug/L	88
64) carbon tetrachloride	10.41	117	688	0.36	ug/L	89
65) 1,1-dichloropropene	10.38	75	843	0.49	ug/L	92
67) benzene	10.72	78	2752	0.57	ug/L	98
68) tert-amyl methyl ether	10.78	73	1974	0.59	ug/L	81

(#)=qualifier out of range (m)=manual integration

X106947.D MX4516.M

Tue Sep 14 15:03:41 2010

MSX

Page 1

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106947.D  
 Acq On : 14 Sep 2010 11:16 am  
 Sample : IC4516-0.5  
 Misc : MS1864,vx4516,5.0,,,,,1  
 MS Integration Params: Rteint.p  
 Quant Time: Sep 14 11:39:18 2010

Vial: 5  
 Operator: JUNTAEP  
 Inst : MSX  
 Multiplr: 1.00

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Sep 13 16:49:33 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
69) heptane	10.95	57	369	0.44	ug/L #	65
71) 1,2-dichloroethane	10.77	62	668	0.42	ug/L #	49
72) trichloroethene	11.66	130	439	0.31	ug/L	91
76) 2-chloroethyl vinyl ether	12.76	63	1079	2.60	ug/L	75
77) methyl methacrylate	12.05	69	277	0.47	ug/L #	16
78) 1,2-dichloropropane	12.02	63	596	0.49	ug/L	84
79) dibromomethane	12.24	93	240	0.34	ug/L	91
80) methylcyclohexane	11.93	83	945	0.45	ug/L	87
81) bromodichloromethane	12.42	83	823	0.47	ug/L	84
82) cis-1,3-dichloropropene	13.03	75	1161	0.54	ug/L	89
85) toluene	13.51	92	2254	0.70	ug/L	96
86) 3-methyl-1-butanol	13.26	55	518	13.38	ug/L	84
87) trans-1,3-dichloropropene	13.81	75	1041	0.54	ug/L	73
88) ethyl methacrylate	13.81	69	805	0.68	ug/L	84
89) 1,1,2-trichloroethane	14.09	83	417	0.48	ug/L	80
92) 3,3-Dimethyl-1-butanol	14.59	57	664	9.17	ug/L #	86
93) tetrachloroethene	14.28	164	495	0.39	ug/L	81
94) 1,3-dichloropropane	14.32	76	928	0.57	ug/L	99
95) butyl acetate	14.45	56	409	0.68	ug/L	93
96) dibromochloromethane	14.68	129	566	0.45	ug/L	76
97) 1,2-dibromoethane	14.86	107	474	0.46	ug/L	77
99) chlorobenzene	15.47	112	1604	0.47	ug/L	91
100) 1,1,1,2-tetrachloroethane	15.56	131	525	0.42	ug/L	83
101) ethylbenzene	15.56	91	3019	0.52	ug/L	97
102) m,p-xylene	15.70	106	2396	1.04	ug/L	95
103) o-xylene	16.25	106	1252	0.53	ug/L	99
104) styrene	16.26	104	2441	0.71	ug/L	94
105) bromoform	16.60	173	357	0.42	ug/L #	36
107) isopropylbenzene	16.68	105	3089	0.54	ug/L	97
109) bromobenzene	17.15	156	765	0.49	ug/L	88
110) 1,1,2,2-tetrachloroethane	17.08	83	688	0.58	ug/L	88
113) n-propylbenzene	17.17	91	3809	0.57	ug/L	94
115) 2-chlorotoluene	17.33	126	663	0.45	ug/L	97
116) 4-chlorotoluene	17.44	91	2582	0.63	ug/L	92
117) 1,3,5-trimethylbenzene	17.35	105	2646	0.55	ug/L	97
118) tert-butylbenzene	17.73	119	2131	0.49	ug/L	96
119) pentachloroethane	17.82	167	352	0.41	ug/L #	70
120) 1,2,4-trimethylbenzene	17.77	105	2938	0.62	ug/L	93
122) sec-butylbenzene	17.95	105	3315	0.53	ug/L	92
123) 1,3-dichlorobenzene	18.15	146	1542	0.54	ug/L	91
124) p-isopropyltoluene	18.08	119	2748	0.53	ug/L	97
125) 1,4-dichlorobenzene	18.23	146	1465	0.54	ug/L	92
126) 1,2-dichlorobenzene	18.62	146	1358	0.51	ug/L	96
127) benzyl chloride	18.35	91	1466	0.62	ug/L #	86
129) n-butylbenzene	18.50	92	1328	0.49	ug/L	88
132) 1,3,5-trichlorobenzene	19.54	180	1036	0.46	ug/L	91
133) hexachlorobutadiene	20.26	225	462	0.41	ug/L	97
134) naphthalene	20.43	128	1484	0.50	ug/L	78
135) 1,2,4-trichlorobenzene	20.15	180	773	0.43	ug/L	90

(#) = qualifier out of range (m) = manual integration

X106947.D MX4516.M Tue Sep 14 15:03:41 2010 MSX

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106947.D Vial: 5  
Acq On : 14 Sep 2010 11:16 am Operator: JUNTAEP  
Sample : IC4516-0.5 Inst : MSX  
Misc : MS1864,vx4516,5.0,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Sep 14 11:39:18 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Sep 13 16:49:33 2010  
Response via : Initial Calibration  
DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
136) 1,2,3-trichlorobenzene	20.67	180	625	0.43	ug/L #	79
137) hexachloroethane	18.86	201	351	0.36	ug/L	76

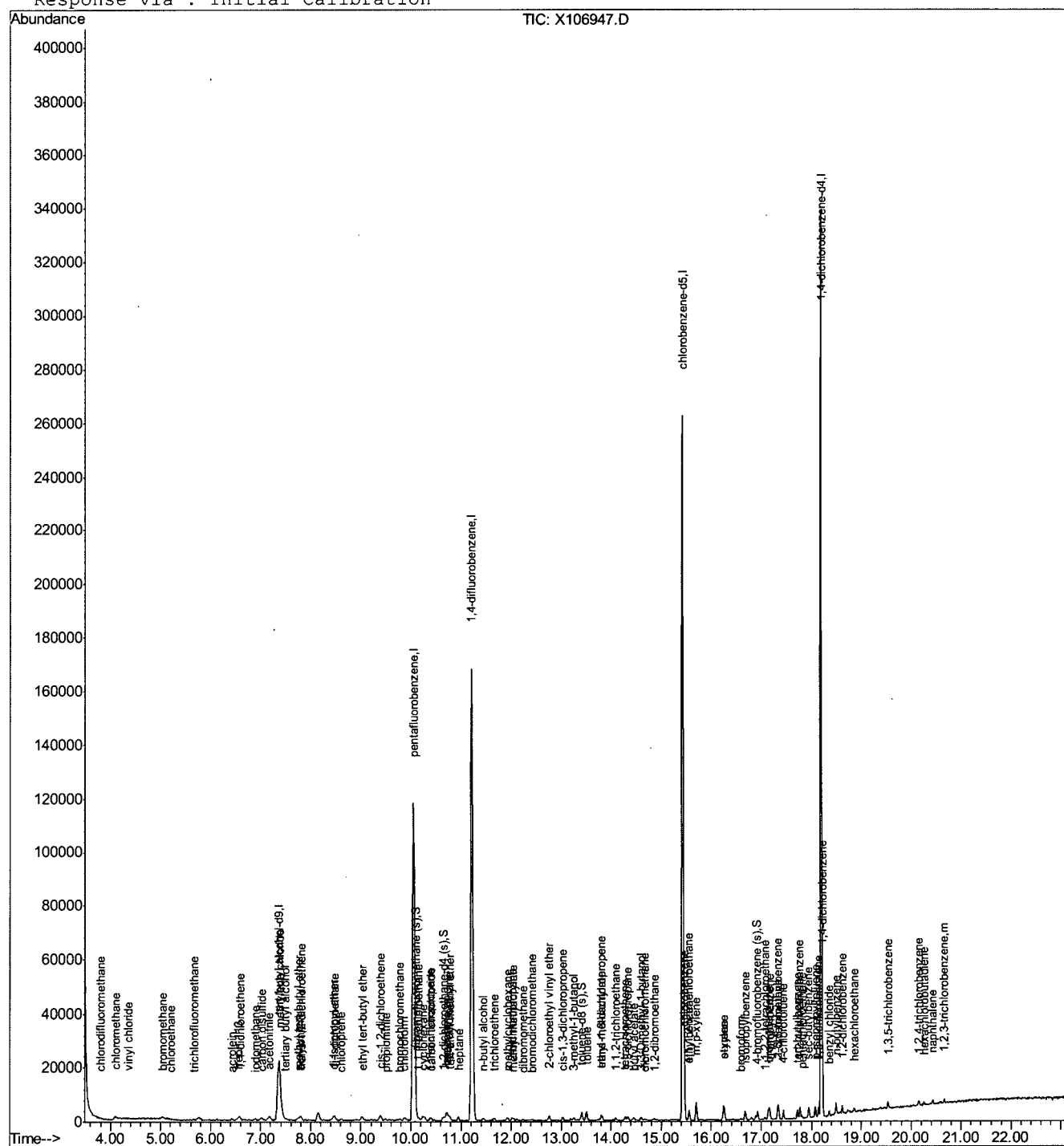
-----  
(#) = qualifier out of range (m) = manual integration (+) = signals summed  
X106947.D MX4516.M Tue Sep 14 15:03:41 2010 MSX

(QT Reviewed)

Vial: 5  
Operator: JUNTAEP  
Inst : MSX  
Multiplr: 1.00

Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Tue Sep 14 14:59:55 2010  
Response via : Initial Calibration



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6.6.15



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106948.D

Vial: 6

Acq On : 14 Sep 2010 11:45 am

Operator: JUNTAEP

Sample : IC4516-10

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 13:31:47 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 13:31:44 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.37	65	51584	500.00	ug/L	0.00
6) pentafluorobenzene	10.06	168	128897	50.00	ug/L	0.00
60) 1,4-difluorobenzene	11.23	114	196020	50.00	ug/L	0.00
91) chlorobenzene-d5	15.43	117	177758	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	18.21	152	83996	50.00	ug/L	0.00

## System Monitoring Compounds

52) dibromofluoromethane (s)	10.12	113	11965	9.10	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	18.20%#
53) 1,2-dichloroethane-d4 (s)	10.65	65	13443	9.30	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	18.60%#
83) toluene-d8 (s)	13.41	98	49895	10.30	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	20.60%#
108) 4-bromofluorobenzene (s)	16.93	95	18257	9.37	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	18.74%#

## Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.49	59	6401	52.87	ug/L	92
4) acrolein	6.42	56	21099	55.54	ug/L	# 99
5) 1,4-dioxane	12.19	88	2293	294.86	ug/L	# 96
12) chlorodifluoromethane	3.80	51	12865	11.93	ug/L	98
13) dichlorodifluoromethane	3.78	85	18503	12.28	ug/L	100
16) chloromethane	4.10	50	26780	10.81	ug/L	97
17) vinyl chloride	4.36	62	20791	11.03	ug/L	98
18) acetaldehyde	4.41	44	121	0.10	ug/L	# 1
19) bromomethane	5.04	94	12858	10.99	ug/L	98
20) chloroethane	5.23	64	11229	11.73	ug/L	97
21) trichlorofluoromethane	5.67	101	20892	11.55	ug/L	97
22) ethyl ether	6.13	74	6945	11.91	ug/L	89
26) 1,1-dichloroethene	6.58	96	13134	10.95	ug/L	99
27) acetone	6.66	58	1537	14.50	ug/L	92
28) allyl chloride	7.18	76	8673	13.12	ug/L	# 91
29) acetonitrile	7.17	40	10361	29.54	ug/L	# 67
30) iodomethane	6.89	142	24414	11.96	ug/L	97
31) iso-butyl alcohol	10.39	74	1444	123.53	ug/L	100
32) carbon disulfide	7.02	76	51041	11.51	ug/L	99
33) methylene chloride	7.40	84	14544	10.39	ug/L	93
34) methyl acetate	7.16	74	1592	10.62	ug/L	# 86
35) methyl tert butyl ether	7.75	73	36959	11.02	ug/L	100
36) trans-1,2-dichloroethene	7.82	96	14408	11.15	ug/L	92
37) di-isopropyl ether	8.45	45	48923	11.10	ug/L	97
38) 2-butanone	9.36	72	1473	13.23	ug/L	69
39) 1,1-dichloroethane	8.49	63	27232	11.88	ug/L	97
40) chloroprene	8.61	53	18375	11.70	ug/L	93
41) acrylonitrile	7.79	53	18501	34.09	ug/L	99
42) vinyl acetate	8.47	86	1331	11.46	ug/L	98
43) ethyl tert-butyl ether	9.02	59	43947	11.48	ug/L	99
44) ethyl acetate	9.38	70	1185	11.64	ug/L	# 23
45) 2,2-dichloropropane	9.39	77	22459	12.18	ug/L	100
46) cis-1,2-dichloroethene	9.40	96	15281	11.10	ug/L	98

(#)=qualifier out of range (m)=manual integration

X106948.D MX4516.M

Tue Sep 14 15:03:52 2010

MSX

Page 1

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106948.D  
 Acq On : 14 Sep 2010 11:45 am  
 Sample : IC4516-10  
 Misc : MS1864,vx4516,5.0,,,,,1  
 MS Integration Params: Rteint.p  
 Quant Time: Sep 14 13:31:47 2010

Vial: 6  
 Operator: JUNTAEP  
 Inst : MSX  
 Multiplr: 1.00

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Tue Sep 14 13:31:44 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47) propionitrile	9.50	54	14406	45.32	ug/L	93
48) tert-Butyl Formate	9.89	59	11256	13.39	ug/L	99
49) bromochloromethane	9.78	128	6629	13.05	ug/L	96
50) tetrahydrofuran	9.84	42	4189	10.65	ug/L	94
51) chloroform	9.87	83	24179	11.52	ug/L	99
54) freon 113	6.56	151	9991	7.97	ug/L	91
55) methacrylonitrile	9.72	41	7536	9.62	ug/L	98
56) 1,1,1-trichloroethane	10.16	97	20310	11.72	ug/L	99
57) cyclohexane	10.23	84	20236	11.87	ug/L	93
59) iso-octane	10.71	57	54449	11.50	ug/L	99
62) epichlorohydrin	12.76	57	5001	43.72	ug/L	94
63) n-butyl alcohol	11.43	56	15964	65.63	ug/L	98
64) carbon tetrachloride	10.40	117	18046	11.79	ug/L	99
65) 1,1-dichloropropene	10.39	75	19568	11.75	ug/L	99
66) hexane	8.15	86	2496	12.49	ug/L #	69
67) benzene	10.72	78	56002	11.28	ug/L	98
68) tert-amyl methyl ether	10.77	73	37150	11.04	ug/L	100
69) heptane	10.95	57	10681	11.73	ug/L	96
70) isopropyl acetate	10.66	43	30850	9.69	ug/L	98
71) 1,2-dichloroethane	10.76	62	15761	11.61	ug/L	99
72) trichloroethene	11.66	130	14051	12.10	ug/L	92
76) 2-chloroethyl vinyl ether	12.76	63	24958	37.17	ug/L	99
77) methyl methacrylate	12.05	69	7620	11.43	ug/L	96
78) 1,2-dichloropropane	12.02	63	15192	11.68	ug/L	96
79) dibromomethane	12.23	93	7562	12.40	ug/L	97
80) methylcyclohexane	11.92	83	23281	11.69	ug/L	94
81) bromodichloromethane	12.42	83	18751	11.72	ug/L	97
82) cis-1,3-dichloropropene	13.04	75	24493	11.42	ug/L	98
84) 4-methyl-2-pentanone	13.18	58	4524	12.30	ug/L	96
85) toluene	13.51	92	36125	10.56	ug/L	98
86) 3-methyl-1-butanol	13.24	55	10427	55.98	ug/L	95
87) trans-1,3-dichloropropene	13.80	75	21108	11.23	ug/L	98
88) ethyl methacrylate	13.81	69	15570	10.91	ug/L	98
89) 1,1,2-trichloroethane	14.09	83	9860	11.55	ug/L	91
90) 2-hexanone	14.34	58	4691	13.00	ug/L	91
92) 3,3-Dimethyl-1-butanol	14.58	57	10006	37.22	ug/L #	98
93) tetrachloroethene	14.29	164	12328	11.87	ug/L	100
94) 1,3-dichloropropane	14.33	76	18798	11.26	ug/L	98
95) butyl acetate	14.45	56	8168	11.05	ug/L	95
96) dibromochloromethane	14.67	129	13467	11.39	ug/L	94
97) 1,2-dibromoethane	14.86	107	10981	11.26	ug/L	97
99) chlorobenzene	15.47	112	36421	11.52	ug/L	96
100) 1,1,1,2-tetrachloroethane	15.57	131	13147	11.73	ug/L	98
101) ethylbenzene	15.56	91	65581	11.41	ug/L	100
102) m,p-xylene	15.70	106	50538	19.80	ug/L	96
103) o-xylene	16.24	106	26092	11.41	ug/L	95
104) styrene	16.26	104	42756	10.98	ug/L	98
105) bromoform	16.60	173	8681	11.38	ug/L	97
107) isopropylbenzene	16.68	105	67690	11.48	ug/L	97

(#) = qualifier out of range (m) = manual integration

X106948.D MX4516.M Tue Sep 14 15:03:52 2010 MSX

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106948.D

Vial: 6

Acq On : 14 Sep 2010 11:45 am

Operator: JUNTAEP

Sample : IC4516-10

Inst : MSX

Misc : MS1864,vx4516,5.0,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 13:31:47 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 13:31:44 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
109) bromobenzene	17.14	156	15831	11.24	ug/L	97
110) 1,1,2,2-tetrachloroethane	17.08	83	13940	10.85	ug/L	97
111) trans-1,4-dichloro-2-buten	17.13	53	4236	11.78	ug/L	94
112) 1,2,3-trichloropropane	17.15	110	3168	11.24	ug/L #	89
113) n-propylbenzene	17.17	91	78702	11.28	ug/L	99
115) 2-chlorotoluene	17.33	126	15772	11.47	ug/L	97
116) 4-chlorotoluene	17.44	91	48519	11.10	ug/L	99
117) 1,3,5-trimethylbenzene	17.35	105	54266	11.28	ug/L	99
118) tert-butylbenzene	17.72	119	47252	11.40	ug/L	97
119) pentachloroethane	17.82	167	9028	11.83	ug/L	95
120) 1,2,4-trimethylbenzene	17.77	105	54825	10.94	ug/L	99
121) 1,2,3-trimethylbenzene	18.08	105	2009	0.32	ug/L	97
122) sec-butylbenzene	17.95	105	71227	11.39	ug/L	100
123) 1,3-dichlorobenzene	18.15	146	30400	11.27	ug/L	99
124) p-isopropyltoluene	18.08	119	58687	11.44	ug/L	98
125) 1,4-dichlorobenzene	18.23	146	27919	11.04	ug/L	99
126) 1,2-dichlorobenzene	18.62	146	27774	11.41	ug/L	99
127) benzyl chloride	18.35	91	27237	10.86	ug/L	99
129) n-butylbenzene	18.50	92	31528	11.69	ug/L	98
131) 1,2-dibromo-3-chloropropan	19.38	75	2355	8.65	ug/L	98
132) 1,3,5-trichlorobenzene	19.54	180	23213	11.79	ug/L	95
133) hexachlorobutadiene	20.26	225	11403	11.87	ug/L	98
134) naphthalene	20.43	128	31831	11.65	ug/L	99
135) 1,2,4-trichlorobenzene	20.15	180	18442	12.23	ug/L	98
136) 1,2,3-trichlorobenzene	20.67	180	15298	12.40	ug/L	99
137) hexachloroethane	18.86	201	9798	11.93	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

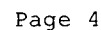
X106948.D MX4516.M Tue Sep 14 15:03:52 2010 MSX

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Vial: 6  
Operator: JUNTAEP  
Inst : MSX  
Multiplr: 1.00

Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Tue Sep 14 14:59:55 2010  
Response via : Initial Calibration



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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106949.D

Vial: 7

Acq On : 14 Sep 2010 12:14 pm

Operator: JUNTAEP

Sample : IC4516-20

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 13:23:24 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 13:23:22 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.36	65	54614	500.00	ug/L	0.00
6) pentafluorobenzene	10.06	168	134206	50.00	ug/L	0.00
60) 1,4-difluorobenzene	11.23	114	205380	50.00	ug/L	0.00
91) chlorobenzene-d5	15.43	117	188544	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	18.21	152	87889	50.00	ug/L	0.00

## System Monitoring Compounds

52) dibromofluoromethane (s)	10.12	113	54344	39.69	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	79.38%
53) 1,2-dichloroethane-d4 (s)	10.65	65	59937	39.85	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	79.70%
83) toluene-d8 (s)	13.41	98	215401	42.44	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	84.88%
108) 4-bromofluorobenzene (s)	16.93	95	81657	40.05	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	80.10%

## Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.49	59	11727	91.49	ug/L	92
4) acrolein	6.42	56	43278	107.60	ug/L #	100
5) 1,4-dioxane	12.18	88	4430	538.06	ug/L #	98
12) chlorodifluoromethane	3.80	51	23263	20.72	ug/L	92
13) dichlorodifluoromethane	3.78	85	36126	23.02	ug/L	98
16) chloromethane	4.11	50	49548	19.21	ug/L	98
17) vinyl chloride	4.36	62	39973	20.37	ug/L	97
19) bromomethane	5.03	94	23031	18.90	ug/L	97
20) chloroethane	5.21	64	20539	20.60	ug/L	99
21) trichlorofluoromethane	5.66	101	40602	21.55	ug/L	98
22) ethyl ether	6.12	74	11664	19.20	ug/L	97
26) 1,1-dichloroethene	6.58	96	20425	16.35	ug/L	98
27) acetone	6.65	58	1750	15.85	ug/L	88
28) allyl chloride	7.17	76	13692	19.89	ug/L	97
29) acetonitrile	7.16	40	19559	53.55	ug/L	89
30) iodomethane	6.88	142	39121	18.41	ug/L	100
31) iso-butyl alcohol	10.38	74	2087	171.47	ug/L	100
32) carbon disulfide	7.01	76	86521	18.74	ug/L	100
33) methylene chloride	7.39	84	23229	15.94	ug/L	99
34) methyl acetate	7.16	74	3118	19.97	ug/L	96
35) methyl tert butyl ether	7.75	73	60982	17.46	ug/L	100
36) trans-1,2-dichloroethene	7.81	96	22447	16.69	ug/L	97
37) di-isopropyl ether	8.45	45	85177	18.56	ug/L	100
38) 2-butanone	9.36	72	2089	18.02	ug/L	93
39) 1,1-dichloroethane	8.49	63	42734	17.91	ug/L	99
40) chloroprene	8.61	53	32571	19.91	ug/L	99
41) acrylonitrile	7.78	53	32462	57.45	ug/L	98
42) vinyl acetate	8.49	86	2364	19.55	ug/L	53
43) ethyl tert-butyl ether	9.02	59	76341	19.16	ug/L	99
44) ethyl acetate	9.39	70	2213	20.87	ug/L	57
45) 2,2-dichloropropane	9.38	77	35712	18.61	ug/L	98
46) cis-1,2-dichloroethene	9.39	96	24375	17.01	ug/L	97
47) propionitrile	9.51	54	25480	76.99	ug/L	99

(#)= qualifier out of range (m) = manual integration

X106949.D MX4516.M

Tue Sep 14 15:04:50 2010

MSX

Page 1

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106949.D

Vial: 7

Acq On : 14 Sep 2010 12:14 pm

Operator: JUNTAEP

Sample : IC4516-20

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 13:23:24 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 13:23:22 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) tert-Butyl Formate	9.90	59	19761	22.59	ug/L #	86
49) bromochloromethane	9.78	128	10770	20.37	ug/L	95
50) tetrahydrofuran	9.82	42	7153	17.46	ug/L	98
51) chloroform	9.87	83	38765	17.73	ug/L	99
54) freon 113	6.56	151	16972	13.01	ug/L	98
55) methacrylonitrile	9.72	41	12701	15.58	ug/L	92
56) 1,1,1-trichloroethane	10.15	97	31995	17.73	ug/L	100
57) cyclohexane	10.23	84	32400	18.25	ug/L	99
59) iso-octane	10.71	57	93455	18.96	ug/L	100
62) epichlorohydrin	12.76	57	8596	71.73	ug/L	94
63) n-butyl alcohol	11.43	56	30306	118.92	ug/L	99
64) carbon tetrachloride	10.41	117	28771	17.94	ug/L	99
65) 1,1-dichloropropene	10.38	75	30827	17.66	ug/L	99
66) hexane	8.15	86	4353	20.80	ug/L #	90
67) benzene	10.72	78	86322	16.60	ug/L	97
68) tert-amyl methyl ether	10.77	73	62890	17.83	ug/L	100
69) heptane	10.95	57	19234	20.16	ug/L	96
70) isopropyl acetate	10.66	43	54819	16.43	ug/L	97
71) 1,2-dichloroethane	10.76	62	25053	17.62	ug/L	95
72) trichloroethene	11.66	130	22443	18.44	ug/L	98
76) 2-chloroethyl vinyl ether	12.76	63	43143	61.33	ug/L	100
77) methyl methacrylate	12.05	69	12614	18.07	ug/L	97
78) 1,2-dichloropropane	12.02	63	24442	17.93	ug/L	97
79) dibromomethane	12.24	93	12257	19.18	ug/L	95
80) methylcyclohexane	11.92	83	41786	20.02	ug/L	99
81) bromodichloromethane	12.42	83	29727	17.73	ug/L	98
82) cis-1,3-dichloropropene	13.04	75	39566	17.60	ug/L	98
84) 4-methyl-2-pentanone	13.18	58	7860	20.40	ug/L	98
85) toluene	13.51	92	54867	15.31	ug/L	99
86) 3-methyl-1-butanol	13.24	55	19277	98.78	ug/L	96
87) trans-1,3-dichloropropene	13.80	75	33623	17.07	ug/L	99
88) ethyl methacrylate	13.81	69	25610	17.13	ug/L	98
89) 1,1,2-trichloroethane	14.09	83	15892	17.76	ug/L	95
90) 2-hexanone	14.34	58	7320	19.36	ug/L	96
92) 3,3-Dimethyl-1-butanol	14.58	57	18867	66.16	ug/L	99
93) tetrachloroethene	14.28	164	19623	17.81	ug/L	100
94) 1,3-dichloropropane	14.33	76	30412	17.18	ug/L	98
95) butyl acetate	14.45	56	14156	18.06	ug/L	97
96) dibromochloromethane	14.67	129	21894	17.46	ug/L	99
97) 1,2-dibromoethane	14.86	107	18310	17.70	ug/L	99
99) chlorobenzene	15.47	112	57946	17.28	ug/L	98
100) 1,1,1,2-tetrachloroethane	15.56	131	21071	17.72	ug/L	96
101) ethylbenzene	15.56	91	102898	16.88	ug/L	99
102) m,p-xylene	15.70	106	78359	28.94	ug/L	98
103) o-xylene	16.24	106	40967	16.88	ug/L	92
104) styrene	16.26	104	66605	16.13	ug/L	98
105) bromoform	16.60	173	14485	17.90	ug/L	98
107) isopropylbenzene	16.68	105	106489	17.26	ug/L	99
109) bromobenzene	17.14	156	24714	16.76	ug/L	95

(#)=qualifier out of range (m)=manual integration

X106949.D MX4516.M

Tue Sep 14 15:04:50 2010

MSX

Page 2

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106949.D

Vial: 7

Acq On : 14 Sep 2010 12:14 pm

Operator: JUNTAEP

Sample : IC4516-20

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 13:23:24 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 13:23:22 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
110) 1,1,2,2-tetrachloroethane	17.08	83	23124	17.20	ug/L	98
111) trans-1,4-dichloro-2-buten	17.13	53	7029	18.69	ug/L	93
112) 1,2,3-trichloropropane	17.15	110	5270	17.86	ug/L	94
113) n-propylbenzene	17.17	91	121623	16.66	ug/L	99
115) 2-chlorotoluene	17.33	126	24638	17.12	ug/L	96
116) 4-chlorotoluene	17.44	91	75338	16.47	ug/L	99
117) 1,3,5-trimethylbenzene	17.35	105	83592	16.60	ug/L	99
118) tert-butylbenzene	17.73	119	74367	17.14	ug/L	98
119) pentachloroethane	17.82	167	14170	17.75	ug/L	98
120) 1,2,4-trimethylbenzene	17.77	105	85737	16.36	ug/L	100
122) sec-butylbenzene	17.95	105	112228	17.15	ug/L	100
123) 1,3-dichlorobenzene	18.15	146	46681	16.54	ug/L	99
124) p-isopropyltoluene	18.08	119	91266	17.00	ug/L	99
125) 1,4-dichlorobenzene	18.23	146	43919	16.59	ug/L	99
126) 1,2-dichlorobenzene	18.62	146	43517	17.09	ug/L	99
127) benzyl chloride	18.36	91	47773	18.20	ug/L	100
129) n-butylbenzene	18.50	92	49749	17.62	ug/L	97
131) 1,2-dibromo-3-chloropropan	19.38	75	4011	14.08	ug/L	93
132) 1,3,5-trichlorobenzene	19.54	180	36038	17.49	ug/L	98
133) hexachlorobutadiene	20.26	225	17269	17.17	ug/L	97
134) naphthalene	20.43	128	52420	18.33	ug/L	100
135) 1,2,4-trichlorobenzene	20.15	180	28788	18.24	ug/L	99
136) 1,2,3-trichlorobenzene	20.67	180	23972	18.58	ug/L	100
137) hexachloroethane	18.86	201	15483	18.01	ug/L	97

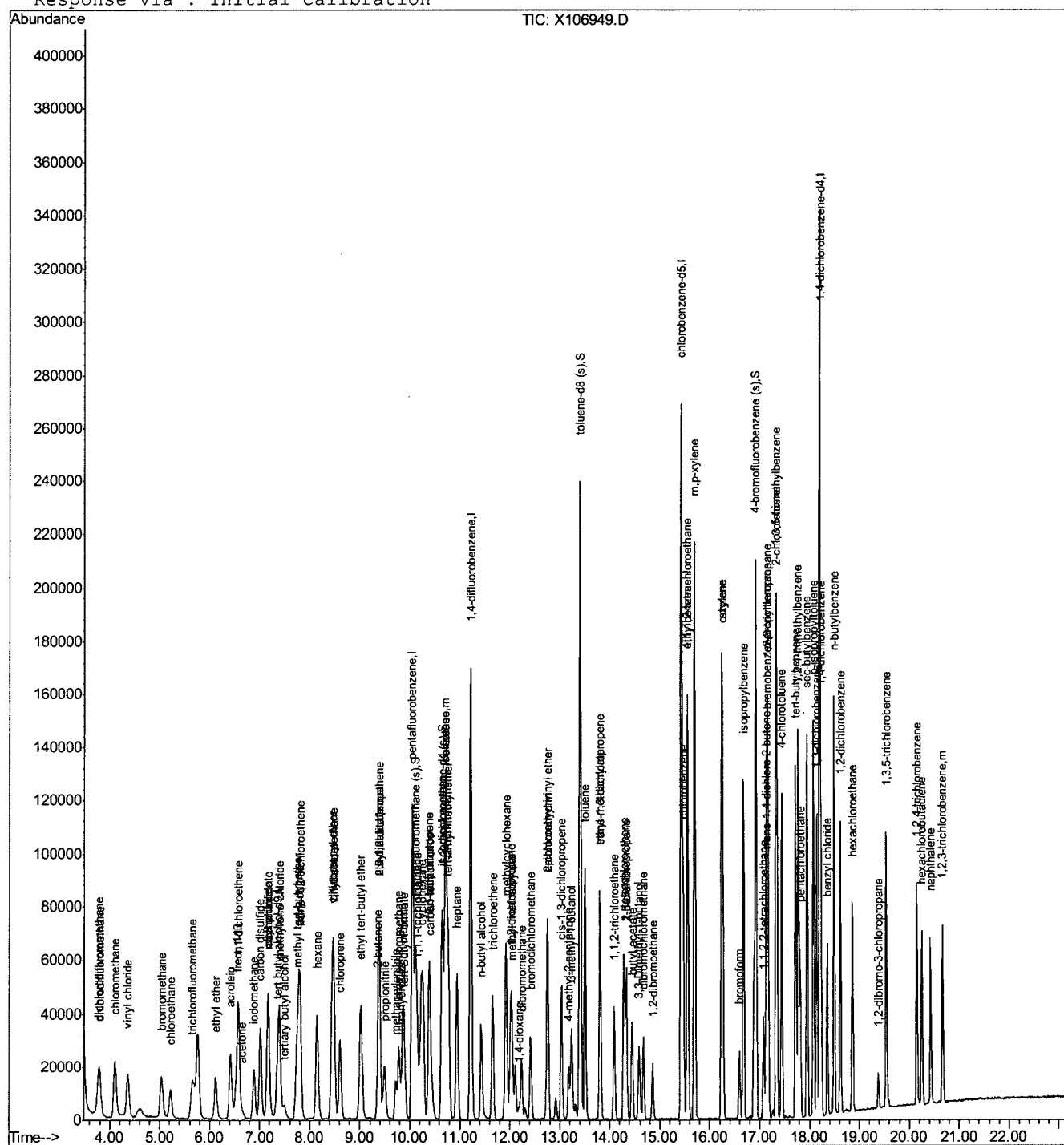
(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X106949.D MX4516.M Tue Sep 14 15:04:50 2010 MSX

(QT Reviewed)

Vial: 7  
Operator: JUNTAEP  
Inst : MSX  
Multiplr: 1.00

Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Tue Sep 14 14:59:55 2010  
Response via : Initial Calibration



## 6.6.17



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106950.D

Vial: 8

Acq On : 14 Sep 2010 12:44 pm

Operator: JUNTAEP

Sample : ICC4516-50

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 13:07:24 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Mon Sep 13 16:49:33 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.37	65	47450	500.00	ug/L	0.00
6) pentafluorobenzene	10.05	168	125800	50.00	ug/L	-0.01
60) 1,4-difluorobenzene	11.23	114	197366	50.00	ug/L	0.00
91) chlorobenzene-d5	15.44	117	183487	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	18.21	152	83342	50.00	ug/L	0.00

## System Monitoring Compounds

52) dibromofluoromethane (s)	10.12	113	47117	45.44	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 127	Recovery	=	90.88%
53) 1,2-dichloroethane-d4 (s)	10.65	65	51954	42.38	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	84.76%
83) toluene-d8 (s)	13.41	98	189340	42.98	ug/L	-0.01
Spiked Amount	50.000	Range	74 - 129	Recovery	=	85.96%
108) 4-bromofluorobenzene (s)	16.93	95	71872	44.02	ug/L	-0.01
Spiked Amount	50.000	Range	62 - 138	Recovery	=	88.04%

## Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.50	59	28632	241.94	ug/L	96
4) acrolein	6.42	56	98626	697.37	ug/L	# 100
5) 1,4-dioxane	12.18	88	11195	1179.84	ug/L	# 95
12) chlorodifluoromethane	3.81	51	65129	60.87	ug/L	91
13) dichlorodifluoromethane	3.79	85	96255	49.40	ug/L	98
16) chloromethane	4.12	50	123053	75.33	ug/L	98
17) vinyl chloride	4.38	62	100115	68.24	ug/L	99
19) bromomethane	5.04	94	55980	54.58	ug/L	99
20) chloroethane	5.22	64	51153	66.12	ug/L	99
21) trichlorofluoromethane	5.66	101	101543	48.33	ug/L	99
22) ethyl ether	6.13	74	31326	60.99	ug/L	81
26) 1,1-dichloroethene	6.58	96	54862	54.76	ug/L	98
27) acetone	6.66	58	4101	72.95	ug/L	# 84
28) allyl chloride	7.17	76	36131	61.17	ug/L	# 75
29) acetonitrile	7.16	40	44914	729.66	ug/L	# 75
30) iodomethane	6.89	142	108375	51.67	ug/L	95
31) iso-butyl alcohol	10.39	74	5727	552.93	ug/L	100
32) carbon disulfide	7.02	76	225706	63.24	ug/L	100
33) methylene chloride	7.40	84	62145	55.32	ug/L	85
34) methyl acetate	7.16	74	7588	62.62	ug/L	# 54
35) methyl tert butyl ether	7.76	73	160844	55.18	ug/L	94
36) trans-1,2-dichloroethene	7.82	96	59125	53.81	ug/L	92
37) di-isopropyl ether	8.45	45	213977	69.78	ug/L	95
38) 2-butanone	9.36	72	5411	61.55	ug/L	74
39) 1,1-dichloroethane	8.49	63	113368	59.20	ug/L	98
40) chloroprene	8.61	53	82875	61.32	ug/L	97
41) acrylonitrile	7.78	53	81402	350.31	ug/L	98
42) vinyl acetate	8.48	86	6089	50.51	ug/L	30
43) ethyl tert-butyl ether	9.02	59	195566	59.36	ug/L	95
44) ethyl acetate	9.39	70	5302	58.95	ug/L	89
45) 2,2-dichloropropane	9.38	77	97640	52.70	ug/L	90
46) cis-1,2-dichloroethene	9.40	96	63852	53.75	ug/L	92
47) propionitrile	9.51	54	63751	662.68	ug/L	93

(#)= qualifier out of range (m) = manual integration

X106950.D MX4516.M

Tue Sep 14 15:05:00 2010

MSX

Page 1

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106950.D

Vial: 8

Acq On : 14 Sep 2010 12:44 pm

Operator: JUNTAEP

Sample : ICC4516-50

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 13:07:24 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Mon Sep 13 16:49:33 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) tert-Butyl Formate	9.90	59	49809	60.62	ug/L	94
49) bromochloromethane	9.79	128	29293	53.09	ug/L #	79
50) tetrahydrofuran	9.83	42	17639	75.47	ug/L	88
51) chloroform	9.87	83	102577	51.42	ug/L	98
54) freon 113	6.56	151	44060	46.83	ug/L	86
55) methacrylonitrile	9.72	41	32353	74.98	ug/L	95
56) 1,1,1-trichloroethane	10.16	97	90965	51.07	ug/L	98
57) cyclohexane	10.23	84	89757	60.12	ug/L	86
59) iso-octane	10.71	57	233416	66.45	ug/L	97
62) epichlorohydrin	12.76	57	21690	294.71	ug/L	94
63) n-butyl alcohol	11.43	56	74350	3231.53	ug/L	95
64) carbon tetrachloride	10.41	117	78564	42.90	ug/L	99
65) 1,1-dichloropropene	10.38	75	83198	50.33	ug/L	98
66) hexane	8.15	86	11107	51.38	ug/L #	55
67) benzene	10.72	78	226397	48.56	ug/L	98
68) tert-amyl methyl ether	10.77	73	154560	47.70	ug/L	97
69) heptane	10.95	57	48854	60.15	ug/L	96
70) isopropyl acetate	10.66	43	135382	64.41	ug/L	93
71) 1,2-dichloroethane	10.76	62	63962	41.90	ug/L	97
72) trichloroethene	11.66	130	62717	45.60	ug/L	93
76) 2-chloroethyl vinyl ether	12.76	63	108428	271.79	ug/L	96
77) methyl methacrylate	12.05	69	32142	57.06	ug/L	93
78) 1,2-dichloropropane	12.02	63	66267	56.59	ug/L	99
79) dibromomethane	12.23	93	32969	48.42	ug/L	90
80) methylcyclohexane	11.92	83	107065	52.72	ug/L	92
81) bromodichloromethane	12.42	83	81247	48.59	ug/L	99
82) cis-1,3-dichloropropene	13.04	75	107610	51.90	ug/L	96
84) 4-methyl-2-pentanone	13.18	58	20547	60.73	ug/L #	83
85) toluene	13.51	92	150224	48.16	ug/L	96
86) 3-methyl-1-butanol	13.23	55	46219	1239.65	ug/L	87
87) trans-1,3-dichloropropene	13.80	75	90388	49.03	ug/L	99
88) ethyl methacrylate	13.81	69	66196	57.83	ug/L	90
89) 1,1,2-trichloroethane	14.09	83	42512	50.61	ug/L	99
90) 2-hexanone	14.34	58	17822	59.99	ug/L	88
92) 3,3-Dimethyl-1-butanol	14.58	57	47642	656.41	ug/L	95
93) tetrachloroethene	14.29	164	54018	42.81	ug/L	93
94) 1,3-dichloropropane	14.33	76	78550	48.49	ug/L	92
95) butyl acetate	14.45	56	34402	56.97	ug/L	95
96) dibromochloromethane	14.68	129	59694	47.83	ug/L	99
97) 1,2-dibromoethane	14.86	107	49981	48.64	ug/L	99
99) chlorobenzene	15.47	112	162686	47.46	ug/L	98
100) 1,1,1,2-tetrachloroethane	15.57	131	55852	44.24	ug/L	96
101) ethylbenzene	15.56	91	274394	47.08	ug/L	98
102) m,p-xylene	15.70	106	208010	90.40	ug/L	94
103) o-xylene	16.24	106	112708	47.46	ug/L	97
104) styrene	16.26	104	174319	50.28	ug/L	95
105) bromoform	16.60	173	40143	47.38	ug/L	97
107) isopropylbenzene	16.68	105	284781	52.41	ug/L	98
109) bromobenzene	17.14	156	67748	45.92	ug/L #	84

(#)=qualifier out of range (m)=manual integration

X106950.D MX4516.M

Tue Sep 14 15:05:00 2010

MSX

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106950.D

Vial: 8

Acq On : 14 Sep 2010 12:44 pm

Operator: JUNTAEP

Sample : ICC4516-50

Inst : MSX

Misc : MS1864,vx4516,5.0,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 13:07:24 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Mon Sep 13 16:49:33 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
110) 1,1,2,2-tetrachloroethane	17.08	83	62402	55.81	ug/L	98
111) trans-1,4-dichloro-2-buten	17.13	53	18265	57.19	ug/L	95
112) 1,2,3-trichloropropane	17.15	110	13187	45.39	ug/L #	64
113) n-propylbenzene	17.17	91	316150	49.91	ug/L	95
115) 2-chlorotoluene	17.33	126	67471	48.50	ug/L	88
116) 4-chlorotoluene	17.44	91	200931	51.41	ug/L	98
117) 1,3,5-trimethylbenzene	17.35	105	220329	48.61	ug/L	97
118) tert-butylbenzene	17.73	119	203750	49.75	ug/L	98
119) pentachloroethane	17.82	167	39392	48.47	ug/L	98
120) 1,2,4-trimethylbenzene	17.77	105	226995	50.11	ug/L	97
122) sec-butylbenzene	17.95	105	306366	52.03	ug/L	96
123) 1,3-dichlorobenzene	18.15	146	126419	46.28	ug/L	98
124) p-isopropyltoluene	18.08	119	250615	50.60	ug/L	98
125) 1,4-dichlorobenzene	18.23	146	121094	47.07	ug/L	99
126) 1,2-dichlorobenzene	18.62	146	118465	47.09	ug/L	98
127) benzyl chloride	18.35	91	122851	54.52	ug/L	98
129) n-butylbenzene	18.50	92	138553	53.32	ug/L	95
131) 1,2-dibromo-3-chloropropan	19.38	75	10850	47.27	ug/L	95
132) 1,3,5-trichlorobenzene	19.54	180	103476	48.13	ug/L	98
133) hexachlorobutadiene	20.25	225	48683	45.90	ug/L	98
134) naphthalene	20.43	128	148042	52.28	ug/L	98
135) 1,2,4-trichlorobenzene	20.15	180	83950	49.19	ug/L	100
136) 1,2,3-trichlorobenzene	20.67	180	69696	50.12	ug/L	99
137) hexachloroethane	18.86	201	45893	49.03	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
X106950.D MX4516.M Tue Sep 14 15:05:01 2010 MSX

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Vial: 8

Operator: JUNTAEF

Inst : MSX

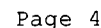
Multiplr: 1.00

Quant Results File: MX4516.RES

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 14:59:55 2010

Response via : Initial Calibration



6.6.18 6

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106952.D

Vial: 10

Acq On : 14 Sep 2010 1:43 pm

Operator: JUNTAEP

Sample : IC4516-100

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 14:06:48 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 13:54:49 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.37	65	45184	500.00	ug/L	0.00
6) pentafluorobenzene	10.06	168	122471	50.00	ug/L	0.00
60) 1,4-difluorobenzene	11.22	114	192392	50.00	ug/L	0.00
91) chlorobenzene-d5	15.43	117	177746	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	18.21	152	81323	50.00	ug/L	0.00

## System Monitoring Compounds

52) dibromofluoromethane (s)	10.12	113	107100	101.55	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	203.10%#
53) 1,2-dichloroethane-d4 (s)	10.65	65	114283	92.27	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	184.54%#
83) toluene-d8 (s)	13.41	98	404583	88.59	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	177.18%#
108) 4-bromofluorobenzene (s)	16.93	95	156259	95.28	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	190.56%#

## Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.50	59	60105	585.90	ug/L	97
4) acrolein	6.41	56	195007	1141.12	ug/L	100
5) 1,4-dioxane	12.17	88	24979	3332.67	ug/L	# 98
12) chlorodifluoromethane	3.80	51	133083	120.62	ug/L	99
13) dichlorodifluoromethane	3.78	85	199248	122.90	ug/L	98
16) chloromethane	4.12	50	247129	104.98	ug/L	98
17) vinyl chloride	4.38	62	197538	110.30	ug/L	99
19) bromomethane	5.04	94	108530	97.60	ug/L	100
20) chloroethane	5.22	64	100620	103.40	ug/L	99
21) trichlorofluoromethane	5.66	101	209921	114.27	ug/L	99
22) ethyl ether	6.12	74	64048	115.56	ug/L	96
26) 1,1-dichloroethene	6.58	96	109026	95.64	ug/L	99
27) acetone	6.65	58	8483	84.21	ug/L	98
28) allyl chloride	7.17	76	71854	106.84	ug/L	98
29) acetonitrile	7.16	40	90563	937.30	ug/L	# 70
30) iodomethane	6.88	142	223305	115.17	ug/L	97
31) iso-butyl alcohol	10.38	74	15237	1371.86	ug/L	100
32) carbon disulfide	7.01	76	464235	110.19	ug/L	100
33) methylene chloride	7.40	84	126644	95.24	ug/L	99
34) methyl acetate	7.16	74	15784	110.79	ug/L	96
35) methyl tert butyl ether	7.75	73	320917	100.70	ug/L	100
36) trans-1,2-dichloroethene	7.81	96	116819	95.19	ug/L	98
37) di-isopropyl ether	8.45	45	425655	101.63	ug/L	94
38) 2-butanone	9.36	72	11142	105.32	ug/L	84
39) 1,1-dichloroethane	8.49	63	224095	102.90	ug/L	99
40) chloroprene	8.61	53	170534	114.24	ug/L	98
41) acrylonitrile	7.78	53	158434	484.01	ug/L	99
42) vinyl acetate	8.47	86	11854	107.45	ug/L	96
43) ethyl tert-butyl ether	9.02	59	397253	109.24	ug/L	100
44) ethyl acetate	9.38	70	10588	101.53	ug/L	95
45) 2,2-dichloropropane	9.38	77	192180	103.33	ug/L	97
46) cis-1,2-dichloroethene	9.40	96	125922	96.28	ug/L	97
47) propionitrile	9.51	54	129177	1004.83	ug/L	96

(#)=qualifier out of range (m)=manual integration

X106952.D MX4516.M

Tue Sep 14 15:05:14 2010

MSX

Page 1

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106952.D

Vial: 10

Acq On : 14 Sep 2010 1:43 pm

Operator: JUNTAEP

Sample : IC4516-100

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 14:06:48 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 13:54:49 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) tert-Butyl Formate	9.89	59	103979	117.68	ug/L #	87
49) bromochloromethane	9.79	128	58248	109.54	ug/L	97
50) tetrahydrofuran	9.82	42	35319	96.07	ug/L	99
51) chloroform	9.87	83	202856	101.68	ug/L	99
54) freon 113	6.55	151	89213	104.68	ug/L	98
55) methacrylonitrile	9.72	41	65857	87.60	ug/L	97
56) 1,1,1-trichloroethane	10.16	97	184025	111.73	ug/L	99
57) cyclohexane	10.23	84	179025	110.50	ug/L	99
59) iso-octane	10.71	57	460097	102.28	ug/L	99
62) epichlorohydrin	12.76	57	45081	520.93	ug/L	97
63) n-butyl alcohol	11.43	56	163477	5495.54	ug/L	99
64) carbon tetrachloride	10.41	117	157448	104.78	ug/L	99
65) 1,1-dichloropropene	10.38	75	167011	102.16	ug/L	99
66) hexane	8.16	86	23100	118.62	ug/L #	88
67) benzene	10.72	78	438128	89.95	ug/L	99
68) tert-amyl methyl ether	10.77	73	309874	93.78	ug/L	100
69) heptane	10.95	57	99209	107.03	ug/L	97
70) isopropyl acetate	10.66	43	261562	93.32	ug/L	98
71) 1,2-dichloroethane	10.76	62	124318	93.33	ug/L	97
72) trichloroethene	11.65	130	127921	112.20	ug/L	100
76) 2-chloroethyl vinyl ether	12.76	63	228524	534.62	ug/L	99
77) methyl methacrylate	12.05	69	63197	96.62	ug/L	85
78) 1,2-dichloropropane	12.02	63	129462	101.40	ug/L	98
79) dibromomethane	12.23	93	67673	108.58	ug/L	99
80) methylcyclohexane	11.92	83	217389	111.19	ug/L	99
81) bromodichloromethane	12.42	83	164632	104.80	ug/L	97
82) cis-1,3-dichloropropene	13.04	75	213033	101.16	ug/L	99
84) 4-methyl-2-pentanone	13.18	58	42228	108.93	ug/L	98
85) toluene	13.51	92	292460	87.10	ug/L	97
86) 3-methyl-1-butanol	13.23	55	97701	1923.27	ug/L	99
87) trans-1,3-dichloropropene	13.80	75	177932	96.46	ug/L	99
88) ethyl methacrylate	13.81	69	129473	92.44	ug/L	97
89) 1,1,2-trichloroethane	14.09	83	84947	101.35	ug/L	98
90) 2-hexanone	14.33	58	34784	91.61	ug/L	99
92) 3,3-Dimethyl-1-butanol	14.58	57	105137	1019.56	ug/L	99
93) tetrachloroethene	14.28	164	108504	104.46	ug/L	98
94) 1,3-dichloropropane	14.33	76	152958	91.64	ug/L	100
95) butyl acetate	14.44	56	70544	95.48	ug/L	99
96) dibromochloromethane	14.67	129	119056	100.72	ug/L	98
97) 1,2-dibromoethane	14.86	107	101476	104.05	ug/L	98
99) chlorobenzene	15.47	112	322494	102.00	ug/L	99
100) 1,1,1,2-tetrachloroethane	15.56	131	110691	98.73	ug/L	98
101) ethylbenzene	15.55	91	523882	91.19	ug/L	99
102) m,p-xylene	15.70	106	403944	181.94	ug/L	94
103) o-xylene	16.24	106	222666	97.35	ug/L	97
104) styrene	16.26	104	333903	85.75	ug/L	99
105) bromoform	16.60	173	81693	107.06	ug/L	97
107) isopropylbenzene	16.68	105	552040	96.68	ug/L	99
109) bromobenzene	17.14	156	132625	97.22	ug/L	97

(#)=qualifier out of range (m)=manual integration

X106952.D MX4516.M

Tue Sep 14 15:05:15 2010

MSX

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106952.D

Vial: 10

Acq On : 14 Sep 2010 1:43 pm

Operator: JUNTAEP

Sample : IC4516-100

Inst : MSX

Misc : MS1864,vx4516,5.0,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 14:06:48 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 13:54:49 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
110) 1,1,2,2-tetrachloroethane	17.08	83	126416	101.63	ug/L	99
111) trans-1,4-dichloro-2-buten	17.13	53	36947	106.15	ug/L	95
112) 1,2,3-trichloropropane	17.15	110	25924	94.98	ug/L	96
113) n-propylbenzene	17.17	91	606509	89.79	ug/L	97
115) 2-chlorotoluene	17.33	126	135280	102.26	ug/L	94
116) 4-chlorotoluene	17.44	91	400902	94.70	ug/L	98
117) 1,3,5-trimethylbenzene	17.35	105	424066	91.02	ug/L	98
118) tert-butylbenzene	17.72	119	409342	101.97	ug/L	99
119) pentachloroethane	17.82	167	78580	106.39	ug/L	99
120) 1,2,4-trimethylbenzene	17.77	105	439712	90.65	ug/L	97
122) sec-butylbenzene	17.95	105	603589	99.66	ug/L	98
123) 1,3-dichlorobenzene	18.15	146	252457	96.67	ug/L	98
124) p-isopropyltoluene	18.08	119	494580	99.57	ug/L	98
125) 1,4-dichlorobenzene	18.23	146	249969	102.08	ug/L	100
126) 1,2-dichlorobenzene	18.62	146	241529	102.52	ug/L	98
127) benzyl chloride	18.35	91	259045	106.66	ug/L	99
129) n-butylbenzene	18.50	92	281318	107.71	ug/L	96
131) 1,2-dibromo-3-chloropropan	19.37	75	22842	102.68	ug/L	95
132) 1,3,5-trichlorobenzene	19.54	180	207309	108.75	ug/L	99
133) hexachlorobutadiene	20.25	225	95657	102.82	ug/L	99
134) naphthalene	20.43	128	307936	116.37	ug/L	99
135) 1,2,4-trichlorobenzene	20.15	180	171564	117.48	ug/L	99
136) 1,2,3-trichlorobenzene	20.67	180	142761	119.55	ug/L	99
137) hexachloroethane	18.86	201	96008	120.71	ug/L	99

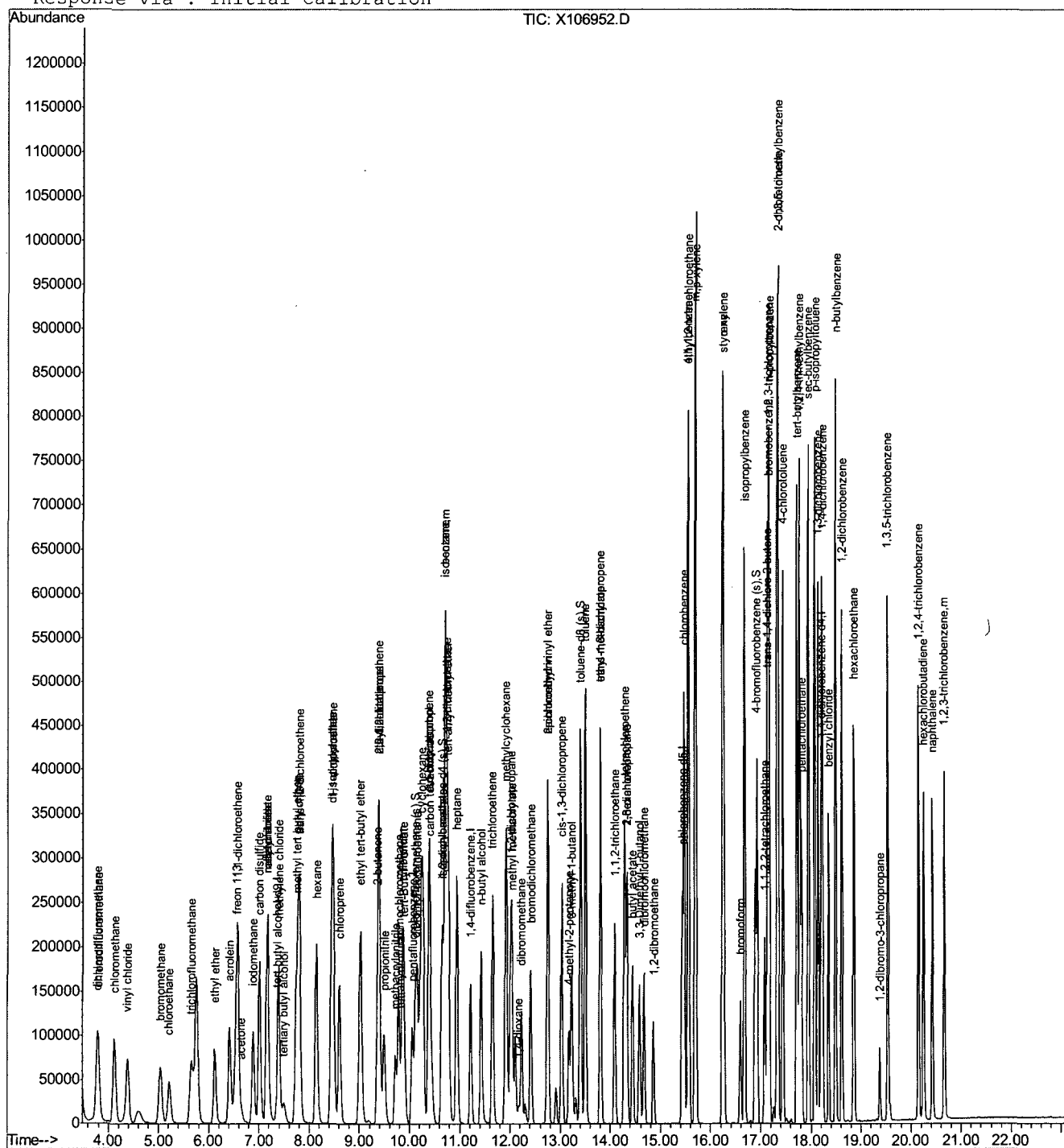
(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X106952.D MX4516.M Tue Sep 14 15:05:15 2010 MSX

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(QT Reviewed)

Vial: 10  
Operator: JUNTAEP  
Inst : MSX  
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Tue Sep 14 14:59:55 2010  
Response via : Initial Calibration



6.6.19



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106953.D

Vial: 11

Acq On : 14 Sep 2010 2:12 pm

Operator: JUNTAEP

Sample : IC4516-200

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 14:36:03 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 13:54:49 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.37	65	43075	500.00	ug/L	0.00
6) pentafluorobenzene	10.06	168	124722	50.00	ug/L	0.00
60) 1,4-difluorobenzene	11.23	114	197888	50.00	ug/L	0.00
91) chlorobenzene-d5	15.44	117	182120	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	18.21	152	81146	50.00	ug/L	0.00

## System Monitoring Compounds

52) dibromofluoromethane (s)	10.12	113	200200	186.40	ug/L	0.00
Spiked Amount	50.000	Range 67 - 127	Recovery	=	372.80%#	
53) 1,2-dichloroethane-d4 (s)	10.65	65	211854	167.96	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	=	335.92%#	
83) toluene-d8 (s)	13.41	98	715021	152.21	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	304.42%#	
108) 4-bromofluorobenzene (s)	16.93	95	282179	172.43	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	344.86%#	

## Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.51	59	118452	1211.20	ug/L	68
4) acrolein	6.42	56	371305	2279.15	ug/L	99
5) 1,4-dioxane	12.18	88	48930	6847.82	ug/L	# 97
12) chlorodifluoromethane	3.80	51	243842	217.02	ug/L	98
13) dichlorodifluoromethane	3.78	85	364422	220.72	ug/L	99
16) chloromethane	4.14	50	419182	174.85	ug/L	99
17) vinyl chloride	4.40	62	354153	194.18	ug/L	98
19) bromomethane	5.05	94	104539	92.31	ug/L	98
20) chloroethane	5.21	64	170672	172.23	ug/L	99
21) trichlorofluoromethane	5.65	101	382044	204.20	ug/L	98
22) ethyl ether	6.13	74	125193	221.80	ug/L	96
26) 1,1-dichloroethene	6.58	96	202505	174.43	ug/L	98
27) acetone	6.66	58	16783	163.59	ug/L	87
28) allyl chloride	7.17	76	129776	189.48	ug/L	95
29) acetoneitrile	7.17	40	164548	1672.28	ug/L	# 64
30) iodomethane	6.88	142	425732	215.62	ug/L	97
31) iso-butyl alcohol	10.38	74	28566	2525.52	ug/L	100
32) carbon disulfide	7.01	76	869145	202.57	ug/L	99
33) methylene chloride	7.40	84	240500	177.59	ug/L	98
34) methyl acetate	7.16	74	30063	207.21	ug/L	99
35) methyl tert butyl ether	7.76	73	601739	185.42	ug/L	100
36) trans-1,2-dichloroethene	7.81	96	216304	173.07	ug/L	97
37) di-isopropyl ether	8.45	45	767902	180.04	ug/L	97
38) 2-butanone	9.36	72	21022	195.12	ug/L	88
39) 1,1-dichloroethane	8.49	63	415138	187.18	ug/L	99
40) chloroprene	8.61	53	317864	209.09	ug/L	97
41) acrylonitrile	7.78	53	292847	878.48	ug/L	99
42) vinyl acetate	8.48	86	22513	200.38	ug/L	90
43) ethyl tert-butyl ether	9.03	59	730537	197.26	ug/L	99
44) ethyl acetate	9.38	70	19561	184.19	ug/L	96
45) 2,2-dichloropropane	9.38	77	348025	183.74	ug/L	98
46) cis-1,2-dichloroethene	9.40	96	234939	176.39	ug/L	96
47) propionitrile	9.50	54	252158	1926.06	ug/L	92

(#)= qualifier out of range (m) = manual integration

X106953.D MX4516.M

Tue Sep 14 15:05:30 2010

MSX

Page 1

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106953.D

Acq On : 14 Sep 2010 2:12 pm

Sample : IC4516-200

Misc : MS1864,vx4516,5.0,,,,,1

MS Integration Params: Rteint.p

Quant Time: Sep 14 14:36:03 2010

Vial: 11

Operator: JUNTAEP

Inst : MSX

Multiplr: 1.00

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 13:54:49 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) tert-Butyl Formate	9.90	59	192887	214.37	ug/L	99
49) bromochloromethane	9.79	128	111232	205.40	ug/L	98
50) tetrahydrofuran	9.82	42	66912	178.73	ug/L	98
51) chloroform	9.87	83	380580	187.32	ug/L	99
54) freon 113	6.55	151	157914	181.95	ug/L	97
55) methacrylonitrile	9.72	41	129300	168.89	ug/L	98
56) 1,1,1-trichloroethane	10.16	97	343454	204.76	ug/L	99
57) cyclohexane	10.24	84	330904	200.55	ug/L	95
59) iso-octane	10.72	57	793866	173.29	ug/L	99
62) epichlorohydrin	12.76	57	84054	944.30	ug/L	95
63) n-butyl alcohol	11.43	56	311944	10195.25	ug/L	100
64) carbon tetrachloride	10.41	117	293878	190.14	ug/L	98
65) 1,1-dichloropropene	10.39	75	313739	186.58	ug/L	98
66) hexane	8.15	86	42251	210.94	ug/L	97
67) benzene	10.72	78	808394	161.35	ug/L	100
68) tert-amyl methyl ether	10.78	73	570074	167.74	ug/L	99
69) heptane	10.94	57	182577	191.49	ug/L	98
70) isopropyl acetate	10.66	43	465097	161.32	ug/L	96
71) 1,2-dichloroethane	10.77	62	236859	172.87	ug/L	97
72) trichloroethene	11.65	130	243426	207.59	ug/L	98
76) 2-chloroethyl vinyl ether	12.76	63	420407	956.20	ug/L	98
77) methyl methacrylate	12.05	69	120832	179.60	ug/L	93
78) 1,2-dichloropropane	12.02	63	245154	186.67	ug/L	99
79) dibromomethane	12.23	93	130485	203.55	ug/L	98
80) methylcyclohexane	11.93	83	391171	194.52	ug/L	98
81) bromodichloromethane	12.42	83	313741	194.17	ug/L	100
82) cis-1,3-dichloropropene	13.04	75	399776	184.57	ug/L	99
84) 4-methyl-2-pentanone	13.18	58	83107	208.42	ug/L	97
85) toluene	13.51	92	545757	158.03	ug/L	93
86) 3-methyl-1-butanol	13.23	55	181832	3479.99	ug/L	99
87) trans-1,3-dichloropropene	13.80	75	331530	174.74	ug/L	99
88) ethyl methacrylate	13.81	69	241025	167.31	ug/L	97
89) 1,1,2-trichloroethane	14.09	83	162021	187.93	ug/L	100
90) 2-hexanone	14.34	58	66580	170.48	ug/L	94
92) 3,3-Dimethyl-1-butanol	14.58	57	198085	1874.79	ug/L	99
93) tetrachloroethene	14.29	164	208177	195.61	ug/L	99
94) 1,3-dichloropropane	14.33	76	287211	167.93	ug/L	100
95) butyl acetate	14.45	56	134669	177.90	ug/L	97
96) dibromochloromethane	14.67	129	230143	190.01	ug/L	100
97) 1,2-dibromoethane	14.86	107	197124	197.27	ug/L	97
99) chlorobenzene	15.47	112	602255	185.91	ug/L	98
100) 1,1,1,2-tetrachloroethane	15.57	131	207027	180.22	ug/L	99
101) ethylbenzene	15.56	91	931989	158.33	ug/L	95
102) m,p-xylene	15.70	106	737967	324.40	ug/L	85
103) o-xylene	16.24	106	407477	173.86	ug/L	91
104) styrene	16.27	104	604803	151.59	ug/L	97
105) bromoform	16.60	173	157528	201.48	ug/L	97
107) isopropylbenzene	16.68	105	980475	172.09	ug/L	96
109) bromobenzene	17.15	156	244772	179.83	ug/L	92

(# ) = qualifier out of range (m) = manual integration

X106953.D MX4516.M

Tue Sep 14 15:05:31 2010

MSX

Page 2

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106953.D

Vial: 11

Acq On : 14 Sep 2010 2:12 pm

Operator: JUNTAEP

Sample : IC4516-200

Inst : MSX

Misc : MS1864,vx4516,5.0,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 14:36:03 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 13:54:49 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
110) 1,1,2,2-tetrachloroethane	17.08	83	241944	194.92	ug/L	99
111) trans-1,4-dichloro-2-buten	17.13	53	67454	194.21	ug/L	92
112) 1,2,3-trichloropropane	17.16	110	48467	177.95	ug/L #	60
113) n-propylbenzene	17.17	91	1061064	157.43	ug/L	93
115) 2-chlorotoluene	17.33	126	249968	189.37	ug/L	88
116) 4-chlorotoluene	17.44	91	724136	171.42	ug/L	96
117) 1,3,5-trimethylbenzene	17.35	105	746941	160.67	ug/L	94
118) tert-butylbenzene	17.73	119	737920	184.22	ug/L	98
119) pentachloroethane	17.82	167	147494	200.13	ug/L	98
120) 1,2,4-trimethylbenzene	17.78	105	777780	160.70	ug/L	93
122) sec-butylbenzene	17.96	105	1061276	175.61	ug/L	95
123) 1,3-dichlorobenzene	18.15	146	467593	179.44	ug/L	97
124) p-isopropyltoluene	18.08	119	871776	175.89	ug/L	95
125) 1,4-dichlorobenzene	18.23	146	464525	190.10	ug/L	98
126) 1,2-dichlorobenzene	18.62	146	443895	188.83	ug/L	97
127) benzyl chloride	18.36	91	471380	194.51	ug/L	98
129) n-butylbenzene	18.50	92	501340	192.37	ug/L	92
131) 1,2-dibromo-3-chloropropan	19.38	75	45312	204.13	ug/L	99
132) 1,3,5-trichlorobenzene	19.54	180	378956	199.23	ug/L	99
133) hexachlorobutadiene	20.26	225	182534	196.62	ug/L	98
134) naphthalene	20.43	128	579206	219.36	ug/L	99
135) 1,2,4-trichlorobenzene	20.15	180	323027	221.67	ug/L	100
136) 1,2,3-trichlorobenzene	20.67	180	265172	222.55	ug/L	99
137) hexachloroethane	18.86	201	181336	228.50	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
X106953.D MX4516.M Tue Sep 14 15:05:31 2010 MSX

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4516\X106951.D Vial: 9  
 Acq On : 14 Sep 2010 1:14 pm Operator: JUNTAEP  
 Sample : ICV4516-50 Inst : MSX  
 Misc : MS1864,vx4516,5.0,,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Sep 14 15:09:40 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Tue Sep 14 15:09:00 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.37	65	55222	500.00	ug/L	0.00
6) pentafluorobenzene	10.06	168	127189	50.00	ug/L	0.00
60) 1,4-difluorobenzene	11.22	114	199834	50.00	ug/L	0.00
91) chlorobenzene-d5	15.43	117	185630	50.00	ug/L	0.00
106) 1,4-dichlorobenzene-d4	18.21	152	85018	50.00	ug/L	0.00

System Monitoring Compounds						
52) dibromofluoromethane (s)	10.12	113	52156	47.98	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	95.96%
53) 1,2-dichloroethane-d4 (s)	10.65	65	57804	48.26	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	96.52%
83) toluene-d8 (s)	13.41	98	204791	47.01	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	94.02%
108) 4-bromofluorobenzene (s)	16.93	95	79022	47.34	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	94.68%

Target Compounds				Qvalue		
2) tertiary butyl alcohol	7.50	59	31250	236.32	ug/L	97
4) acrolein	6.42	56	106908	494.53	ug/L #	100
5) 1,4-dioxane	12.17	88	11679	1029.09	ug/L #	96
12) chlorodifluoromethane	3.81	51	60613	51.04	ug/L	97
13) dichlorodifluoromethane	3.79	85	90424	51.56	ug/L	100
16) chloromethane	4.12	50	120397	49.67	ug/L	99
17) vinyl chloride	4.38	62	96022	51.21	ug/L	99
19) bromomethane	5.04	94	53886	46.80	ug/L	98
20) chloroethane	5.22	64	49454	49.59	ug/L	98
21) trichlorofluoromethane	5.66	101	97677	50.17	ug/L	99
22) ethyl ether	6.13	74	32107	53.99	ug/L	97
26) 1,1-dichloroethene	6.58	96	53616	47.77	ug/L	100
27) acetone	6.66	58	4210	47.44	ug/L #	83
28) allyl chloride	7.18	76	35164	50.25	ug/L	99
29) acetonitrile	7.17	40	46771	481.70	ug/L #	74
30) iodomethane	6.88	142	107100	51.87	ug/L	98
31) iso-butyl alcohol	10.38	74	7369	525.46	ug/L	100
32) carbon disulfide	7.02	76	220217	49.70	ug/L	100
33) methylene chloride	7.40	84	61566	47.05	ug/L	99
34) methyl acetate	7.16	74	7901	52.15	ug/L	99
35) methyl tert butyl ether	7.75	73	167064	50.85	ug/L	100
36) trans-1,2-dichloroethene	7.82	96	57539	46.08	ug/L	98
37) di-isopropyl ether	8.45	45	211245	49.02	ug/L	98
38) 2-butanone	9.37	72	5899	53.44	ug/L	44
39) 1,1-dichloroethane	8.49	63	112083	49.75	ug/L	98
40) chloroprene	8.61	53	78178	49.40	ug/L	99
41) acrylonitrile	7.78	53	87320	261.32	ug/L	97
42) vinyl acetate	8.48	86	6184	53.30	ug/L	71
43) ethyl tert-butyl ether	9.02	59	193749	50.86	ug/L	100
44) ethyl acetate	9.39	70	5575	52.03	ug/L	87
45) 2,2-dichloropropane	9.38	77	94148	49.04	ug/L	98
46) cis-1,2-dichloroethene	9.40	96	63336	47.45	ug/L	100
47) propionitrile	9.51	54	69001	518.68	ug/L	97

(#) = qualifier out of range (m) = manual integration

X106951.D MX4516.M Tue Sep 14 17:07:15 2010 MSX

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4516\X106951.D Vial: 9  
 Acq On : 14 Sep 2010 1:14 pm Operator: JUNTAEP  
 Sample : ICV4516-50 Inst : MSX  
 Misc : MS1864,vx4516,5.0,,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Sep 14 15:09:40 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Tue Sep 14 15:09:00 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) tert-Butyl Formate	9.89	59	50504	53.38	ug/L	100
49) bromochloromethane	9.79	128	29251	52.17	ug/L	95
50) tetrahydrofuran	9.82	42	18954	50.70	ug/L	99
51) chloroform	9.87	83	101876	49.43	ug/L	99
54) freon 113	6.56	151	41507	47.24	ug/L	94
55) methacrylonitrile	9.72	41	33963	49.07	ug/L	97
56) 1,1,1-trichloroethane	10.16	97	88350	50.85	ug/L	99
57) cyclohexane	10.23	84	87384	51.32	ug/L	98
59) iso-octane	10.71	57	219659	47.61	ug/L	99
62) epichlorohydrin	12.76	57	22377	249.38	ug/L	99
63) n-butyl alcohol	11.43	56	80865	2583.12	ug/L	97
64) carbon tetrachloride	10.40	117	76744	49.18	ug/L	100
65) 1,1-dichloropropene	10.38	75	81433	48.20	ug/L	99
66) hexane	8.16	86	10452	47.77	ug/L	97
67) benzene	10.72	78	222454	45.45	ug/L	99
68) tert-amyl methyl ether	10.77	73	155149	46.36	ug/L	100
69) heptane	10.95	57	45167	46.75	ug/L	98
70) isopropyl acetate	10.66	43	133340	47.57	ug/L	97
71) 1,2-dichloroethane	10.76	62	65283	48.27	ug/L	99
72) trichloroethene	11.65	130	61946	49.60	ug/L	98
76) 2-chloroethyl vinyl ether	12.76	63	112077	251.72	ug/L	99
77) methyl methacrylate	12.05	69	33865	50.61	ug/L	89
78) 1,2-dichloropropane	12.02	63	65602	49.76	ug/L	99
79) dibromomethane	12.23	93	33668	51.34	ug/L	99
80) methylcyclohexane	11.92	83	100635	49.09	ug/L	99
81) bromodichloromethane	12.42	83	81013	49.55	ug/L	98
82) cis-1,3-dichloropropene	13.04	75	107229	49.38	ug/L	98
84) 4-methyl-2-pentanone	13.18	58	22064	53.91	ug/L	97
85) toluene	13.51	92	146144	45.30	ug/L	99
86) 3-methyl-1-butanol	13.23	55	50502	975.37	ug/L	99
87) trans-1,3-dichloropropene	13.80	75	91678	48.72	ug/L	99
88) ethyl methacrylate	13.81	69	69084	48.79	ug/L	98
89) 1,1,2-trichloroethane	14.09	83	43111	49.78	ug/L	98
90) 2-hexanone	14.34	58	19286	50.36	ug/L	98
92) 3,3-Dimethyl-1-butanol	14.58	57	53425	498.47	ug/L	99
93) tetrachloroethene	14.28	164	52441	48.22	ug/L	99
94) 1,3-dichloropropane	14.33	76	80856	47.68	ug/L	98
95) butyl acetate	14.45	56	36000	47.48	ug/L	99
96) dibromochloromethane	14.67	129	60521	49.26	ug/L	100
97) 1,2-dibromoethane	14.86	107	51247	50.17	ug/L	98
99) chlorobenzene	15.47	112	159235	48.50	ug/L	100
100) 1,1,1,2-tetrachloroethane	15.57	131	56158	48.56	ug/L	97
101) ethylbenzene	15.55	91	266586	45.95	ug/L	99
102) m,p-xylene	15.70	106	203036	90.37	ug/L	98
103) o-xylene	16.24	106	110857	47.23	ug/L	97
104) styrene	16.26	104	172702	45.92	ug/L	98
105) bromoform	16.60	173	41232	51.30	ug/L	99
107) isopropylbenzene	16.68	105	278809	47.62	ug/L	99
109) bromobenzene	17.14	156	67363	47.92	ug/L	97

(#) = qualifier out of range (m) = manual integration

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4516\X106951.D Vial: 9  
 Acq On : 14 Sep 2010 1:14 pm Operator: JUNTAEP  
 Sample : ICV4516-50 Inst : MSX  
 Misc : MS1864,vx4516,5.0,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Sep 14 15:09:40 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Tue Sep 14 15:09:00 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
110) 1,1,2,2-tetrachloroethane	17.08	83	66089	50.87	ug/L	97
111) trans-1,4-dichloro-2-buten	17.13	53	19380	53.04	ug/L	99
112) 1,2,3-trichloropropane	17.15	110	14167	50.66	ug/L #	85
113) n-propylbenzene	17.17	91	308455	45.27	ug/L	99
115) 2-chlorotoluene	17.33	126	66746	48.43	ug/L	99
116) 4-chlorotoluene	17.44	91	198709	45.90	ug/L	99
117) 1,3,5-trimethylbenzene	17.35	105	217124	46.04	ug/L	99
118) tert-butylbenzene	17.72	119	199707	47.90	ug/L	98
119) pentachloroethane	17.82	167	39274	50.50	ug/L	100
120) 1,2,4-trimethylbenzene	17.77	105	223903	45.62	ug/L	99
122) sec-butylbenzene	17.95	105	299031	47.89	ug/L	100
123) 1,3-dichlorobenzene	18.15	146	125040	46.50	ug/L	99
124) p-isopropyltoluene	18.08	119	246322	48.10	ug/L	100
125) 1,4-dichlorobenzene	18.23	146	121822	47.74	ug/L	100
126) 1,2-dichlorobenzene	18.62	146	120119	48.94	ug/L	98
127) benzyl chloride	18.35	91	124821	48.95	ug/L	100
129) n-butylbenzene	18.50	92	136097	49.63	ug/L	99
131) 1,2-dibromo-3-chloropropan	19.38	75	11696	49.95	ug/L	98
132) 1,3,5-trichlorobenzene	19.54	180	103645	51.53	ug/L	99
133) hexachlorobutadiene	20.25	225	48057	49.35	ug/L	96
134) naphthalene	20.43	128	158638	55.73	ug/L	100
135) 1,2,4-trichlorobenzene	20.15	180	85930	54.57	ug/L	97
136) 1,2,3-trichlorobenzene	20.67	180	71713	55.54	ug/L	99
137) hexachloroethane	18.86	201	44781	50.50	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X106951.D MX4516.M Tue Sep 14 17:07:16 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4516\X106951.D

Vial: 9

Acq On : 14 Sep 2010 1:14 pm

Operator: JUNTAEF

Sample : ICV4516-50

Inst : MSX

Misc : MS1864,vx4516,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 15:11 2010

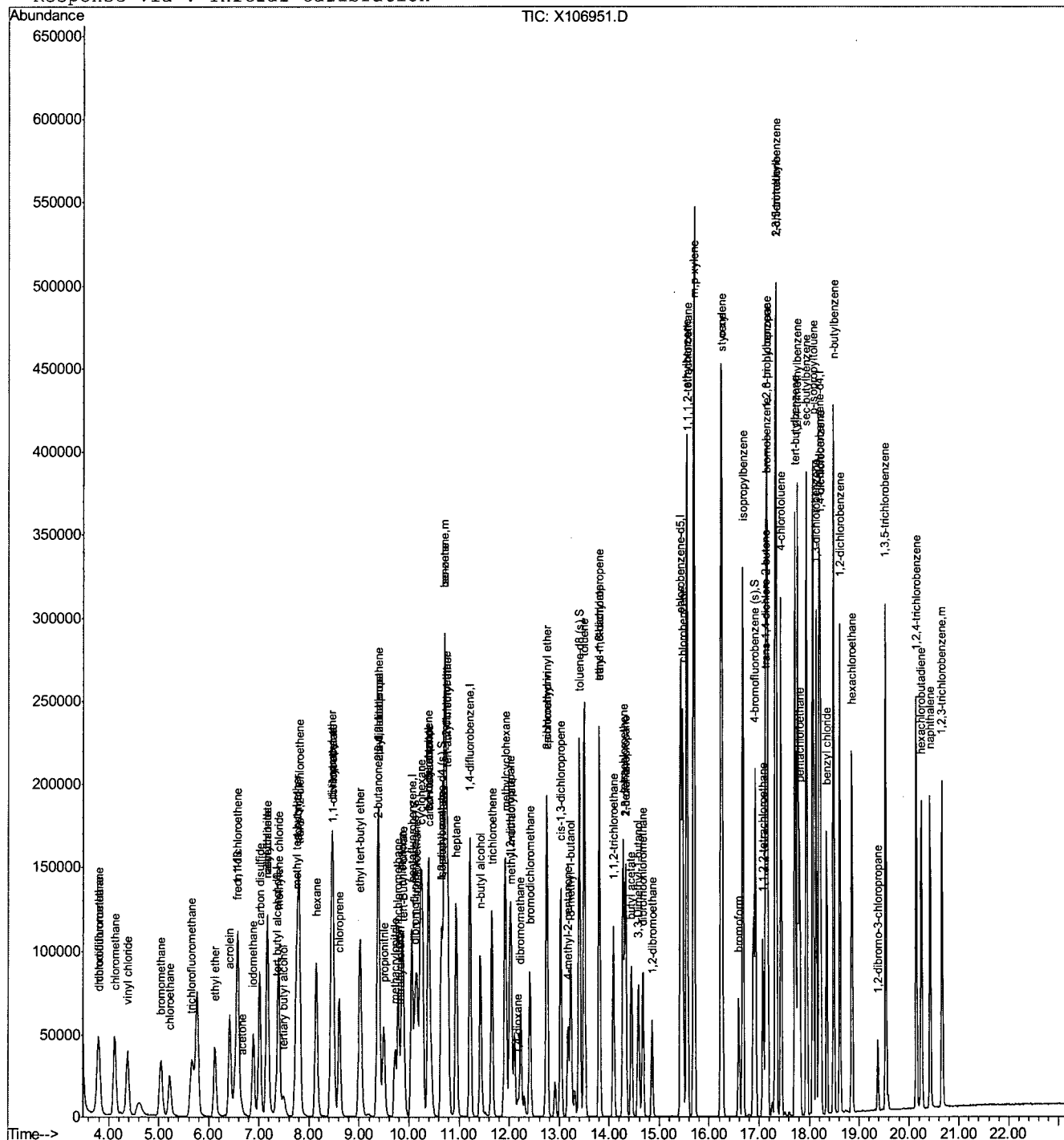
Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Sep 14 15:09:00 2010

Response via : Initial Calibration



X106951.D    MX4516.M

Tue Sep 14 17:07:17 2010

MSX

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### 6.6.21

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDDATA\VX4574\X108247.D Vial: 7  
 Acq On : 23 Oct 2010 11:49 am Operator: JUNTAEP  
 Sample : icv4516-50 Inst : MSX  
 Misc : MS3510,vx4574,5.0,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Nov 03 12:01:09 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

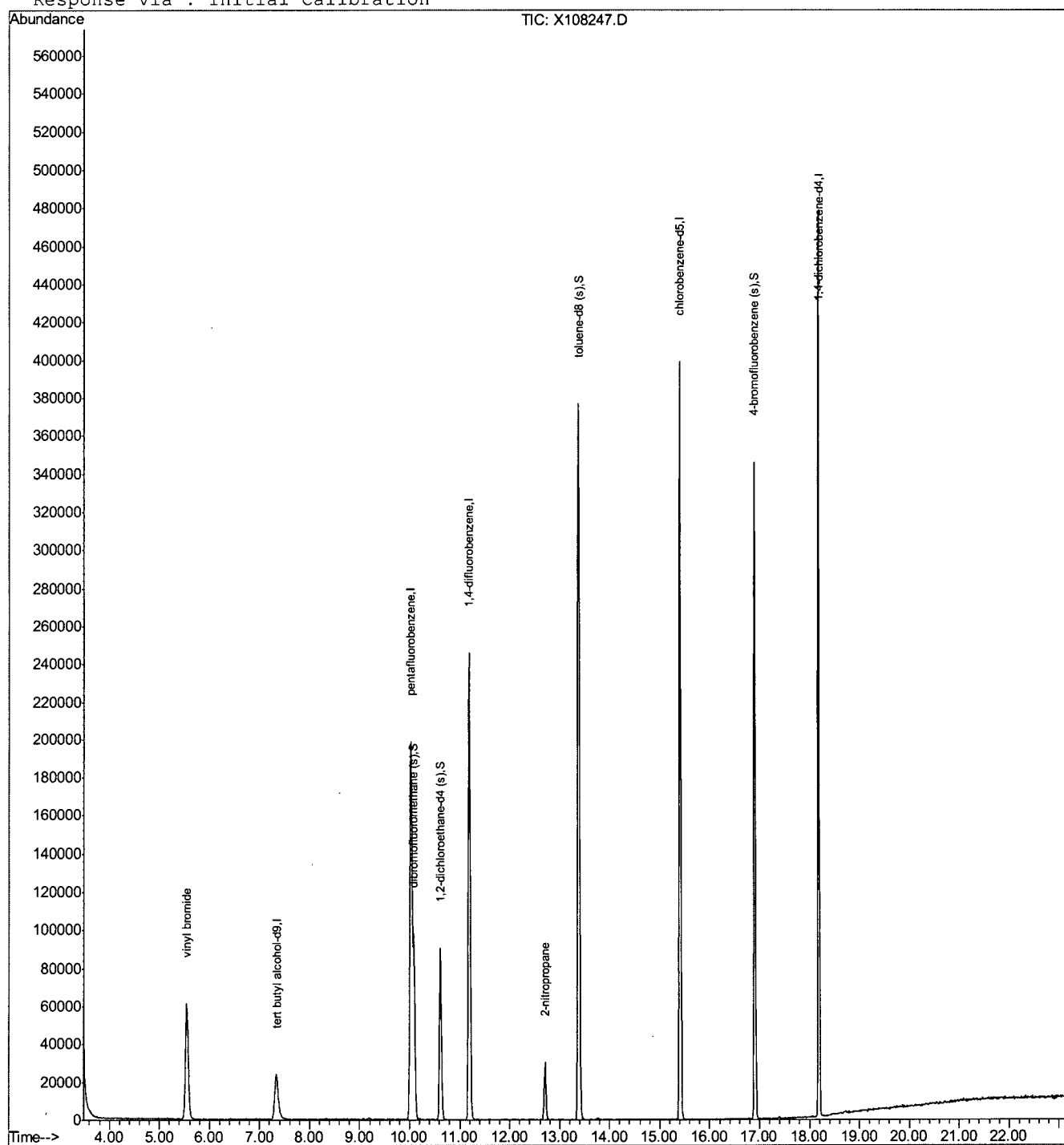
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.34	65	68064	500.00	ug/L	-0.03
6) pentafluorobenzene	10.03	168	216053	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	287937	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.41	117	273305	50.00	ug/L	-0.03
107) 1,4-dichlorobenzene-d4	18.19	152	124911	50.00	ug/L	-0.02
System Monitoring Compounds						
53) dibromofluoromethane (s)	10.09	113	81713	44.25	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	88.50%	
54) 1,2-dichloroethane-d4 (s)	10.62	65	93739	46.07	ug/L	-0.03
Spiked Amount	50.000	Range 65 - 132	Recovery	=	92.14%	
84) toluene-d8 (s)	13.38	98	342662	54.59	ug/L	-0.03
Spiked Amount	50.000	Range 74 - 129	Recovery	=	109.18%	
109) 4-bromofluorobenzene (s)	16.91	95	137154	55.92	ug/L	-0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	111.84%	
Target Compounds						
21) vinyl bromide	5.55	106	94690	48.00	ug/L #	95
76) 2-nitropropane	12.71	46	1227	54.09	ug/L #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X108247.D MX4516.M Wed Nov 03 12:02:24 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDDATA\VX4574\X108247.D Vial: 7  
Acq On : 23 Oct 2010 11:49 am Operator: JUNTAEP  
Sample : icv4516-50 Inst : MSX  
Misc : MS3510,vx4574,5.0,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Nov 3 12:02 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108253.D Vial: 13  
 Acq On : 23 Oct 2010 3:24 pm Operator: JUNTAEP  
 Sample : cc4516-20 Inst : MSX  
 Misc : MS3510,vx4573,5.0,,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:37:30 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.33	65	79116	500.00	ug/L	-0.03
6) pentafluorobenzene	10.04	168	194387	50.00	ug/L	-0.02
61) 1,4-difluorobenzene	11.20	114	266346	50.00	ug/L	-0.03
92) chlorobenzene-d5	15.42	117	257817	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.19	152	127825	50.00	ug/L	-0.02

## System Monitoring Compounds

53) dibromofluoromethane (s)	10.09	113	79129	47.63	ug/L	-0.03
Spiked Amount	50.000	Range	67 - 127	Recovery	=	95.26%
54) 1,2-dichloroethane-d4 (s)	10.62	65	91228	49.84	ug/L	-0.03
Spiked Amount	50.000	Range	65 - 132	Recovery	=	99.68%
84) toluene-d8 (s)	13.39	98	311363	53.62	ug/L	-0.02
Spiked Amount	50.000	Range	74 - 129	Recovery	=	107.24%
109) 4-bromofluorobenzene (s)	16.91	95	135141	53.85	ug/L	-0.01
Spiked Amount	50.000	Range	62 - 138	Recovery	=	107.70%

## Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) tertiary butyl alcohol	7.48	59	21578	113.90	ug/L	93
4) acrolein	6.40	56	51882	167.51	ug/L	# 99
5) 1,4-dioxane	12.16	88	8049	554.61	ug/L	# 92
12) chlorodifluoromethane	3.79	51	29616	16.32	ug/L	93
13) dichlorodifluoromethane	3.77	85	67627	25.23	ug/L	98
16) chloromethane	4.10	50	68628	18.52	ug/L	97
17) vinyl chloride	4.36	62	53301	18.60	ug/L	97
19) bromomethane	5.02	94	31741	18.04	ug/L	95
20) chloroethane	5.20	64	29373	19.27	ug/L	95
21) vinyl bromide	5.56	106	38000	21.41	ug/L	# 96
22) trichlorofluoromethane	5.64	101	69231	23.27	ug/L	99
23) ethyl ether	6.10	74	19549	21.51	ug/L	92
27) 1,1-dichloroethene	6.56	96	30921	18.03	ug/L	99
28) acetone	6.64	58	2654	18.21	ug/L	91
29) allyl chloride	7.15	76	20330	19.01	ug/L	# 92
30) acetonitrile	7.13	40	27745	186.97	ug/L	# 80
31) iodomethane	6.87	142	67900	21.51	ug/L	94
32) iso-butyl alcohol	10.36	74	3445	184.34	ug/L	100
33) carbon disulfide	6.99	76	124233	18.34	ug/L	96
34) methylene chloride	7.37	84	38723	19.36	ug/L	99
35) methyl acetate	7.14	74	4588	19.81	ug/L	# 86
36) methyl tert butyl ether	7.73	73	206789	41.18	ug/L	98
37) trans-1,2-dichloroethene	7.79	96	33764	17.69	ug/L	99
38) di-isopropyl ether	8.43	45	135715	20.61	ug/L	96
39) 2-butanone	9.34	72	3739	21.46	ug/L	64
40) 1,1-dichloroethane	8.46	63	67120	19.49	ug/L	98
41) chloroprene	8.58	53	54472	22.52	ug/L	97
42) acrylonitrile	7.76	53	51893	101.61	ug/L	98
43) vinyl acetate	8.45	86	5043	28.44	ug/L	68
44) ethyl tert-butyl ether	9.01	59	130444	22.40	ug/L	99
45) ethyl acetate	9.36	70	3934	24.02	ug/L	29
46) 2,2-dichloropropane	9.36	77	53060	18.08	ug/L	96
47) cis-1,2-dichloroethene	9.37	96	39382	19.30	ug/L	100

(#) = qualifier out of range (m) = manual integration

X108253.D MX4516.M Mon Oct 25 16:43:10 2010 MSX

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\WX4575-4576\X108253.D Vial: 13  
 Acq On : 23 Oct 2010 3:24 pm Operator: JUNTAEP  
 Sample : cc4516-20 Inst : MSX  
 Misc : MS3510,vx4573,5.0,,,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:37:30 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) propionitrile	9.48	54	42271	207.91	ug/L	85
49) tert-Butyl Formate	9.87	59	27538	19.04	ug/L #	84
50) bromochloromethane	9.76	128	18725	21.85	ug/L	96
51) tetrahydrofuran	9.80	42	10870	19.03	ug/L	94
52) chloroform	9.84	83	64691	20.54	ug/L	97
55) freon 113	6.53	151	28619	21.31	ug/L	90
56) methacrylonitrile	9.70	41	20159	19.06	ug/L	96
57) 1,1,1-trichloroethane	10.14	97	51902	19.55	ug/L	97
58) cyclohexane	10.22	84	46972	18.05	ug/L	89
60) iso-octane	10.69	57	154298	21.88	ug/L	96
63) epichlorohydrin	12.74	57	10587	88.52	ug/L	85
64) n-butyl alcohol	11.41	56	50967	1221.51	ug/L	99
65) carbon tetrachloride	10.38	117	48578	23.36	ug/L	98
66) 1,1-dichloropropene	10.36	75	46608	20.70	ug/L	98
67) hexane	8.13	86	6055	20.76	ug/L #	80
68) benzene	10.70	78	130730	20.04	ug/L	98
69) tert-amyl methyl ether	10.75	73	100788	22.59	ug/L	97
70) heptane	10.93	57	29098	22.60	ug/L	93
71) isopropyl acetate	10.63	43	97843	26.19	ug/L	99
72) 1,2-dichloroethane	10.73	62	45380	25.17	ug/L	99
73) trichloroethene	11.63	130	37030	22.25	ug/L	95
76) 2-nitropropane	12.72	46	959	46.58	ug/L #	1
77) 2-chloroethyl vinyl ether	12.74	63	55333	93.24	ug/L	98
78) methyl methacrylate	12.03	69	20173	22.62	ug/L	95
79) 1,2-dichloropropane	12.00	63	37819	21.52	ug/L	100
80) dibromomethane	12.21	93	22083	25.27	ug/L	98
81) methylcyclohexane	11.91	83	61758	22.60	ug/L	95
82) bromodichloromethane	12.40	83	51683	23.72	ug/L	95
83) cis-1,3-dichloropropene	13.01	75	66488	22.97	ug/L	95
85) 4-methyl-2-pentanone	13.16	58	13581	24.90	ug/L	98
86) toluene	13.49	92	85472	19.88	ug/L	99
87) 3-methyl-1-butanol	13.22	55	34463	499.39	ug/L	92
88) trans-1,3-dichloropropene	13.78	75	58091	23.16	ug/L	98
89) ethyl methacrylate	13.79	69	42449	22.49	ug/L	98
90) 1,1,2-trichloroethane	14.07	83	27433	23.77	ug/L	98
91) 2-hexanone	14.32	58	11773	23.06	ug/L	98
93) 3,3-Dimethyl-1-butanol	14.57	57	34348	230.74	ug/L	99
94) tetrachloroethene	14.27	164	32045	21.22	ug/L	96
95) 1,3-dichloropropane	14.31	76	50941	21.63	ug/L	92
96) butyl acetate	14.43	56	23959	22.75	ug/L	99
97) dibromochloromethane	14.66	129	39266	23.01	ug/L	96
98) 1,2-dibromoethane	14.85	107	32647	23.01	ug/L	98
100) chlorobenzene	15.46	112	96585	21.18	ug/L	99
101) 1,1,1,2-tetrachloroethane	15.55	131	36937	23.00	ug/L	98
102) ethylbenzene	15.54	91	162310	20.14	ug/L	98
103) m,p-xylene	15.68	106	125943	40.36	ug/L	98
104) o-xylene	16.23	106	68443	21.00	ug/L	96
105) styrene	16.25	104	109321	20.93	ug/L	98
106) bromoform	16.58	173	28168	25.23	ug/L	98

(#) = qualifier out of range (m) = manual integration

X108253.D MX4516.M Mon Oct 25 16:43:10 2010 MSX

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## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108253.D Vial: 13  
 Acq On : 23 Oct 2010 3:24 pm Operator: JUNTAEP  
 Sample : cc4516-20 Inst : MSX  
 Misc : MS3510,vx4573,5.0,,,1 Multiplr: 1.00  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 16:37:30 2010 Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

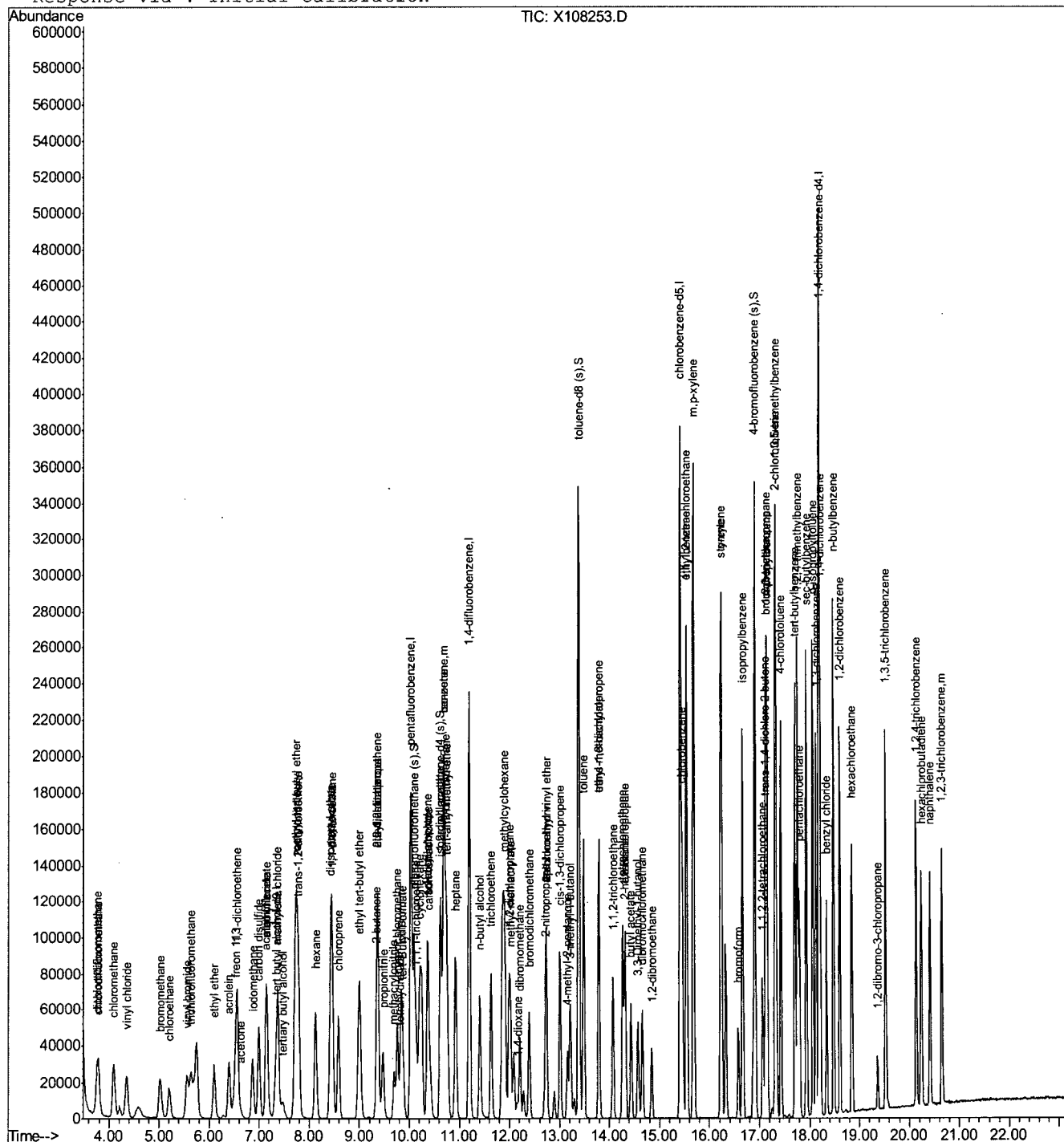
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
108) isopropylbenzene	16.67	105	173030	19.66	ug/L	99
110) bromobenzene	17.13	156	45801	21.67	ug/L	97
111) 1,1,2,2-tetrachloroethane	17.06	83	43844	22.45	ug/L	99
112) trans-1,4-dichloro-2-buten	17.11	53	13267	24.15	ug/L	87
113) 1,2,3-trichloropropane	17.14	110	9723	23.13	ug/L	96
114) n-propylbenzene	17.16	91	194629	19.00	ug/L	99
116) 2-chlorotoluene	17.31	126	43389	20.94	ug/L	96
117) 4-chlorotoluene	17.43	91	135536	20.82	ug/L	97
118) 1,3,5-trimethylbenzene	17.33	105	144691	20.41	ug/L	99
119) tert-butylbenzene	17.71	119	129046	20.59	ug/L	96
120) pentachloroethane	17.80	167	28080	24.02	ug/L	99
121) 1,2,4-trimethylbenzene	17.76	105	153343	20.78	ug/L	100
123) sec-butylbenzene	17.94	105	193324	20.59	ug/L	99
124) 1,3-dichlorobenzene	18.14	146	86934	21.50	ug/L	99
125) p-isopropyltoluene	18.07	119	160386	20.83	ug/L	97
126) 1,4-dichlorobenzene	18.22	146	82569	21.52	ug/L	99
127) 1,2-dichlorobenzene	18.61	146	83867	22.73	ug/L	99
128) benzyl chloride	18.34	91	83377	21.75	ug/L	99
130) n-butylbenzene	18.49	92	89586	21.73	ug/L	100
132) 1,2-dibromo-3-chloropropan	19.36	75	8651	24.57	ug/L	85
133) 1,3,5-trichlorobenzene	19.53	180	70056	23.17	ug/L	99
134) hexachlorobutadiene	20.24	225	34862	23.81	ug/L	99
135) naphthalene	20.42	128	105172	24.57	ug/L	99
136) 1,2,4-trichlorobenzene	20.14	180	59121	24.97	ug/L	95
137) 1,2,3-trichlorobenzene	20.66	180	50085	25.80	ug/L	99
138) hexachloroethane	18.85	201	29860	22.40	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X108253.D MX4516.M Mon Oct 25 16:43:10 2010 MSX

## Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4575-4576\X108253.D Vial: 13  
Acq On : 23 Oct 2010 3:24 pm Operator: JUNTAEP  
Sample : cc4516-20 Inst : MSX  
Misc : MS3510,vx4573,5.0,,,,,1 Multiplr: 1.00  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 16:43 2010 Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Mon Oct 25 16:35:25 2010  
Response via : Initial Calibration



## Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\X108300.D

Vial: 2

Acq On : 25 Oct 2010 1:00 pm

Operator: JUNTAEP

Sample : cc4516-20

Inst : MSX

Misc : MS3780,vx4577,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Oct 25 13:23:53 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Sat Oct 23 13:53:46 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.34	65	62973	500.00	ug/L	-0.03
6) pentafluorobenzene	10.04	168	123238	50.00	ug/L	-0.01
61) 1,4-difluorobenzene	11.20	114	182182	50.00	ug/L	-0.02
92) chlorobenzene-d5	15.42	117	182079	50.00	ug/L	-0.02
107) 1,4-dichlorobenzene-d4	18.20	152	85639	50.00	ug/L	0.00

## System Monitoring Compounds

53) dibromofluoromethane (s)	10.10	113	55417	52.61	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	105.22%
54) 1,2-dichloroethane-d4 (s)	10.63	65	68986	59.44	ug/L	-0.02
Spiked Amount	50.000	Range	65 - 132	Recovery	=	118.88%
84) toluene-d8 (s)	13.40	98	221629	55.80	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	111.60%
109) 4-bromofluorobenzene (s)	16.92	95	95033	56.52	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	113.04%

## Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.48	59	15256	101.17	ug/L	88
4) acrolein	6.40	56	42679	173.12	ug/L #	99
5) 1,4-dioxane	12.17	88	5334	480.97	ug/L #	91
12) chlorodifluoromethane	3.80	51	21709	18.87	ug/L	89
13) dichlorodifluoromethane	3.78	85	40395	23.77	ug/L	99
16) chloromethane	4.11	50	44842	19.09	ug/L	97
17) vinyl chloride	4.36	62	33326	18.34	ug/L	99
19) bromomethane	5.04	94	19418	17.41	ug/L	91
20) chloroethane	5.21	64	16068	16.63	ug/L	98
21) vinyl bromide	5.57	106	19894	17.68	ug/L #	94
22) trichlorofluoromethane	5.65	101	42508	22.53	ug/L	91
23) ethyl ether	6.10	74	12842	22.29	ug/L	94
27) 1,1-dichloroethene	6.57	96	20542	18.89	ug/L	98
28) acetone	6.63	58	1872	20.52	ug/L	88
29) allyl chloride	7.16	76	13385	19.74	ug/L #	82
30) acetonitrile	7.15	40	21411	227.58	ug/L	88
31) iodomethane	6.87	142	39019	19.50	ug/L	92
32) iso-butyl alcohol	10.38	74	2392	198.65	ug/L	100
33) carbon disulfide	7.00	76	80792	18.82	ug/L	95
34) methylene chloride	7.38	84	24543	19.36	ug/L	97
35) methyl acetate	7.14	74	3071	20.92	ug/L	93
36) methyl tert butyl ether	7.74	73	136700	42.94	ug/L	100
37) trans-1,2-dichloroethene	7.79	96	20521	16.96	ug/L	84
38) di-isopropyl ether	8.44	45	92573	22.17	ug/L	93
39) 2-butanone	9.35	72	2414	21.88	ug/L	45
40) 1,1-dichloroethane	8.47	63	45797	20.98	ug/L	99
41) chloroprene	8.59	53	35147	22.92	ug/L	95
42) acrylonitrile	7.77	53	38525	118.99	ug/L	96
43) vinyl acetate	8.46	86	3507	31.19	ug/L	88
44) ethyl tert-butyl ether	9.01	59	84747	22.96	ug/L	97
45) ethyl acetate	9.37	70	2605	25.09	ug/L	40
46) 2,2-dichloropropane	9.37	77	38423	20.65	ug/L	95
47) cis-1,2-dichloroethene	9.38	96	23868	18.45	ug/L	94

(# ) = qualifier out of range (m) = manual integration

X108300.D MX4516.M

Mon Oct 25 13:44:14 2010

MSX

Page 1

## Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\X108300.D  
 Acq On : 25 Oct 2010 1:00 pm  
 Sample : cc4516-20  
 Misc : MS3780,vx4577,5.0,,,,,1  
 MS Integration Params: Rteint.p  
 Quant Time: Oct 25 13:23:53 2010

Vial: 2  
 Operator: JUNTAEP  
 Inst : MSX  
 Multiplr: 1.00

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 Last Update : Sat Oct 23 13:53:46 2010  
 Response via : Initial Calibration  
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) propionitrile	9.49	54	31093	241.22	ug/L	93
49) tert-Butyl Formate	9.88	59	18986	20.71	ug/L #	85
50) bromochloromethane	9.77	128	11098	20.43	ug/L	91
51) tetrahydrofuran	9.81	42	8889	24.54	ug/L	96
52) chloroform	9.85	83	41468	20.76	ug/L	98
55) freon 113	6.55	151	15575	18.29	ug/L	92
56) methacrylonitrile	9.70	41	14887	22.20	ug/L	95
57) 1,1,1-trichloroethane	10.14	97	34549	20.52	ug/L	95
58) cyclohexane	10.22	84	31750	19.24	ug/L	90
60) iso-octane	10.69	57	93383	20.89	ug/L	94
63) epichlorohydrin	12.75	57	8337	101.91	ug/L	92
64) n-butyl alcohol	11.41	56	36810	1289.77	ug/L	96
65) carbon tetrachloride	10.39	117	31635	22.24	ug/L	98
66) 1,1-dichloropropene	10.37	75	31321	20.33	ug/L	96
67) hexane	8.14	86	3115	15.62	ug/L #	94
68) benzene	10.70	78	85676	19.20	ug/L	98
69) tert-amyl methyl ether	10.76	73	66754	21.88	ug/L	97
70) heptane	10.93	57	17248	19.58	ug/L	99
71) isopropyl acetate	10.65	43	66874	26.17	ug/L	98
72) 1,2-dichloroethane	10.74	62	31590	25.62	ug/L	98
73) trichloroethene	11.64	130	22301	19.59	ug/L	95
76) 2-nitropropane	12.71	46	231	20.06	ug/L #	1
77) 2-chloroethyl vinyl ether	12.74	63	42994	105.92	ug/L	97
78) methyl methacrylate	12.04	69	14728	24.14	ug/L	97
79) 1,2-dichloropropane	12.01	63	25928	21.57	ug/L	96
80) dibromomethane	12.22	93	13731	22.97	ug/L	96
81) methylcyclohexane	11.92	83	36781	19.68	ug/L	92
82) bromodichloromethane	12.41	83	33330	22.36	ug/L	97
83) cis-1,3-dichloropropene	13.02	75	44241	22.35	ug/L	93
85) 4-methyl-2-pentanone	13.17	58	9981	26.75	ug/L	98
86) toluene	13.50	92	54916	18.67	ug/L	95
87) 3-methyl-1-butanol	13.22	55	24493	518.88	ug/L	97
88) trans-1,3-dichloropropene	13.79	75	39160	22.83	ug/L	97
89) ethyl methacrylate	13.80	69	29323	22.71	ug/L	92
90) 1,1,2-trichloroethane	14.08	83	17487	22.15	ug/L	95
91) 2-hexanone	14.33	58	8855	25.36	ug/L	96
93) 3,3-Dimethyl-1-butanol	14.57	57	23800	226.39	ug/L #	99
94) tetrachloroethene	14.28	164	19194	17.99	ug/L	93
95) 1,3-dichloropropane	14.32	76	35269	21.20	ug/L	91
96) butyl acetate	14.43	56	17352	23.33	ug/L	90
97) dibromochloromethane	14.66	129	24709	20.50	ug/L	99
98) 1,2-dibromoethane	14.85	107	20987	20.94	ug/L	99
100) chlorobenzene	15.46	112	61359	19.05	ug/L	94
101) 1,1,1,2-tetrachloroethane	15.55	131	23394	20.62	ug/L	97
102) ethylbenzene	15.55	91	107917	18.96	ug/L	96
103) m,p-xylene	15.69	106	81167	36.83	ug/L	91
104) o-xylene	16.23	106	43269	18.79	ug/L	86
105) styrene	16.25	104	69343	18.80	ug/L	89
106) bromoform	16.59	173	17016	21.58	ug/L	97

(#) = qualifier out of range (m) = manual integration

X108300.D MX4516.M Mon Oct 25 13:44:14 2010 MSX

Page 2



## Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\X108300.D

Vial: 2

Acq On : 25 Oct 2010 1:00 pm

Operator: JUNTAEP

Sample : cc4516-20

Inst : MSX

Misc : MS3780,vx4577,5.0,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Oct 25 13:23:53 2010

Quant Results File: MX4516.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)

Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Sat Oct 23 13:53:46 2010

Response via : Initial Calibration

DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
108) isopropylbenzene	16.67	105	113513	19.25	ug/L	98
110) bromobenzene	17.14	156	27852	19.67	ug/L	91
111) 1,1,2,2-tetrachloroethane	17.07	83	29501	22.54	ug/L	95
112) trans-1,4-dichloro-2-buten	17.12	53	9796	26.62	ug/L #	82
113) 1,2,3-trichloropropane	17.14	110	6939	24.63	ug/L	97
114) n-propylbenzene	17.16	91	130689	19.04	ug/L	97
116) 2-chlorotoluene	17.43	126	26866	19.35	ug/L	87
117) 4-chlorotoluene	17.43	91	87751	20.12	ug/L	94
118) 1,3,5-trimethylbenzene	17.34	105	92946	19.57	ug/L	96
119) tert-butylbenzene	17.72	119	82108	19.55	ug/L	94
120) pentachloroethane	17.81	167	17317	22.11	ug/L	96
121) 1,2,4-trimethylbenzene	17.77	105	97647	19.75	ug/L	98
123) sec-butylbenzene	17.95	105	123873	19.70	ug/L	99
124) 1,3-dichlorobenzene	18.14	146	52954	19.55	ug/L	98
125) p-isopropyltoluene	18.08	119	101507	19.68	ug/L	96
126) 1,4-dichlorobenzene	18.22	146	49485	19.25	ug/L	97
127) 1,2-dichlorobenzene	18.62	146	49882	20.18	ug/L	97
128) benzyl chloride	18.35	91	60097	23.40	ug/L	96
130) n-butylbenzene	18.49	92	57323	20.75	ug/L	97
132) 1,2-dibromo-3-chloropropan	19.37	75	5795	24.57	ug/L	82
133) 1,3,5-trichlorobenzene	19.53	180	41020	20.25	ug/L	97
134) hexachlorobutadiene	20.25	225	20138	20.53	ug/L	100
135) naphthalene	20.42	128	64371	22.45	ug/L	97
136) 1,2,4-trichlorobenzene	20.15	180	33439	21.08	ug/L	97
137) 1,2,3-trichlorobenzene	20.66	180	28490	21.91	ug/L	99
138) hexachloroethane	18.85	201	18062	20.22	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 X108300.D MX4516.M Mon Oct 25 13:44:15 2010 MSX

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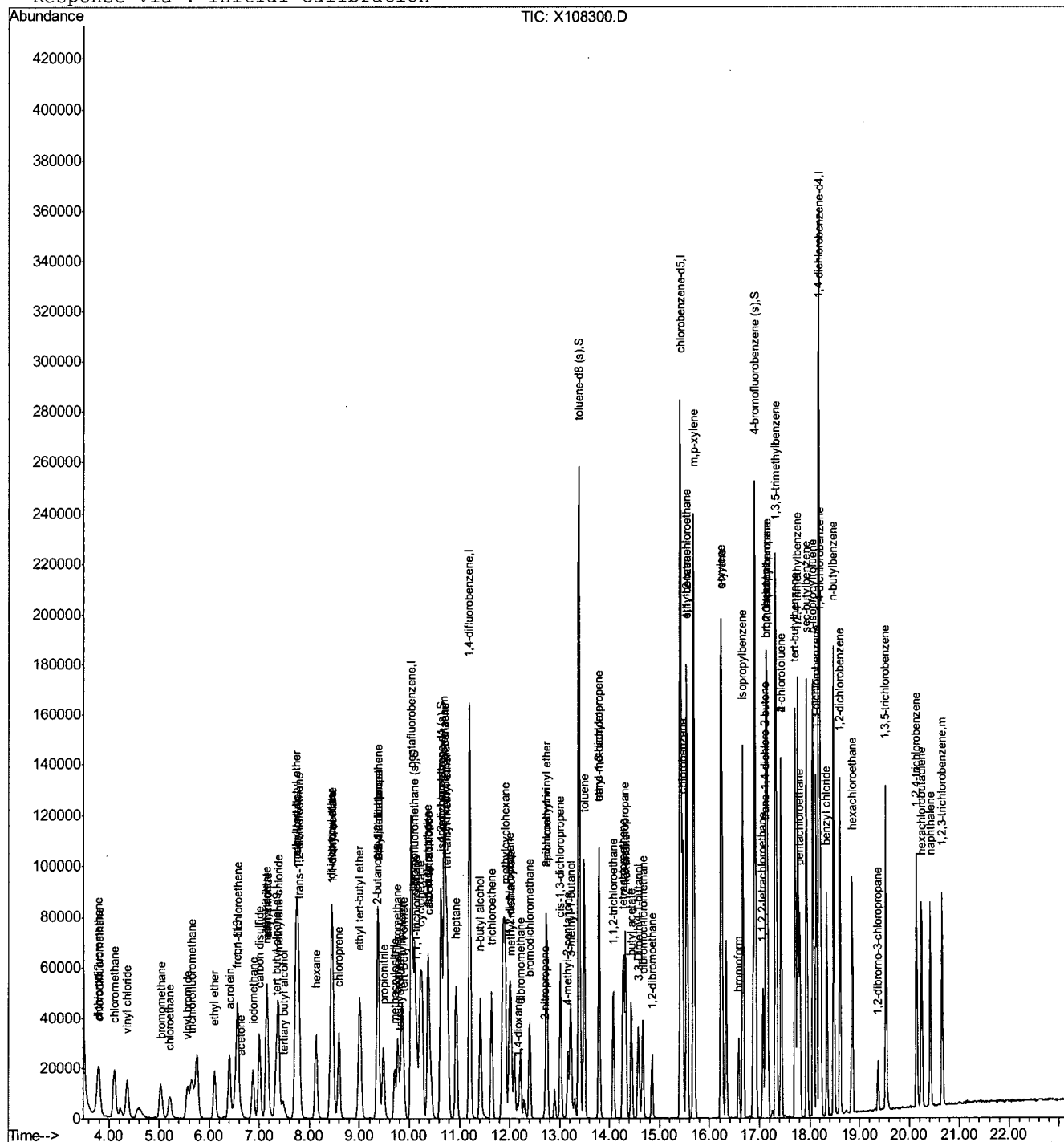
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\X108300.D  
Acq On : 25 Oct 2010 1:00 pm  
Sample : cc4516-20  
Misc : MS3780,vx4577,5.0,,,,,1  
MS Integration Params: Rteint.p  
Quant Time: Oct 25 13:23 2010

Vial: 2  
Operator: JUNTAEP  
Inst : MSX  
Multiplr: 1.00

Quant Results File: MX4516.RES

Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)  
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
Last Update : Sat Oct 23 13:53:46 2010  
Response via : Initial Calibration



### 6.6.24

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
 Data File : X108323.D  
 Acq On : 26 Oct 2010 12:39 am  
 Operator : JUNTAEP  
 Sample : cc4516-50  
 Misc : MS3790,vx4578,5.0,,,,,1  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 27 08:34:14 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
 Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 QLast Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration

Compound	R.T.	Q	Ion	Response	Conc	Units	Dev (Min)
-----							
Internal Standards							
1) tert butyl alcohol-d9	7.366	65		51295	500.00	ug/L	0.00
6) pentafluorobenzene	10.054	168		128104	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.221	114		190145	50.00	ug/L	0.00
92) chlorobenzene-d5	15.431	117		188412	50.00	ug/L	0.00
107) 1,4-dichlorobenzene-d4	18.203	152		84963	50.00	ug/L	0.00
System Monitoring Compounds							
53) dibromofluoromethane (s)	10.107	113		55278	50.49	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 127	Recovery	=	100.98%	
54) 1,2-dichloroethane-d4 (s)	10.640	65		68338	56.65	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	113.30%	
84) toluene-d8 (s)	13.402	98		233442	56.31	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	112.62%	
109) 4-bromofluorobenzene (s)	16.922	95		99521	59.66	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	119.32%	
Target Compounds							
							Qvalue
2) tertiary butyl alcohol	7.497	59		32475	264.39	ug/L	96
4) acrolein	6.409	56		100646	501.20	ug/L #	99
5) 1,4-dioxane	12.178	88		11353	1071.61	ug/L #	86
12) chlorodifluoromethane	3.804	51		49078	41.03	ug/L	95
13) dichlorodifluoromethane	3.773	85		95797	54.23	ug/L	97
16) chloromethane	4.113	50		103768	42.50	ug/L	98
17) vinyl chloride	4.374	62		77303	40.93	ug/L	96
19) bromomethane	5.039	94		42936	37.02	ug/L	99
20) chloroethane	5.211	64		47728	47.51	ug/L	97
21) vinyl bromide	5.577	106		51394	43.94	ug/L #	96
22) trichlorofluoromethane	5.661	101		98263	50.11	ug/L	97
23) ethyl ether	6.116	74		32741	54.67	ug/L	98
27) 1,1-dichloroethene	6.576	96		50856	44.99	ug/L	83
28) acetone	6.649	58		4145	46.32	ug/L	99
29) allyl chloride	7.167	76		34846	49.44	ug/L #	80
30) acetonitrile	7.146	40		52263	534.42	ug/L	89
31) iodomethane	6.880	142		102330	49.20	ug/L	91
32) iso-butyl alcohol	10.379	74		7710	544.53	ug/L	100
33) carbon disulfide	7.010	76		208397	46.69	ug/L	93
34) methylene chloride	7.392	84		63632	48.28	ug/L	91
35) methyl acetate	7.157	74		6995	45.84	ug/L	89
36) methyl tert butyl ether	7.748	73		330387	99.85	ug/L	100
37) trans-1,2-dichloroethene	7.805	96		53165	42.27	ug/L	89
38) di-isopropyl ether	8.449	45		241986	55.75	ug/L	90
39) 2-butanone	9.359	72		5665	50.90	ug/L	44
40) 1,1-dichloroethane	8.480	63		116416	51.30	ug/L	98
41) chloroprene	8.600	53		91154	57.18	ug/L	95
42) acrylonitrile	7.779	53		87878	261.11	ug/L	98
43) vinyl acetate	8.470	86		8313	71.13	ug/L	96
44) ethyl tert-butyl ether	9.019	59		217168	56.60	ug/L	97
45) ethyl acetate	9.380	70		6078	56.32	ug/L	57
46) 2,2-dichloropropane	9.380	77		88982	46.01	ug/L	92

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
 Data File : X108323.D  
 Acq On : 26 Oct 2010 12:39 am  
 Operator : JUNTAEP  
 Sample : cc4516-50  
 Misc : MS3790,vx4578,5.0,,,,1  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 27 08:34:14 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
 Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 QLast Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) cis-1,2-dichloroethene	9.385	96	62035	46.14	ug/L	95
48) propionitrile	9.495	54	72137	538.38	ug/L	89
49) tert-Butyl Formate	9.897	59	57388	60.22	ug/L #	86
50) bromochloromethane	9.777	128	28820	51.03	ug/L #	87
51) tetrahydrofuran	9.814	42	20827	55.31	ug/L	95
52) chloroform	9.856	83	108169	52.10	ug/L	97
55) freon 113	6.550	151	36892	41.69	ug/L	97
56) methacrylonitrile	9.720	41	37410	53.67	ug/L	94
57) 1,1,1-trichloroethane	10.154	97	90747	51.86	ug/L	96
58) cyclohexane	10.232	84	78724	45.90	ug/L	82
60) iso-octane	10.708	57	237381	51.08	ug/L	94
63) epichlorohydrin	12.753	57	28476	333.52	ug/L	91
64) n-butyl alcohol	11.425	56	85541	2871.72	ug/L	92
65) carbon tetrachloride	10.405	117	78521	52.88	ug/L	99
66) 1,1-dichloropropene	10.379	75	80407	50.02	ug/L	96
67) hexane	8.151	86	8729	41.93	ug/L #	89
68) benzene	10.713	78	221172	47.49	ug/L	100
69) tert-amyl methyl ether	10.771	73	158673	49.83	ug/L	96
70) heptane	10.944	57	46572	50.66	ug/L	95
71) isopropyl acetate	10.656	43	155668	58.36	ug/L	99
72) 1,2-dichloroethane	10.755	62	77674	60.36	ug/L	95
73) trichloroethene	11.655	130	59021	49.67	ug/L	95
76) 2-nitropropane	12.737	46	1182	76.31	ug/L #	37
77) 2-chloroethyl vinyl ether	12.753	63	142418	336.17	ug/L	98
78) methyl methacrylate	12.042	69	34269	53.82	ug/L	86
79) 1,2-dichloropropane	12.016	63	68329	54.47	ug/L	97
80) dibromomethane	12.225	93	35633	57.11	ug/L	94
81) methylcyclohexane	11.927	83	89740	46.01	ug/L	94
82) bromodichloromethane	12.413	83	90062	57.89	ug/L	98
83) cis-1,3-dichloropropene	13.030	75	112844	54.62	ug/L	91
85) 4-methyl-2-pentanone	13.177	58	23105	59.33	ug/L	92
86) toluene	13.501	92	145330	47.34	ug/L	98
87) 3-methyl-1-butanol	13.229	55	54203	1100.19	ug/L	97
88) trans-1,3-dichloropropene	13.799	75	99170	55.39	ug/L	98
89) ethyl methacrylate	13.804	69	71357	52.96	ug/L	95
90) 1,1,2-trichloroethane	14.087	83	45696	55.45	ug/L	98
91) 2-hexanone	14.333	58	20106	55.18	ug/L	93
93) 3,3-Dimethyl-1-butanol	14.584	57	54023	496.60	ug/L	99
94) tetrachloroethene	14.286	164	50973	46.18	ug/L	98
95) 1,3-dichloropropane	14.327	76	86093	50.01	ug/L	91
96) butyl acetate	14.443	56	40756	52.96	ug/L	88
97) dibromochloromethane	14.673	129	63310	50.77	ug/L	100
98) 1,2-dibromoethane	14.856	107	52731	50.86	ug/L	96
100) chlorobenzene	15.473	112	160979	48.30	ug/L	96
101) 1,1,1,2-tetrachloroethane	15.562	131	57974	49.39	ug/L	98
102) ethylbenzene	15.551	91	270793	45.98	ug/L	98
103) m,p-xylene	15.698	106	199920	87.67	ug/L	95
104) o-xylene	16.242	106	111834	46.94	ug/L	93
105) styrene	16.257	104	174035	45.59	ug/L	90
106) bromoform	16.592	173	42895	52.58	ug/L	95

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X-CORE\vx4577-4578\  
 Data File : X108323.D  
 Acq On : 26 Oct 2010 12:39 am  
 Operator : JUNTAEP  
 Sample : cc4516-50  
 Misc : MS3790,vx4578,5.0,,,1  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 27 08:34:14 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\MX4516.M  
 Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um  
 QLast Update : Mon Oct 25 16:35:25 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) isopropylbenzene	16.676	105	279172	47.71	ug/L	97
110) bromobenzene	17.141	156	68154	48.51	ug/L	87
111) 1,1,2,2-tetrachloroethane	17.073	83	69838	53.79	ug/L	100
112) trans-1,4-dichloro-2-b...	17.120	53	21470	58.80	ug/L #	79
113) 1,2,3-trichloropropane	17.152	110	15127	54.13	ug/L #	81
114) n-propylbenzene	17.167	91	318512	46.77	ug/L	98
116) 2-chlorotoluene	17.330	126	66779	48.48	ug/L	91
117) 4-chlorotoluene	17.439	91	219903	50.82	ug/L	95
118) 1,3,5-trimethylbenzene	17.345	105	223262	47.38	ug/L	97
119) tert-butylbenzene	17.722	119	202969	48.72	ug/L	91
120) pentachloroethane	17.816	167	40109	51.61	ug/L	96
121) 1,2,4-trimethylbenzene	17.774	105	235269	47.97	ug/L	99
123) sec-butylbenzene	17.952	105	302574	48.49	ug/L	98
124) 1,3-dichlorobenzene	18.146	146	127128	47.31	ug/L	98
125) p-isopropyltoluene	18.083	119	246140	48.10	ug/L	96
126) 1,4-dichlorobenzene	18.229	146	121755	47.74	ug/L	98
127) 1,2-dichlorobenzene	18.616	146	120658	49.19	ug/L	98
128) benzyl chloride	18.355	91	108274	42.49	ug/L	97
130) n-butylbenzene	18.496	92	140248	51.17	ug/L	99
132) 1,2-dibromo-3-chloropr...	19.375	75	13861	59.24	ug/L	78
133) 1,3,5-trichlorobenzene	19.537	180	99046	49.28	ug/L	98
134) hexachlorobutadiene	20.253	225	49697	51.06	ug/L	95
135) naphthalene	20.426	128	155670	54.72	ug/L	95
136) 1,2,4-trichlorobenzene	20.149	180	83341	52.96	ug/L	94
137) 1,2,3-trichlorobenzene	20.667	180	72869	56.47	ug/L	99
138) hexachloroethane	18.862	201	45799	51.68	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Batch ID E44362

Date: 08-27-10

**Analyst Signature**

Standard Data		
Lot #	Description	Conc.
Sum 521-644	Fillygum + Pappus Cyl	100 ppm
Sum 521-643		50 ppm
Sum 521-645		20 ppm
Sum 521-640		10 ppm
Sum 521-646		5 ppm
Sum 521-645		1 ppm

Standard Data		
Lot #	Description	Conc.
<del>51052466</del>	<del>Edgum &amp; Poppel Creek</del>	<del>0.5 ppm</del>
51052464	Edgum & Poppel Creek	0.25 ppm
51052464	EDC 2nd source	5 ppm

Columns:  $2 \times 10 \times 30 \text{ cm} \times 2 \text{ mm} \times 5 \text{ mm}$

Method Elution & Paper Chromatography

Initial Cal. Method 1432 FPC

Injection Volume: 2.0

**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: 6/8/27

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
	100432	1C4362-100			w	1					OK	
	100433	1C4362-50			w	2					OK	
	100434	1C4362-25			w	3					OK	
	100435	1C4362-10			w	4					OK	
	100436	1C4362-5			w	5					OK	
	100437	1C4362-1			w	6					OK	
	100438	1C4362-0.5			w	7					OK	
	100439	1C4362-0.25			w	8					OK	
	100440	1C4362-5			w	5					OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

~~Sample volume/weight used and final volumes refer to extraction log.~~

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**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: OR015-05

Rev. Date: 1/16/2006

Batch ID: EH4363

Date: 08/31/10

Analyst Signature: [Signature]

### Standard Data

### Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
1005240	LP6	5.104
1005241	LP6 2nd Source	5.107

Columns: 100-250 30m x 0.25mm

Method: Effluent + Purge

Initial Cal. Method: 1005240

Injection Volume: 2.0

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: 08/31/10

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
100442	CC4362-5			W	1					✓	
100443	1004362-5			W	2					✓	
100444	MP1 resolution			W	3					✓	
100445	MB			W	4					✓	Sumgate duplicate
100446	BS 8.5m			W	5					✓	Sumgate duplicate
100447	750760-1	MS1478	8.2m Effluent		6					✓	
100448	750760-128				7					✓	
100449	750760-148				8					✓	
100450	750760-1	MS1183	8.2m Effluent		9					✓	PM 72
100451	MP1 resolution			S	10					✓	

ITX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

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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: OR015-05





**ACCUTEST.**

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EH4373

Date: 10-25-10

Analyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
500-52140	Ellyer + Purple Cydyl	Shpy

Columns: R1V-200 30m x 0.25mm i.d.

Method: Ellyer + Purple Cydyl

Initial Cal. Method: 14362676

Injection Volume: 2.0L

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

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
100536	164342-5			W	1					✓	Sample = 50ppm Cylind = 5m
100537	MB			S	2					✓	5.0g/5mL Sample stable - spiked
100538	BS			S	3					✓	5.0g/5mL Sample stable - spiked
100539	1A50750/11/05	153012	9260 67g/L Cydyl	S	4					✓	5.0g/5mL
100540	1A50750/11/05				5					✓	5.0g/5mL
100541	1A50750-11				6					✓	5.0g/5mL
100542	-1				7					✓	5.0g/5mL
100543	-2				8					✓	5.0g/5mL
100544	-3				9					✓	5.0g/5mL
100545	-4				10					✓	sequence stopped 5.0g/5mL reboot 9:03pm
100546	-5				11					✓	5.0g/5mL
100547	-6				12					✓	5.0g/5mL
100548	-7				13					✓	5.0g/5mL
100549	-8				14					✓	5.0g/5mL
100550	-9				15					Not run	5.0g/5mL Sequence stopped - Syringe
100551	-10				16						hate! 5.0g/5mL
100552	-12				17					✓	5.0g/5mL

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

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All 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

Form: OR015-05

Rev. Date: 1/16/2006



Batch ID: 014373

Analyst Signature: [Signature]

Columns: 27X-20030X-2144X-000

Lot #	Description	Conc.
500521-60	Hydroxypropyl Styrol	5 mm

Method Ethyl & Propyl Alcohol

Initial Cal. Method M 4362 ETC

Injection Volume: 2.02

Supervisor Signature,

Date 027-10

ITX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes 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: OR015-05

Rev. Date: 1/16/2006

**ACCUTEST.**

## VOLATILE ANALYSIS LOG

Batch ID: VX 4516Date: 9/13/2010Print Analyst Name: AUSTIN PARKSAnalyst Signature: TJP

## Standard Data

Lot #	Description	Conc.
010-862-96	ACR-UCIN	100ppm
010-862-23	EXT. ACROCEIN	↓
↓ -65	INT/SUR	100/100ppm

## Standard Data

Lot #	Description	Conc.
010-862-129	STD. A	100ppm
↓ -139	B	
010-862-66	↓ C	
010-862-43	EXT. A	
010-862-46	↓ C	↓

Columns: ZB1-4Method V8260Initial Cal. Method MX45-08

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: 9/13/10

R	Data File	Sample ID	Test	M T X	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L +	I S	S U	Status (Data)	Comments	pH <2
	X106936	BFB				1									
	106937	CC4508-20				2								100μl/50ml STD. A+B+C ACROCEIN	
	106938	MB				3									
	106939	BFB 7/25/10 (9)				4								25μl/50ml EXT. A+C STD. B EXT. ACROCEIN	
	106940	CC4508-20 7/25/10 (9)				5									
	106941	CC4508-20 7/25/10 (9)	7/25/10 STAR		6	4.5									
	106942	JA55982-1MS	7/25/10 STAR		2	1	4.5						NOT RAN	25μl/50ml STD. A+B+C ACROCEIN	
	106943	JA55982-1MSD	↓		2	8	4.5							↓	
	106944	IB				9									
	106945	JA55955-24	1946 TCLH+	S C I	1	10	5.0								
	106946	JA55835-1 7/25/10 (9)	1870 NTPCLH+ TBN	S C I	4	11	5.5								
	106947	JA55835-2			4	12	5.2								
	106948	JA55835-3			4	13	5.2								
	106949	JA55835-4			4	14	5.8								
	106950	JA55835-5			4	15	6.0								
	106951	JA55835-6			4	16	6.1								
	106952	JA55835-7	↓		4	17	6.0						↓		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected \* IF pH &gt; 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error;  
= computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

249

Date: 7/13/2010

Print Analyst Name: AUSTIN PARK

Analyst Signature: 77P

### Standard Data

[illegible]

## Standard Data

Lot #	Description	Conc.
FALEGE. 249		

Columns: ZB624

Method 18260

Initial Cal. Method MX 4508

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: 9/17/16

[illegible]

TX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected \* IF pH > 2, comment on sample result.

All strike outs 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: OR001-9

Rev. Date: 2/14/2007

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**ACCUTEST.**

# VOLATILE ANALYSIS LOG

Batch ID: VX4516

Date: 9/14/2016

Print Analyst Name: ALLISTON PARK

Analyst Signature: JP

## Standard Data

Lot #	Description	Conc.
510-362-146	STDA	100ppm
510-362-03	STDA+ACROLEIN	↓
510-362-07	INT	100ppm
510-362-134	SUR	100ppm

## Standard Data

Lot #	Description	Conc.
510-362-127	STDA	100ppm
↓ -139	B	↓
510-362-11	C	↓
510-362-148	STDA	↓
510-362-16	C	↓

Columns: Z8624

Method V8260

Initial Cal. Method MAX4503 MAX4516  
7/19/14

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: by: [Signature] Date: 9/17/16

R	Data File	Sample ID	Test	M T X	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L +	I S	S U	Status (Data)	Comments	pH < 2
X	106943	BFB				1							q2		
	106944	1C4516-1				2							q2	10ul/50ml 100 STDA+B+C ACROLEIN SURGATE	
	106945	1C4516-5				3							q2	5ul/50ml 100	
	106946	1C4516-2				4							q2	2ul/50ml 100	
	106947	1C4516-0.5				5							q2	0.5ul/50ml 100	
	106948	1C4516-10 <u>7/19/14</u>				6							q2	10ul/50ml 100	
	106949	1C4516-20				7							q2	10ul/50ml 25ul/50ml 100 STDA+B+C ACROLEIN SURGATE	
	106950	1C4516-50				8							q2	25ul/50ml 100	
	106951	1C4516-50				9							q2	25ul/50ml 100 STDA+B+C STDA+ACROLEIN	
	106952	1C4516-100				10							q2	50ul/50ml 100 STDA+B+C ACROLEIN SURGATE	
	106953	1C4516-200				11							q2	100ul/50ml 100 7/19/14	
	106954	1B				12									
	<del>106955</del> <u>7/19/14</u>														

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected \* IF pH > 2, comment on sample result.

All strike outs 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: OR001-9

Rev. Date: 2/14/2007

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## VOLATILE ANALYSIS LOG

Batch ID: VX 4575Date: 10/23/2010Print Analyst Name: AGUSTIN PAREKAnalyst Signature: JTP

## Standard Data

Lot #	Description	Conc.
108250	ACROLEIN	100ppm
108251	EXT. ACROLEIN	↓
108252	INTJSOR	100/2000 ppm
108253	VINYL PROPYLENE	100ppm

## Standard Data

Lot #	Description	Conc.
108250	STD. A	100ppm
108251	B	↓
108252	C	↓
108253	EXT. A	↓
108254	C	↓

Columns: Z6624 (6mm x 250µm x 1.4µm)Method: V626cInitial Cal. Method: MX4516

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: 10/23/2010

R	Data File	Sample ID	Test	M T X	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L +	I S	S U	Status (Data)	Comments	pH < 2
	108251	BAF3				1									1.44, 2.41
	108252	CC4516-20				2								100/2000 STD. A+B+C ACROLEIN VINYL PROPYLENE	
	108253	CC4516-20				3								↓	
	108254	MB				4									
	108255	BS				5								500/2000 EXT. ACROLEIN EXT. ACROLEIN VINYL PROPYLENE	
	108256	JA58750-11MS	3476 APOL. EPICH VINYLOR	S	30	6	11.0							200/2000 STD. A+B+C ACROLEIN VINYL PROPYLENE	
	108257	JA58750-11MSD	↓		29	7	11.0							↓	
	108258	IB				8								cleanup	
	108259	JA58750-11	3476 APOL. EPICH VINYLOR	S	28	7	9.4								
R	108260	JA58750-15			11	10	11.2								
R	108261	JA58750-16			11	11	8.9								
R	108262	JA58750-17			11	12	9.2								
R	108263	JA58750-18			11	13	8.9								
	108264	JA58750-1			10	14	11.7								
	108265	JA58750-2			11	15	11.2								
	108266	JA58750-3			10	16	11.0								
	108267	JA58750-4	↓		10	17	10.4								

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected \* IF pH > 2, comment on sample result.

All strike outs 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: OR001-9

Rev. Date: 2/14/2007

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Batch ID: VX4575

Print Analyst Name: AUSTIN PARK  
Analyst Signature: JP

### Standard Data

### Standard Data

Lot #	Description	Conc.
PALE C.	223	

Initial Cal. Method NY4516

Supervisor Signature: [Signature] Date: 10/15/12

[illegible]

Rev. Date: 2/14/2007

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## VOLATILE ANALYSIS LOG

Batch ID: VX 4577Print Analyst Name: AUSTIN PARKAnalyst Signature: JIPDate: 8/10/25/2010

Standard Data

Lot #	Description	Conc.
70-86-60	STD-A	100ppm
76	13	
93	10	
90	EXT-A	
92	10	

Standard Data

Lot #	Description	Conc.
70-86-60	STD-A	100ppm
76	13	
93	10	
90	EXT-A	
92	10	

Columns: 7B6-4 (6min) 7B6-4 (1.4min)Method: V8266Initial Cal. Method: MX 4576

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: 8/10/10

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L	I	S	U	Status (Data)	Comments	pH < 2
	108299	DFB				1										
	108299	204516-20				2									12.28	
	108299	204516-20				3										
	108300	204516-20				4										
	108301	204516-20				5										
	108302	204516-20				6										
	108303	204516-20				7										
	108304	204516-20				8										
	108305	204516-20				9										
	108306	204516-20				10										
	108307	204516-20				11										
	108308	204516-20				12										
	108309	204516-20				13										
	108310	204516-20				14										
	108311	204516-20				15										
	108312	204516-20				16										
	108313	204516-20				17										
	108314	204516-20				18										
	108315	204516-20				19										
	108316	204516-20				20										
	108317	204516-20				21										
	108318	204516-20				22										
	108319	204516-20				23										
	108320	204516-20				24										
	108321	204516-20				25										
	108322	204516-20				26										
	108323	204516-20				27										
	108324	204516-20				28										
	108325	204516-20				29										
	108326	204516-20				30										
	108327	204516-20				31										
	108328	204516-20				32										
	108329	204516-20				33										
	108330	204516-20				34										
	108331	204516-20				35										
	108332	204516-20				36										
	108333	204516-20				37										
	108334	204516-20				38										
	108335	204516-20				39										
	108336	204516-20				40										
	108337	204516-20				41										
	108338	204516-20				42										
	108339	204516-20				43										
	108340	204516-20				44										
	108341	204516-20				45										
	108342	204516-20				46										
	108343	204516-20				47										
	108344	204516-20				48										
	108345	204516-20				49										
	108346	204516-20				50										
	108347	204516-20				51										
	108348	204516-20				52										
	108349	204516-20				53										
	108350	204516-20				54										
	108351	204516-20				55										
	108352	204516-20				56										
	108353	204516-20				57										
	108354	204516-20				58										
	108355	204516-20				59										
	108356	204516-20				60										
	108357	204516-20				61										
	108358	204516-20				62										
	108359	204516-20				63										
	108360	204516-20				64										
	108361	204516-20				65										
	108362	204516-20				66										
	108363	204516-20				67										
	108364	204516-20				68										
	108365	204516-20				69										
	108366	204516-20				70										
	108367	204516-20				71										
	108368	204516-20				72										
	108369	204516-20				73										
	108370	204516-20				74										
	108371	204516-20				75										
	108372	204516-20				76										
	108373	204516-20				77										
	108374	204516-20				78										
	108375	204516-20				79										
	108376	204516-20				80										
	108377	204516-20				81										
	108378	204516-20				82										
	108379	204516-20				83										
	108380	204516-20				84										
	108381	204516-20				85										
	108382	204516-20				86										
	108383	204516-20				87										
	108384	204516-20				88										
	108385	204516-20				89										
	108386	204516-20				90										
	108387	204516-20				91										
	108388	204516-20				92										
	108389	204516-20				93										
	108390	204516-20				94										
	108391	204516-20				95										
	108392	204516-20				96										
	108393	204516-20				97										
	108394	204516-20				98										
	108395	204516-20				99										
	108396	204516-20				100										

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected \* IF pH &gt; 2, comment on sample result.

All strike outs 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: OR001-9

Rev. Date: 2/14/2007

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## VOLATILE ANALYSIS LOG



## VOLATILE ANALYSIS LOG

Batch ID: VX4578Date: 10/25/2010Print Analyst Name: ACUSTIN PARELAnalyst Signature: [Signature]

## Standard Data

Lot #	Description	Conc.
108322	ALCOHOL	100ppm
108323	EXT. ACROLEIN	↓
108324	INT. ACROLEIN	100ppm
108325	VINYL BROMIDE	100ppm

## Standard Data

Lot #	Description	Conc.
108326	STD. B	100ppm
108327	↓ D	↓
108328	↓ C	↓
108329	EXT. A	↓
108330	↓ C	↓

Columns: 286-2416-mx-7-20-08-11-09-10Method: V8760Initial Cal. Method: VX4576

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: 10/26/10

R	Data File	Sample ID	Test	M T X	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L + S U	I S U	Status (Data)	Comments	pH ≤ 2
	108322	13F13				24								
	108323	CC4516-50				28							250ppm STD. A+B+C ACROLEIN	
	108324	1B				26							clear up	
	108325	14B				24								
	108326	BS				28							250ppm STD. A+B+C ACROLEIN VINYL BROMIDE	
	108327	JA59307-1545	3790 TCLH110	5/2	16	29	5.2						250ppm STD. A+B+C ACROLEIN VINYL BROMIDE	
	108328	JA59307-1545D	↓	↓	15	30	5.1						↓	
	108329	1B				31							clear up	
	108330	JA59307-15	3790 TCLH110	5/2	5	32	5.6							
	108331	JA59192-2	3797 TCLH110		3	33	4.8						RR R2 IX 4/02	
	108332	JA59192-3			3	34	4.9							
	108333	JA59192-5			3	35	4.9							
	108334	JA59192-6			3	36	5.1							
	108335	JA59192-9			3	37	4.9							
	108336	JA59192-10	↓		3	38	4.8							
	108337	JA59307-20	3790 TCLH110		5	39	5.5							
	108338	JA59307-19	↓	↓	5	40	5.4							

ATX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.  
Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected \* IF pH > 2, comment on sample result.

All strike outs 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: OR001-9

Rev. Date: 2/14/2007

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## GC/MS Semi-volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

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**Method Blank Summary**

Page 1 of 3

**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46301-MB1	2P2250.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127

**The QC reported here applies to the following samples:****Method:** SW846 8270C

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	570	52	ug/kg	
95-57-8	2-Chlorophenol	ND	140	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	140	29	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	140	46	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	140	48	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	570	35	ug/kg	
95-48-7	2-Methylphenol	ND	57	33	ug/kg	
	3&4-Methylphenol	ND	57	36	ug/kg	
88-75-5	2-Nitrophenol	ND	140	30	ug/kg	
100-02-7	4-Nitrophenol	ND	290	48	ug/kg	
87-86-5	Pentachlorophenol	ND	290	49	ug/kg	
108-95-2	Phenol	ND	57	30	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	140	29	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	140	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	140	27	ug/kg	
83-32-9	Acenaphthene	ND	29	8.3	ug/kg	
208-96-8	Acenaphthylene	ND	29	9.1	ug/kg	
98-86-2	Acetophenone	ND	140	5.0	ug/kg	
62-53-3	Aniline	ND	57	6.0	ug/kg	
120-12-7	Anthracene	ND	29	10	ug/kg	
1912-24-9	Atrazine	ND	140	5.6	ug/kg	
92-87-5	Benzidine	ND	570	110	ug/kg	
56-55-3	Benzo(a)anthracene	ND	29	9.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	29	8.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	29	9.5	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	29	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	29	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	57	17	ug/kg	
100-51-6	Benzyl Alcohol	ND	57	12	ug/kg	
92-52-4	1,1'-Biphenyl	ND	57	3.3	ug/kg	
106-47-8	4-Chloroaniline	ND	140	9.1	ug/kg	
86-74-8	Carbazole	ND	57	13	ug/kg	
218-01-9	Chrysene	ND	29	9.7	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	57	8.6	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	57	8.5	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	57	8.6	ug/kg	

## Method Blank Summary

Page 2 of 3

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46301-MB1	2P2250.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	57	8.2	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	57	12	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	57	7.7	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	57	6.4	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	57	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	57	11	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	140	7.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	29	9.7	ug/kg	
132-64-9	Dibenzofuran	ND	57	8.5	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	57	6.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	57	14	ug/kg	
84-66-2	Diethyl phthalate	ND	57	9.7	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	57	25	ug/kg	
206-44-0	Fluoranthene	ND	29	13	ug/kg	
86-73-7	Fluorene	ND	29	9.4	ug/kg	
118-74-1	Hexachlorobenzene	ND	57	9.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	29	7.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	570	29	ug/kg	
67-72-1	Hexachloroethane	ND	140	7.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	29	9.9	ug/kg	
78-59-1	Isophorone	ND	57	7.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	57	16	ug/kg	
88-74-4	2-Nitroaniline	ND	140	13	ug/kg	
99-09-2	3-Nitroaniline	ND	140	11	ug/kg	
100-01-6	4-Nitroaniline	ND	140	11	ug/kg	
91-20-3	Naphthalene	ND	29	7.8	ug/kg	
98-95-3	Nitrobenzene	ND	57	8.3	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	57	25	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	57	7.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	140	17	ug/kg	
85-01-8	Phenanthrene	ND	29	13	ug/kg	
129-00-0	Pyrene	ND	29	11	ug/kg	
110-86-1	Pyridine	ND	57	11	ug/kg	
91-22-5	Quinoline	ND	140	27	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	140	8.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	57	7.6	ug/kg	

## Method Blank Summary

Page 3 of 3

**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46301-MB1	2P2250.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	95%	30-109%
4165-62-2	Phenol-d5	85%	28-108%
118-79-6	2,4,6-Tribromophenol	74%	28-125%
4165-60-0	Nitrobenzene-d5	91%	28-113%
321-60-8	2-Fluorobiphenyl	86%	38-107%
1718-51-0	Terphenyl-d14	104%	31-116%

7.1.1

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**Blank Spike Summary****Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46301-BS1	2P2251.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	1430	1050	74	3-149
95-57-8	2-Chlorophenol	1430	1130	79	55-107
59-50-7	4-Chloro-3-methyl phenol	1430	1270	89	57-116
120-83-2	2,4-Dichlorophenol	1430	1130	79	54-116
105-67-9	2,4-Dimethylphenol	1430	1300	91	55-127
51-28-5	2,4-Dinitrophenol	2860	2170	76	14-139
95-48-7	2-Methylphenol	1430	1170	82	53-109
	3&4-Methylphenol	1430	1130	79	52-111
88-75-5	2-Nitrophenol	1430	1100	77	52-117
100-02-7	4-Nitrophenol	1430	1220	85	17-136
87-86-5	Pentachlorophenol	1430	852	60	18-125
108-95-2	Phenol	1430	1200	84	48-108
58-90-2	2,3,4,6-Tetrachlorophenol	1430	1100	77	45-118
95-95-4	2,4,5-Trichlorophenol	1430	1230	86	57-114
88-06-2	2,4,6-Trichlorophenol	1430	1170	82	57-115
83-32-9	Acenaphthene	1430	1270	89	54-113
208-96-8	Acenaphthylene	1430	1210	85	48-107
98-86-2	Acetophenone	1430	1270	89	54-115
62-53-3	Aniline	1430	1020	71	6-92
120-12-7	Anthracene	1430	1330	93	55-120
1912-24-9	Atrazine	1430	1290	90	49-121
92-87-5	Benzidine	1430	845	59	1-80
56-55-3	Benzo(a)anthracene	1430	1260	88	52-121
50-32-8	Benzo(a)pyrene	1430	1390	97	52-122
205-99-2	Benzo(b)fluoranthene	1430	1360	95	42-128
191-24-2	Benzo(g,h,i)perylene	1430	1340	94	51-120
207-08-9	Benzo(k)fluoranthene	1430	1460	102	47-132
85-68-7	Butyl benzyl phthalate	1430	1440	101	52-127
100-51-6	Benzyl Alcohol	1430	1130	79	40-121
92-52-4	1,1'-Biphenyl	1430	1220	85	58-114
106-47-8	4-Chloroaniline	1430	881	62	16-93
86-74-8	Carbazole	1430	1320	92	55-122
218-01-9	Chrysene	1430	1370	96	53-120
111-44-4	bis(2-Chloroethyl)ether	1430	1240	87	40-127
108-60-1	bis(2-Chloroisopropyl)ether	1430	1180	83	47-111
7005-72-3	4-Chlorophenyl phenyl ether	1430	1260	88	52-120

7.2.1

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## Blank Spike Summary

Page 2 of 3

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46301-BS1	2P2251.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	1430	1130	79	47-111
122-66-7	1,2-Diphenylhydrazine	1430	1480	104	49-133
541-73-1	1,3-Dichlorobenzene	1430	1120	78	45-110
106-46-7	1,4-Dichlorobenzene	1430	1130	79	46-110
121-14-2	2,4-Dinitrotoluene	1430	1300	91	51-125
606-20-2	2,6-Dinitrotoluene	1430	1370	96	54-126
91-94-1	3,3'-Dichlorobenzidine	1430	1240	87	28-113
53-70-3	Dibenzo(a,h)anthracene	1430	1360	95	51-125
132-64-9	Dibenzofuran	1430	1240	87	54-118
84-74-2	Di-n-butyl phthalate	1430	1400	98	55-122
117-84-0	Di-n-octyl phthalate	1430	1430	100	50-132
84-66-2	Diethyl phthalate	1430	1330	93	53-118
117-81-7	bis(2-Ethylhexyl)phthalate	1430	1440	101	51-130
206-44-0	Fluoranthene	1430	1330	93	50-119
86-73-7	Fluorene	1430	1340	94	54-119
118-74-1	Hexachlorobenzene	1430	1220	85	51-123
87-68-3	Hexachlorobutadiene	1430	1150	81	40-130
77-47-4	Hexachlorocyclopentadiene	2860	2890	101	24-145
67-72-1	Hexachloroethane	1430	1120	78	41-118
193-39-5	Indeno(1,2,3-cd)pyrene	1430	1360	95	51-124
78-59-1	Isophorone	1430	1310	92	50-117
91-57-6	2-Methylnaphthalene	1430	1230	86	44-127
88-74-4	2-Nitroaniline	1430	1420	99	44-137
99-09-2	3-Nitroaniline	1430	968	68	33-106
100-01-6	4-Nitroaniline	1430	1290	90	44-122
91-20-3	Naphthalene	1430	1150	81	49-112
98-95-3	Nitrobenzene	1430	1160	81	48-118
62-75-9	n-Nitrosodimethylamine	1430	1180	83	27-129
621-64-7	N-Nitroso-di-n-propylamine	1430	1310	92	46-121
86-30-6	N-Nitrosodiphenylamine	1430	1300	91	59-130
85-01-8	Phenanthrene	1430	1270	89	53-118
129-00-0	Pyrene	1430	1350	95	52-120
110-86-1	Pyridine	1430	1030	72	25-103
91-22-5	Quinoline	1430	1360	95	58-120
95-94-3	1,2,4,5-Tetrachlorobenzene	1430	1110	78	36-152
120-82-1	1,2,4-Trichlorobenzene	1430	1130	79	46-118

## Blank Spike Summary

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**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46301-BS1	2P2251.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	84%	30-109%
4165-62-2	Phenol-d5	80%	28-108%
118-79-6	2,4,6-Tribromophenol	89%	28-125%
4165-60-0	Nitrobenzene-d5	96%	28-113%
321-60-8	2-Fluorobiphenyl	93%	38-107%
1718-51-0	Terphenyl-d14	107%	31-116%

7.2.1

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**Matrix Spike/Matrix Spike Duplicate Summary**

Page 1 of 3

**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46301-MS	2P2262.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
OP46301-MSD	2P2263.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
JA58750-11	2P2261.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
JA58750-11T	2P2261R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127

**The QC reported here applies to the following samples:****Method:** SW846 8270C

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	JA58750-11 ug/kg	Spike Q	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND	1710	438	26	437	26	0	1-146/41
95-57-8	2-Chlorophenol	ND	1710	837	49	759	44	10	41-106/24
59-50-7	4-Chloro-3-methyl phenol	ND	1710	879	51	816	48	7	39-122/27
120-83-2	2,4-Dichlorophenol	ND	1710	809	47	726	42	11	40-115/27
105-67-9	2,4-Dimethylphenol	ND	1710	948	55	856	50	10	40-130/27
51-28-5	2,4-Dinitrophenol	ND	3420	854	25	740	22	14	1-121/39
95-48-7	2-Methylphenol	ND	1710	852	50	786	46	8	38-112/26
	3&4-Methylphenol	ND	1710	815	48	754	44	8	37-114/27
88-75-5	2-Nitrophenol	ND	1710	759	44	681	40	11	28-118/28
100-02-7	4-Nitrophenol	ND	1710	616	36	624	36	1	13-136/39
87-86-5	Pentachlorophenol	ND	1710	563	33	558	33	1	13-124/28
108-95-2	Phenol	ND	1710	894	52	798	47	11	35-109/27
58-90-2	2,3,4,6-Tetrachlorophenol	ND	1710	721	42	669	39	7	36-116/29
95-95-4	2,4,5-Trichlorophenol	ND	1710	850	50	775	45	9	43-114/26
88-06-2	2,4,6-Trichlorophenol	ND	1710	778	45	743	43	5	43-117/26
83-32-9	Acenaphthene	ND	1710	895	52	824	48	8	38-116/26
208-96-8	Acenaphthylene	ND	1710	859	50	796	47	8	34-111/24
98-86-2	Acetophenone	ND	1710	886	52	804	47	10	35-119/26
62-53-3	Aniline	ND	1710	895	52	843	49	6	1-91/36
120-12-7	Anthracene	ND	1710	920	54	875	51	5	35-127/28
1912-24-9	Atrazine	ND	1710	917	54	834	49	9	33-121/27
92-87-5	Benzidine	ND	1710	346	20	403	24	15	1-100/42
56-55-3	Benzo(a)anthracene	ND	1710	856	50	799	47	7	26-135/30
50-32-8	Benzo(a)pyrene	ND	1710	918	54	859	50	7	30-131/30
205-99-2	Benzo(b)fluoranthene	ND	1710	873	51	854	50	2	24-135/33
191-24-2	Benzo(g,h,i)perylene	ND	1710	771	45	737	43	5	30-129/29
207-08-9	Benzo(k)fluoranthene	ND	1710	992	58	886	52	11	27-131/33
85-68-7	Butyl benzyl phthalate	ND	1710	871	51	756	44	14	38-130/27
100-51-6	Benzyl Alcohol	ND	1710	814	48	747	44	9	30-119/28
92-52-4	1,1'-Biphenyl	ND	1710	855	50	795	46	7	42-118/25
106-47-8	4-Chloroaniline	ND	1710	792	46	761	44	4	14-91/34
86-74-8	Carbazole	ND	1710	929	54	878	51	6	40-126/26
218-01-9	Chrysene	ND	1710	919	54	880	51	4	27-135/30
111-44-4	bis(2-Chloroethyl)ether	ND	1710	900	53	815	48	10	29-124/27
108-60-1	bis(2-Chloroisopropyl)ether	ND	1710	873	51	777	45	12	34-110/24
7005-72-3	4-Chlorophenyl phenyl ether	ND	1710	864	51	811	47	6	40-119/24

# Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46301-MS	2P2262.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
OP46301-MSD	2P2263.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
JA58750-11	2P2261.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
JA58750-11T	2P2261R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	JA58750-11 ug/kg	Spike Q	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	ND	1710	817	48	740	43	10	33-110/24
122-66-7	1,2-Diphenylhydrazine	ND	1710	1010	59	956	56	5	37-129/26
541-73-1	1,3-Dichlorobenzene	ND	1710	805	47	730	43	10	34-104/24
106-46-7	1,4-Dichlorobenzene	ND	1710	828	48	746	44	10	34-105/23
121-14-2	2,4-Dinitrotoluene	ND	1710	857	50	783	46	9	31-123/28
606-20-2	2,6-Dinitrotoluene	ND	1710	929	54	863	50	7	35-128/27
91-94-1	3,3'-Dichlorobenzidine	ND	1710	980	57	949	55	3	12-113/35
53-70-3	Dibenzo(a,h)anthracene	ND	1710	800	47	756	44	6	35-129/28
132-64-9	Dibenzofuran	ND	1710	866	51	821	48	5	36-125/26
84-74-2	Di-n-butyl phthalate	ND	1710	971	57	907	53	7	39-124/25
117-84-0	Di-n-octyl phthalate	ND	1710	880	51	749	44	16	33-135/27
84-66-2	Diethyl phthalate	ND	1710	907	53	861	50	5	41-116/25
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1710	884	52	801	47	10	35-140/30
206-44-0	Fluoranthene	ND	1710	922	54	870	51	6	24-133/34
86-73-7	Fluorene	ND	1710	933	55	862	50	8	37-124/27
118-74-1	Hexachlorobenzene	ND	1710	865	51	811	47	6	40-116/24
87-68-3	Hexachlorobutadiene	ND	1710	829	48	735	43	12	31-122/26
77-47-4	Hexachlorocyclopentadiene	ND	3420	1670	49	1440	42	15	1-127/37
67-72-1	Hexachloroethane	ND	1710	812	47	717	42	12	26-108/25
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1710	790	46	745	44	6	32-130/29
78-59-1	Isophorone	ND	1710	934	55	858	50	8	35-117/25
91-57-6	2-Methylnaphthalene	ND	1710	886	52	814	48	8	29-130/28
88-74-4	2-Nitroaniline	ND	1710	947	55	905	53	5	33-133/30
99-09-2	3-Nitroaniline	ND	1710	767	45	709	41	8	24-108/31
100-01-6	4-Nitroaniline	ND	1710	804	47	770	45	4	25-117/31
91-20-3	Naphthalene	ND	1710	835	49	756	44	10	32-116/28
98-95-3	Nitrobenzene	ND	1710	849	50	758	44	11	32-120/26
62-75-9	n-Nitrosodimethylamine	ND	1710	864	51	795	46	8	17-118/29
621-64-7	N-Nitroso-di-n-propylamine	ND	1710	950	56	871	51	9	30-124/25
86-30-6	N-Nitrosodiphenylamine	ND	1710	896	52	846	49	6	38-143/27
85-01-8	Phenanthrene	ND	1710	900	53	853	50	5	26-135/33
129-00-0	Pyrene	ND	1710	912	53	860	50	6	23-139/33
110-86-1	Pyridine	ND	1710	769	45	684	40	12	15-95/33
91-22-5	Quinoline	ND	1710	935	55	851	50	9	37-123/26
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	1710	798	47	735	43	8	24-146/19
120-82-1	1,2,4-Trichlorobenzene	ND	1710	818	48	734	43	11	36-113/24

## Matrix Spike/Matrix Spike Duplicate Summary

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**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46301-MS	2P2262.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
OP46301-MSD	2P2263.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
JA58750-11	2P2261.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
JA58750-11T	2P2261R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Surrogate Recoveries	MS	MSD	JA58750-11	JA58750-11T	Limits
367-12-4	2-Fluorophenol	53%	47%	55%	55%	30-109%
4165-62-2	Phenol-d5	48%	43%	48%	48%	28-108%
118-79-6	2,4,6-Tribromophenol	53%	48%	44%	44%	28-125%
4165-60-0	Nitrobenzene-d5	58%	53%	58%	58%	28-113%
321-60-8	2-Fluorobiphenyl	56%	51%	57%	57%	38-107%
1718-51-0	Terphenyl-d14	62%	58%	71%	71%	31-116%

7.3.1

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**Instrument Performance Check (DFTPP)**

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**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA**Sample:** E2P117-DFTPP**Injection Date:** 10/21/10**Lab File ID:** 2P2038.D**Injection Time:** 10:09**Instrument ID:** GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	61130	36.4	Pass
68	Less than 2.0% of mass 69	1184	0.71 (1.64) <sup>a</sup>	Pass
69	Mass 69 relative abundance	72096	43.0	Pass
70	Less than 2.0% of mass 69	301	0.18 (0.42) <sup>a</sup>	Pass
127	40.0 - 60.0% of mass 198	86099	51.3	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	167824	100.0	Pass
199	5.0 - 9.0% of mass 198	11578	6.90	Pass
275	10.0 - 30.0% of mass 198	36285	21.6	Pass
365	1.0 - 100.0% of mass 198	4414	2.63	Pass
441	Present, but less than mass 443	17964	10.7 (80.8) <sup>b</sup>	Pass
442	40.0 - 100.0% of mass 198	115573	68.9	Pass
443	17.0 - 23.0% of mass 442	22233	13.2 (19.2) <sup>c</sup>	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P117-IC117	2P2039.D	10/21/10	11:05	00:56	Initial cal 100
E2P117-IC117	2P2040.D	10/21/10	11:32	01:23	Initial cal 1
E2P117-IC117	2P2041.D	10/21/10	12:02	01:53	Initial cal 80
E2P117-IC117	2P2042.D	10/21/10	12:28	02:19	Initial cal 2
E2P117-IC117	2P2043.D	10/21/10	12:54	02:45	Initial cal 50
E2P117-IC117	2P2044.D	10/21/10	13:20	03:11	Initial cal 5
E2P117-ICC117	2P2045.D	10/21/10	13:46	03:37	Initial cal 25
E2P117-IC117	2P2046.D	10/21/10	14:26	04:17	Initial cal 10

**Instrument Performance Check (DFTPP)**

Page 1 of 1

**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA**Sample:** E2P118-DFTPP**Injection Date:** 10/21/10**Lab File ID:** 2P2047.D**Injection Time:** 15:07**Instrument ID:** GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	69483	39.0	Pass
68	Less than 2.0% of mass 69	1315	0.74 (1.64) <sup>a</sup>	Pass
69	Mass 69 relative abundance	80392	45.1	Pass
70	Less than 2.0% of mass 69	543	0.30 (0.68) <sup>a</sup>	Pass
127	40.0 - 60.0% of mass 198	94805	53.2	Pass
197	Less than 1.0% of mass 198	345	0.19	Pass
198	Base peak, 100% relative abundance	178328	100.0	Pass
199	5.0 - 9.0% of mass 198	11819	6.63	Pass
275	10.0 - 30.0% of mass 198	38248	21.4	Pass
365	1.0 - 100.0% of mass 198	4551	2.55	Pass
441	Present, but less than mass 443	19807	11.1 (83.7) <sup>b</sup>	Pass
442	40.0 - 100.0% of mass 198	123992	69.5	Pass
443	17.0 - 23.0% of mass 442	23675	13.3 (19.1) <sup>c</sup>	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P118-IC118	2P2048.D	10/21/10	15:16	00:09	Initial cal 100
E2P118-IC118	2P2049.D	10/21/10	15:42	00:35	Initial cal 80
E2P118-ICC118	2P2050.D	10/21/10	16:08	01:01	Initial cal 50
E2P118-IC118	2P2051.D	10/21/10	16:34	01:27	Initial cal 25
E2P118-IC118	2P2052.D	10/21/10	17:00	01:53	Initial cal 10
E2P118-IC118	2P2053.D	10/21/10	17:26	02:19	Initial cal 5
E2P118-IC118	2P2054.D	10/21/10	17:52	02:45	Initial cal 2
E2P118-IC118	2P2055.D	10/21/10	18:17	03:10	Initial cal 1
E2P118-ICV117	2P2057.D	10/21/10	19:09	04:02	Initial cal verification 50
E2P118-ICV118	2P2057A.D	10/21/10	19:09	04:02	Initial cal verification 50
E2P118-ICV117	2P2059.D	10/21/10	20:00	04:53	Initial cal verification 50
E2P118-ICV117	2P2058.D	10/21/10	20:26	05:19	Initial cal verification 50
E2P118-ICV118	2P2058A.D	10/21/10	20:26	05:19	Initial cal verification 50
E2P118-ICV117	2P2060.D	10/21/10	20:52	05:45	Initial cal verification 50
E2P118-ICV118	2P2060A.D	10/21/10	20:52	05:45	Initial cal verification 50

**Instrument Performance Check (DFTPP)**

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P127-DFTPP

Injection Date: 11/02/10

Lab File ID: 2P2247.D

Injection Time: 09:09

Instrument ID: GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	21683	47.3	Pass
68	Less than 2.0% of mass 69	345	0.75 (1.44) <sup>a</sup>	Pass
69	Mass 69 relative abundance	23928	52.3	Pass
70	Less than 2.0% of mass 69	154	0.34 (0.64) <sup>a</sup>	Pass
127	40.0 - 60.0% of mass 198	26344	57.5	Pass
197	Less than 1.0% of mass 198	287	0.63	Pass
198	Base peak, 100% relative abundance	45794	100.0	Pass
199	5.0 - 9.0% of mass 198	3215	7.02	Pass
275	10.0 - 30.0% of mass 198	10134	22.1	Pass
365	1.0 - 100.0% of mass 198	1275	2.78	Pass
441	Present, but less than mass 443	4849	10.6 (85.1) <sup>b</sup>	Pass
442	40.0 - 100.0% of mass 198	30807	67.3	Pass
443	17.0 - 23.0% of mass 442	5697	12.4 (18.5) <sup>c</sup>	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P127-CC117	2P2248.D	11/02/10	09:21	00:12	Continuing cal 25
E2P127-CC118	2P2249.D	11/02/10	09:49	00:40	Continuing cal 25
OP46301-MB1	2P2250.D	11/02/10	10:21	01:12	Method Blank
OP46301-BS1	2P2251.D	11/02/10	10:46	01:37	Blank Spike
JA58750-1	2P2252.D	11/02/10	11:12	02:03	BBNP-CW1-C
ZZZZZZ	2P2252R.D	11/02/10	11:12	02:03	(unrelated sample)
JA58750-2	2P2253.D	11/02/10	11:38	02:29	BBNP-CW2-C
ZZZZZZ	2P2253R.D	11/02/10	11:38	02:29	(unrelated sample)
JA58750-3	2P2254.D	11/02/10	12:03	02:54	BBNP-CW3-C
ZZZZZZ	2P2254R.D	11/02/10	12:03	02:54	(unrelated sample)
JA58750-4	2P2255.D	11/02/10	12:29	03:20	BBNP-CW6-C
ZZZZZZ	2P2255R.D	11/02/10	12:29	03:20	(unrelated sample)
JA58750-5	2P2256.D	11/02/10	12:55	03:46	BBNP-CW9-C
ZZZZZZ	2P2256R.D	11/02/10	12:55	03:46	(unrelated sample)
JA58750-6	2P2257.D	11/02/10	13:20	04:11	BBNP-CW9-FD
ZZZZZZ	2P2257R.D	11/02/10	13:20	04:11	(unrelated sample)
JA58750-8	2P2258.D	11/02/10	13:46	04:37	BBNP-CW15-C
ZZZZZZ	2P2258R.D	11/02/10	13:46	04:37	(unrelated sample)
JA58750-9	2P2259.D	11/02/10	14:12	05:03	BBNP-CW18-C



# Instrument Performance Check (DFTPP)

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Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P127-DFTPP

Injection Date: 11/02/10

Lab File ID: 2P2247.D

Injection Time: 09:09

Instrument ID: GCMS2P

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2P2259R.D	11/02/10	14:12	05:03	(unrelated sample)
JA58750-11	2P2261.D	11/02/10	15:59	06:50	BBNP-CW5-C
JA58750-11T	2P2261R.D	11/02/10	15:59	06:50	(used for QC only; not part of job JA58750)
OP46301-MS	2P2262.D	11/02/10	16:25	07:16	Matrix Spike
OP46301-MSD	2P2263.D	11/02/10	16:50	07:41	Matrix Spike Duplicate
JA58750-13	2P2264.D	11/02/10	17:16	08:07	BBNP-CW11-C
ZZZZZZ	2P2264R.D	11/02/10	17:16	08:07	(unrelated sample)
JA58750-14	2P2265.D	11/02/10	17:42	08:33	BBNP-CW14-C
ZZZZZZ	2P2265R.D	11/02/10	17:42	08:33	(unrelated sample)
JA58750-15	2P2266.D	11/02/10	18:07	08:58	BBNP-CW17-C
ZZZZZZ	2P2266R.D	11/02/10	18:07	08:58	(unrelated sample)
JA58750-16	2P2267.D	11/02/10	18:33	09:24	BBNP-CW20-C
ZZZZZZ	2P2267R.D	11/02/10	18:33	09:24	(unrelated sample)
JA58750-17	2P2268.D	11/02/10	19:24	10:15	BBNP-CW23-C
ZZZZZZ	2P2268R.D	11/02/10	19:24	10:15	(unrelated sample)
JA58750-18	2P2269.D	11/02/10	20:16	11:07	BBNP-CW20-C-FD
ZZZZZZ	2P2269R.D	11/02/10	20:16	11:07	(unrelated sample)
ZZZZZZ	2P2276.D	11/02/10	20:41	11:32	(unrelated sample)
JA58750-7	2P2270.D	11/02/10	21:07	11:58	BBNP-CW12-C
ZZZZZZ	2P2270R.D	11/02/10	21:07	11:58	(unrelated sample)

7.4.3

7

**Instrument Performance Check (DFTPP)**

Page 1 of 2

**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA**Sample:** E2P128-DFTPP**Injection Date:** 11/03/10**Lab File ID:** 2P2277.D**Injection Time:** 11:27**Instrument ID:** GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	57849	47.8	Pass
68	Less than 2.0% of mass 69	1168	0.97 (1.84) <sup>a</sup>	Pass
69	Mass 69 relative abundance	63452	52.5	Pass
70	Less than 2.0% of mass 69	281	0.23 (0.44) <sup>a</sup>	Pass
127	40.0 - 60.0% of mass 198	68744	56.9	Pass
197	Less than 1.0% of mass 198	278	0.23	Pass
198	Base peak, 100% relative abundance	120909	100.0	Pass
199	5.0 - 9.0% of mass 198	8441	6.98	Pass
275	10.0 - 30.0% of mass 198	24757	20.5	Pass
365	1.0 - 100.0% of mass 198	3016	2.49	Pass
441	Present, but less than mass 443	10696	8.85 (79.4) <sup>b</sup>	Pass
442	40.0 - 100.0% of mass 198	70483	58.3	Pass
443	17.0 - 23.0% of mass 442	13466	11.1 (19.1) <sup>c</sup>	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P128-CC117	2P2278.D	11/03/10	12:03	00:36	Continuing cal 25
E2P128-CC118	2P2279.D	11/03/10	13:24	01:57	Continuing cal 25
JA58750-10	2P2280.D	11/03/10	13:50	02:23	BBNP-CW21-C
ZZZZZZ	2P2280R.D	11/03/10	13:50	02:23	(unrelated sample)
JA58750-12	2P2281.D	11/03/10	14:16	02:49	BBNP-CW8-C
ZZZZZZ	2P2281R.D	11/03/10	14:16	02:49	(unrelated sample)
ZZZZZZ	2P2282.D	11/03/10	14:41	03:14	(unrelated sample)
ZZZZZZ	2P2283.D	11/03/10	15:07	03:40	(unrelated sample)
ZZZZZZ	2P2284.D	11/03/10	15:33	04:06	(unrelated sample)
ZZZZZZ	2P2285.D	11/03/10	15:58	04:31	(unrelated sample)
ZZZZZZ	2P2286.D	11/03/10	16:24	04:57	(unrelated sample)
ZZZZZZ	2P2287.D	11/03/10	16:50	05:23	(unrelated sample)
ZZZZZZ	2P2288.D	11/03/10	17:15	05:48	(unrelated sample)
ZZZZZZ	2P2289.D	11/03/10	17:41	06:14	(unrelated sample)
ZZZZZZ	2P2290.D	11/03/10	18:07	06:40	(unrelated sample)
ZZZZZZ	2P2291.D	11/03/10	18:32	07:05	(unrelated sample)
ZZZZZZ	2P2305.D	11/03/10	19:50	08:23	(unrelated sample)
ZZZZZZ	2P2307.D	11/03/10	20:47	09:20	(unrelated sample)
ZZZZZZ	2P2294.D	11/03/10	21:17	09:50	(unrelated sample)

## Instrument Performance Check (DFTPP)

Page 2 of 2

**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

**Sample:** E2P128-DFTPP

**Injection Date:** 11/03/10

**Lab File ID:** 2P2277.D

**Injection Time:** 11:27

**Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2P2308.D	11/03/10	22:28	11:01	(unrelated sample)
ZZZZZZ	2P2296.D	11/03/10	23:19	11:52	(unrelated sample)

7.4.4

7

# Semivolatile Internal Standard Area Summary

Page 1 of 2

**Job Number:** JA58750  
**Account:** ENSRMAA AECOM, INC.  
**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

<b>Check Std:</b>	E2P127-CC117	<b>Injection Date:</b>	11/02/10
<b>Lab File ID:</b>	2P2248.D	<b>Injection Time:</b>	09:21
<b>Instrument ID:</b>	GCMS2P	<b>Method:</b>	SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	70489	5.06	262115	6.98	145484	9.74	228695	12.03	222505	15.84	182520	17.49
Upper Limit <sup>a</sup>	140978	5.56	524230	7.48	290968	10.24	457390	12.53	445010	16.34	365040	17.99
Lower Limit <sup>b</sup>	35245	4.56	131058	6.48	72742	9.24	114348	11.53	111253	15.34	91260	16.99

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP46301-MB1	45823	5.06	183327	6.98	104410	9.73	165231	12.03	152912	15.84	130179	17.49
OP46301-BS1	83135	5.06	320183	6.98	178982	9.74	284654	12.03	278265	15.84	224564	17.49
JA58750-1	76764	5.07	282595	6.98	157850	9.73	253333	12.03	230239	15.84	196319	17.49
ZZZZZZ												
JA58750-2	91288	5.07	357239	6.98	206553	9.73	329581	12.03	300590	15.84	249058	17.49
ZZZZZZ												
JA58750-3	71112	5.07	275492	6.98	152421	9.73	243641	12.03	232807	15.84	197801	17.49
ZZZZZZ												
JA58750-4	115007	5.07	445685	6.98	262077	9.73	429490	12.03	413049	15.84	340039	17.49
ZZZZZZ												
JA58750-5	66946	5.07	254324	6.98	140896	9.73	220985	12.03	197467	15.84	162099	17.49
ZZZZZZ												
JA58750-6	112015	5.07	428837	6.98	244248	9.73	396123	12.03	361454	15.84	300851	17.49
ZZZZZZ												
JA58750-8	81431	5.06	311180	6.98	176191	9.73	286173	12.03	265742	15.84	220807	17.49
ZZZZZZ												
JA58750-9	92890	5.07	352478	6.98	205101	9.73	324158	12.02	298743	15.84	251392	17.49
ZZZZZZ												
JA58750-11	117757	5.07	461610	6.98	264177	9.73	425836	12.03	389187	15.84	303309	17.49
JA58750-11T												
OP46301-MS	115929	5.06	453058	6.98	257262	9.73	409351	12.03	406358	15.84	320797	17.49
OP46301-MSD	112732	5.06	447627	6.98	253702	9.73	404574	12.03	406872	15.84	324738	17.49
JA58750-13	77826	5.07	308755	6.98	185155	9.73	292369	12.03	256378	15.84	204719	17.49
ZZZZZZ												
JA58750-14	137186 <sup>c</sup>	5.06	538629 <sup>c</sup>	6.98	314632 <sup>c</sup>	9.74	509405 <sup>c</sup>	12.03	459837 <sup>c</sup>	15.84	359975 <sup>c</sup>	17.49
ZZZZZZ												
JA58750-15	89757	5.06	355880	6.98	209707	9.73	332344	12.03	294806	15.84	227089	17.49
ZZZZZZ												
JA58750-16	113197	5.07	442313	6.98	257789	9.73	416210	12.03	375326	15.84	315785	17.49
ZZZZZZ												
JA58750-17	140532 <sup>c</sup>	5.06	549370 <sup>c</sup>	6.98	321286 <sup>c</sup>	9.73	506683 <sup>c</sup>	12.03	464414 <sup>c</sup>	15.84	390040 <sup>c</sup>	17.49
ZZZZZZ												
JA58750-18	68849	5.07	264325	6.98	155461	9.73	250396	12.03	231783	15.84	188786	17.49
ZZZZZZ												
ZZZZZZ	81709	5.07	356107	6.99	207066	9.75	331805	12.04	286611	15.84	248731	17.49

7.5.1

7

# Semivolatile Internal Standard Area Summary

Page 2 of 2

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	E2P127-CC117	Injection Date:	11/02/10
Lab File ID:	2P2248.D	Injection Time:	09:21
Instrument ID:	GCMS2P	Method:	SW846 8270C

Lab	IS 1	IS 2	IS 3	IS 4	IS 5	IS 6
Sample ID	AREA	RT	AREA	RT	AREA	RT
JA58750-7	73534	5.07	288500	6.98	170694	9.73
ZZZZZZ	267932	12.03	245630	15.84	199028	17.49

IS 1 = 1,4-Dichlorobenzene-d4  
IS 2 = Naphthalene-d8  
IS 3 = Acenaphthene-D10  
IS 4 = Phenanthrene-d10  
IS 5 = Chrysene-d12  
IS 6 = Perylene-d12

- (a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.  
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.  
(c) double spiked.

7.5.1

7

# Semivolatile Internal Standard Area Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	E2P128-CC117	Injection Date:	11/03/10
Lab File ID:	2P2278.D	Injection Time:	12:03
Instrument ID:	GCMS2P	Method:	SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	117376	5.05	433820	6.97	233367	9.72	362795	12.01	374881	15.82	304128	17.47
Upper Limit <sup>a</sup>	234752	5.55	867640	7.47	466734	10.22	725590	12.51	749762	16.32	608256	17.97
Lower Limit <sup>b</sup>	58688	4.55	216910	6.47	116684	9.22	181398	11.51	187441	15.32	152064	16.97

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
JA58750-10	113447	5.05	425386	6.96	234483	9.72	366598	12.00	329246	15.82	268566	17.47
ZZZZZZ												
JA58750-12	94389	5.05	355770	6.96	199488	9.72	308016	12.00	287939	15.82	219233	17.47
ZZZZZZ												
ZZZZZZ	96100	5.05	362272	6.96	198621	9.72	318989	12.00	296803	15.82	250748	17.47
ZZZZZZ	90898	5.05	363141	6.96	213832	9.71	342359	12.00	322285	15.82	274160	17.47
ZZZZZZ	113619	5.05	413469	6.96	231645	9.72	364558	12.01	352165	15.82	308226	17.47
ZZZZZZ	96396	5.05	360537	6.96	204158	9.71	318204	12.01	287758	15.82	240281	17.47
ZZZZZZ	92308	5.05	342712	6.96	191675	9.72	291493	12.00	269886	15.81	223067	17.47
ZZZZZZ	98684	5.05	384067	6.96	219424	9.71	339806	12.00	339292	15.82	288368	17.47
ZZZZZZ	101698	5.05	385690	6.96	217310	9.71	339758	12.00	332073	15.82	279523	17.47
ZZZZZZ	96103	5.05	366602	6.96	213255	9.71	332319	12.01	323570	15.82	278704	17.47
ZZZZZZ	96311	5.05	369497	6.96	210716	9.71	336195	12.01	321308	15.82	275671	17.47
ZZZZZZ	108549	5.05	423662	6.98	234028	9.73	384150	12.03	390784	15.83	313695	17.48
ZZZZZZ	113432	5.06	429351	6.97	235691	9.72	375209	12.01	361953	15.82	305913	17.47
ZZZZZZ	84452	5.05	318578	6.96	175274	9.72	277463	12.01	269655	15.82	228679	17.48
ZZZZZZ	109422	5.05	406382	6.97	221936	9.72	352782	12.01	345267	15.82	282123	17.47
ZZZZZZ	127348	5.06	399111	7.00	253427	9.77	278395	12.09	346127	15.90	364338	17.53
ZZZZZZ	121773	5.06	447657	6.97	244597	9.72	388941	12.01	376224	15.82	312790	17.47

IS 1 = 1,4-Dichlorobenzene-d4  
 IS 2 = Naphthalene-d8  
 IS 3 = Acenaphthene-D10  
 IS 4 = Phenanthrene-d10  
 IS 5 = Chrysene-d12  
 IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.  
 (b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: SW846 8270C

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JA58750-1	2P2252.D	45.0	35.0	36.0	52.0	51.0	53.0
JA58750-2	2P2253.D	53.0	48.0	44.0	58.0	54.0	66.0
JA58750-3	2P2254.D	44.0	37.0	38.0	49.0	49.0	58.0
JA58750-4	2P2255.D	41.0	34.0	38.0	45.0	42.0	57.0
JA58750-5	2P2256.D	48.0	39.0	38.0	53.0	51.0	68.0
JA58750-6	2P2257.D	63.0	56.0	50.0	70.0	65.0	79.0
JA58750-7	2P2270.D	54.0	44.0	41.0	53.0	49.0	61.0
JA58750-8	2P2258.D	44.0	36.0	41.0	48.0	48.0	64.0
JA58750-9	2P2259.D	44.0	36.0	38.0	50.0	47.0	62.0
JA58750-10	2P2280.D	54.0	50.0	45.0	61.0	57.0	68.0
JA58750-11	2P2261.D	55.0	48.0	44.0	58.0	57.0	71.0
JA58750-12	2P2281.D	38.0	34.0	35.0	41.0	39.0	53.0
JA58750-13	2P2264.D	47.0	35.0	38.0	49.0	49.0	70.0
JA58750-14	2P2265.D	94.0	78.0	60.0	98.0	92.0	107.0
JA58750-15	2P2266.D	59.0	47.0	39.0	59.0	57.0	72.0
JA58750-16	2P2267.D	55.0	46.0	49.0	63.0	60.0	72.0
JA58750-17	2P2268.D	50.0	41.0	40.0	53.0	48.0	58.0
JA58750-18	2P2269.D	64.0	53.0	59.0	65.0	61.0	79.0
OP46301-BS1	2P2251.D	84.0	80.0	89.0	96.0	93.0	107.0
OP46301-MB1	2P2250.D	95.0	85.0	74.0	91.0	86.0	104.0
OP46301-MS	2P2262.D	53.0	48.0	53.0	58.0	56.0	62.0
OP46301-MSD	2P2263.D	47.0	43.0	48.0	53.0	51.0	58.0

## Surrogate Compounds

## Recovery Limits

S1 = 2-Fluorophenol	30-109%
S2 = Phenol-d5	28-108%
S3 = 2,4,6-Tribromophenol	28-125%
S4 = Nitrobenzene-d5	28-113%
S5 = 2-Fluorobiphenyl	38-107%
S6 = Terphenyl-d14	31-116%

7.6.1

7

## Initial Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: E2P117-ICC117

Account: ENSRMAA AECOM, INC.

Lab FileID: 2P2045.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P117.M (RTE Integrator)  
 Title : Semi Volatile Extractables by GC/MS  
 Last Update : Thu Oct 21 19:26:00 2010  
 Response via : Initial Calibration

## Calibration Files

2 =2p2042.D 5 =2p2044.D 25 =2p2045.D 80 =2p2041.D  
 100 =2p2039.D 50 =2p2043.D 1 =2p2040.D 10 =2p2046.D

Compound	2	5	25	80	100	50	1	10	Avg %RSD
-----									
1) I 1,4-Dichlorobenzene-d	-----ISTD-----								
2) 1,4-Dioxane	0.454	0.495	0.540	0.483	0.465	0.479	0.470	0.463	0.481 5.61
3) Pyridine	1.492	1.374	1.461	1.418	1.410	1.344	1.701	1.430	1.454 7.56
4) N-Nitrosodim	0.829	0.821	0.878	0.833	0.839	0.799	0.946	0.829	0.847 5.40
5) 2-Fluorophen	1.238	1.208	1.342	1.327	1.342	1.244	1.408	1.264	1.296 5.25
6) Indene	1.869	1.841	1.994	1.924	1.895	1.819	2.115	1.933	1.924 4.94
7) Cumene	2.620	2.544	2.743	2.559	2.470	2.495	2.910	2.608	2.619 5.53
8) Phenol-d5	1.601	1.579	1.776	1.763	1.779	1.643	1.892	1.680	1.714 6.22
9) Phenol	1.712	1.669	1.862	1.856	1.865	1.735	2.002	1.767	1.808 5.97
10) Aniline	2.105	1.965	1.854	1.603	1.628	1.592		1.893	1.806 11.15
11) bis(2-Chloro	1.409	1.351	1.460	1.413	1.417	1.356	1.579	1.398	1.423 5.05
12) 2-Chlorophen	1.399	1.358	1.497	1.511	1.504	1.401	1.568	1.432	1.459 4.90
13) Decane	1.412	1.366	1.490	1.359	1.270	1.341	1.527	1.417	1.398 5.92
14) 1,3-Dichloro	1.563	1.486	1.602	1.535	1.489	1.469	1.730	1.516	1.549 5.51
15) 1,4-Dichloro	1.578	1.528	1.621	1.572	1.525	1.504	1.751	1.573	1.582 4.93
16) Benzyl alcoh	0.879	0.888	1.004	1.000	1.003	0.950	1.033	0.932	0.961 6.03
17) 1,2-Dichloro	1.512	1.416	1.566	1.531	1.461	1.462	1.699	1.479	1.516 5.77
18) Acetophenone	1.859	1.766	1.937	1.851	1.835	1.767	2.097	1.876	1.874 5.67
19) 2-Methylphen	1.198	1.174	1.317	1.282	1.282	1.228	1.347	1.244	1.259 4.69
20) 2,2'-oxybis(	0.475	0.464	0.496	0.483	0.470	0.461	0.537	0.481	0.483 5.03
21) 3&4-Methylph	1.239	1.249	1.420	1.407	1.420	1.323	1.404	1.331	1.349 5.58
22) n-Nitroso-di	0.962	0.941	1.028	0.986	0.939	0.942	1.093	0.998	0.986 5.44
23) Hexachloroet	0.468	0.463	0.508	0.489	0.477	0.471	0.508	0.480	0.483 3.59
24) I Naphthalene-d8	-----ISTD-----								
25) Nitrobenzene	0.396	0.388	0.419	0.406	0.398	0.392	0.447	0.403	0.406 4.73
26) Nitrobenzene	0.179	0.178	0.194	0.191	0.190	0.182	0.205	0.184	0.188 4.82
27) Quinoline	0.650	0.610	0.658	0.634	0.631	0.612	0.798	0.640	0.654 9.28
28) Isophorone	0.690	0.669	0.716	0.645	0.632	0.659	0.788	0.690	0.686 7.17
29) 2-Nitrophen	0.166	0.179	0.207	0.214	0.208	0.202	0.185	0.188	0.194 8.55
30) 2,4-Dimethyl	0.297	0.282	0.336	0.349	0.348	0.329	0.343	0.298	0.322 8.18
31) Benzoic acid			0.281	0.308	0.297	0.284		0.232	0.280 10.42
32) bis(2-Chloro	0.426	0.411	0.445	0.426	0.416	0.412	0.487	0.425	0.431 5.81
33) 2,4-Dichloro	0.266	0.268	0.300	0.304	0.302	0.287	0.307	0.282	0.289 5.66
34) 2,6-Dichloro	0.277	0.271	0.300	0.307	0.299	0.293	0.324	0.287	0.295 5.73
35) 1,3,5-Trichl	0.332	0.310	0.332	0.321	0.306	0.315	0.360	0.316	0.324 5.38
36) 1,2,4-Trichl	0.314	0.305	0.325	0.315	0.305	0.303	0.360	0.306	0.317 5.96
37) 1,2,3-Trichl	0.306	0.296	0.309	0.302	0.295	0.288	0.353	0.296	0.306 6.63
38) Naphthalene	1.137	1.069	1.126	1.084	1.030	1.050	1.296	1.088	1.110 7.50
39) 4-Chloroanil	0.465	0.462	0.490	0.465	0.441	0.458	0.541	0.472	0.474 6.40
40) 2,3-Dichloro	0.329	0.319	0.357	0.352	0.347	0.336	0.378	0.334	0.344 5.36
41) Caprolactam	0.103	0.107	0.120	0.117	0.117	0.112	0.129	0.115	0.115 7.00
42) Hexachlorobu	0.163	0.154	0.163	0.156	0.151	0.151	0.179	0.154	0.159 5.91
43) 4-Chloro-3-m	0.278	0.285	0.320	0.317	0.318	0.305	0.333	0.299	0.307 6.05
44) 2-Methylnaph	0.737	0.711	0.765	0.751	0.705	0.725	0.837	0.731	0.745 5.67
45) 1-Methylnaph	0.658	0.650	0.703	0.692	0.663	0.668	0.771	0.673	0.685 5.70



# Initial Calibration Summary

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample:

E2P117-ICC117

Lab FileID:

2P2045.D

Page 2 of 3

46)	Dimethylnaph	0.567	0.559	0.622	0.610	0.581	0.601	0.668	0.591	0.600	5.79
47)	I Acenaphthene-d10	-----ISTD-----									
48)	Hexachlorocy	0.183	0.234	0.263	0.251	0.236			0.209	0.229	12.63
49)	2,4,6-Trichl	0.326	0.316	0.370	0.386	0.377	0.360	0.381	0.343	0.357	7.38
50)	2,4,5-Trichl	0.292	0.328	0.375	0.395	0.392	0.368	0.378	0.341	0.359	9.93
51)	2-Fluorobiph	1.364	1.250	1.382	1.375	1.303	1.318	1.593	1.297	1.360	7.67
52)	2-Chloronaph	1.159	1.096	1.198	1.185	1.117	1.126	1.325	1.122	1.166	6.28
53)	Biphenyl	1.498	1.374	1.536	1.535	1.420	1.457	1.711	1.446	1.497	6.86
54)	2-Nitroanili	0.349	0.363	0.413	0.392	0.373	0.380	0.409	0.395	0.384	5.77
55)	Dimethylphth	1.299	1.240	1.345	1.304	1.274	1.256	1.558	1.289	1.321	7.66
56)	Acenaphthyle	1.746	1.699	1.930	1.943	1.831	1.853	2.055	1.795	1.856	6.24
57)	2,6-Dinitrot	0.215	0.244	0.288	0.300	0.300	0.278	0.254	0.268	0.269	10.97
58)	3-Nitroanili	0.322	0.343	0.375	0.395	0.380	0.367	0.399	0.359	0.367	7.06
59)	Acenaphthene	1.209	1.129	1.245	1.242	1.141	1.182	1.425	1.175	1.219	7.66
60)	2,4-Dinitrop	0.057	0.120	0.172	0.186	0.143			0.092	0.128	37.99
	----- Linear regression -----	Coefficient = 0.9908									
	Response Ratio = -0.06630 + 0.19120 *A										
61)	4-Nitropheno	0.145	0.199	0.211	0.206	0.194			0.179	0.189	12.79
62)	Dibenzofuran	1.651	1.551	1.660	1.653	1.589	1.568	1.960	1.586	1.652	7.94
63)	2,4-Dinitrot	0.304	0.345	0.398	0.407	0.410	0.382	0.364	0.376	0.373	9.56
64)	2,3,4,6-Tetr	0.247	0.252	0.296	0.318	0.317	0.287	0.303	0.274	0.287	9.41
65)	Diethylphtha	1.358	1.291	1.429	1.373	1.244	1.346	1.572	1.362	1.372	7.15
66)	Fluorene	1.214	1.179	1.313	1.339	1.261	1.266	1.422	1.246	1.280	5.97
67)	4-Chlorophen	0.591	0.557	0.622	0.614	0.562	0.590	0.685	0.575	0.599	6.89
68)	4-Nitroanili	0.286	0.317	0.366	0.365	0.358	0.345	0.361	0.332	0.341	8.24
69)	I Phenanthrene-d10	-----ISTD-----									
70)	4,6-Dinitro-	0.085	0.131	0.157	0.161	0.137			0.109	0.130	22.30
	----- Linear regression -----	Coefficient = 0.9967									
	Response Ratio = -0.01775 + 0.16499 *A										
71)	n-Nitrosodip	0.572	0.552	0.616	0.622	0.589	0.593	0.671	0.569	0.598	6.30
72)	1,2-Diphenyl	0.955	0.971	1.062	0.973	0.894	0.959	1.082	0.940	0.979	6.37
73)	2,4,6-Tribr	0.075	0.077	0.094	0.102	0.102	0.093	0.091	0.085	0.090	11.44
74)	4-Bromopheny	0.190	0.179	0.202	0.216	0.211	0.196	0.223	0.187	0.201	7.62
75)	Hexachlorobe	0.213	0.197	0.215	0.218	0.213	0.200	0.254	0.201	0.214	8.38
76)	Pentachlorop	0.094	0.118	0.145	0.164	0.161	0.149	0.118	0.127	0.135	17.94
	----- Linear regression -----	Coefficient = 0.9985									
	Response Ratio = -0.01352 + 0.16350 *A										
77)	Phenanthrene	1.217	1.104	1.200	1.192	1.132	1.143	1.444	1.135	1.196	8.99
78)	Anthracene	1.178	1.136	1.249	1.218	1.126	1.174	1.391	1.151	1.203	7.16
79)	Carbazole	1.067	1.009	1.117	1.131	1.087	1.077	1.287	1.032	1.101	7.76
80)	Di-n-butylph	1.215	1.271	1.451	1.441	1.350	1.390	1.436	1.332	1.361	6.29
81)	Fluoranthene	1.075	1.033	1.204	1.216	1.160	1.153	1.272	1.105	1.152	6.84
82)	Octadecane	0.312	0.317	0.362	0.344	0.316	0.340	0.369	0.338	0.337	6.35
83)	I Chrysene-d12	-----ISTD-----									
84)	Pyrene	1.215	1.173	1.271	1.227	1.151	1.184	1.419	1.190	1.229	6.95
85)	Terphenyl-d1	0.680	0.649	0.726	0.710	0.668	0.687	0.785	0.675	0.697	6.11
86)	Butylbenzylp	0.496	0.538	0.631	0.620	0.583	0.596	0.608	0.576	0.581	7.69
87)	Butyl steara	0.068	0.071	0.072	0.077	0.075	0.072		0.067	0.072	4.94
88)	Benzo[aj]anth	1.043	0.983	1.072	1.062	0.999	1.018	1.270	1.010	1.057	8.64
89)	3,3'-Dichlor	0.346	0.361	0.405	0.387	0.351	0.385	0.423	0.372	0.379	7.00
90)	Chrysene	1.057	1.010	1.129	1.002	0.899	1.030	1.277	1.021	1.053	10.52
91)	bis(2-Ethylh	0.704	0.736	0.875	0.849	0.792	0.839	0.849	0.790	0.804	7.46
92)	I Perylene-d12	-----ISTD-----									

## Initial Calibration Summary

**Job Number:** JA58750  
**Account:** ENSRMAA AECOM, INC.  
**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

**Sample:** E2P117-ICC117  
**Lab FileID:** 2P2045.D

Page 3 of 3

93)	Di-n-octylph	1.362	1.433	1.748	1.729	1.569	1.725	1.755	1.510	1.604	9.78
94)	Benzo[b]fluo	0.983	1.060	1.261	1.414		1.120	1.297	1.134	1.181	12.66
95)	Benzo[k]fluo	1.259	1.105	1.322	1.035		1.334	1.402	1.134	1.227	11.16
96)	Benzo[a]pyre	0.958	0.953	1.121	1.138	1.055	1.096	1.179	0.974	1.059	8.33
97)	Indeno[1,2,3	1.082	1.090	1.343	1.379	1.306	1.318	1.277	1.167	1.245	9.32
98)	Dibenz(a,h)a	0.733	0.755	0.933	0.984	0.945	0.937	0.897	0.806	0.874	10.93
99)	Dibenz[a,h]a	0.873	0.900	1.102	1.129	1.062	1.095	1.075	0.957	1.024	9.69
100)	7,12-Dimethy	0.373	0.379	0.544	0.505	0.446	0.510	0.430	0.427	0.452	13.84
101)	Benzo[g,h,i]	0.940	0.945	1.113	1.128	1.080	1.083	1.163	0.980	1.054	8.25

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

M2P117.M

Thu Oct 21 21:32:34 2010

RPT1

7.7.1

7

**Initial Calibration Summary**

Page 1 of 1

**Job Number:** JA58750**Sample:** E2P118-ICC118**Account:** ENSRMAA AECOM, INC.**Lab FileID:** 2P2050.D**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

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Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P118.M (RTE Integrator)  
Title : Semi Volatile Extractables by GC/MS  
Last Update : Thu Oct 21 19:26:00 2010  
Response via : Initial Calibration

## Calibration Files

2 =2p2054.D 5 =2p2053.D 25 =2p2051.D 80 =2p2049.D  
100 =2p2048.D 50 =2p2050.D 1 =2p2055.D 10 =2p2052.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
-----										
102) 1,4-Dichlorobenzene-d	-----ISTD-----									
103) Benzaldehyde	0.985	0.968	1.009	0.935	0.744	0.970	0.652	0.953	0.902	14.43
104) Acenaphthene-d10a	-----ISTD-----									
105) Atrazine	0.111	0.151	0.174	0.157	0.163		0.128	0.147		15.90
----- Linear regression ----- Coefficient = 0.9939										
Response Ratio = -0.00673 + 0.16667 *A										
106) Chrysene-d12a	-----ISTD-----									
107) Benzidine	0.347	0.517	0.423	0.359	0.443		0.412	0.417		14.84
108) Acenaphthene-d10b	-----ISTD-----									
109) 1,2,4,5-Tetr	0.474	0.469	0.500	0.524	0.486	0.505	0.343	0.458	0.470	11.85
-----										
(##) = Out of Range ### Number of calibration levels exceeded format ###										

M2P117.M

Mon Oct 25 16:10:23 2010

RPT1

7.7.2

7

## Initial Calibration Verification

Job Number: JA58750

Sample: E2P118-ICV117

Account: ENSRMAA AECOM, INC.

Lab FileID: 2P2057.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p118\2p2057.D

Vial: 11

Acq On : 21 Oct 2010 7:09 pm

Operator: kristis

Sample : icv117-50

Inst : MS2P

Misc : op45931,e2p118,bn#1 2nd source

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P117.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Oct 21 19:26:00 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	77	0.00	5.15
3 t	Pyridine	1.454	1.572	-8.1	90	-0.03	1.73
4 t	N-Nitrosodimethylamine	0.847	0.927	-9.4	89	-0.01	1.74
11 t	bis(2-Chloroethyl)ether	1.423	1.398	1.8	79	0.00	4.88
14 t	1,3-Dichlorobenzene	1.549	1.600	-3.3	84	0.00	5.09
15 t	1,4-Dichlorobenzene	1.582	1.651	-4.4	84	0.00	5.17
16 t	Benzyl alcohol	0.961	0.959	0.2	78	0.00	5.44
17 t	1,2-Dichlorobenzene	1.516	1.571	-3.6	83	0.00	5.44
20 t	2,2'-oxybis(1-Chloropropa	0.483	0.490	-1.4	82	0.00	5.68
22 t	n-Nitroso-di-n-propylamin	0.986	0.998	-1.2	81	0.00	5.89
23 t	Hexachloroethane	0.483	0.516	-6.8	84	0.00	5.89
24 I	Naphthalene-d8	1.000	1.000	0.0	75	0.00	7.06
26 t	Nitrobenzene	0.188	0.192	-2.1	79	0.00	6.04
28 t	Isophorone	0.686	0.760	-10.8	86	0.00	6.42
32 t	bis(2-Chloroethoxy)methan	0.431	0.473	-9.7	86	0.00	6.83
36 t	1,2,4-Trichlorobenzene	0.317	0.339	-6.9	84	0.00	7.02
38 t	Naphthalene	1.110	1.151	-3.7	82	0.00	7.09
42 t	Hexachlorobutadiene	0.159	0.171	-7.5	84	0.00	7.43
44 t	2-Methylnaphthalene	0.745	0.733	1.6	76	0.00	8.17
47 I	Acenaphthene-d10	1.000	1.000	0.0	72	0.00	9.81
48 t	Hexachlorocyclopentadiene	0.115	0.145	-26.1#	88	0.00	8.56
52 t	2-Chloronaphthalene	1.166	1.226	-5.1	78	0.00	8.92
54 t	2-Nitroaniline	0.384	0.374	2.6	71	0.00	9.18
55 t	Dimethylphthalate	1.321	1.340	-1.4	77	0.00	9.58
56 t	Acenaphthylene	1.856	1.891	-1.9	73	0.00	9.56
57 t	2,6-Dinitrotoluene	0.269	0.286	-6.3	74	0.00	9.65
58 t	3-Nitroaniline	0.367	0.327	10.9	64	0.00	9.84
59 t	Acenaphthene	1.219	1.300	-6.6	79	0.00	9.86
62 t	Dibenzofuran	1.652	1.699	-2.8	78	0.00	10.12
63 t	2,4-Dinitrotoluene	0.373	0.363	2.7	68	0.00	10.24
65 t	Diethylphthalate	1.372	1.429	-4.2	76	0.00	10.71
66 t	Fluorene	1.280	1.394	-8.9	79	0.00	10.65
67 t	4-Chlorophenyl-phenylethe	0.599	0.634	-5.8	77	0.00	10.72
68 t	4-Nitroaniline	0.341	0.341	0.0	71	0.00	10.81
69 I	Phenanthrene-d10	1.000	1.000	0.0	69	0.00	12.10
	----- AvgRF	CCRF	% Dev	-----			
71 t	n-Nitrosodiphenylamine	0.598	0.637	-6.5	75	0.00	10.93

# Initial Calibration Verification

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P118-ICV117  
Lab FileID: 2P2057.D

Page 2 of 2

72	t	1,2-Diphenylhydrazine	0.979	1.118	-14.2	81	0.00	10.96
74	t	4-Bromophenyl-phenylether	0.201	0.215	-7.0	76	0.00	11.47
75	t	Hexachlorobenzene	0.214	0.224	-4.7	77	0.00	11.65
77	t	Phenanthrene	1.196	1.277	-6.8	77	0.00	12.14
78	t	Anthracene	1.203	1.294	-7.6	76	0.00	12.20
79	t	Carbazole	1.101	1.167	-6.0	75	0.00	12.52
80	t	Di-n-butylphthalate	1.361	1.453	-6.8	73	0.00	13.30
81	t	Fluoranthene	1.152	1.218	-5.7	73	0.00	13.96
83	I	Chrysene-d12	1.000	1.000	0.0	65	0.00	15.90
84	t	Pyrene	1.229	1.371	-11.6	75	0.00	14.26
86	t	Butylbenzylphthalate	0.581	0.636	-9.5	69	0.00	15.36
88	t	Benzo[a]anthracene	1.057	1.088	-2.9	69	0.00	15.88
90	t	Chrysene	1.053	1.144	-8.6	72	0.00	15.93
91	t	bis(2-Ethylhexyl)phthalat	0.804	0.875	-8.8	67	0.00	16.17
92	I	Perylene-d12	1.000	1.000	0.0	64	0.00	17.55
93	t	Di-n-octylphthalate	1.604	1.771	-10.4	65	0.00	16.90
94	t	Benzo[b]fluoranthene	1.181	1.321	-11.9	75	0.00	17.16
95	t	Benzo[k]fluoranthene	1.227	1.240	-1.1	59	0.00	17.19
96	t	Benzo[a]pyrene	1.059	1.198	-13.1	70	0.00	17.49
97	t	Indeno[1,2,3-cd]pyrene	1.245	1.373	-10.3	66	0.00	18.64
99	t	Dibenz[a,h]anthracene	1.024	1.136	-10.9	66	0.00	18.67
101	t	Benzo[g,h,i]perylene	1.054	1.153	-9.4	68	0.01	18.93

(#) = Out of Range  
2p2050.D M2P117.M

SPCC's out = 0 CCC's out = 0  
Tue Oct 26 17:57:03 2010 RPT1

7.7.3

7

## Initial Calibration Verification

Page 1 of 1

Job Number: JA58750

Sample: E2P118-ICV118

Account: ENSRMAA AECOM, INC.

Lab FileID: 2P2057A.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p118\2p2057a.D Vial: 11  
Acq On : 21 Oct 2010 7:09 pm Operator: kristis  
Sample : icv118-50 Inst : MS2P  
Misc : op45931,e2p118,bn#1 2nd source Multiplr: 1.00  
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P117.M (RTE Integrator)  
Title : Semi Volatile Extractables by GC/MS  
Last Update : Thu Oct 21 19:26:00 2010  
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)	R.T.
108	Acenaphthene-d10b	1.000	1.000	0.0	109	0.00	9.81
109	1,2,4,5-Tetrachlorobenzen	0.470	0.543	-15.5	117	0.00	8.50

(#) = Out of Range  
2p2050.D M2P117.M

SPCC's out = 0 CCC's out = 0  
Tue Oct 26 18:01:59 2010 RPT1

7.7.4

7

## Initial Calibration Verification

Job Number: JA58750  
Account: ENSRMAA AECOM, INC.  
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P118-ICV117  
Lab FileID: 2P2059.D

Page 1 of 1

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p118\2p2059.D Vial: 13  
Acq On : 21 Oct 2010 8:00 pm Operator: kristis  
Sample : icv117-50 Inst : MS2P  
Misc : op45931,e2p118,3rd source Multiplr: 1.00  
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P117.M (RTE Integrator)  
Title : Semi Volatile Extractables by GC/MS  
Last Update : Thu Oct 21 19:26:00 2010  
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	5.15
10	Aniline	1.806	1.915	-6.0	126	0.00	4.76
24 I	Naphthalene-d8	1.000	1.000	0.0	107	0.00	7.06
39 t	4-Chloroaniline	0.474	0.443	6.5	104	0.00	7.27

(#) = Out of Range  
2p2050.D M2P117.M

SPCC's out = 0 CCC's out = 0  
Thu Oct 21 21:10:30 2010 RPT1

7.7.5

7

## Initial Calibration Verification

Page 1 of 1

Job Number: JA58750

Sample: E2P118-ICV117

Account: ENSRMAA AECOM, INC.

Lab FileID: 2P2058.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p118\2p2058.D

Vial: 12

Acq On : 21 Oct 2010 8:26 pm

Operator: kristis

Sample : icv117-50

Inst : MS2P

Misc : op45931,e2p118,bn#2 2nd source

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P117.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Thu Oct 21 19:26:00 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	75	0.00	5.14
2 t	1,4-Dioxane	0.481	0.517	-7.5	81	-0.02	1.43
6 t	Indene	1.924	1.833	4.7	76	0.00	5.56
7 t	Cumene	2.619	2.364	9.7	71	0.00	4.07
13 t	Decane	1.398	1.399	-0.1	78	0.00	5.04
18 t	Acetophenone	1.874	1.981	-5.7	84	0.00	5.81
24 I	Naphthalene-d8	1.000	1.000	0.0	73	0.00	7.06
27 t	Quinoline	0.654	0.708	-8.3	85	0.00	7.62
40 t	2,3-Dichloroaniline	0.344	0.305	11.3	67	0.00	8.69
41 t	Caprolactam	0.115	0.108	6.1	71	-0.03	7.74
45 t	1-Methylnaphthalene	0.685	0.704	-2.8	77	0.00	8.33
46 t	Dimethylnaphthalene	0.600	0.630	-5.0	77	0.00	9.17
47 I	Acenaphthene-d10	1.000	1.000	0.0	72	0.00	9.81
53 t	Biphenyl	1.497	1.542	-3.0	76	0.00	8.94
69 I	Phenanthrene-d10	1.000	1.000	0.0	70	0.00	12.10
82 t	Octadecane	0.337	0.374	-11.0	76	0.00	12.18
92 I	Perylene-d12	1.000	1.000	0.0	56	0.00	17.55
100 t	7,12-Dimethylbenz(a)anthr	0.452	0.504	-11.5	55	0.00	17.18

(# ) = Out of Range

SPCC's out = 0 CCC's out = 0

2p2050.D M2P117.M

Tue Oct 26 18:02:49 2010 RPT1



**Initial Calibration Verification**

Page 1 of 1

**Job Number:** JA58750**Sample:** E2P118-ICV118**Account:** ENSRMAA AECOM, INC.**Lab FileID:** 2P2058A.D**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p118\2p2058a.D Vial: 12  
Acq On : 21 Oct 2010 8:26 pm Operator: kristis  
Sample : icv118-50 Inst : MS2P  
Misc : op45931,e2p118,bn#2 2nd source Multiplr: 1.00  
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P117.M (RTE Integrator)  
Title : Semi Volatile Extractables by GC/MS  
Last Update : Thu Oct 21 19:26:00 2010  
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	116	0.00	5.14
103	Benzaldehyde	0.902	1.027	-13.9	123	-0.02	4.53
104	Acenaphthene-d10a	1.000	1.000	0.0	109	0.00	9.81
	----- True Calc. % Drift -----						
105	Atrazine	50.000	48.455	3.1	105	-0.02	11.89

(#) = Out of Range  
2p2050.D M2P117.M

SPCC's out = 0 CCC's out = 0  
Tue Oct 26 18:04:53 2010 RPT1

## Initial Calibration Verification

Page 1 of 1

Job Number: JA58750

Sample: E2P118-ICV117

Account: ENSRMAA AECOM, INC.

Lab FileID: 2P2060.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p118\2p2060.D Vial: 14  
Acq On : 21 Oct 2010 8:52 pm Operator: kristis  
Sample : icv117-50 Inst : MS2P  
Misc : op45931,e2p118,benzidine Multiplr: 1.00  
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P117.M (RTE Integrator)  
Title : Semi Volatile Extractables by GC/MS  
Last Update : Thu Oct 21 19:26:00 2010  
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	65	0.00	15.90
89 t	3,3'-Dichlorobenzidine	0.379	0.375	1.1	64	0.00	15.93
106	Chrysene-d12a	1.000	1.000	0.0	105	0.00	15.90
107	Benzidine	0.417	0.774	-85.6#	184	0.00	14.24

(#) = Out of Range  
2p2050.D M2P117.M

SPCC's out = 0 CCC's out = 0  
Thu Oct 21 21:24:38 2010 RPT1

7.7.8

7

**Initial Calibration Verification**

Page 1 of 1

**Job Number:** JA58750**Sample:** E2P118-ICV118**Account:** ENSRMAA AECOM, INC.**Lab FileID:** 2P2060A.D**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p2060a.d

Vial: 14

Acq On : 21 Oct 2010 8:52 pm

Operator: kristis

Sample : icv118-50

Inst : MS2P

Misc : op45931,e2p118,benzidine

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P117.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Mon Dec 06 14:24:35 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	65	0.00	15.90
89 t	3,3'-Dichlorobenzidine	0.379	0.375	1.1	64	0.00	15.93
-----							
		AvgRF	CCRF	% Dev			
106	Chrysene-d12a	1.000	1.000	0.0	105	0.00	15.90
107	Benzidine	0.417	0.774	-85.6#	184	0.00	14.24

(# ) = Out of Range

2p2817.D M2P117.M

SPCC's out = 0 CCC's out = 0

Wed Dec 22 15:08:34 2010 RPT1

7.7.9

7

## Initial Calibration Verification

Job Number: JA58750

Sample: E2P119-ICV118

Account: ENSRMAA AECOM, INC.

Lab FileID: 2P2064.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p119\2p2064.D Vial: 4  
 Acq On : 22 Oct 2010 12:12 pm Operator: kristis  
 Sample : icv118-50 Inst : MS2P  
 Misc : op45931,e2p119,1000,,,1,1 Multiplr: 1.00  
 MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P117.M (RTE Integrator)  
 Title : Semi Volatile Extractables by GC/MS  
 Last Update : Tue Oct 26 21:47:33 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	132	0.00	5.14
9 t	Phenol	1.808	1.728	4.4	131	0.00	4.82
12 t	2-Chlorophenol	1.459	1.424	2.4	134	0.00	4.90
19 t	2-Methylphenol	1.259	1.235	1.9	132	0.00	5.68
21 t	3&4-Methylphenol	1.349	1.328	1.6	132	0.00	5.91
24 I	Naphthalene-d8	1.000	1.000	0.0	138	-0.01	7.05
29 t	2-Nitrophenol	0.194	0.177	8.8	120	0.00	6.53
30 t	2,4-Dimethylphenol	0.322	0.342	-6.2	143	0.00	6.70
31 t	Benzoic acid	0.280	0.245	12.5	119	0.04	7.00
33 t	2,4-Dichlorophenol	0.289	0.278	3.8	134	0.00	6.90
34 t	2,6-Dichlorophenol	0.295	0.275	6.8	129	-0.01	7.26
43 t	4-Chloro-3-methylphenol	0.307	0.290	5.5	131	-0.01	8.09
47 I	Acenaphthene-d10	1.000	1.000	0.0	133	0.00	9.81
49 t	2,4,6-Trichlorophenol	0.357	0.337	5.6	124	0.00	8.69
50 t	2,4,5-Trichlorophenol	0.359	0.375	-4.5	135	-0.01	8.74
60 t	2,4-Dinitrophenol	True 50.000	Calc. 46.025	% Drift 7.9	114	0.00	9.99
61 t	4-Nitrophenol	AvgRF 0.189	CCRF 0.182	% Dev 3.7	124	0.00	10.19
64	2,3,4,6-Tetrachlorophenol	0.287	0.257	10.5	119	0.00	10.41
69 I	Phenanthrene-d10	1.000	1.000	0.0	133	0.00	12.10
70 t	4,6-Dinitro-2-methylpheno	True 50.000	Calc. 42.205	% Drift 15.6	121	0.00	10.86

7.7.10

7

# Initial Calibration Verification

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P119-ICV118

Lab FileID: 2P2064.D

Page 2 of 2

	----- True	Calc.	% Drift	-----
76 t Pentachlorophenol	50.000	43.878	12.2 118	0.00 11.95

(#) = Out of Range

2p2050.D M2P117.M

SPCC's out = 0 CCC's out = 0

Wed Oct 27 10:03:38 2010 RPT1

7.7.10

7

## Continuing Calibration Summary

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P127-CC117

Lab FileID: 2P2248.D

Page 1 of 3

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p127\2p2248.D Vial: 2  
 Acq On : 2 Nov 2010 9:21 am Operator: ninap  
 Sample : cc117-25 Inst : MS2P  
 Misc : op45931,e2p127,1000,,,1,1 Multiplr: 1.00  
 MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P117.M (RTE Integrator)  
 Title : Semi Volatile Extractables by GC/MS  
 Last Update : Tue Nov 02 09:47:13 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	-0.09	5.06
2 t	1,4-Dioxane	0.481	0.568	-18.1	120	-0.09	1.36
3 t	Pyridine	1.454	1.478	-1.7	116	-0.09	1.67
4 t	N-Nitrosodimethylamine	0.847	0.940	-11.0	122	-0.09	1.66
5 S	2-Fluorophenol	1.296	1.287	0.7	110	-0.05	3.41
6 t	Indene	1.924	1.964	-2.1	112	-0.09	5.48
7 t	Cumene	2.619	2.779	-6.1	116	-0.09	3.99
8 S	Phenol-d5	1.714	1.774	-3.5	114	-0.04	4.78
9 t	Phenol	1.808	1.829	-1.2	112	-0.04	4.79
10	Aniline	1.806	1.648	8.7	101	-0.08	4.68
11 t	bis(2-Chloroethyl)ether	1.423	1.487	-4.5	116	-0.09	4.80
12 t	2-Chlorophenol	1.459	1.419	2.7	108	-0.06	4.84
13 t	Decane	1.398	1.600	-14.4	123	-0.09	4.96
14 t	1,3-Dichlorobenzene	1.549	1.535	0.9	109	0.00	5.01
15 t	1,4-Dichlorobenzene	1.582	1.596	-0.9	112	-0.09	5.09
16 t	Benzyl alcohol	0.961	0.908	5.5	103	-0.07	5.37
17 t	1,2-Dichlorobenzene	1.516	1.498	1.2	109	-0.09	5.35
18 t	Acetophenone	1.874	1.830	2.3	108	-0.08	5.73
19 t	2-Methylphenol	1.259	1.215	3.5	105	-0.04	5.64
20 t	2,2'-oxybis(1-Chloropropa	0.483	0.470	2.7	108	-0.08	5.60
21 t	3&4-Methylphenol	1.349	1.258	6.7	101	-0.04	5.87
22 t	n-Nitroso-di-n-propylamin	0.986	1.076	-9.1	120	-0.09	5.81
23 t	Hexachloroethane	0.483	0.490	-1.4	110	-0.09	5.80
24 I	Naphthalene-d8	1.000	1.000	0.0	111	-0.09	6.98
25 S	Nitrobenzene-d5	0.406	0.438	-7.9	116	-0.08	5.94
26 t	Nitrobenzene	0.188	0.187	0.5	107	-0.08	5.97
27 t	Quinoline	0.654	0.631	3.5	107	-0.07	7.55
28 t	Isophorone	0.686	0.733	-6.9	114	-0.08	6.34
29 t	2-Nitrophenol	0.194	0.200	-3.1	108	-0.08	6.46
30 t	2,4-Dimethylphenol	0.322	0.319	0.9	106	-0.05	6.65
31 t	Benzoic acid	0.280	0.227	18.9	90	-0.08	6.88
32 t	bis(2-Chloroethoxy)methan	0.431	0.437	-1.4	109	-0.08	6.75
33 t	2,4-Dichlorophenol	0.289	0.276	4.5	102	-0.05	6.86
34 t	2,6-Dichlorophenol	0.295	0.282	4.4	105	-0.06	7.20
35	1,3,5-Trichlorobenzene	0.324	0.322	0.6	108	-0.08	6.46
36 t	1,2,4-Trichlorobenzene	0.317	0.312	1.6	107	-0.08	6.94
37	1,2,3-Trichlorobenzene	0.306	0.298	2.6	107	-0.08	7.31
38 t	Naphthalene	1.110	1.101	0.8	109	-0.08	7.01
39 t	4-Chloroaniline	0.474	0.455	4.0	103	-0.07	7.20
40 t	2,3-Dichloroaniline	0.344	0.337	2.0	105	-0.06	8.62
41 t	Caprolactam	0.115	0.119	-3.5	111	-0.08	7.70

# Continuing Calibration Summary

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P127-CC117

Lab FileID: 2P2248.D

Page 2 of 3

42 t	Hexachlorobutadiene	0.159	0.157	1.3	107	-0.08	7.35
43 t	4-Chloro-3-methylphenol	0.307	0.320	-4.2	111	-0.03	8.07
44 t	2-Methylnaphthalene	0.745	0.810	-8.7	118	-0.08	8.10
45 t	1-Methylnaphthalene	0.685	0.687	-0.3	109	-0.08	8.26
46 t	Dimethylnaphthalene	0.600	0.592	1.3	106	-0.08	9.09
47 I	Acenaphthene-d10	1.000	1.000	0.0	109	-0.07	9.74
48 t	Hexachlorocyclopentadiene	0.229	0.214	6.6	99	-0.08	8.48
49 t	2,4,6-Trichlorophenol	0.357	0.347	2.8	102	-0.05	8.64
50 t	2,4,5-Trichlorophenol	0.359	0.373	-3.9	108	-0.06	8.72
51 S	2-Fluorobiphenyl	1.360	1.369	-0.7	108	-0.07	8.75
52 t	2-Chloronaphthalene	1.166	1.170	-0.3	106	-0.08	8.84
53 t	Biphenyl	1.497	1.521	-1.6	108	-0.07	8.87
54 t	2-Nitroaniline	0.384	0.431	-12.2	113	-0.06	9.11
55 t	Dimethylphthalate	1.321	1.330	-0.7	107	-0.08	9.50
56 t	Acenaphthylene	1.856	1.935	-4.3	109	-0.07	9.49
57 t	2,6-Dinitrotoluene	0.269	0.282	-4.8	106	-0.06	9.58
58 t	3-Nitroaniline	0.367	0.352	4.1	102	-0.05	9.78
59 t	Acenaphthene	1.219	1.251	-2.6	109	-0.08	9.78
----- True Calc. % Drift -----							
60 t	2,4-Dinitrophenol	50.000	45.068	9.9	108	-0.05	9.94
----- AvgRF CCRF % Dev -----							
61 t	4-Nitrophenol	0.189	0.145	23.3#	79	0.03	10.23
62 t	Dibenzofuran	1.652	1.639	0.8	107	-0.07	10.04
63 t	2,4-Dinitrotoluene	0.373	0.384	-2.9	105	-0.06	10.18
64 t	2,3,4,6-Tetrachlorophenol	0.287	0.277	3.5	102	-0.05	10.36
65 t	Diethylphthalate	1.372	1.436	-4.7	109	-0.07	10.64
66 t	Fluorene	1.280	1.310	-2.3	108	-0.07	10.58
67 t	4-Chlorophenyl-phenylethe	0.599	0.591	1.3	103	-0.07	10.65
68 t	4-Nitroaniline	0.341	0.341	0.0	101	-0.05	10.75
69 I	Phenanthrene-d10	1.000	1.000	0.0	110	-0.08	12.03
----- True Calc. % Drift -----							
70 t	4,6-Dinitro-2-methylpheno	25.000	23.989	4.0	109	-0.06	10.81
----- AvgRF CCRF % Dev -----							
71 t	n-Nitrosodiphenylamine	0.598	0.597	0.2	106	-0.07	10.86
72 t	1,2-Diphenylhydrazine	0.979	1.091	-11.4	113	-0.07	10.88
73 S	2,4,6-Tribromophenol	0.090	0.089	1.1	104	-0.06	11.00
74 t	4-Bromophenyl-phenylether	0.201	0.199	1.0	107	-0.08	11.40
75 t	Hexachlorobenzene	0.214	0.210	1.9	107	-0.07	11.57
----- True Calc. % Drift -----							
76 t	Pentachlorophenol	50.000	40.797	18.4	93	-0.06	11.90
----- AvgRF CCRF % Dev -----							
77 t	Phenanthrene	1.196	1.173	1.9	107	-0.08	12.06
78 t	Anthracene	1.203	1.204	-0.1	106	-0.07	12.14
79 t	Carbazole	1.101	1.077	2.2	106	-0.05	12.46
80 t	Di-n-butylphthalate	1.361	1.497	-10.0	113	-0.06	13.23
81 t	Fluoranthene	1.152	1.168	-1.4	106	-0.06	13.89
82 t	Octadecane	0.337	0.398	-18.1	120	-0.07	12.11
83 I	Chrysene-d12	1.000	1.000	0.0	105	-0.06	15.84
84 t	Pyrene	1.229	1.289	-4.9	106	-0.06	14.19
85 S	Terphenyl-d14	0.697	0.722	-3.6	104	-0.06	14.53
86 t	Butylbenzylphthalate	0.581	0.655	-12.7	108	-0.06	15.30

7.7.11  
7

# Continuing Calibration Summary

Page 3 of 3

Job Number: JA58750

Sample: E2P127-CC117

Account: ENSRMAA AECOM, INC.

Lab FileID: 2P2248.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

87	Butyl stearate			-----NA-----			
88 t	Benzo[a]anthracene	1.057	1.037	1.9	101	-0.06	15.82
89 t	3,3'-Dichlorobenzidine	0.379	0.387	-2.1	100	-0.05	15.87
90 t	Chrysene	1.053	1.115	-5.9	103	-0.06	15.87
91 t	bis(2-Ethylhexyl)phthalat	0.804	0.903	-12.3	108	-0.06	16.11
92 I	Perylene-d12	1.000	1.000	0.0	103	-0.06	17.49
93 t	Di-n-octylphthalate	1.604	1.827	-13.9	108	-0.06	16.84
94 t	Benzo[b]fluoranthene	1.181	1.126	4.7	92	-0.05	17.10
95 t	Benzo[k]fluoranthene	1.227	1.430	-16.5	112	-0.06	17.13
96 t	Benzo[a]pyrene	1.059	1.126	-6.3	104	-0.05	17.44
97 t	Indeno[1,2,3-cd]pyrene	1.245	1.355	-8.8	104	-0.06	18.57
98 t	Dibenz(a,h)acridine	0.874	0.935	-7.0	104	-0.06	18.35
99 t	Dibenz[a,h]anthracene	1.024	1.081	-5.6	101	-0.06	18.60
100 t	7,12-Dimethylbenz(a)anthr	0.452	0.523	-15.7	99	-0.06	17.13
101 t	Benzo[g,h,i]perylene	1.054	1.128	-7.0	105	-0.07	18.85

(#) = Out of Range

2p2051.D M2P117.M

SPCC's out = 0 CCC's out = 0

Wed Nov 03 13:12:59 2010 RPT1

7.7.11

7



## Continuing Calibration Summary

Page 1 of 1

Job Number: JA58750

Sample: E2P127-CC118

Account: ENSRMAA AECOM, INC.

Lab FileID: 2P2249.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p127\2p2249.D Vial: 3  
 Acq On : 2 Nov 2010 9:49 am Operator: ninap  
 Sample : cc118-25 Inst : MS2P  
 Misc : op45931,e2p127,1000,,,1,1 Multiplr: 1.00  
 MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P117.M (RTE Integrator)  
 Title : Semi Volatile Extractables by GC/MS  
 Last Update : Tue Nov 02 09:47:13 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	153	-0.09	5.06
103	Benzaldehyde	0.902	0.952	-5.5	144	-0.09	4.45
104	Acenaphthene-d10a	1.000	1.000	0.0	147	-0.08	9.74
	----- True Calc. % Drift -----						
105	Atrazine	25.000	24.745	1.0	150	-0.09	11.82
	----- AvgRF CCRF % Dev -----						
106	Chrysene-d12a	1.000	1.000	0.0	151	-0.06	15.84
107	Benzidine	0.417	0.525	-25.9#	154	-0.05	14.18
108	Acenaphthene-d10b	1.000	1.000	0.0	147	-0.08	9.74
109	1,2,4,5-Tetrachlorobenzen	0.470	0.504	-7.2	148	-0.09	8.42

(# ) = Out of Range

SPCC's out = 0 CCC's out = 0

2p2051.D M2P117.M

Wed Nov 03 09:36:40 2010 RPT1

7.7.12

7

## Continuing Calibration Summary

Job Number: JA58750

Sample: E2P128-CC117

Account: ENSRMAA AECOM, INC.

Lab FileID: 2P2278.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p128\2p2278.D

Vial: 2

Acq On : 3 Nov 2010 12:03 pm

Operator: krutikap

Sample : ccl17-25

Inst : MS2P

Misc : op45931,e2p128,1000,,,1,1

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P117.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Tue Nov 02 09:47:13 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	190	-0.10	5.05
2 t	1,4-Dioxane	0.481	0.559	-16.2	197	-0.07	1.37
3 t	Pyridine	1.454	1.497	-3.0	195	-0.09	1.67
4 t	N-Nitrosodimethylamine	0.847	0.899	-6.1	195	-0.08	1.67
5 S	2-Fluorophenol	1.296	1.289	0.5	183	-0.06	3.40
6 t	Indene	1.924	1.953	-1.5	186	-0.10	5.47
7 t	Cumene	2.619	2.767	-5.7	192	-0.10	3.98
8 S	Phenol-d5	1.714	1.670	2.6	179	-0.05	4.76
9 t	Phenol	1.808	1.876	-3.8	192	-0.05	4.78
10	Aniline	1.806	1.677	7.1	172	-0.09	4.67
11 t	bis(2-Chloroethyl)ether	1.423	1.476	-3.7	192	-0.09	4.79
12 t	2-Chlorophenol	1.459	1.447	0.8	184	-0.07	4.83
13 t	Decane	1.398	1.595	-14.1	204#	-0.10	4.95
14 t	1,3-Dichlorobenzene	1.549	1.532	1.1	182	0.00	4.99
15 t	1,4-Dichlorobenzene	1.582	1.583	-0.1	186	-0.09	5.08
16 t	Benzyl alcohol	0.961	0.867	9.8	164	-0.08	5.36
17 t	1,2-Dichlorobenzene	1.516	1.494	1.5	181	-0.10	5.34
18 t	Acetophenone	1.874	1.806	3.6	177	-0.09	5.72
19 t	2-Methylphenol	1.259	1.217	3.3	176	-0.06	5.63
20 t	2,2'-oxybis(1-Chloropropa	0.483	0.461	4.6	177	-0.09	5.59
21 t	3&4-Methylphenol	1.349	1.306	3.2	175	-0.06	5.86
22 t	n-Nitroso-di-n-propylamin	0.986	1.028	-4.3	190	-0.09	5.80
23 t	Hexachloroethane	0.483	0.481	0.4	180	-0.10	5.79
24 I	Naphthalene-d8	1.000	1.000	0.0	184	-0.10	6.97
25 S	Nitrobenzene-d5	0.406	0.433	-6.7	190	-0.09	5.93
26 t	Nitrobenzene	0.188	0.188	0.0	179	-0.09	5.95
27 t	Quinoline	0.654	0.623	4.7	174	-0.09	7.53
28 t	Isophorone	0.686	0.707	-3.1	182	-0.09	6.33
29 t	2-Nitrophenol	0.194	0.202	-4.1	180	-0.09	6.44
30 t	2,4-Dimethylphenol	0.322	0.322	0.0	177	-0.07	6.63
31 t	Benzoic acid	0.280	0.237	15.4	155	-0.05	6.90
32 t	bis(2-Chloroethoxy)methan	0.431	0.434	-0.7	180	-0.09	6.74
33 t	2,4-Dichlorophenol	0.289	0.280	3.1	172	-0.07	6.84
34 t	2,6-Dichlorophenol	0.295	0.292	1.0	179	-0.09	7.18
35	1,3,5-Trichlorobenzene	0.324	0.320	1.2	177	-0.10	6.44
36 t	1,2,4-Trichlorobenzene	0.317	0.308	2.8	175	-0.09	6.93
37	1,2,3-Trichlorobenzene	0.306	0.292	4.6	174	-0.10	7.28
38 t	Naphthalene	1.110	1.095	1.4	179	-0.10	7.00
39 t	4-Chloroaniline	0.474	0.456	3.8	171	-0.09	7.18
40 t	2,3-Dichloroaniline	0.344	0.327	4.9	169	-0.09	8.60
41 t	Caprolactam	0.115	0.113	1.7	175	-0.07	7.70

# Continuing Calibration Summary

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P128-CC117

Lab FileID: 2P2278.D

Page 2 of 3

42 t	Hexachlorobutadiene	0.159	0.154	3.1	174	-0.10	7.33
43 t	4-Chloro-3-methylphenol	0.307	0.307	0.0	177	-0.05	8.05
44 t	2-Methylnaphthalene	0.745	0.752	-0.9	181	-0.09	8.08
45 t	1-Methylnaphthalene	0.685	0.674	1.6	177	-0.10	8.24
46 t	Dimethylnaphthalene	0.600	0.586	2.3	174	-0.10	9.07
47 I	Acenaphthene-d10	1.000	1.000	0.0	174	-0.10	9.72
48 t	Hexachlorocyclopentadiene	0.229	0.234	-2.2	175	-0.10	8.46
49 t	2,4,6-Trichlorophenol	0.357	0.356	0.3	168	-0.07	8.62
50 t	2,4,5-Trichlorophenol	0.359	0.365	-1.7	170	-0.09	8.69
51 S	2-Fluorobiphenyl	1.360	1.381	-1.5	174	-0.09	8.73
52 t	2-Chloronaphthalene	1.166	1.175	-0.8	171	-0.09	8.82
53 t	Biphenyl	1.497	1.531	-2.3	174	-0.09	8.85
54 t	2-Nitroaniline	0.384	0.435	-13.3	183	-0.07	9.10
55 t	Dimethylphthalate	1.321	1.315	0.5	170	-0.09	9.49
56 t	Acenaphthylene	1.856	1.933	-4.1	175	-0.09	9.47
57 t	2,6-Dinitrotoluene	0.269	0.285	-5.9	173	-0.09	9.56
58 t	3-Nitroaniline	0.367	0.370	-0.8	172	-0.07	9.76
59 t	Acenaphthene	1.219	1.260	-3.4	177	-0.09	9.77
----- True		Calc.	% Drift	-----			
60 t	2,4-Dinitrophenol	50.000	47.330	5.3	185	-0.07	9.92
----- AvgRF		CCRF	% Dev	-----			
61 t	4-Nitrophenol	0.189	0.178	5.8	156	-0.02	10.17
62 t	Dibenzofuran	1.652	1.629	1.4	171	-0.10	10.02
63 t	2,4-Dinitrotoluene	0.373	0.386	-3.5	169	-0.08	10.16
64	2,3,4,6-Tetrachlorophenol	0.287	0.279	2.8	165	-0.07	10.34
65 t	Diethylphthalate	1.372	1.400	-2.0	171	-0.10	10.62
66 t	Fluorene	1.280	1.315	-2.7	175	-0.09	10.56
67 t	4-Chlorophenyl-phenylethe	0.599	0.597	0.3	168	-0.09	10.63
68 t	4-Nitroaniline	0.341	0.328	3.8	156	-0.07	10.73
69 I	Phenanthrene-d10	1.000	1.000	0.0	174	-0.10	12.01
----- True		Calc.	% Drift	-----			
70 t	4,6-Dinitro-2-methylpheno	25.000	25.025	-0.1	182	-0.08	10.79
----- AvgRF		CCRF	% Dev	-----			
71 t	n-Nitrosodiphenylamine	0.598	0.599	-0.2	169	-0.09	10.84
72 t	1,2-Diphenylhydrazine	0.979	1.092	-11.5	179	-0.10	10.86
73 S	2,4,6-Tribromophenol	0.090	0.089	1.1	165	-0.09	10.98
74 t	4-Bromophenyl-phenylether	0.201	0.198	1.5	170	-0.10	11.38
75 t	Hexachlorobenzene	0.214	0.205	4.2	166	-0.09	11.55
----- True		Calc.	% Drift	-----			
76 t	Pentachlorophenol	50.000	43.010	14.0	156	-0.08	11.88
----- AvgRF		CCRF	% Dev	-----			
77 t	Phenanthrene	1.196	1.175	1.8	170	-0.10	12.04
78 t	Anthracene	1.203	1.211	-0.7	168	-0.10	12.11
79 t	Carbazole	1.101	1.087	1.3	169	-0.08	12.43
80 t	Di-n-butylphthalate	1.361	1.483	-9.0	178	-0.09	13.21
81 t	Fluoranthene	1.152	1.190	-3.3	172	-0.09	13.87
82 t	Octadecane	0.337	0.387	-14.8	186	-0.09	12.09
83 I	Chrysene-d12	1.000	1.000	0.0	176	-0.08	15.82
84 t	Pyrene	1.229	1.226	0.2	170	-0.09	14.17
85 S	Terphenyl-d14	0.697	0.699	-0.3	170	-0.09	14.50
86 t	Butylbenzylphthalate	0.581	0.629	-8.3	176	-0.08	15.27

7.7.13

7

# Continuing Calibration Summary

Page 3 of 3

Job Number: JA58750

Sample: E2P128-CC117

Account: ENSRMAA AECOM, INC.

Lab FileID: 2P2278.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

87	Butyl stearate	0.072	0.068	5.6	166	-0.08	15.39
88 t	Benzo[a]anthracene	1.057	1.035	2.1	170	-0.08	15.80
89 t	3,3'-Dichlorobenzidine	0.379	0.380	-0.3	165	-0.07	15.85
90 t	Chrysene	1.053	1.114	-5.8	174	-0.08	15.85
91 t	bis(2-Ethylhexyl)phthalat	0.804	0.881	-9.6	177	-0.09	16.09
-----							
92 I	Perylene-d12	1.000	1.000	0.0	172	-0.08	17.47
93 t	Di-n-octylphthalate	1.604	1.775	-10.7	175	-0.08	16.82
94 t	Benzo[b]fluoranthene	1.181	1.167	1.2	159	-0.07	17.08
95 t	Benzo[k]fluoranthene	1.227	1.386	-13.0	180	-0.08	17.10
96 t	Benzo[a]pyrene	1.059	1.113	-5.1	171	-0.08	17.41
97 t	Indeno[1,2,3-cd]pyrene	1.245	1.290	-3.6	165	-0.10	18.54
98 t	Dibenz(a,h)acridine	0.874	0.891	-1.9	165	-0.09	18.32
99 t	Dibenz[a,h]anthracene	1.024	1.034	-1.0	162	-0.10	18.57
100 t	7,12-Dimethylbenz(a)anthr	0.452	0.525	-16.2	166	-0.08	17.10
101 t	Benzo[g,h,i]perylene	1.054	1.083	-2.8	168	-0.10	18.82
-----							

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

2p2051.D M2P117.M

Wed Nov 03 14:54:51 2010 RPT1

7.7.13

7

## Continuing Calibration Summary

Page 1 of 1

Job Number: JA58750

Sample: E2P128-CC118

Account: ENSRMAA AECOM, INC.

Lab FileID: 2P2279.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2p128\2p2279.D

Vial: 3

Acq On : 3 Nov 2010 1:24 pm

Operator: krutikap

Sample : cc118-25

Inst : MS2P

Misc : op45931,e2p128,1000,,,1,1

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P117.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Tue Nov 02 09:47:13 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	79	-0.10	5.05
103	Benzaldehyde	0.902	0.937	-3.9	73	-0.10	4.44
104	Acenaphthene-d10a	1.000	1.000	0.0	77	-0.10	9.72
	----- True Calc. % Drift -----						
105	Atrazine	25.000	23.337	6.7	74	-0.11	11.80
	----- AvgRF CCRF % Dev -----						
106	Chrysene-d12a	1.000	1.000	0.0	76	-0.09	15.82
107	Benzidine	0.417	0.507	-21.6#	75	-0.08	14.16
108	Acenaphthene-d10b	1.000	1.000	0.0	77	-0.10	9.72
109	1,2,4,5-Tetrachlorobenzen	0.470	0.491	-4.5	75	-0.10	8.41

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

2p2051.D M2P117.M

Wed Nov 03 14:57:26 2010 RPT1

7.7.14

7



GC/MS Semi-volatiles

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Raw Data

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8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2252.D  
 Acq On : 2 Nov 2010 11:12 am  
 Operator : ninap  
 Sample : ja58750-1  
 Misc : op46301,e2p127,35.2,,,1,1  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 03 09:47:26 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 Qlast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.070	152	76764	40.00	ppb	-0.08
24) Naphthalene-d8	6.979	136	282595	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	157850	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	253333	40.00	ppb	-0.07
83) Chrysene-d12	15.836	240	230239	40.00	ppb	-0.06
92) Perylene-d12	17.495	264	196319	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.070	152	76764	40.00	ppb	-0.08
104) Acenaphthene-d10a	9.734	164	157850	40.00	ppb	-0.08
106) Chrysene-d12a	15.836	240	230239	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	157850	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.422	112	55417	22.27	ppb	-0.03
Spiked Amount 50.000			Recovery	=	44.54%	
8) Phenol-d5	4.792	99	57972	17.62	ppb	-0.02
Spiked Amount 50.000			Recovery	=	35.24%	
25) Nitrobenzene-d5	5.947	82	74502	25.96	ppb	-0.07
Spiked Amount 50.000			Recovery	=	51.92%	
51) 2-Fluorobiphenyl	8.750	172	137589	25.63	ppb	-0.07
Spiked Amount 50.000			Recovery	=	51.26%	
73) 2,4,6-Tribromophenol	11.007	330	10359	18.16	ppb	-0.06
Spiked Amount 50.000			Recovery	=	36.32%	
85) Terphenyl-d14	14.526	244	106150	26.44	ppb	-0.06
Spiked Amount 50.000			Recovery	=	52.88%	

Target Compounds Qvalue

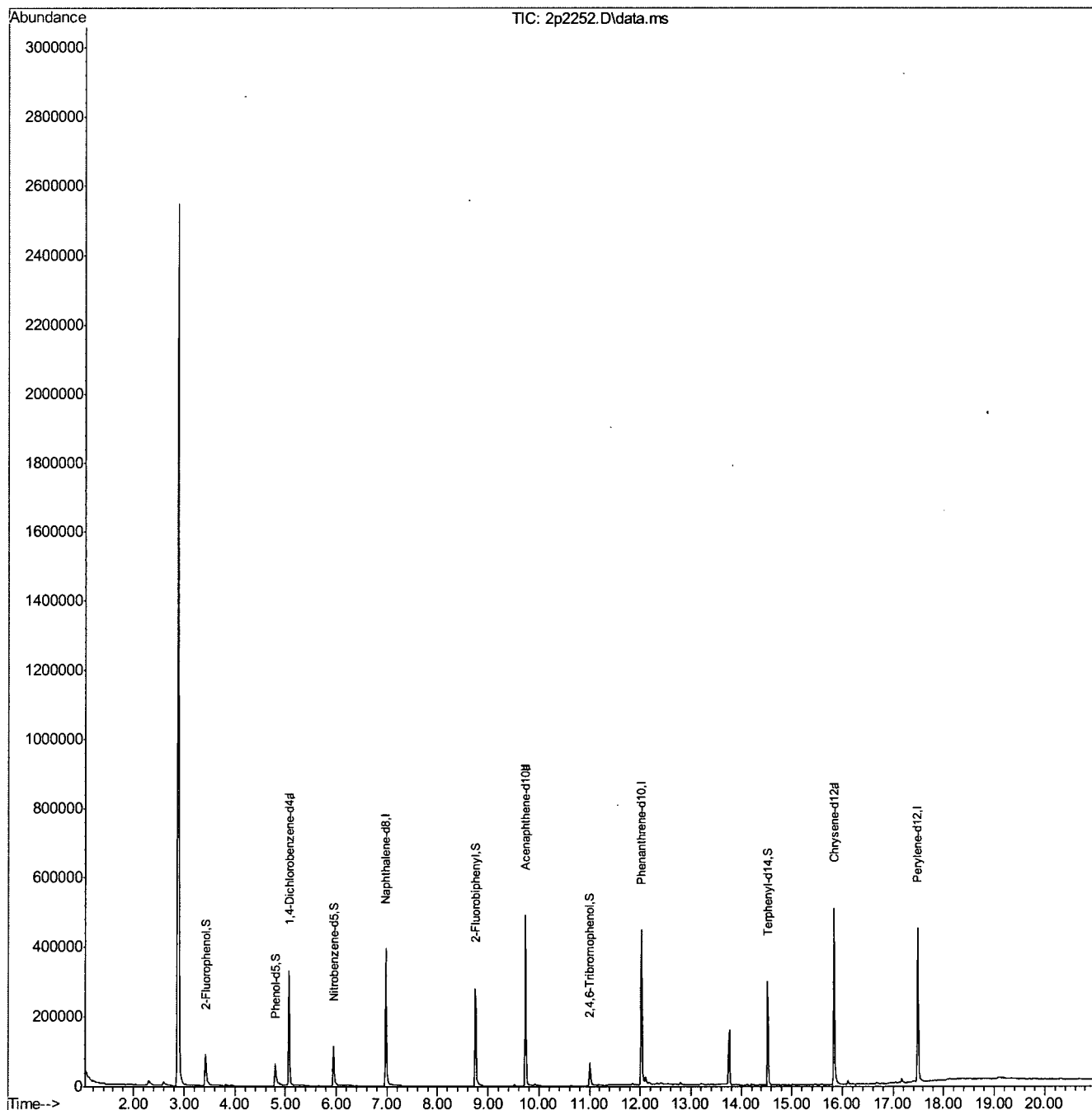
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.1  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2252.D  
Acq On : 2 Nov 2010 11:12 am  
Operator : ninap  
Sample : ja58750-1  
Misc : op46301,e2p127,35.2,,,1,1  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 03 09:47:26 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2253.D  
 Acq On : 2 Nov 2010 11:38 am  
 Operator : ninap  
 Sample : ja58750-2  
 Misc : op46301,e2p127,35.1,,,1,1  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 03 09:48:19 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 Qlast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.070	152	91288	40.00	ppb	-0.08
24) Naphthalene-d8	6.979	136	357239	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	206553	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	329581	40.00	ppb	-0.08
83) Chrysene-d12	15.836	240	300590	40.00	ppb	-0.06
92) Perylene-d12	17.494	264	249058	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.070	152	91288	40.00	ppb	-0.08
104) Acenaphthene-d10a	9.734	164	206553	40.00	ppb	-0.08
106) Chrysene-d12a	15.836	240	300590	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	206553	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.417	112	77916	26.33	ppb	-0.04
Spiked Amount 50.000			Recovery =	52.66%		
8) Phenol-d5	4.786	99	93411	23.88	ppb	-0.03
Spiked Amount 50.000			Recovery =	47.76%		
25) Nitrobenzene-d5	5.941	82	104419	28.79	ppb	-0.08
Spiked Amount 50.000			Recovery =	57.58%		
51) 2-Fluorobiphenyl	8.749	172	188777	26.88	ppb	-0.08
Spiked Amount 50.000			Recovery =	53.76%		
73) 2,4,6-Tribromophenol	11.007	330	16322	21.99	ppb	-0.06
Spiked Amount 50.000			Recovery =	43.98%		
85) Terphenyl-d14	14.526	244	172430	32.90	ppb	-0.06
Spiked Amount 50.000			Recovery =	65.80%		

Target Compounds	Qvalue
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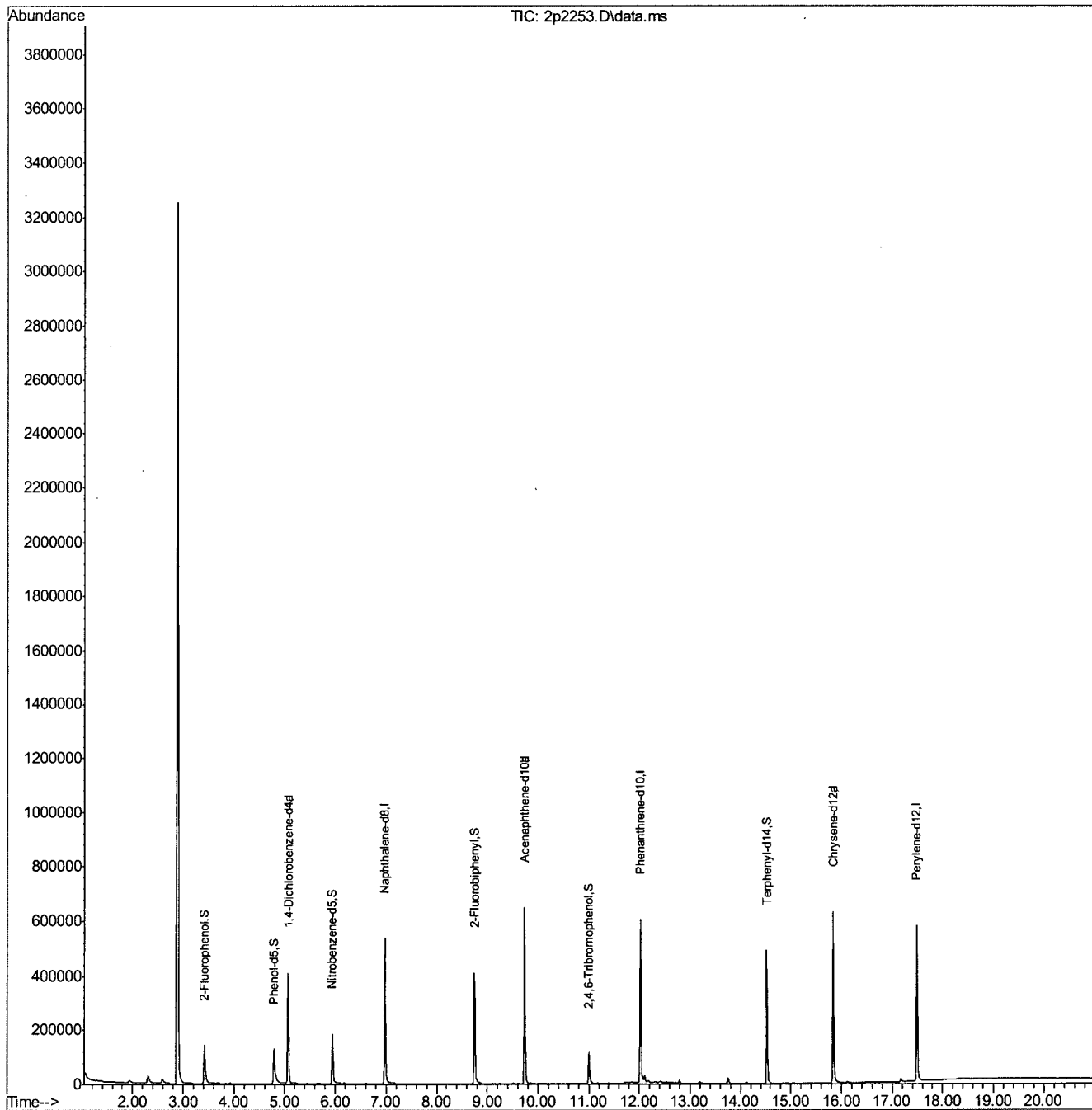
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.12  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2253.D  
Acq On : 2 Nov 2010 11:38 am  
Operator : ninap  
Sample : ja58750-2  
Misc : op46301,e2p127,35.1,,,1,1  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 03 09:48:19 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2254.D  
 Acq On : 2 Nov 2010 12:03 pm  
 Operator : ninap  
 Sample : ja58750-3  
 Misc : op46301,e2p127,35.1,,,1,1  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 23 11:14:33 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

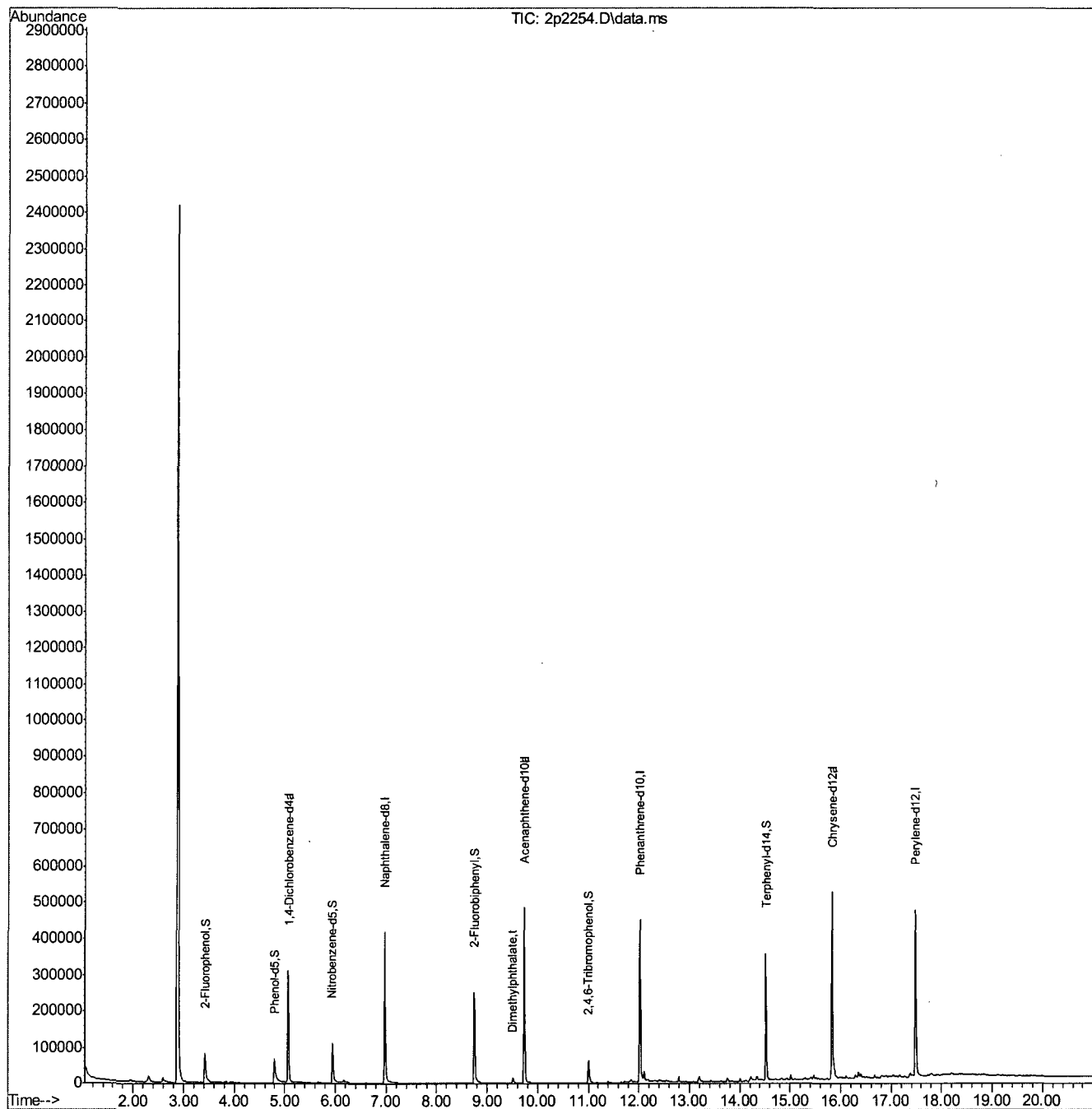
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.070	152	71112	40.00	ppb	-0.08
24) Naphthalene-d8	6.979	136	275492	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	152421	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	243641	40.00	ppb	-0.07
83) Chrysene-d12	15.837	240	232807	40.00	ppb	-0.06
92) Perylene-d12	17.489	264	197801	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.070	152	71112	40.00	ppb	-0.08
104) Acenaphthene-d10a	9.734	164	152421	40.00	ppb	-0.08
106) Chrysene-d12a	15.837	240	232807	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	152421	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.422	112	50745	22.02	ppb	-0.03
Spiked Amount 50.000			Recovery	=	44.04%	
8) Phenol-d5	4.792	99	56238	18.45	ppb	-0.02
Spiked Amount 50.000			Recovery	=	36.90%	
25) Nitrobenzene-d5	5.942	82	68799	24.59	ppb	-0.08
Spiked Amount 50.000			Recovery	=	49.18%	
51) 2-Fluorobiphenyl	8.750	172	126738	24.45	ppb	-0.07
Spiked Amount 50.000			Recovery	=	48.90%	
73) 2,4,6-Tribromophenol	11.007	330	10356m	18.88	ppb	-0.06
Spiked Amount 50.000			Recovery	=	37.76%	
85) Terphenyl-d14	14.526	244	117123	28.85	ppb	-0.06
Spiked Amount 50.000			Recovery	=	57.70%	
Target Compounds						
55) Dimethylphthalate	9.509	163	13698	2.72	ppb	Qvalue 97

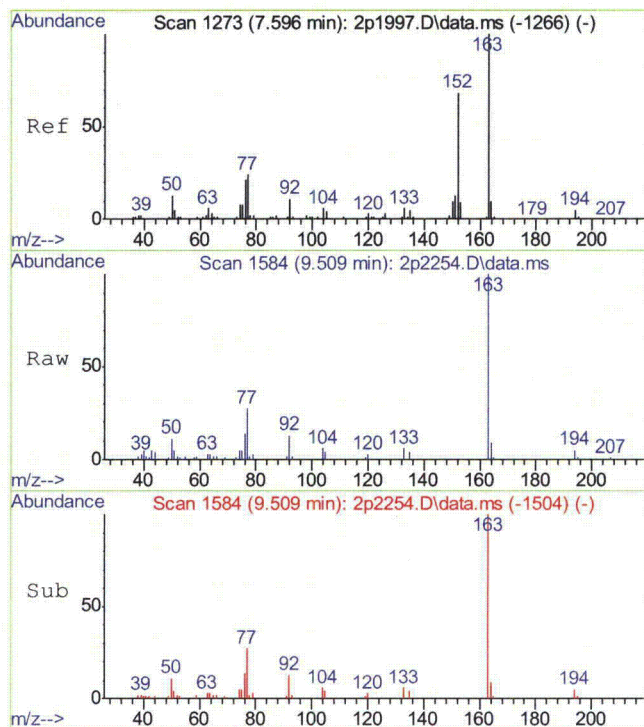
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2254.D  
Acq On : 2 Nov 2010 12:03 pm  
Operator : ninap  
Sample : ja58750-3  
Misc : op46301,e2p127,35.1,,,1,1  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 23 11:14:33 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration





#55

Dimethylphthalate

Concen: 2.72 ppb

RT: 9.509 min Scan# 1584

Delta R.T. -0.069 min

Lab File: 2p2254.D

Acq: 2 Nov 2010 12:03 pm

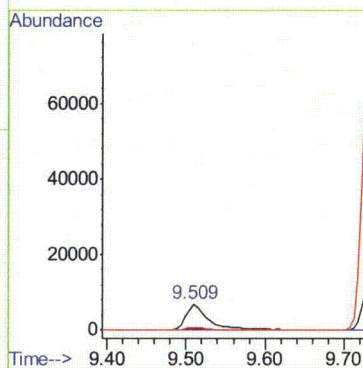
Tgt Ion:163 Resp: 13698

Ion Ratio Lower Upper

163 100

194 5.2 0.0 35.5

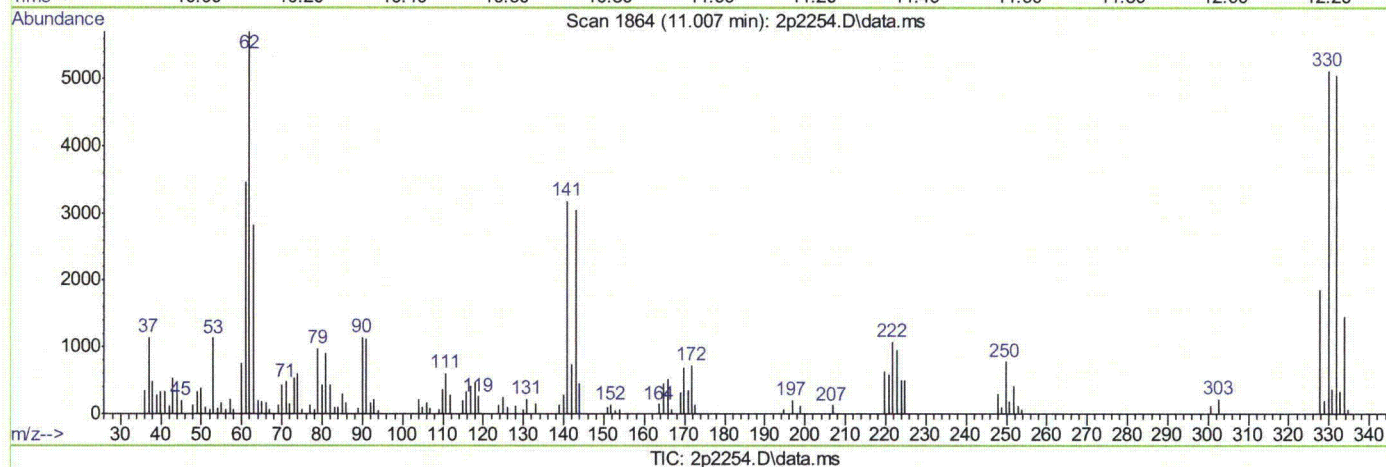
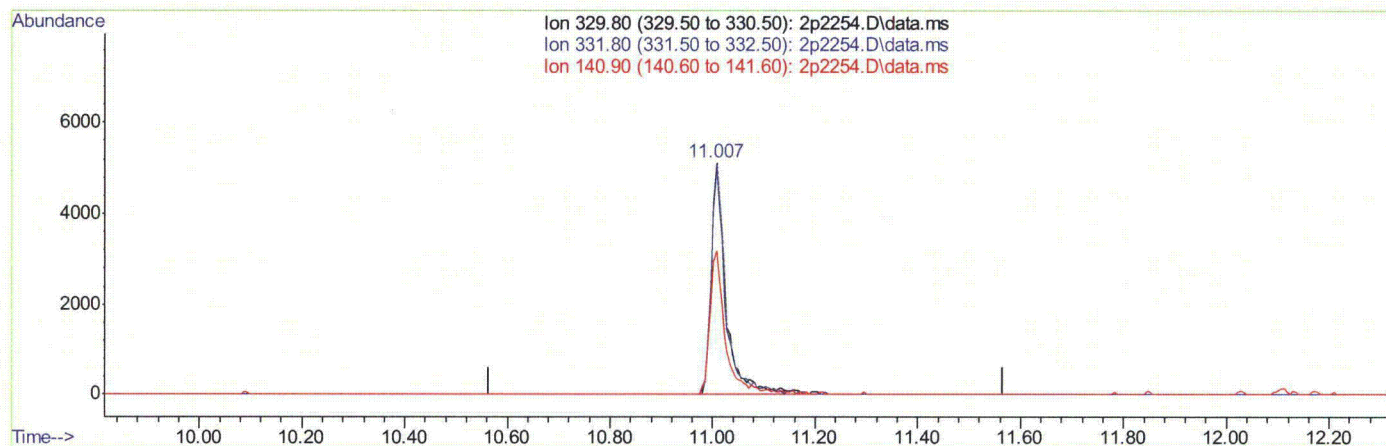
164 8.7 0.0 40.3

8.13  
8

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2254.D  
Acq On : 2 Nov 2010 12:03 pm  
Operator : ninap  
Sample : ja58750-3  
Misc : op46301,e2p127,35.1,,,1,1  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 03 08:49:17 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



(73) 2,4,6-Tribromophenol (S)

11.007min (-0.059) 18.88ppb m

response 10356

Ion	Exp%	Act%
329.80	100	100
331.80	95.20	98.67
140.90	43.50	62.03
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2255.D  
 Acq On : 2 Nov 2010 12:29 pm  
 Operator : ninap  
 Sample : ja58750-4  
 Misc : op46301,e2p127,35.1,,,1,1  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 03 09:50:25 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.070	152	115007	40.00	ppb	-0.08
24) Naphthalene-d8	6.979	136	445685	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	262077	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	429490	40.00	ppb	-0.08
83) Chrysene-d12	15.836	240	413049	40.00	ppb	-0.06
92) Perylene-d12	17.495	264	340039	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.070	152	115007	40.00	ppb	-0.08
104) Acenaphthene-d10a	9.734	164	262077	40.00	ppb	-0.08
106) Chrysene-d12a	15.836	240	413049	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	262077	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.422	112	76412	20.50	ppb	-0.03
Spiked Amount 50.000			Recovery =	41.00%		
8) Phenol-d5	4.792	99	83767	17.00	ppb	-0.02
Spiked Amount 50.000			Recovery =	34.00%		
25) Nitrobenzene-d5	5.941	82	101741	22.48	ppb	-0.08
Spiked Amount 50.000			Recovery =	44.96%		
51) 2-Fluorobiphenyl	8.750	172	187087	20.99	ppb	-0.08
Spiked Amount 50.000			Recovery =	41.98%		
73) 2,4,6-Tribromophenol	11.007	330	18362	18.99	ppb	-0.06
Spiked Amount 50.000			Recovery =	37.98%		
85) Terphenyl-d14	14.526	244	203582	28.27	ppb	-0.06
Spiked Amount 50.000			Recovery =	56.54%		

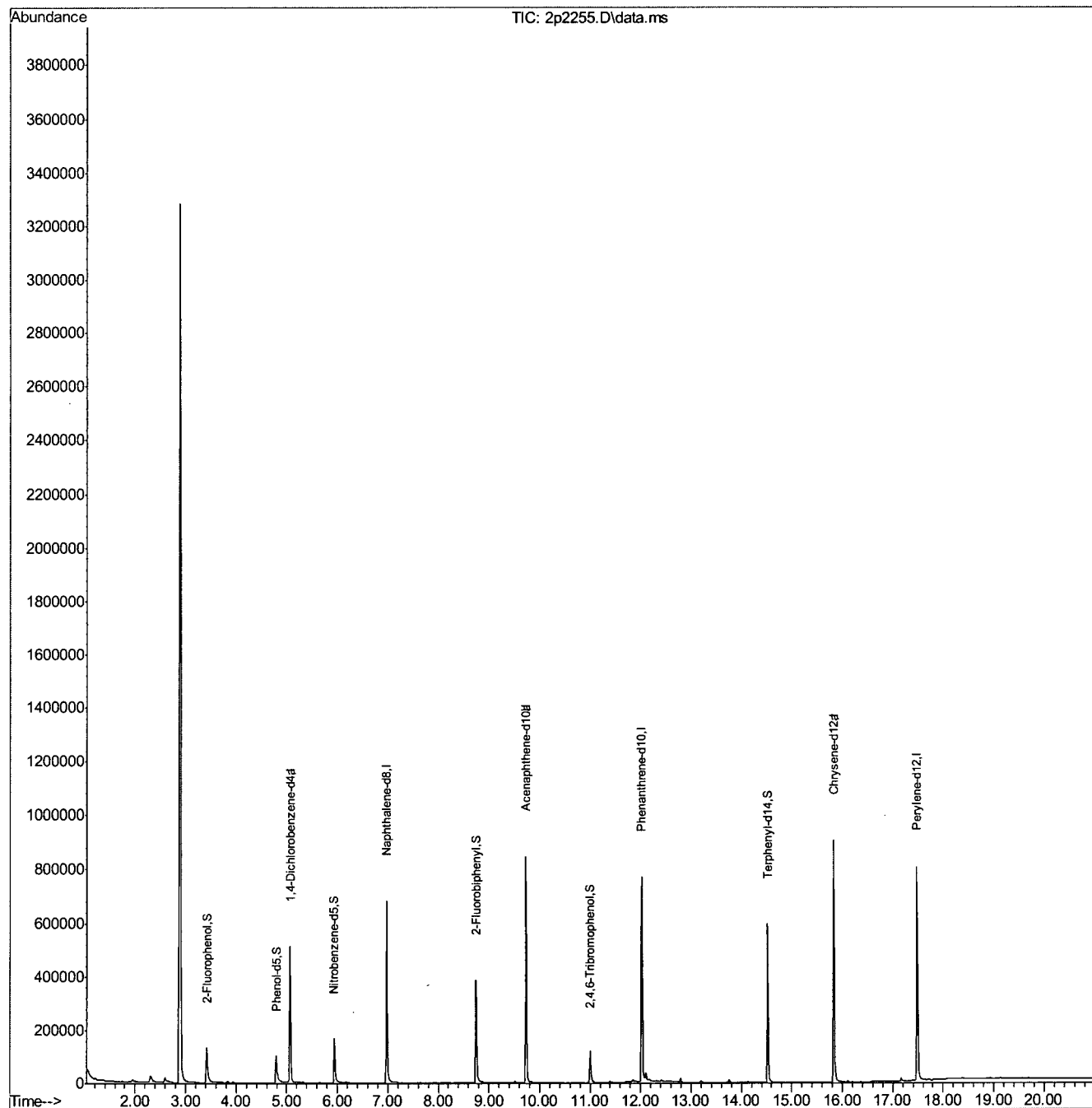
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2255.D  
Acq On : 2 Nov 2010 12:29 pm  
Operator : ninap  
Sample : ja58750-4  
Misc : op46301,e2p127,35.1,,,1,1  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 03 09:50:25 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2256.D  
 Acq On : 2 Nov 2010 12:55 pm  
 Operator : ninap  
 Sample : ja58750-5  
 Misc : op46301,e2p127,35.1,,,1,1  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 03 09:54:42 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.070	152	66946	40.00	ppb	-0.08
24) Naphthalene-d8	6.979	136	254324	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	140896	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	220985	40.00	ppb	-0.08
83) Chrysene-d12	15.836	240	197467	40.00	ppb	-0.06
92) Perylene-d12	17.489	264	162099	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.070	152	66946	40.00	ppb	-0.08
104) Acenaphthene-d10a	9.734	164	140896	40.00	ppb	-0.08
106) Chrysene-d12a	15.836	240	197467	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	140896	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.422	112	51665	23.81	ppb	-0.03
Spiked Amount 50.000			Recovery =	47.62%		
8) Phenol-d5	4.791	99	55409	19.31	ppb	0.00
Spiked Amount 50.000			Recovery =	38.62%		
25) Nitrobenzene-d5	5.947	82	67928	26.30	ppb	-0.08
Spiked Amount 50.000			Recovery =	52.60%		
51) 2-Fluorobiphenyl	8.749	172	121862	25.43	ppb	-0.08
Spiked Amount 50.000			Recovery =	50.86%		
73) 2,4,6-Tribromophenol	11.007	330	9452	19.00	ppb	-0.06
Spiked Amount 50.000			Recovery =	38.00%		
85) Terphenyl-d14	14.526	244	116361	33.79	ppb	-0.06
Spiked Amount 50.000			Recovery =	67.58%		

Target Compounds Qvalue

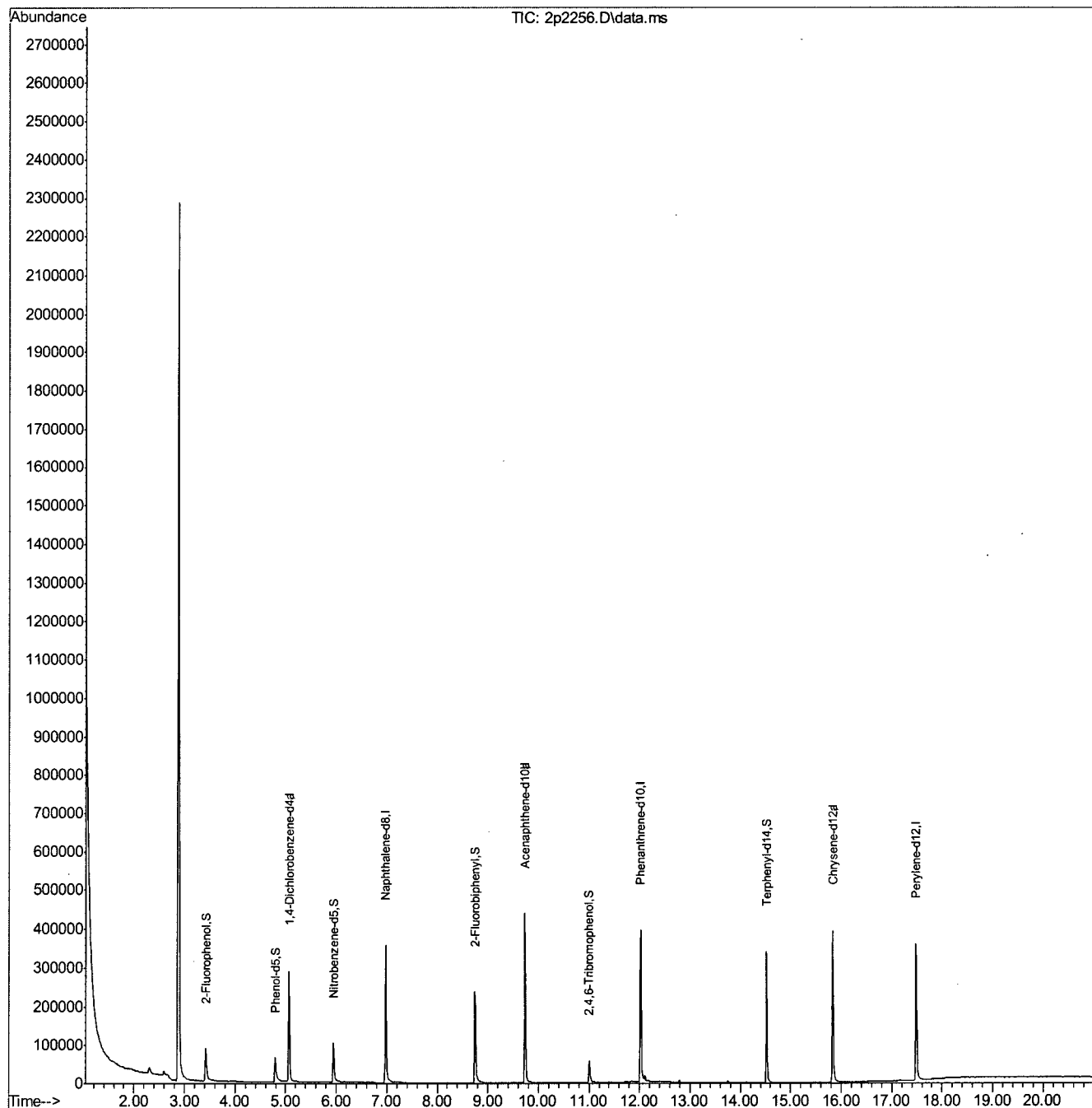
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.5  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2256.D  
Acq On : 2 Nov 2010 12:55 pm  
Operator : ninap  
Sample : ja58750-5  
Misc : op46301,e2p127,35.1,,,1,1  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 03 09:54:42 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2257.D  
 Acq On : 2 Nov 2010 1:20 pm  
 Operator : ninap  
 Sample : ja58750-6  
 Misc : op46301,e2p127,35.1,,,1,1  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 03 09:55:37 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.070	152	112015	40.00	ppb	-0.08
24) Naphthalene-d8	6.979	136	428837	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	244248	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	396123	40.00	ppb	-0.08
83) Chrysene-d12	15.836	240	361454	40.00	ppb	-0.06
92) Perylene-d12	17.489	264	300851	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.070	152	112015	40.00	ppb	-0.08
104) Acenaphthene-d10a	9.734	164	244248	40.00	ppb	-0.08
106) Chrysene-d12a	15.836	240	361454	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	244248	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.417	112	113685	31.31	ppb	-0.04
Spiked Amount 50.000			Recovery	=	62.62%	
8) Phenol-d5	4.786	99	134858	28.09	ppb	-0.03
Spiked Amount 50.000			Recovery	=	56.18%	
25) Nitrobenzene-d5	5.941	82	152051	34.92	ppb	-0.08
Spiked Amount 50.000			Recovery	=	69.84%	
51) 2-Fluorobiphenyl	8.749	172	271680	32.71	ppb	-0.08
Spiked Amount 50.000			Recovery	=	65.42%	
73) 2,4,6-Tribromophenol	11.001	330	22145	24.83	ppb	-0.06
Spiked Amount 50.000			Recovery	=	49.66%	
85) Terphenyl-d14	14.526	244	250426	39.73	ppb	-0.06
Spiked Amount 50.000			Recovery	=	79.46%	

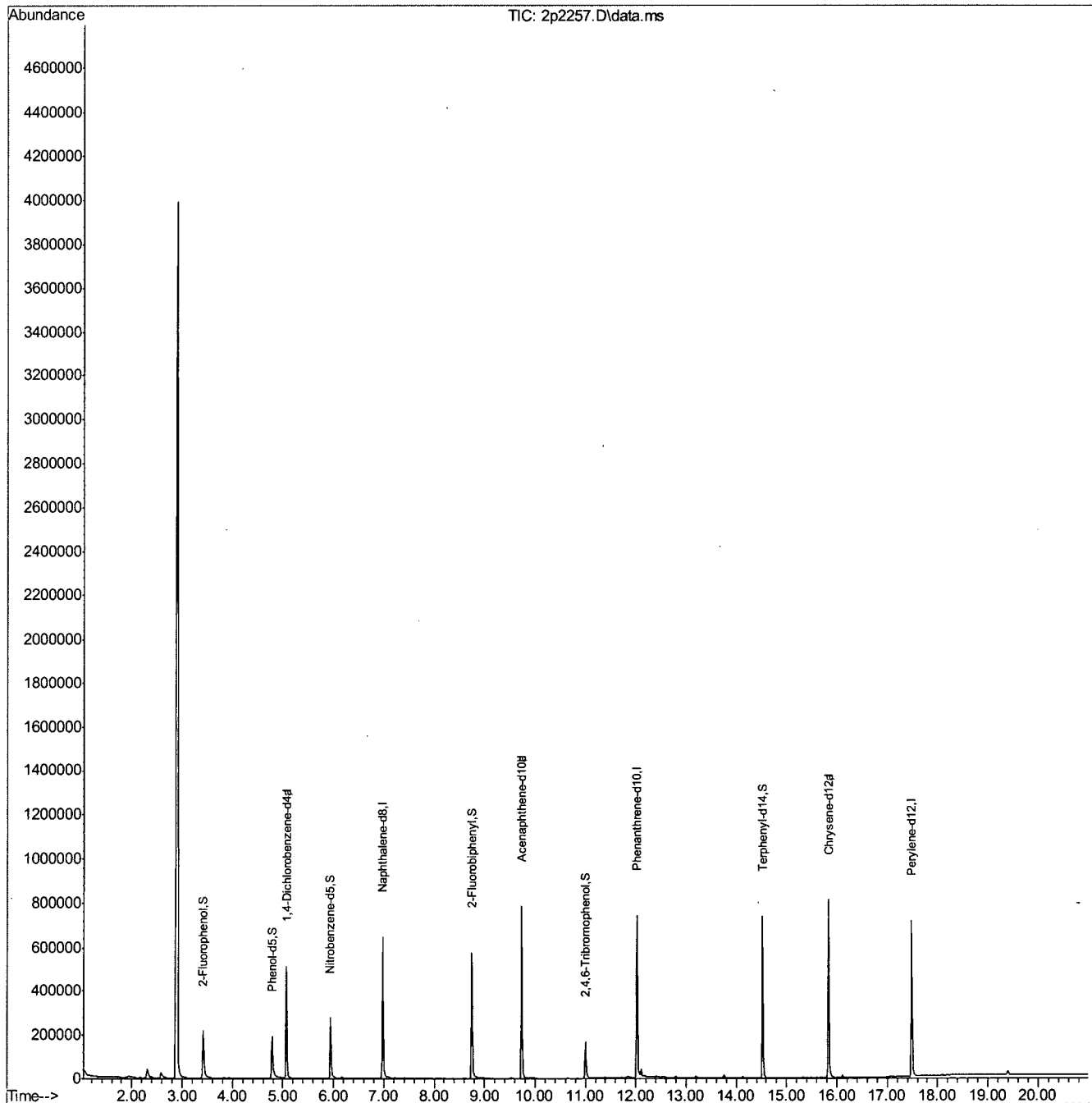
Target Compounds	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2257.D  
Acq On : 2 Nov 2010 1:20 pm  
Operator : ninap  
Sample : ja58750-6  
Misc : op46301,e2p127,35.1,,,1,1  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 03 09:55:37 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration

8.1.6  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2270.D  
 Acq On : 2 Nov 2010 9:07 pm  
 Operator : ninap  
 Sample : ja58750-7  
 Misc : op46301,e2p127,35.1,,,1,1  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 03 11:17:17 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

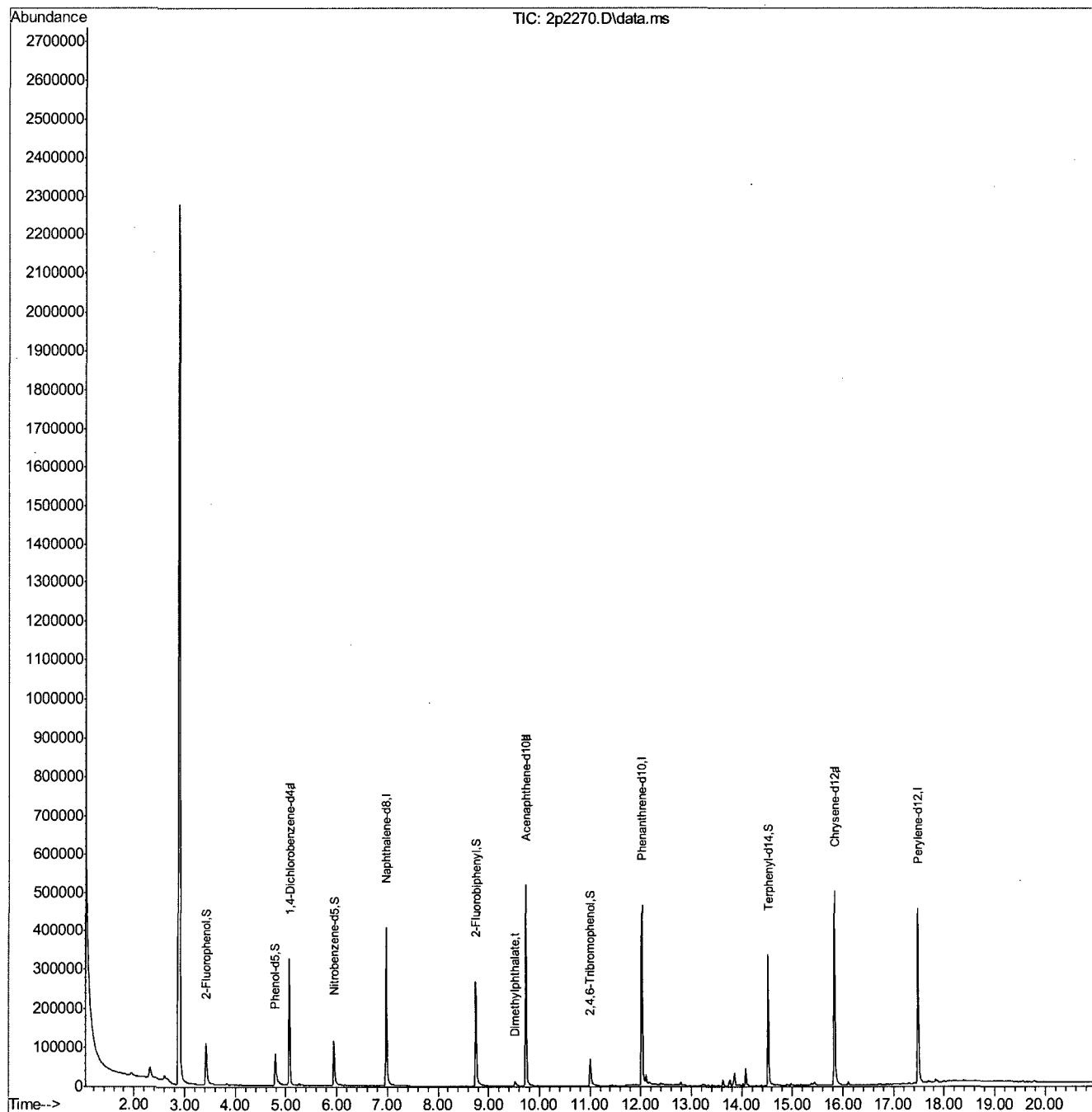
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.070	152	73534	40.00	ppb	-0.08
24) Naphthalene-d8	6.979	136	288500	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	170694	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	267932	40.00	ppb	-0.08
83) Chrysene-d12	15.836	240	245630	40.00	ppb	-0.06
92) Perylene-d12	17.489	264	199028	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.070	152	73534	40.00	ppb	-0.08
104) Acenaphthene-d10a	9.734	164	170694	40.00	ppb	-0.08
106) Chrysene-d12a	15.836	240	245630	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	170694	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.422	112	64169	26.92	ppb	-0.03
Spiked Amount 50.000			Recovery	=	53.84%	
8) Phenol-d5	4.786	99	69471	22.05	ppb	-0.03
Spiked Amount 50.000			Recovery	=	44.10%	
25) Nitrobenzene-d5	5.947	82	77527	26.46	ppb	-0.08
Spiked Amount 50.000			Recovery	=	52.92%	
51) 2-Fluorobiphenyl	8.749	172	142890	24.62	ppb	-0.08
Spiked Amount 50.000			Recovery	=	49.24%	
73) 2,4,6-Tribromophenol	11.007	330	12259	20.32	ppb	-0.06
Spiked Amount 50.000			Recovery	=	40.64%	
85) Terphenyl-d14	14.526	244	130777	30.53	ppb	-0.06
Spiked Amount 50.000			Recovery	=	61.06%	
Target Compounds						
55) Dimethylphthalate	9.520	163	12891	2.29	ppb	Qvalue 98

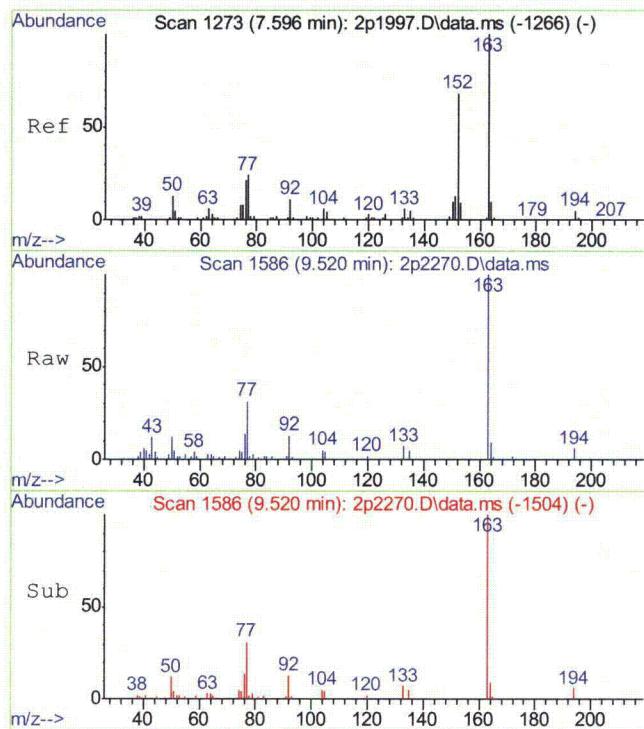
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2270.D  
Acq On : 2 Nov 2010 9:07 pm  
Operator : ninap  
Sample : ja58750-7  
Misc : op46301,e2p127,35.1,,,1,1  
ALS Vial : 24 Sample Multiplier: 1

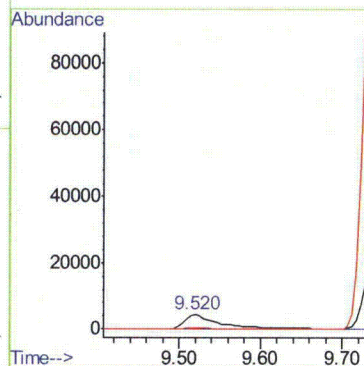
Quant Time: Nov 03 11:17:17 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration





#55  
 Dimethylphthalate  
 Concen: 2.29 ppb  
 RT: 9.520 min Scan# 1586  
 Delta R.T. -0.059 min  
 Lab File: 2p2270.D  
 Acq: 2 Nov 2010 9:07 pm

Tgt Ion:	163	Resp:	12891
Ion Ratio	Lower	Upper	
163	100		
194	6.2	0.0	35.5
164	9.7	0.0	40.3



8.17  
 8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2258.D  
 Acq On : 2 Nov 2010 1:46 pm  
 Operator : ninap  
 Sample : ja58750-8  
 Misc : op46301,e2p127,35.1,,,1,1  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 03 09:56:22 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.064	152	81431	40.00	ppb	-0.09
24) Naphthalene-d8	6.979	136	311180	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	176191	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	286173	40.00	ppb	-0.07
83) Chrysene-d12	15.837	240	265742	40.00	ppb	-0.06
92) Perylene-d12	17.489	264	220807	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.064	152	81431	40.00	ppb	-0.09
104) Acenaphthene-d10a	9.734	164	176191	40.00	ppb	-0.08
106) Chrysene-d12a	15.837	240	265742	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	176191	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.417	112	57423	21.76	ppb	-0.04
Spiked Amount 50.000			Recovery	=	43.52%	
8) Phenol-d5	4.792	99	62731	17.98	ppb	-0.02
Spiked Amount 50.000			Recovery	=	35.96%	
25) Nitrobenzene-d5	5.947	82	76252	24.13	ppb	-0.07
Spiked Amount 50.000			Recovery	=	48.26%	
51) 2-Fluorobiphenyl	8.750	172	144419	24.10	ppb	-0.07
Spiked Amount 50.000			Recovery	=	48.20%	
73) 2,4,6-Tribromophenol	11.007	330	13098	20.33	ppb	-0.06
Spiked Amount 50.000			Recovery	=	40.66%	
85) Terphenyl-d14	14.526	244	149425	32.25	ppb	-0.06
Spiked Amount 50.000			Recovery	=	64.50%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

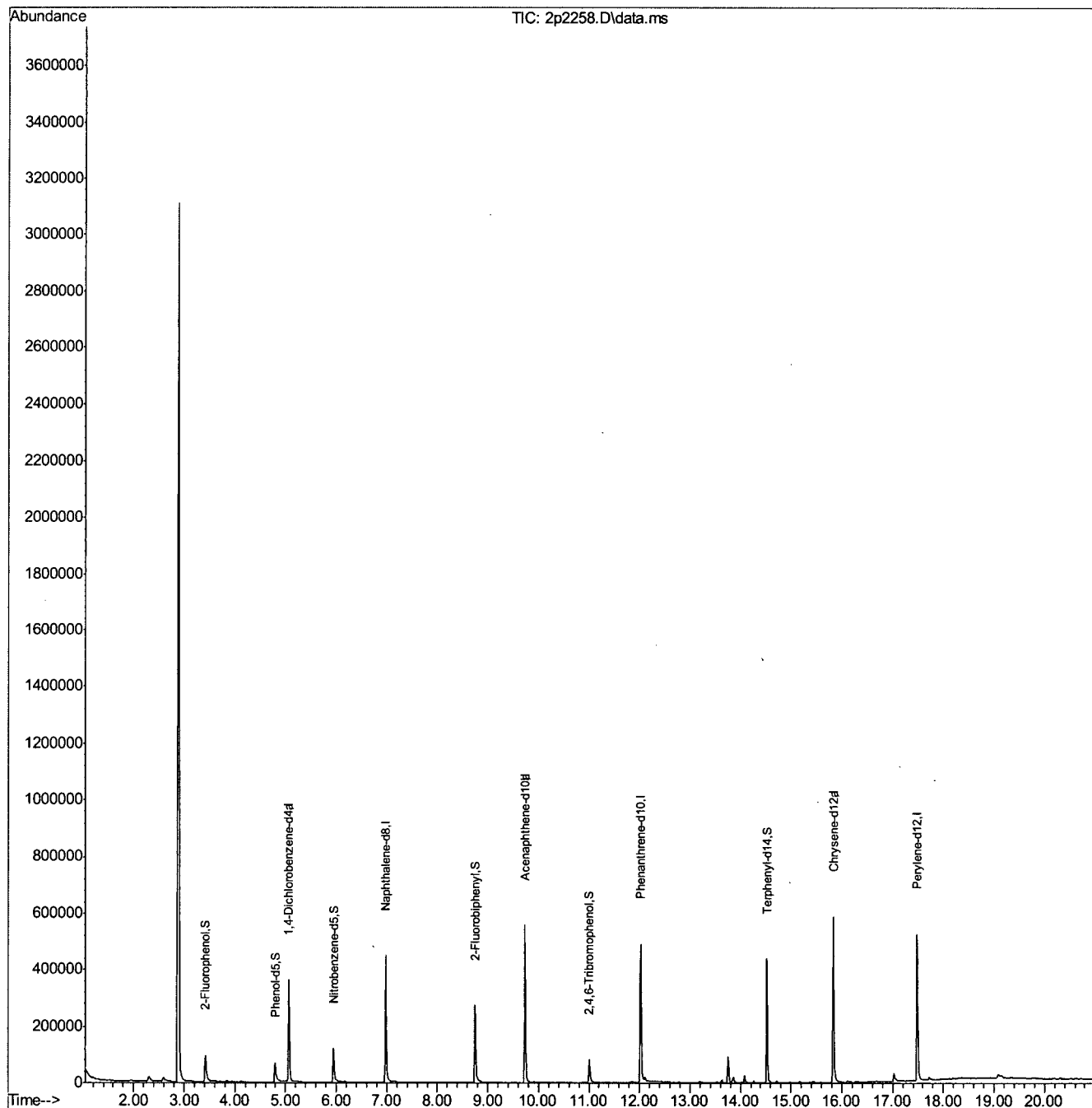
8.1.8  
8



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2258.D  
Acq On : 2 Nov 2010 1:46 pm  
Operator : ninap  
Sample : ja58750-8  
Misc : op46301,e2p127,35.1,,,1,1  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 03 09:56:22 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2259.D  
 Acq On : 2 Nov 2010 2:12 pm  
 Operator : ninap  
 Sample : ja58750-9  
 Misc : op46301,e2p127,35.2,,,1,1  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 03 10:02:49 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.070	152	92890	40.00	ppb	-0.08
24) Naphthalene-d8	6.979	136	352478	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	205101	40.00	ppb	-0.08
69) Phenanthrene-d10	12.023	188	324158	40.00	ppb	-0.08
83) Chrysene-d12	15.837	240	298743	40.00	ppb	-0.06
92) Perylene-d12	17.495	264	251392	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.070	152	92890	40.00	ppb	-0.08
104) Acenaphthene-d10a	9.734	164	205101	40.00	ppb	-0.08
106) Chrysene-d12a	15.837	240	298743	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	205101	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.417	112	66103	21.96	ppb	-0.04
Spiked Amount 50.000			Recovery	=	43.92%	
8) Phenol-d5	4.792	99	71914	18.07	ppb	-0.02
Spiked Amount 50.000			Recovery	=	36.14%	
25) Nitrobenzene-d5	5.947	82	88854	24.83	ppb	-0.07
Spiked Amount 50.000			Recovery	=	49.66%	
51) 2-Fluorobiphenyl	8.750	172	163164	23.39	ppb	-0.07
Spiked Amount 50.000			Recovery	=	46.78%	
73) 2,4,6-Tribromophenol	11.007	330	13914	19.06	ppb	-0.06
Spiked Amount 50.000			Recovery	=	38.12%	
85) Terphenyl-d14	14.526	244	160233	30.76	ppb	-0.06
Spiked Amount 50.000			Recovery	=	61.52%	
Target Compounds						Qvalue

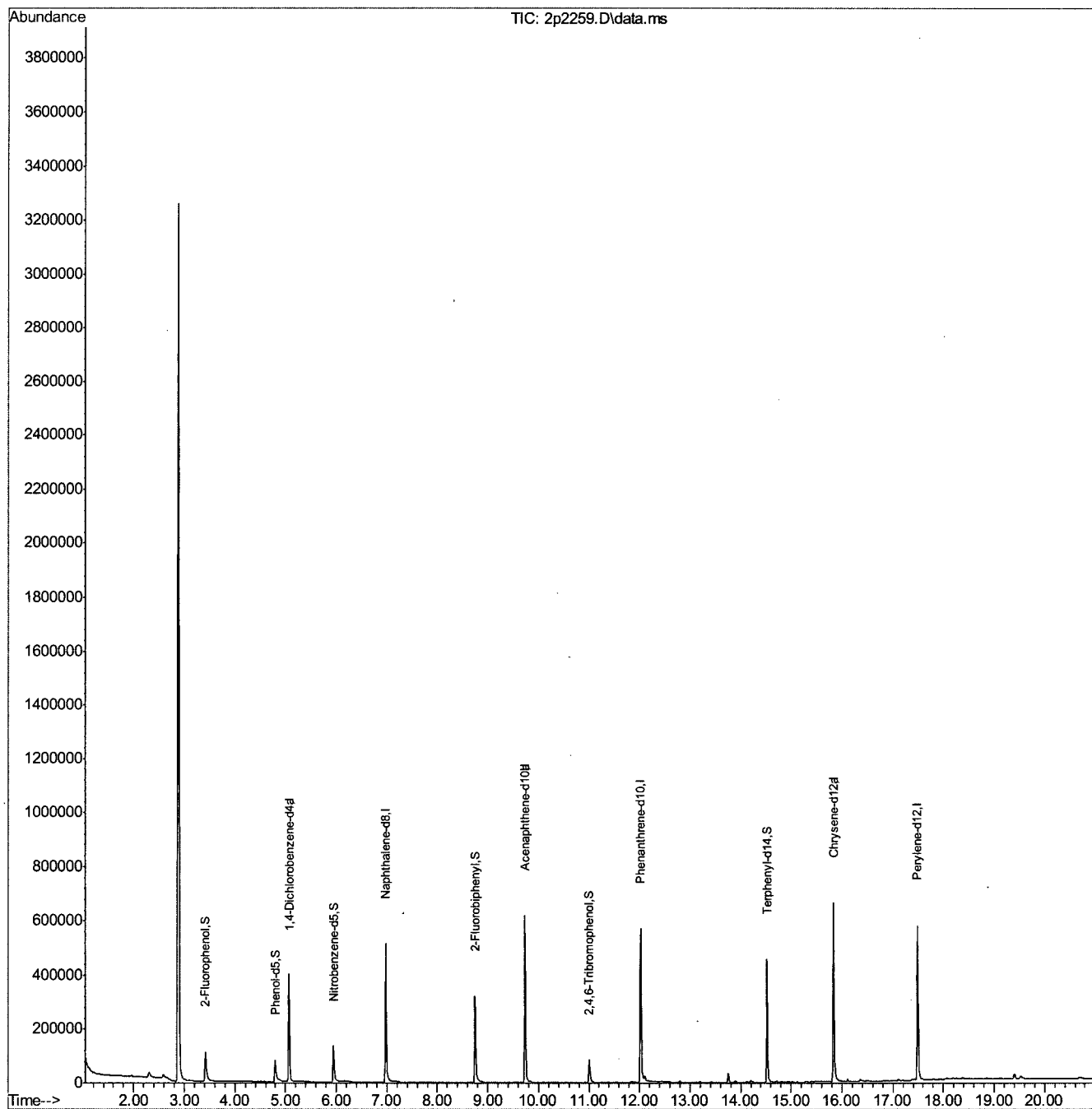
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.19  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2259.D  
Acq On : 2 Nov 2010 2:12 pm  
Operator : ninap  
Sample : ja58750-9  
Misc : op46301,e2p127,35.2,,,1,1  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 03 10:02:49 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p128\  
 Data File : 2p2280.D  
 Acq On : 3 Nov 2010 1:50 pm  
 Operator : krutikap  
 Sample : ja58750-10  
 Misc : op46301,e2p128,35.1,,,1,1  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 03 14:59:45 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.054	152	113447	40.00	ppb	-0.10
24) Naphthalene-d8	6.963	136	425386	40.00	ppb	-0.10
47) Acenaphthene-d10	9.718	164	234483	40.00	ppb	-0.10
69) Phenanthrene-d10	12.002	188	366598	40.00	ppb	-0.10
83) Chrysene-d12	15.815	240	329246	40.00	ppb	-0.09
92) Perylene-d12	17.468	264	268566	40.00	ppb	-0.09
102) 1,4-Dichlorobenzene-d4a	5.054	152	113447	40.00	ppb	-0.10
104) Acenaphthene-d10a	9.718	164	234483	40.00	ppb	-0.10
106) Chrysene-d12a	15.815	240	329246	40.00	ppb	-0.09
108) Acenaphthene-d10b	9.718	164	234483	40.00	ppb	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	3.401	112	99613	27.09	ppb	-0.05
Spiked Amount 50.000			Recovery	=	54.18%	
8) Phenol-d5	4.765	99	122414	25.18	ppb	-0.05
Spiked Amount 50.000			Recovery	=	50.36%	
25) Nitrobenzene-d5	5.925	82	132128	30.59	ppb	-0.10
Spiked Amount 50.000			Recovery	=	61.18%	
51) 2-Fluorobiphenyl	8.728	172	229151	28.74	ppb	-0.10
Spiked Amount 50.000			Recovery	=	57.48%	
73) 2,4,6-Tribromophenol	10.980	330	18679	22.63	ppb	-0.09
Spiked Amount 50.000			Recovery	=	45.26%	
85) Terphenyl-d14	14.505	244	196039	34.15	ppb	-0.09
Spiked Amount 50.000			Recovery	=	68.30%	
Target Compounds						Qvalue

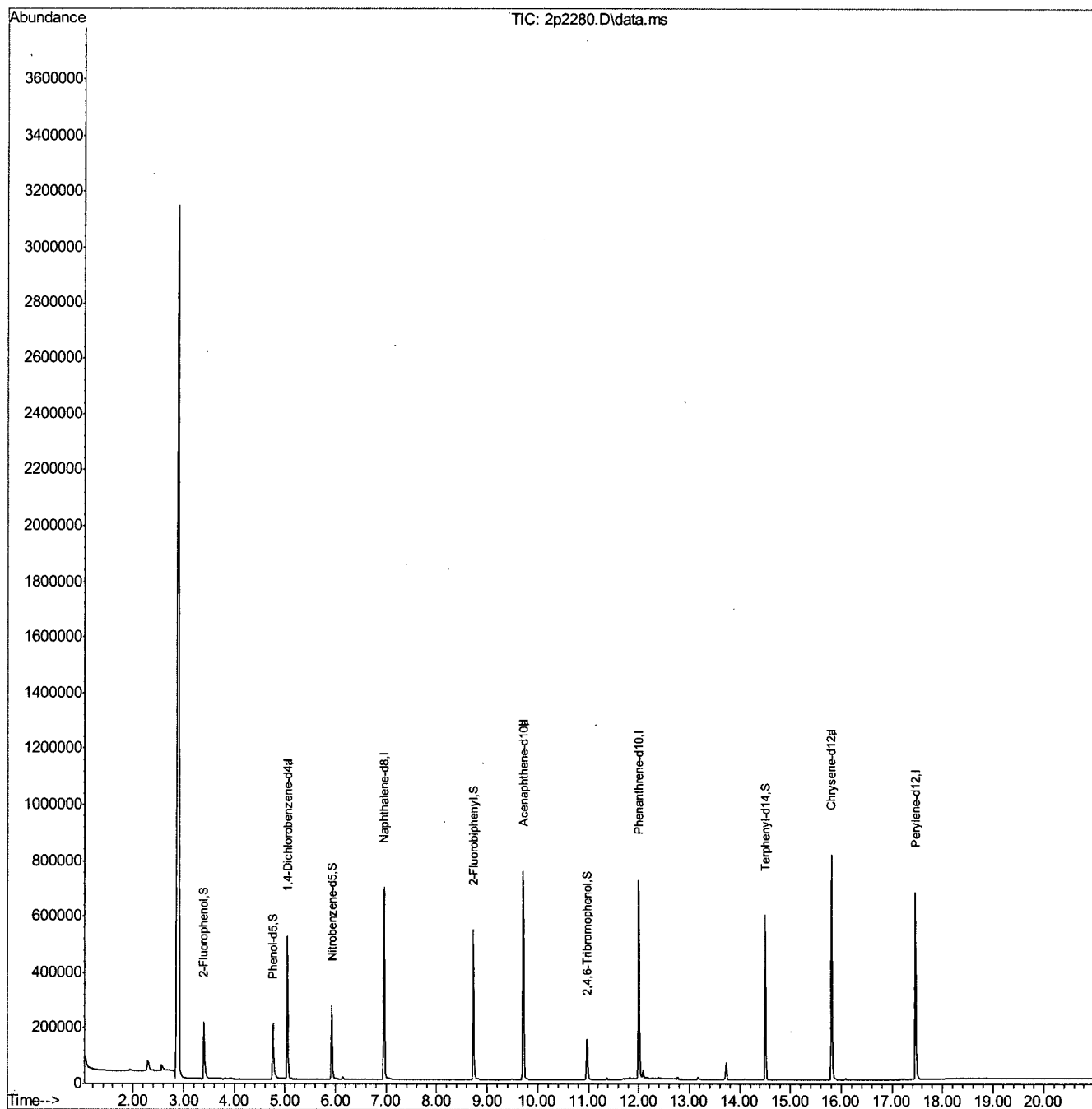
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.10  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p128\  
Data File : 2p2280.D  
Acq On : 3 Nov 2010 1:50 pm  
Operator : krutikap  
Sample : ja58750-10  
Misc : op46301,e2p128,35.1,,,1,1  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 03 14:59:45 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2261.D  
 Acq On : 2 Nov 2010 3:59 pm  
 Operator : ninap  
 Sample : ja58750-11  
 Misc : op46301,e2p127,35.3,,,1,1  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 03 10:04:39 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.070	152	117757	40.00	ppb	-0.08
24) Naphthalene-d8	6.979	136	461610	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	264177	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	425836	40.00	ppb	-0.08
83) Chrysene-d12	15.842	240	389187	40.00	ppb	-0.06
92) Perylene-d12	17.495	264	303309	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.070	152	117757	40.00	ppb	-0.08
104) Acenaphthene-d10a	9.734	164	264177	40.00	ppb	-0.08
106) Chrysene-d12a	15.842	240	389187	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	264177	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.417	112	104774	27.45	ppb	-0.04
Spiked Amount 50.000			Recovery	=	54.90%	
8) Phenol-d5	4.786	99	121785	24.13	ppb	-0.03
Spiked Amount 50.000			Recovery	=	48.26%	
25) Nitrobenzene-d5	5.941	82	136969	29.22	ppb	-0.08
Spiked Amount 50.000			Recovery	=	58.44%	
51) 2-Fluorobiphenyl	8.750	172	258068	28.73	ppb	-0.08
Spiked Amount 50.000			Recovery	=	57.46%	
73) 2,4,6-Tribromophenol	11.007	330	21147	22.06	ppb	-0.06
Spiked Amount 50.000			Recovery	=	44.12%	
85) Terphenyl-d14	14.526	244	241214	35.54	ppb	-0.06
Spiked Amount 50.000			Recovery	=	71.08%	

Target Compounds	Qvalue
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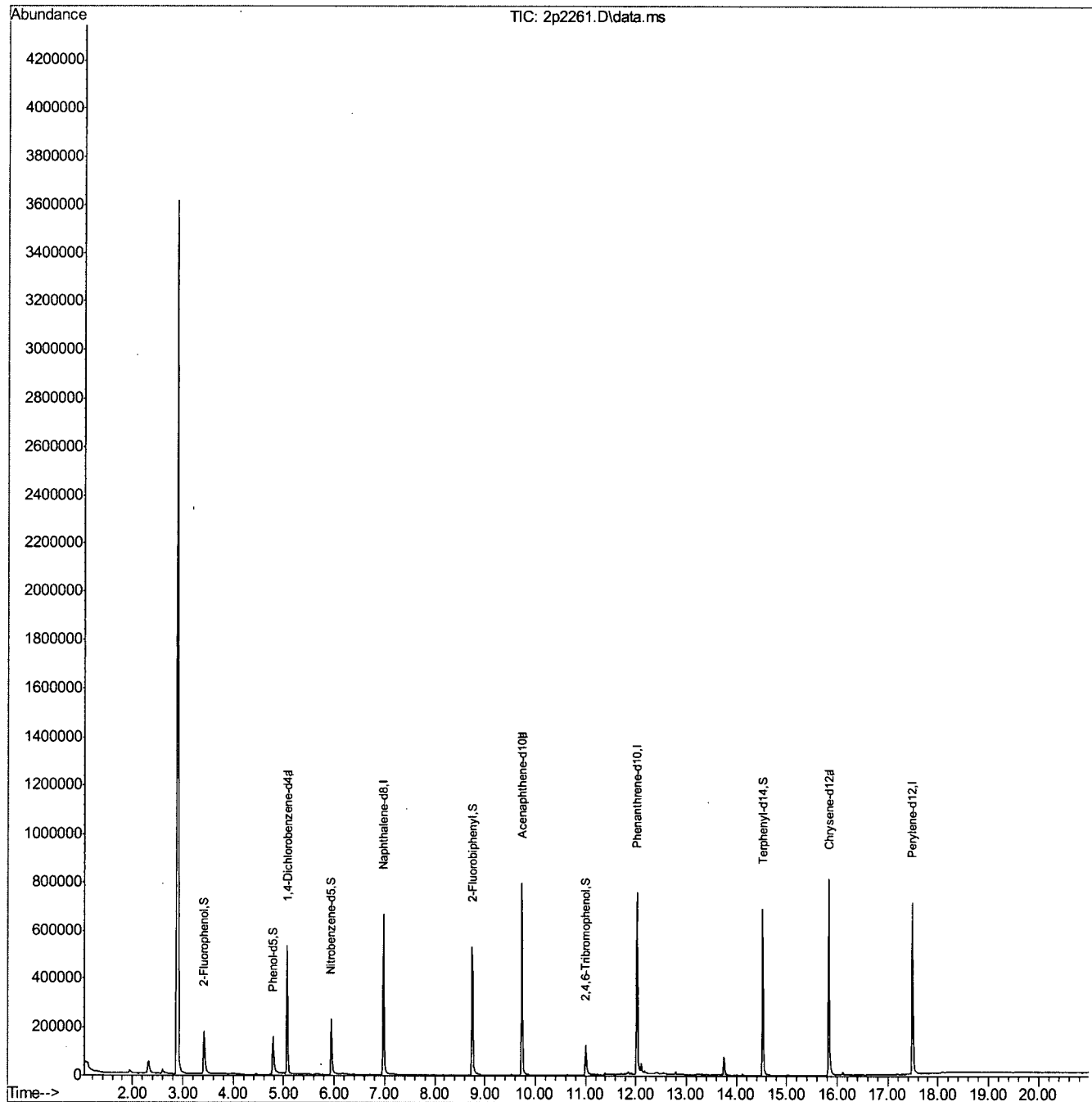
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.11  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2261.D  
Acq On : 2 Nov 2010 3:59 pm  
Operator : ninap  
Sample : ja58750-11  
Misc : op46301,e2p127,35.3,,,1,1  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 03 10:04:39 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p128\  
 Data File : 2p2281.D  
 Acq On : 3 Nov 2010 2:16 pm  
 Operator : krutikap  
 Sample : ja58750-12  
 Misc : op46301,e2p128,35.3,,,1,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 03 15:00:49 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.054	152	94389	40.00	ppb	-0.10
24) Naphthalene-d8	6.963	136	355770	40.00	ppb	-0.10
47) Acenaphthene-d10	9.718	164	199488	40.00	ppb	-0.10
69) Phenanthrene-d10	12.002	188	308016	40.00	ppb	-0.10
83) Chrysene-d12	15.815	240	287939	40.00	ppb	-0.09
92) Perylene-d12	17.468	264	219233	40.00	ppb	-0.09
102) 1,4-Dichlorobenzene-d4a	5.054	152	94389	40.00	ppb	-0.10
104) Acenaphthene-d10a	9.718	164	199488	40.00	ppb	-0.10
106) Chrysene-d12a	15.815	240	287939	40.00	ppb	-0.09
108) Acenaphthene-d10b	9.718	164	199488	40.00	ppb	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	3.406	112	58222	19.03	ppb	-0.05
Spiked Amount 50.000			Recovery	=	38.06%	
8) Phenol-d5	4.770	99	69287	17.13	ppb	-0.04
Spiked Amount 50.000			Recovery	=	34.26%	
25) Nitrobenzene-d5	5.926	82	74532	20.63	ppb	-0.10
Spiked Amount 50.000			Recovery	=	41.26%	
51) 2-Fluorobiphenyl	8.728	172	130932	19.30	ppb	-0.10
Spiked Amount 50.000			Recovery	=	38.60%	
73) 2,4,6-Tribromophenol	10.980	330	12281	17.71	ppb	-0.09
Spiked Amount 50.000			Recovery	=	35.42%	
85) Terphenyl-d14	14.505	244	131877	26.27	ppb	-0.09
Spiked Amount 50.000			Recovery	=	52.54%	
Target Compounds						
55) Dimethylphthalate	9.488	163	6821	1.04	ppb	Qvalue 99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

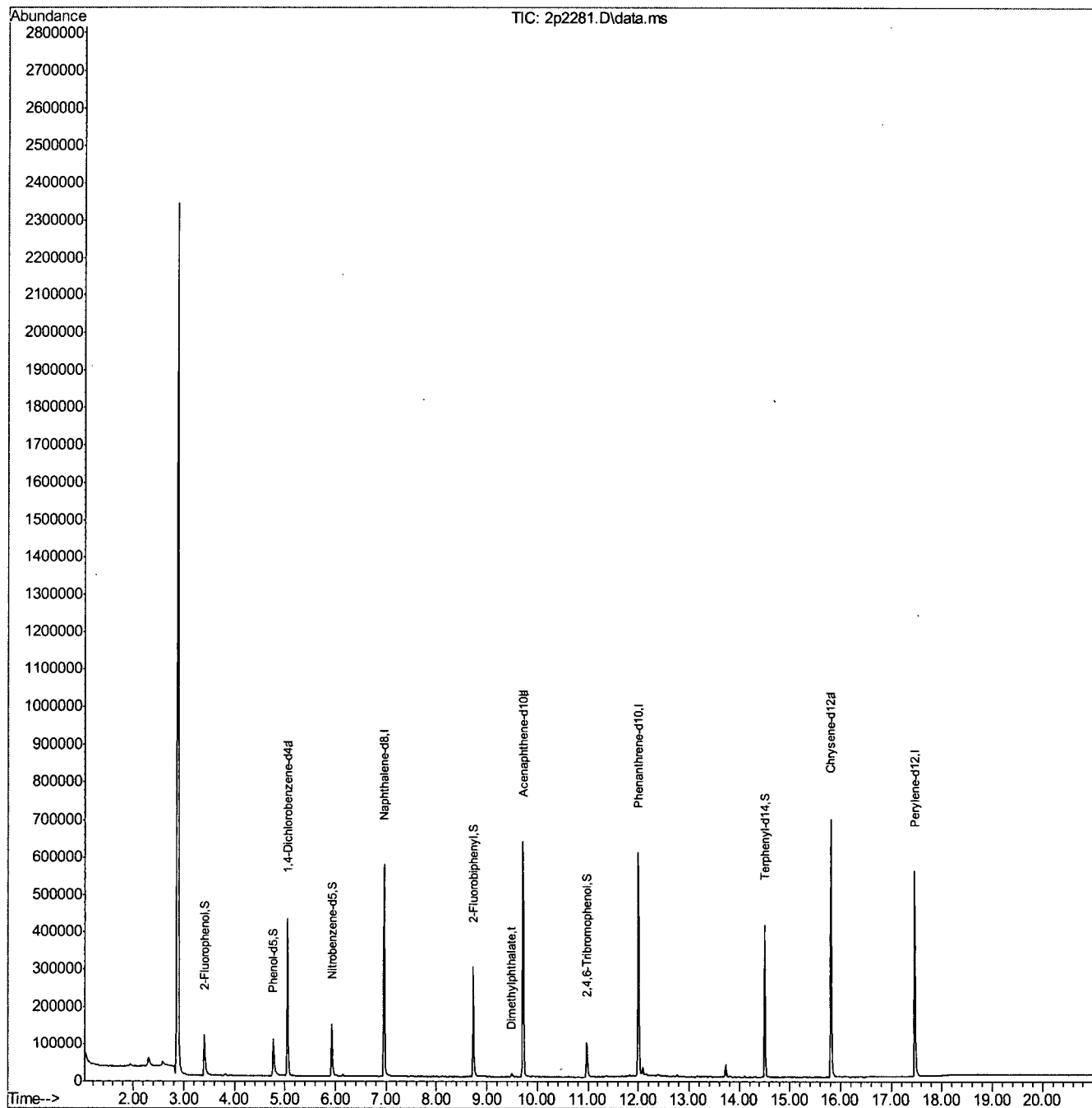
8.1.12  
8

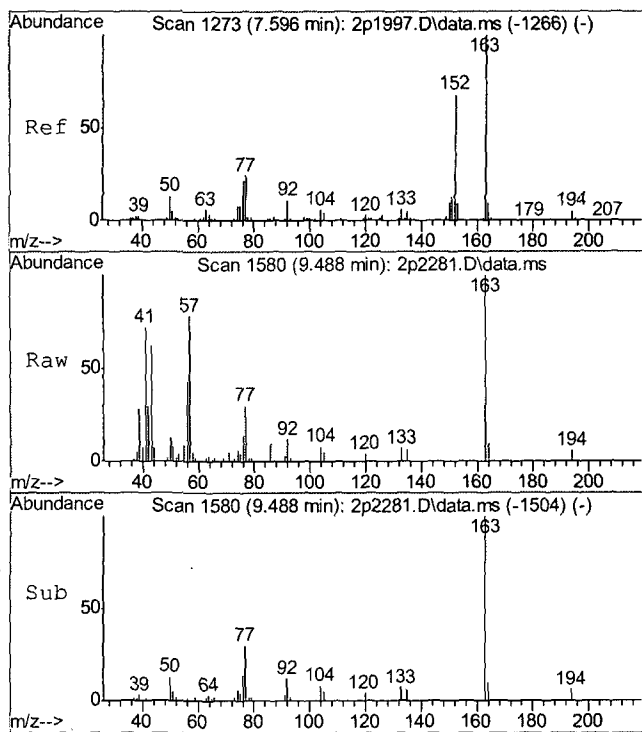


## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p128\  
Data File : 2p2281.D  
Acq On : 3 Nov 2010 2:16 pm  
Operator : krutikap  
Sample : ja58750-12  
Misc : op46301,e2p128,35.3,,,1,1  
ALS Vial : 5 Sample Multiplier: 1

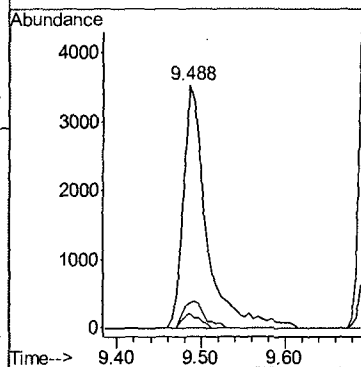
Quant Time: Nov 03 15:00:49 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
Qlast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration





#55  
Dimethylphthalate  
Concen: 1.04 ppb  
RT: 9.488 min Scan# 1580  
Delta R.T. -0.091 min  
Lab File: 2p2281.D  
Acq: 3 Nov 2010 2:16 pm

Tgt Ion:163 Resp: 6821  
Ion Ratio Lower Upper  
163 100  
194 6.2 0.0 35.5  
164 10.4 0.0 40.3

8.112  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2264.D  
 Acq On : 2 Nov 2010 5:16 pm  
 Operator : ninap  
 Sample : ja58750-13  
 Misc : op46301,e2p127,35.1,,,1,1  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 03 10:12:42 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.070	152	77826	40.00	ppb	-0.08
24) Naphthalene-d8	6.979	136	308755	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	185155	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	292369	40.00	ppb	-0.07
83) Chrysene-d12	15.836	240	256378	40.00	ppb	-0.06
92) Perylene-d12	17.489	264	204719	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.070	152	77826	40.00	ppb	-0.08
104) Acenaphthene-d10a	9.734	164	185155	40.00	ppb	-0.08
106) Chrysene-d12a	15.836	240	256378	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	185155	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.422	112	59346	23.53	ppb	-0.03
Spiked Amount 50.000			Recovery =	47.06%		
8) Phenol-d5	4.797	99	58500	17.54	ppb	-0.02
Spiked Amount 50.000			Recovery =	35.08%		
25) Nitrobenzene-d5	5.947	82	77051	24.58	ppb	-0.07
Spiked Amount 50.000			Recovery =	49.16%		
51) 2-Fluorobiphenyl	8.750	172	153844	24.43	ppb	-0.07
Spiked Amount 50.000			Recovery =	48.86%		
73) 2,4,6-Tribromophenol	11.012	330	12541	19.05	ppb	-0.05
Spiked Amount 50.000			Recovery =	38.10%		
85) Terphenyl-d14	14.526	244	155402	34.76	ppb	-0.06
Spiked Amount 50.000			Recovery =	69.52%		

Target Compounds Qvalue

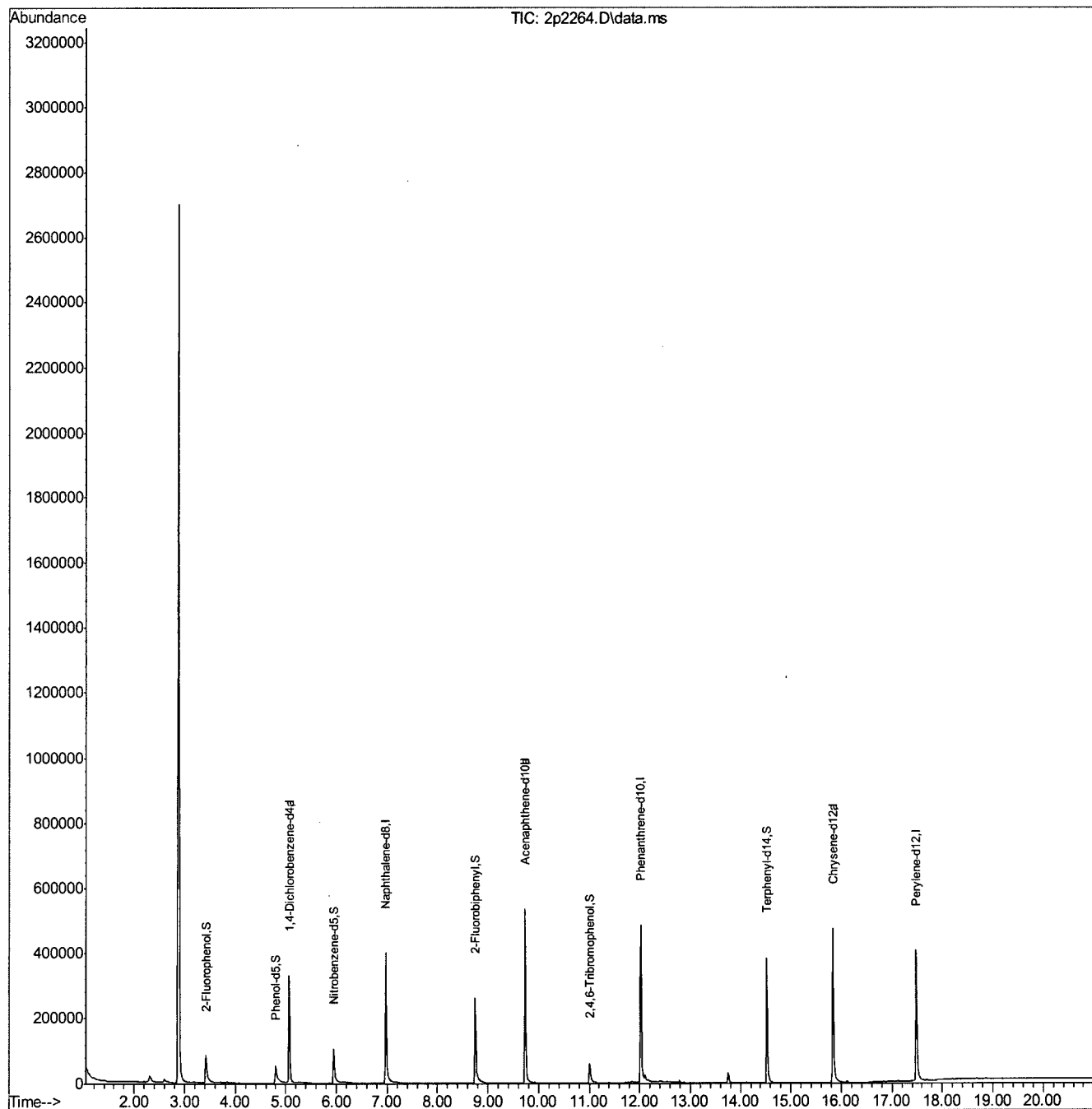
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.13  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2264.D  
Acq On : 2 Nov 2010 5:16 pm  
Operator : ninap  
Sample : ja58750-13  
Misc : op46301,e2p127,35.1,,,1,1  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 03 10:12:42 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2265.D  
 Acq On : 2 Nov 2010 5:42 pm  
 Operator : ninap  
 Sample : ja58750-14  
 Misc : op46301,e2p127,35.3,,,1,1  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 03 11:31:01 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.064	152	137186	80.00	ppb	-0.09
24) Naphthalene-d8	6.979	136	538629	80.00	ppb	-0.09
47) Acenaphthene-d10	9.739	164	314632	80.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	509405	80.00	ppb	-0.07
83) Chrysene-d12	15.836	240	459837	80.00	ppb	-0.06
92) Perylene-d12	17.489	264	359975	80.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.064	152	137186	80.00	ppb	-0.09
104) Acenaphthene-d10a	9.739	164	314632	80.00	ppb	-0.08
106) Chrysene-d12a	15.836	240	459837	80.00	ppb	-0.06
108) Acenaphthene-d10b	9.739	164	314632	80.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.417	112	104390	46.96	ppb	-0.04
Spiked Amount 50.000			Recovery	=	93.92%	
8) Phenol-d5	4.786	99	115096	39.16	ppb	-0.03
Spiked Amount 50.000			Recovery	=	78.32%	
25) Nitrobenzene-d5	5.941	82	134457	49.17	ppb	-0.08
Spiked Amount 50.000			Recovery	=	98.34%	
51) 2-Fluorobiphenyl	8.749	172	245075	45.81	ppb	-0.08
Spiked Amount 50.000			Recovery	=	91.62%	
73) 2,4,6-Tribromophenol	11.007	330	17230	30.04	ppb	-0.06
Spiked Amount 50.000			Recovery	=	60.08%	
85) Terphenyl-d14	14.526	244	215475	53.75	ppb	-0.06
Spiked Amount 50.000			Recovery	=	107.50%	

Target Compounds Qvalue

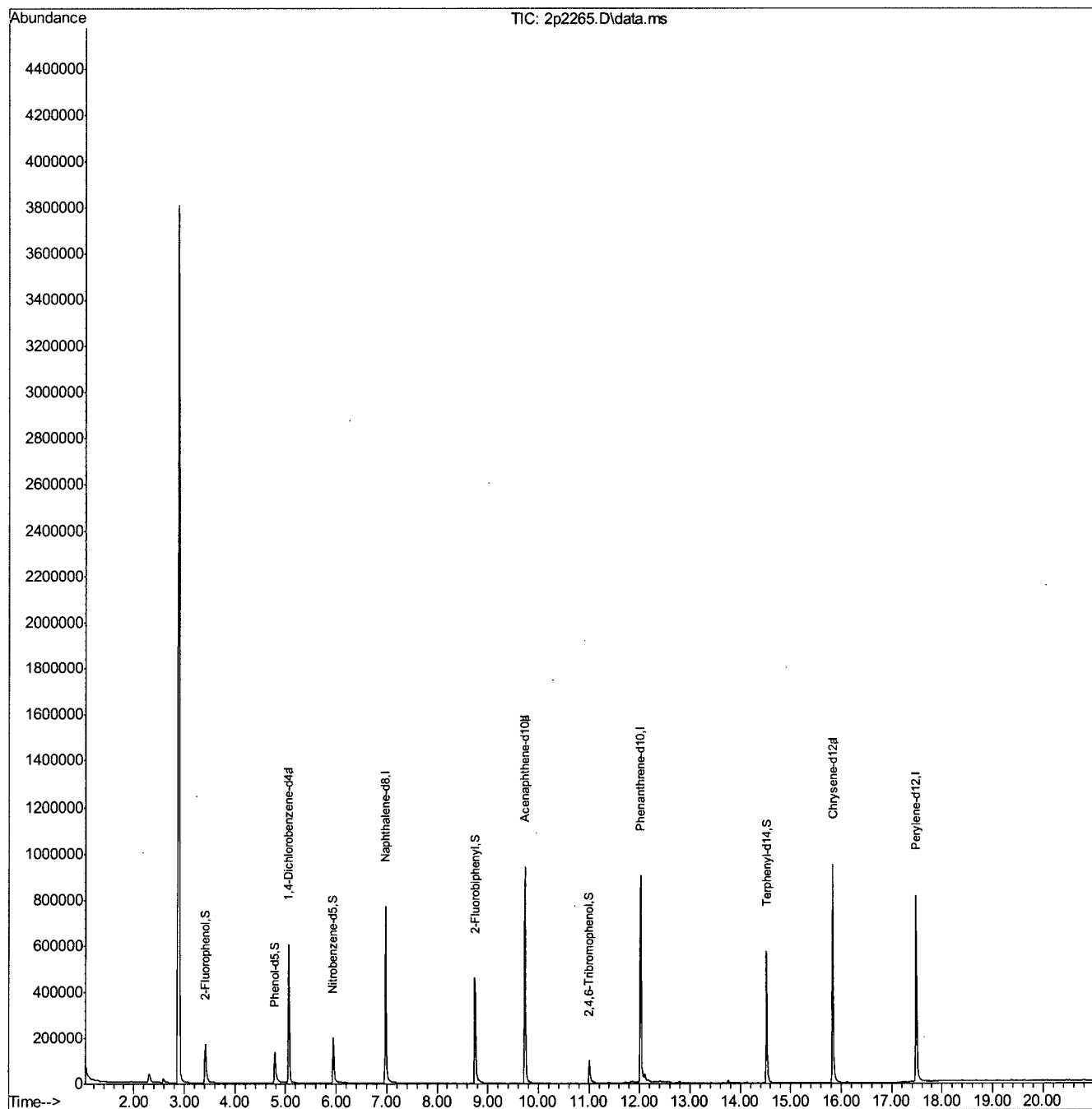
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.14  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2265.D  
Acq On : 2 Nov 2010 5:42 pm  
Operator : ninap  
Sample : ja58750-14  
Misc : op46301,e2p127,35.3,,,1,1  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 03 11:31:01 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2266.D  
 Acq On : 2 Nov 2010 6:07 pm  
 Operator : ninap  
 Sample : ja58750-15  
 Misc : op46301,e2p127,35.2,,,1,1  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 03 10:14:59 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.064	152	89757	40.00	ppb	-0.09
24) Naphthalene-d8	6.979	136	355880	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	209707	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	332344	40.00	ppb	-0.07
83) Chrysene-d12	15.837	240	294806	40.00	ppb	-0.06
92) Perylene-d12	17.495	264	227089	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.064	152	89757	40.00	ppb	-0.09
104) Acenaphthene-d10a	9.734	164	209707	40.00	ppb	-0.08
106) Chrysene-d12a	15.837	240	294806	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	209707	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.417	112	85300	29.32	ppb	-0.04
Spiked Amount 50.000			Recovery =	58.64%		
8) Phenol-d5	4.786	99	90167	23.44	ppb	-0.03
Spiked Amount 50.000			Recovery =	46.88%		
25) Nitrobenzene-d5	5.947	82	107082	29.63	ppb	-0.07
Spiked Amount 50.000			Recovery =	59.26%		
51) 2-Fluorobiphenyl	8.750	172	204710	28.71	ppb	-0.07
Spiked Amount 50.000			Recovery =	57.42%		
73) 2,4,6-Tribromophenol	11.012	330	14577	19.48	ppb	-0.05
Spiked Amount 50.000			Recovery =	38.96%		
85) Terphenyl-d14	14.526	244	186335	36.25	ppb	-0.06
Spiked Amount 50.000			Recovery =	72.50%		

Target Compounds Qvalue

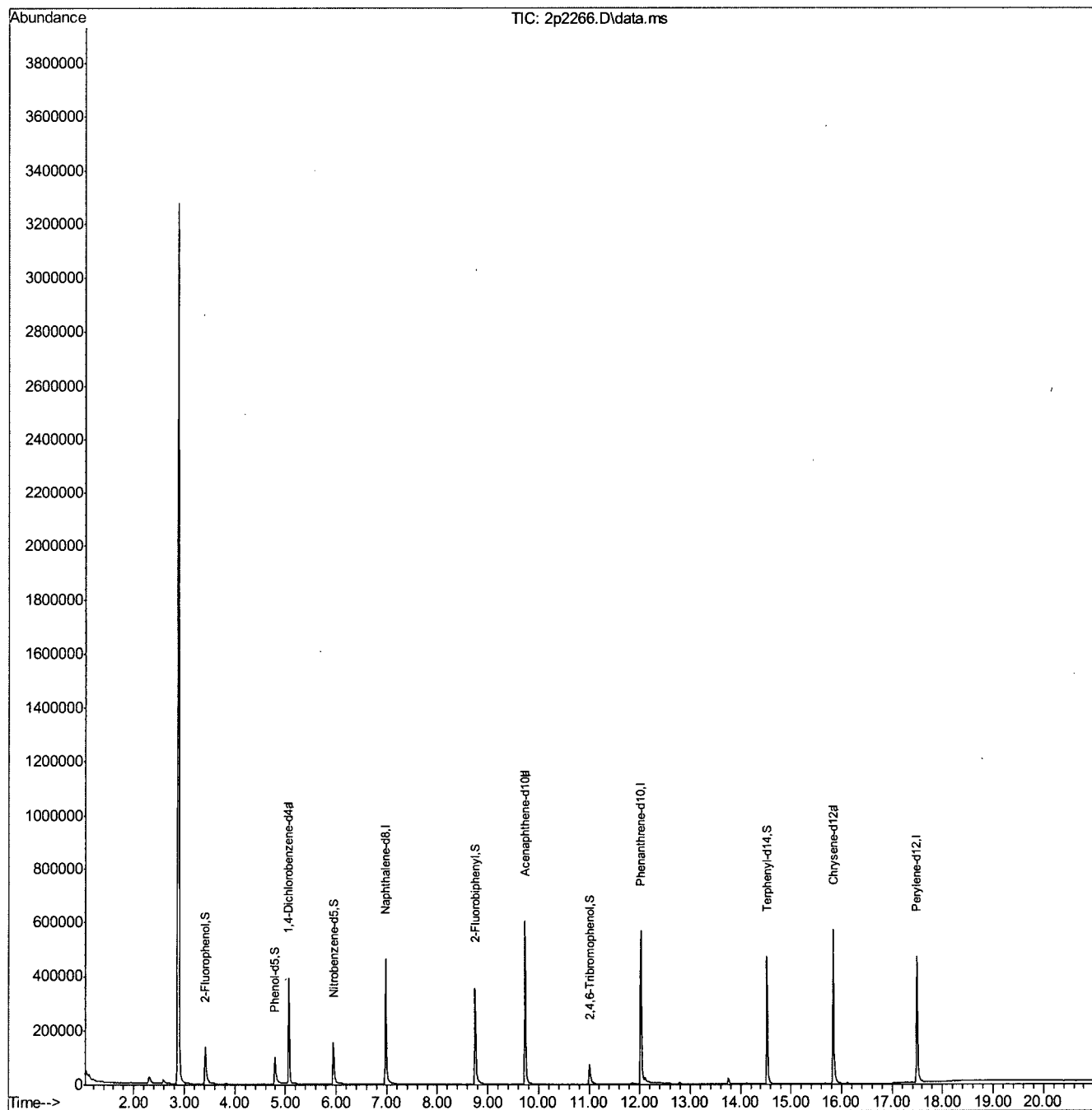
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.15  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2266.D  
Acq On : 2 Nov 2010 6:07 pm  
Operator : ninap  
Sample : ja58750-15  
Misc : op46301,e2p127,35.2,,,1,1  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 03 10:14:59 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2267.D  
 Acq On : 2 Nov 2010 6:33 pm  
 Operator : ninap  
 Sample : ja58750-16  
 Misc : op46301,e2p127,35.1,,,1,1  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 03 10:40:10 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.070	152	113197	40.00	ppb	-0.08
24) Naphthalene-d8	6.979	136	442313	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	257789	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	416210	40.00	ppb	-0.08
83) Chrysene-d12	15.836	240	375326	40.00	ppb	-0.06
92) Perylene-d12	17.495	264	315785	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.070	152	113197	40.00	ppb	-0.08
104) Acenaphthene-d10a	9.734	164	257789	40.00	ppb	-0.08
106) Chrysene-d12a	15.836	240	375326	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	257789	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.422	112	101327	27.62	ppb	-0.03
Spiked Amount 50.000			Recovery	=	55.24%	
8) Phenol-d5	4.786	99	111032	22.89	ppb	-0.03
Spiked Amount 50.000			Recovery	=	45.78%	
25) Nitrobenzene-d5	5.941	82	141001	31.39	ppb	-0.08
Spiked Amount 50.000			Recovery	=	62.78%	
51) 2-Fluorobiphenyl	8.750	172	261647	29.85	ppb	-0.08
Spiked Amount 50.000			Recovery	=	59.70%	
73) 2,4,6-Tribromophenol	11.007	330	23034	24.58	ppb	-0.06
Spiked Amount 50.000			Recovery	=	49.16%	
85) Terphenyl-d14	14.526	244	234642	35.85	ppb	-0.06
Spiked Amount 50.000			Recovery	=	71.70%	

Target Compounds Qvalue

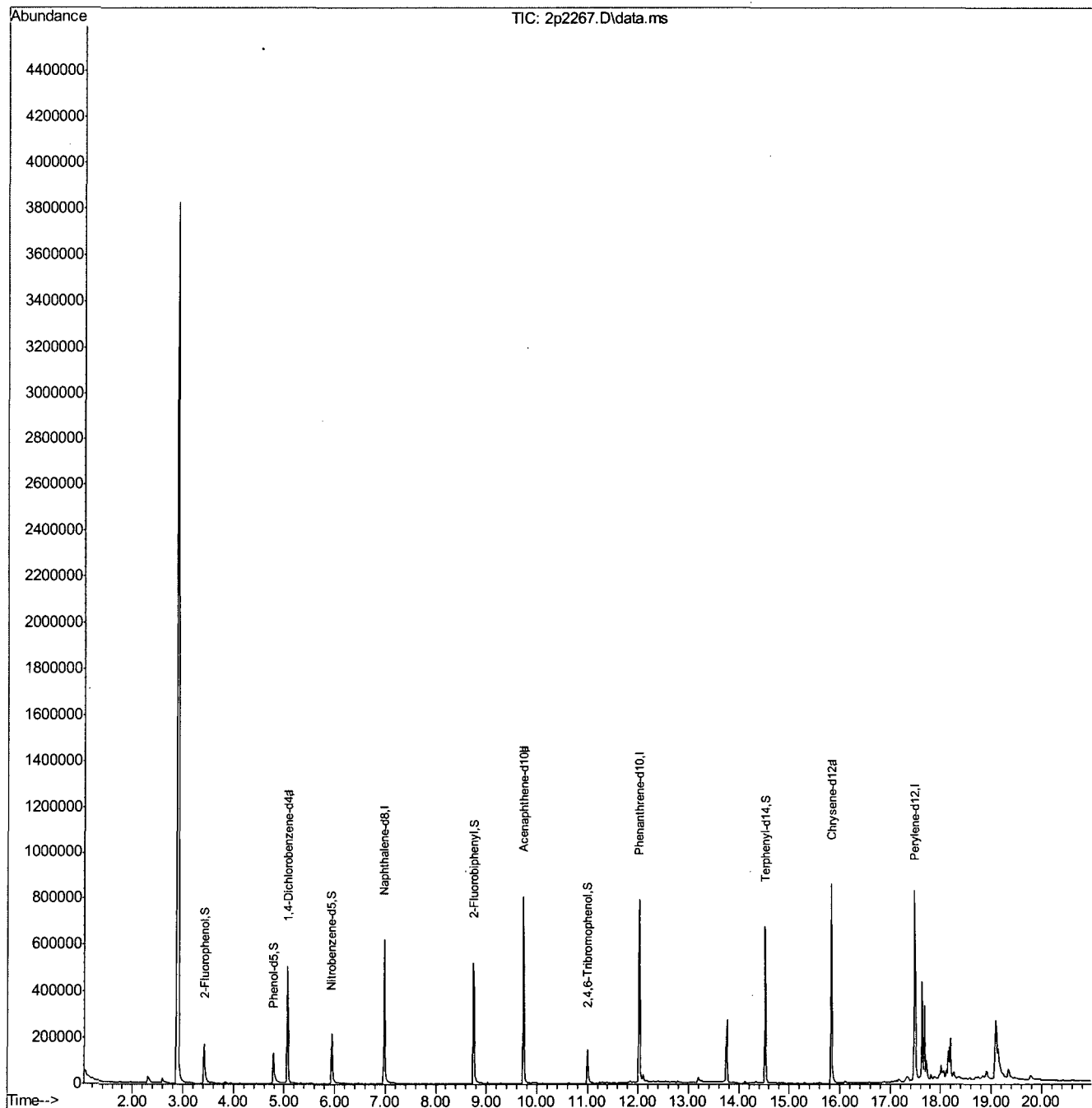
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.16  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2267.D  
Acq On : 2 Nov 2010 6:33 pm  
Operator : ninap  
Sample : ja58750-16  
Misc : op46301,e2p127,35.1,,,1,1  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 03 10:40:10 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2268.D  
 Acq On : 2 Nov 2010 7:24 pm  
 Operator : ninap  
 Sample : ja58750-17  
 Misc : op46301,e2p127,35.2,,,1,1  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 03 11:32:11 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.064	152	140532	80.00	ppb	-0.09
24) Naphthalene-d8	6.979	136	545418	80.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	319164	80.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	502456	80.00	ppb	-0.07
83) Chrysene-d12	15.837	240	461377	80.00	ppb	-0.06
92) Perylene-d12	17.495	264	390040	80.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.064	152	140532	80.00	ppb	-0.09
104) Acenaphthene-d10a	9.734	164	319164	80.00	ppb	-0.08
106) Chrysene-d12a	15.837	240	461377	80.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	319164	80.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.417	112	114890	50.45	ppb	-0.04
Spiked Amount 50.000			Recovery	= 100.90%		
8) Phenol-d5	4.786	99	124176	41.24	ppb	-0.03
Spiked Amount 50.000			Recovery	= 82.48%		
25) Nitrobenzene-d5	5.942	82	141646	51.15	ppb	-0.08
Spiked Amount 50.000			Recovery	= 102.30%		
51) 2-Fluorobiphenyl	8.750	172	260646	48.03	ppb	-0.07
Spiked Amount 50.000			Recovery	= 96.06%		
73) 2,4,6-Tribromophenol	11.007	330	22570	39.90	ppb	-0.06
Spiked Amount 50.000			Recovery	= 79.80%		
85) Terphenyl-d14	14.526	244	234855	58.38	ppb	-0.06
Spiked Amount 50.000			Recovery	= 116.76%		

Target Compounds Qvalue

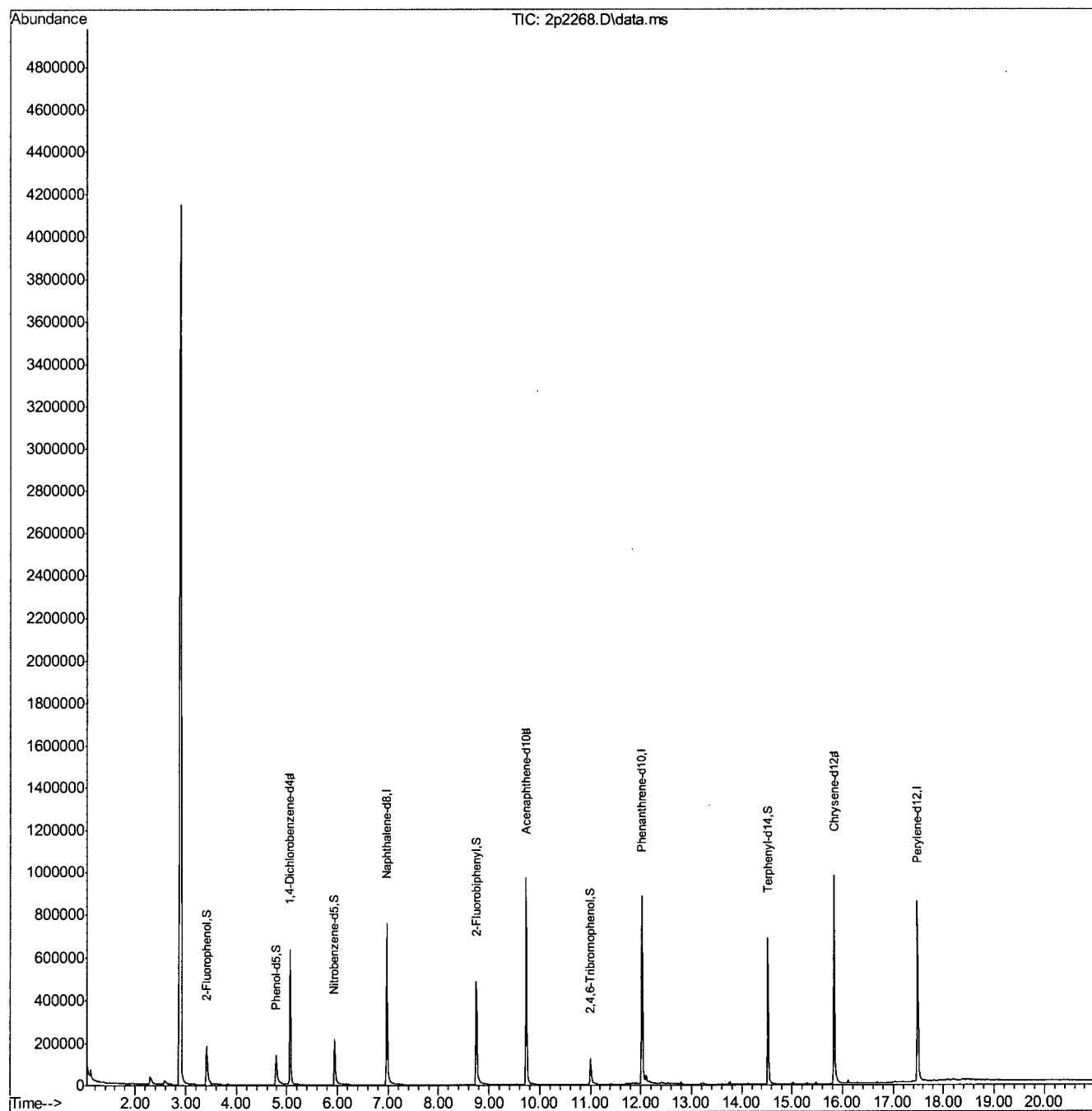
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.1.17  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2268.D  
Acq On : 2 Nov 2010 7:24 pm  
Operator : ninap  
Sample : ja58750-17  
Misc : op46301,e2p127,35.2,,,1,1  
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 03 11:32:11 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2269.D  
 Acq On : 2 Nov 2010 8:16 pm  
 Operator : ninap  
 Sample : ja58750-18  
 Misc : op46301,e2p127,35.0,,,1,1  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 03 11:16:26 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.070	152	68849	40.00	ppb	-0.08
24) Naphthalene-d8	6.979	136	264325	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	155461	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	250396	40.00	ppb	-0.08
83) Chrysene-d12	15.836	240	231783	40.00	ppb	-0.06
92) Perylene-d12	17.489	264	188786	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.070	152	68849	40.00	ppb	-0.08
104) Acenaphthene-d10a	9.734	164	155461	40.00	ppb	-0.08
106) Chrysene-d12a	15.836	240	231783	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	155461	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.422	112	70912	31.78	ppb	-0.03
Spiked Amount 50.000			Recovery =	63.56%		
8) Phenol-d5	4.786	99	77835	26.38	ppb	-0.03
Spiked Amount 50.000			Recovery =	52.76%		
25) Nitrobenzene-d5	5.941	82	87318	32.53	ppb	-0.08
Spiked Amount 50.000			Recovery =	65.06%		
51) 2-Fluorobiphenyl	8.750	172	161756	30.60	ppb	-0.08
Spiked Amount 50.000			Recovery =	61.20%		
73) 2,4,6-Tribromophenol	11.007	330	16508	29.28	ppb	-0.06
Spiked Amount 50.000			Recovery =	58.56%		
85) Terphenyl-d14	14.526	244	159700	39.51	ppb	-0.06
Spiked Amount 50.000			Recovery =	79.02%		
Target Compounds						
81) Fluoranthene	13.900	202	2922	0.41	ppb	96
84) Pyrene	14.200	202	2907	0.41	ppb	95

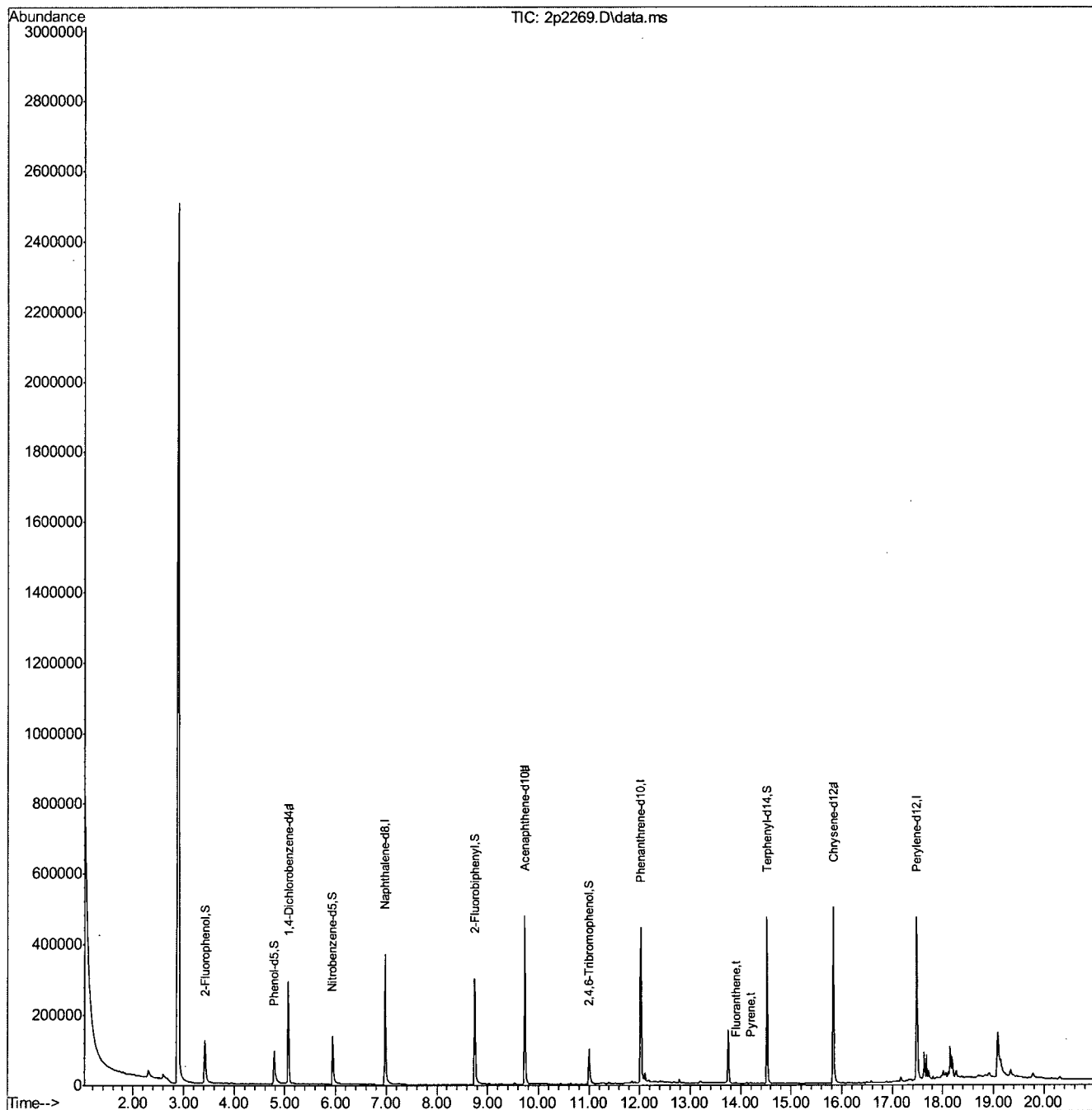
(#) = qualifier out of range (m) = manual integration (+) = signals summed

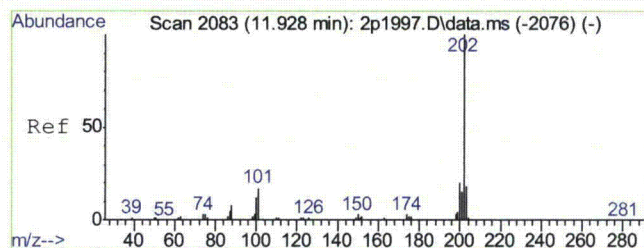
8.1.18  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2269.D  
Acq On : 2 Nov 2010 8:16 pm  
Operator : ninap  
Sample : ja58750-18  
Misc : op46301,e2p127,35.0,,,1,1  
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 03 11:16:26 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration

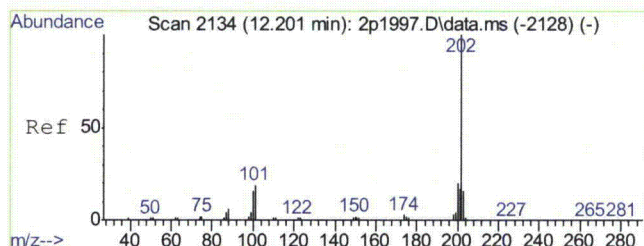
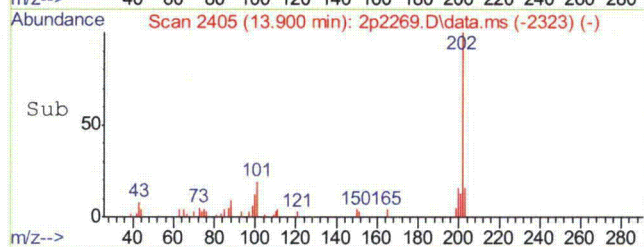
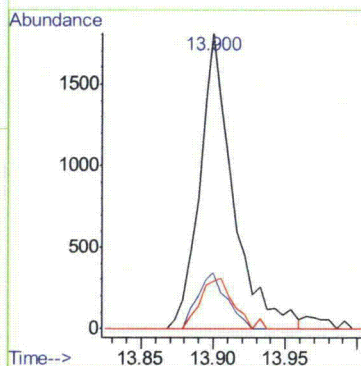
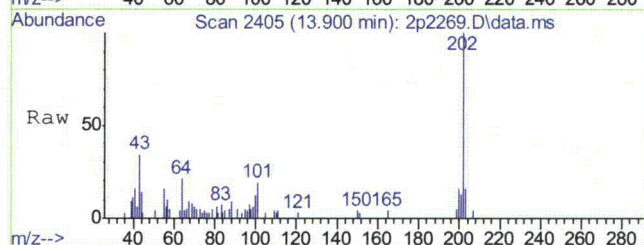




#81  
Fluoranthene  
Concen: 0.41 ppb  
RT: 13.900 min Scan# 2405  
Delta R.T. -0.059 min  
Lab File: 2p2269.D  
Acq: 2 Nov 2010 8:16 pm

Tgt Ion: 202 Resp: 2922

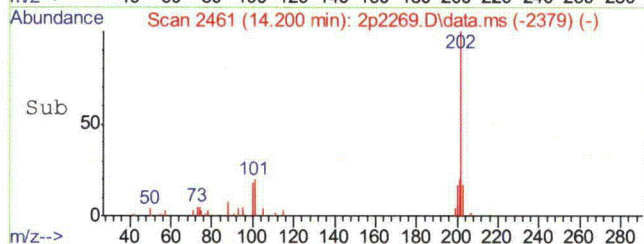
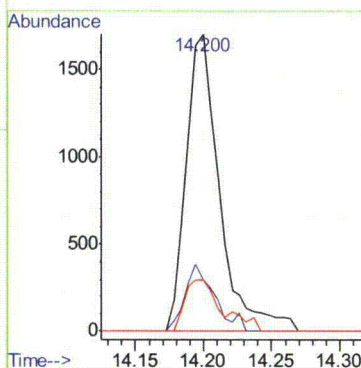
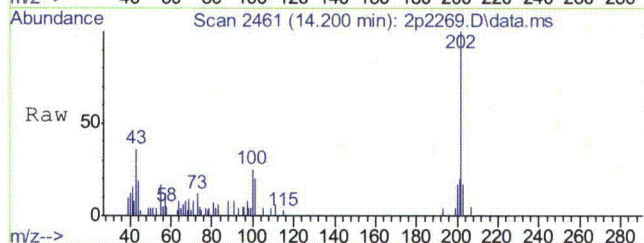
Ion	Ratio	Lower	Upper
202	100		
101	19.0	0.0	47.5
203	15.9	0.0	47.8



#84  
Pyrene  
Concen: 0.41 ppb  
RT: 14.200 min Scan# 2461  
Delta R.T. -0.059 min  
Lab File: 2p2269.D  
Acq: 2 Nov 2010 8:16 pm

Tgt Ion: 202 Resp: 2907

Ion	Ratio	Lower	Upper
202	100		
200	17.5	0.0	51.7
203	17.4	0.0	47.8



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2250.D  
 Acq On : 2 Nov 2010 10:21 am  
 Operator : ninap  
 Sample : op46301-mb1  
 Misc : op46301,e2p127,35.0,,,1,1  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 03 09:38:56 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.064	152	45823	40.00	ppb	-0.09
24) Naphthalene-d8	6.979	136	183327	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	104410	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	165231	40.00	ppb	-0.08
83) Chrysene-d12	15.836	240	152912	40.00	ppb	-0.06
92) Perylene-d12	17.495	264	130179	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.064	152	45823	40.00	ppb	-0.09
104) Acenaphthene-d10a	9.734	164	104410	40.00	ppb	-0.08
106) Chrysene-d12a	15.836	240	152912	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	104410	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.406	112	70446	47.43	ppb	-0.05
Spiked Amount 50.000			Recovery	=	94.86%	
8) Phenol-d5	4.781	99	83120	42.33	ppb	-0.03
Spiked Amount 50.000			Recovery	=	84.66%	
25) Nitrobenzene-d5	5.941	82	84493	45.39	ppb	-0.08
Spiked Amount 50.000			Recovery	=	90.78%	
51) 2-Fluorobiphenyl	8.750	172	152299	42.89	ppb	-0.08
Spiked Amount 50.000			Recovery	=	85.78%	
73) 2,4,6-Tribromophenol	11.007	330	13742	36.94	ppb	-0.06
Spiked Amount 50.000			Recovery	=	73.88%	
85) Terphenyl-d14	14.526	244	138635	51.99	ppb	-0.06
Spiked Amount 50.000			Recovery	=	103.98%	
Target Compounds					Qvalue	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

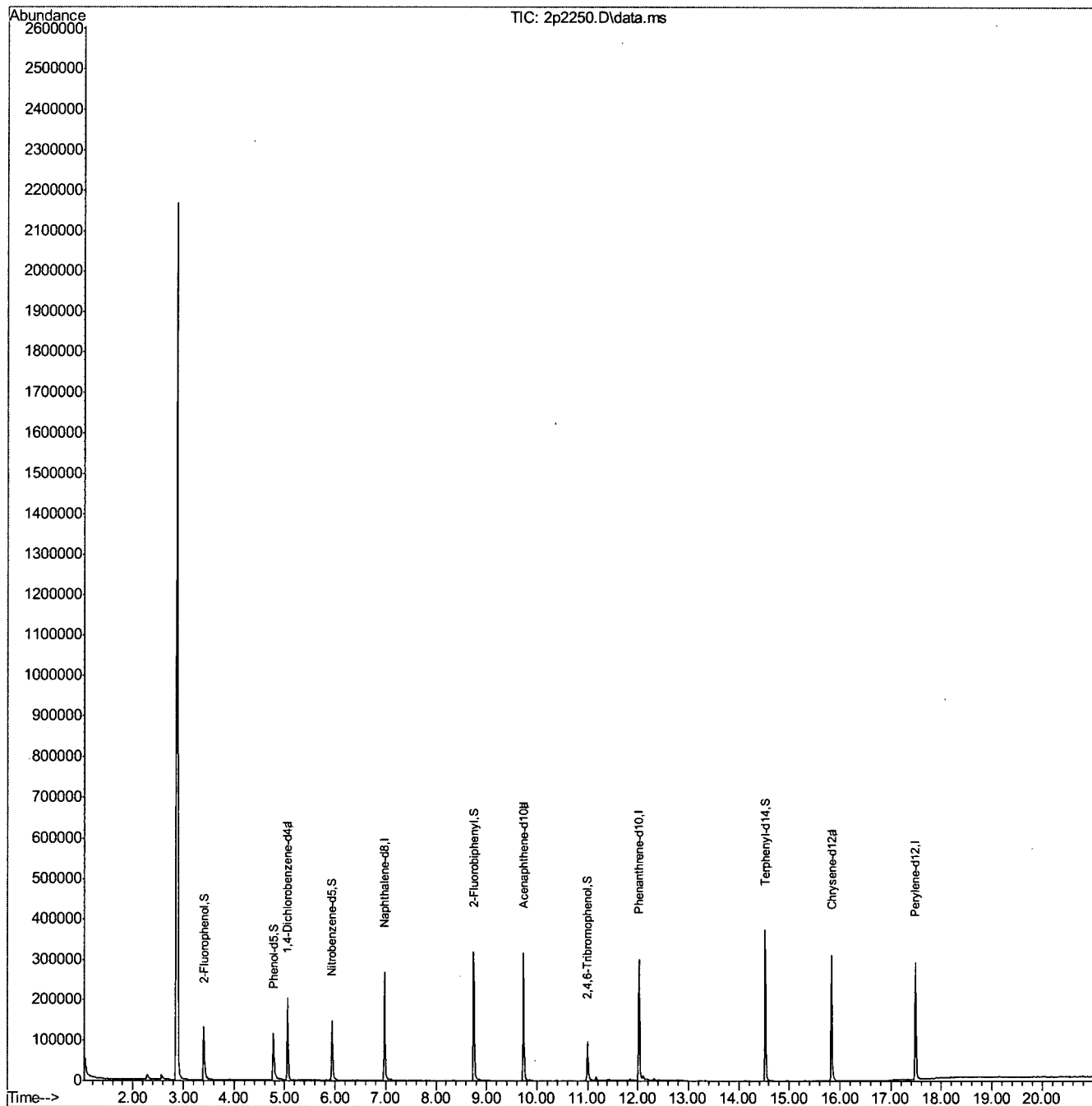
8.21  
8



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2250.D  
Acq On : 2 Nov 2010 10:21 am  
Operator : ninap  
Sample : op46301-mb1  
Misc : op46301,e2p127,35.0,,,1,1  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 03 09:38:56 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2251.D  
 Acq On : 2 Nov 2010 10:46 am  
 Operator : ninap  
 Sample : op46301-bs1  
 Misc : op46301,e2p127,35.0,,,1,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 03 09:45:19 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.064	152	83135	40.00	ppb	-0.09
24) Naphthalene-d8	6.979	136	320183	40.00	ppb	-0.09
47) Acenaphthene-d10	9.739	164	178982	40.00	ppb	-0.07
69) Phenanthrene-d10	12.028	188	284654	40.00	ppb	-0.07
83) Chrysene-d12	15.837	240	278265	40.00	ppb	-0.06
92) Perylene-d12	17.489	264	224564	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.064	152	83135	40.00	ppb	-0.09
104) Acenaphthene-d10a	9.739	164	178982	40.00	ppb	-0.07
106) Chrysene-d12a	15.837	240	278265	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.739	164	178982	40.00	ppb	-0.07
System Monitoring Compounds						
5) 2-Fluorophenol	3.417	112	113429	42.10	ppb	-0.04
Spiked Amount 50.000			Recovery	=	84.20%	
8) Phenol-d5	4.781	99	143069	40.16	ppb	-0.02
Spiked Amount 50.000			Recovery	=	80.32%	
25) Nitrobenzene-d5	5.942	82	156081	48.01	ppb	-0.08
Spiked Amount 50.000			Recovery	=	96.02%	
51) 2-Fluorobiphenyl	8.750	172	281702	46.28	ppb	-0.07
Spiked Amount 50.000			Recovery	=	92.56%	
73) 2,4,6-Tribromophenol	11.001	330	28643	44.69	ppb	-0.06
Spiked Amount 50.000			Recovery	=	89.38%	
85) Terphenyl-d14	14.526	244	259663	53.52	ppb	-0.06
Spiked Amount 50.000			Recovery	=	107.04%	
Target Compounds						
2) 1,4-Dioxane	1.352	88	27909	27.91	ppb	Qvalue 89
3) Pyridine	1.657	79	109363	36.20	ppb	92
4) N-Nitrosodimethylamine	1.652	74	72858	41.40	ppb	# 66
6) Indene	5.476	116	155861	38.98	ppb	97
7) Cumene	3.989	105	183990	33.81	ppb	97
9) Phenol	4.797	94	158206	42.09	ppb	62
10) Aniline	4.685	93	134557	35.85	ppb	87
11) bis(2-Chloroethyl)ether	4.797	93	128000	43.28	ppb	90
12) 2-Chlorophenol	4.840	128	120117	39.62	ppb	93
13) Decane	4.957	57	114452	39.40	ppb	90
14) 1,3-Dichlorobenzene	5.006	146	126537	39.31	ppb	99
15) 1,4-Dichlorobenzene	5.086	146	130401	39.67	ppb	100
16) Benzyl alcohol	5.380	108	78975	39.53	ppb	91
17) 1,2-Dichlorobenzene	5.359	146	124716	39.58	ppb	98
18) Acetophenone	5.733	105	173113	44.46	ppb	96
19) 2-Methylphenol	5.642	108	107423	41.06	ppb	98
20) 2,2'-oxybis(1-Chloropr...	5.610	121	41391	41.20	ppb	# 57
21) 3&4-Methylphenol	5.872	108	111299	39.69	ppb	100
22) n-Nitroso-di-n-propyla...	5.813	70	94111	45.92	ppb	88
23) Hexachloroethane	5.808	201	39377	39.22	ppb	94
26) Nitrobenzene	5.968	123	61296	40.76	ppb	83
27) Quinoline	7.546	129	250053	47.76	ppb	99
28) Isophorone	6.343	82	251887	45.86	ppb	93

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2251.D  
 Acq On : 2 Nov 2010 10:46 am  
 Operator : ninap  
 Sample : op46301-bs1  
 Misc : op46301,e2p127,35.0,,,1,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 03 09:45:19 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	6.460	139	59790	38.57	ppb	72
30) 2,4-Dimethylphenol	6.648	107	117342	45.46	ppb	96
31) Benzoic acid	6.899	105	82160m	36.60	ppb	
32) bis(2-Chloroethoxy)met...	6.755	93	153257	44.40	ppb	99
33) 2,4-Dichlorophenol	6.862	162	91572	39.52	ppb	98
34) 2,6-Dichlorophenol	7.204	162	93273	39.56	ppb	98
36) 1,2,4-Trichlorobenzene	6.936	180	100392	39.62	ppb	98
38) Naphthalene	7.011	128	357946	40.29	ppb	99
39) 4-Chloroaniline	7.199	127	117038	30.83	ppb	93
40) 2,3-Dichloroaniline	8.621	161	113982	41.41	ppb	97
41) Caprolactam	7.707	113	41599	45.25	ppb	83
42) Hexachlorobutadiene	7.348	225	51218	40.24	ppb	98
43) 4-Chloro-3-methylphenol	8.070	107	109321	44.53	ppb	91
44) 2-Methylnaphthalene	8.097	142	256102	42.94	ppb	91
45) 1-Methylnaphthalene	8.258	142	228728	41.73	ppb	99
46) Dimethylnaphthalene	9.092	156	206700	43.05	ppb	98
48) Hexachlorocyclopentadiene	8.477	237	103899	101.25	ppb	99
49) 2,4,6-Trichlorophenol	8.643	196	65756	41.11	ppb	97
50) 2,4,5-Trichlorophenol	8.718	196	69269	43.16	ppb	98
52) 2-Chloronaphthalene	8.841	162	220515	42.27	ppb	99
53) Biphenyl	8.867	154	286724	42.80	ppb	97
54) 2-Nitroaniline	9.113	65	85228	49.57	ppb	81
55) Dimethylphthalate	9.509	163	263716	44.63	ppb	100
56) Acenaphthylene	9.488	152	352784	42.47	ppb	98
57) 2,6-Dinitrotoluene	9.579	165	57434	47.79	ppb	87
58) 3-Nitroaniline	9.782	138	55684	33.88	ppb	89
59) Acenaphthene	9.782	153	243022	44.57	ppb	98
60) 2,4-Dinitrophenol	9.942	184	53135	75.97	ppb	95
61) 4-Nitrophenol	10.215	109	36037m	42.62	ppb	
62) Dibenzofuran	10.044	168	320593	43.37	ppb	91
63) 2,4-Dinitrotoluene	10.183	165	76189	45.62	ppb	87
64) 2,3,4,6-Tetrachlorophenol	10.360	232	49589	38.65	ppb	93
65) Diethylphthalate	10.638	149	285727	46.55	ppb	97
66) Fluorene	10.579	166	268681	46.91	ppb	98
67) 4-Chlorophenyl-phenyle...	10.648	204	118373	44.13	ppb	97
68) 4-Nitroaniline	10.750	138	68892	45.12	ppb	92
70) 4,6-Dinitro-2-methylph...	10.809	198	39409	37.87	ppb	71
71) n-Nitrosodiphenylamine	10.862	169	192969	45.35	ppb	100
72) 1,2-Diphenylhydrazine	10.884	77	361635	51.89	ppb	90
74) 4-Bromophenyl-phenylether	11.397	248	62930	44.09	ppb	90
75) Hexachlorobenzene	11.574	284	65187	42.82	ppb	91
76) Pentachlorophenol	11.900	266	30848	29.82	ppb	99
77) Phenanthrene	12.060	178	378585	44.49	ppb	99
78) Anthracene	12.130	178	398222	46.52	ppb	100
79) Carbazole	12.456	167	362533	46.28	ppb	100
80) Di-n-butylphthalate	13.232	149	473130	48.86	ppb	99
81) Fluoranthene	13.895	202	381199	46.49	ppb	99
82) Octadecane	12.109	71	129239	53.84	ppb	85
84) Pyrene	14.195	202	404890	47.37	ppb	98
86) Butylbenzylphthalate	15.296	149	203446	50.34	ppb	92

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2251.D  
Acq On : 2 Nov 2010 10:46 am  
Operator : ninap  
Sample : op46301-bs1  
Misc : op46301,e2p127,35.0,,,1,1  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 03 09:45:19 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	15.821	228	323843	44.04	ppb	98
89) 3,3'-Dichlorobenzidine	15.869	252	114459	43.45	ppb	95
90) Chrysene	15.869	228	351638	48.00	ppb	99
91) bis(2-Ethylhexyl)phtha...	16.109	149	281309	50.28	ppb	95
93) Di-n-octylphthalate	16.837	149	450756	50.06	ppb	94
94) Benzo[b]fluoranthene	17.099	252	316396	47.71	ppb	95
95) Benzo[k]fluoranthene	17.126	252	352437	51.15	ppb	95
96) Benzo[a]pyrene	17.430	252	289629	48.70	ppb	98
97) Indeno[1,2,3-cd]pyrene	18.564	276	332530	47.56	ppb	96
99) Dibenz[a,h]anthracene	18.591	278	274091	47.67	ppb	99
100) 7,12-Dimethylbenz(a)an...	17.126	256	156284	61.65	ppb	97
101) Benzo[g,h,i]perylene	18.837	276	278502	47.07	ppb	99
103) Benzaldehyde	4.455	105	76604	40.86	ppb	97
105) Atrazine	11.820	215	32490	45.18	ppb #	81
107) Benzidine	14.189	184	85743	29.59	ppb	99
109) 1,2,4,5-Tetrachloroben...	8.429	216	81367	38.71	ppb	99

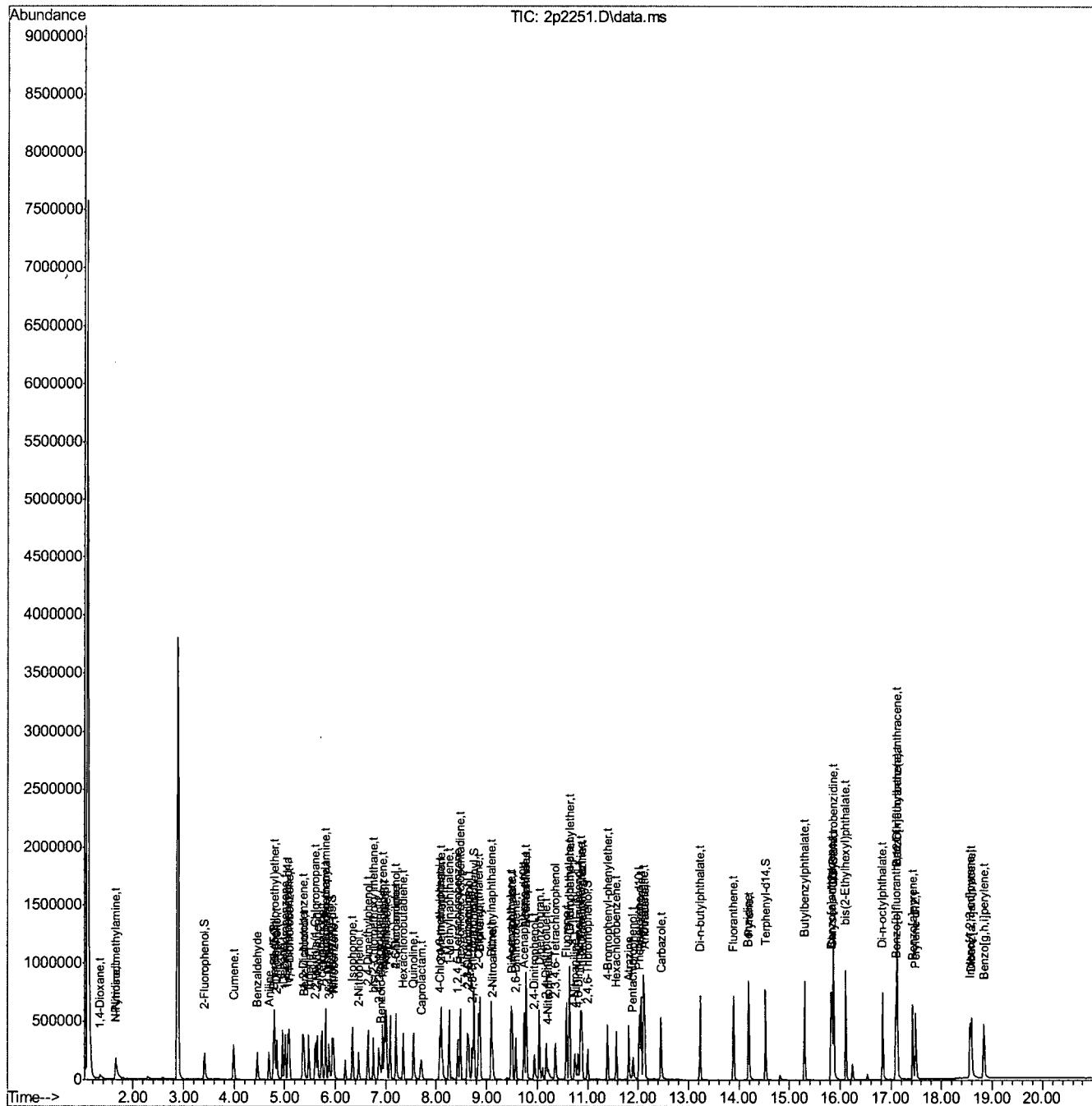
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.3.1  
8

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\2p127\  
Data File   : 2p2251.D  
Acq On      : 2 Nov 2010 10:46 am  
Operator    : ninap  
Sample      : op46301-bs1  
Misc        : op46301,e2p127,35.0,,,1,1  
ALS Vial    : 5 Sample Multiplier: 1
```

Quant Time: Nov 03 09:45:19 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



M2P117.M Wed Nov 03 09:45:31 2010 RPT1

Page: 4

### 8.3.1

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46301-BS1      **Method:** SW846 8270C  
**Lab FileID:** 2P2251.D      **Analyst approved:** 11/03/10 13:03 Krutika Patel  
**Injection Time:** 11/02/10 10:46      **Supervisor approved:** 11/03/10 14:22 Cheng-Hwan Ao

Parameter	CAS	Sig#	R. T. (min.)	Reason
Benzoic acid	65-85-0		6.90	Split peak
4-Nitrophenol	100-02-7		10.22	Split peak

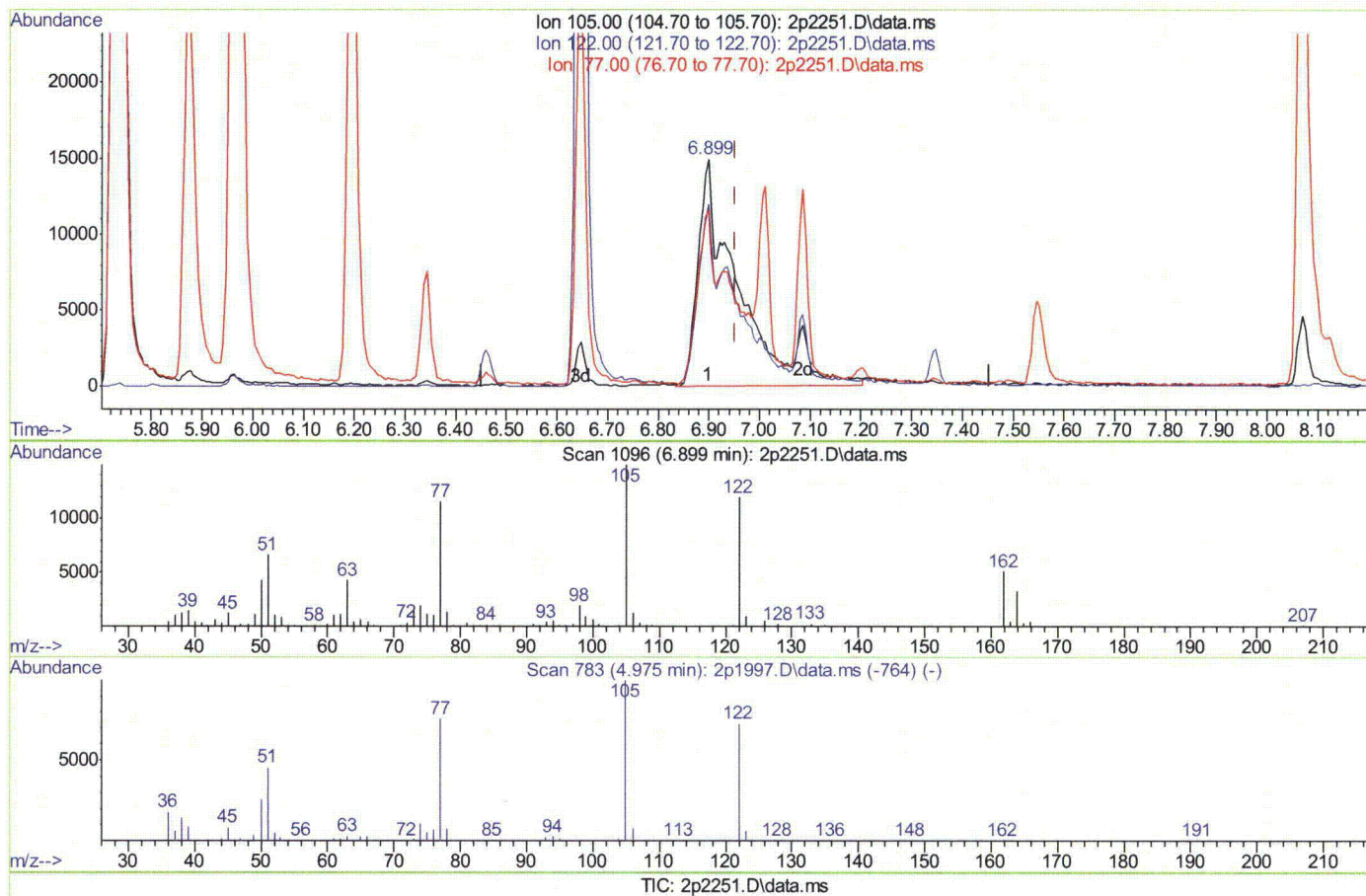
8.3.1.1

8

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2251.D  
Acq On : 2 Nov 2010 10:46 am  
Operator : ninap  
Sample : op46301-bs1  
Misc : op46301,e2p127,35.0,,,1,1  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 03 09:45:19 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



(31) Benzoic acid (t)

6.899min (-0.054) 36.60ppb m

response 82160

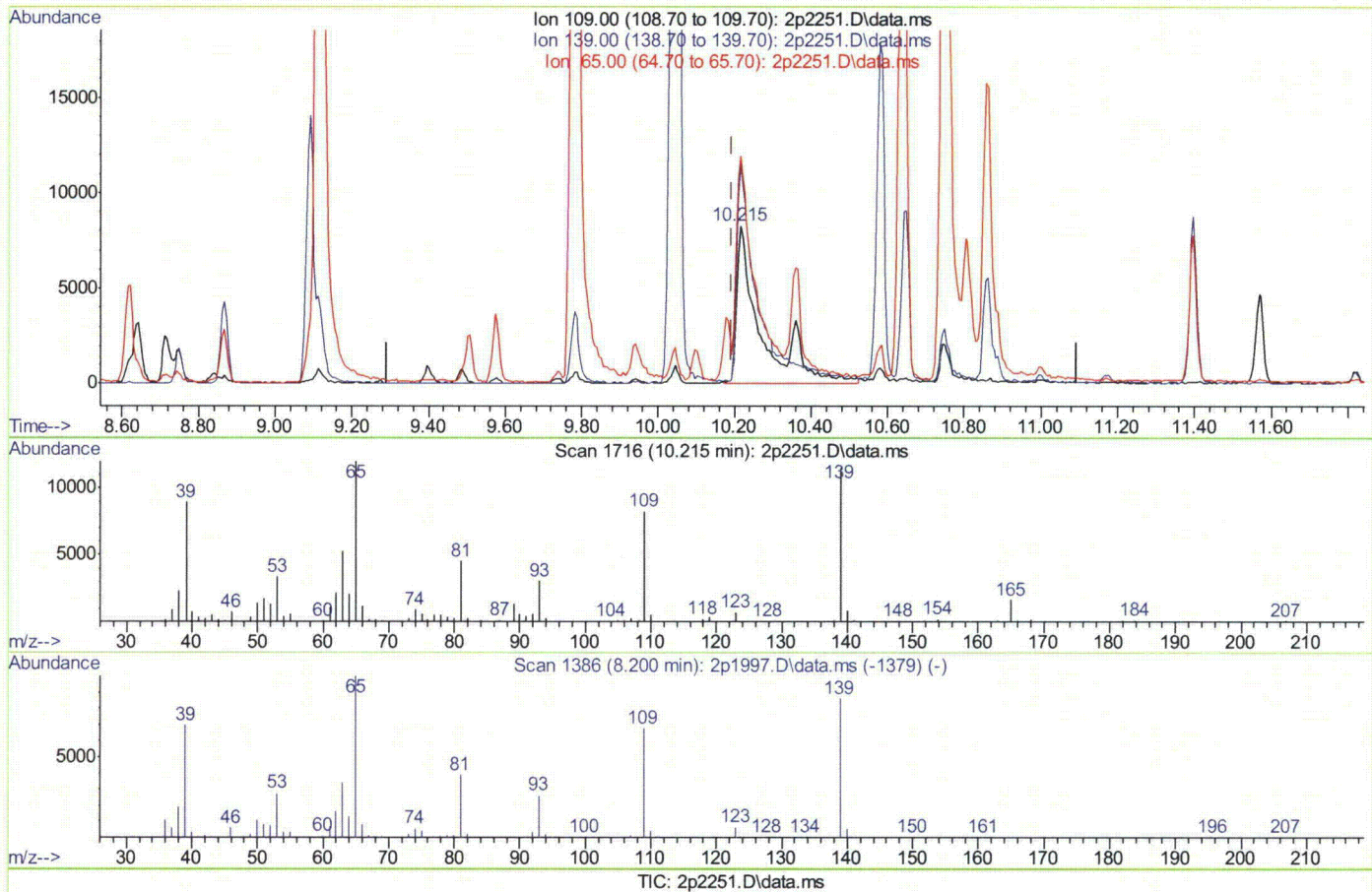
Ion	Exp%	Act%
105.00	100	100
122.00	80.60	80.18
77.00	75.50	77.41
0.00	0.00	0.00



## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2251.D  
Acq On : 2 Nov 2010 10:46 am  
Operator : ninap  
Sample : op46301-bs1  
Misc : op46301,e2p127,35.0,,,1,1  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 03 09:45:19 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



(61) 4-Nitrophenol (t)

10.215min (+0.021) 42.62ppb m

response 36037

Ion	Exp%	Act%
109.00	100	100
139.00	157.10	139.55
65.00	135.80	145.02
0.00	0.00	0.00



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2262.D  
 Acq On : 2 Nov 2010 4:25 pm  
 Operator : ninap  
 Sample : op46301-ms  
 Misc : op46301,e2p127,35.0,,,1,1  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 03 10:11:51 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.064	152	115929	40.00	ppb	-0.09
24) Naphthalene-d8	6.979	136	453058	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	257262	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	409351	40.00	ppb	-0.07
83) Chrysene-d12	15.837	240	406358	40.00	ppb	-0.06
92) Perylene-d12	17.495	264	320797	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.064	152	115929	40.00	ppb	-0.09
104) Acenaphthene-d10a	9.734	164	257262	40.00	ppb	-0.08
106) Chrysene-d12a	15.837	240	406358	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	257262	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.417	112	99745	26.55	ppb	-0.04
Spiked Amount 50.000			Recovery =	53.10%		
8) Phenol-d5	4.781	99	119743	24.10	ppb	-0.02
Spiked Amount 50.000			Recovery =	48.20%		
25) Nitrobenzene-d5	5.942	82	132751	28.86	ppb	-0.08
Spiked Amount 50.000			Recovery =	57.72%		
51) 2-Fluorobiphenyl	8.750	172	242915	27.77	ppb	-0.07
Spiked Amount 50.000			Recovery =	55.54%		
73) 2,4,6-Tribromophenol	11.001	330	24299	26.36	ppb	-0.06
Spiked Amount 50.000			Recovery =	52.72%		
85) Terphenyl-d14	14.526	244	218856	30.89	ppb	-0.06
Spiked Amount 50.000			Recovery =	61.78%		
Target Compounds						
2) 1,4-Dioxane	1.363	88	25087	17.99	ppb	Qvalue # 1
3) Pyridine	1.684	79	94725	22.48	ppb	93
4) N-Nitrosodimethylamine	1.663	74	61973	25.25	ppb	# 68
6) Indene	5.476	116	132732	23.81	ppb	97
7) Cumene	3.989	105	151823	20.01	ppb	97
9) Phenol	4.797	94	136920	26.13	ppb	63
10) Aniline	4.685	93	136953	26.17	ppb	89
11) bis(2-Chloroethyl)ether	4.797	93	108511	26.31	ppb	89
12) 2-Chlorophenol	4.845	128	103480	24.48	ppb	96
13) Decane	4.957	57	90541	22.35	ppb	93
14) 1,3-Dichlorobenzene	5.006	146	105611	23.53	ppb	98
15) 1,4-Dichlorobenzene	5.091	146	110866	24.19	ppb	100
16) Benzyl alcohol	5.380	108	66280	23.79	ppb	91
17) 1,2-Dichlorobenzene	5.359	146	104896	23.88	ppb	98
18) Acetophenone	5.733	105	140640	25.90	ppb	96
19) 2-Methylphenol	5.642	108	90900	24.91	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.605	121	35751	25.52	ppb	# 56
21) 3&4-Methylphenol	5.872	108	93117	23.82	ppb	96
22) n-Nitroso-di-n-propyla...	5.808	70	79312	27.75	ppb	85
23) Hexachloroethane	5.802	201	33223	23.73	ppb	92
26) Nitrobenzene	5.968	123	52791	24.81	ppb	82
27) Quinoline	7.546	129	202400	27.32	ppb	99
28) Isophorone	6.337	82	212236	27.31	ppb	93

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2262.D  
 Acq On : 2 Nov 2010 4:25 pm  
 Operator : ninap  
 Sample : op46301-ms  
 Misc : op46301,e2p127,35.0,,,1,1  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 03 10:11:51 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	6.460	139	48634	22.17	ppb	73
30) 2,4-Dimethylphenol	6.642	107	101235	27.72	ppb	97
31) Benzoic acid	6.915	105	40674m	12.80	ppb	
32) bis(2-Chloroethoxy)met...	6.755	93	129874	26.59	ppb	99
33) 2,4-Dichlorophenol	6.862	162	77478	23.63	ppb	95
34) 2,6-Dichlorophenol	7.204	162	78003	23.38	ppb	99
36) 1,2,4-Trichlorobenzene	6.936	180	85669	23.89	ppb	97
38) Naphthalene	7.006	128	306726	24.40	ppb	99
39) 4-Chloroaniline	7.198	127	124305	23.14	ppb	92
40) 2,3-Dichloroaniline	8.616	161	99536	25.56	ppb	97
41) Caprolactam	7.691	113	29491	22.67	ppb	87
42) Hexachlorobutadiene	7.348	225	43610	24.21	ppb	97
43) 4-Chloro-3-methylphenol	8.065	107	89257	25.69	ppb	92
44) 2-Methylnaphthalene	8.097	142	218559	25.89	ppb	97
45) 1-Methylnaphthalene	8.258	142	194543	25.09	ppb	98
46) Dimethylnaphthalene	9.092	156	175264	25.80	ppb	98
48) Hexachlorocyclopentadiene	8.477	237	71787	48.67	ppb	98
49) 2,4,6-Trichlorophenol	8.643	196	52282	22.74	ppb	99
50) 2,4,5-Trichlorophenol	8.712	196	57283	24.83	ppb	99
52) 2-Chloronaphthalene	8.841	162	187013	24.94	ppb	100
53) Biphenyl	8.867	154	240739	25.00	ppb	98
54) 2-Nitroaniline	9.119	65	68375	27.66	ppb	87
55) Dimethylphthalate	9.504	163	235752	27.76	ppb	99
56) Acenaphthylene	9.488	152	299730	25.10	ppb	99
57) 2,6-Dinitrotoluene	9.573	165	46907	27.16	ppb	85
58) 3-Nitroaniline	9.782	138	52972	22.42	ppb	86
59) Acenaphthene	9.782	153	204928	26.15	ppb	100
60) 2,4-Dinitrophenol	9.953	184	13650	24.97	ppb	82
61) 4-Nitrophenol	10.236	109	21872m	18.00	ppb	
62) Dibenzofuran	10.044	168	268780	25.30	ppb	90
63) 2,4-Dinitrotoluene	10.178	165	60120	25.04	ppb	80
64) 2,3,4,6-Tetrachlorophenol	10.360	232	38860	21.07	ppb	94
65) Diethylphthalate	10.632	149	233801	26.50	ppb	96
66) Fluorene	10.579	166	224579	27.28	ppb	99
67) 4-Chlorophenyl-phenyle...	10.643	204	97352	25.25	ppb	94
68) 4-Nitroaniline	10.750	138	51578	23.50	ppb	91
70) 4,6-Dinitro-2-methylph...	10.809	198	18077	15.01	ppb	93
71) n-Nitrosodiphenylamine	10.857	169	160159	26.17	ppb	98
72) 1,2-Diphenylhydrazine	10.884	77	295519	29.48	ppb	91
74) 4-Bromophenyl-phenylether	11.397	248	51283	24.98	ppb	93
75) Hexachlorobenzene	11.568	284	55373	25.29	ppb	89
76) Pentachlorophenol	11.905	266	22004	16.46	ppb	99
77) Phenanthrene	12.060	178	322047	26.31	ppb	99
78) Anthracene	12.130	178	330848	26.87	ppb	98
79) Carbazole	12.451	167	305767	27.14	ppb	99
80) Di-n-butylphthalate	13.226	149	395203	28.38	ppb	99
81) Fluoranthene	13.895	202	317856	26.96	ppb	98
82) Octadecane	12.109	71	109171	31.63	ppb	83
84) Pyrene	14.195	202	332629	26.65	ppb	98
86) Butylbenzylphthalate	15.296	149	150146	25.44	ppb	94

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2262.D  
 Acq On : 2 Nov 2010 4:25 pm  
 Operator : ninap  
 Sample : op46301-ms  
 Misc : op46301,e2p127,35.0,,,1,1  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 03 10:11:51 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	15.820	228	268761	25.03	ppb	99
89) 3,3'-Dichlorobenzidine	15.874	252	110208	28.65	ppb	98
90) Chrysene	15.869	228	287402	26.87	ppb	99
91) bis(2-Ethylhexyl)phtha...	16.109	149	210992	25.82	ppb	96
93) Di-n-octylphthalate	16.837	149	330734	25.71	ppb	94
94) Benzo[b]fluoranthene	17.099	252	241814	25.52	ppb	97
95) Benzo[k]fluoranthene	17.126	252	285274	28.98	ppb	93
96) Benzo[a]pyrene	17.430	252	228019	26.84	ppb	99
97) Indeno[1,2,3-cd]pyrene	18.564	276	230655	23.10	ppb	97
99) Dibenz[a,h]anthracene	18.596	278	191948	23.37	ppb	98
100) 7,12-Dimethylbenz(a)an...	17.126	256	123844	34.20	ppb	97
101) Benzo[g,h,i]perylene	18.842	276	190556	22.54	ppb	98
103) Benzaldehyde	4.455	105	70251	26.87	ppb	95
105) Atrazine	11.820	215	26985	26.79	ppb #	82
107) Benzidine	14.211	184	42819	10.12	ppb	99
109) 1,2,4,5-Tetrachloroben...	8.423	216	70496	23.33	ppb	99

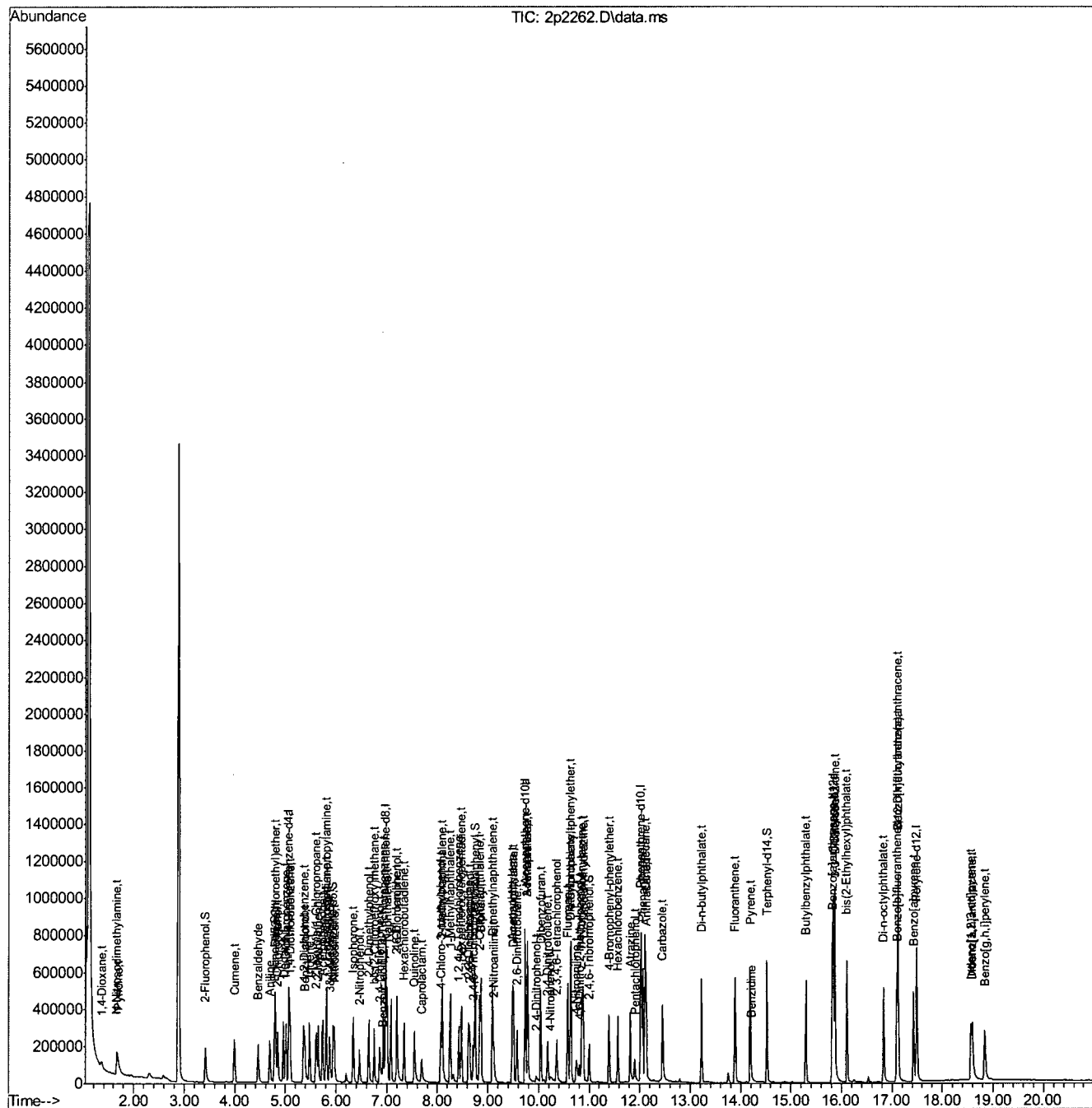
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.4.1  
8

Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\2p127\  
Data File   : 2p2262.D  
Acq On      : 2 Nov 2010    4:25 pm  
Operator    : ninap  
Sample      : op46301-ms  
Misc        : op46301,e2p127,35.0,,,1,1  
ALS Vial    : 16    Sample Multiplier: 1
```

Quant Time: Nov 03 10:11:51 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



M2P117.M Wed Nov 03 10:12:04 2010 RPT1

Page: 4

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46301-MS      **Method:** SW846 8270C  
**Lab FileID:** 2P2262.D      **Analyst approved:** 11/03/10 13:03 Krutika Patel  
**Injection Time:** 11/02/10 16:25      **Supervisor approved:** 11/03/10 14:37 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.92	Split peak
4-Nitrophenol	100-02-7		10.24	Split peak

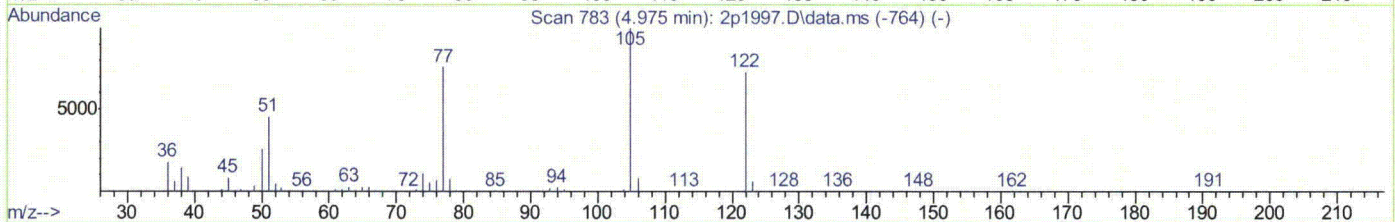
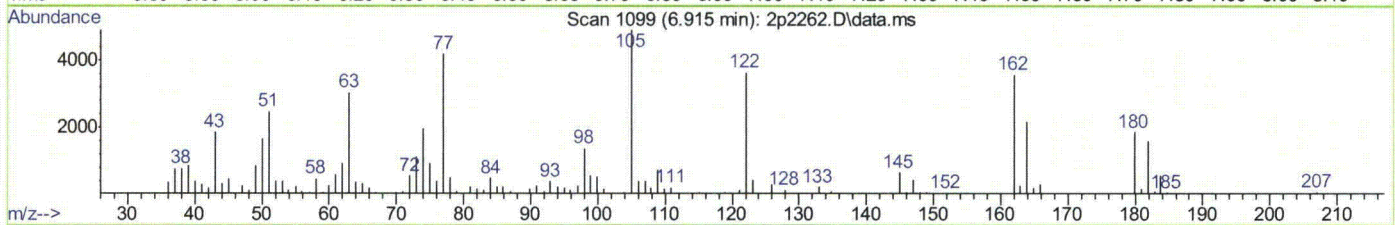
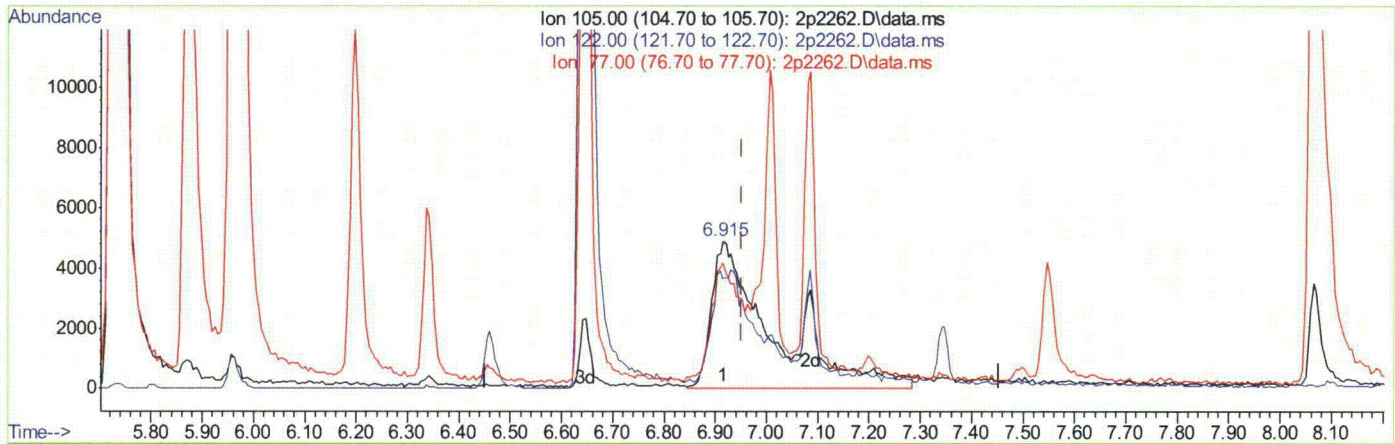
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8

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2262.D  
Acq On : 2 Nov 2010 4:25 pm  
Operator : ninap  
Sample : op46301-ms  
Misc : op46301,e2p127,35.0,,,1,1  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 03 10:07:04 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



TIC: 2p2262.D\data.ms

(31) Benzoic acid (t)

6.915min (-0.038) 12.80ppb m

response 40674

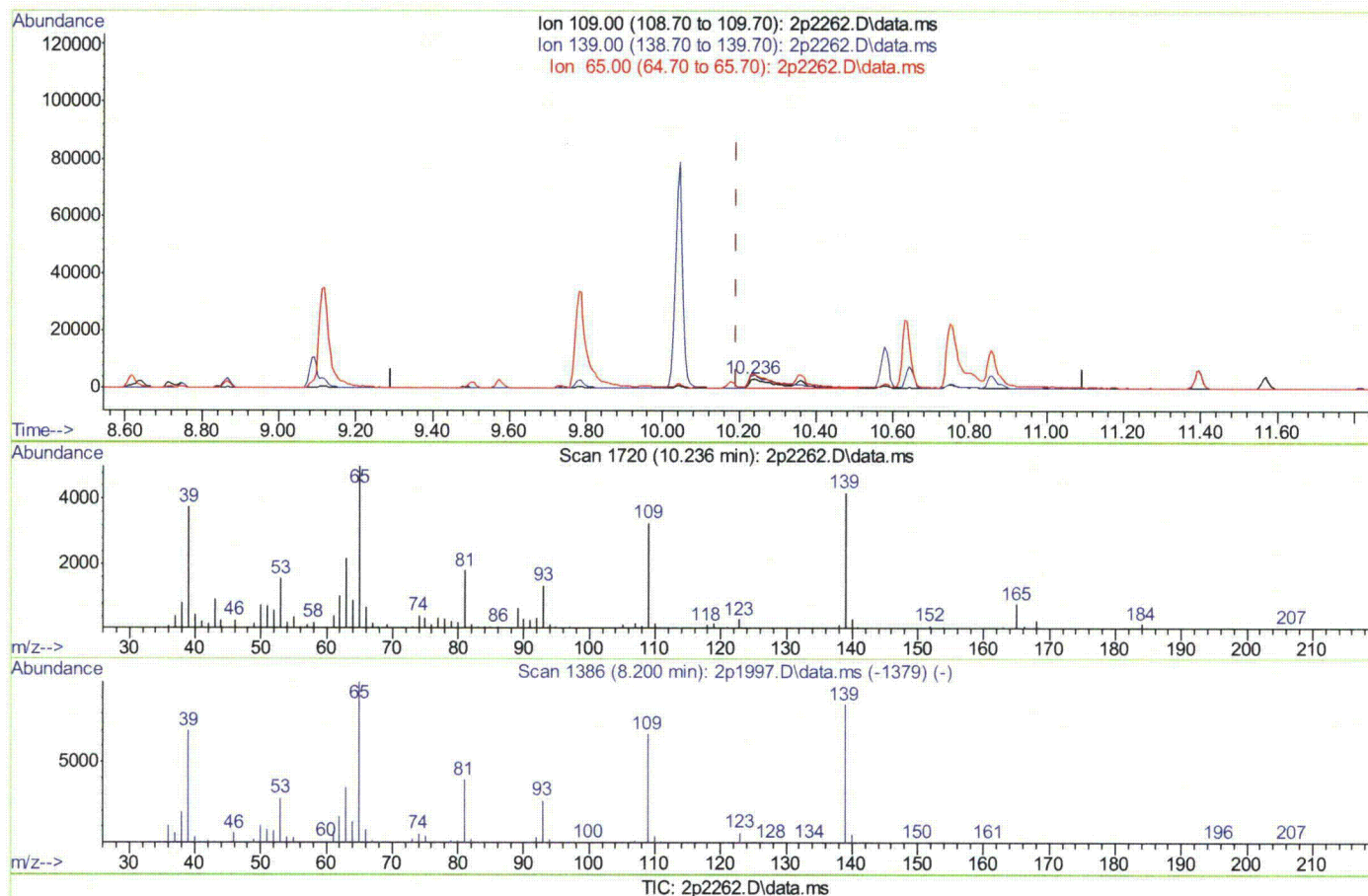
Ion	Exp%	Act%
105.00	100	100
122.00	80.60	74.46
77.00	75.50	85.45
0.00	0.00	0.00

8.4.1.2  
8

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2262.D  
Acq On : 2 Nov 2010 4:25 pm  
Operator : ninap  
Sample : op46301-ms  
Misc : op46301,e2p127,35.0,,,1,1  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 03 10:07:04 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



(61) 4-Nitrophenol (t)

10.236min (+0.042) 18.00ppb m

response 21872

Ion	Exp%	Act%
109.00	100	100
139.00	157.10	127.37
65.00	135.80	152.06
0.00	0.00	0.00



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2263.D  
 Acq On : 2 Nov 2010 4:50 pm  
 Operator : ninap  
 Sample : op46301-msd  
 Misc : op46301,e2p127,35.0,,,1,1  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 03 10:11:06 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.064	152	112732	40.00	ppb	-0.09
24) Naphthalene-d8	6.979	136	447627	40.00	ppb	-0.09
47) Acenaphthene-d10	9.734	164	253702	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	404574	40.00	ppb	-0.07
83) Chrysene-d12	15.837	240	406872	40.00	ppb	-0.06
92) Perylene-d12	17.489	264	324738	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.064	152	112732	40.00	ppb	-0.09
104) Acenaphthene-d10a	9.734	164	253702	40.00	ppb	-0.08
106) Chrysene-d12a	15.837	240	406872	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.734	164	253702	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	3.422	112	85644	23.44	ppb	-0.03
Spiked Amount 50.000			Recovery	=	46.88%	
8) Phenol-d5	4.781	99	103888	21.50	ppb	-0.02
Spiked Amount 50.000			Recovery	=	43.00%	
25) Nitrobenzene-d5	5.942	82	119398	26.27	ppb	-0.08
Spiked Amount 50.000			Recovery	=	52.54%	
51) 2-Fluorobiphenyl	8.750	172	219978	25.50	ppb	-0.07
Spiked Amount 50.000			Recovery	=	51.00%	
73) 2,4,6-Tribromophenol	11.001	330	21930	24.07	ppb	-0.06
Spiked Amount 50.000			Recovery	=	48.14%	
85) Terphenyl-d14	14.526	244	204887	28.88	ppb	-0.06
Spiked Amount 50.000			Recovery	=	57.76%	
Target Compounds						
2) 1,4-Dioxane	1.369	88	20818	15.35	ppb	Qvalue 83
3) Pyridine	1.689	79	81930	20.00	ppb	94
4) N-Nitrosodimethylamine	1.663	74	55470	23.24	ppb	# 69
6) Indene	5.476	116	115202	21.25	ppb	96
7) Cumene	3.995	105	130312	17.66	ppb	97
9) Phenol	4.797	94	118880	23.33	ppb	61
10) Aniline	4.690	93	125381	24.64	ppb	89
11) bis(2-Chloroethyl)ether	4.797	93	95494	23.81	ppb	89
12) 2-Chlorophenol	4.845	128	91147	22.17	ppb	93
13) Decane	4.957	57	73665	18.70	ppb	90
14) 1,3-Dichlorobenzene	5.006	146	93147	21.34	ppb	98
15) 1,4-Dichlorobenzene	5.091	146	97165	21.80	ppb	98
16) Benzyl alcohol	5.380	108	59138	21.83	ppb	99
17) 1,2-Dichlorobenzene	5.359	146	92359	21.62	ppb	99
18) Acetophenone	5.733	105	124113	23.50	ppb	96
19) 2-Methylphenol	5.642	108	81551	22.99	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.605	121	30930	22.71	ppb	# 50
21) 3&4-Methylphenol	5.877	108	83800	22.04	ppb	98
22) n-Nitroso-di-n-propyla...	5.813	70	70735	25.45	ppb	87
23) Hexachloroethane	5.803	201	28509	20.94	ppb	88
26) Nitrobenzene	5.968	123	46551	22.14	ppb	# 77
27) Quinoline	7.552	129	181954	24.86	ppb	99
28) Isophorone	6.337	82	192557	25.08	ppb	92



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2263.D  
 Acq On : 2 Nov 2010 4:50 pm  
 Operator : ninap  
 Sample : op46301-msd  
 Misc : op46301,e2p127,35.0,,,1,1  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 03 10:11:06 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
29) 2-Nitrophenol	6.460	139	43156	19.91	ppb	69
30) 2,4-Dimethylphenol	6.648	107	90275	25.02	ppb	99
31) Benzoic acid	6.910	105	40043m	12.76	ppb	
32) bis(2-Chloroethoxy)met...	6.755	93	117453	24.34	ppb	99
33) 2,4-Dichlorophenol	6.867	162	68756	21.22	ppb	97
34) 2,6-Dichlorophenol	7.204	162	72394	21.96	ppb	99
36) 1,2,4-Trichlorobenzene	6.936	180	76006	21.45	ppb	98
38) Naphthalene	7.006	128	274545	22.10	ppb	99
39) 4-Chloroaniline	7.199	127	117956	22.23	ppb	93
40) 2,3-Dichloroaniline	8.616	161	91032	23.66	ppb	97
41) Caprolactam	7.696	113	28048	21.82	ppb	84
42) Hexachlorobutadiene	7.343	225	38203	21.47	ppb	99
43) 4-Chloro-3-methylphenol	8.065	107	81827	23.84	ppb	91
44) 2-Methylnaphthalene	8.097	142	198456	23.80	ppb	98
45) 1-Methylnaphthalene	8.258	142	176395	23.02	ppb	99
46) Dimethylnaphthalene	9.092	156	159578	23.77	ppb	97
48) Hexachlorocyclopentadiene	8.477	237	61198	42.07	ppb	98
49) 2,4,6-Trichlorophenol	8.637	196	49211	21.70	ppb	98
50) 2,4,5-Trichlorophenol	8.718	196	51514	22.65	ppb	96
52) 2-Chloronaphthalene	8.841	162	174373	23.58	ppb	99
53) Biphenyl	8.867	154	220744	23.25	ppb	98
54) 2-Nitroaniline	9.113	65	64472	26.45	ppb	80
55) Dimethylphthalate	9.504	163	208058	24.84	ppb	100
56) Acenaphthylene	9.482	152	273977	23.27	ppb	98
57) 2,6-Dinitrotoluene	9.573	165	42979	25.23	ppb	85
58) 3-Nitroaniline	9.787	138	48279	20.72	ppb	94
59) Acenaphthene	9.782	153	186153	24.09	ppb	100
60) 2,4-Dinitrophenol	9.958	184	9403	21.62	ppb	87
61) 4-Nitrophenol	10.253	109	21859m	18.24	ppb	
62) Dibenzofuran	10.044	168	251346	23.99	ppb	91
63) 2,4-Dinitrotoluene	10.178	165	54177	22.89	ppb	78
64) 2,3,4,6-Tetrachlorophenol	10.360	232	35551	19.55	ppb	93
65) Diethylphthalate	10.632	149	218839	25.15	ppb	95
66) Fluorene	10.579	166	204547	25.20	ppb	98
67) 4-Chlorophenyl-phenyle...	10.643	204	90087	23.69	ppb	95
68) 4-Nitroaniline	10.755	138	48718	22.51	ppb	95
70) 4,6-Dinitro-2-methylph...	10.809	198	13708	12.52	ppb	94
71) n-Nitrosodiphenylamine	10.857	169	149552	24.73	ppb	98
72) 1,2-Diphenylhydrazine	10.884	77	276658	27.93	ppb	91
74) 4-Bromophenyl-phenylether	11.397	248	48395	23.85	ppb	93
75) Hexachlorobenzene	11.568	284	51294	23.71	ppb	88
76) Pentachlorophenol	11.900	266	21514	16.32	ppb	97
77) Phenanthrene	12.060	178	301572	24.93	ppb	98
78) Anthracene	12.130	178	311170	25.57	ppb	98
79) Carbazole	12.451	167	285622	25.66	ppb	99
80) Di-n-butylphthalate	13.227	149	364826	26.51	ppb	99
81) Fluoranthene	13.895	202	296262	25.42	ppb	98
82) Octadecane	12.109	71	97529	28.59	ppb	83
84) Pyrene	14.195	202	314243	25.15	ppb	98
86) Butylbenzylphthalate	15.291	149	130564	22.09	ppb	87

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2263.D  
Acq On : 2 Nov 2010 4:50 pm  
Operator : ninap  
Sample : op46301-msd  
Misc : op46301,e2p127,35.0,,,1,1  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 03 10:11:06 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration

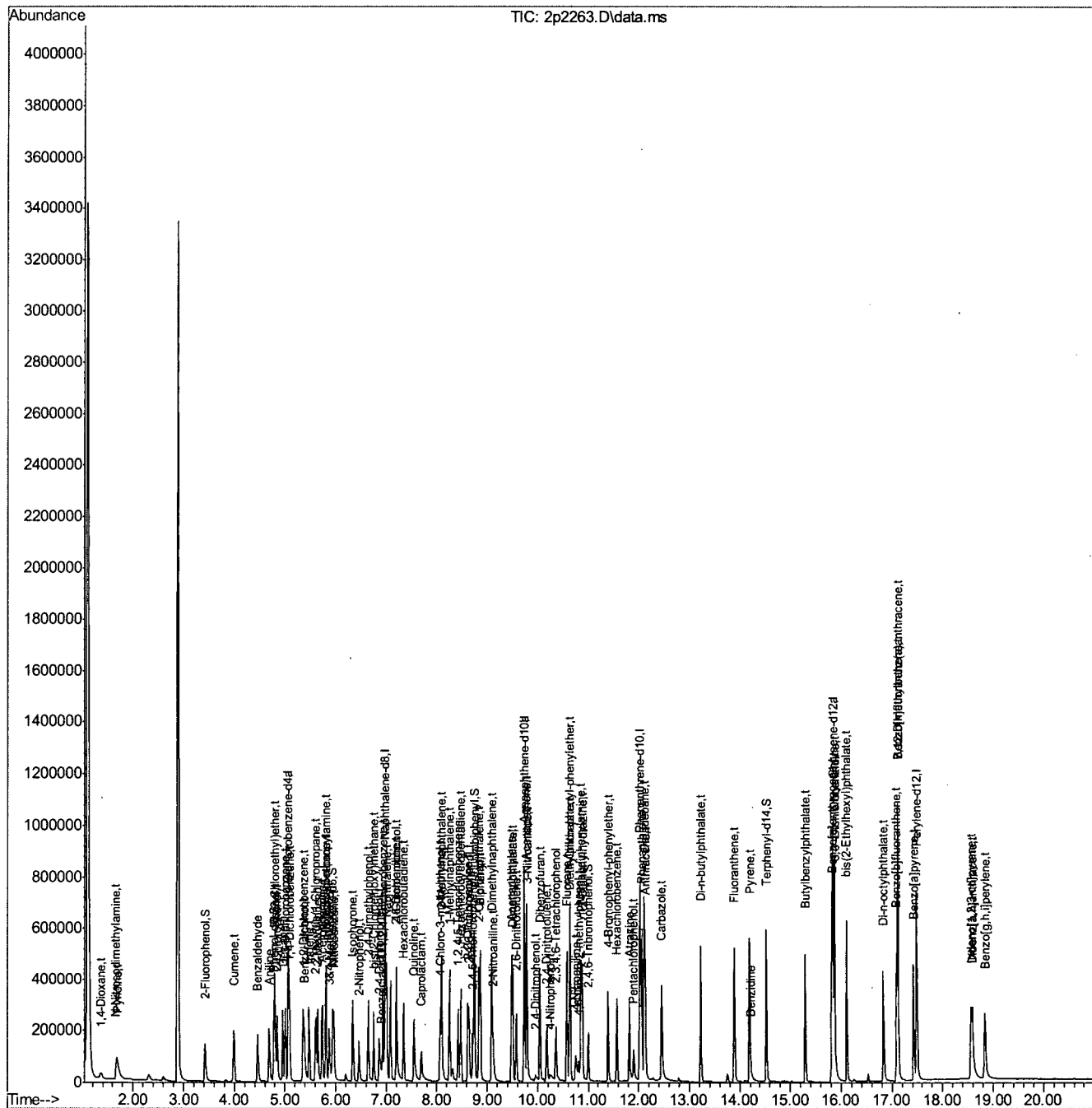
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	15.821	228	251007	23.35	ppb	99
89) 3,3'-Dichlorobenzidine	15.874	252	106836	27.74	ppb	96
90) Chrysene	15.869	228	275438	25.72	ppb	98
91) bis(2-Ethylhexyl)phtha...	16.109	149	191561	23.42	ppb	96
93) Di-n-octylphthalate	16.831	149	285039	21.89	ppb	93
94) Benzo[b]fluoranthene	17.094	252	239241	24.95	ppb	100
95) Benzo[k]fluoranthene	17.120	252	258066	25.90	ppb	93
96) Benzo[a]pyrene	17.431	252	215982	25.11	ppb	98
97) Indeno[1,2,3-cd]pyrene	18.564	276	219994	21.76	ppb	98
99) Dibenz[a,h]anthracene	18.591	278	183808	22.11	ppb	99
100) 7,12-Dimethylbenz(a)an...	17.120	256	114631	31.27	ppb	97
101) Benzo[g,h,i]perylene	18.837	276	184200	21.53	ppb	99
103) Benzaldehyde	4.460	105	62249	24.49	ppb	96
105) Atrazine	11.820	215	24045	24.36	ppb #	82
107) Benzidine	14.216	184	49887	11.77	ppb	99
109) 1,2,4,5-Tetrachloroben...	8.423	216	64027	21.49	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2263.D  
Acq On : 2 Nov 2010 4:50 pm  
Operator : ninap  
Sample : op46301-msd  
Misc : op46301,e2p127,35.0,,,1,1  
ALS Vial : 17 Sample Multiplier: 1
```

Quant Time: Nov 03 10:11:06 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



M2P117.M Wed Nov 03 10:11:28 2010 RPT1

Page: 4

## 8.4.2

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** OP46301-MSD      **Method:** SW846 8270C  
**Lab FileID:** 2P2263.D      **Analyst approved:** 11/03/10 13:03 Krutika Patel  
**Injection Time:** 11/02/10 16:50      **Supervisor approved:** 11/03/10 14:37 Cheng-Hwan Ao

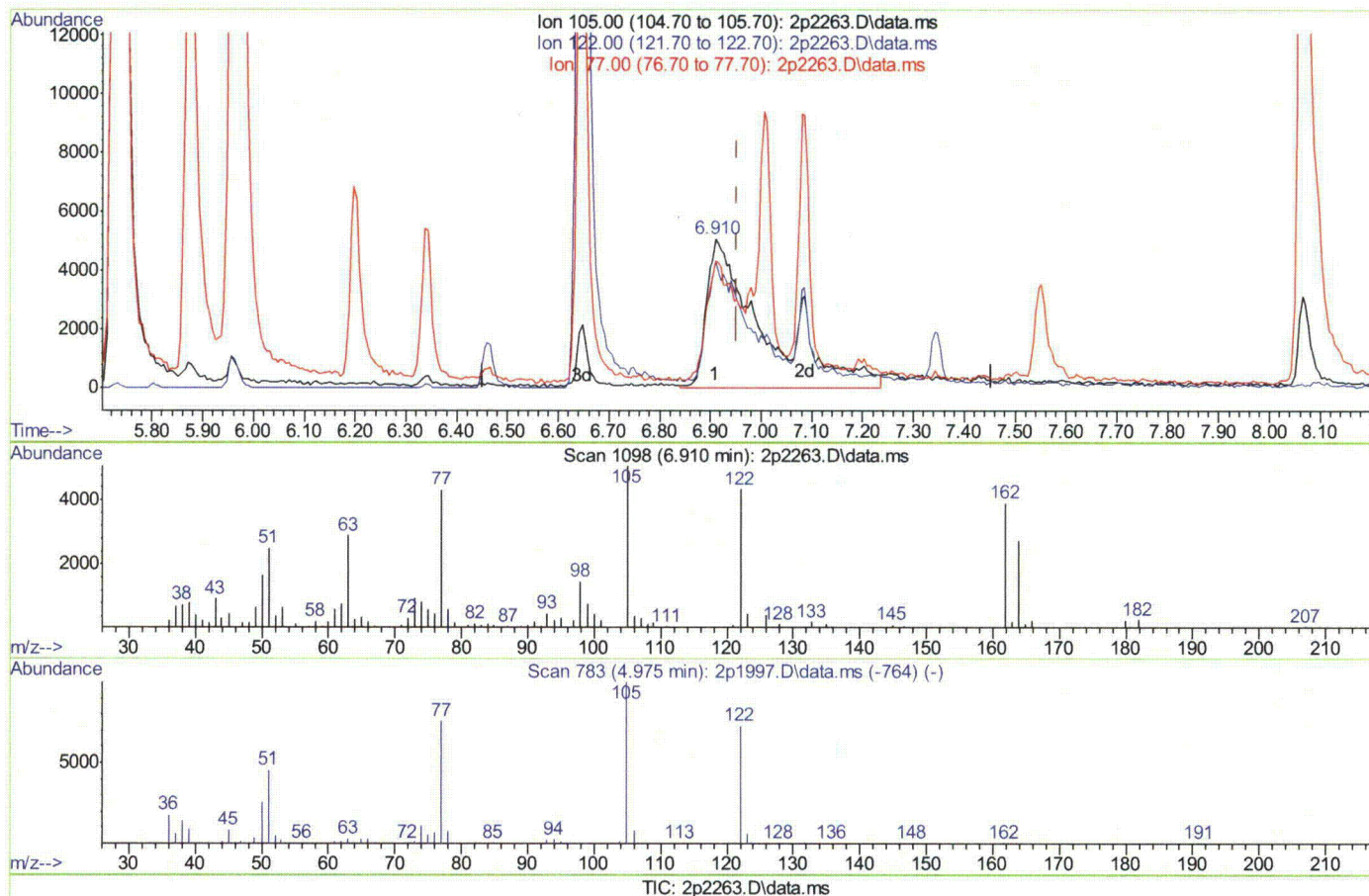
Parameter	CAS	Sig#	R. T. (min.)	Reason
Benzoic acid	65-85-0		6.91	Split peak
4-Nitrophenol	100-02-7		10.25	Split peak

8.4.2.1  
8

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2263.D  
Acq On : 2 Nov 2010 4:50 pm  
Operator : ninap  
Sample : op46301-msd  
Misc : op46301,e2p127,35.0,,,1,1  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 03 10:09:28 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



(31) Benzoic acid (t)

6.910min (-0.043) 12.76ppb m

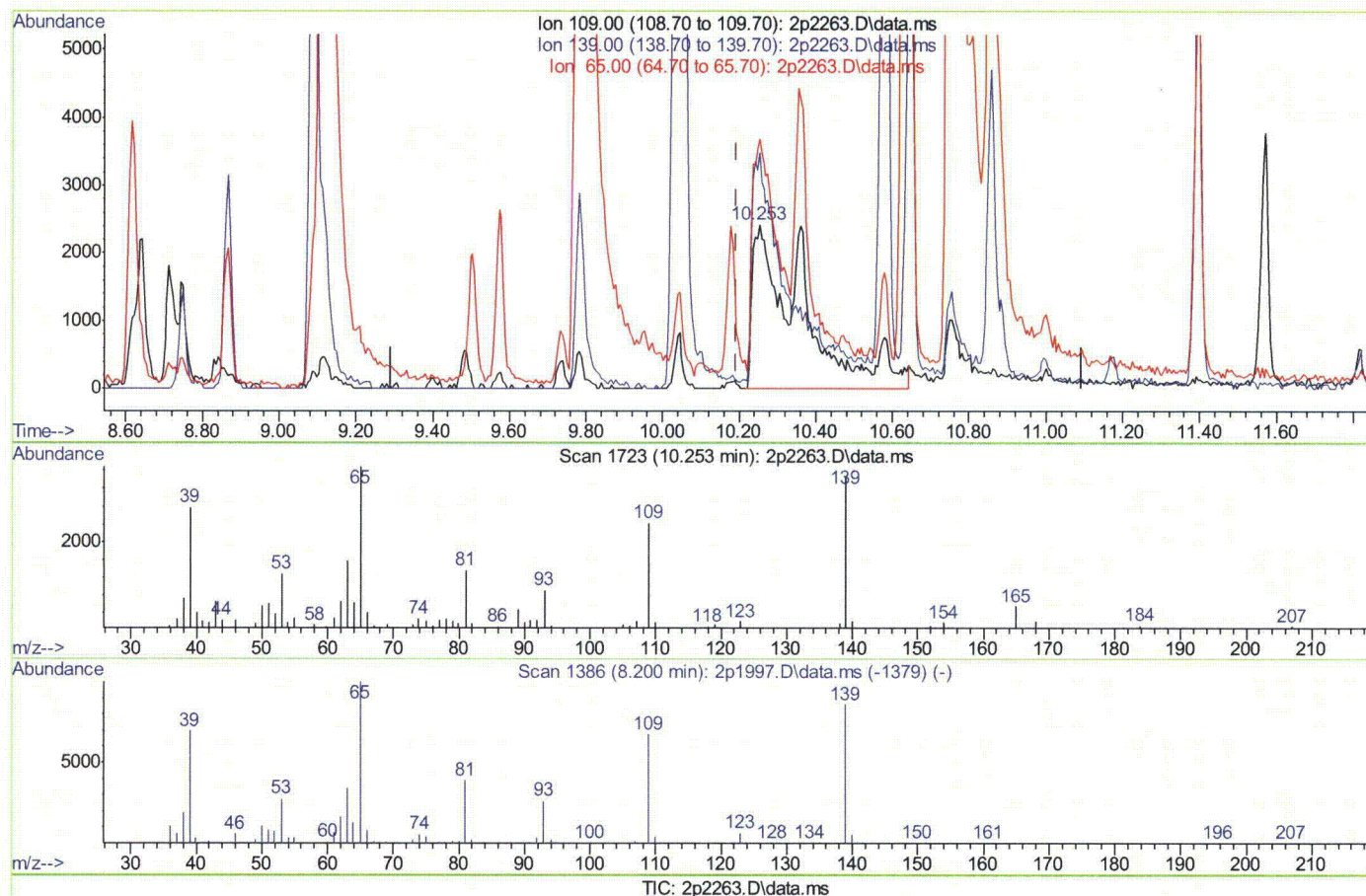
response 40043

Ion	Exp%	Act%
105.00	100	100
122.00	80.60	85.58
77.00	75.50	85.36
0.00	0.00	0.00

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2263.D  
Acq On : 2 Nov 2010 4:50 pm  
Operator : ninap  
Sample : op46301-msd  
Misc : op46301,e2p127,35.0,,,1,1  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 03 10:09:28 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



(61) 4-Nitrophenol (t)

10.253min (+0.059) 18.24ppb m

response 21859

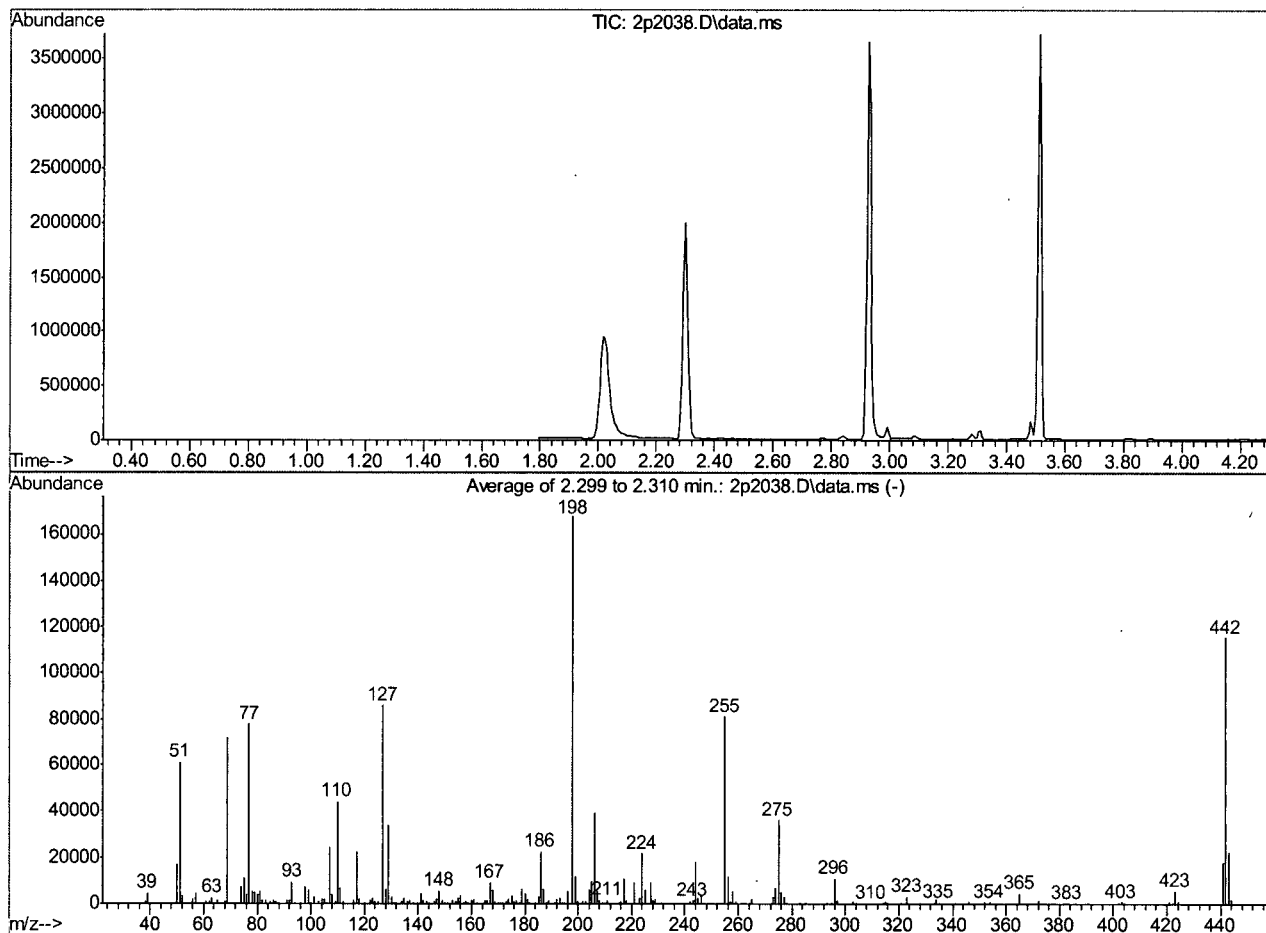
Ion	Exp%	Act%
109.00	100	100
139.00	157.10	143.93
65.00	135.80	152.11
0.00	0.00	0.00

## DFTPP

Data File : C:\msdchem\1\DATA\2p117\2p2038.D  
 Acq On : 21 Oct 2010 10:09 am  
 Sample : dftpp  
 Misc : op45931,e2p117,1000,,,1,1  
 MS Integration Params: events.e

Vial: 1  
 Operator: kristis  
 Inst : MS2P  
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)  
 Title :



AutoFind: Scans 87, 88, 89; Background Corrected with Scan 81

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.4	61130	PASS
68	69	0.00	2	1.6	1184	PASS
69	198	0.00	100	43.0	72096	PASS
70	69	0.00	2	0.4	301	PASS
127	198	40	60	51.3	86099	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	167824	PASS
199	198	5	9	6.9	11578	PASS
275	198	10	30	21.6	36285	PASS
365	198	1	100	2.6	4414	PASS
441	443	0.01	100	80.8	17964	PASS
442	198	40	100	68.9	115573	PASS
443	442	17	23	19.2	22233	PASS

2p2038.D DFTPP2P.M Thu Oct 21 21:27:14 2010 RPT1



Average of 2.299 to 2.310 min.: 2p2038.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	36	52.05	3198	63.00	2600	75.00	11028
37.00	221	52.95	196	64.00	361	76.05	3844
38.00	808	54.00	112	65.05	1333	77.00	77737
39.05	4449	55.00	405	66.00	133	78.00	5505
40.00	187	55.95	1920	67.00	231	79.00	5078
41.00	59	57.00	4384	68.00	1184	80.00	4012
43.00	36	58.00	292	69.00	72096	81.00	5552
44.95	66	59.00	121	70.00	301	82.00	1538
49.00	358	59.95	9	70.95	85	83.00	1287
50.00	17027	61.00	802	72.95	524	83.90	12
51.05	61130	62.00	997	74.00	7077	85.00	870

Average of 2.299 to 2.310 min.: 2p2038.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.95	1543	98.00	7260	109.00	758	121.05	124
87.00	814	99.00	5803	110.00	44267	122.00	1657
87.95	413	100.00	535	111.00	6812	123.00	2403
88.95	155	101.00	3121	112.00	922	124.00	1122
91.00	1315	101.95	187	113.00	253	125.00	1061
92.00	1458	103.00	1159	115.00	178	125.90	95
93.00	9275	104.00	1907	116.00	1303	127.00	86099
93.95	715	105.00	1903	117.00	22172	128.00	6337
94.90	51	106.00	687	118.00	1785	129.00	33743
96.00	601	107.00	24167	119.00	178	130.00	3133
97.00	190	108.00	3738	120.00	327	130.95	612

Average of 2.299 to 2.310 min.: 2p2038.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
132.00	313	143.00	881	152.95	1363	163.95	210
132.90	243	144.00	276	154.00	1002	164.95	1434
134.00	966	145.05	172	155.00	2374	166.00	1256
135.00	2473	146.00	795	156.00	3292	166.95	9081
136.00	1097	147.00	2072	157.00	719	168.00	5668
137.00	1587	148.00	5496	157.95	845	169.00	883
138.00	268	149.00	1248	158.95	584	169.95	267
139.00	162	149.95	294	160.00	1256	170.95	280
140.00	457	151.05	603	161.00	1954	171.95	719
141.00	4211	151.70	114	161.95	576	173.00	1008
142.00	1422	151.90	61	162.95	144	174.00	1739

Average of 2.299 to 2.310 min.: 2p2038.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	3333	186.00	22368	198.00	167824	210.10	666
176.00	1048	187.00	6158	199.00	11578	211.00	1660
176.95	1548	188.00	642	200.00	884	212.95	129
177.95	456	188.95	1396	201.50	871	214.95	490
179.00	6113	189.95	182	203.00	1148	216.00	939
180.00	4211	191.00	684	204.00	5912	217.00	10755
181.00	2045	192.00	2113	205.00	9621	218.00	1449
182.00	351	193.00	2285	206.00	39453	219.00	137
182.90	85	194.00	463	207.00	5136	221.00	9210
183.95	533	194.95	305	208.00	1420	223.00	2353
185.00	3026	196.00	5241	209.00	541	224.00	21652

Average of 2.299 to 2.310 min.: 2p2038.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.00	5592	236.00	499	246.90	737	257.00	881
226.05	634	237.00	730	247.90	121	258.00	5236
227.00	9138	237.90	50	248.10	59	259.00	789
228.00	1294	238.95	363	249.00	562	260.00	63



229.00	1821	240.00	221	250.00	68	260.90	52
230.00	280	240.95	466	250.90	132	263.85	122
231.00	734	242.00	1201	251.80	86	264.95	2024
232.00	128	243.05	1408	252.10	60	265.80	182
232.95	133	244.05	17795	253.00	455	267.00	52
233.95	580	245.00	2421	255.00	81173	267.90	94
235.00	645	246.00	3464	256.00	11791	269.95	110

Average of 2.299 to 2.310 min.: 2p2038.D\data.ms  
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
271.00	173	285.00	467	304.00	319	327.95	307
271.95	235	285.90	55	309.95	124	332.00	243
273.00	2737	291.95	117	314.10	491	332.95	322
274.00	6957	292.95	706	315.00	1112	334.00	1990
275.00	36285	294.00	226	316.00	652	335.00	532
276.00	4819	295.00	277	317.00	105	341.00	408
277.00	3129	296.00	10860	320.95	302	345.95	817
278.00	588	297.00	1446	322.00	138	352.00	894
278.90	67	300.90	127	323.05	3080	353.00	610
283.00	450	301.85	136	324.00	531	354.00	945
283.95	161	303.00	1101	326.90	640	354.90	148

Average of 2.299 to 2.310 min.: 2p2038.D\data.ms  
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
365.00	4414	403.00	889	443.00	22233		
365.95	698	404.00	317	444.05	2046		
370.95	196	421.00	890	445.00	57		
372.00	1502	422.00	712				
372.95	396	423.00	5462				
383.00	412	424.00	1105				
383.95	142	425.00	66				
389.95	136	439.30	122				
391.00	51	439.80	65				
400.80	50	441.05	17964				
401.95	685	442.00	115573				

DFTPP

Data File : C:\msdchem\1\DATA\2p118\2p2047.D

Acq On : 21 Oct 2010 3:07 pm

Sample : dftpp

Misc : op45931,e2p118,1000,,,1,1

MS Integration Params: events.e

Vial: 1

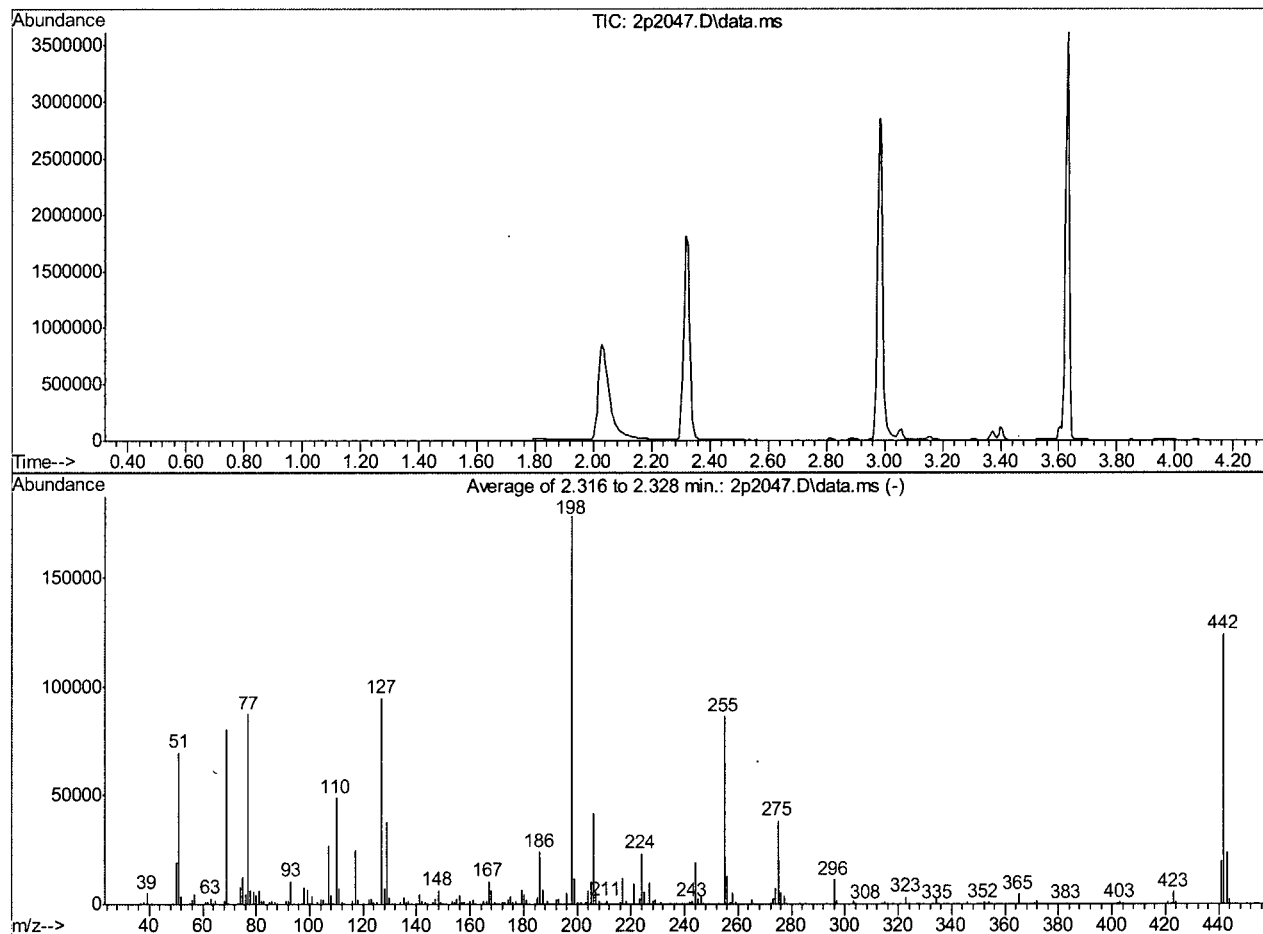
Operator: kristis

Inst : MS2P

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)

Title :



AutoFind: Scans 90, 91, 92; Background Corrected with Scan 84

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	30	60	39.0	69483	PASS
68	69	0.00	2	1.6	1315	PASS
69	198	0.00	100	45.1	80392	PASS
70	69	0.00	2	0.7	543	PASS
127	198	40	60	53.2	94805	PASS
197	198	0.00	1	0.2	345	PASS
198	198	100	100	100.0	178328	PASS
199	198	5	9	6.6	11819	PASS
275	198	10	30	21.4	38248	PASS
365	198	1	100	2.6	4551	PASS
441	443	0.01	100	83.7	19807	PASS
442	198	40	100	69.5	123992	PASS
443	442	17	23	19.1	23675	PASS

Average of 2.316 to 2.328 min.: 2p2047.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.95	290	51.05	69483	63.95	391	76.10	4603
37.95	805	52.00	3516	65.00	1393	77.05	87373
39.05	5068	53.05	148	66.00	127	78.00	6065
40.00	235	55.00	526	66.90	54	79.00	5477
41.05	329	56.00	2208	68.05	1315	80.00	4360
41.95	113	57.00	4877	69.00	80392	81.00	6111
43.95	12	58.00	219	70.00	543	82.00	1550
45.00	232	60.00	133	71.00	75	83.00	1517
47.95	117	61.00	932	73.00	724	83.90	248
49.00	634	62.00	1125	74.00	7968	85.00	1074
50.05	19010	63.00	2837	75.00	12518	85.95	1639

Average of 2.316 to 2.328 min.: 2p2047.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	839	99.00	6601	110.00	48669	122.00	1830
87.95	424	99.95	615	111.00	7456	123.00	2702
88.95	145	101.00	3439	111.95	971	123.90	1301
91.00	1356	102.00	275	113.00	304	125.00	1188
92.00	1564	103.00	1126	114.95	109	127.00	94805
93.00	10312	104.00	2106	116.00	1420	128.00	7019
94.00	791	105.00	2143	117.00	24723	129.00	37699
94.90	146	106.05	681	118.00	1845	129.95	3106
96.00	582	107.00	26656	119.00	235	130.95	649
96.95	288	108.00	4349	119.95	364	131.95	427
98.00	7832	108.90	789	121.00	59	132.85	227

Average of 2.316 to 2.328 min.: 2p2047.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
134.00	1007	144.90	242	156.00	3886	166.95	10292
135.00	2865	146.00	940	157.00	798	168.00	6301
136.00	1224	147.00	2351	158.00	847	169.00	998
137.00	1722	148.00	6183	159.00	681	169.95	345
137.95	350	149.00	1156	160.00	1320	170.90	389
139.00	135	150.00	417	161.00	2137	171.95	907
139.95	427	151.05	556	162.00	590	173.00	1074
141.00	4628	151.90	231	162.95	116	174.00	1904
142.00	1488	153.00	1368	163.95	248	175.00	3429
143.00	1167	154.00	1092	164.90	1676	176.00	1069
144.00	361	155.00	2629	166.00	1341	177.00	1593

Average of 2.316 to 2.328 min.: 2p2047.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
178.00	566	189.00	1576	200.00	1013	211.00	1817
179.00	6897	189.95	188	201.45	916	211.90	111
180.00	4618	191.00	736	203.00	1282	215.00	486
181.00	2152	192.00	2229	204.00	6423	216.00	1040
181.95	400	193.00	2471	205.00	10278	217.00	11727
182.95	218	194.00	510	206.00	41909	218.00	1522
184.00	530	195.00	286	207.00	5436	219.00	118
185.00	3051	196.00	5378	208.00	1467	221.00	9444
186.00	23973	197.10	345	208.95	489	223.00	2646
187.00	6528	198.00	178328	210.00	256	224.00	23341
188.00	650	199.00	11819	210.20	467	225.00	5800

Average of 2.316 to 2.328 min.: 2p2047.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.05	707	236.95	754	247.95	160	261.00	131
227.00	9807	238.00	107	248.95	622	263.85	116
228.00	1530	238.90	396	251.00	65	265.00	2103
229.00	2039	239.95	330	252.05	156	265.95	653

229.90	269	240.90	535	253.05	471	269.85	115
231.00	859	242.00	1292	255.00	86419	270.95	157
231.95	156	243.00	1409	256.00	12860	272.00	304
232.95	122	244.00	18990	257.00	1017	273.00	2828
233.95	672	245.00	2574	258.00	5274	274.00	7390
234.95	683	246.00	3611	259.00	843	275.00	38248
235.95	428	246.95	727	259.90	55	276.00	5217

Average of 2.316 to 2.328 min.: 2p2047.D\data.ms  
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.00	3392	297.00	1549	316.90	58	340.95	368
278.00	559	301.00	57	320.95	314	346.00	902
282.95	377	301.95	205	321.95	123	346.90	71
284.00	242	303.00	1309	323.05	3313	352.00	1021
284.95	458	303.95	381	324.05	548	353.00	718
285.90	51	308.05	122	326.95	709	354.05	988
292.10	52	309.90	51	327.95	358	355.00	147
292.95	685	312.90	51	332.00	263	365.00	4551
293.95	174	314.00	495	333.00	335	365.95	748
295.10	130	315.00	1181	334.00	2042	371.00	305
296.00	11205	316.00	612	335.00	504	372.00	1660

Average of 2.316 to 2.328 min.: 2p2047.D\data.ms  
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
372.95	389	423.00	5654	443.00	23675		
383.00	501	424.00	1194	444.05	2224		
384.00	58	424.95	111	445.00	115		
389.95	217	437.80	60				
391.00	65	438.10	77				
392.00	53	438.80	59				
401.95	655	439.00	206				
403.00	826	439.50	75				
404.05	327	440.00	121				
420.95	818	441.05	19807				
422.00	763	442.00	123992				

DFTPP

Data File : C:\msdchem\1\DATA\2p127\2p2247.D

Acq On : 2 Nov 2010 9:09 am

Sample : dftpp

Misc : op45931,e2p127,1000,,,1,1

MS Integration Params: events.e

Vial: 1

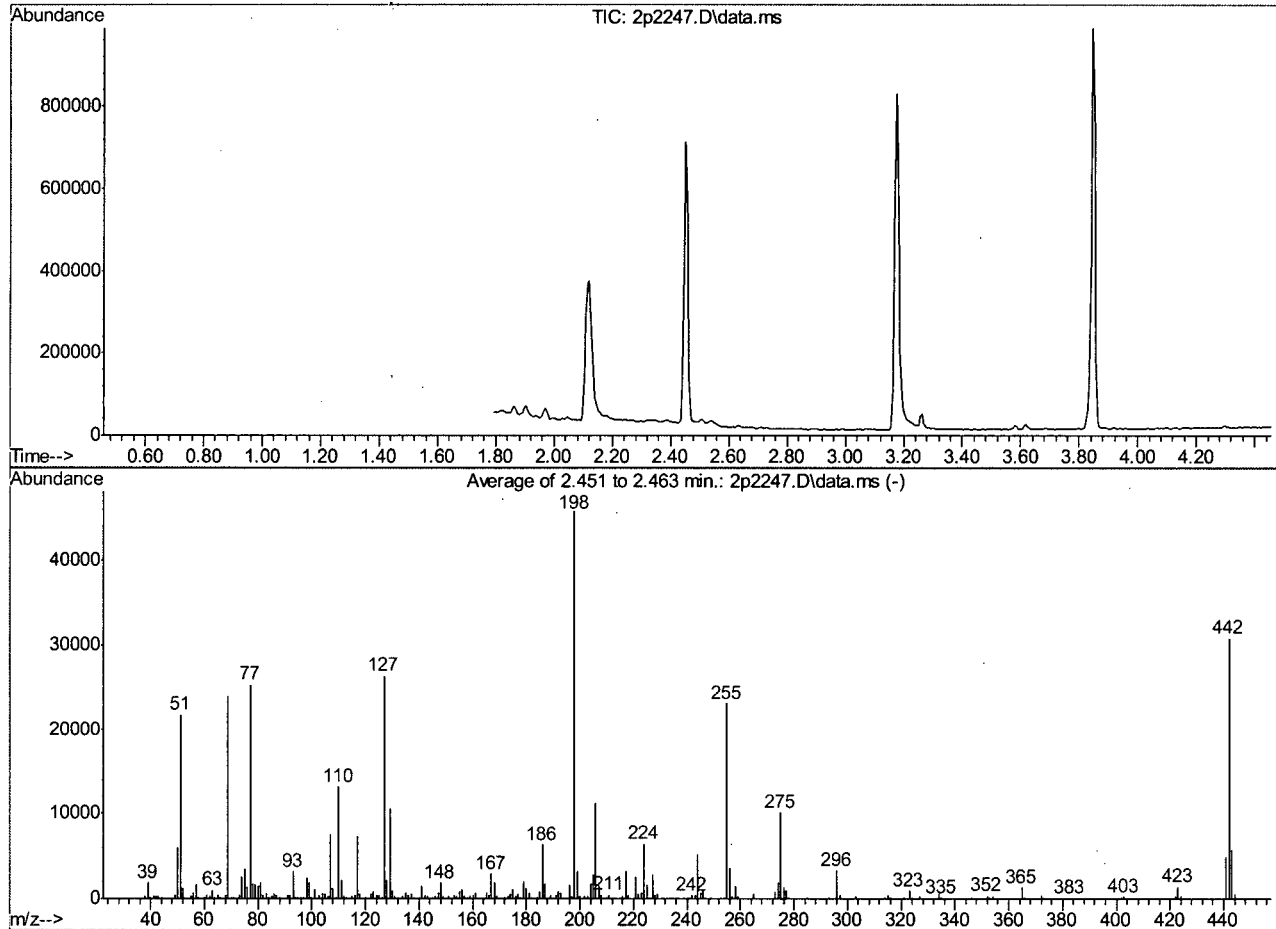
Operator: ninap

Inst : MS2P

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)

Title :



AutoFind: Scans 113, 114, 115; Background Corrected with Scan 107

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.3	21683	PASS
68	69	0.00	2	1.4	345	PASS
69	198	0.00	100	52.3	23928	PASS
70	69	0.00	2	0.6	154	PASS
127	198	40	60	57.5	26344	PASS
197	198	0.00	1	0.6	287	PASS
198	198	100	100	100.0	45794	PASS
199	198	5	9	7.0	3215	PASS
275	198	10	30	22.1	10134	PASS
365	198	1	100	2.8	1275	PASS
441	443	0.01	100	85.1	4849	PASS
442	198	40	100	67.3	30807	PASS
443	442	17	23	18.5	5697	PASS

2p2247.D DFTPP2P.M Tue Nov 02 15:48:20 2010 RPT1

Average of 2.451 to 2.463 min.: 2p2247.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	27	50.00	6010	60.95	386	73.00	368
36.90	36	51.05	21683	62.00	331	74.00	2494
38.00	286	52.05	1167	63.00	958	74.95	3491
39.00	1817	53.00	27	64.00	170	76.00	1328
39.95	102	53.95	22	65.00	360	77.05	25259
41.05	280	55.00	268	66.00	120	78.00	1700
42.00	219	56.00	683	67.00	59	78.95	1543
43.05	262	57.00	1577	68.00	345	80.00	1436
44.00	169	58.00	198	69.00	23928	81.00	1836
45.00	36	59.00	51	70.00	154	81.95	408
49.00	359	60.00	190	71.00	99	83.00	542

Average of 2.451 to 2.463 min.: 2p2247.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.90	114	97.05	144	109.00	178	122.00	563
85.00	331	98.00	2319	110.00	13156	123.00	859
85.90	501	98.95	1843	110.95	2085	123.95	376
87.00	373	99.90	171	112.00	328	125.00	456
87.90	134	101.00	1021	113.00	154	126.20	201
91.00	351	102.95	340	114.95	267	127.00	26344
92.00	465	104.00	562	116.00	398	128.00	2079
93.00	3169	105.00	511	117.00	7230	129.00	10509
93.95	132	106.00	270	118.00	579	130.00	949
95.00	86	107.00	7536	118.90	23	131.00	232
96.00	82	108.00	1200	119.90	120	131.90	153

Average of 2.451 to 2.463 min.: 2p2247.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
132.95	23	143.90	54	154.95	788	165.95	362
133.95	288	144.95	118	156.00	1028	167.00	2858
135.00	697	146.00	300	157.00	220	168.00	1850
136.00	349	147.00	681	157.90	174	168.95	235
137.00	553	148.00	1789	159.00	209	169.90	60
138.00	109	148.95	295	160.00	392	171.00	77
139.00	60	149.90	70	161.05	602	171.90	174
140.00	76	151.05	263	161.90	139	172.95	295
141.00	1393	151.95	148	163.10	54	174.00	489
142.00	407	152.90	406	164.00	64	175.00	1050
142.95	272	153.95	276	165.00	636	176.00	287

Average of 2.451 to 2.463 min.: 2p2247.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	515	189.00	419	199.95	255	211.00	461
177.90	173	189.90	58	201.45	207	214.85	172
178.95	1926	190.95	374	202.90	308	215.95	273
180.00	1147	192.00	733	204.00	1760	217.00	3181
181.00	689	192.95	613	205.00	2829	217.95	402
182.00	136	193.95	133	206.00	11202	221.00	2474
183.95	140	195.00	89	207.00	1474	221.85	469
185.00	862	196.00	1592	208.00	370	222.95	686
186.00	6301	197.05	287	208.95	165	224.00	6350
187.00	1775	198.00	45794	210.00	140	225.00	1618
188.05	181	199.00	3215	210.15	126	225.90	155

Average of 2.451 to 2.463 min.: 2p2247.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
227.00	2792	242.00	385	257.00	246	284.95	155
227.90	350	243.00	381	258.00	1508	292.95	161
228.95	593	244.00	5134	258.90	228	296.00	3259
231.00	203	245.00	673	265.00	568	297.00	381

233.95	139	246.00	965	266.00	55	303.00	289
234.90	191	246.95	202	273.00	791	313.90	52
236.00	117	248.95	161	274.00	1911	314.10	76
236.95	190	252.85	132	275.00	10134	314.95	353
239.00	75	254.10	105	276.00	1356	315.95	144
239.90	56	255.00	23116	277.00	936	320.95	108
240.95	149	256.00	3605	278.00	165	323.00	880

Average of 2.451 to 2.463 min.: 2p2247.D\data.ms  
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
324.00	140	366.00	165	442.00	30807		
326.90	210	372.00	340	443.00	5697		
328.00	61	373.00	111	444.00	518		
334.00	552	383.00	51				
334.90	112	401.95	150				
341.00	65	402.90	229				
346.00	169	420.90	159				
352.00	267	421.95	206				
352.95	146	423.00	1389				
353.95	233	424.00	205				
364.95	1275	441.00	4849				

8.5.3

8

DFTPP

Data File : C:\msdchem\1\DATA\2p128\2p2277.D

Acq On : 3 Nov 2010 11:27 am

Sample : dftpp

Misc : op45931,e2p128,1000,,,1,1

MS Integration Params: events.e

Vial: 1

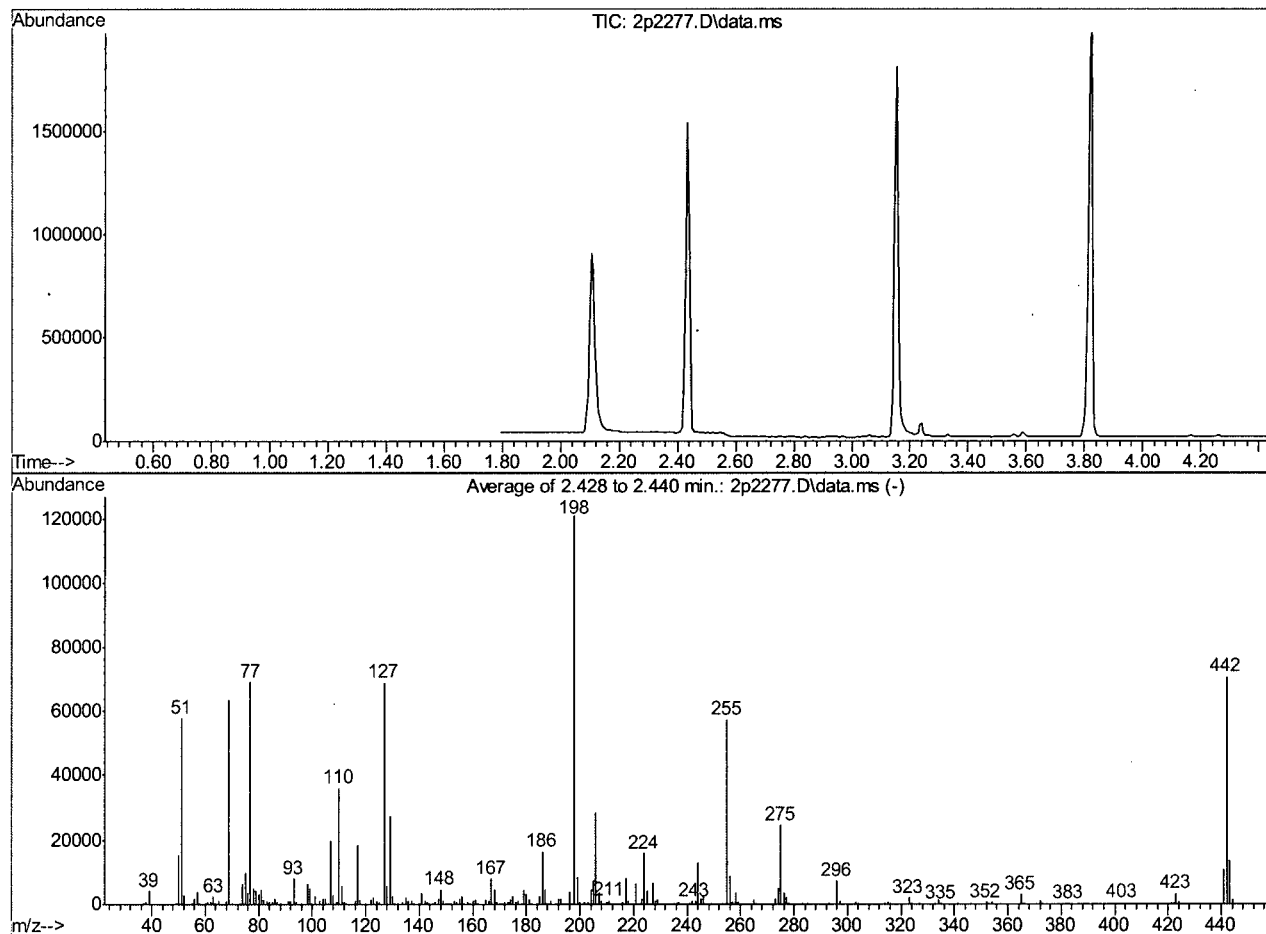
Operator: krutikap

Inst : MS2P

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)

Title :



AutoFind: Scans 109, 110, 111; Background Corrected with Scan 105

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	30	60	47.8	57849	PASS
68	69	0.00	2	1.8	1168	PASS
69	198	0.00	100	52.5	63452	PASS
70	69	0.00	2	0.4	281	PASS
127	198	40	60	56.9	68744	PASS
197	198	0.00	1	0.2	278	PASS
198	198	100	100	100.0	120909	PASS
199	198	5	9	7.0	8441	PASS
275	198	10	30	20.5	24757	PASS
365	198	1	100	2.5	3016	PASS
441	443	0.01	100	79.4	10696	PASS
442	198	40	100	58.3	70483	PASS
443	442	17	23	19.1	13466	PASS



Average of 2.428 to 2.440 min.: 2p2277.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	2	52.00	2858	64.00	335	76.00	3527
37.00	269	53.00	134	65.00	1162	76.95	68912
38.00	751	55.00	227	65.95	119	78.05	4902
39.00	4044	56.00	1662	67.00	74	79.00	4343
40.00	151	57.05	3864	68.00	1168	80.00	3262
42.05	63	58.00	301	69.00	63452	81.00	4665
43.10	132	59.00	114	70.00	281	82.00	1338
45.00	88	60.00	277	71.00	88	82.95	1008
49.00	226	61.00	705	73.00	399	83.95	545
50.00	15435	62.00	862	74.00	6456	85.00	729
51.05	57849	63.00	2356	75.00	9789	86.00	1700

Average of 2.428 to 2.440 min.: 2p2277.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.95	601	98.00	6299	109.05	635	121.00	135
87.90	295	99.00	4791	110.00	35957	122.00	1423
88.95	122	99.95	454	111.00	5622	123.00	2106
91.00	1011	101.00	2619	112.00	798	123.95	988
92.00	1189	102.00	181	112.95	271	124.95	858
93.00	8005	102.95	949	114.95	179	127.00	68744
94.00	590	104.00	1611	116.00	1080	128.00	5478
94.95	124	105.00	1637	117.00	18387	129.00	27624
96.00	488	105.95	526	118.00	1394	130.00	2367
96.95	19	107.00	19862	119.00	164	130.95	508
97.20	77	108.00	2888	120.00	251	131.90	264

Average of 2.428 to 2.440 min.: 2p2277.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
132.90	161	144.00	221	155.00	1833	165.95	941
133.90	736	145.00	209	156.00	2557	167.00	7891
135.00	2130	145.95	606	156.95	532	168.00	4399
135.95	892	147.00	1762	157.95	596	168.95	638
137.00	1207	148.00	4550	158.95	506	170.05	198
137.95	253	148.95	913	159.95	1013	170.90	271
138.90	68	149.95	282	161.00	1562	171.95	618
139.95	349	151.05	424	162.00	470	173.00	737
141.00	3437	151.95	297	162.90	91	174.00	1347
142.00	1151	153.00	1123	164.00	175	175.00	2518
143.00	766	153.95	863	164.95	1240	176.00	846

Average of 2.428 to 2.440 min.: 2p2277.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.95	1123	188.00	461	198.00	120909	210.05	547
178.00	409	188.95	973	199.00	8441	211.00	1118
178.95	4697	189.90	141	200.00	633	214.95	327
180.00	3140	190.95	529	201.45	606	215.95	689
181.00	1442	191.95	1651	202.95	883	217.00	8042
181.95	306	193.00	1732	204.00	4468	217.95	1036
182.90	82	194.00	364	205.00	7204	221.00	6272
183.95	391	194.90	50	206.00	28493	222.95	1767
185.00	2364	195.05	149	207.00	3646	224.00	15927
186.00	16572	196.00	3696	207.95	1006	225.00	4106
187.00	4485	197.10	278	208.95	348	225.95	455

Average of 2.428 to 2.440 min.: 2p2277.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
227.00	6788	239.95	133	252.95	298	270.80	50
227.95	953	241.00	354	255.00	57331	272.00	136
229.00	1422	242.00	890	256.00	8611	273.00	1923
229.90	217	243.05	1030	256.95	617	274.00	4979

231.00	528	244.00	12883	258.00	3538	275.00	24757
233.00	51	245.00	1864	259.00	582	276.00	3397
233.90	394	246.00	2384	260.00	60	277.00	2140
234.95	503	247.00	492	261.00	53	277.95	346
236.00	327	248.95	408	263.85	142	282.95	198
236.95	558	251.00	57	265.00	1390	283.95	116
238.90	258	251.90	73	265.85	308	284.95	371

Average of 2.428 to 2.440 min.: 2p2277.D\data.ms  
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
292.95	443	322.00	105	346.00	432	390.00	65
293.95	122	323.00	1961	352.00	623	402.00	315
295.00	81	324.00	340	353.00	413	403.00	468
296.00	7301	326.90	430	354.00	567	404.05	175
296.95	967	327.90	165	355.05	106	421.00	505
303.00	830	331.95	108	365.00	3016	421.95	441
303.95	235	332.90	192	365.90	508	423.00	3253
314.00	242	334.00	1292	370.90	137	424.00	583
315.00	800	335.00	349	371.95	960	439.20	52
315.95	366	341.05	191	373.00	279	441.00	10696
320.95	175	345.80	56	382.95	287	442.00	70483

Average of 2.428 to 2.440 min.: 2p2277.D\data.ms  
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
443.00	13466						
444.00	1292						

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2039.D  
 Acq On : 21 Oct 2010 11:05 am  
 Operator : kristis  
 Sample : ic117-100  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 11:49:30 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Wed Oct 20 11:20:13 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.150	152	90104	40.00	ppb	0.00
24) Naphthalene-d8	7.070	136	349555	40.00	ppb	0.00
47) Acenaphthene-d10	9.819	164	197565	40.00	ppb	0.00
69) Phenanthrene-d10	12.119	188	310772	40.00	ppb	0.00
83) Chrysene-d12	15.917	240	332325	40.00	ppb	0.01
92) Perylene-d12	17.570	264	284994	40.00	ppb	0.02
102) 1,4-Dichlorobenzene-d4a	5.150	152	90104	40.00	ppb	0.00
104) Acenaphthene-d10a	9.819	164	197565	40.00	ppb	0.00
106) Chrysene-d12a	15.917	240	332325	40.00	ppb	0.01
108) Acenaphthene-d10b	9.819	164	197565	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.454	112	302200	110.64	ppb	-0.01
Spiked Amount 50.000			Recovery	=	221.28%	
8) Phenol-d5	4.840	99	400725	113.23	ppb	0.01
Spiked Amount 50.000			Recovery	=	226.46%	
25) Nitrobenzene-d5	6.038	82	347769	104.05	ppb	0.00
Spiked Amount 50.000			Recovery	=	208.10%	
51) 2-Fluorobiphenyl	8.841	172	643762	101.78	ppb	0.00
Spiked Amount 50.000			Recovery	=	203.56%	
73) 2,4,6-Tribromophenol	11.092	330	79571	111.16	ppb	0.01
Spiked Amount 50.000			Recovery	=	222.32%	
85) Terphenyl-d14	14.601	244	555180	101.17	ppb	0.00
Spiked Amount 50.000			Recovery	=	202.34%	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	1.422	88	104698	86.23	ppb	97
3) Pyridine	1.732	79	317719	100.68	ppb	96
4) N-Nitrosodimethylamine	1.732	74	188987	104.64	ppb	90
6) Indene	5.562	116	426837	101.13	ppb	99
7) Cumene	4.075	105	556374	95.61	ppb	98
9) Phenol	4.856	94	420008	107.60	ppb	90
10) Aniline	4.765	93	366637	90.66	ppb	89
11) bis(2-Chloroethyl)ether	4.893	93	319227	102.05	ppb	98
12) 2-Chlorophenol	4.915	128	338691	109.34	ppb	95
13) Decane	5.043	57	286019	90.07	ppb	96
14) 1,3-Dichlorobenzene	5.091	146	335366	98.80	ppb	99
15) 1,4-Dichlorobenzene	5.171	146	343529	97.90	ppb	99
16) Benzyl alcohol	5.466	108	225982	112.60	ppb	99
17) 1,2-Dichlorobenzene	5.444	146	329112	99.24	ppb	99
18) Acetophenone	5.835	105	413454	103.62	ppb	99
19) 2-Methylphenol	5.706	108	288709	108.87	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.690	121	105863	100.40	ppb	# 79
21) 3&4-Methylphenol	5.936	108	319773	112.94	ppb	98
22) n-Nitroso-di-n-propyla...	5.920	70	211553	104.97	ppb	95
23) Hexachloroethane	5.888	201	107519	99.52	ppb	98
26) Nitrobenzene	6.065	123	165716	107.22	ppb	91
27) Quinoline	7.669	129	551208m	106.60	ppb	
28) Isophorone	6.450	82	552148	98.85	ppb	97

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2039.D  
 Acq On : 21 Oct 2010 11:05 am  
 Operator : kristis  
 Sample : ic117-100  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 11:49:30 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Wed Oct 20 11:20:13 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	6.546	139	181940	111.65	ppb	94
30) 2,4-Dimethylphenol	6.722	107	304156	115.90	ppb	97
31) Benzoic acid	7.124	105	259743m	120.19	ppb	
32) bis(2-Chloroethoxy)met...	6.851	93	363964	101.75	ppb	99
33) 2,4-Dichlorophenol	6.931	162	264187	114.07	ppb	99
34) 2,6-Dichlorophenol	7.279	162	261542	109.69	ppb	99
35) 1,3,5-Trichlorobenzene	6.546	180	267161	97.72	ppb	99
36) 1,2,4-Trichlorobenzene	7.027	180	266428	100.28	ppb	98
37) 1,2,3-Trichlorobenzene	7.391	180	258101	101.29	ppb	100
38) Naphthalene	7.102	128	899684	96.34	ppb	99
39) 4-Chloroaniline	7.284	127	384951	100.57	ppb	99
40) 2,3-Dichloroaniline	8.696	161	303366	108.72	ppb	99
41) Caprolactam	7.905	113	102607m	111.25	ppb	
42) Hexachlorobutadiene	7.428	225	132232	97.09	ppb	98
43) 4-Chloro-3-methylphenol	8.140	107	277460	112.78	ppb	96
44) 2-Methylnaphthalene	8.183	142	615679	99.80	ppb	98
45) 1-Methylnaphthalene	8.343	142	579085	101.52	ppb	99
46) Dimethylnaphthalene	9.178	156	507589	102.31	ppb	98
48) Hexachlorocyclopentadiene	8.562	237	248178	206.51	ppb	99
49) 2,4,6-Trichlorophenol	8.718	196	186435	113.52	ppb	99
50) 2,4,5-Trichlorophenol	8.782	196	193431	116.21	ppb	99
52) 2-Chloronaphthalene	8.931	162	551679	101.72	ppb	99
53) Biphenyl	8.958	154	701495	100.84	ppb	99
54) 2-Nitroaniline	9.204	65	184109	105.77	ppb	95
55) Dimethylphthalate	9.600	163	629449	103.24	ppb	100
56) Acenaphthylene	9.573	152	904363	105.44	ppb	99
57) 2,6-Dinitrotoluene	9.675	165	148133	115.78	ppb	92
58) 3-Nitroaniline	9.873	138	187485	106.65	ppb	91
59) Acenaphthene	9.878	153	563728	99.57	ppb	99
60) 2,4-Dinitrophenol	10.028	184	183483	282.17	ppb	92
61) 4-Nitrophenol	10.242	109	101703	117.19	ppb	95
62) Dibenzofuran	10.140	168	784891	102.45	ppb	92
63) 2,4-Dinitrotoluene	10.274	165	202611	116.25	ppb	95
64) 2,3,4,6-Tetrachlorophenol	10.434	232	156468	111.64	ppb	97
65) Diethylphthalate	10.739	149	614434	97.79	ppb	99
66) Fluorene	10.675	166	622998	105.08	ppb	100
67) 4-Chlorophenyl-phenyle...	10.734	204	277387	100.39	ppb	97
68) 4-Nitroaniline	10.873	138	176756	107.34	ppb	95
70) 4,6-Dinitro-2-methylph...	10.921	198	124921	113.83	ppb	93
71) n-Nitrosodiphenylamine	10.959	169	457261	106.67	ppb	99
72) 1,2-Diphenylhydrazine	10.980	77	694616	98.26	ppb	95
74) 4-Bromophenyl-phenylether	11.483	248	164038	111.53	ppb	95
75) Hexachlorobenzene	11.665	284	165448	105.15	ppb	94
76) Pentachlorophenol	11.986	266	250468	255.33	ppb	98
77) Phenanthrene	12.162	178	879235	100.79	ppb	100
78) Anthracene	12.232	178	875152	98.87	ppb	99
79) Carbazole	12.542	167	844752	106.90	ppb	100
80) Di-n-butylphthalate	13.312	149	1048534	106.10	ppb	100
81) Fluoranthene	13.981	202	901136	105.85	ppb	99
82) Octadecane	12.194	71	245506	99.03	ppb	94

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2039.D  
 Acq On : 21 Oct 2010 11:05 am  
 Operator : kristis  
 Sample : ic117-100  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 2 Sample Multiplier: 1

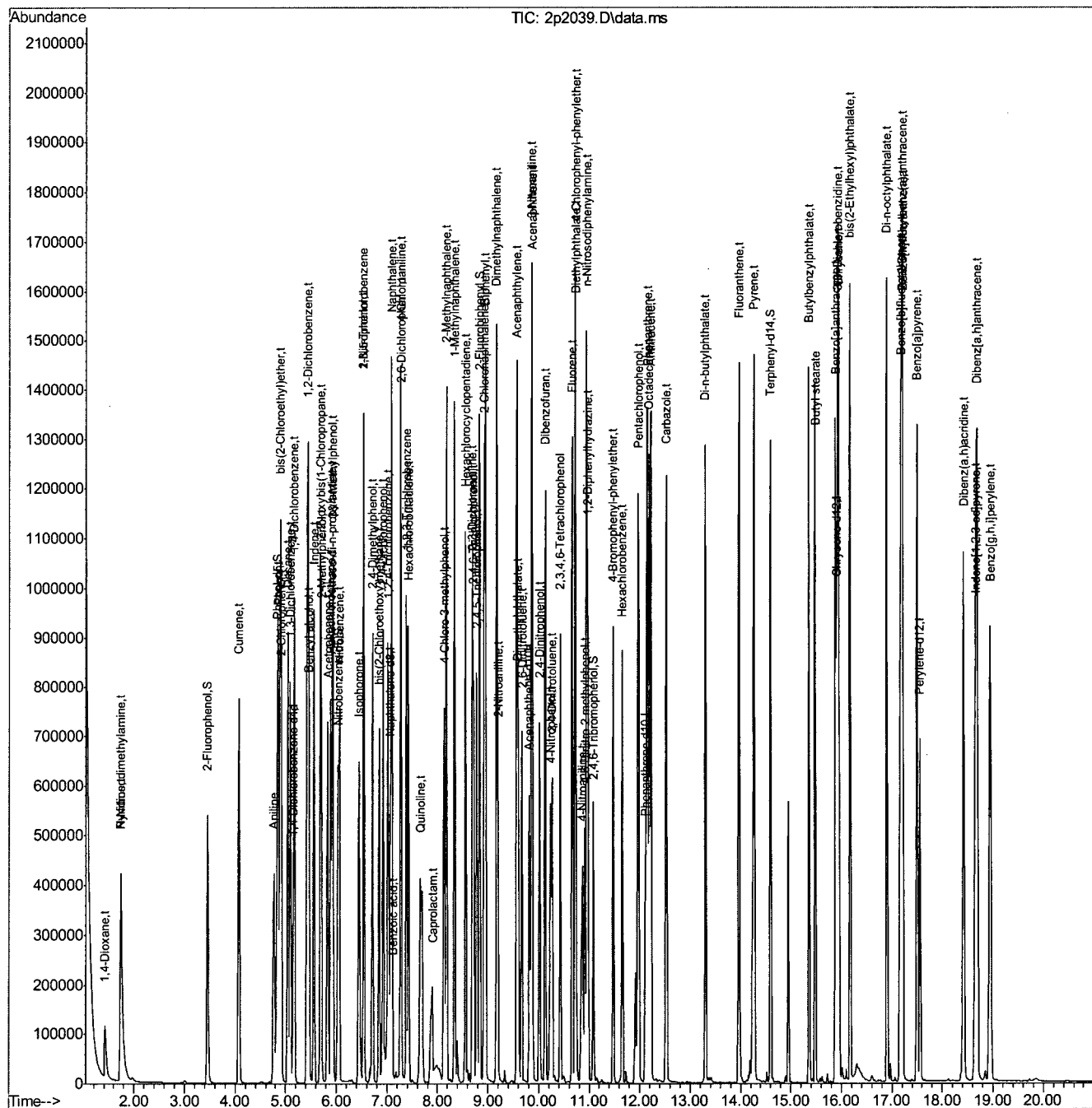
Quant Time: Oct 21 11:49:30 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Wed Oct 20 11:20:13 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	14.280	202	956180	100.21	ppb	99
86) Butylbenzylphthalate	15.366	149	484740	106.34	ppb	98
87) Butyl stearate	15.489	285	62453	104.34	ppb #	67
88) Benzo[a]anthracene	15.895	228	829622	99.68	ppb	99
89) 3,3'-Dichlorobenzidine	15.944	252	291587	99.67	ppb	97
90) Chrysene	15.960	228	746504	89.76	ppb	98
91) bis(2-Ethylhexyl)phtha...	16.179	149	657794	109.00	ppb	98
93) Di-n-octylphthalate	16.912	149	1117768	114.94	ppb	97
94) Benzo[b]fluoranthene	17.190	252	1110367	133.71	ppb	96
95) Benzo[k]fluoranthene	17.227	252	439763	57.83	ppb	94
96) Benzo[a]pyrene	17.516	252	751702	106.84	ppb	98
97) Indeno[1,2,3-cd]pyrene	18.671	276	930364	111.04	ppb	96
98) Dibenz(a,h)acridine	18.436	279	673445	110.34	ppb	100
99) Dibenz[a,h]anthracene	18.703	278	756637	109.56	ppb	99
100) 7,12-Dimethylbenz(a)an...	17.222	256	317446	101.75	ppb	99
101) Benzo[g,h,i]perylene	18.965	276	769409	109.48	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path   : C:\msdchem\1\DATA\2p117\  
Data File   : 2p2039.D  
Acq On      : 21 Oct 2010  11:05 am  
Operator    : kristis  
Sample      : ic117-100  
Misc        : op45931,e2p117,1000,,,1,1  
ALS Vial    : 2      Sample Multiplier: 1
```

Quant Time: Oct 21 11:49:30 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Wed Oct 20 11:20:13 2010  
Response via : Initial Calibration



M2P117.M Thu Oct 21 21:27:24 2010 RPT1

Page: 4

8.6.1

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** E2P117-IC117  
**Lab FileID:** 2P2039.D  
**Injection Time:** 10/21/10 11:05

**Method:** SW846 8270C  
**Analyst approved:** 10/25/10 15:16 Krutika Patel  
**Supervisor approved:** 10/25/10 15:58 Kristi Schollenberger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		7.12	Split peak
Quinoline	91-22-5		7.67	Split peak
Caprolactam	105-60-2		7.90	Split peak

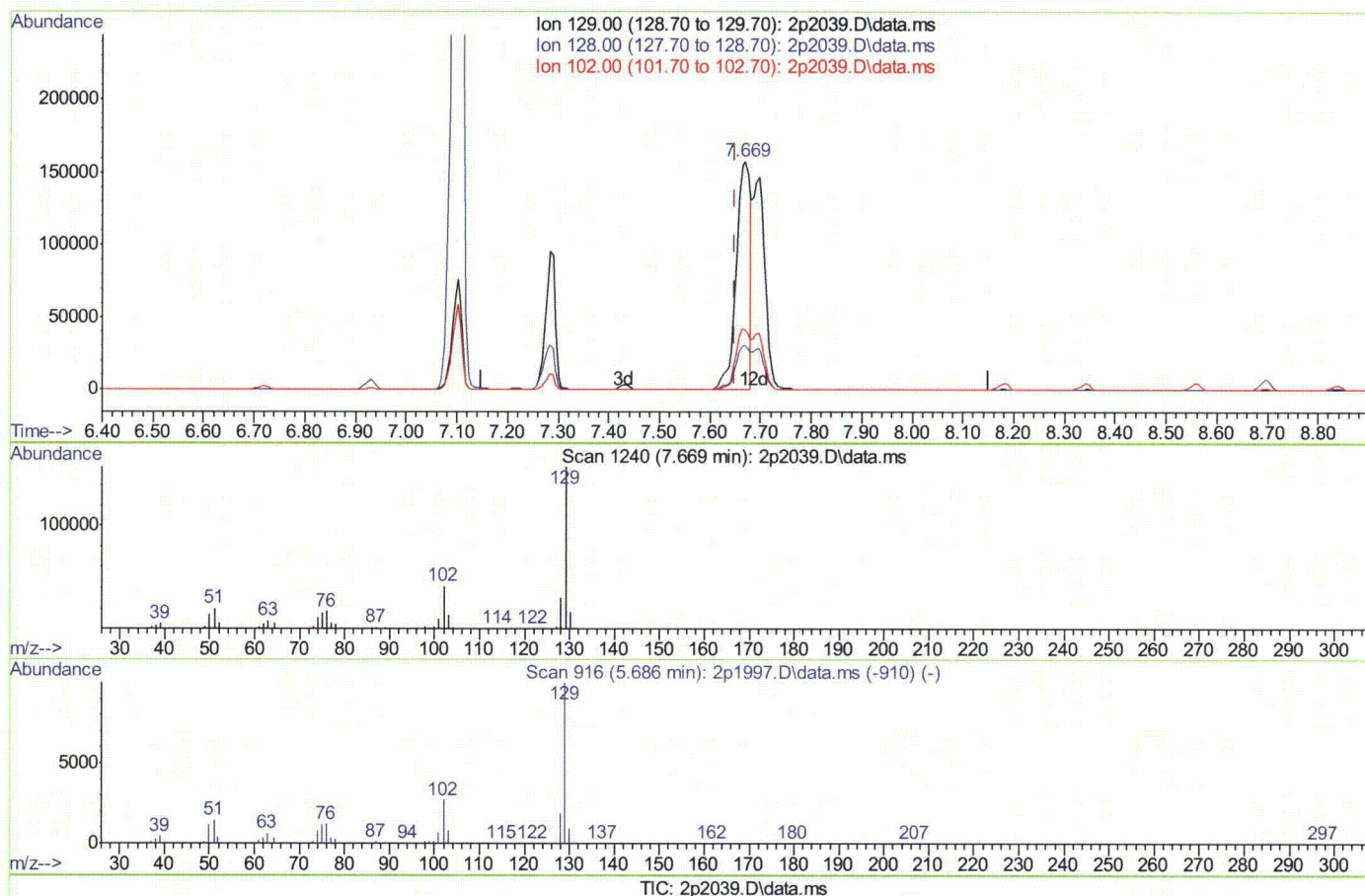
8.6.1.1

8

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2039.D  
Acq On : 21 Oct 2010 11:05 am  
Operator : kristis  
Sample : ic117-100  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 11:47:07 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Wed Oct 20 11:20:13 2010  
Response via : Initial Calibration



(27) Quinoline (t)

7.669min (+0.019) 59.12ppb

response 305696

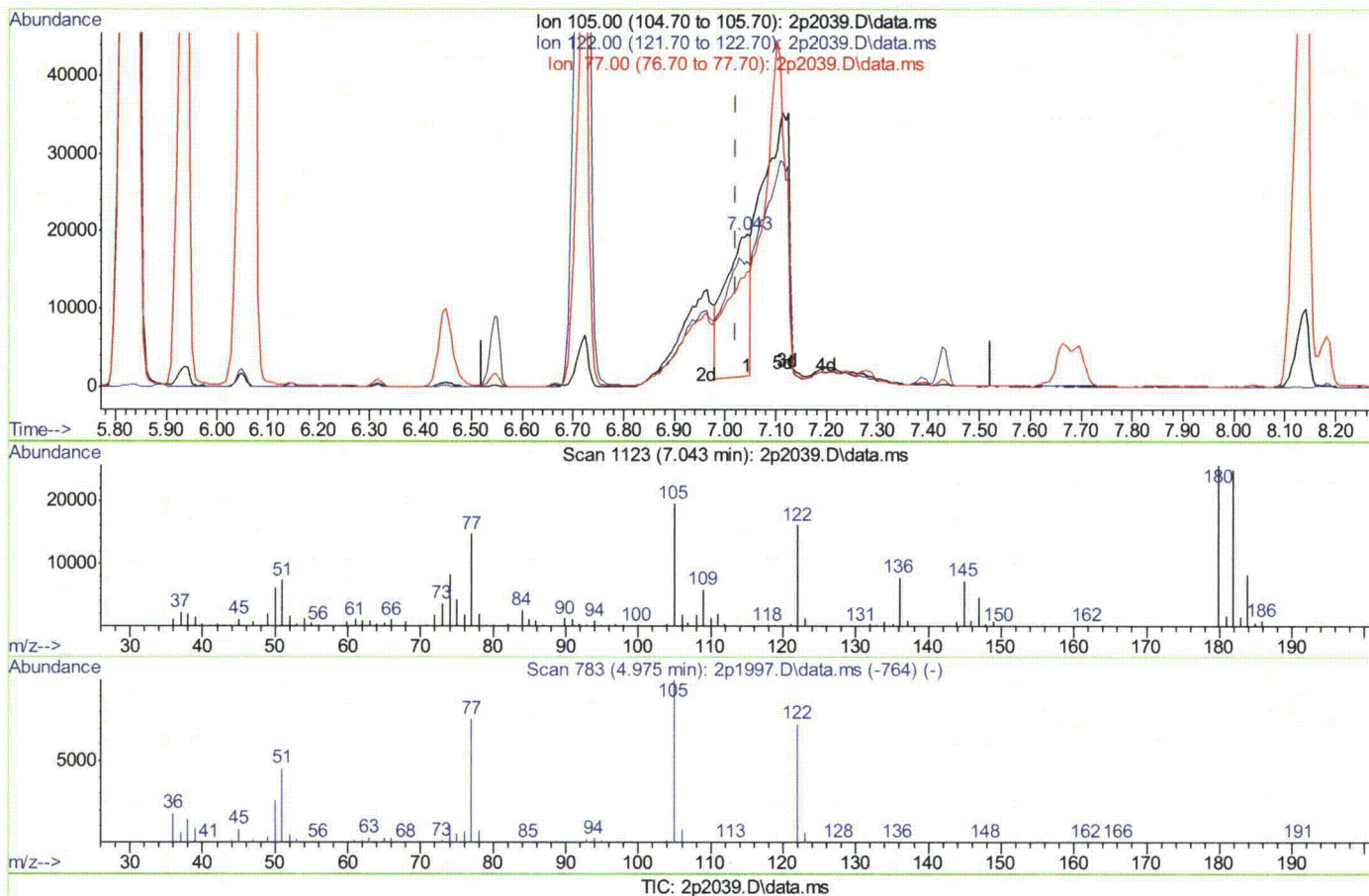
Ion	Exp%	Act%
129.00	100	100
128.00	19.10	19.25
102.00	26.70	25.79
0.00	0.00	0.00



## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2039.D  
Acq On : 21 Oct 2010 11:05 am  
Operator : kristis  
Sample : ic117-100  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 11:47:07 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Wed Oct 20 11:20:13 2010  
Response via : Initial Calibration



(31) Benzoic acid (t)

7.043min (+0.021) 28.31ppb

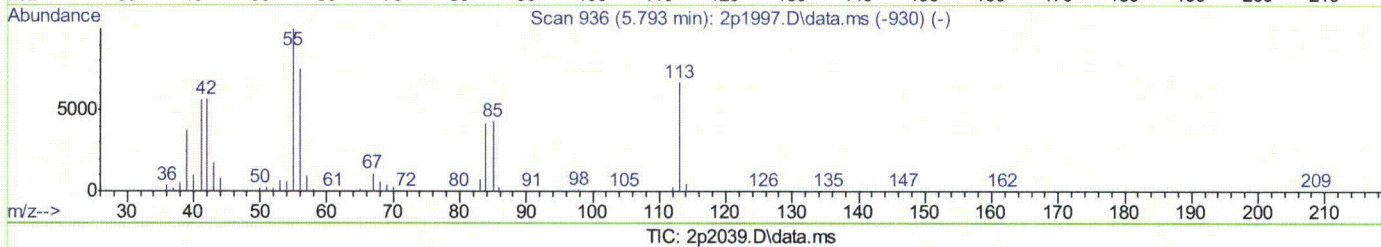
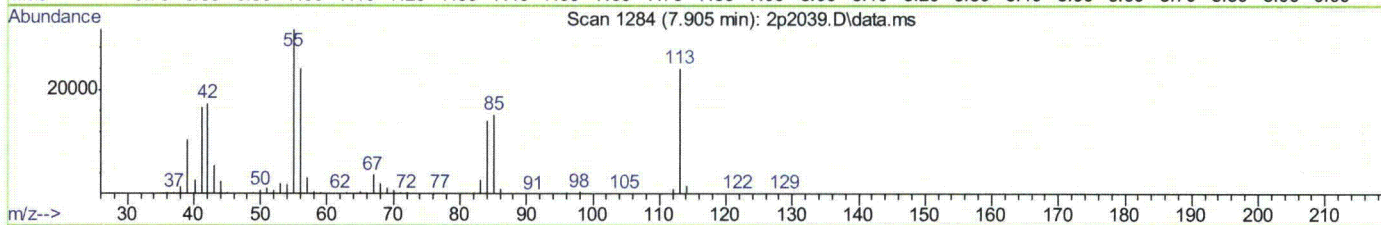
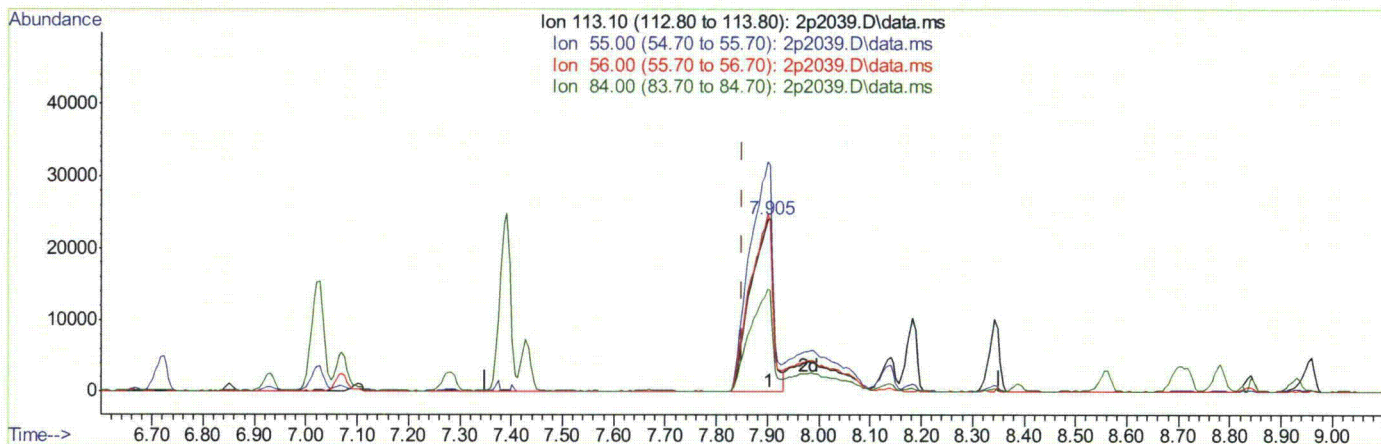
response 61190

Ion	Exp%	Act%
105.00	100	100
122.00	81.80	87.86
77.00	71.00	67.54
0.00	0.00	0.00

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2039.D  
Acq On : 21 Oct 2010 11:05 am  
Operator : kristis  
Sample : ic117-100  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 11:47:07 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Wed Oct 20 11:20:13 2010  
Response via : Initial Calibration



(41) Caprolactam (t)

7.905min (+0.054) 80.49ppb

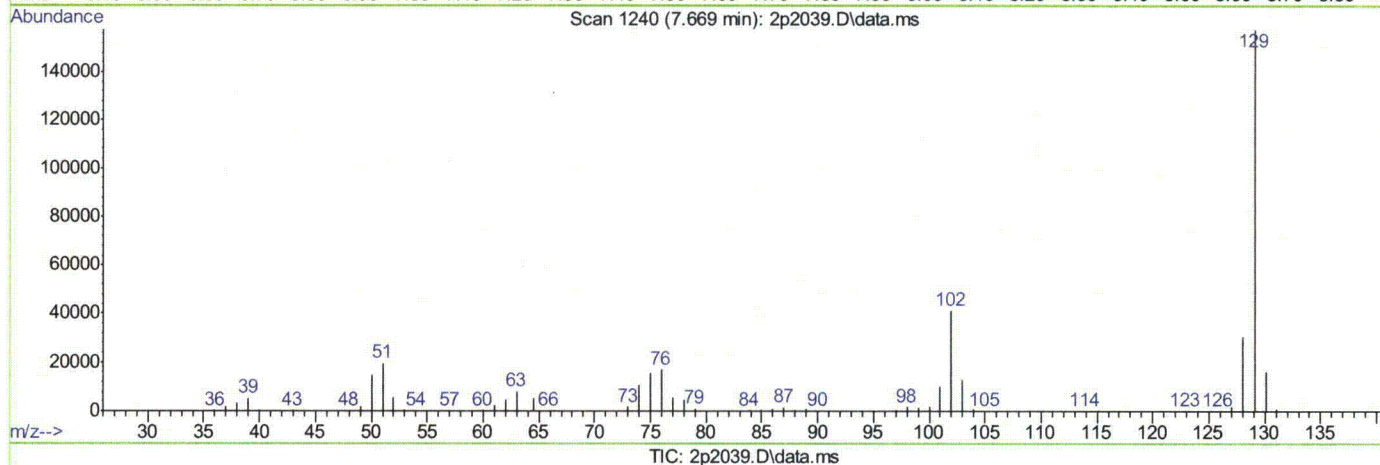
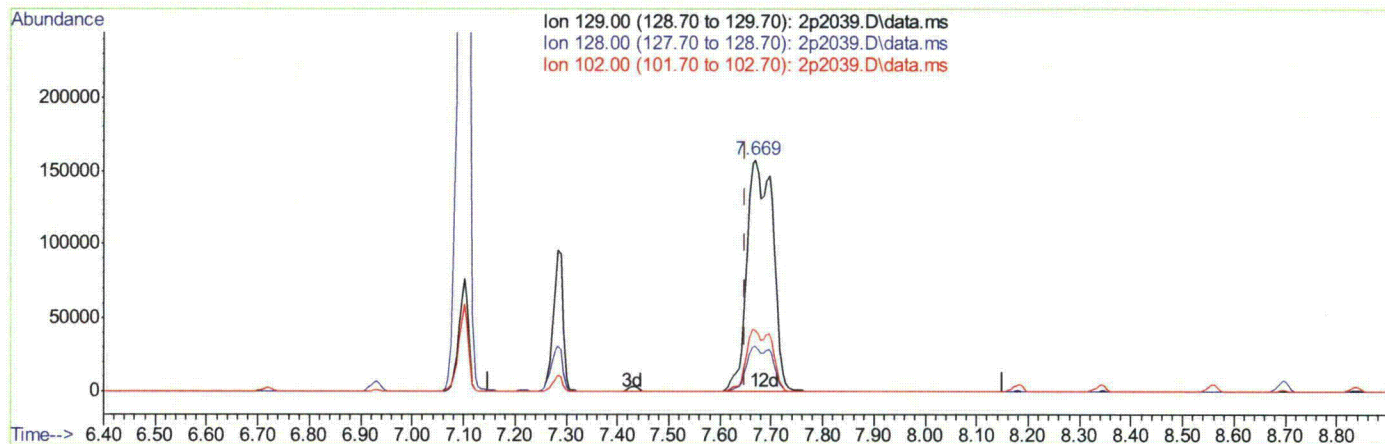
response 74239

Ion	Exp%	Act%
113.10	100	100
55.00	141.90	129.65
56.00	105.10	98.83
84.00	59.90	58.18

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2039.D  
Acq On : 21 Oct 2010 11:05 am  
Operator : kristis  
Sample : ic117-100  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 11:49:30 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Wed Oct 20 11:20:13 2010  
Response via : Initial Calibration



(27) Quinoline (t)

7.669min (+0.019) 106.60ppb m

response 551208

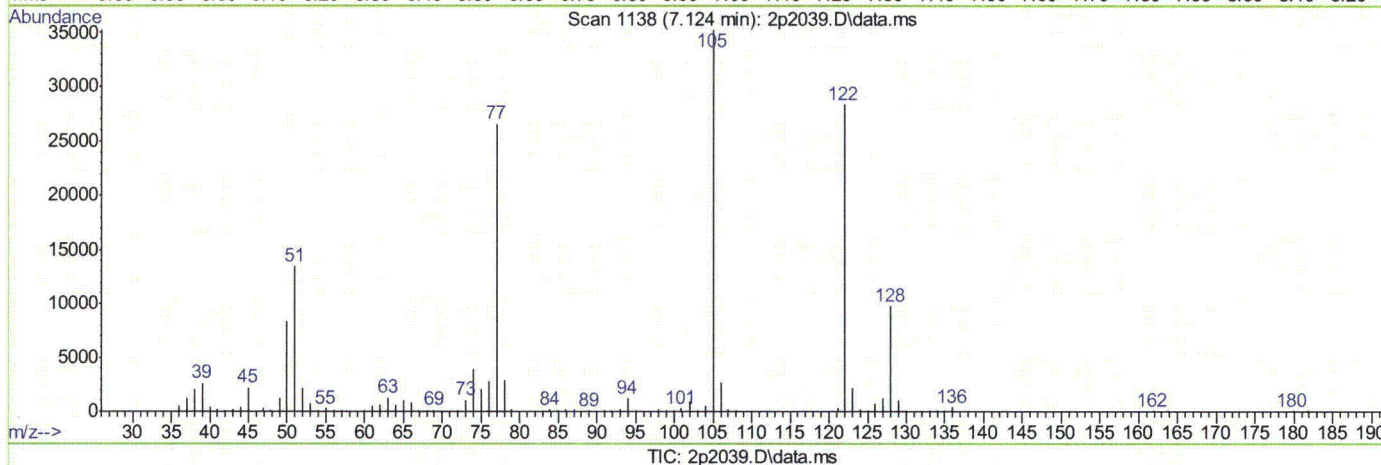
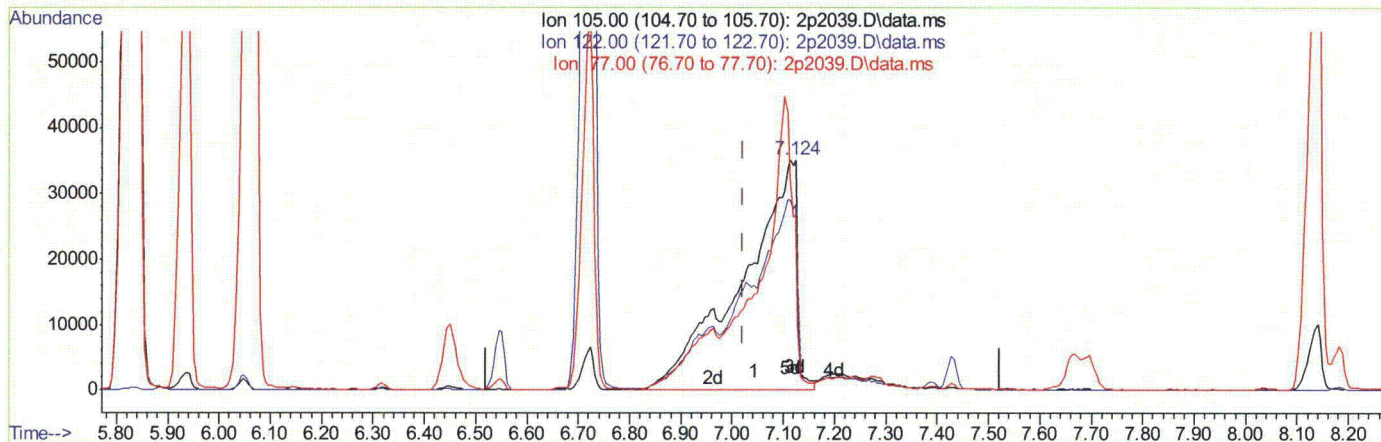
Ion	Exp%	Act%
129.00	100	100
128.00	19.10	19.51
102.00	26.70	26.15
0.00	0.00	0.00



## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2039.D  
Acq On : 21 Oct 2010 11:05 am  
Operator : kristis  
Sample : ic117-100  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 11:49:30 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Wed Oct 20 11:20:13 2010  
Response via : Initial Calibration



(31) Benzoic acid (t)

7.124min (+0.102) 120.19ppb m

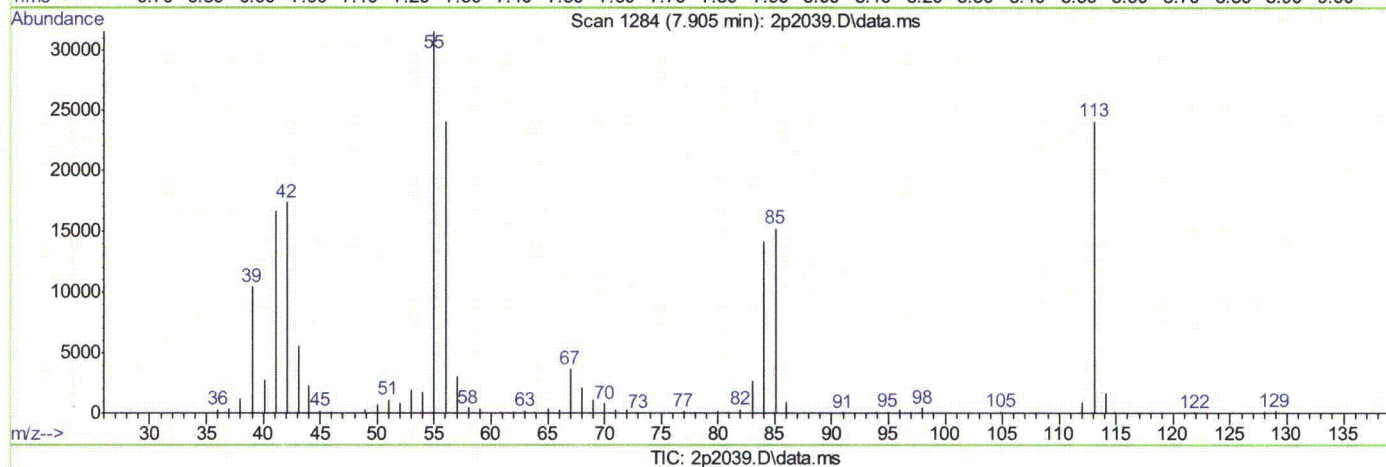
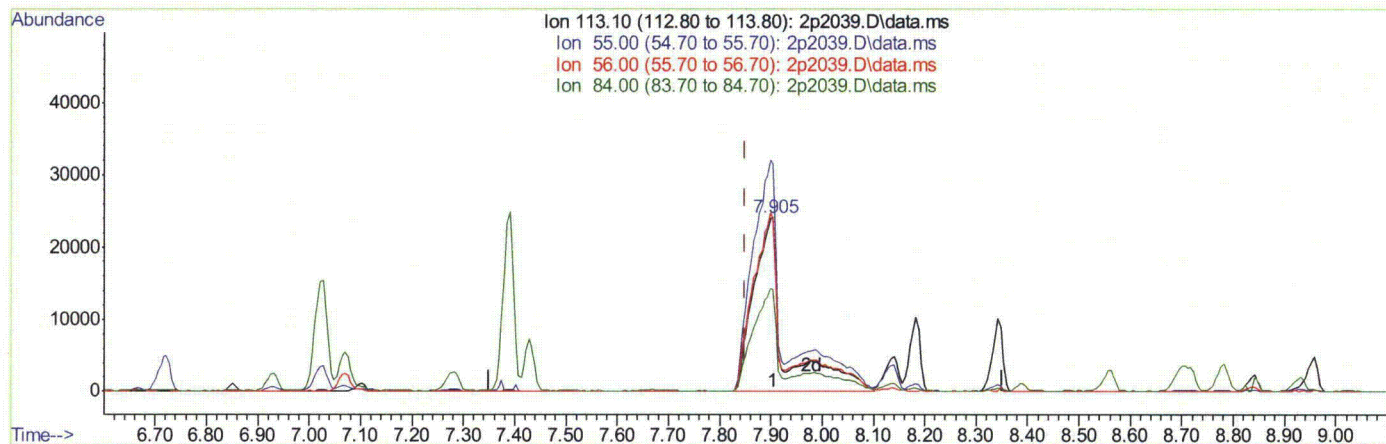
response 259743

Ion	Exp%	Act%
105.00	100	100
122.00	81.80	80.59
77.00	71.00	75.50
0.00	0.00	0.00

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2039.D  
Acq On : 21 Oct 2010 11:05 am  
Operator : kristis  
Sample : ic117-100  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 11:49:30 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Wed Oct 20 11:20:13 2010  
Response via : Initial Calibration



(41) Caprolactam (t)

7.905min (+0.054) 111.25ppb m

response 102607

Ion	Exp%	Act%
113.10	100	100
55.00	141.90	130.97
56.00	105.10	99.70
84.00	59.90	58.79

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2040.D  
 Acq On : 21 Oct 2010 11:32 am  
 Operator : kristis  
 Sample : ic117-1  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 11:56:31 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 11:55:03 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.144	152	95218	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	356924	40.00	ppb	0.00
47) Acenaphthene-d10	9.814	164	200168	40.00	ppb	0.00
69) Phenanthrene-d10	12.103	188	315564	40.00	ppb	0.00
83) Chrysene-d12	15.901	240	308262	40.00	ppb	0.00
92) Perylene-d12	17.553	264	269277	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.144	152	95218	40.00	ppb	0.00
104) Acenaphthene-d10a	9.814	164	200168	40.00	ppb	0.00
106) Chrysene-d12a	15.901	240	308262	40.00	ppb	0.00
108) Acenaphthene-d10b	9.814	164	200168	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.449	112	3351	1.05	ppb	0.00
Spiked Amount 50.000			Recovery	=	2.10%	
8) Phenol-d5	4.808	99	4505	1.06	ppb	0.00
Spiked Amount 50.000			Recovery	=	2.12%	
25) Nitrobenzene-d5	6.011	82	3992	1.12	ppb	0.00
Spiked Amount 50.000			Recovery	=	2.24%	
51) 2-Fluorobiphenyl	8.819	172	7971	1.22	ppb	0.00
Spiked Amount 50.000			Recovery	=	2.44%	
73) 2,4,6-Tribromophenol	11.065	330	721	0.89	ppb	-0.03
Spiked Amount 50.000			Recovery	=	1.78%	
85) Terphenyl-d14	14.585	244	6047	1.17	ppb	0.00
Spiked Amount 50.000			Recovery	=	2.34%	
Target Compounds						
2) 1,4-Dioxane	1.449	88	1120	1.01	ppb	Qvalue 93
3) Pyridine	1.818	79	4048	1.21	ppb	96
4) N-Nitrosodimethylamine	1.759	74	2252	1.13	ppb	# 63
6) Indene	5.556	116	5035	1.12	ppb	94
7) Cumene	4.080	105	6926	1.18	ppb	99
9) Phenol	4.824	94	4765	1.07	ppb	91
10) Aniline	4.759	93	6271	1.62	ppb	95
11) bis(2-Chloroethyl)ether	4.877	93	3758	1.11	ppb	95
12) 2-Chlorophenol	4.898	128	3733	1.04	ppb	99
13) Decane	5.037	57	3635	1.20	ppb	95
14) 1,3-Dichlorobenzene	5.086	146	4117	1.16	ppb	95
15) 1,4-Dichlorobenzene	5.166	146	4168	1.15	ppb	92
16) Benzyl alcohol	5.439	108	2460	1.03	ppb	93
17) 1,2-Dichlorobenzene	5.433	146	4045	1.16	ppb	99
18) Acetophenone	5.808	105	4992	1.14	ppb	94
19) 2-Methylphenol	5.679	108	3207	1.05	ppb	98
20) 2,2'-oxybis(1-Chloropr...	5.679	121	1278	1.14	ppb	# 68
21) 3&4-Methylphenol	5.909	108	3343	0.99	ppb	99
22) n-Nitroso-di-n-propyla...	5.883	70	2602	1.16	ppb	94
23) Hexachloroethane	5.888	201	1210	1.06	ppb	86
26) Nitrobenzene	6.043	123	1830	1.08	ppb	97
27) Quinoline	7.616	129	7125	1.27	ppb	99
28) Isophorone	6.412	82	7029	1.25	ppb	91

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2040.D  
 Acq On : 21 Oct 2010 11:32 am  
 Operator : kristis  
 Sample : ic117-1  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 11:56:31 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 11:55:03 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	6.530	139	1654	0.89	ppb	73
30) 2,4-Dimethylphenol	6.696	107	3057	0.98	ppb	96
32) bis(2-Chloroethoxy)met...	6.824	93	4349	1.17	ppb	99
33) 2,4-Dichlorophenol	6.904	162	2740	1.02	ppb	96
34) 2,6-Dichlorophenol	7.263	162	2887	1.08	ppb	98
35) 1,3,5-Trichlorobenzene	6.535	180	3213	1.18	ppb	99
36) 1,2,4-Trichlorobenzene	7.011	180	3209	1.18	ppb	94
37) 1,2,3-Trichlorobenzene	7.375	180	3151	1.20	ppb	98
38) Naphthalene	7.086	128	11562	1.26	ppb	99
39) 4-Chloroaniline	7.263	127	4827	1.23	ppb	95
40) 2,3-Dichloroaniline	8.680	161	3369	1.09	ppb	98
41) Caprolactam	7.723	113	1151	1.10	ppb	92
42) Hexachlorobutadiene	7.423	225	1600	1.19	ppb	95
43) 4-Chloro-3-methylphenol	8.092	107	2968	1.05	ppb	94
44) 2-Methylnaphthalene	8.166	142	7472	1.19	ppb	97
45) 1-Methylnaphthalene	8.327	142	6880	1.16	ppb	100
46) Dimethylnaphthalene	9.161	156	5960	1.15	ppb	96
48) Hexachlorocyclopentadiene	8.552	237	1848	1.47	ppb	97
49) 2,4,6-Trichlorophenol	8.691	196	1909	1.01	ppb	97
50) 2,4,5-Trichlorophenol	8.744	196	1891	0.96	ppb	95
52) 2-Chloronaphthalene	8.910	162	6630	1.19	ppb	98
53) Biphenyl	8.937	154	8561	1.20	ppb	96
54) 2-Nitroaniline	9.167	65	2046	1.10	ppb	86
55) Dimethylphthalate	9.573	163	7798	1.22	ppb	97
56) Acenaphthylene	9.557	152	10284	1.12	ppb	99
57) 2,6-Dinitrotoluene	9.637	165	1273	0.85	ppb	75
58) 3-Nitroaniline	9.830	138	1997	1.05	ppb	94
59) Acenaphthene	9.857	153	7129	1.25	ppb	98
60) 2,4-Dinitrophenol	9.990	184	299	0.32	ppb	98
61) 4-Nitrophenol	10.194	109	678	0.66	ppb	# 68
62) Dibenzofuran	10.108	168	9808	1.23	ppb	92
63) 2,4-Dinitrotoluene	10.236	165	1822	0.89	ppb	88
64) 2,3,4,6-Tetrachlorophenol	10.408	232	1516	0.96	ppb	98
65) Diethylphthalate	10.702	149	7869	1.26	ppb	100
66) Fluorene	10.648	166	7116	1.13	ppb	98
67) 4-Chlorophenyl-phenyle...	10.718	204	3427	1.22	ppb	96
68) 4-Nitroaniline	10.787	138	1809	1.01	ppb	97
70) 4,6-Dinitro-2-methylph...	10.857	198	439	0.35	ppb	86
71) n-Nitrosodiphenylamine	10.921	169	5290	1.14	ppb	98
72) 1,2-Diphenylhydrazine	10.948	77	8533	1.21	ppb	95
74) 4-Bromophenyl-phenylether	11.467	248	1763	1.06	ppb	91
75) Hexachlorobenzene	11.643	284	2003	1.19	ppb	97
76) Pentachlorophenol	11.953	266	1866	1.47	ppb	98
77) Phenanthrene	12.130	178	11391	1.28	ppb	98
78) Anthracene	12.199	178	10970	1.23	ppb	99
79) Carbazole	12.504	167	10153	1.18	ppb	98
80) Di-n-butylphthalate	13.296	149	11325	1.06	ppb	98
81) Fluoranthene	13.954	202	10033	1.10	ppb	99
82) Octadecane	12.178	71	2910	1.17	ppb	86
84) Pyrene	14.253	202	10937	1.23	ppb	98

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2040.D  
Acq On : 21 Oct 2010 11:32 am  
Operator : kristis  
Sample : ic117-1  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 11:56:31 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 11:55:03 2010  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Butylbenzylphthalate	15.355	149	4686	1.04	ppb	96
87) Butyl stearate	15.473	285	998	1.72	ppb	# 13
88) Benzo[a]anthracene	15.879	228	9786	1.27	ppb	99
89) 3,3'-Dichlorobenzidine	15.922	252	3258	1.20	ppb	92
90) Chrysene	15.927	228	9844	1.42	ppb	97
91) bis(2-Ethylhexyl)phtha...	16.168	149	6541	1.07	ppb	95
93) Di-n-octylphthalate	16.890	149	11817	1.12	ppb	95
94) Benzo[b]fluoranthene	17.141	252	8733	0.83	ppb	97
95) Benzo[k]fluoranthene	17.174	252	9441	2.27	ppb	98
96) Benzo[a]pyrene	17.478	252	7937	1.12	ppb	98
97) Indeno[1,2,3-cd]pyrene	18.618	276	8594	0.98	ppb	93
98) Dibenz(a,h)acridine	18.398	279	6040	0.95	ppb	98
99) Dibenz[a,h]anthracene	18.650	278	7240	1.01	ppb	98
100) 7,12-Dimethylbenz(a)an...	17.174	256	2895	0.97	ppb	95
101) Benzo[g,h,i]perylene	18.901	276	7828	1.08	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

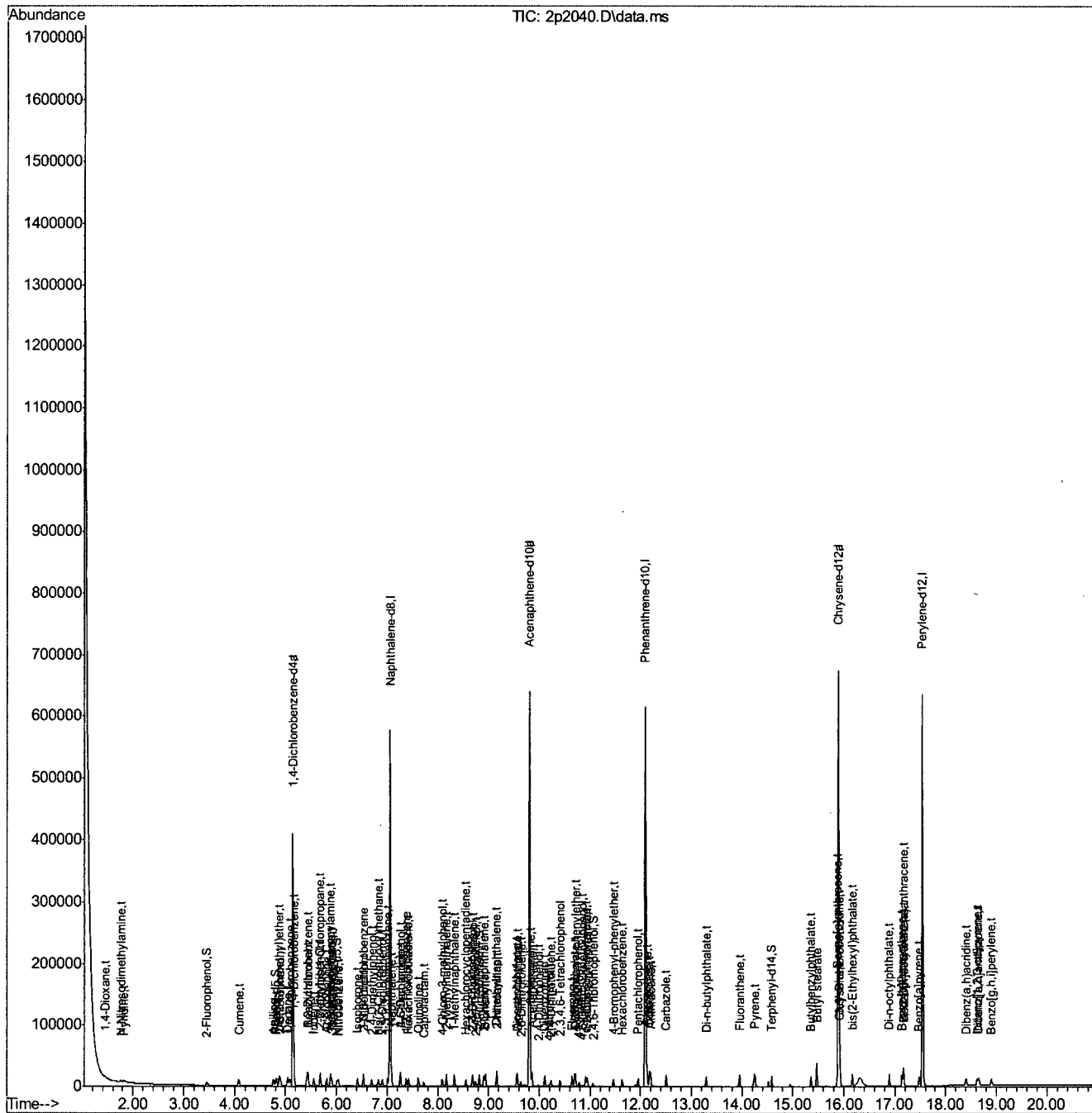
8.6.2  
8



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2040.D  
 Acq On : 21 Oct 2010 11:32 am  
 Operator : kristis  
 Sample : ic117-1  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 11:56:31 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 11:55:03 2010  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2041.D  
 Acq On : 21 Oct 2010 12:02 pm  
 Operator : kristis  
 Sample : ic117-80  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 12:26:41 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 12:25:17 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.150	152	72998	40.00	ppb	0.00
24) Naphthalene-d8	7.070	136	278885	40.00	ppb	0.00
47) Acenaphthene-d10	9.819	164	155031	40.00	ppb	0.00
69) Phenanthrene-d10	12.114	188	242130	40.00	ppb	0.00
83) Chrysene-d12	15.911	240	257903	40.00	ppb	0.00
92) Perylene-d12	17.559	264	214403	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.150	152	72998	40.00	ppb	0.00
104) Acenaphthene-d10a	9.819	164	155031	40.00	ppb	0.00
106) Chrysene-d12a	15.911	240	257903	40.00	ppb	0.00
108) Acenaphthene-d10b	9.819	164	155031	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.460	112	193666	77.20	ppb	0.00
Spiked Amount 50.000			Recovery	=	154.40%	
8) Phenol-d5	4.829	99	257319	76.81	ppb	0.00
Spiked Amount 50.000			Recovery	=	153.62%	
25) Nitrobenzene-d5	6.032	82	226625	76.90	ppb	0.00
Spiked Amount 50.000			Recovery	=	153.80%	
51) 2-Fluorobiphenyl	8.835	172	426368	75.97	ppb	0.00
Spiked Amount 50.000			Recovery	=	151.94%	
73) 2,4,6-Tribromophenol	11.081	330	49359	84.15	ppb	0.00
Spiked Amount 50.000			Recovery	=	168.30%	
85) Terphenyl-d14	14.601	244	366014	78.14	ppb	0.00
Spiked Amount 50.000			Recovery	=	156.28%	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	1.427	88	70526	82.64	ppb	100
3) Pyridine	1.737	79	207028	72.93	ppb	98
4) N-Nitrosodimethylamine	1.737	74	121583	74.65	ppb	96
6) Indene	5.562	116	280921	76.77	ppb	98
7) Cumene	4.080	105	373555	76.10	ppb	99
9) Phenol	4.845	94	270966	76.81	ppb	93
10) Aniline	4.765	93	234066	60.19	ppb	96
11) bis(2-Chloroethyl)ether	4.893	93	206262	75.45	ppb	99
12) 2-Chlorophenol	4.909	128	220597	78.70	ppb	98
13) Decane	5.048	57	198350	77.72	ppb	98
14) 1,3-Dichlorobenzene	5.096	146	224049	76.29	ppb	100
15) 1,4-Dichlorobenzene	5.177	146	229574	76.80	ppb	99
16) Benzyl alcohol	5.460	108	146040	78.59	ppb	99
17) 1,2-Dichlorobenzene	5.444	146	223491	77.50	ppb	99
18) Acetophenone	5.829	105	270304	75.33	ppb	98
19) 2-Methylphenol	5.701	108	187215	78.05	ppb	100
20) 2,2'-oxybis(1-Chloropr...	5.690	121	70500	76.74	ppb	93
21) 3&4-Methylphenol	5.931	108	205419	79.72	ppb	100
22) n-Nitroso-di-n-propyla...	5.909	70	143931	77.62	ppb	96
23) Hexachloroethane	5.893	201	71387	79.38	ppb	99
26) Nitrobenzene	6.059	123	106597	77.47	ppb	96
27) Quinoline	7.653	129	353428	70.93	ppb	99
28) Isophorone	6.439	82	359533	72.65	ppb	97

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2041.D  
 Acq On : 21 Oct 2010 12:02 pm  
 Operator : kristis  
 Sample : ic117-80  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 12:26:41 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 12:25:17 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	6.546	139	119145	86.84	ppb	97
30) 2,4-Dimethylphenol	6.717	107	194391	80.74	ppb	99
31) Benzoic acid	7.065	105	171621m	82.82	ppb	
32) bis(2-Chloroethoxy)met...	6.845	93	237778	75.46	ppb	100
33) 2,4-Dichlorophenol	6.926	162	169603	79.84	ppb	99
34) 2,6-Dichlorophenol	7.273	162	171085	78.80	ppb	100
35) 1,3,5-Trichlorobenzene	6.546	180	179126	77.18	ppb	99
36) 1,2,4-Trichlorobenzene	7.022	180	175829	75.90	ppb	99
37) 1,2,3-Trichlorobenzene	7.386	180	168274	74.44	ppb	100
38) Naphthalene	7.102	128	604479	74.57	ppb	99
39) 4-Chloroaniline	7.279	127	259500	75.85	ppb	99
40) 2,3-Dichloroaniline	8.696	161	196149	77.64	ppb	100
41) Caprolactam	7.867	113	64989m	75.66	ppb	
42) Hexachlorobutadiene	7.434	225	87184	75.64	ppb	100
43) 4-Chloro-3-methylphenol	8.124	107	176712	77.97	ppb	97
44) 2-Methylnaphthalene	8.182	142	418827	77.92	ppb	98
45) 1-Methylnaphthalene	8.343	142	385839	77.20	ppb	98
46) Dimethylnaphthalene	9.172	156	340513	78.22	ppb	100
48) Hexachlorocyclopentadiene	8.562	237	162832	192.77	ppb	99
49) 2,4,6-Trichlorophenol	8.712	196	119734	81.41	ppb	98
50) 2,4,5-Trichlorophenol	8.771	196	122445	82.11	ppb	99
52) 2-Chloronaphthalene	8.926	162	367381	77.64	ppb	99
53) Biphenyl	8.953	154	476038	78.46	ppb	99
54) 2-Nitroaniline	9.193	65	121568	80.26	ppb	100
55) Dimethylphthalate	9.595	163	404221	73.64	ppb	100
56) Acenaphthylene	9.568	152	602323	79.98	ppb	100
57) 2,6-Dinitrotoluene	9.664	165	92934	86.52	ppb	95
58) 3-Nitroaniline	9.857	138	122430	81.14	ppb	94
59) Acenaphthene	9.873	153	385221	77.47	ppb	100
60) 2,4-Dinitrophenol	10.017	184	106377	254.58	ppb	97
61) 4-Nitrophenol	10.226	109	65381	98.82	ppb	96
62) Dibenzofuran	10.129	168	512408	74.50	ppb	92
63) 2,4-Dinitrotoluene	10.263	165	126247	84.14	ppb	99
64) 2,3,4,6-Tetrachlorophenol	10.429	232	98446	81.97	ppb	98
65) Diethylphthalate	10.728	149	425789	78.01	ppb	100
66) Fluorene	10.670	166	415085	79.82	ppb	100
67) 4-Chlorophenyl-phenyle...	10.728	204	190365	78.81	ppb	100
68) 4-Nitroaniline	10.851	138	113102	81.13	ppb	98
70) 4,6-Dinitro-2-methylph...	10.900	198	75969	115.97	ppb	98
71) n-Nitrosodiphenylamine	10.948	169	301354	79.08	ppb	99
72) 1,2-Diphenylhydrazine	10.975	77	471238	78.81	ppb	99
74) 4-Bromophenyl-phenylether	11.477	248	104421	79.38	ppb	96
75) Hexachlorobenzene	11.654	284	105599	74.74	ppb	96
76) Pentachlorophenol	11.975	266	158664	187.59	ppb	99
77) Phenanthrene	12.151	178	577161	74.04	ppb	99
78) Anthracene	12.221	178	589931	77.44	ppb	100
79) Carbazole	12.531	167	547515	76.19	ppb	100
80) Di-n-butylphthalate	13.307	149	697895	82.79	ppb	100
81) Fluoranthene	13.970	202	589005	80.03	ppb	98
82) Octadecane	12.194	71	166728	80.44	ppb	96

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2041.D  
Acq On : 21 Oct 2010 12:02 pm  
Operator : kristis  
Sample : ic117-80  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 12:26:41 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 12:25:17 2010  
Response via : Initial Calibration

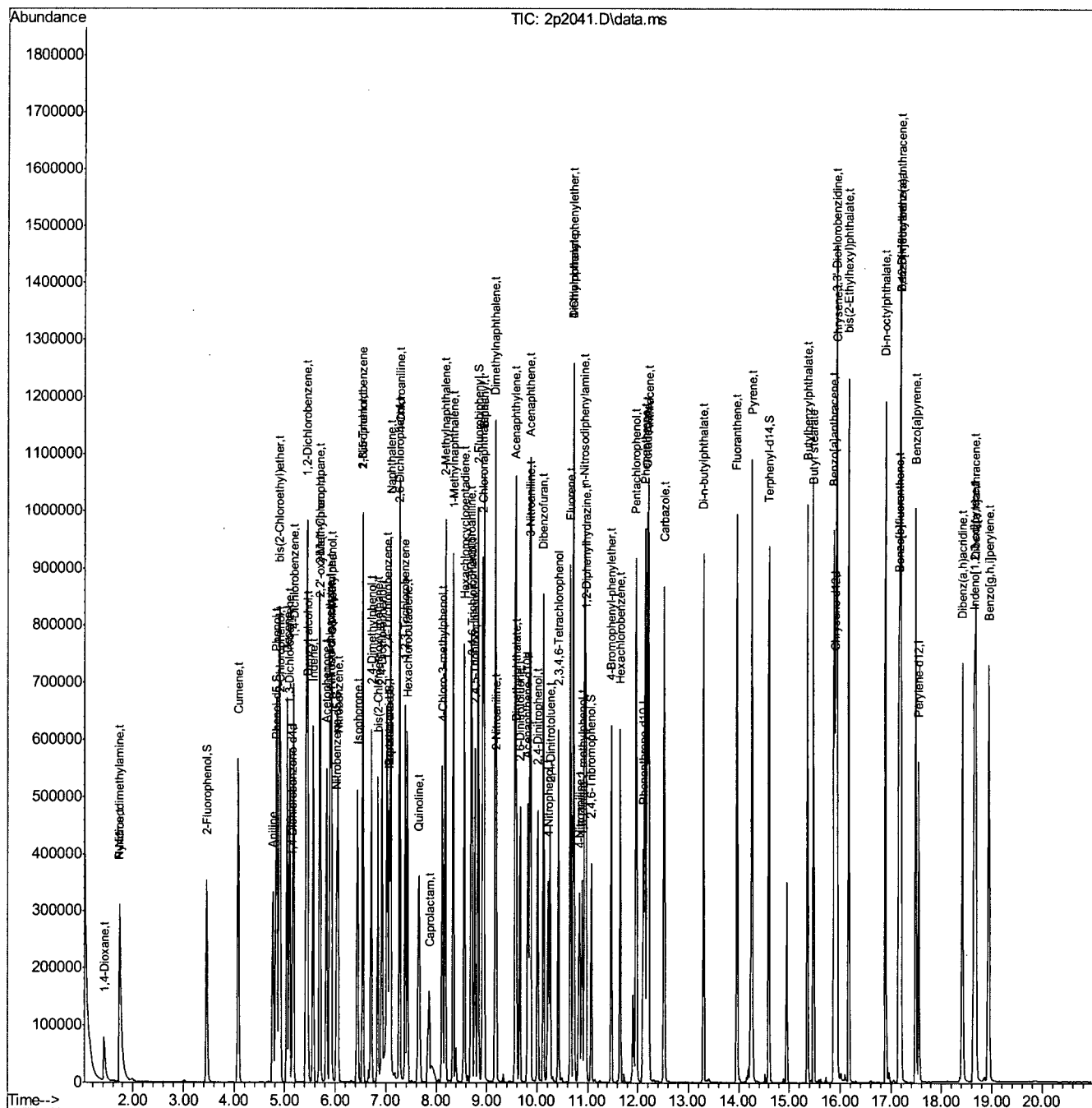
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	14.269	202	632961	76.39	ppb	100
86) Butylbenzylphthalate	15.366	149	319665	83.22	ppb	99
87) Butyl stearate	15.483	285	39738	60.23	ppb #	79
88) Benzo[a]anthracene	15.890	228	547646	74.89	ppb	100
89) 3,3'-Dichlorobenzidine	15.938	252	199476	79.97	ppb	99
90) Chrysene	15.949	228	516953	73.70	ppb	99
91) bis(2-Ethylhexyl)phtha...	16.179	149	437765	82.77	ppb	100
93) Di-n-octylphthalate	16.906	149	741485	83.23	ppb	99
94) Benzo[b]fluoranthene	17.179	252	606538	79.25	ppb	99
95) Benzo[k]fluoranthene	17.211	252	443944	82.02	ppb	94
96) Benzo[a]pyrene	17.505	252	488144	81.53	ppb	99
97) Indeno[1,2,3-cd]pyrene	18.660	276	591321	85.44	ppb	96
98) Dibenz(a,h)acridine	18.425	279	422159	85.50	ppb	99
99) Dibenz[a,h]anthracene	18.687	278	484227	84.53	ppb	99
100) 7,12-Dimethylbenz(a)an...	17.211	256	216539	92.28	ppb	99
101) Benzo[g,h,i]perylene	18.949	276	483904	80.51	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2041.D  
Acq On : 21 Oct 2010 12:02 pm  
Operator : kristis  
Sample : ic117-80  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 12:26:41 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 12:25:17 2010  
Response via : Initial Calibration



M2P117.M Thu Oct 21 21:28:47 2010 RPT1

Page: 4

8.6.3

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** E2P117-IC117      **Method:** SW846 8270C  
**Lab FileID:** 2P2041.D      **Analyst approved:** 10/25/10 15:16 Krutika Patel  
**Injection Time:** 10/21/10 12:02      **Supervisor approved:** 10/25/10 15:58 Kristi Schollenberger

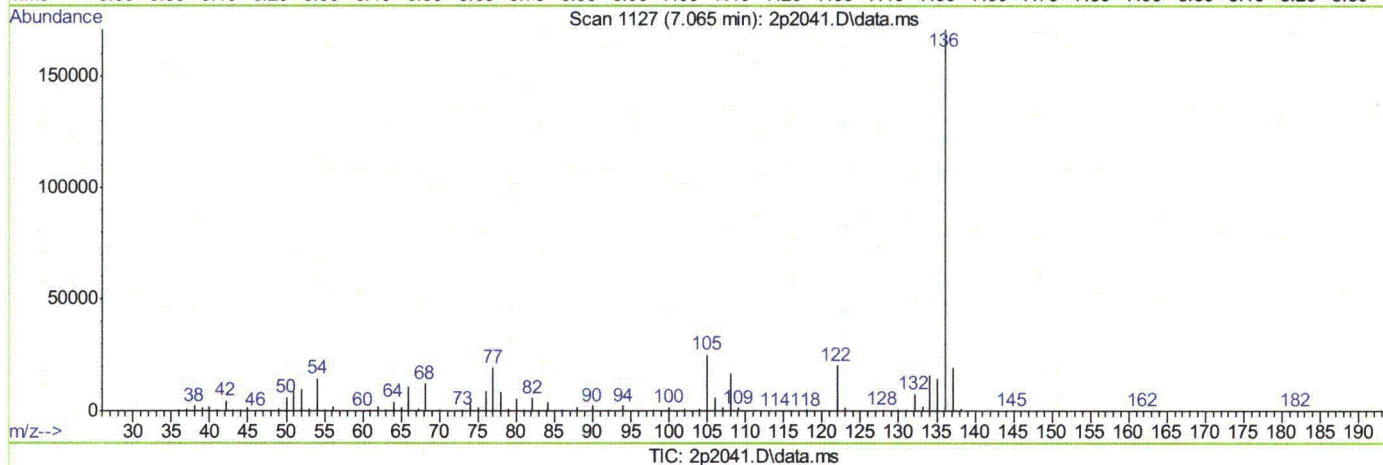
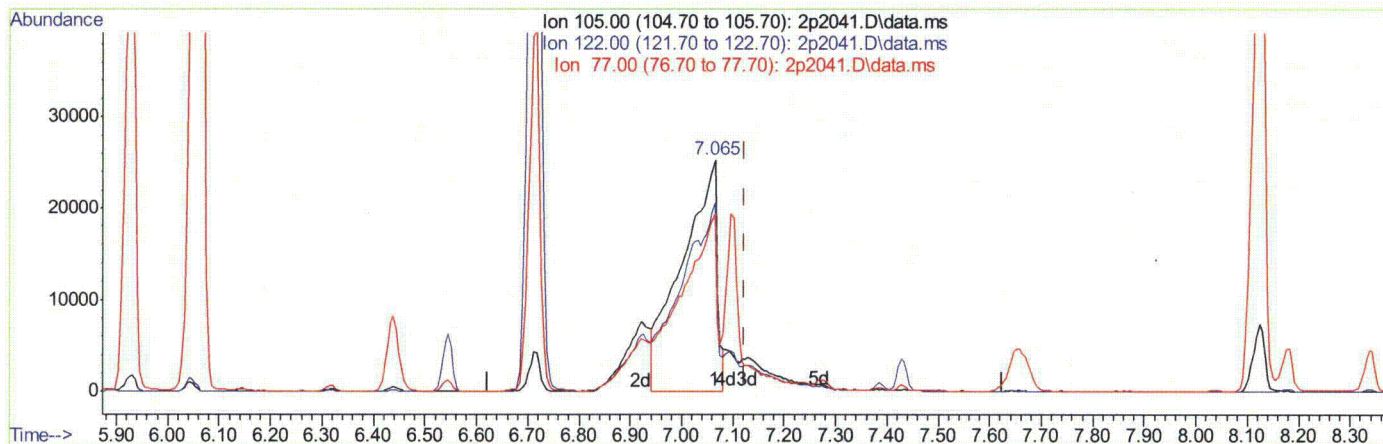
Parameter	CAS	Sig#	R. T. (min.)	Reason
Benzoic Acid	65-85-0		7.06	Split peak
Caprolactam	105-60-2		7.87	Split peak

8.6.3.1  
8

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2041.D  
Acq On : 21 Oct 2010 12:02 pm  
Operator : kristis  
Sample : ic117-80  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 12:22:52 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 11:56:41 2010  
Response via : Initial Calibration



(31) Benzoic acid (t)

7.065min (-0.059) 57.41ppb

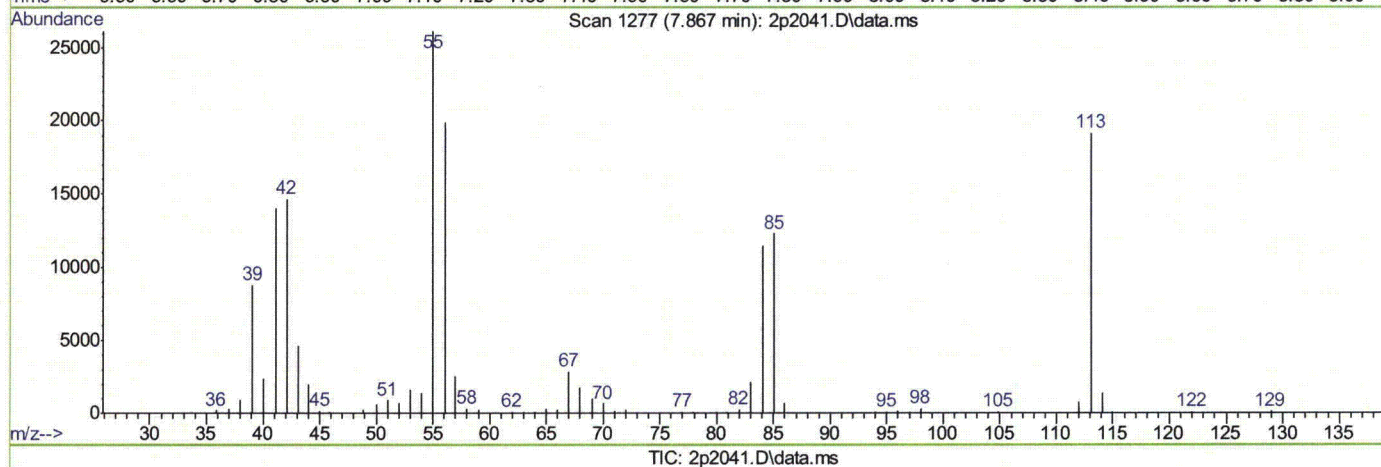
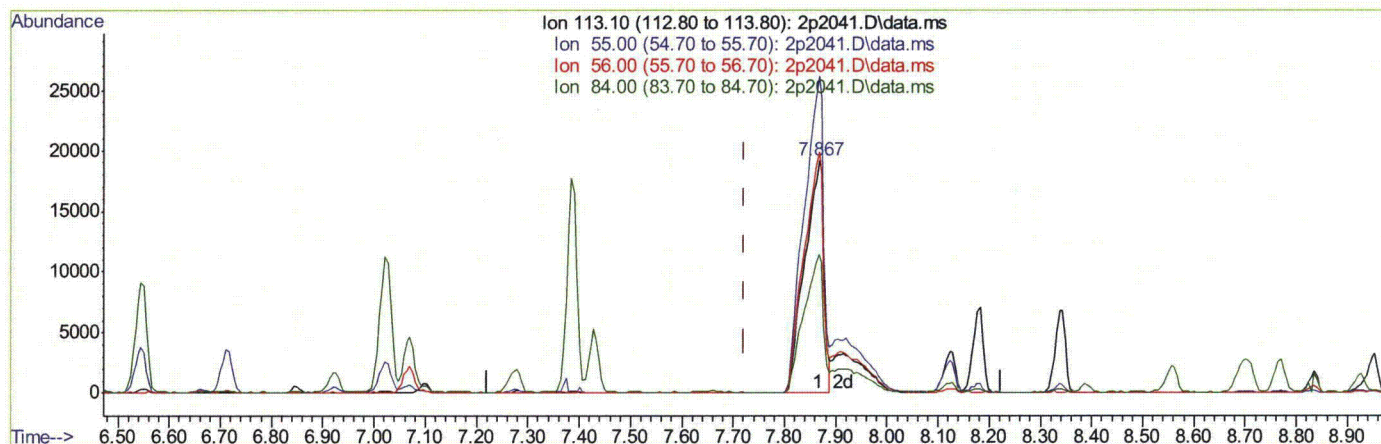
response 118962

Ion	Exp%	Act%
105.00	100	100
122.00	80.60	81.29
77.00	75.50	69.04
0.00	0.00	0.00

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2041.D  
Acq On : 21 Oct 2010 12:02 pm  
Operator : kristis  
Sample : ic117-80  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 12:22:52 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 11:56:41 2010  
Response via : Initial Calibration



(41) Caprolactam (t)

7.867min (+0.144) 58.62ppb

response 50353

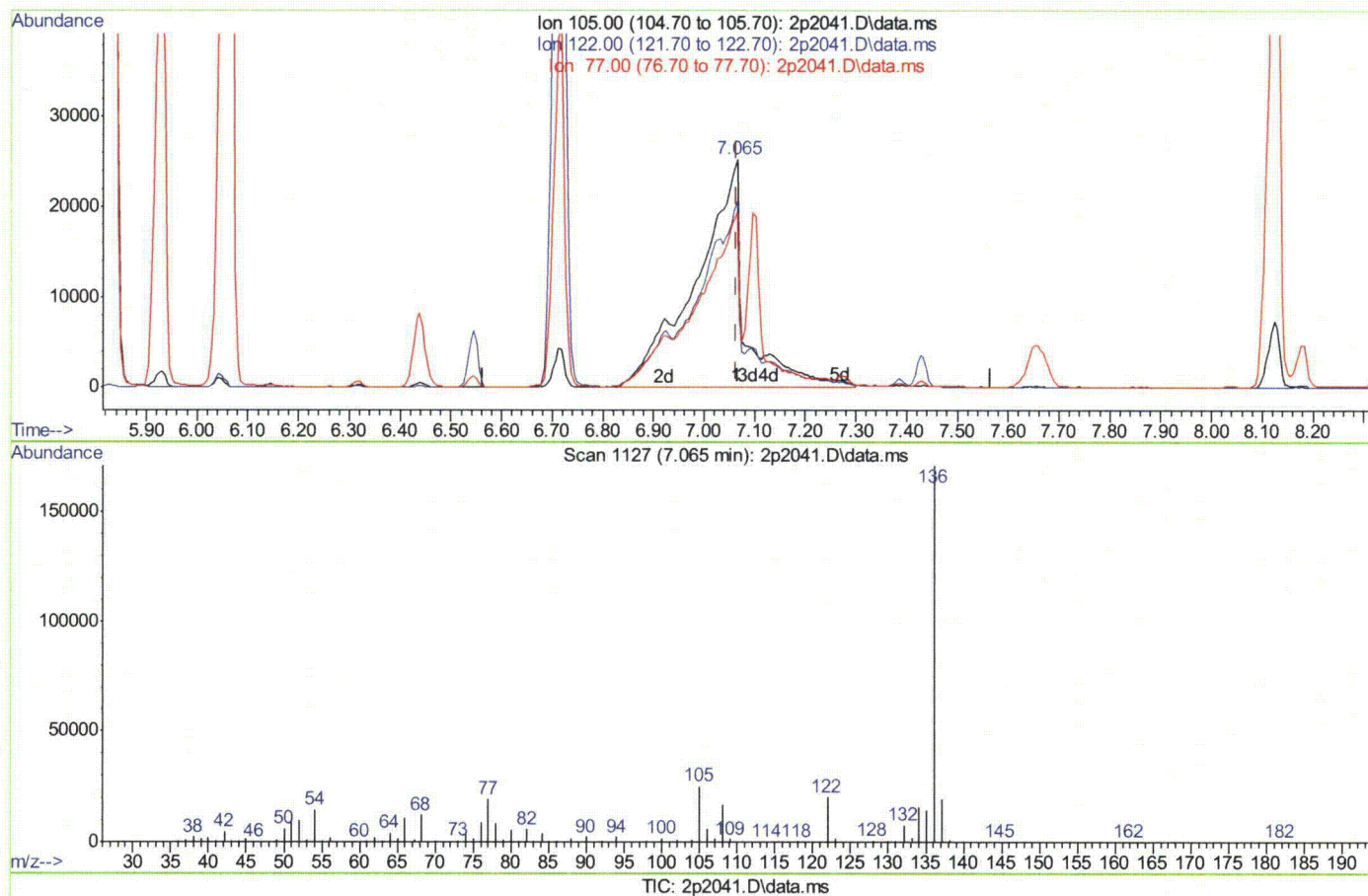
Ion	Exp%	Act%
113.10	100	100
55.00	131.00	135.89
56.00	99.70	103.30
84.00	58.80	59.48



## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2041.D  
Acq On : 21 Oct 2010 12:02 pm  
Operator : kristis  
Sample : ic117-80  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 12:26:41 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 12:25:17 2010  
Response via : Initial Calibration



(31) Benzoic acid (t)

7.065min (0.000) 82.82ppb m

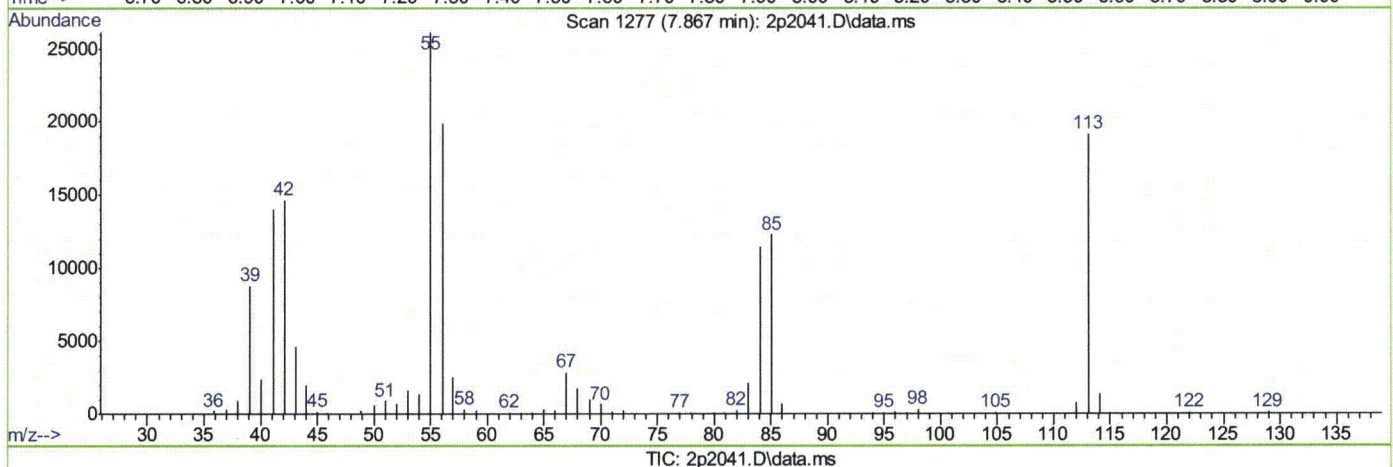
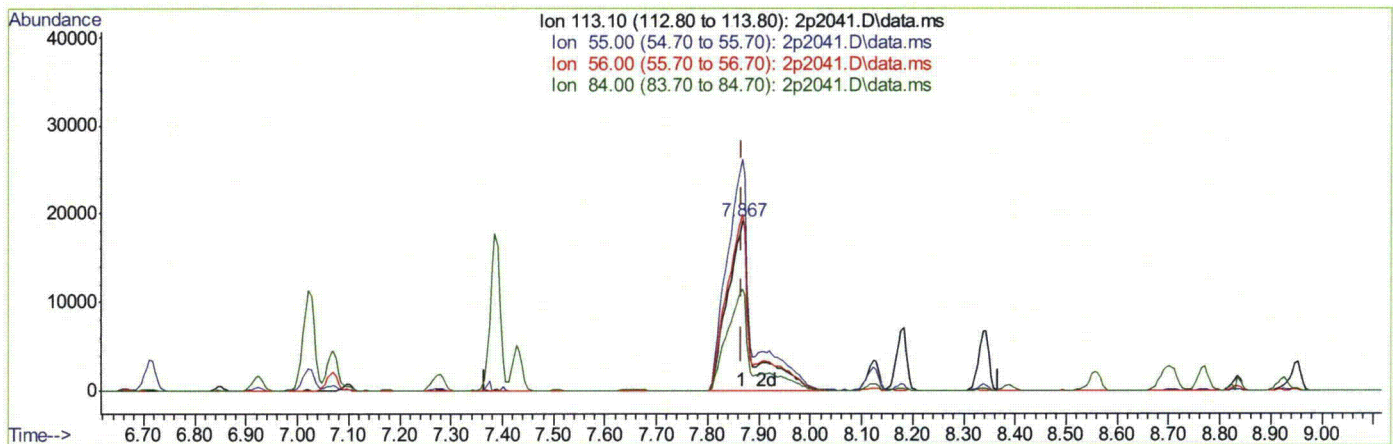
response 171621

Ion	Exp%	Act%
105.00	100	100
122.00	80.60	81.24
77.00	75.50	76.62
0.00	0.00	0.00

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2041.D  
Acq On : 21 Oct 2010 12:02 pm  
Operator : kristis  
Sample : ic117-80  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 12:26:41 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 12:25:17 2010  
Response via : Initial Calibration



(41) Caprolactam (t)

7.867min (0.000) 75.66ppb m

response 64989

Ion	Exp%	Act%
113.10	100	100
55.00	131.00	136.68
56.00	99.70	103.88
84.00	58.80	59.90

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2042.D  
 Acq On : 21 Oct 2010 12:28 pm  
 Operator : kristis  
 Sample : ic117-2  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 13:06:17 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 13:04:09 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.150	152	71766	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	267481	40.00	ppb	0.00
47) Acenaphthene-d10	9.814	164	150219	40.00	ppb	0.00
69) Phenanthrene-d10	12.103	188	234926	40.00	ppb	0.00
83) Chrysene-d12	15.901	240	229861	40.00	ppb	0.00
92) Perylene-d12	17.553	264	200754	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.150	152	71766	40.00	ppb	0.00
104) Acenaphthene-d10a	9.814	164	150219	40.00	ppb	0.00
106) Chrysene-d12a	15.901	240	229861	40.00	ppb	0.00
108) Acenaphthene-d10b	9.814	164	150219	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.454	112	4441	1.82	ppb	0.00
Spiked Amount 50.000			Recovery =	3.64%		
8) Phenol-d5	4.808	99	5744	1.77	ppb	0.00
Spiked Amount 50.000			Recovery =	3.54%		
25) Nitrobenzene-d5	6.016	82	5293	1.90	ppb	0.00
Spiked Amount 50.000			Recovery =	3.80%		
51) 2-Fluorobiphenyl	8.819	172	10246	1.92	ppb	0.00
Spiked Amount 50.000			Recovery =	3.84%		
73) 2,4,6-Tribromophenol	11.065	330	878	1.52	ppb	0.00
Spiked Amount 50.000			Recovery =	3.04%		
85) Terphenyl-d14	14.585	244	7815	1.89	ppb	0.00
Spiked Amount 50.000			Recovery =	3.78%		
Target Compounds						
2) 1,4-Dioxane	1.449	88	1628	1.92	ppb	Qvalue 95
3) Pyridine	1.812	79	5352m	1.98	ppb	
4) N-Nitrosodimethylamine	1.759	74	2975	1.90	ppb	# 73
6) Indene	5.556	116	6708	1.89	ppb	98
7) Cumene	4.080	105	9400	1.98	ppb	97
9) Phenol	4.824	94	6144	1.80	ppb	88
10) Aniline	4.765	93	7554	2.15	ppb	97
11) bis(2-Chloroethyl)ether	4.877	93	5055	1.92	ppb	98
12) 2-Chlorophenol	4.898	128	5020	1.83	ppb	96
13) Decane	5.043	57	5067	2.04	ppb	94
14) 1,3-Dichlorobenzene	5.086	146	5610	1.97	ppb	96
15) 1,4-Dichlorobenzene	5.171	146	5664	1.95	ppb	95
16) Benzyl alcohol	5.444	108	3153	1.74	ppb	94
17) 1,2-Dichlorobenzene	5.439	146	5426	1.93	ppb	97
18) Acetophenone	5.808	105	6672	1.93	ppb	96
19) 2-Methylphenol	5.685	108	4297	1.84	ppb	97
20) 2,2'-oxybis(1-Chloropr...	5.685	121	1703	1.91	ppb	# 69
21) 3&4-Methylphenol	5.909	108	4445	1.76	ppb	100
22) n-Nitroso-di-n-propyla...	5.883	70	3451	1.91	ppb	85
23) Hexachloroethane	5.888	201	1680	1.91	ppb	96
26) Nitrobenzene	6.038	123	2395	1.83	ppb	90
27) Quinoline	7.616	129	8699	1.89	ppb	99
28) Isophorone	6.417	82	9230	2.01	ppb	94

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2042.D  
 Acq On : 21 Oct 2010 12:28 pm  
 Operator : kristis  
 Sample : ic117-2  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 13:06:17 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 13:04:09 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	6.535	139	2223	1.64	ppb	75
30) 2,4-Dimethylphenol	6.696	107	3973	1.72	ppb	95
31) Benzoic acid	6.867	105	1766	0.87	ppb	76
32) bis(2-Chloroethoxy)met...	6.829	93	5697	1.92	ppb	98
33) 2,4-Dichlorophenol	6.910	162	3560	1.75	ppb	99
34) 2,6-Dichlorophenol	7.263	162	3700	1.79	ppb	98
35) 1,3,5-Trichlorobenzene	6.540	180	4435	2.02	ppb	99
36) 1,2,4-Trichlorobenzene	7.016	180	4201	1.92	ppb	98
37) 1,2,3-Trichlorobenzene	7.380	180	4092	1.93	ppb	98
38) Naphthalene	7.086	128	15212	2.00	ppb	99
39) 4-Chloroaniline	7.263	127	6219	1.93	ppb	94
40) 2,3-Dichloroaniline	8.680	161	4401	1.83	ppb	98
41) Caprolactam	7.723	113	1372	1.70	ppb	94
42) Hexachlorobutadiene	7.428	225	2178	2.01	ppb	95
43) 4-Chloro-3-methylphenol	8.092	107	3719	1.73	ppb	89
44) 2-Methylnaphthalene	8.172	142	9863	1.93	ppb	95
45) 1-Methylnaphthalene	8.327	142	8805	1.86	ppb	96
46) Dimethylnaphthalene	9.161	156	7583	1.83	ppb	97
48) Hexachlorocyclopentadiene	8.557	237	2520	2.88	ppb	91
49) 2,4,6-Trichlorophenol	8.691	196	2447	1.71	ppb	95
50) 2,4,5-Trichlorophenol	8.744	196	2191	1.50	ppb	95
52) 2-Chloronaphthalene	8.910	162	8708	1.92	ppb	100
53) Biphenyl	8.937	154	11251	1.93	ppb	98
54) 2-Nitroaniline	9.167	65	2621	1.78	ppb	# 77
55) Dimethylphthalate	9.568	163	9753	1.88	ppb	99
56) Acenaphthylene	9.557	152	13114	1.80	ppb	99
57) 2,6-Dinitrotoluene	9.637	165	1617	1.51	ppb	82
58) 3-Nitroaniline	9.830	138	2418	1.65	ppb	91
59) Acenaphthene	9.857	153	9079	1.90	ppb	98
60) 2,4-Dinitrophenol	9.985	184	336	0.69	ppb	85
61) 4-Nitrophenol	10.199	109	737	1.07	ppb	# 74
62) Dibenzofuran	10.113	168	12397	1.90	ppb	91
63) 2,4-Dinitrotoluene	10.231	165	2282	1.54	ppb	86
64) 2,3,4,6-Tetrachlorophenol	10.413	232	1857	1.58	ppb	97
65) Diethylphthalate	10.702	149	10197	1.94	ppb	97
66) Fluorene	10.648	166	9120	1.81	ppb	100
67) 4-Chlorophenyl-phenyle...	10.718	204	4440	1.91	ppb	94
68) 4-Nitroaniline	10.787	138	2151	1.58	ppb	87
70) 4,6-Dinitro-2-methylph...	10.857	198	522	0.71	ppb	90
71) n-Nitrosodiphenylamine	10.921	169	6721	1.82	ppb	97
72) 1,2-Diphenylhydrazine	10.953	77	11212	1.94	ppb	95
74) 4-Bromophenyl-phenylether	11.467	248	2228	1.75	ppb	87
75) Hexachlorobenzene	11.638	284	2500	1.86	ppb	89
76) Pentachlorophenol	11.953	266	2217	2.55	ppb	97
77) Phenanthrene	12.130	178	14298	1.94	ppb	99
78) Anthracene	12.199	178	13840	1.89	ppb	100
79) Carbazole	12.510	167	12528	1.83	ppb	98
80) Di-n-butylphthalate	13.296	149	14274	1.73	ppb	99
81) Fluoranthene	13.954	202	12623	1.77	ppb	98
82) Octadecane	12.183	71	3662	1.82	ppb	# 83

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2042.D  
Acq On : 21 Oct 2010 12:28 pm  
Operator : kristis  
Sample : ic117-2  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 13:06:17 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 13:04:09 2010  
Response via : Initial Calibration

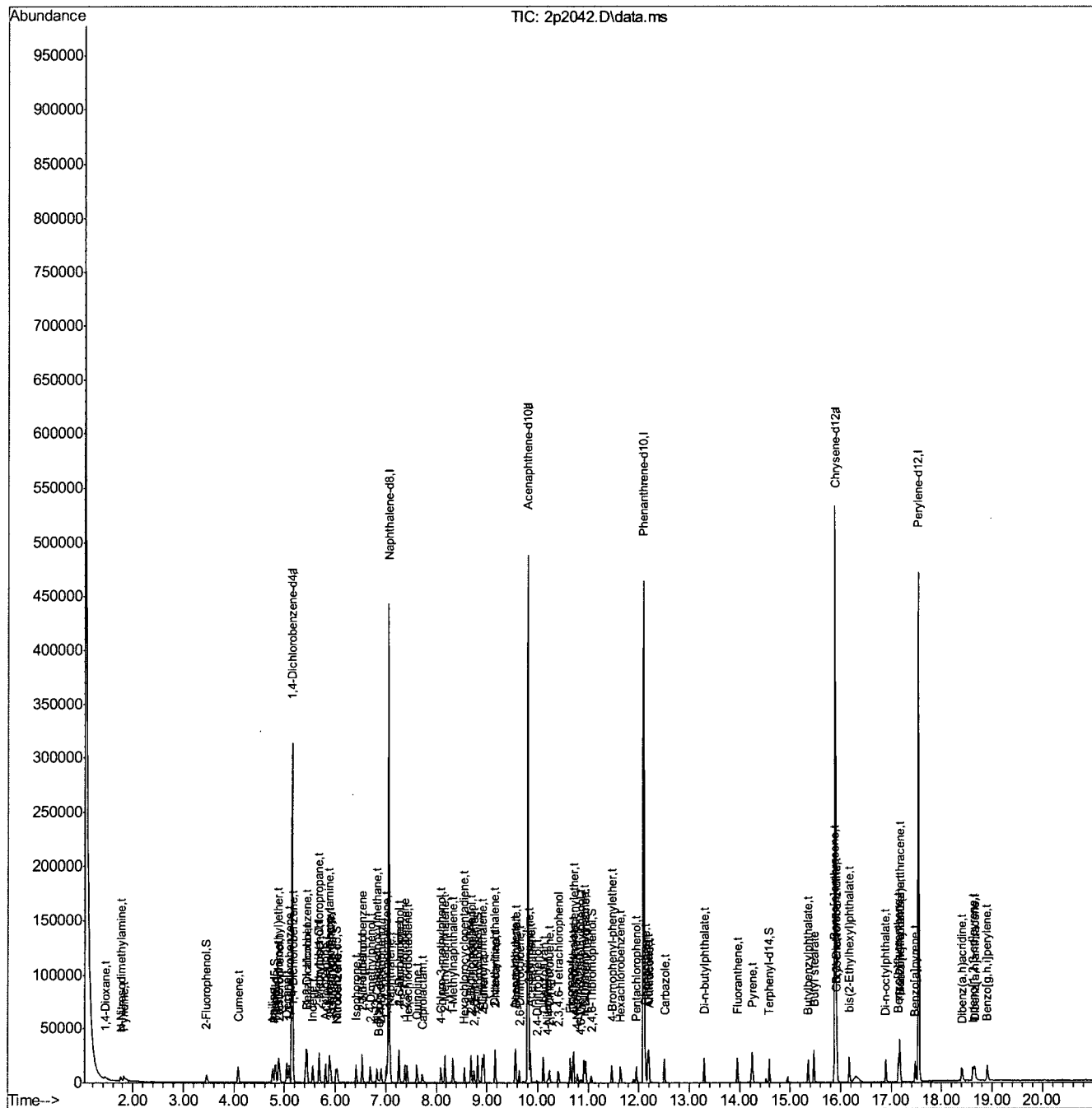
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	14.253	202	13961	1.92	ppb	99
86) Butylbenzylphthalate	15.355	149	5706	1.64	ppb	93
87) Butyl stearate	15.473	285	784	1.45	ppb #	4
88) Benzo[a]anthracene	15.879	228	11989	1.88	ppb	98
89) 3,3'-Dichlorobenzidine	15.922	252	3978	1.79	ppb	98
90) Chrysene	15.927	228	12147	2.00	ppb	97
91) bis(2-Ethylhexyl)phtha...	16.173	149	8090	1.70	ppb	97
93) Di-n-octylphthalate	16.895	149	13667	1.62	ppb	95
94) Benzo[b]fluoranthene	17.147	252	9865	1.38	ppb	98
95) Benzo[k]fluoranthene	17.174	252	12637	2.47	ppb	94
96) Benzo[a]pyrene	17.478	252	9617	1.70	ppb	96
97) Indeno[1,2,3-cd]pyrene	18.623	276	10864	1.64	ppb	96
98) Dibenz(a,h)acridine	18.404	279	7355	1.56	ppb	97
99) Dibenz[a,h]anthracene	18.655	278	8761	1.60	ppb	98
100) 7,12-Dimethylbenz(a)an...	17.179	256	3741	1.62	ppb	96
101) Benzo[g,h,i]perylene	18.907	276	9432	1.67	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2042.D  
 Acq On : 21 Oct 2010 12:28 pm  
 Operator : kristis  
 Sample : ic117-2  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 13:06:17 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 13:04:09 2010  
 Response via : Initial Calibration



## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** E2P117-IC117      **Method:** SW846 8270C  
**Lab FileID:** 2P2042.D      **Analyst approved:** 10/25/10 15:16 Krutika Patel  
**Injection Time:** 10/21/10 12:28      **Supervisor approved:** 10/25/10 15:58 Kristi Schollenberger

Parameter	CAS	Sig#	R. T. (min.)	Reason
Pyridine	110-86-1		1.81	Split peak

8.6.4.1

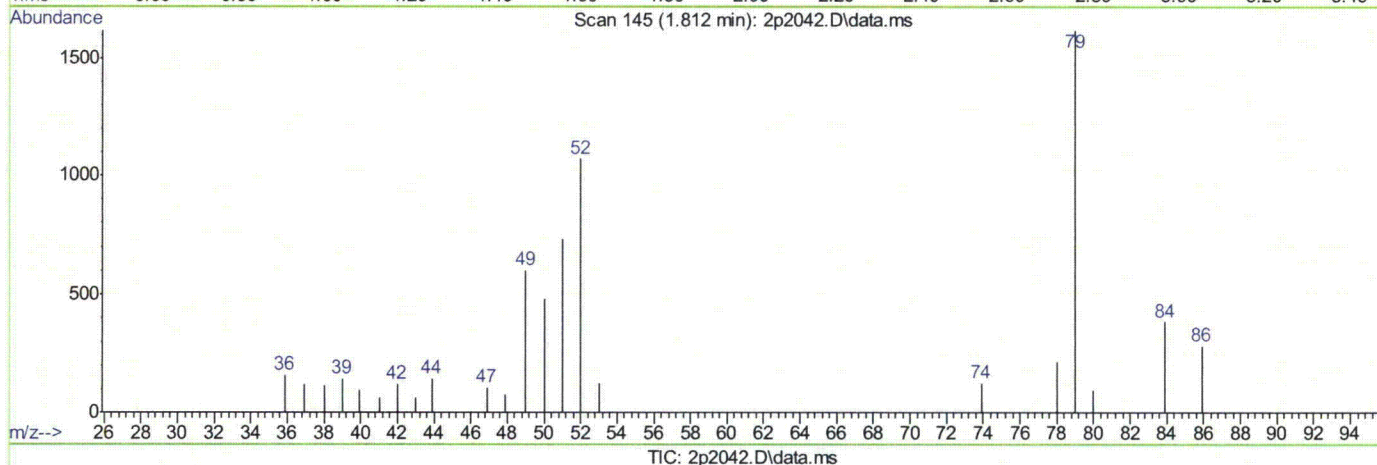
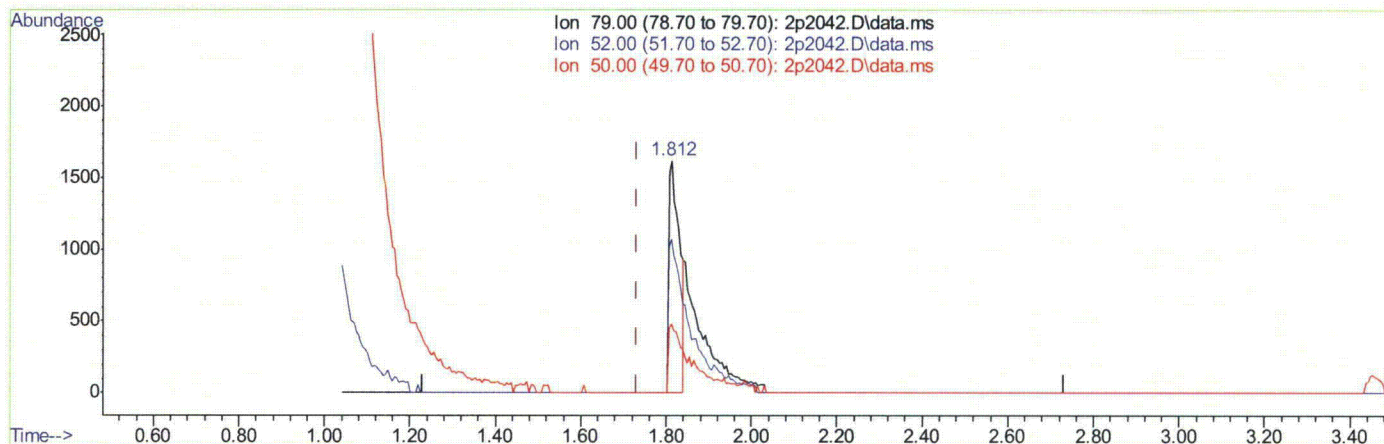
8



## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2042.D  
Acq On : 21 Oct 2010 12:28 pm  
Operator : kristis  
Sample : ic117-2  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 12:48:47 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 12:28:23 2010  
Response via : Initial Calibration



(3) Pyridine (t)

1.812min (+0.080) 1.04ppb

response 2808

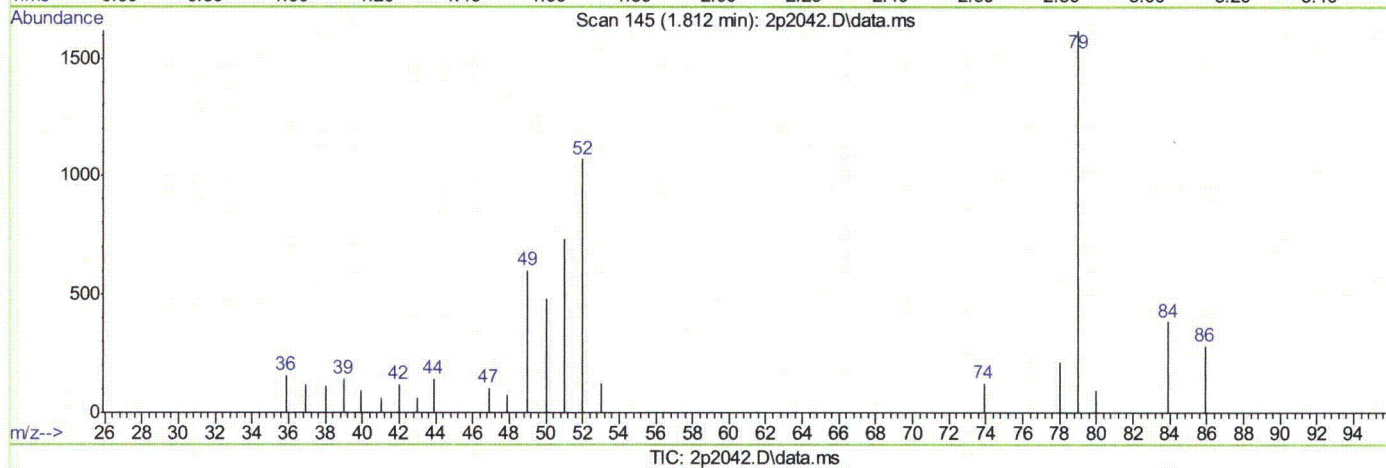
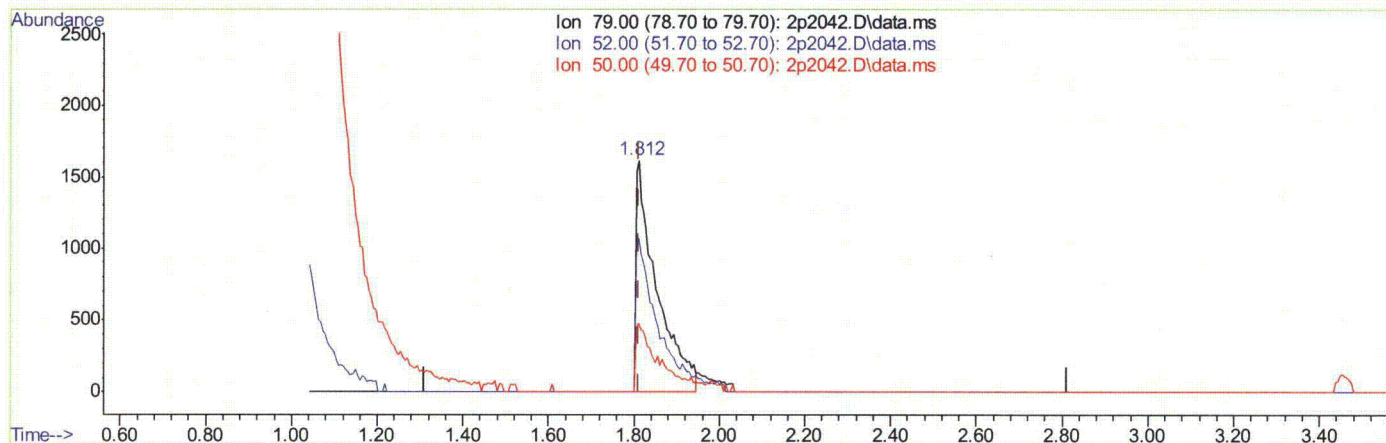
Ion	Exp%	Act%
79.00	100	100
52.00	63.80	65.86
50.00	26.00	28.26
0.00	0.00	0.00



## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2042.D  
Acq On : 21 Oct 2010 12:28 pm  
Operator : kristis  
Sample : ic117-2  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 13:06:17 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 13:04:09 2010  
Response via : Initial Calibration



(3) Pyridine (t)

1.812min (0.000) 1.98ppb m

response 5352

Ion	Exp%	Act%
79.00	100	100
52.00	63.80	66.19
50.00	26.00	29.73
0.00	0.00	0.00

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2043.D  
 Acq On : 21 Oct 2010 12:54 pm  
 Operator : kristis  
 Sample : ic117-50  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 13:32:59 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 13:31:40 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.150	152	72572	40.00	ppb	0.00
24) Naphthalene-d8	7.065	136	271426	40.00	ppb	0.00
47) Acenaphthene-d10	9.819	164	153575	40.00	ppb	0.00
69) Phenanthrene-d10	12.109	188	239828	40.00	ppb	0.00
83) Chrysene-d12	15.906	240	248977	40.00	ppb	0.00
92) Perylene-d12	17.559	264	205321	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.150	152	72572	40.00	ppb	0.00
104) Acenaphthene-d10a	9.819	164	153575	40.00	ppb	0.00
106) Chrysene-d12a	15.906	240	248977	40.00	ppb	0.00
108) Acenaphthene-d10b	9.819	164	153575	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.460	112	112830	46.82	ppb	0.00
Spiked Amount 50.000			Recovery	=	93.64%	
8) Phenol-d5	4.824	99	149051	46.71	ppb	0.00
Spiked Amount 50.000			Recovery	=	93.42%	
25) Nitrobenzene-d5	6.027	82	132931	47.57	ppb	0.00
Spiked Amount 50.000			Recovery	=	95.14%	
51) 2-Fluorobiphenyl	8.830	172	253045	46.78	ppb	0.00
Spiked Amount 50.000			Recovery	=	93.56%	
73) 2,4,6-Tribromophenol	11.076	330	27966	50.36	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.72%	
85) Terphenyl-d14	14.596	244	213878	48.35	ppb	0.00
Spiked Amount 50.000			Recovery	=	96.70%	
Target Compounds						
2) 1,4-Dioxane	1.438	88	43434	51.15	ppb	Qvalue 100
3) Pyridine	1.748	79	121898	44.64	ppb	98
4) N-Nitrosodimethylamine	1.743	74	72515	46.38	ppb	89
6) Indene	5.562	116	164971	46.61	ppb	99
7) Cumene	4.086	105	226320	47.26	ppb	99
9) Phenol	4.840	94	157365	46.67	ppb	91
10) Aniline	4.765	93	144457	39.96	ppb	95
11) bis(2-Chloroethyl)ether	4.888	93	123051	46.63	ppb	100
12) 2-Chlorophenol	4.909	128	127115	46.85	ppb	97
13) Decane	5.048	57	121692	48.19	ppb	96
14) 1,3-Dichlorobenzene	5.091	146	133219	46.50	ppb	99
15) 1,4-Dichlorobenzene	5.177	146	136418	46.80	ppb	100
16) Benzyl alcohol	5.449	108	86189	48.53	ppb	97
17) 1,2-Dichlorobenzene	5.444	146	132627	47.14	ppb	100
18) Acetophenone	5.819	105	160276	46.23	ppb	97
19) 2-Methylphenol	5.696	108	111427	48.09	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.690	121	41837	46.96	ppb	# 78
21) 3&4-Methylphenol	5.920	108	120036	48.38	ppb	99
22) n-Nitroso-di-n-propyla...	5.899	70	85459	47.34	ppb	95
23) Hexachloroethane	5.893	201	42726	48.49	ppb	100
26) Nitrobenzene	6.054	123	61914	47.71	ppb	95
27) Quinoline	7.642	129	207544	45.09	ppb	100
28) Isophorone	6.428	82	223657	47.87	ppb	97

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2043.D  
 Acq On : 21 Oct 2010 12:54 pm  
 Operator : kristis  
 Sample : ic117-50  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 13:32:59 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 13:31:40 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
29) 2-Nitrophenol	6.541	139	68548	52.25	ppb	93
30) 2,4-Dimethylphenol	6.706	107	111462	49.17	ppb	98
31) Benzoic acid	7.011	105	96446m	57.86	ppb	
32) bis(2-Chloroethoxy)met...	6.840	93	139765	46.91	ppb	100
33) 2,4-Dichlorophenol	6.915	162	97252	48.60	ppb	99
34) 2,6-Dichlorophenol	7.273	162	99371	48.56	ppb	99
35) 1,3,5-Trichlorobenzene	6.546	180	106716	47.71	ppb	99
36) 1,2,4-Trichlorobenzene	7.022	180	102846	46.86	ppb	99
37) 1,2,3-Trichlorobenzene	7.386	180	97873	45.93	ppb	100
38) Naphthalene	7.097	128	356346	46.20	ppb	100
39) 4-Chloroaniline	7.273	127	155238	47.87	ppb	98
40) 2,3-Dichloroaniline	8.691	161	113994	47.81	ppb	99
41) Caprolactam	7.830	113	38036	48.17	ppb	95
42) Hexachlorobutadiene	7.428	225	51379	46.61	ppb	99
43) 4-Chloro-3-methylphenol	8.113	107	103350	48.93	ppb	98
44) 2-Methylnaphthalene	8.177	142	245825	47.82	ppb	97
45) 1-Methylnaphthalene	8.338	142	226739	48.01	ppb	99
46) Dimethylnaphthalene	9.172	156	203796	49.51	ppb	98
48) Hexachlorocyclopentadiene	8.557	237	90600	108.97	ppb	99
49) 2,4,6-Trichlorophenol	8.701	196	69141	48.97	ppb	100
50) 2,4,5-Trichlorophenol	8.760	196	70728	50.60	ppb	99
52) 2-Chloronaphthalene	8.921	162	216137	47.05	ppb	99
53) Biphenyl	8.947	154	279698	47.27	ppb	99
54) 2-Nitroaniline	9.183	65	72985	49.94	ppb	95
55) Dimethylphthalate	9.584	163	241162	46.23	ppb	100
56) Acenaphthylene	9.563	152	355651	48.92	ppb	100
57) 2,6-Dinitrotoluene	9.653	165	53439	52.07	ppb	92
58) 3-Nitroaniline	9.846	138	70365	49.02	ppb	91
59) Acenaphthene	9.867	153	226929	47.12	ppb	100
60) 2,4-Dinitrophenol	10.001	184	54991	139.90	ppb	89
61) 4-Nitrophenol	10.210	109	37285	59.73	ppb	96
62) Dibenzofuran	10.124	168	300918	45.75	ppb	92
63) 2,4-Dinitrotoluene	10.253	165	73314	51.42	ppb	91
64) 2,3,4,6-Tetrachlorophenol	10.418	232	55185	48.54	ppb	97
65) Diethylphthalate	10.723	149	258462	48.54	ppb	99
66) Fluorene	10.659	166	242960	48.34	ppb	100
67) 4-Chlorophenyl-phenyle...	10.723	204	113244	48.13	ppb	97
68) 4-Nitroaniline	10.830	138	66161	50.29	ppb	97
70) 4,6-Dinitro-2-methylph...	10.884	198	41218	65.82	ppb	93
71) n-Nitrosodiphenylamine	10.937	169	177700	48.32	ppb	99
72) 1,2-Diphenylhydrazine	10.964	77	287351	49.11	ppb	96
74) 4-Bromophenyl-phenylether	11.477	248	58720	46.64	ppb	96
75) Hexachlorobenzene	11.649	284	60106	44.67	ppb	91
76) Pentachlorophenol	11.969	266	89339	110.86	ppb	98
77) Phenanthrene	12.146	178	342638	45.86	ppb	99
78) Anthracene	12.216	178	351915	47.78	ppb	99
79) Carbazole	12.520	167	322742	47.10	ppb	100
80) Di-n-butylphthalate	13.307	149	416664	51.08	ppb	99
81) Fluoranthene	13.964	202	345554	48.82	ppb	99
82) Octadecane	12.189	71	102000	50.75	ppb	94

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2043.D  
Acq On : 21 Oct 2010 12:54 pm  
Operator : kristis  
Sample : ic117-50  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 6 Sample Multiplier: 1

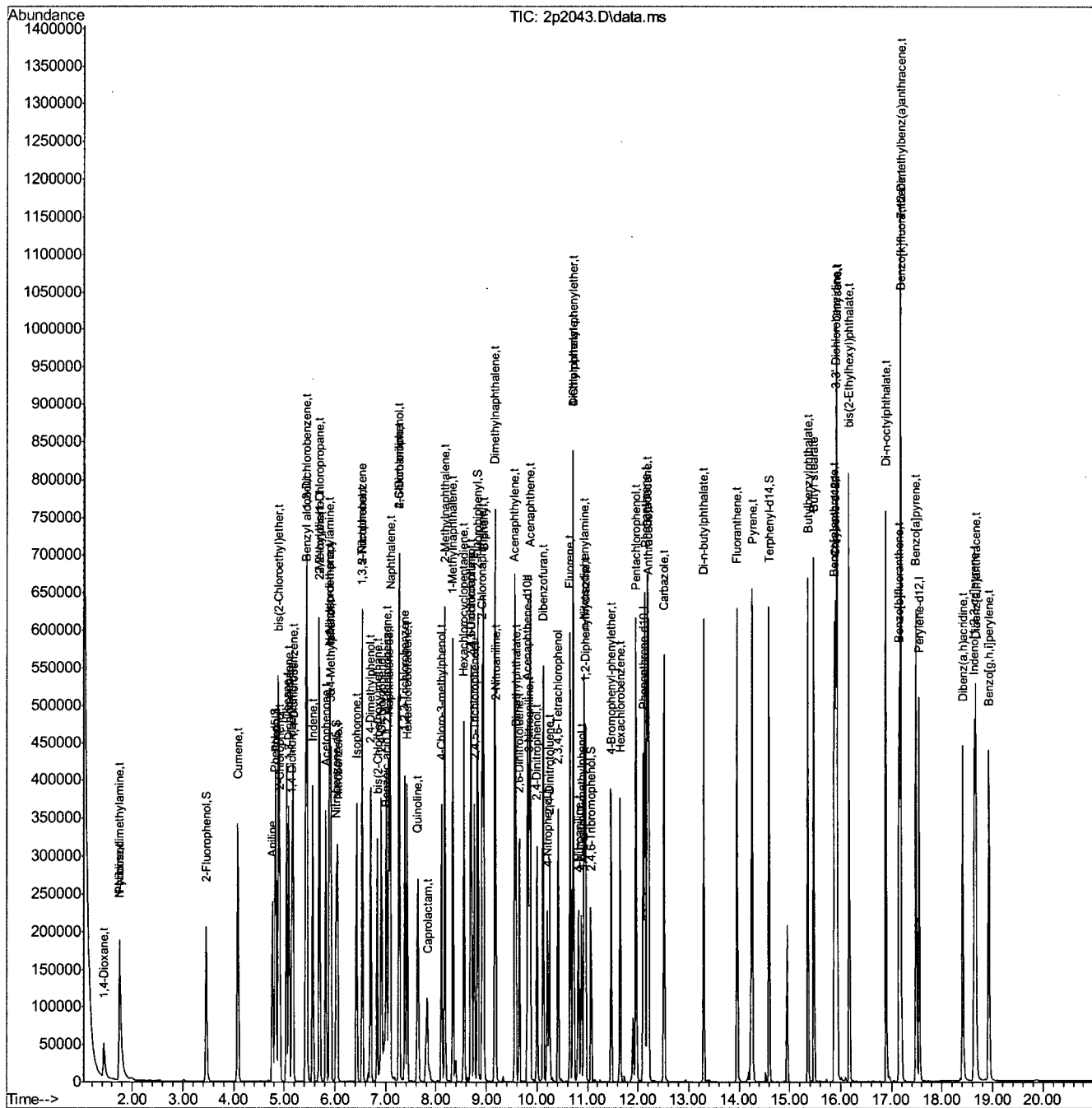
Quant Time: Oct 21 13:32:59 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 13:31:40 2010  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	14.264	202	368375	47.23	ppb	99
86) Butylbenzylphthalate	15.360	149	185343	51.61	ppb	95
87) Butyl stearate	15.478	285	22423	41.18	ppb #	58
88) Benzo[a]anthracene	15.885	228	316952	46.57	ppb	100
89) 3,3'-Dichlorobenzidine	15.927	252	119761	51.08	ppb	97
90) Chrysene	15.938	228	320478	48.63	ppb	99
91) bis(2-Ethylhexyl)phtha...	16.173	149	261020	52.53	ppb	99
93) Di-n-octylphthalate	16.901	149	442720	53.78	ppb	97
94) Benzo[b]fluoranthene	17.163	252	287487	42.65	ppb	100
95) Benzo[k]fluoranthene	17.195	252	342359	61.84	ppb	92
96) Benzo[a]pyrene	17.495	252	281321	50.62	ppb	99
97) Indeno[1,2,3-cd]pyrene	18.650	276	338308	52.27	ppb	96
98) Dibenz(a,h)acridine	18.415	279	240447	52.64	ppb	100
99) Dibenz[a,h]anthracene	18.677	278	281132	52.92	ppb	99
100) 7,12-Dimethylbenz(a)an...	17.200	256	130821	58.15	ppb	99
101) Benzo[g,h,i]perylene	18.933	276	278065	50.27	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(OT Reviewed)

Quant Time: Oct 21 13:32:59 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 13:31:40 2010  
Response via : Initial Calibration



Page: 4

8.6.5

## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** E2P117-IC117      **Method:** SW846 8270C  
**Lab FileID:** 2P2043.D      **Analyst approved:** 10/25/10 15:16 Krutika Patel  
**Injection Time:** 10/21/10 12:54      **Supervisor approved:** 10/25/10 15:58 Kristi Schollenberger

Parameter	CAS	Sig#	R. T. (min.)	Reason
Benzoic Acid	65-85-0		7.01	Split peak

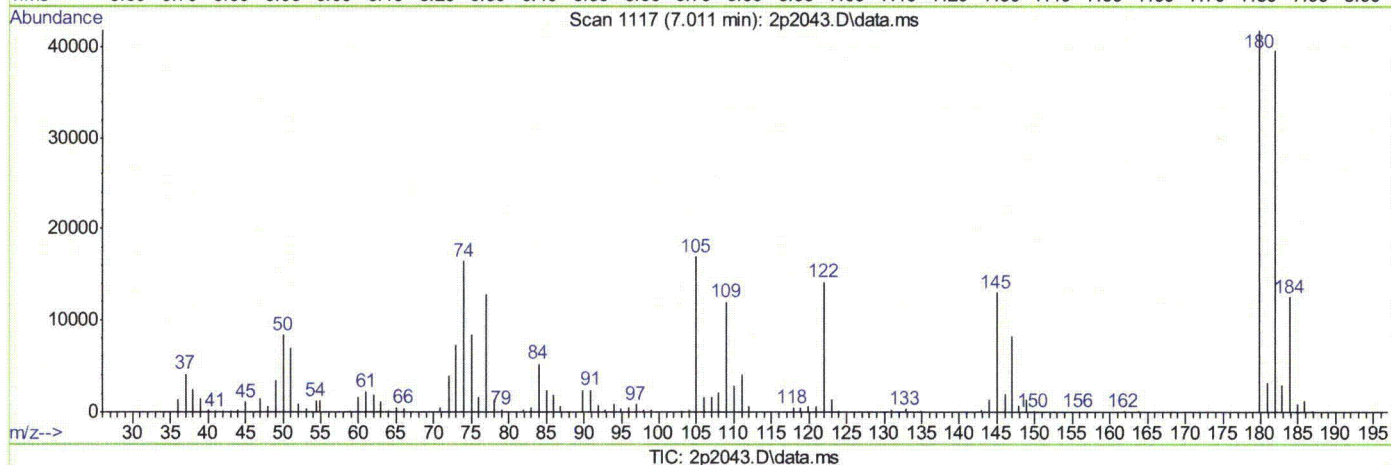
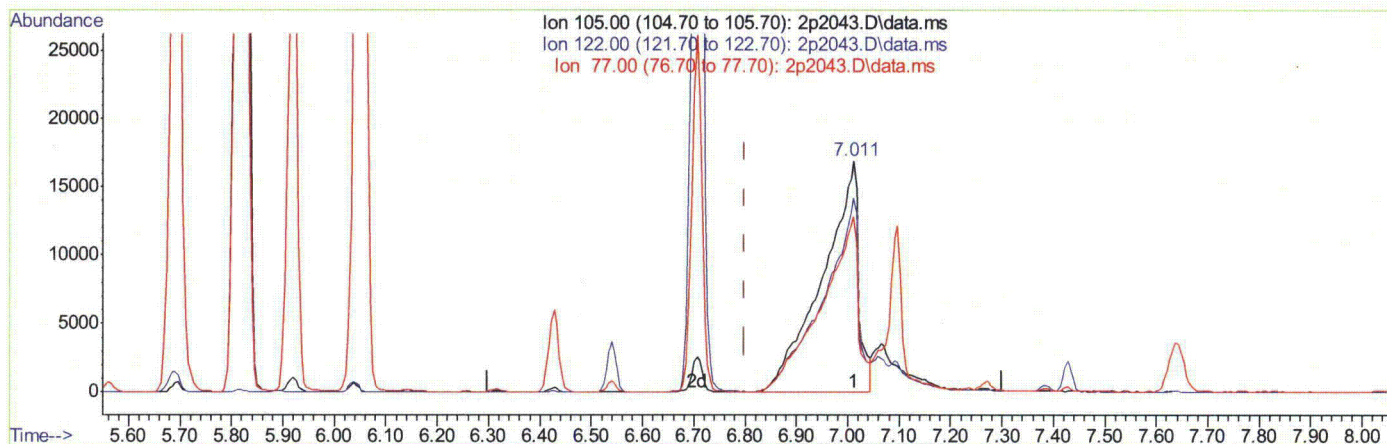
8.6.5.1

8

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2043.D  
Acq On : 21 Oct 2010 12:54 pm  
Operator : kristis  
Sample : ic117-50  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 13:14:41 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 13:06:33 2010  
Response via : Initial Calibration



(31) Benzoic acid (t)

7.011min (+0.211) 49.48ppb

response 82482

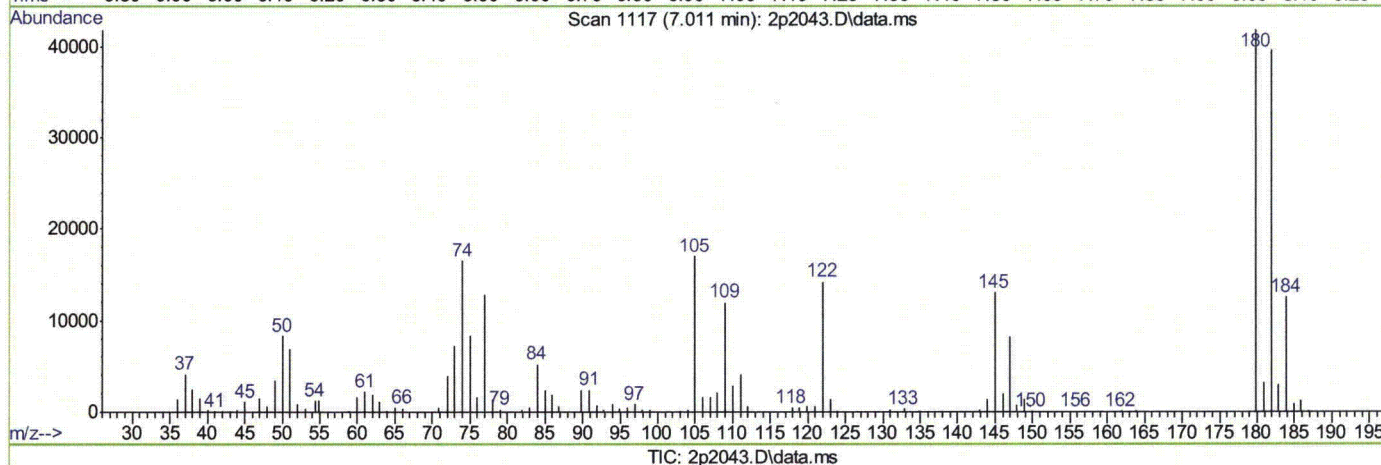
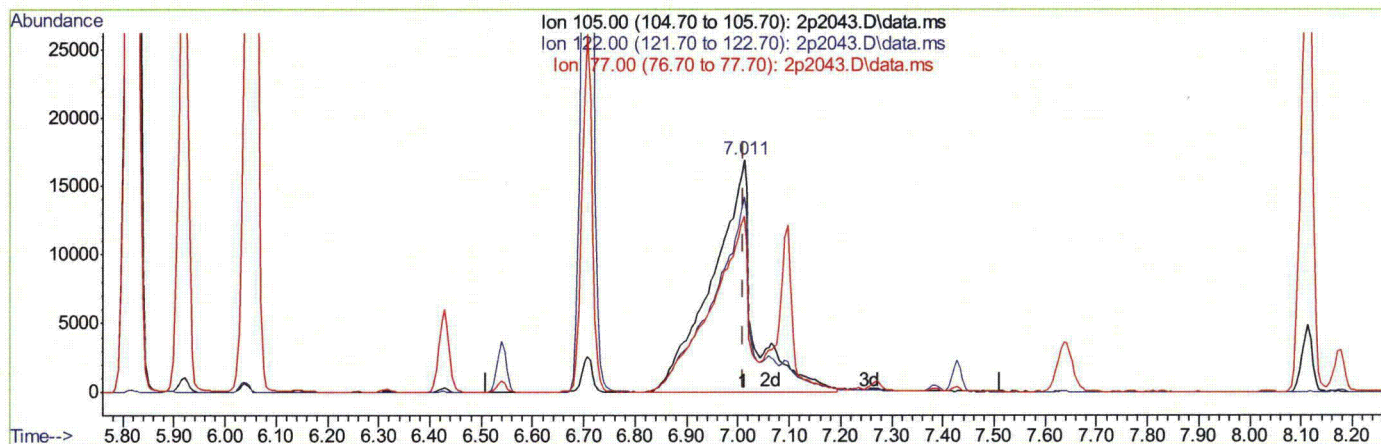
Ion	Exp%	Act%
105.00	100	100
122.00	80.60	83.56
77.00	75.50	74.87
0.00	0.00	0.00



## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2043.D  
Acq On : 21 Oct 2010 12:54 pm  
Operator : kristis  
Sample : ic117-50  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 13:32:59 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 13:31:40 2010  
Response via : Initial Calibration



(31) Benzoic acid (t)

7.011min (0.000) 57.86ppb m

response 96446

Ion	Exp%	Act%
105.00	100	100
122.00	80.60	83.81
77.00	75.50	75.80
0.00	0.00	0.00



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2044.D  
 Acq On : 21 Oct 2010 1:20 pm  
 Operator : kristis  
 Sample : ic117-5  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 13:58:11 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 13:56:46 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.150	152	102056	40.00	ppb	0.00
24) Naphthalene-d8	7.065	136	384263	40.00	ppb	0.00
47) Acenaphthene-d10	9.814	164	222153	40.00	ppb	0.00
69) Phenanthrene-d10	12.103	188	348760	40.00	ppb	0.00
83) Chrysene-d12	15.901	240	344389	40.00	ppb	0.00
92) Perylene-d12	17.559	264	296845	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.150	152	102056	40.00	ppb	0.00
104) Acenaphthene-d10a	9.814	164	222153	40.00	ppb	0.00
106) Chrysene-d12a	15.901	240	344389	40.00	ppb	0.00
108) Acenaphthene-d10b	9.814	164	222153	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.454	112	15416	4.61	ppb	0.00
Spiked Amount 50.000			Recovery	=	9.22%	
8) Phenol-d5	4.808	99	20141	4.55	ppb	0.00
Spiked Amount 50.000			Recovery	=	9.10%	
25) Nitrobenzene-d5	6.016	82	18654	4.76	ppb	0.00
Spiked Amount 50.000			Recovery	=	9.52%	
51) 2-Fluorobiphenyl	8.819	172	34701	4.49	ppb	0.00
Spiked Amount 50.000			Recovery	=	8.98%	
73) 2,4,6-Tribromophenol	11.060	330	3376	4.17	ppb	0.00
Spiked Amount 50.000			Recovery	=	8.34%	
85) Terphenyl-d14	14.585	244	27938	4.60	ppb	0.00
Spiked Amount 50.000			Recovery	=	9.20%	
Target Compounds						
2) 1,4-Dioxane	1.443	88	6312	5.26	ppb	Qvalue 100
3) Pyridine	1.780	79	17533	4.67	ppb	95
4) N-Nitrosodimethylamine	1.754	74	10474	4.83	ppb	# 69
6) Indene	5.562	116	23483	4.78	ppb	98
7) Cumene	4.080	105	32459	4.87	ppb	97
9) Phenol	4.824	94	21288	4.55	ppb	85
10) Aniline	4.760	93	25069	5.14	ppb	98
11) bis(2-Chloroethyl)ether	4.877	93	17238	4.71	ppb	98
12) 2-Chlorophenol	4.904	128	17330	4.60	ppb	97
13) Decane	5.043	57	17422	4.94	ppb	93
14) 1,3-Dichlorobenzene	5.091	146	18955	4.77	ppb	98
15) 1,4-Dichlorobenzene	5.171	146	19487	4.82	ppb	98
16) Benzyl alcohol	5.439	108	11324	4.56	ppb	94
17) 1,2-Dichlorobenzene	5.439	146	18069	4.62	ppb	99
18) Acetophenone	5.808	105	22529	4.69	ppb	96
19) 2-Methylphenol	5.685	108	14971	4.63	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.685	121	5925	4.79	ppb	# 69
21) 3&4-Methylphenol	5.909	108	15930	4.60	ppb	99
22) n-Nitroso-di-n-propyla...	5.888	70	12006	4.78	ppb	88
23) Hexachloroethane	5.888	201	5906	4.80	ppb	95
26) Nitrobenzene	6.043	123	8535	4.69	ppb	91
27) Quinoline	7.616	129	29292	4.59	ppb	98
28) Isophorone	6.418	82	32151	4.90	ppb	94

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2044.D  
 Acq On : 21 Oct 2010 1:20 pm  
 Operator : kristis  
 Sample : ic117-5  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 13:58:11 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 13:56:46 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	6.535	139	8592	4.58	ppb	81
30) 2,4-Dimethylphenol	6.696	107	13533	4.23	ppb	96
31) Benzoic acid	6.883	105	8534	3.48	ppb	97
32) bis(2-Chloroethoxy)met...	6.829	93	19764	4.74	ppb	99
33) 2,4-Dichlorophenol	6.910	162	12859	4.56	ppb	94
34) 2,6-Dichlorophenol	7.263	162	12994	4.51	ppb	98
35) 1,3,5-Trichlorobenzene	6.541	180	14869	4.74	ppb	99
36) 1,2,4-Trichlorobenzene	7.017	180	14631	4.77	ppb	100
37) 1,2,3-Trichlorobenzene	7.380	180	14202	4.79	ppb	99
38) Naphthalene	7.092	128	51328	4.77	ppb	99
39) 4-Chloroaniline	7.263	127	22190	4.87	ppb	95
40) 2,3-Dichloroaniline	8.685	161	15321	4.58	ppb	98
41) Caprolactam	7.733	113	5136	4.63	ppb	95
42) Hexachlorobutadiene	7.423	225	7396	4.80	ppb	99
43) 4-Chloro-3-methylphenol	8.092	107	13690	4.60	ppb	94
44) 2-Methylnaphthalene	8.172	142	34131	4.73	ppb	97
45) 1-Methylnaphthalene	8.332	142	31198	4.70	ppb	99
46) Dimethylnaphthalene	9.161	156	26846	4.62	ppb	99
48) Hexachlorocyclopentadiene	8.552	237	10182	8.32	ppb	100
49) 2,4,6-Trichlorophenol	8.691	196	8781	4.32	ppb	97
50) 2,4,5-Trichlorophenol	8.744	196	9105	4.49	ppb	97
52) 2-Chloronaphthalene	8.910	162	30422	4.63	ppb	99
53) Biphenyl	8.937	154	38151	4.51	ppb	99
54) 2-Nitroaniline	9.167	65	10092	4.77	ppb	84
55) Dimethylphthalate	9.573	163	34428	4.63	ppb	99
56) Acenaphthylene	9.557	152	47170	4.50	ppb	100
57) 2,6-Dinitrotoluene	9.637	165	6780	4.53	ppb	87
58) 3-Nitroaniline	9.825	138	9515	4.60	ppb	86
59) Acenaphthene	9.857	153	31357	4.55	ppb	99
60) 2,4-Dinitrophenol	9.985	184	3165	5.15	ppb	75
61) 4-Nitrophenol	10.188	109	4028	4.29	ppb	91
62) Dibenzofuran	10.114	168	43058	4.60	ppb	96
63) 2,4-Dinitrotoluene	10.237	165	9572	4.62	ppb	92
64) 2,3,4,6-Tetrachlorophenol	10.413	232	7007	4.29	ppb	95
65) Diethylphthalate	10.702	149	35845	4.68	ppb	97
66) Fluorene	10.648	166	32736	4.53	ppb	97
67) 4-Chlorophenyl-phenyle...	10.718	204	15478	4.58	ppb	100
68) 4-Nitroaniline	10.787	138	8805	4.62	ppb	89
70) 4,6-Dinitro-2-methylph...	10.862	198	3700	3.82	ppb	88
71) n-Nitrosodiphenylamine	10.921	169	24065	4.53	ppb	97
72) 1,2-Diphenylhydrazine	10.953	77	42351	5.00	ppb	92
74) 4-Bromophenyl-phenylether	11.467	248	7823	4.33	ppb	93
75) Hexachlorobenzene	11.638	284	8585	4.48	ppb	90
76) Pentachlorophenol	11.953	266	10313	8.61	ppb	98
77) Phenanthrene	12.135	178	48146	4.51	ppb	99
78) Anthracene	12.199	178	49534	4.67	ppb	98
79) Carbazole	12.510	167	43978	4.47	ppb	99
80) Di-n-butylphthalate	13.296	149	55418	4.65	ppb	99
81) Fluoranthene	13.954	202	45053	4.40	ppb	99
82) Octadecane	12.183	71	13799	4.71	ppb	86

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2044.D  
Acq On : 21 Oct 2010 1:20 pm  
Operator : kristis  
Sample : ic117-5  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 13:58:11 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 13:56:46 2010  
Response via : Initial Calibration

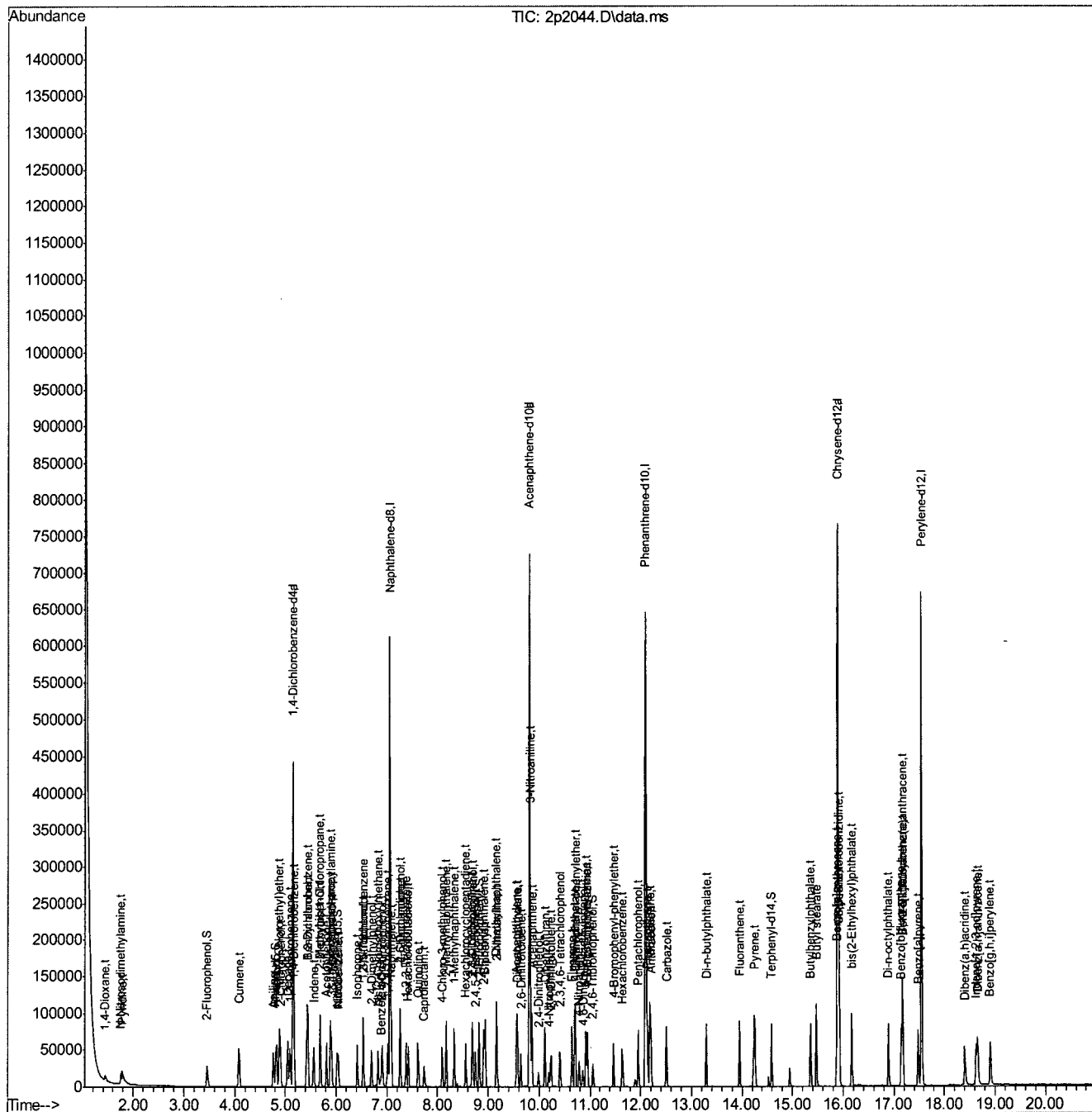
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	14.253	202	50487	4.73	ppb	99
86) Butylbenzylphthalate	15.355	149	23158	4.63	ppb	95
87) Butyl stearate	15.473	285	3041	4.19	ppb #	17
88) Benzo[a]anthracene	15.879	228	42311	4.56	ppb	99
89) 3,3'-Dichlorobenzidine	15.922	252	15528	4.77	ppb	97
90) Chrysene	15.927	228	43466	4.79	ppb	98
91) bis(2-Ethylhexyl)phtha...	16.174	149	31700	4.57	ppb	98
93) Di-n-octylphthalate	16.896	149	53167	4.40	ppb	95
94) Benzo[b]fluoranthene	17.147	252	39327	4.16	ppb	99
95) Benzo[k]fluoranthene	17.174	252	40986	4.89	ppb	95
96) Benzo[a]pyrene	17.484	252	35364	4.39	ppb	98
97) Indeno[1,2,3-cd]pyrene	18.629	276	40436	4.28	ppb	94
98) Dibenz(a,h)acridine	18.404	279	28022	4.20	ppb	99
99) Dibenz[a,h]anthracene	18.655	278	33403	4.30	ppb	99
100) 7,12-Dimethylbenz(a)an...	17.179	256	14056	4.18	ppb	95
101) Benzo[g,h,i]perylene	18.907	276	35059	4.38	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2044.D  
Acq On : 21 Oct 2010 1:20 pm  
Operator : kristis  
Sample : ic117-5  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 13:58:11 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 13:56:46 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2045.D  
 Acq On : 21 Oct 2010 1:46 pm  
 Operator : kristis  
 Sample : icc117-25  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 14:23:59 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 Qlast Update : Thu Oct 21 13:58:22 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.150	152	61733	40.00	ppb	0.00
24) Naphthalene-d8	7.065	136	235501	40.00	ppb	0.00
47) Acenaphthene-d10	9.814	164	133845	40.00	ppb	0.00
69) Phenanthrene-d10	12.103	188	208739	40.00	ppb	0.00
83) Chrysene-d12	15.901	240	212790	40.00	ppb	0.00
92) Perylene-d12	17.554	264	176618	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.150	152	61733	40.00	ppb	0.00
104) Acenaphthene-d10a	9.814	164	133845	40.00	ppb	0.00
106) Chrysene-d12a	15.901	240	212790	40.00	ppb	0.00
108) Acenaphthene-d10b	9.814	164	133845	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.454	112	51765	25.92	ppb	0.00
Spiked Amount 50.000			Recovery =	51.84%		
8) Phenol-d5	4.813	99	68541	25.98	ppb	0.00
Spiked Amount 50.000			Recovery =	51.96%		
25) Nitrobenzene-d5	6.022	82	61693	25.90	ppb	0.00
Spiked Amount 50.000			Recovery =	51.80%		
51) 2-Fluorobiphenyl	8.825	172	115635	25.28	ppb	0.00
Spiked Amount 50.000			Recovery =	50.56%		
73) 2,4,6-Tribromophenol	11.066	330	12301	26.13	ppb	0.00
Spiked Amount 50.000			Recovery =	52.26%		
85) Terphenyl-d14	14.590	244	96577	26.07	ppb	0.00
Spiked Amount 50.000			Recovery =	52.14%		
Target Compounds						
2) 1,4-Dioxane	1.443	88	20834	28.46	ppb	Qvalue 100
3) Pyridine	1.759	79	56368	25.08	ppb	96
4) N-Nitrosodimethylamine	1.748	74	33877	25.99	ppb	# 72
6) Indene	5.562	116	76920	26.09	ppb	98
7) Cumene	4.080	105	105838	26.38	ppb	98
9) Phenol	4.829	94	71829	25.77	ppb	87
10) Aniline	4.765	93	71540	24.13	ppb	96
11) bis(2-Chloroethyl)ether	4.883	93	56321	25.68	ppb	100
12) 2-Chlorophenol	4.904	128	57741	25.68	ppb	96
13) Decane	5.043	57	57482	27.01	ppb	94
14) 1,3-Dichlorobenzene	5.091	146	61824	25.93	ppb	98
15) 1,4-Dichlorobenzene	5.171	146	62552	25.71	ppb	100
16) Benzyl alcohol	5.444	108	38745	26.18	ppb	98
17) 1,2-Dichlorobenzene	5.439	146	60439	25.87	ppb	98
18) Acetophenone	5.813	105	74734	26.00	ppb	97
19) 2-Methylphenol	5.685	108	50803	26.30	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.685	121	19143	25.75	ppb	# 68
21) 3&4-Methylphenol	5.915	108	54789	26.49	ppb	100
22) n-Nitroso-di-n-propyla...	5.893	70	39669	26.30	ppb	92
23) Hexachloroethane	5.888	201	19599	26.49	ppb	93
26) Nitrobenzene	6.043	123	28562	25.87	ppb	86
27) Quinoline	7.621	129	96825	25.08	ppb	99
28) Isophorone	6.418	82	105385	26.30	ppb	95

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2045.D  
 Acq On : 21 Oct 2010 1:46 pm  
 Operator : kristis  
 Sample : iccl117-25  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 14:23:59 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 13:58:22 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	6.535	139	30425	26.86	ppb	87
30) 2,4-Dimethylphenol	6.701	107	49406	25.87	ppb	98
31) Benzoic acid	6.953	105	41415m	29.34	ppb	
32) bis(2-Chloroethoxy)met...	6.829	93	65439	25.85	ppb	99
33) 2,4-Dichlorophenol	6.910	162	44146	25.95	ppb	97
34) 2,6-Dichlorophenol	7.268	162	44111	25.40	ppb	98
35) 1,3,5-Trichlorobenzene	6.541	180	48850	25.63	ppb	99
36) 1,2,4-Trichlorobenzene	7.017	180	47768	25.60	ppb	99
37) 1,2,3-Trichlorobenzene	7.380	180	45427	25.16	ppb	99
38) Naphthalene	7.092	128	165738	25.34	ppb	99
39) 4-Chloroaniline	7.268	127	72184	25.98	ppb	97
40) 2,3-Dichloroaniline	8.685	161	52527	25.98	ppb	98
41) Caprolactam	7.776	113	17604	26.21	ppb	95
42) Hexachlorobutadiene	7.429	225	23988	25.59	ppb	99
43) 4-Chloro-3-methylphenol	8.102	107	47056	26.14	ppb	92
44) 2-Methylnaphthalene	8.172	142	112657	25.71	ppb	96
45) 1-Methylnaphthalene	8.332	142	103462	25.71	ppb	98
46) Dimethylnaphthalene	9.167	156	91525	26.01	ppb	99
48) Hexachlorocyclopentadiene	8.557	237	39172	54.64	ppb	99
49) 2,4,6-Trichlorophenol	8.696	196	30923	25.82	ppb	99
50) 2,4,5-Trichlorophenol	8.750	196	31406	26.16	ppb	100
52) 2-Chloronaphthalene	8.915	162	100196	25.64	ppb	100
53) Biphenyl	8.942	154	128456	25.61	ppb	98
54) 2-Nitroaniline	9.172	65	34553	27.34	ppb	91
55) Dimethylphthalate	9.579	163	112538	25.44	ppb	99
56) Acenaphthylene	9.557	152	161430	26.02	ppb	100
57) 2,6-Dinitrotoluene	9.643	165	24121	27.17	ppb	87
58) 3-Nitroaniline	9.835	138	31350	25.50	ppb	85
59) Acenaphthene	9.857	153	104155	25.48	ppb	99
60) 2,4-Dinitrophenol	9.991	184	20127	59.19	ppb	84
61) 4-Nitrophenol	10.194	109	16631	30.13	ppb	93
62) Dibenzofuran	10.119	168	138856	24.97	ppb	95
63) 2,4-Dinitrotoluene	10.242	165	33261	26.96	ppb	94
64) 2,3,4,6-Tetrachlorophenol	10.413	232	24722	25.71	ppb	96
65) Diethylphthalate	10.713	149	119506	26.18	ppb	98
66) Fluorene	10.654	166	109822	25.64	ppb	99
67) 4-Chlorophenyl-phenyle...	10.718	204	51991	25.90	ppb	98
68) 4-Nitroaniline	10.804	138	30597	27.00	ppb	94
70) 4,6-Dinitro-2-methylph...	10.868	198	17062	30.65	ppb	90
71) n-Nitrosodiphenylamine	10.932	169	80426	25.70	ppb	99
72) 1,2-Diphenylhydrazine	10.959	77	138535	27.31	ppb	94
74) 4-Bromophenyl-phenylether	11.472	248	26399	24.98	ppb	96
75) Hexachlorobenzene	11.643	284	28048	24.90	ppb	90
76) Pentachlorophenol	11.959	266	37853	54.07	ppb	98
77) Phenanthrene	12.135	178	156535	24.89	ppb	99
78) Anthracene	12.205	178	162971	25.94	ppb	98
79) Carbazole	12.510	167	145765	25.18	ppb	100
80) Di-n-butylphthalate	13.296	149	189336	26.87	ppb	99
81) Fluoranthene	13.959	202	157081	26.14	ppb	98
82) Octadecane	12.183	71	47243	27.19	ppb	89

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2045.D  
 Acq On : 21 Oct 2010 1:46 pm  
 Operator : kristis  
 Sample : iccl17-25  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 14:23:59 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 13:58:22 2010  
 Response via : Initial Calibration

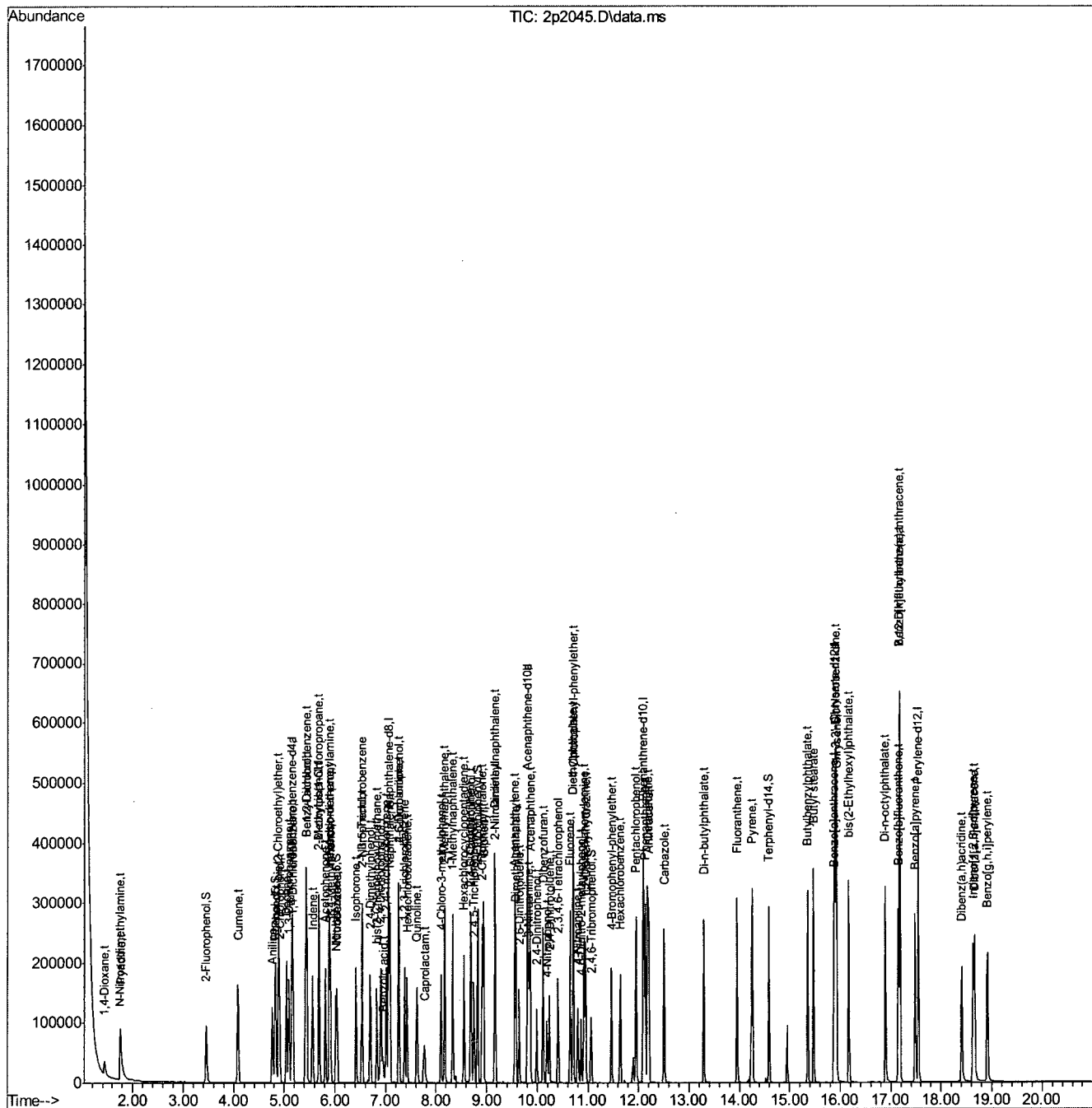
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	14.259	202	169020	25.87	ppb	98
86) Butylbenzylphthalate	15.355	149	83898	27.50	ppb	94
87) Butyl stearate	15.473	285	9588	21.95	ppb #	37
88) Benzo[a]anthracene	15.879	228	142539	25.22	ppb	99
89) 3,3'-Dichlorobenzidine	15.922	252	53852	26.97	ppb	96
90) Chrysene	15.933	228	150087	26.98	ppb	98
91) bis(2-Ethylhexyl)phtha...	16.174	149	116403	27.53	ppb	98
93) Di-n-octylphthalate	16.896	149	193003	27.40	ppb	96
94) Benzo[b]fluoranthene	17.152	252	139171	25.44	ppb	98
95) Benzo[k]fluoranthene	17.184	252	145965	29.37	ppb	93
96) Benzo[a]pyrene	17.489	252	123715	26.35	ppb	98
97) Indeno[1,2,3-cd]pyrene	18.634	276	148289	27.04	ppb	96
98) Dibenz(a,h)acridine	18.409	279	102944	26.64	ppb	100
99) Dibenz[a,h]anthracene	18.666	278	121595	26.93	ppb	99
100) 7,12-Dimethylbenz(a)an...	17.184	256	60000	30.86	ppb	98
101) Benzo[g,h,i]perylene	18.917	276	122872	26.34	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2045.D  
Acq On : 21 Oct 2010 1:46 pm  
Operator : kristis  
Sample : icc117-25  
Misc : op45931,e2p117,1000,,,1  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 14:23:59 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 13:58:22 2010  
Response via : Initial Calibration



M2P117.M Thu Oct 21 21:30:58 2010 RPT1

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## Manual Integration Approval Summary

Page 1 of 1

**Sample Number:** E2P117-ICC117      **Method:** SW846 8270C  
**Lab FileID:** 2P2045.D      **Analyst approved:** 10/25/10 15:16 Krutika Patel  
**Injection Time:** 10/21/10 13:46      **Supervisor approved:** 10/25/10 15:58 Kristi Schollenberger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.95	Split peak

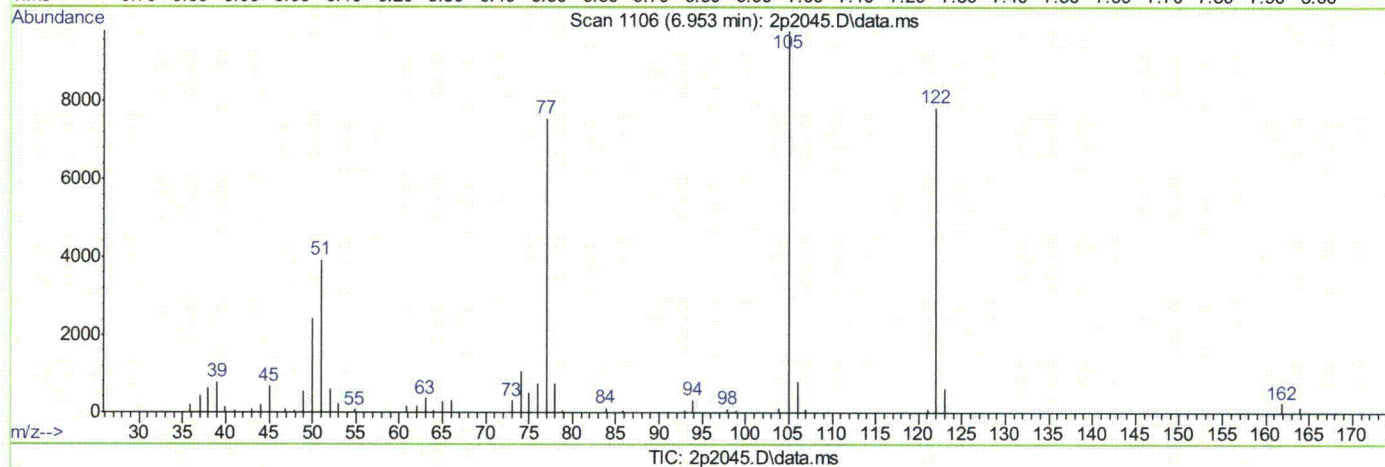
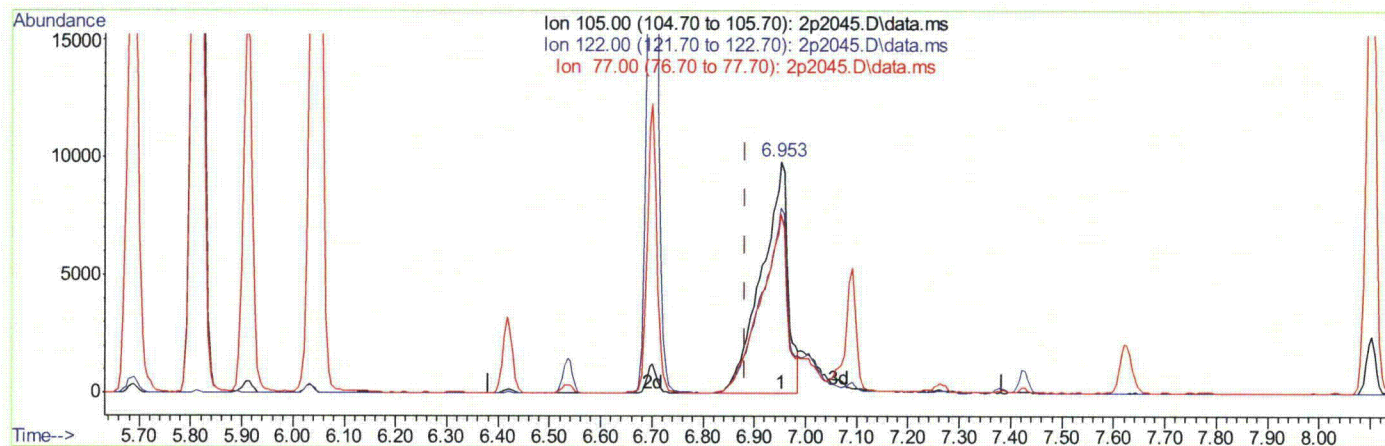
8.6.7.1

8

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2045.D  
Acq On : 21 Oct 2010 1:46 pm  
Operator : kristis  
Sample : icc117-25  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 14:22:42 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 13:58:22 2010  
Response via : Initial Calibration



(31) Benzoic acid (t)

6.953min (+0.070) 24.87ppb

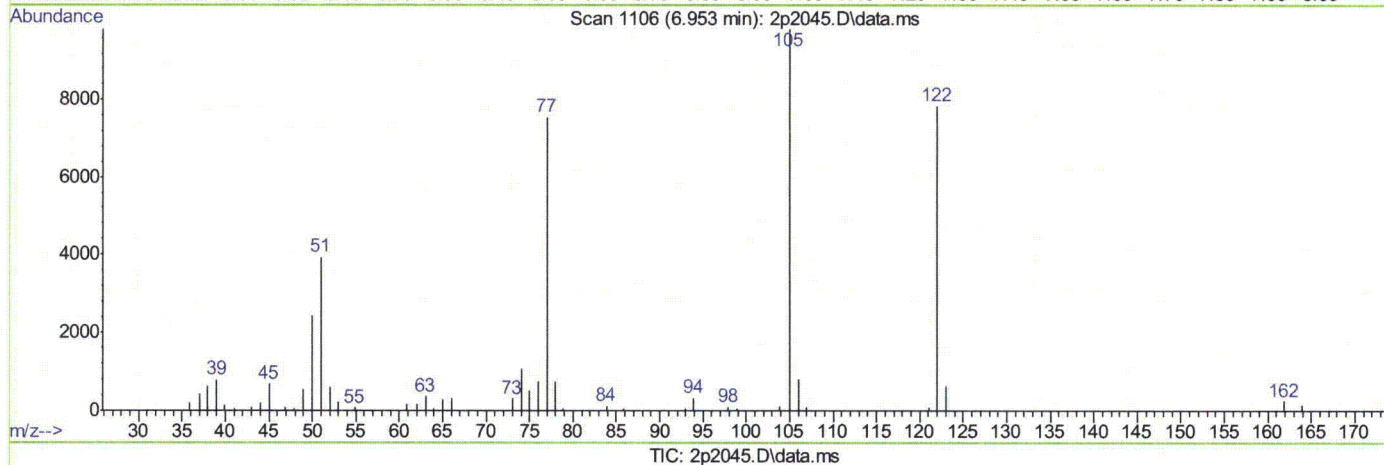
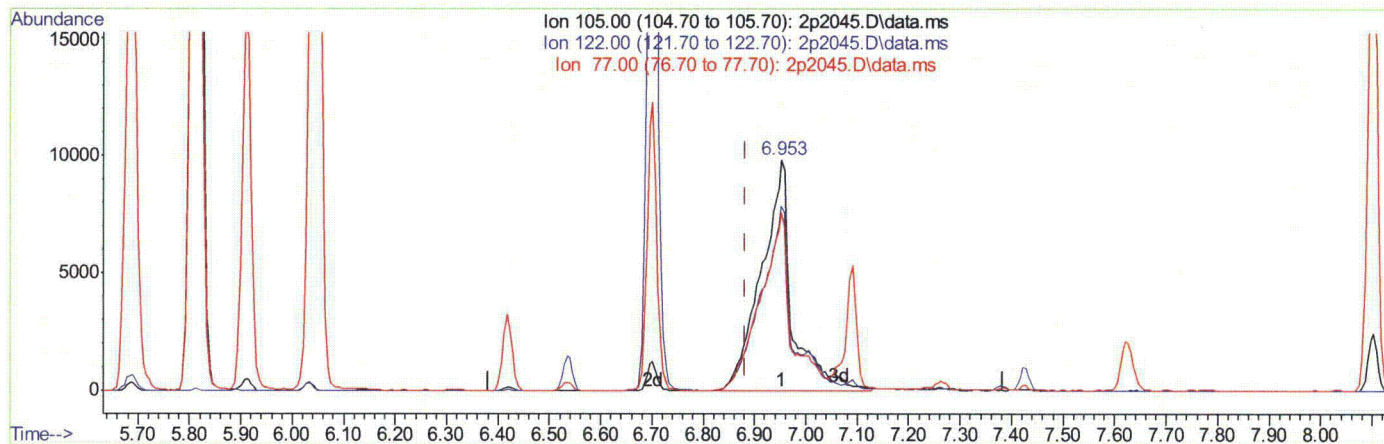
response 35114

Ion	Exp%	Act%
105.00	100	100
122.00	80.60	78.48
77.00	75.50	75.59
0.00	0.00	0.00

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2045.D  
Acq On : 21 Oct 2010 1:46 pm  
Operator : kristis  
Sample : icc117-25  
Misc : op45931,e2p117,1000,,,1,1  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 14:23:59 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 13:58:22 2010  
Response via : Initial Calibration



(31) Benzoic acid (t)

6.953min (+0.070) 29.34ppb m

response 41415

Ion	Exp%	Act%
105.00	100	100
122.00	80.60	79.85
77.00	75.50	76.97
0.00	0.00	0.00

8.6.7.3  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2046.D  
 Acq On : 21 Oct 2010 2:26 pm  
 Operator : kristis  
 Sample : ic117-10  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 14:49:41 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 14:24:07 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.144	152	96232	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	368785	40.00	ppb	0.00
47) Acenaphthene-d10	9.814	164	211334	40.00	ppb	0.00
69) Phenanthrene-d10	12.103	188	335741	40.00	ppb	0.00
83) Chrysene-d12	15.906	240	339075	40.00	ppb	0.00
92) Perylene-d12	17.559	264	291855	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.144	152	96232	40.00	ppb	0.00
104) Acenaphthene-d10a	9.814	164	211334	40.00	ppb	0.00
106) Chrysene-d12a	15.906	240	339075	40.00	ppb	0.00
108) Acenaphthene-d10b	9.814	164	211334	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.444	112	30416	9.72	ppb	-0.01
Spiked Amount 50.000			Recovery	=	19.44%	
8) Phenol-d5	4.802	99	40418	9.77	ppb	-0.01
Spiked Amount 50.000			Recovery	=	19.54%	
25) Nitrobenzene-d5	6.011	82	37116	9.90	ppb	-0.01
Spiked Amount 50.000			Recovery	=	19.80%	
51) 2-Fluorobiphenyl	8.819	172	68506	9.47	ppb	0.00
Spiked Amount 50.000			Recovery	=	18.94%	
73) 2,4,6-Tribromophenol	11.065	330	7136	9.36	ppb	0.00
Spiked Amount 50.000			Recovery	=	18.72%	
85) Terphenyl-d14	14.590	244	57219	9.63	ppb	0.00
Spiked Amount 50.000			Recovery	=	19.26%	
Target Compounds						
2) 1,4-Dioxane	1.438	88	11148	9.58	ppb	Qvalue 93
3) Pyridine	1.759	79	34394	9.81	ppb	96
4) N-Nitrosodimethylamine	1.743	74	19948	9.76	ppb	# 72
6) Indene	5.551	116	46507	10.06	ppb	99
7) Cumene	4.075	105	62746	9.95	ppb	98
9) Phenol	4.818	94	42510	9.74	ppb	89
10) Aniline	4.754	93	45547	9.90	ppb	99
11) bis(2-Chloroethyl)ether	4.872	93	33645	9.80	ppb	99
12) 2-Chlorophenol	4.893	128	34459	9.79	ppb	96
13) Decane	5.037	57	34092	10.16	ppb	93
14) 1,3-Dichlorobenzene	5.080	146	36466	9.76	ppb	97
15) 1,4-Dichlorobenzene	5.166	146	37841	9.94	ppb	98
16) Benzyl alcohol	5.433	108	22434	9.66	ppb	94
17) 1,2-Dichlorobenzene	5.433	146	35584	9.72	ppb	99
18) Acetophenone	5.802	105	45126	10.01	ppb	96
19) 2-Methylphenol	5.679	108	29926	9.86	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.679	121	11566	9.94	ppb	# 66
21) 3&4-Methylphenol	5.904	108	32021	9.85	ppb	98
22) n-Nitroso-di-n-propyla...	5.883	70	24015	10.14	ppb	90
23) Hexachloroethane	5.883	201	11544	9.92	ppb	98
26) Nitrobenzene	6.038	123	16955	9.76	ppb	91
27) Quinoline	7.616	129	59043	9.76	ppb	99
28) Isophorone	6.412	82	63650	10.07	ppb	95

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2046.D  
 Acq On : 21 Oct 2010 2:26 pm  
 Operator : kristis  
 Sample : ic117-10  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 14:49:41 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 14:24:07 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	6.530	139	17374	9.69	ppb	83
30) 2,4-Dimethylphenol	6.696	107	27432	9.13	ppb	97
31) Benzoic acid	6.915	105	21359	9.39	ppb	98
32) bis(2-Chloroethoxy)met...	6.824	93	39214	9.85	ppb	99
33) 2,4-Dichlorophenol	6.904	162	25986	9.70	ppb	98
34) 2,6-Dichlorophenol	7.263	162	26453	9.71	ppb	98
35) 1,3,5-Trichlorobenzene	6.535	180	29155	9.73	ppb	99
36) 1,2,4-Trichlorobenzene	7.011	180	28251	9.64	ppb	99
37) 1,2,3-Trichlorobenzene	7.375	180	27268	9.63	ppb	98
38) Naphthalene	7.086	128	100266	9.77	ppb	99
39) 4-Chloroaniline	7.263	127	43538	9.95	ppb	97
40) 2,3-Dichloroaniline	8.680	161	30770	9.66	ppb	98
41) Caprolactam	7.749	113	10579	9.99	ppb	94
42) Hexachlorobutadiene	7.423	225	14194	9.64	ppb	99
43) 4-Chloro-3-methylphenol	8.097	107	27594	9.72	ppb	95
44) 2-Methylnaphthalene	8.166	142	67364	9.78	ppb	96
45) 1-Methylnaphthalene	8.327	142	62040	9.80	ppb	97
46) Dimethylnaphthalene	9.161	156	54476	9.83	ppb	97
48) Hexachlorocyclopentadiene	8.552	237	22058	19.23	ppb	98
49) 2,4,6-Trichlorophenol	8.691	196	18122	9.54	ppb	99
50) 2,4,5-Trichlorophenol	8.744	196	18037	9.45	ppb	99
52) 2-Chloronaphthalene	8.910	162	59292	9.57	ppb	98
53) Biphenyl	8.937	154	76417	9.61	ppb	99
54) 2-Nitroaniline	9.172	65	20868	10.32	ppb	92
55) Dimethylphthalate	9.573	163	68076	9.72	ppb	99
56) Acenaphthylene	9.557	152	94839	9.62	ppb	99
57) 2,6-Dinitrotoluene	9.643	165	14179	9.99	ppb	91
58) 3-Nitroaniline	9.830	138	18985	9.75	ppb	83
59) Acenaphthene	9.857	153	62059	9.59	ppb	99
60) 2,4-Dinitrophenol	9.985	184	9702	17.61	ppb	81
61) 4-Nitrophenol	10.188	109	9450	10.53	ppb	91
62) Dibenzofuran	10.113	168	83809	9.55	ppb	92
63) 2,4-Dinitrotoluene	10.236	165	19889	10.10	ppb	90
64) 2,3,4,6-Tetrachlorophenol	10.413	232	14479	9.50	ppb	96
65) Diethylphthalate	10.707	149	71954	9.92	ppb	96
66) Fluorene	10.654	166	65849	9.70	ppb	99
67) 4-Chlorophenyl-phenyle...	10.718	204	30401	9.54	ppb	97
68) 4-Nitroaniline	10.798	138	17544	9.69	ppb	96
70) 4,6-Dinitro-2-methylph...	10.862	198	9155	9.90	ppb	88
71) n-Nitrosodiphenylamine	10.926	169	47750	9.45	ppb	97
72) 1,2-Diphenylhydrazine	10.953	77	78911	9.54	ppb	95
74) 4-Bromophenyl-phenylether	11.467	248	15706	9.24	ppb	93
75) Hexachlorobenzene	11.643	284	16894	9.33	ppb	92
76) Pentachlorophenol	11.953	266	21345	18.74	ppb	99
77) Phenanthrene	12.135	178	95276	9.42	ppb	99
78) Anthracene	12.205	178	96632	9.51	ppb	98
79) Carbazole	12.510	167	86592	9.29	ppb	99
80) Di-n-butylphthalate	13.301	149	111776	9.76	ppb	99
81) Fluoranthene	13.959	202	92730	9.53	ppb	97
82) Octadecane	12.183	71	28412	10.04	ppb	88

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
 Data File : 2p2046.D  
 Acq On : 21 Oct 2010 2:26 pm  
 Operator : kristis  
 Sample : ic117-10  
 Misc : op45931,e2p117,1000,,,1,1  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 14:49:41 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 14:24:07 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	14.259	202	100838	9.64	ppb	98
86) Butylbenzylphthalate	15.355	149	48787	9.89	ppb	94
87) Butyl stearate	15.473	285	5687	8.32	ppb #	30
88) Benzo[a]anthracene	15.879	228	85584	9.49	ppb	99
89) 3,3'-Dichlorobenzidine	15.922	252	31565	9.81	ppb	96
90) Chrysene	15.933	228	86569	9.66	ppb	99
91) bis(2-Ethylhexyl)phtha...	16.173	149	67001	9.80	ppb	96
93) Di-n-octylphthalate	16.895	149	110182	9.34	ppb	95
94) Benzo[b]fluoranthene	17.152	252	82723	9.13	ppb	97
95) Benzo[k]fluoranthene	17.179	252	82774	9.83	ppb	96
96) Benzo[a]pyrene	17.489	252	71078	9.09	ppb	98
97) Indeno[1,2,3-cd]pyrene	18.634	276	85173	9.29	ppb	95
98) Dibenz(a,h)acridine	18.409	279	58843	9.13	ppb	100
99) Dibenz[a,h]anthracene	18.666	278	69827	9.26	ppb	99
100) 7,12-Dimethylbenz(a)an...	17.184	256	31138	9.38	ppb	97
101) Benzo[g,h,i]perylene	18.917	276	71487	9.20	ppb	99

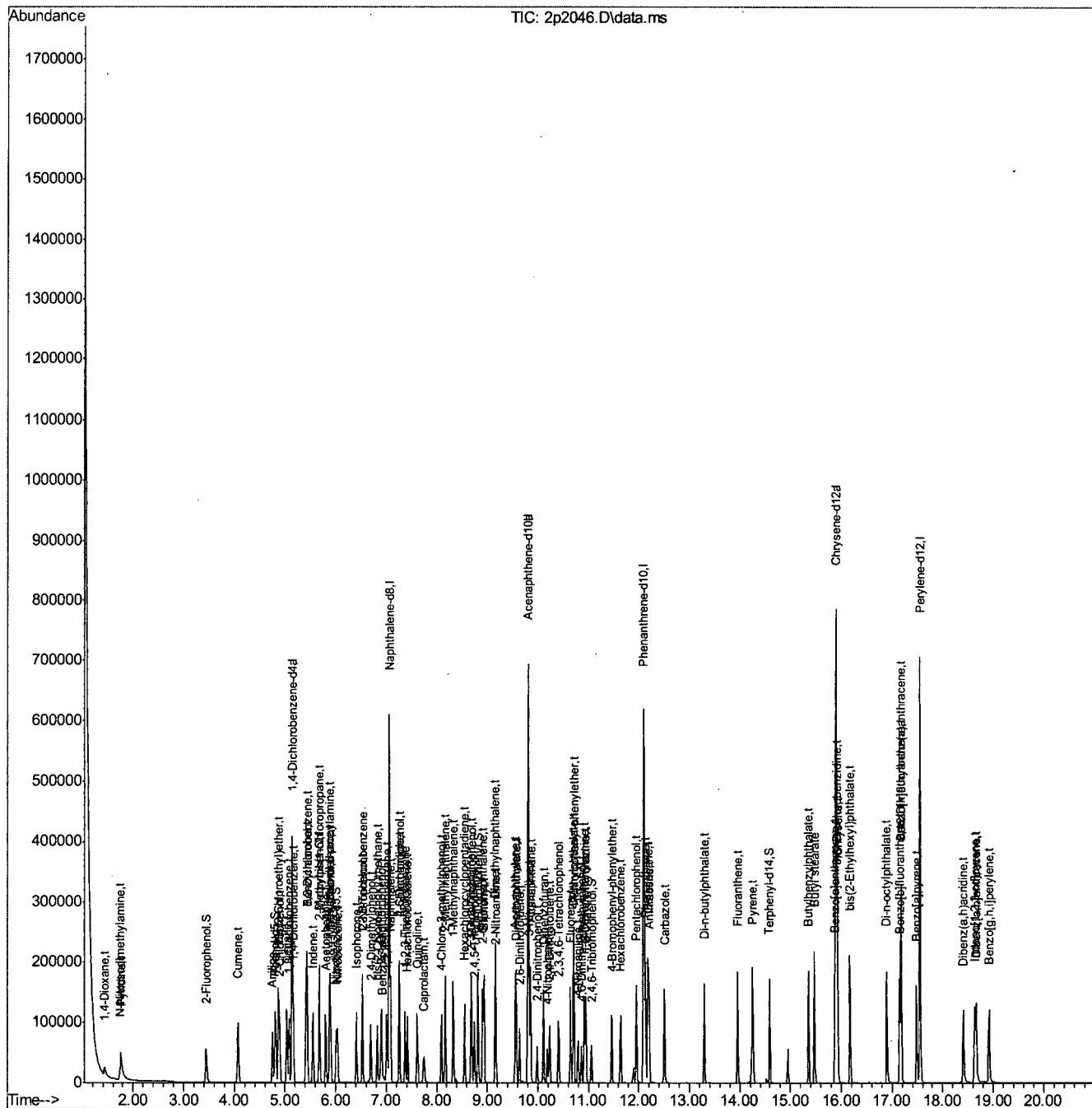
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.8  
8

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p117\  
Data File : 2p2046.D  
Acq On : 21 Oct 2010 2:26 pm  
Operator : kristis  
Sample : ic117-10  
Misc : op45931,e2p117,1000,,,1  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 14:49:41 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 14:24:07 2010  
Response via : Initial Calibration



M2P117.M Thu Oct 21 21:31:23 2010 RPT1

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## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2048.D  
 Acq On : 21 Oct 2010 3:16 pm  
 Operator : kristis  
 Sample : ic118-100  
 Misc : op45931,e2p118,1000,,,1,1  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 19:11:33 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 14:49:51 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.150	152	53627	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	206101	40.00	ppb	0.00
47) Acenaphthene-d10	9.809	164	118276	40.00	ppb	0.00
69) Phenanthrene-d10	12.098	188	189724	40.00	ppb	0.00
83) Chrysene-d12	15.895	240	171628	40.00	ppb	0.00
92) Perylene-d12	17.553	264	141970	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.150	152	53627	40.00	ppb	0.00
104) Acenaphthene-d10a	9.809	164	118276	40.00	ppb	0.00
106) Chrysene-d12a	15.895	240	171628	40.00	ppb	0.00
108) Acenaphthene-d10b	9.809	164	118276	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	4.540	105	99730	100.00	ppb	Qvalue 96
105) Atrazine	11.905	215	46449	100.00	ppb	94
107) Benzidine	14.237	184	153913	100.00	ppb	99
109) 1,2,4,5-Tetrachloroben...	8.504	216	143760	100.00	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

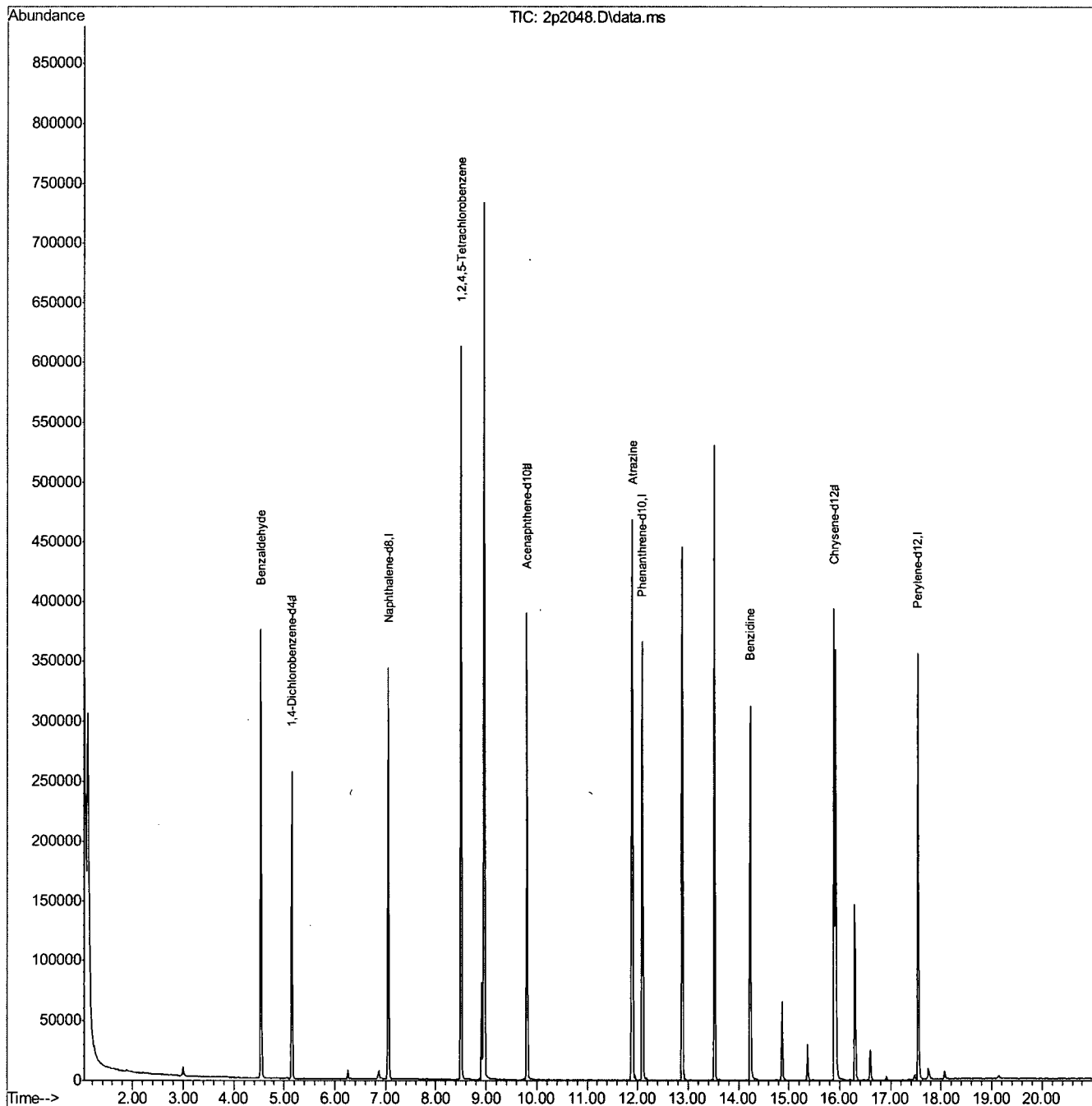
8.6.9  
8



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2048.D  
Acq On : 21 Oct 2010 3:16 pm  
Operator : kristis  
Sample : ic118-100  
Misc : op45931,e2p118,1000,,,1,1  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 19:11:33 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 14:49:51 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2049.D  
 Acq On : 21 Oct 2010 3:42 pm  
 Operator : kristis  
 Sample : ic118-80  
 Misc : op45931,e2p118,1000,,,1,1  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 19:12:21 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 14:49:51 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.150	152	55032	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	213699	40.00	ppb	0.00
47) Acenaphthene-d10	9.809	164	123871	40.00	ppb	0.00
69) Phenanthrene-d10	12.103	188	199943	40.00	ppb	0.00
83) Chrysene-d12	15.901	240	187802	40.00	ppb	0.00
92) Perylene-d12	17.553	264	160695	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.150	152	55032	40.00	ppb	0.00
104) Acenaphthene-d10a	9.809	164	123871	40.00	ppb	0.00
106) Chrysene-d12a	15.901	240	187802	40.00	ppb	0.00
108) Acenaphthene-d10b	9.809	164	123871	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	4.540	105	102888	100.53	ppb	Qvalue 96
105) Atrazine	11.905	215	43173	88.75	ppb	96
107) Benzidine	14.237	184	158771	94.27	ppb	98
109) 1,2,4,5-Tetrachloroben...	8.504	216	129828	86.23	ppb	100

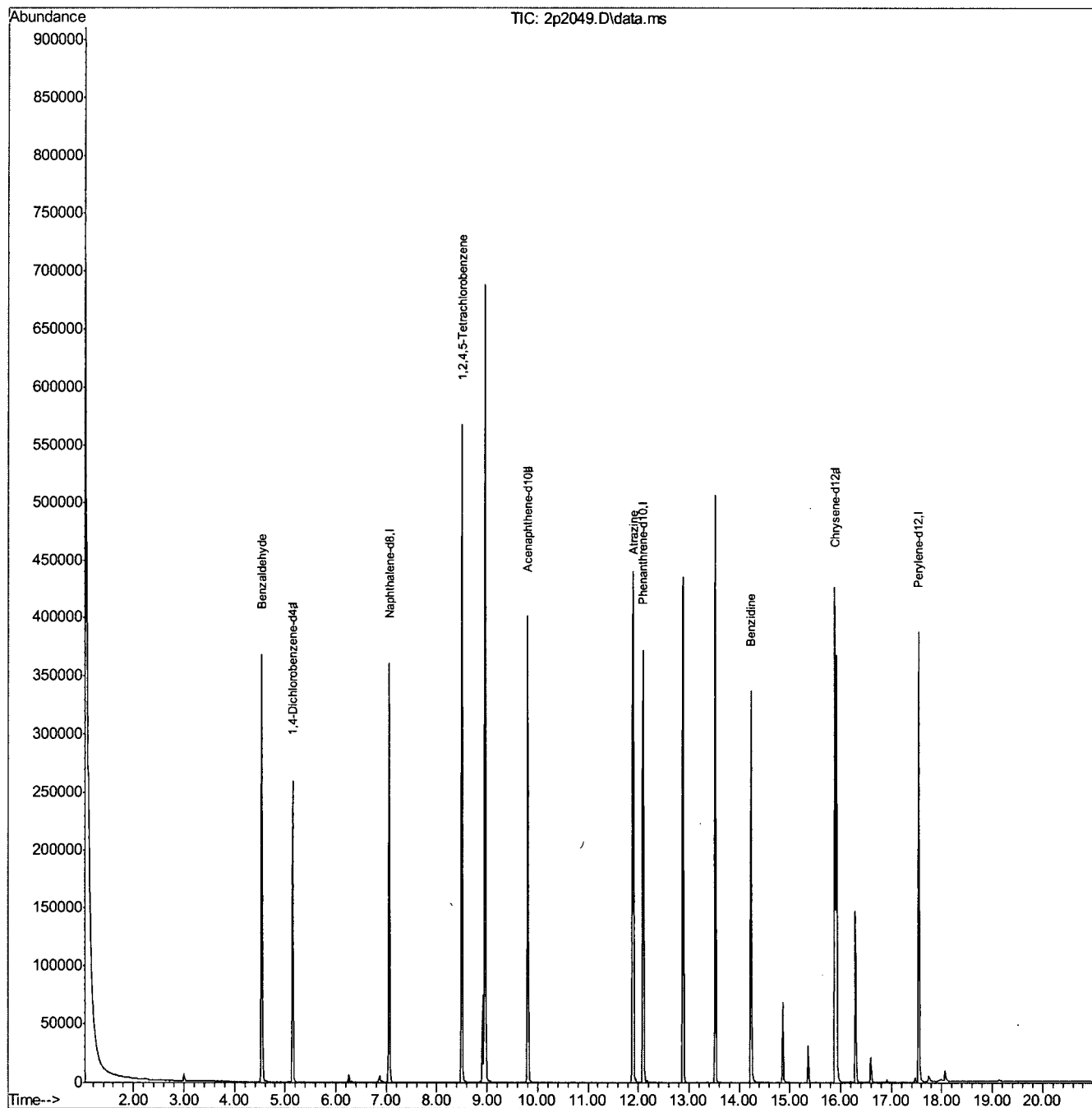
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.10  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2049.D  
Acq On : 21 Oct 2010 3:42 pm  
Operator : kristis  
Sample : ic118-80  
Misc : op45931,e2p118,1000,,,1,1  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 19:12:21 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 14:49:51 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2050.D  
 Acq On : 21 Oct 2010 4:08 pm  
 Operator : kristis  
 Sample : icc118-50  
 Misc : op45931,e2p118,1000,,,1,1  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 19:13:12 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 14:49:51 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.145	152	46757	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	176890	40.00	ppb	0.00
47) Acenaphthene-d10	9.809	164	101484	40.00	ppb	0.00
69) Phenanthrene-d10	12.098	188	164288	40.00	ppb	0.00
83) Chrysene-d12	15.901	240	155042	40.00	ppb	0.00
92) Perylene-d12	17.553	264	132638	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.145	152	46757	40.00	ppb	0.00
104) Acenaphthene-d10a	9.809	164	101484	40.00	ppb	0.00
106) Chrysene-d12a	15.901	240	155042	40.00	ppb	0.00
108) Acenaphthene-d10b	9.809	164	101484	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	4.529	105	56691	65.20	ppb	Qvalue 96
105) Atrazine	11.895	215	20618	51.73	ppb	92
107) Benzidine	14.232	184	85782	61.70	ppb	98
109) 1,2,4,5-Tetrachloroben...	8.503	216	64032	51.91	ppb	99

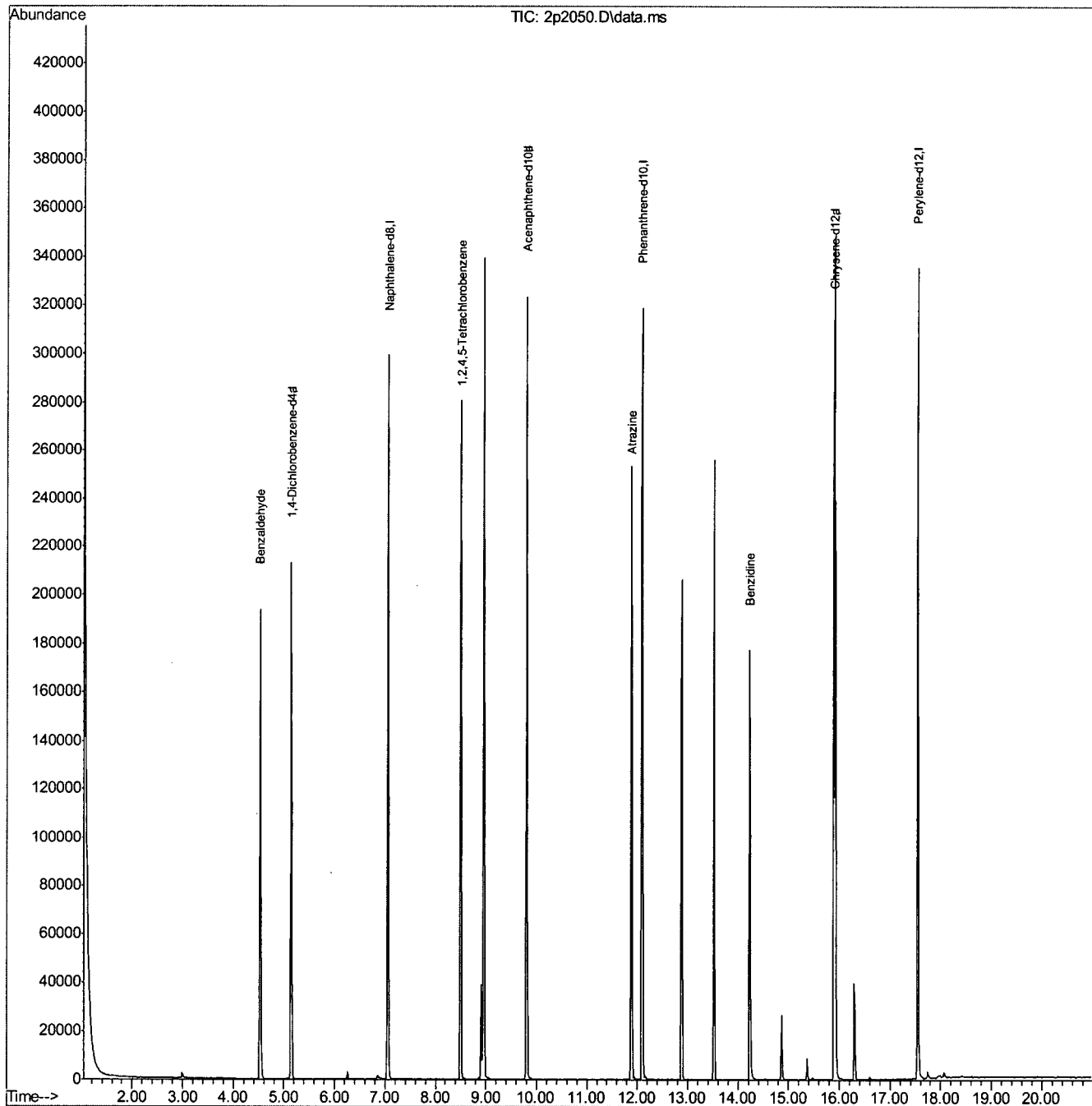
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.11  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2050.D  
Acq On : 21 Oct 2010 4:08 pm  
Operator : kristis  
Sample : icc118-50  
Misc : op45931,e2p118,1000,,,1,1  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 19:13:12 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 14:49:51 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2051.D  
 Acq On : 21 Oct 2010 4:34 pm  
 Operator : kristis  
 Sample : ic118-25  
 Misc : op45931,e2p118,1000,,,1,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 19:15:30 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 14:49:51 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.145	152	51228	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	192519	40.00	ppb	0.00
47) Acenaphthene-d10	9.809	164	108800	40.00	ppb	0.00
69) Phenanthrene-d10	12.098	188	173512	40.00	ppb	0.00
83) Chrysene-d12	15.895	240	161255	40.00	ppb	0.00
92) Perylene-d12	17.553	264	135547	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.145	152	51228	40.00	ppb	0.00
104) Acenaphthene-d10a	9.809	164	108800	40.00	ppb	0.00
106) Chrysene-d12a	15.895	240	161255	40.00	ppb	0.00
108) Acenaphthene-d10b	9.809	164	108800	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	4.535	105	32293	33.90	ppb	Qvalue 97
105) Atrazine	11.884	215	10254	24.00	ppb	86
107) Benzidine	14.232	184	52124	36.04	ppb	97
109) 1,2,4,5-Tetrachloroben...	8.498	216	33985	25.70	ppb	98

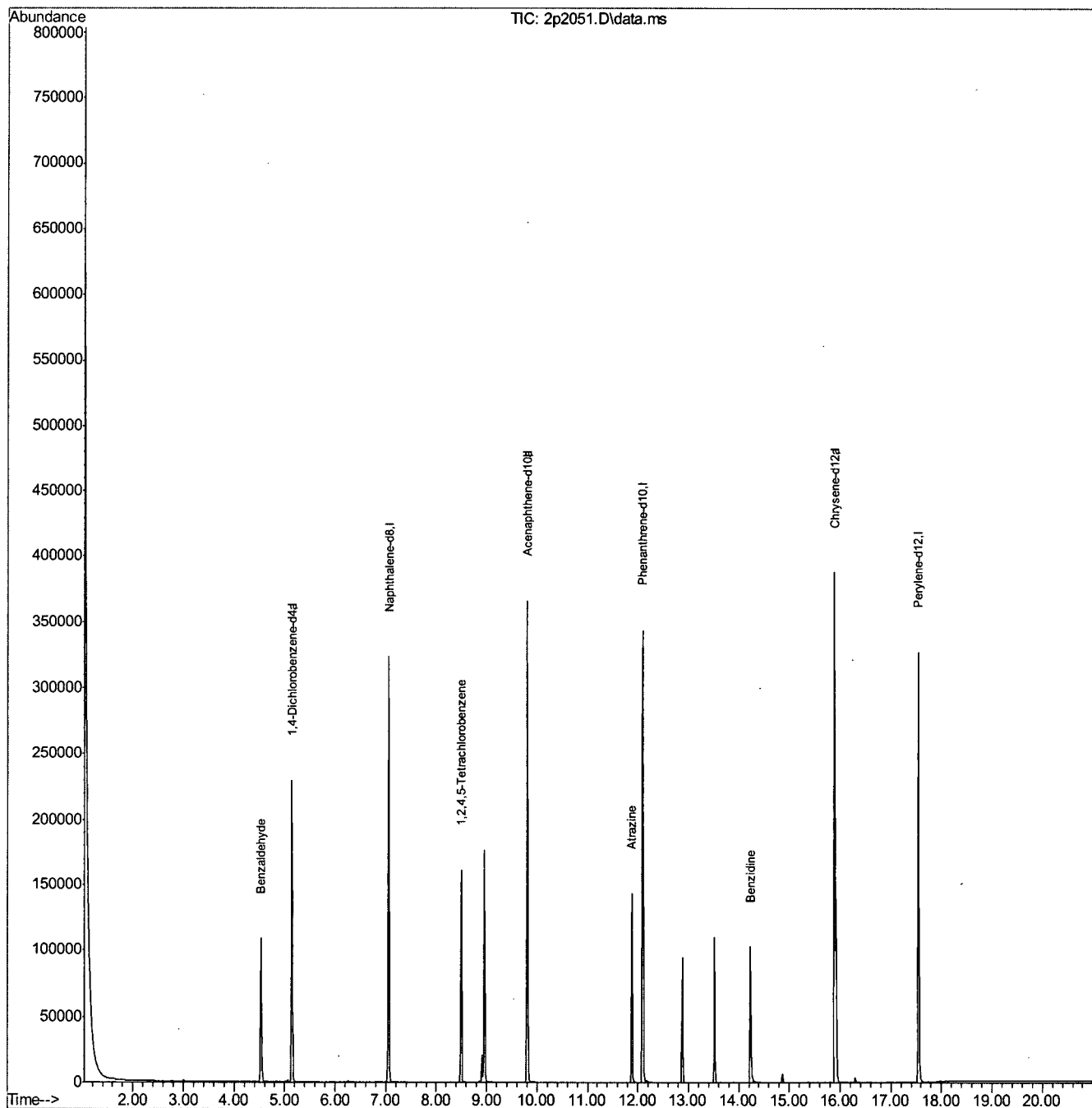
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.12  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2051.D  
Acq On : 21 Oct 2010 4:34 pm  
Operator : kristis  
Sample : ic118-25  
Misc : op45931,e2p118,1000,,,1,1  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 19:15:30 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 14:49:51 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2052.D  
 Acq On : 21 Oct 2010 5:00 pm  
 Operator : kristis  
 Sample : ic118-10  
 Misc : op45931,e2p118,1000,,,1,1  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 19:16:44 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 14:49:51 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.144	152	56166	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	212570	40.00	ppb	0.00
47) Acenaphthene-d10	9.808	164	121065	40.00	ppb	0.00
69) Phenanthrene-d10	12.098	188	192181	40.00	ppb	0.00
83) Chrysene-d12	15.895	240	182327	40.00	ppb	0.00
92) Perylene-d12	17.553	264	153117	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.144	152	56166	40.00	ppb	0.00
104) Acenaphthene-d10a	9.808	164	121065	40.00	ppb	0.00
106) Chrysene-d12a	15.895	240	182327	40.00	ppb	0.00
108) Acenaphthene-d10b	9.808	164	121065	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	4.535	105	13384	12.81	ppb	Qvalue 96
105) Atrazine	11.878	215	3885	8.17	ppb	# 80
107) Benzidine	14.232	184	18774	11.48	ppb	95
109) 1,2,4,5-Tetrachloroben...	8.498	216	13849	9.41	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

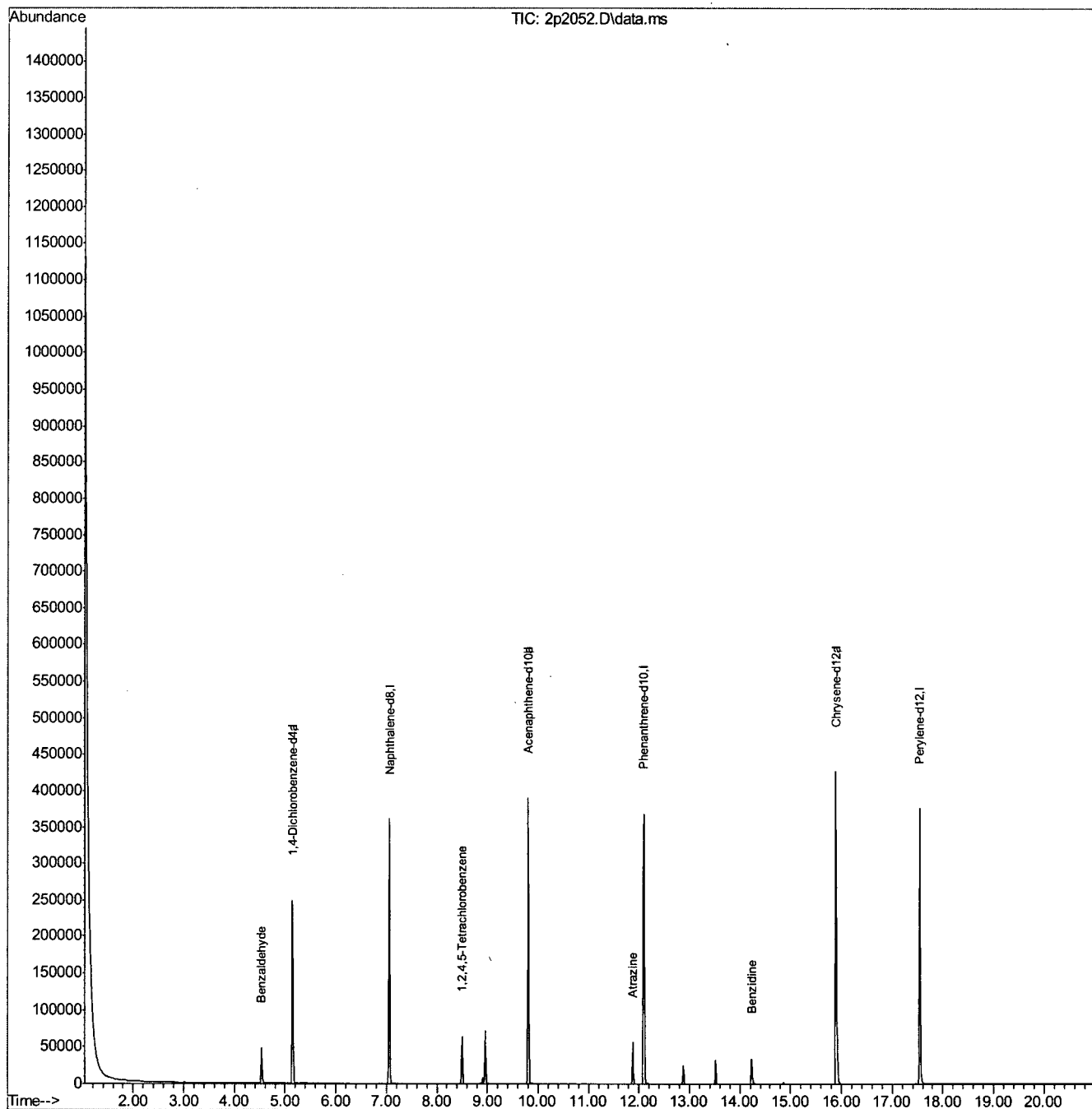
8.6.13  
8



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2052.D  
Acq On : 21 Oct 2010 5:00 pm  
Operator : kristis  
Sample : ic118-10  
Misc : op45931,e2p118,1000,,,1,1  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 19:16:44 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 14:49:51 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2053.D  
 Acq On : 21 Oct 2010 5:26 pm  
 Operator : kristis  
 Sample : ic118-5  
 Misc : op45931,e2p118,1000,,,1,1  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 19:17:28 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 14:49:51 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.150	152	56199	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	210347	40.00	ppb	0.00
47) Acenaphthene-d10	9.809	164	118347	40.00	ppb	0.00
69) Phenanthrene-d10	12.098	188	188509	40.00	ppb	0.00
83) Chrysene-d12	15.895	240	177293	40.00	ppb	0.00
92) Perylene-d12	17.554	264	150122	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.150	152	56199	40.00	ppb	0.00
104) Acenaphthene-d10a	9.809	164	118347	40.00	ppb	0.00
106) Chrysene-d12a	15.895	240	177293	40.00	ppb	0.00
108) Acenaphthene-d10b	9.809	164	118347	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	4.535	105	6803	6.51	ppb	Qvalue 97
105) Atrazine	11.879	215	1642	3.53	ppb	82
107) Benzidine	14.232	184	7680	4.83	ppb	94
109) 1,2,4,5-Tetrachloroben...	8.498	216	6932	4.82	ppb	99
-----						

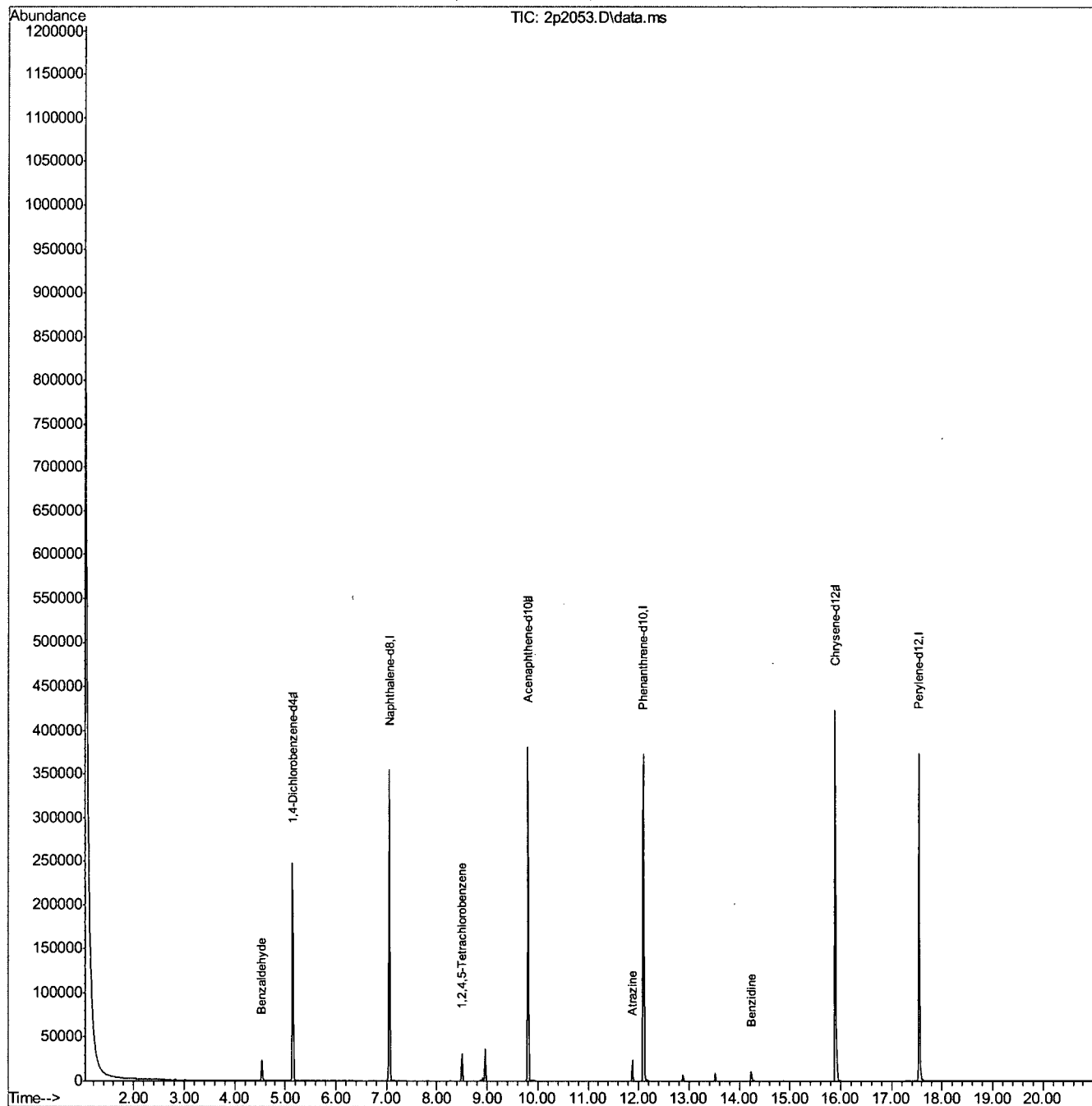
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.14  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2053.D  
Acq On : 21 Oct 2010 5:26 pm  
Operator : kristis  
Sample : ic118-5  
Misc : op45931,e2p118,1000,,,1,1  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 19:17:28 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 14:49:51 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2054.D  
 Acq On : 21 Oct 2010 5:52 pm  
 Operator : kristis  
 Sample : ic118-2  
 Misc : op45931,e2p118,1000,,,1,1  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 19:18:18 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 14:49:51 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.145	152	56981	40.00	ppb	0.00
24) Naphthalene-d8	7.060	136	217587	40.00	ppb	0.00
47) Acenaphthene-d10	9.814	164	125900	40.00	ppb	0.00
69) Phenanthrene-d10	12.103	188	199179	40.00	ppb	0.00
83) Chrysene-d12	15.901	240	185125	40.00	ppb	0.00
92) Perylene-d12	17.554	264	154802	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.145	152	56981	40.00	ppb	0.00
104) Acenaphthene-d10a	9.814	164	125900	40.00	ppb	0.00
106) Chrysene-d12a	15.901	240	185125	40.00	ppb	0.00
108) Acenaphthene-d10b	9.814	164	125900	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	4.535	105	2806	2.65	ppb	Qvalue 97
105) Atrazine	11.879	215	589	1.19	ppb	90
107) Benzidine	14.237	184	2212	1.33	ppb	87
109) 1,2,4,5-Tetrachloroben...	8.498	216	2986	1.95	ppb	98

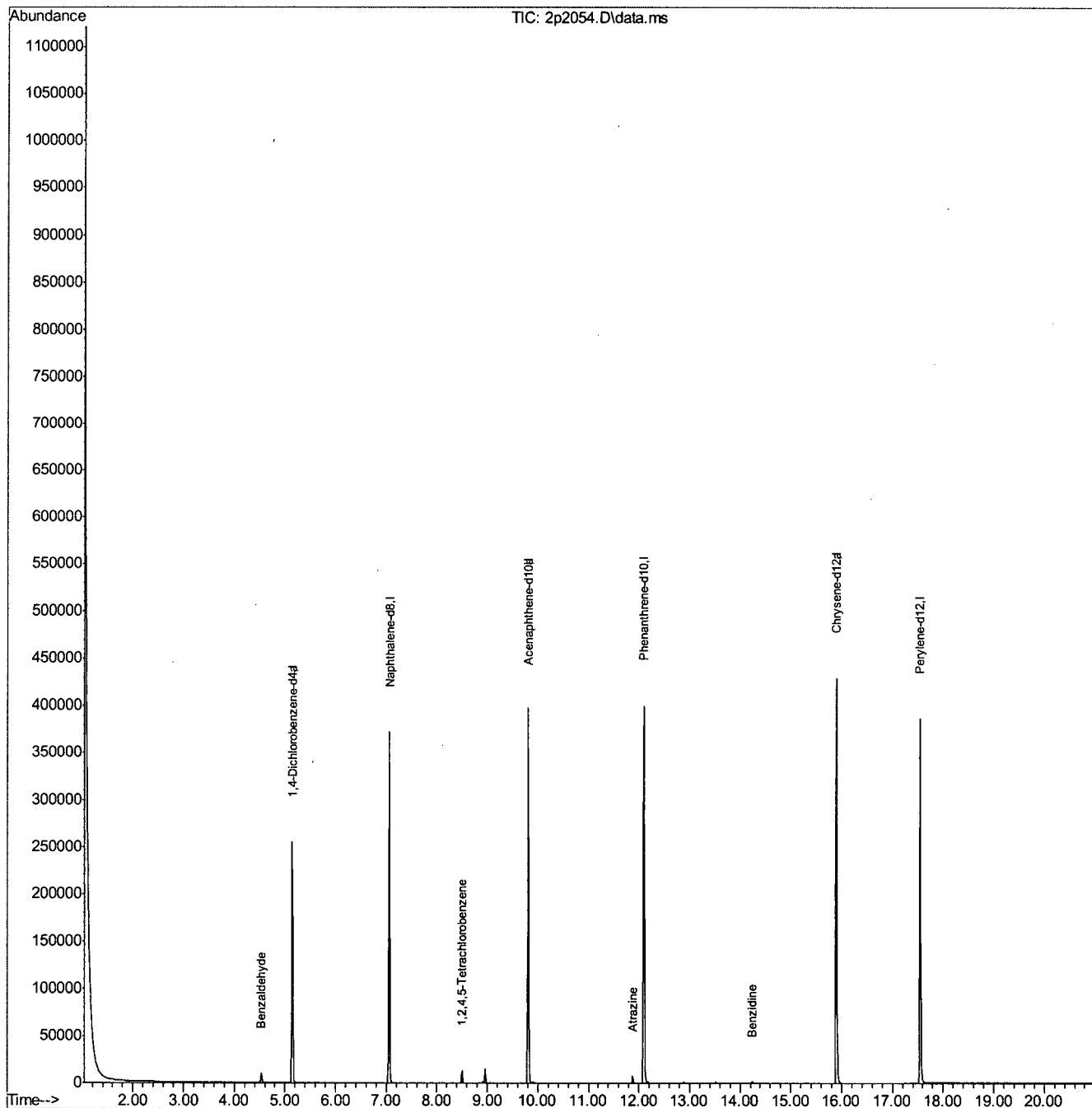
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.15  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2054.D  
Acq On : 21 Oct 2010 5:52 pm  
Operator : kristis  
Sample : ic118-2  
Misc : op45931,e2p118,1000,,,1,1  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 19:18:18 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 14:49:51 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2055.D  
 Acq On : 21 Oct 2010 6:17 pm  
 Operator : kristis  
 Sample : ic118-1  
 Misc : op45931,e2p118,1000,,,1,1  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 19:19:03 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 14:49:51 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.145	152	55353	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	209690	40.00	ppb	0.00
47) Acenaphthene-d10	9.809	164	119346	40.00	ppb	0.00
69) Phenanthrene-d10	12.098	188	188142	40.00	ppb	0.00
83) Chrysene-d12	15.895	240	176802	40.00	ppb	0.00
92) Perylene-d12	17.553	264	146540	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.145	152	55353	40.00	ppb	0.00
104) Acenaphthene-d10a	9.809	164	119346	40.00	ppb	0.00
106) Chrysene-d12a	15.895	240	176802	40.00	ppb	0.00
108) Acenaphthene-d10b	9.809	164	119346	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	4.540	105	902	0.88	ppb	Qvalue 92
105) Atrazine	11.878	215	155	0.33	ppb	# 51
107) Benzidine	14.243	184	398	0.25	ppb	67
109) 1,2,4,5-Tetrachloroben...	8.498	216	1022	0.70	ppb	95
-----						

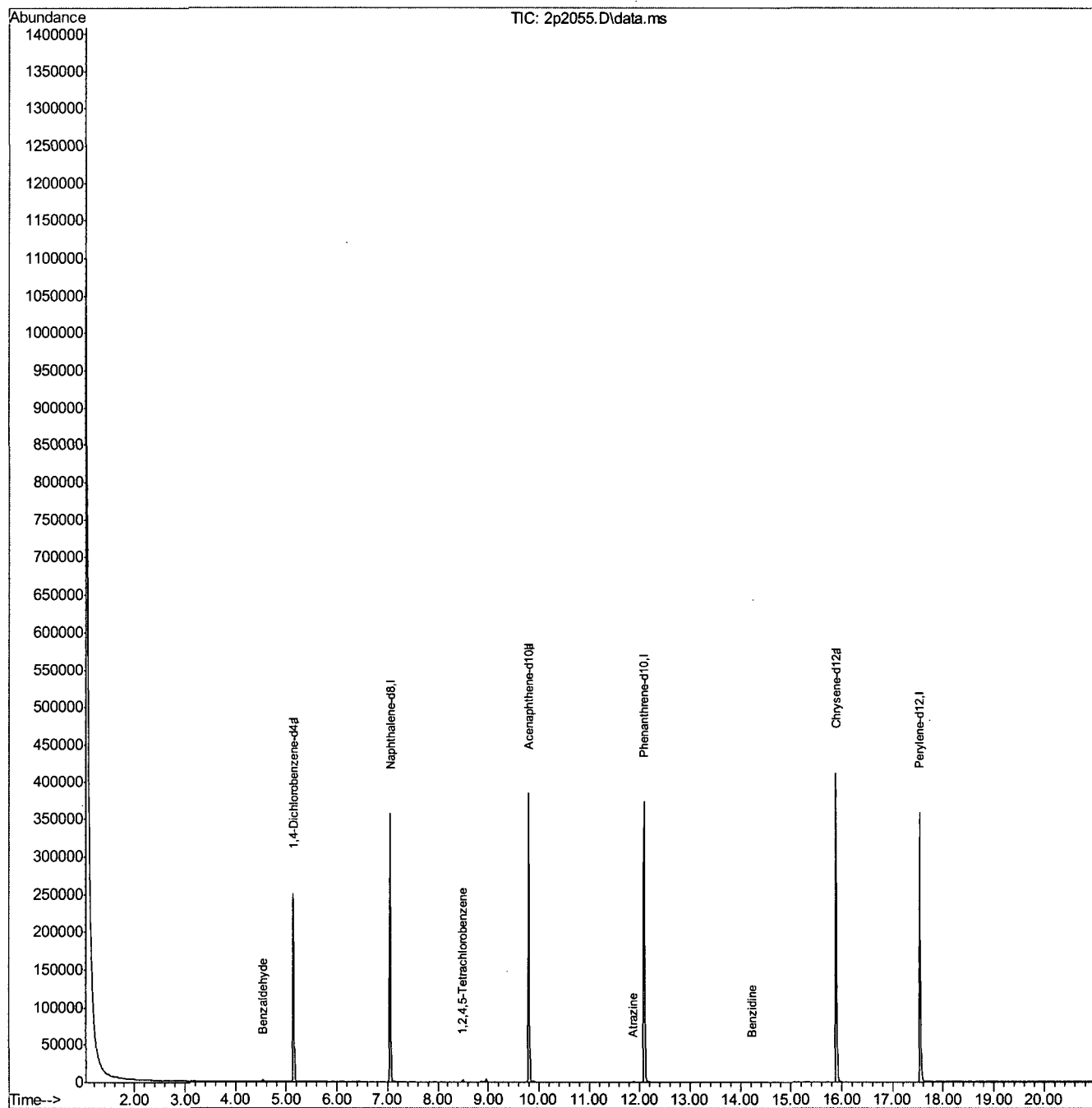
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.16  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2055.D  
Acq On : 21 Oct 2010 6:17 pm  
Operator : kristis  
Sample : ic118-1  
Misc : op45931,e2p118,1000,,,1,1  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 19:19:03 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 14:49:51 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2057.D  
 Acq On : 21 Oct 2010 7:09 pm  
 Operator : kristis  
 Sample : icv117-50  
 Misc : op45931,e2p118,bn#1 2nd source  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 17:56:39 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.150	152	55755	40.00	ppb	0.00
24) Naphthalene-d8	7.065	136	203063	40.00	ppb	0.00
47) Acenaphthene-d10	9.814	164	110132	40.00	ppb	0.00
69) Phenanthrene-d10	12.103	188	166289	40.00	ppb	0.00
83) Chrysene-d12	15.901	240	160955	40.00	ppb	0.00
92) Perylene-d12	17.553	264	130949	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.150	152	55755	40.00	ppb	0.00
104) Acenaphthene-d10a	9.814	164	110132	40.00	ppb	0.00
106) Chrysene-d12a	15.901	240	160955	40.00	ppb	0.00
108) Acenaphthene-d10b	9.814	164	110132	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
3) Pyridine	1.732	79	109589	54.09	ppb	Qvalue 96
4) N-Nitrosodimethylamine	1.738	74	64602	54.73	ppb	92
11) bis(2-Chloroethyl)ether	4.877	93	97415	49.12	ppb	98
14) 1,3-Dichlorobenzene	5.091	146	111513	51.66	ppb	99
15) 1,4-Dichlorobenzene	5.171	146	115039	52.18	ppb	100
16) Benzyl alcohol	5.444	108	66817	49.87	ppb	97
17) 1,2-Dichlorobenzene	5.439	146	109522	51.83	ppb	100
20) 2,2'-oxybis(1-Chloropr...	5.685	121	34126	50.65	ppb	# 68
22) n-Nitroso-di-n-propyla...	5.888	70	69538	50.59	ppb	96
23) Hexachloroethane	5.888	201	35960	53.41	ppb	98
26) Nitrobenzene	6.043	123	48757	51.12	ppb	90
28) Isophorone	6.418	82	192935	55.39	ppb	97
32) bis(2-Chloroethoxy)met...	6.829	93	120133	54.88	ppb	99
36) 1,2,4-Trichlorobenzene	7.017	180	85983	53.50	ppb	97
38) Naphthalene	7.092	128	292135	51.85	ppb	99
42) Hexachlorobutadiene	7.428	225	43398	53.76	ppb	98
44) 2-Methylnaphthalene	8.172	142	185979	49.16	ppb	96
48) Hexachlorocyclopentadiene	8.557	237	39936	63.25	ppb	100
52) 2-Chloronaphthalene	8.915	162	168753	52.57	ppb	98
54) 2-Nitroaniline	9.178	65	51516	48.69	ppb	93
55) Dimethylphthalate	9.579	163	184534	50.75	ppb	100
56) Acenaphthylene	9.563	152	260382	50.94	ppb	99
57) 2,6-Dinitrotoluene	9.648	165	39421	53.31	ppb	90



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2057.D  
 Acq On : 21 Oct 2010 7:09 pm  
 Operator : kristis  
 Sample : icv117-50  
 Misc : op45931,e2p118,bn#1 2nd source  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 17:56:39 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

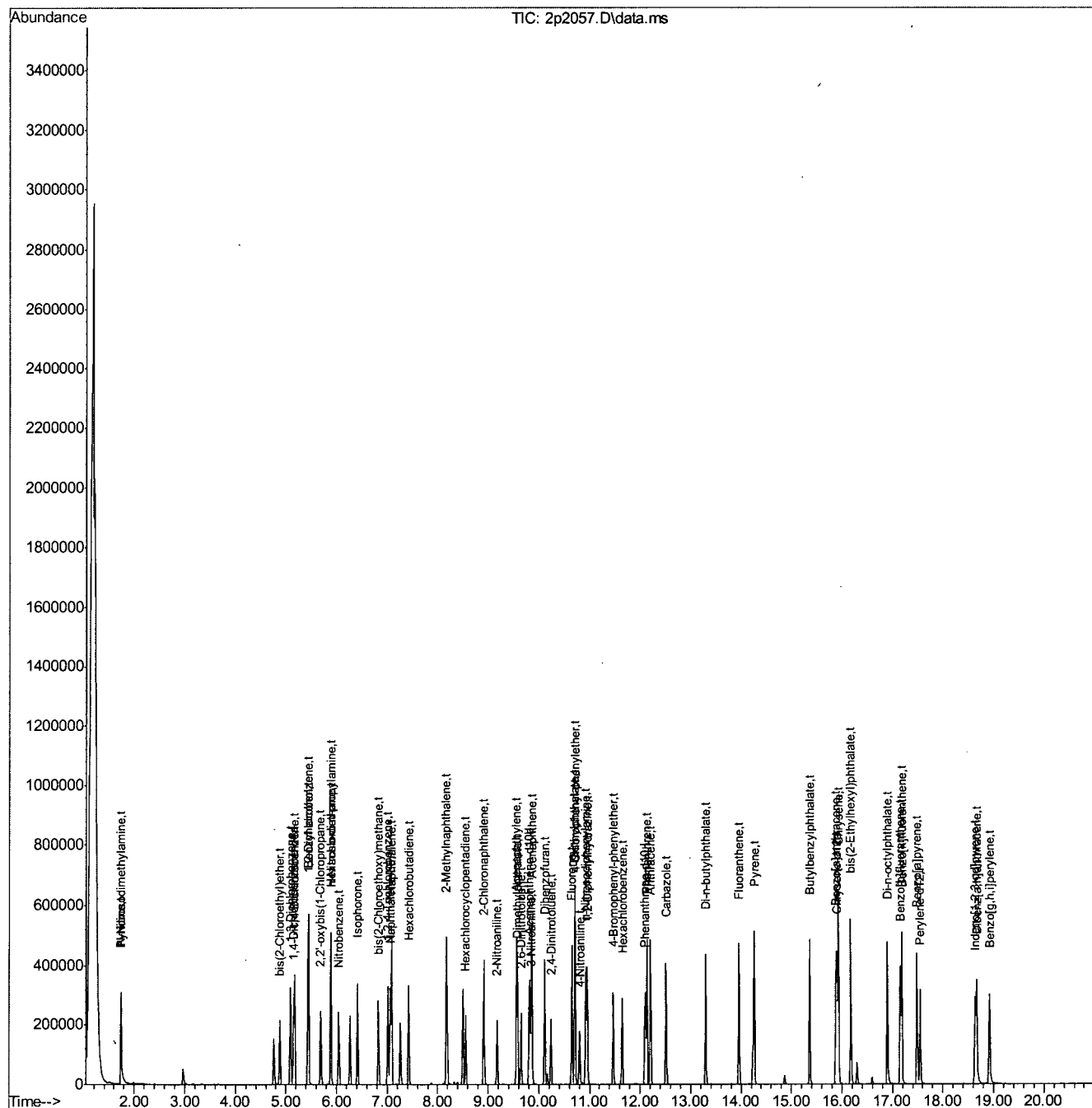
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 3-Nitroaniline	9.841	138	45076	44.57	ppb	89
59) Acenaphthene	9.862	153	178925	53.33	ppb	100
62) Dibenzofuran	10.119	168	233903	51.42	ppb	92
63) 2,4-Dinitrotoluene	10.242	165	49943	48.60	ppb	89
65) Diethylphthalate	10.713	149	196676	52.07	ppb	98
66) Fluorene	10.654	166	191843	54.44	ppb	99
67) 4-Chlorophenyl-phenyle...	10.723	204	87268	52.87	ppb	99
68) 4-Nitroaniline	10.809	138	46960	49.98	ppb	94
71) n-Nitrosodiphenylamine	10.932	169	132444	53.28	ppb	99
72) 1,2-Diphenylhydrazine	10.959	77	232479	57.10	ppb	95
74) 4-Bromophenyl-phenylether	11.472	248	44606	53.49	ppb	95
75) Hexachlorobenzene	11.649	284	46566	52.36	ppb	94
77) Phenanthrene	12.141	178	265445	53.39	ppb	99
78) Anthracene	12.205	178	268884	53.76	ppb	99
79) Carbazole	12.515	167	242516	53.00	ppb	99
80) Di-n-butylphthalate	13.301	149	302087	53.40	ppb	99
81) Fluoranthene	13.965	202	253156	52.85	ppb	98
84) Pyrene	14.264	202	275749	55.78	ppb	98
86) Butylbenzylphthalate	15.361	149	127895	54.71	ppb	97
88) Benzo[a]anthracene	15.885	228	218894	51.47	ppb	99
90) Chrysene	15.933	228	230227	54.33	ppb	99
91) bis(2-Ethylhexyl)phtha...	16.174	149	175970	54.38	ppb	97
93) Di-n-octylphthalate	16.901	149	289877	55.21	ppb	97
94) Benzo[b]fluoranthene	17.158	252	216155	55.89	ppb	98
95) Benzo[k]fluoranthene	17.190	252	202892	50.49	ppb	97
96) Benzo[a]pyrene	17.489	252	196089	56.54	ppb	99
97) Indeno[1,2,3-cd]pyrene	18.639	276	224689	55.11	ppb	94
99) Dibenz[a,h]anthracene	18.671	278	185884	55.44	ppb	98
101) Benzo[g,h,i]perylene	18.928	276	188767	54.71	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2057.D  
Acq On : 21 Oct 2010 7:09 pm  
Operator : kristis  
Sample : icv117-50  
Misc : op45931,e2p118,bn#1 2nd source  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 17:56:39 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2057a.D  
 Acq On : 21 Oct 2010 7:09 pm  
 Operator : kristis  
 Sample : icv118-50  
 Misc : op45931,e2p118,bn#1 2nd source  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 18:01:38 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.150	152	55755	40.00	ppb	0.00
24) Naphthalene-d8	7.065	136	203063	40.00	ppb	0.00
47) Acenaphthene-d10	9.814	164	110132	40.00	ppb	0.00
69) Phenanthrene-d10	12.103	188	166289	40.00	ppb	0.00
83) Chrysene-d12	15.901	240	160955	40.00	ppb	0.00
92) Perylene-d12	17.553	264	130949	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.150	152	55755	40.00	ppb	0.00
104) Acenaphthene-d10a	9.814	164	110132	40.00	ppb	0.00
106) Chrysene-d12a	15.901	240	160955	40.00	ppb	0.00
108) Acenaphthene-d10b	9.814	164	110132	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
109) 1,2,4,5-Tetrachloroben...	8.504	216	74798	57.84	ppb	Qvalue 99

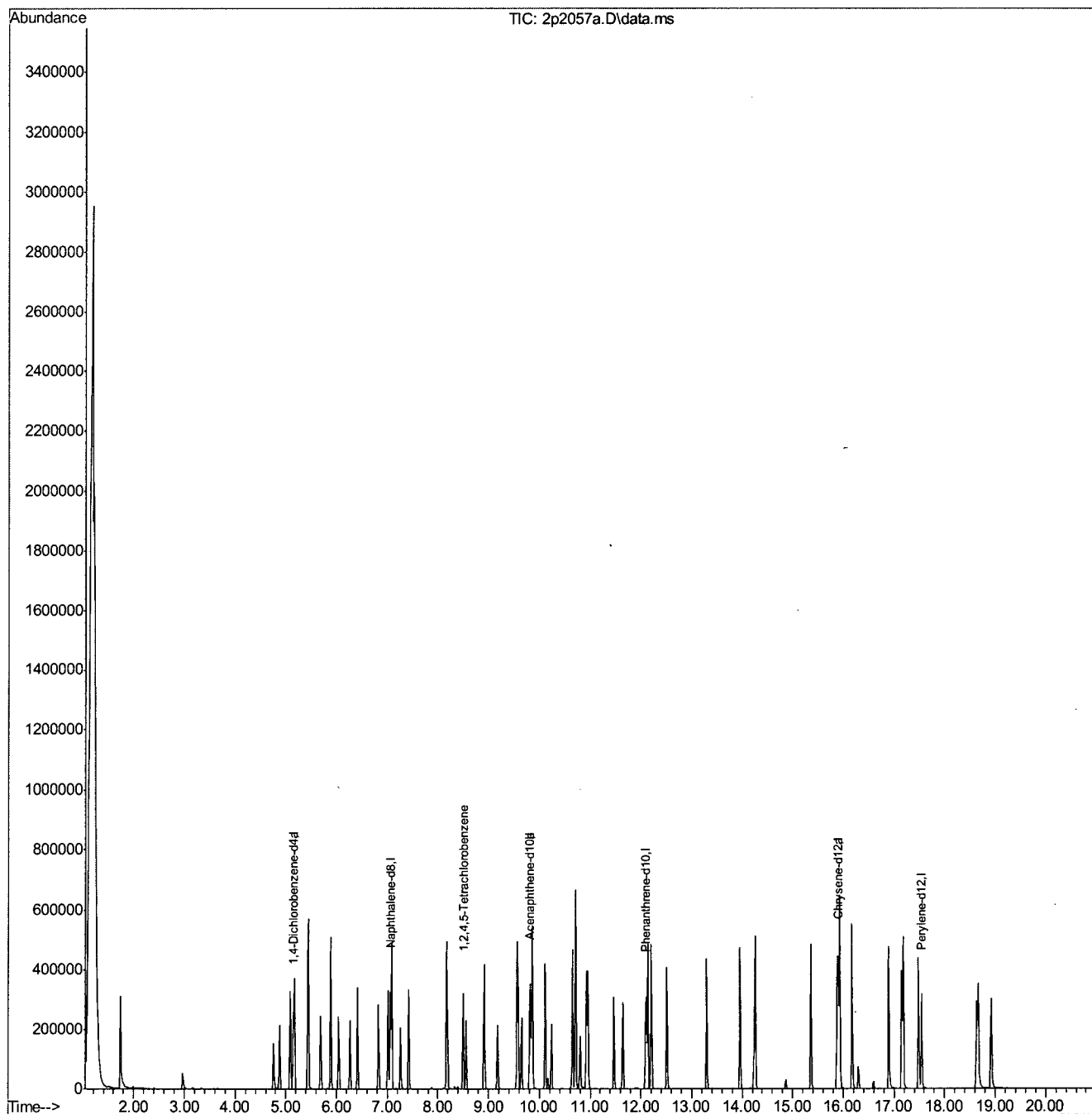
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.18  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2057a.D  
Acq On : 21 Oct 2010 7:09 pm  
Operator : kristis  
Sample : icv118-50  
Misc : op45931,e2p118,bn#1 2nd source  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 18:01:38 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2059.D  
 Acq On : 21 Oct 2010 8:00 pm  
 Operator : kristis  
 Sample : icv117-50  
 Misc : op45931,e2p118,3rd source  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 20:57:53 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.150	152	76313	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	291383	40.00	ppb	0.00
47) Acenaphthene-d10	9.814	164	163207	40.00	ppb	0.00
69) Phenanthrene-d10	12.103	188	256228	40.00	ppb	0.00
83) Chrysene-d12	15.901	240	241920	40.00	ppb	0.00
92) Perylene-d12	17.553	264	201020	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.150	152	76313	40.00	ppb	0.00
104) Acenaphthene-d10a	9.814	164	163207	40.00	ppb	0.00
106) Chrysene-d12a	15.901	240	241920	40.00	ppb	0.00
108) Acenaphthene-d10b	9.814	164	163207	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
10) Aniline	4.760	93	182677	53.02	ppb	Qvalue 90
39) 4-Chloroaniline	7.268	127	161306	46.69	ppb	98

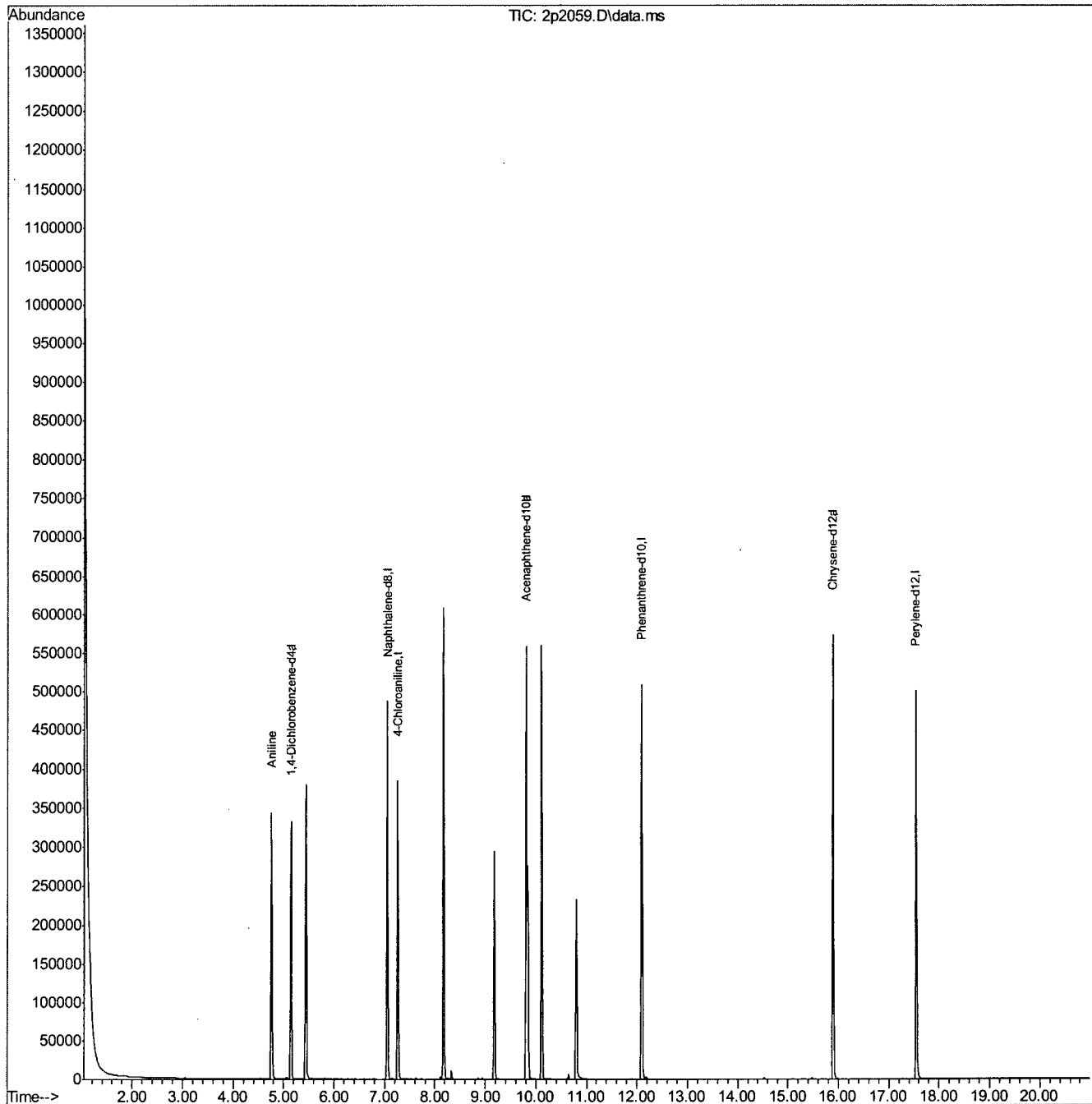
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.19  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2059.D  
Acq On : 21 Oct 2010 8:00 pm  
Operator : kristis  
Sample : icv117-50  
Misc : op45931,e2p118,3rd source  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 20:57:53 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2058.D  
 Acq On : 21 Oct 2010 8:26 pm  
 Operator : kristis  
 Sample : icv117-50  
 Misc : op45931,e2p118,bn#2 2nd source  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 18:02:28 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

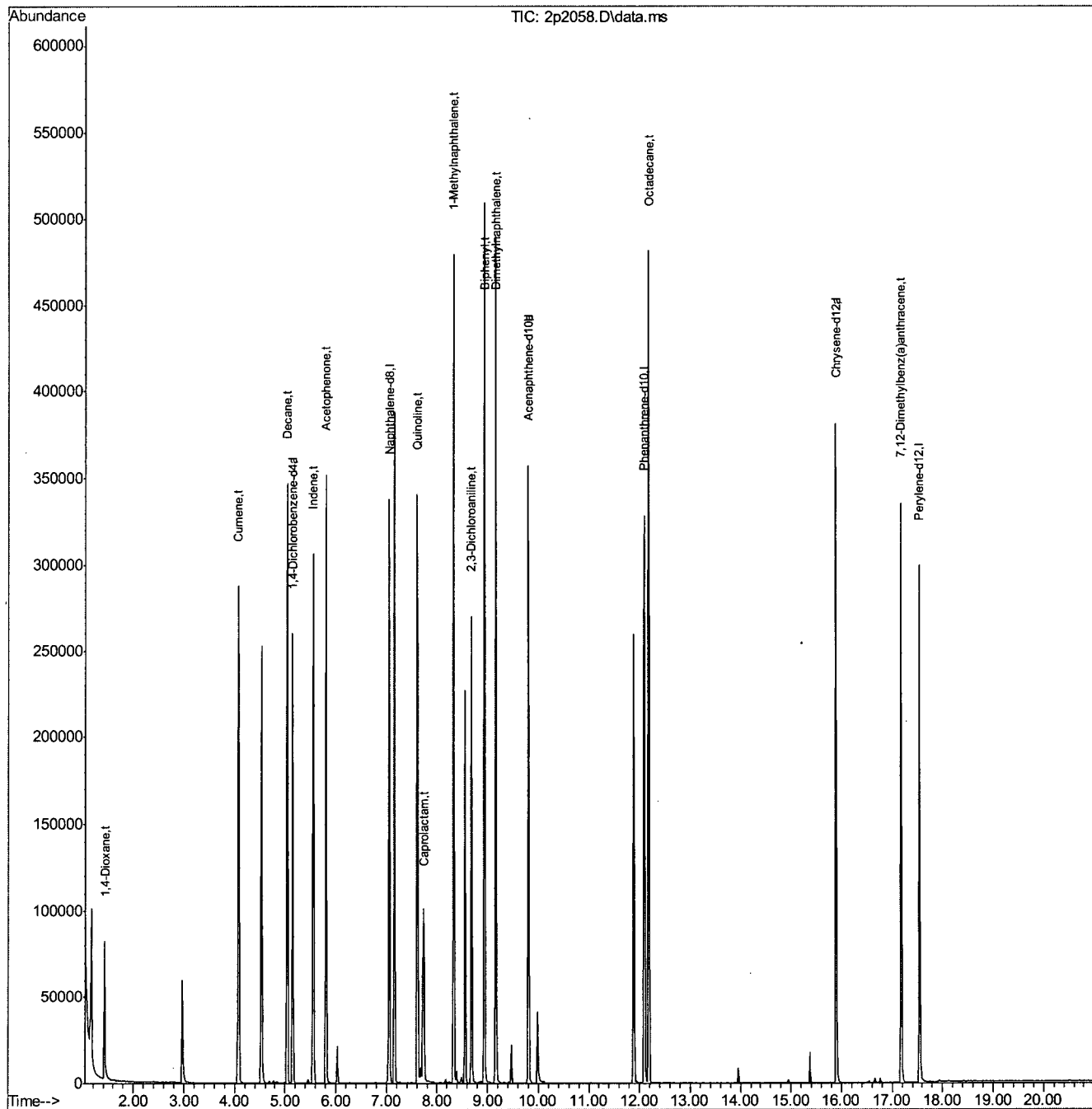
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.145	152	54433	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	198952	40.00	ppb	0.00
47) Acenaphthene-d10	9.809	164	110582	40.00	ppb	0.00
69) Phenanthrene-d10	12.098	188	166905	40.00	ppb	0.00
83) Chrysene-d12	15.895	240	147342	40.00	ppb	0.00
92) Perylene-d12	17.548	264	114426	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.145	152	54433	40.00	ppb	0.00
104) Acenaphthene-d10a	9.809	164	110582	40.00	ppb	0.00
106) Chrysene-d12a	15.895	240	147342	40.00	ppb	0.00
108) Acenaphthene-d10b	9.809	164	110582	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
2) 1,4-Dioxane	1.427	88	35190	53.75	ppb	Qvalue 98
6) Indene	5.556	116	124698	47.63	ppb	99
7) Cumene	4.075	105	160880	45.15	ppb	99
13) Decane	5.043	57	95179	50.04	ppb	96
18) Acetophenone	5.808	105	134813	52.88	ppb	98
27) Quinoline	7.616	129	176080	54.12	ppb	99
40) 2,3-Dichloroaniline	8.685	161	75925	44.39	ppb	99
41) Caprolactam	7.744	113	26885	47.06	ppb	97
45) 1-Methylnaphthalene	8.332	142	175011	51.39	ppb	98
46) Dimethylnaphthalene	9.167	156	156557	52.48	ppb	99
53) Biphenyl	8.942	154	213141	51.50	ppb	98
82) Octadecane	12.183	71	77984	55.41	ppb	90
100) 7,12-Dimethylbenz(a)an...	17.184	256	72102	55.82	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2058.D  
Acq On : 21 Oct 2010 8:26 pm  
Operator : kristis  
Sample : icv117-50  
Misc : op45931,e2p118,bn#2 2nd source  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 18:02:28 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2058a.D  
 Acq On : 21 Oct 2010 8:26 pm  
 Operator : kristis  
 Sample : icv118-50  
 Misc : op45931,e2p118,bn#2 2nd source  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 18:04:43 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.145	152	54433	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	198952	40.00	ppb	0.00
47) Acenaphthene-d10	9.809	164	110582	40.00	ppb	0.00
69) Phenanthrene-d10	12.098	188	166905	40.00	ppb	0.00
83) Chrysene-d12	15.895	240	147342	40.00	ppb	0.00
92) Perylene-d12	17.548	264	114426	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.145	152	54433	40.00	ppb	0.00
104) Acenaphthene-d10a	9.809	164	110582	40.00	ppb	0.00
106) Chrysene-d12a	15.895	240	147342	40.00	ppb	0.00
108) Acenaphthene-d10b	9.809	164	110582	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	4.529	105	69881	56.93	ppb	Qvalue 96
105) Atrazine	11.895	215	21582	48.46	ppb	92

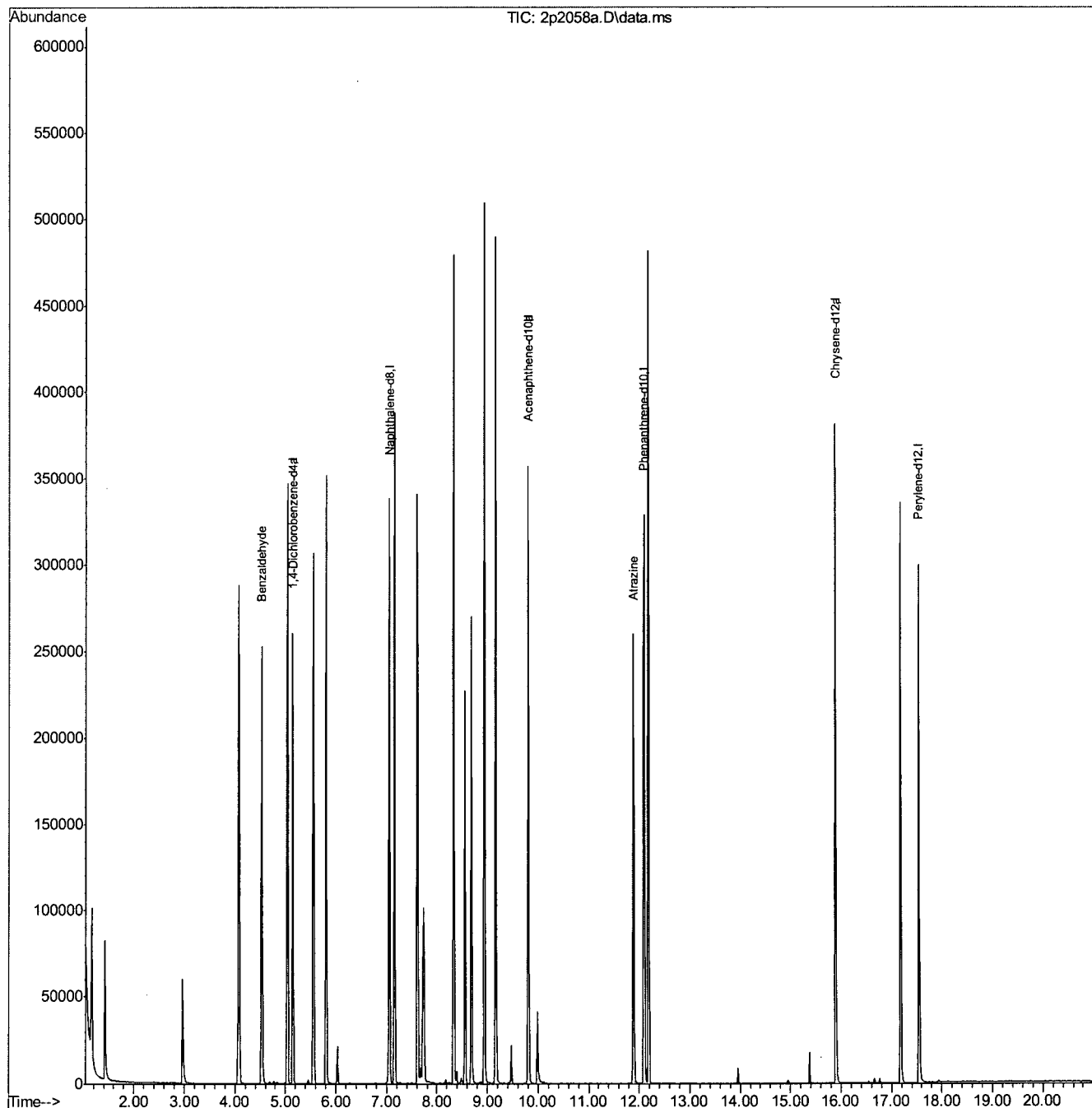
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.21  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2058a.D  
Acq On : 21 Oct 2010 8:26 pm  
Operator : kristis  
Sample : icv118-50  
Misc : op45931,e2p118,bn#2 2nd source  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 18:04:43 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
 Data File : 2p2060.D  
 Acq On : 21 Oct 2010 8:52 pm  
 Operator : kristis  
 Sample : icv117-50  
 Misc : op45931,e2p118,benzidine  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 21 21:24:19 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.144	152	51539	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	192515	40.00	ppb	0.00
47) Acenaphthene-d10	9.808	164	109769	40.00	ppb	0.00
69) Phenanthrene-d10	12.098	188	175532	40.00	ppb	0.00
83) Chrysene-d12	15.895	240	162775	40.00	ppb	0.00
92) Perylene-d12	17.548	264	131859	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.144	152	51539	40.00	ppb	0.00
104) Acenaphthene-d10a	9.808	164	109769	40.00	ppb	0.00
106) Chrysene-d12a	15.895	240	162775	40.00	ppb	0.00
108) Acenaphthene-d10b	9.808	164	109769	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
89) 3,3'-Dichlorobenzidine	15.927	252	76219	49.46	ppb	97
107) Benzidine	14.237	184	157443	92.87	ppb	97

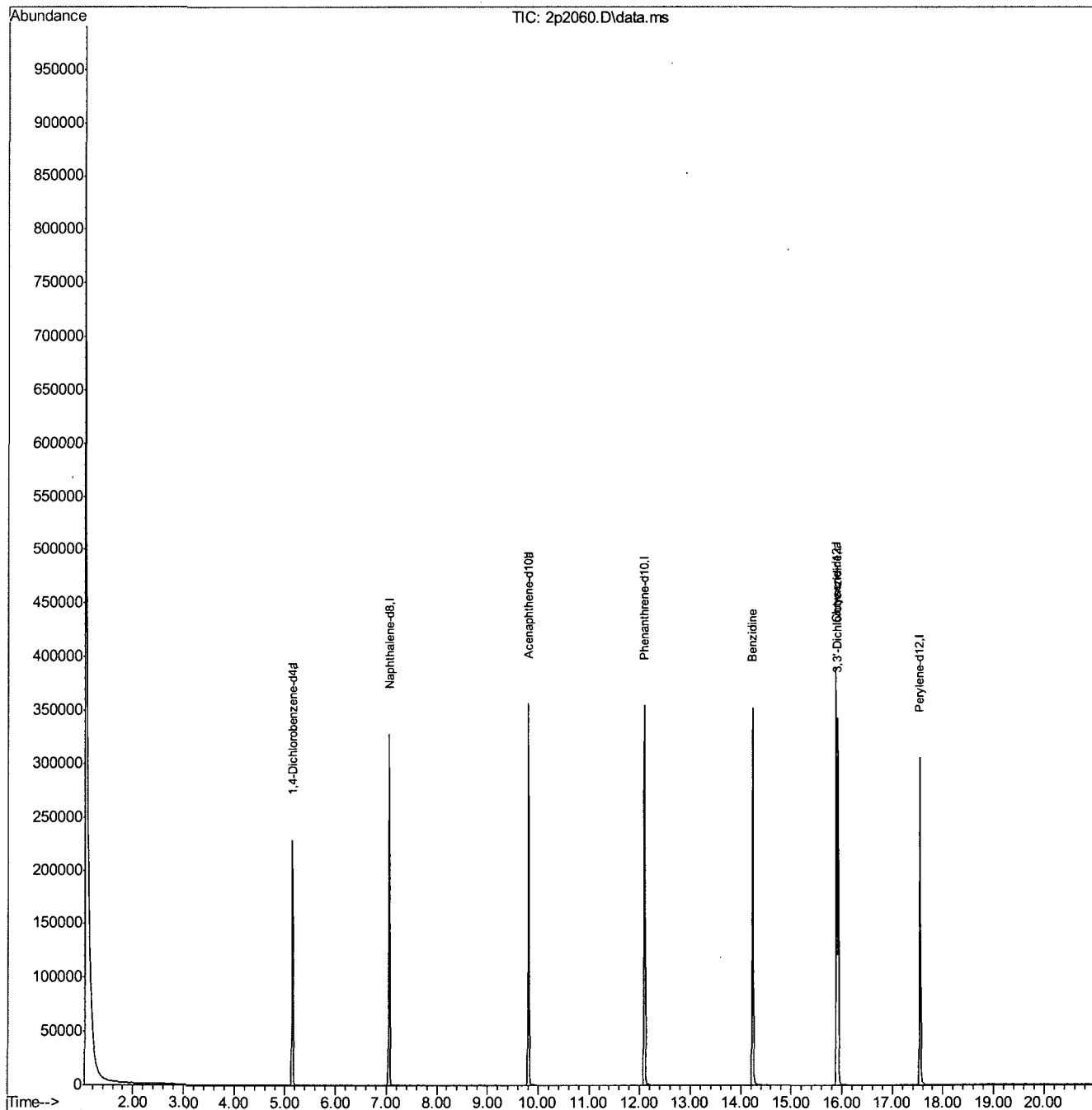
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.22  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p118\  
Data File : 2p2060.D  
Acq On : 21 Oct 2010 8:52 pm  
Operator : kristis  
Sample : icv117-50  
Misc : op45931,e2p118,benzidine  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 21 21:24:19 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\  
 Data File : 2p2060a.d  
 Acq On : 21 Oct 2010 8:52 pm  
 Operator : kristis  
 Sample : icv117-50  
 Misc : op45931,e2p118,benzidine  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 10 18:34:50 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.144	152	51539	40.00	ppb	0.00
24) Naphthalene-d8	7.059	136	192515	40.00	ppb	0.00
47) Acenaphthene-d10	9.808	164	109769	40.00	ppb	0.00
69) Phenanthrene-d10	12.098	188	175532	40.00	ppb	0.00
83) Chrysene-d12	15.895	240	162775	40.00	ppb	0.00
92) Perylene-d12	17.548	264	131859	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.144	152	51539	40.00	ppb	0.00
104) Acenaphthene-d10a	9.808	164	109769	40.00	ppb	0.00
106) Chrysene-d12a	15.895	240	162775	40.00	ppb	0.00
108) Acenaphthene-d10b	9.808	164	109769	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
89) 3,3'-Dichlorobenzidine	15.927	252	76219	49.46	ppb	Qvalue 97
107) Benzidine	14.237	184	157443	92.87	ppb	97

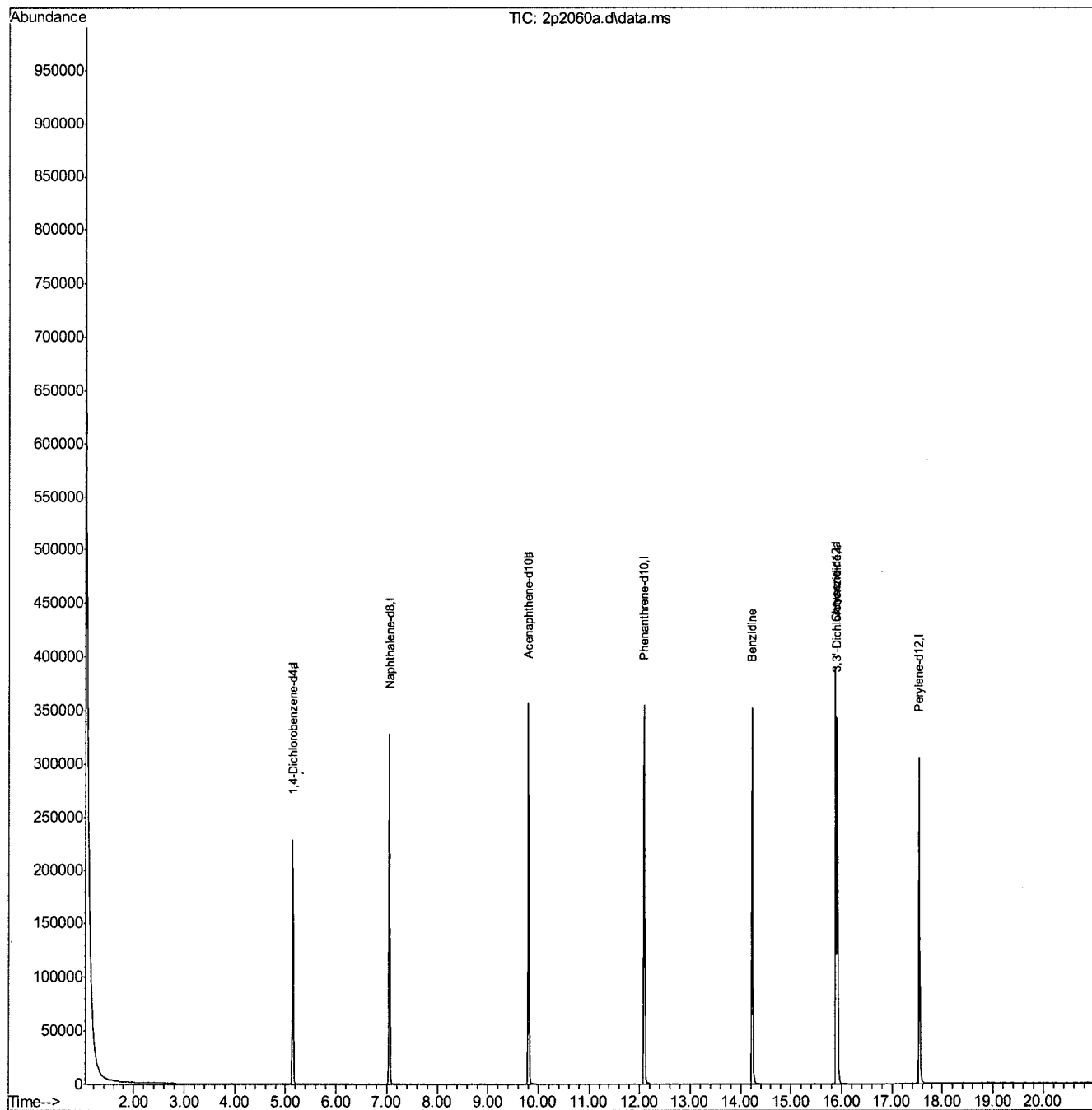
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.23  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\  
Data File : 2p2060a.d  
Acq On : 21 Oct 2010 8:52 pm  
Operator : kristis  
Sample : icv117-50  
Misc : op45931,e2p118,benzidine  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 10 18:34:50 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p119\  
 Data File : 2p2064.D  
 Acq On : 22 Oct 2010 12:12 pm  
 Operator : kristis  
 Sample : icv118-50  
 Misc : op45931,e2p119,1000,,,1,1  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 22 12:34:55 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

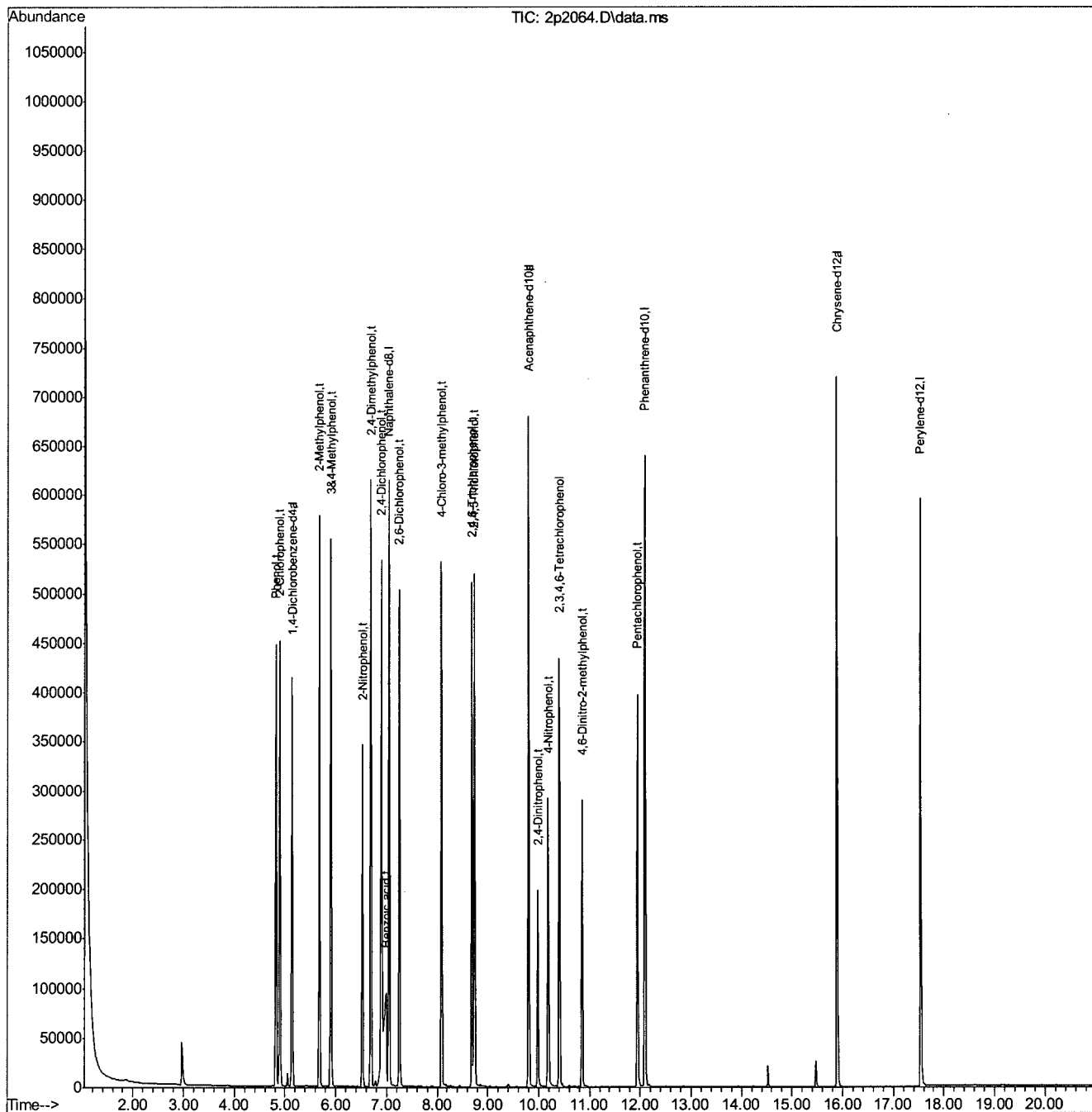
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.144	152	95616	40.00	ppb	0.00
24) Naphthalene-d8	7.054	136	373932	40.00	ppb	-0.01
47) Acenaphthene-d10	9.809	164	204084	40.00	ppb	0.00
69) Phenanthrene-d10	12.103	188	318506	40.00	ppb	0.00
83) Chrysene-d12	15.895	240	300525	40.00	ppb	0.00
92) Perylene-d12	17.548	264	254535	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.144	152	95616	40.00	ppb	0.00
104) Acenaphthene-d10a	9.809	164	204084	40.00	ppb	0.00
106) Chrysene-d12a	15.895	240	300525	40.00	ppb	0.00
108) Acenaphthene-d10b	9.809	164	204084	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
9) Phenol	4.824	94	206569	47.79	ppb	Qvalue 85
12) 2-Chlorophenol	4.898	128	170166	48.80	ppb	97
19) 2-Methylphenol	5.679	108	147595	49.05	ppb	100
21) 3&4-Methylphenol	5.909	108	158739	49.22	ppb	99
29) 2-Nitrophenol	6.530	139	82580	45.61	ppb	74
30) 2,4-Dimethylphenol	6.696	107	159913	53.05	ppb	98
31) Benzoic acid	6.995	105	114539	43.69	ppb	99
33) 2,4-Dichlorophenol	6.904	162	129906	48.01	ppb	99
34) 2,6-Dichlorophenol	7.257	162	128589	46.70	ppb	99
43) 4-Chloro-3-methylphenol	8.092	107	135429	47.23	ppb	97
49) 2,4,6-Trichlorophenol	8.691	196	85942	47.12	ppb	99
50) 2,4,5-Trichlorophenol	8.739	196	95631	52.26	ppb	99
60) 2,4-Dinitrophenol	9.985	184	31370	46.03	ppb	85
61) 4-Nitrophenol	10.194	109	46329	48.06	ppb	95
64) 2,3,4,6-Tetrachlorophenol	10.413	232	65585	44.83	ppb	96
70) 4,6-Dinitro-2-methylph...	10.862	198	49795	42.21	ppb	91
76) Pentachlorophenol	11.953	266	52818	43.88	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p119\  
Data File : 2p2064.D  
Acq On : 22 Oct 2010 12:12 pm  
Operator : kristis  
Sample : icv118-50  
Misc : op45931,e2p119,1000,,,1,1  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 22 12:34:55 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration

8.6.24  
8



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2248.D  
 Acq On : 2 Nov 2010 9:21 am  
 Operator : ninap  
 Sample : cc117-25  
 Misc : op45931,e2p127,1000,,,1,1  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 15:47:32 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 Qlast Update : Tue Nov 02 09:47:13 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.064	152	70489	40.00	ppb	0.00
24) Naphthalene-d8	6.979	136	262115	40.00	ppb	0.00
47) Acenaphthene-d10	9.739	164	145484	40.00	ppb	0.00
69) Phenanthrene-d10	12.028	188	228695	40.00	ppb	0.00
83) Chrysene-d12	15.842	240	222505	40.00	ppb	0.00
92) Perylene-d12	17.495	264	182520	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	5.064	152	70489	40.00	ppb	0.00
104) Acenaphthene-d10a	9.739	164	145484	40.00	ppb	0.00
106) Chrysene-d12a	15.842	240	222505	40.00	ppb	0.00
108) Acenaphthene-d10b	9.739	164	145484	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.406	112	56718	24.83	ppb	0.00
Spiked Amount 50.000			Recovery =	49.66%		
8) Phenol-d5	4.775	99	78166	25.88	ppb	0.00
Spiked Amount 50.000			Recovery =	51.76%		
25) Nitrobenzene-d5	5.941	82	71755	26.96	ppb	0.00
Spiked Amount 50.000			Recovery =	53.92%		
51) 2-Fluorobiphenyl	8.750	172	124456	25.16	ppb	0.00
Spiked Amount 50.000			Recovery =	50.32%		
73) 2,4,6-Tribromophenol	11.001	330	12790	24.84	ppb	0.00
Spiked Amount 50.000			Recovery =	49.68%		
85) Terphenyl-d14	14.526	244	100337	25.86	ppb	0.00
Spiked Amount 50.000			Recovery =	51.72%		
Target Compounds						
2) 1,4-Dioxane	1.358	88	25019	29.51	ppb	Qvalue # 85
3) Pyridine	1.668	79	65136	25.43	ppb	93
4) N-Nitrosodimethylamine	1.657	74	41402	27.74	ppb	# 71
6) Indene	5.476	116	86510	25.52	ppb	98
7) Cumene	3.989	105	122409	26.53	ppb	98
9) Phenol	4.792	94	80599	25.29	ppb	64
10) Aniline	4.685	93	72586	22.81	ppb	89
11) bis(2-Chloroethyl)ether	4.797	93	65496	26.12	ppb	92
12) 2-Chlorophenol	4.840	128	62499	24.31	ppb	96
13) Decane	4.957	57	70476	28.61	ppb	91
14) 1,3-Dichlorobenzene	5.005	146	67607	24.77	ppb	99
15) 1,4-Dichlorobenzene	5.086	146	70306	25.23	ppb	98
16) Benzyl alcohol	5.375	108	39993	23.61	ppb	95
17) 1,2-Dichlorobenzene	5.353	146	66011	24.71	ppb	99
18) Acetophenone	5.733	105	80624	24.42	ppb	95
19) 2-Methylphenol	5.642	108	53528	24.13	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.605	121	20699	24.30	ppb	# 45
21) 3&4-Methylphenol	5.872	108	55418	23.31	ppb	99
22) n-Nitroso-di-n-propyla...	5.808	70	47410	27.28	ppb	85
23) Hexachloroethane	5.802	201	21574	25.34	ppb	91
26) Nitrobenzene	5.968	123	30668	24.91	ppb	# 79
27) Quinoline	7.551	129	103449	24.13	ppb	100
28) Isophorone	6.343	82	120080	26.71	ppb	93

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2248.D  
 Acq On : 2 Nov 2010 9:21 am  
 Operator : ninap  
 Sample : cc117-25  
 Misc : op45931,e2p127,1000,,,1,1  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 15:47:32 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Tue Nov 02 09:47:13 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	6.460	139	32824	25.86	ppb	74
30) 2,4-Dimethylphenol	6.648	107	52274	24.74	ppb	96
31) Benzoic acid	6.878	105	37159	20.22	ppb	98
32) bis(2-Chloroethoxy)met...	6.754	93	71564	25.33	ppb	99
33) 2,4-Dichlorophenol	6.861	162	45240	23.85	ppb	96
34) 2,6-Dichlorophenol	7.204	162	46159	23.92	ppb	98
35) 1,3,5-Trichlorobenzene	6.460	180	52670	24.82	ppb	99
36) 1,2,4-Trichlorobenzene	6.936	180	51055	24.61	ppb	99
37) 1,2,3-Trichlorobenzene	7.305	180	48775	24.36	ppb	99
38) Naphthalene	7.011	128	180340	24.80	ppb	98
39) 4-Chloroaniline	7.198	127	74569	24.00	ppb	93
40) 2,3-Dichloroaniline	8.621	161	55269	24.53	ppb	97
41) Caprolactam	7.696	113	19461	25.86	ppb	86
42) Hexachlorobutadiene	7.348	225	25748	24.71	ppb	98
43) 4-Chloro-3-methylphenol	8.070	107	52402	26.07	ppb	96
44) 2-Methylnaphthalene	8.097	142	132703	27.18	ppb	95
45) 1-Methylnaphthalene	8.257	142	112527	25.08	ppb	98
46) Dimethylnaphthalene	9.092	156	97053	24.69	ppb	100
48) Hexachlorocyclopentadiene	8.477	237	38962	46.71	ppb	98
49) 2,4,6-Trichlorophenol	8.643	196	31559	24.27	ppb	95
50) 2,4,5-Trichlorophenol	8.717	196	33883	25.97	ppb	99
52) 2-Chloronaphthalene	8.840	162	106402	25.09	ppb	99
53) Biphenyl	8.867	154	138274	25.39	ppb	99
54) 2-Nitroaniline	9.113	65	39160	28.02	ppb	80
55) Dimethylphthalate	9.504	163	120894	25.17	ppb	99
56) Acenaphthylene	9.488	152	175928	26.06	ppb	98
57) 2,6-Dinitrotoluene	9.579	165	25610	26.22	ppb	87
58) 3-Nitroaniline	9.782	138	32031	23.97	ppb	81
59) Acenaphthene	9.782	153	113730	25.66	ppb	99
60) 2,4-Dinitrophenol	9.942	184	21697	45.07	ppb	80
61) 4-Nitrophenol	10.226	109	13151	19.14	ppb	94
62) Dibenzofuran	10.044	168	149027	24.80	ppb	93
63) 2,4-Dinitrotoluene	10.183	165	34891	25.70	ppb	86
64) 2,3,4,6-Tetrachlorophenol	10.365	232	25218	24.18	ppb	94
65) Diethylphthalate	10.638	149	130549	26.16	ppb	96
66) Fluorene	10.579	166	119148	25.59	ppb	99
67) 4-Chlorophenyl-phenyle...	10.648	204	53728	24.64	ppb	96
68) 4-Nitroaniline	10.750	138	30990	24.97	ppb	91
70) 4,6-Dinitro-2-methylph...	10.809	198	18571	23.99	ppb	91
71) n-Nitrosodiphenylamine	10.862	169	85398	24.98	ppb	98
72) 1,2-Diphenylhydrazine	10.884	77	155902	27.84	ppb	91
74) 4-Bromophenyl-phenylether	11.397	248	28373	24.74	ppb	92
75) Hexachlorobenzene	11.574	284	30083	24.60	ppb	92
76) Pentachlorophenol	11.900	266	35045	40.80	ppb	97
77) Phenanthrene	12.060	178	167731	24.53	ppb	99
78) Anthracene	12.135	178	172113	25.02	ppb	98
79) Carbazole	12.456	167	153979	24.47	ppb	100
80) Di-n-butylphthalate	13.232	149	213939	27.50	ppb	99
81) Fluoranthene	13.895	202	166917	25.34	ppb	100
82) Octadecane	12.114	71	56866	29.49	ppb	83

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2248.D  
Acq On : 2 Nov 2010 9:21 am  
Operator : ninap  
Sample : ccl17-25  
Misc : op45931,e2p127,1000,,,1,1  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 15:47:32 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Tue Nov 02 09:47:13 2010  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	14.194	202	179256	26.23	ppb	98
86) Butylbenzylphthalate	15.296	149	91022	28.17	ppb	90
88) Benzo[a]anthracene	15.820	228	144268	24.54	ppb	98
89) 3,3'-Dichlorobenzidine	15.874	252	53750	25.52	ppb	96
90) Chrysene	15.869	228	155101	26.48	ppb	99
91) bis(2-Ethylhexyl)phtha...	16.115	149	125637	28.08	ppb	97
93) Di-n-octylphthalate	16.837	149	208369	28.47	ppb	94
94) Benzo[b]fluoranthene	17.099	252	128392	23.82	ppb	98
95) Benzo[k]fluoranthene	17.125	252	163178	29.14	ppb	93
96) Benzo[a]pyrene	17.436	252	128468	26.58	ppb	99
97) Indeno[1,2,3-cd]pyrene	18.570	276	154608	27.21	ppb	97
98) Dibenz(a,h)acridine	18.350	279	106635	26.74	ppb	99
99) Dibenz[a,h]anthracene	18.602	278	123306	26.38	ppb	97
100) 7,12-Dimethylbenz(a)an...	17.125	256	59693	28.97	ppb	96
101) Benzo[g,h,i]perylene	18.848	276	128639	26.75	ppb	99

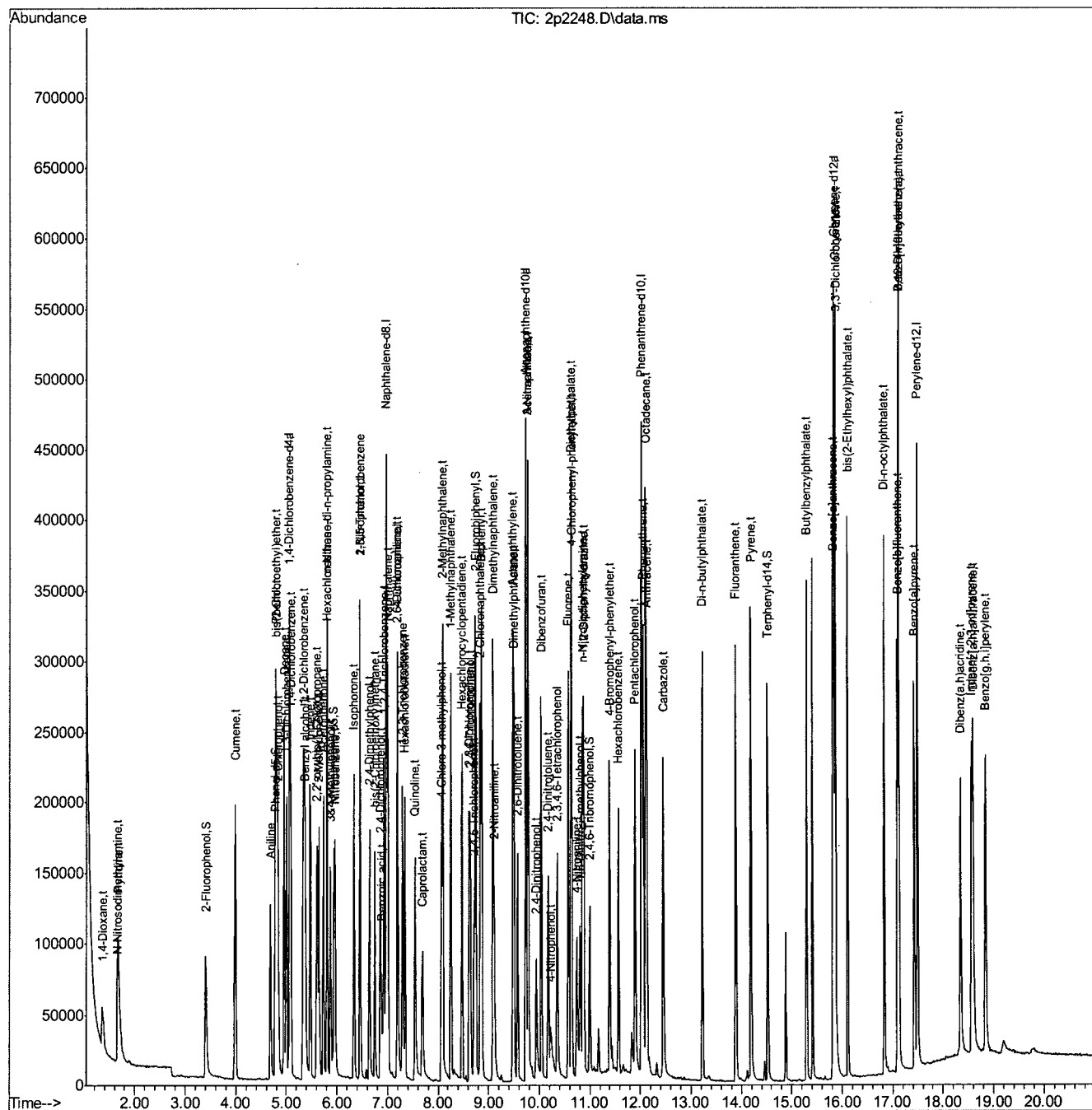
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.25  
8

Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\2p127\  
Data File   : 2p2248.D  
Acq On      : 2 Nov 2010    9:21 am  
Operator    : ninap  
Sample      : cc117-25  
Misc        : op45931,e2p127,1000,,,1,1  
ALS Vial    : 2      Sample Multiplier: 1
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Quant Time: Nov 02 15:47:32 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Tue Nov 02 09:47:13 2010  
Response via : Initial Calibration



M2P117.M Tue Nov 02 15:47:38 2010 RPT1

Page: 4

## 8.6.25

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
 Data File : 2p2249.D  
 Acq On : 2 Nov 2010 9:49 am  
 Operator : ninap  
 Sample : cc118-25  
 Misc : op45931,e2p127,1000,,,1,1  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 03 09:35:50 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.064	152	78198	40.00	ppb	-0.09
24) Naphthalene-d8	6.979	136	293151	40.00	ppb	-0.09
47) Acenaphthene-d10	9.739	164	159575	40.00	ppb	-0.08
69) Phenanthrene-d10	12.028	188	258038	40.00	ppb	-0.08
83) Chrysene-d12	15.836	240	244200	40.00	ppb	-0.06
92) Perylene-d12	17.494	264	211924	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4a	5.064	152	78198	40.00	ppb	-0.09
104) Acenaphthene-d10a	9.739	164	159575	40.00	ppb	-0.08
106) Chrysene-d12a	15.836	240	244200	40.00	ppb	-0.06
108) Acenaphthene-d10b	9.739	164	159575	40.00	ppb	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	4.455	105	46531	26.39	ppb	Qvalue 95
105) Atrazine	11.820	215	15379	24.75	ppb	# 80
107) Benzidine	14.184	184	80079	31.49	ppb	98
109) 1,2,4,5-Tetrachloroben...	8.423	216	50289	26.84	ppb	99

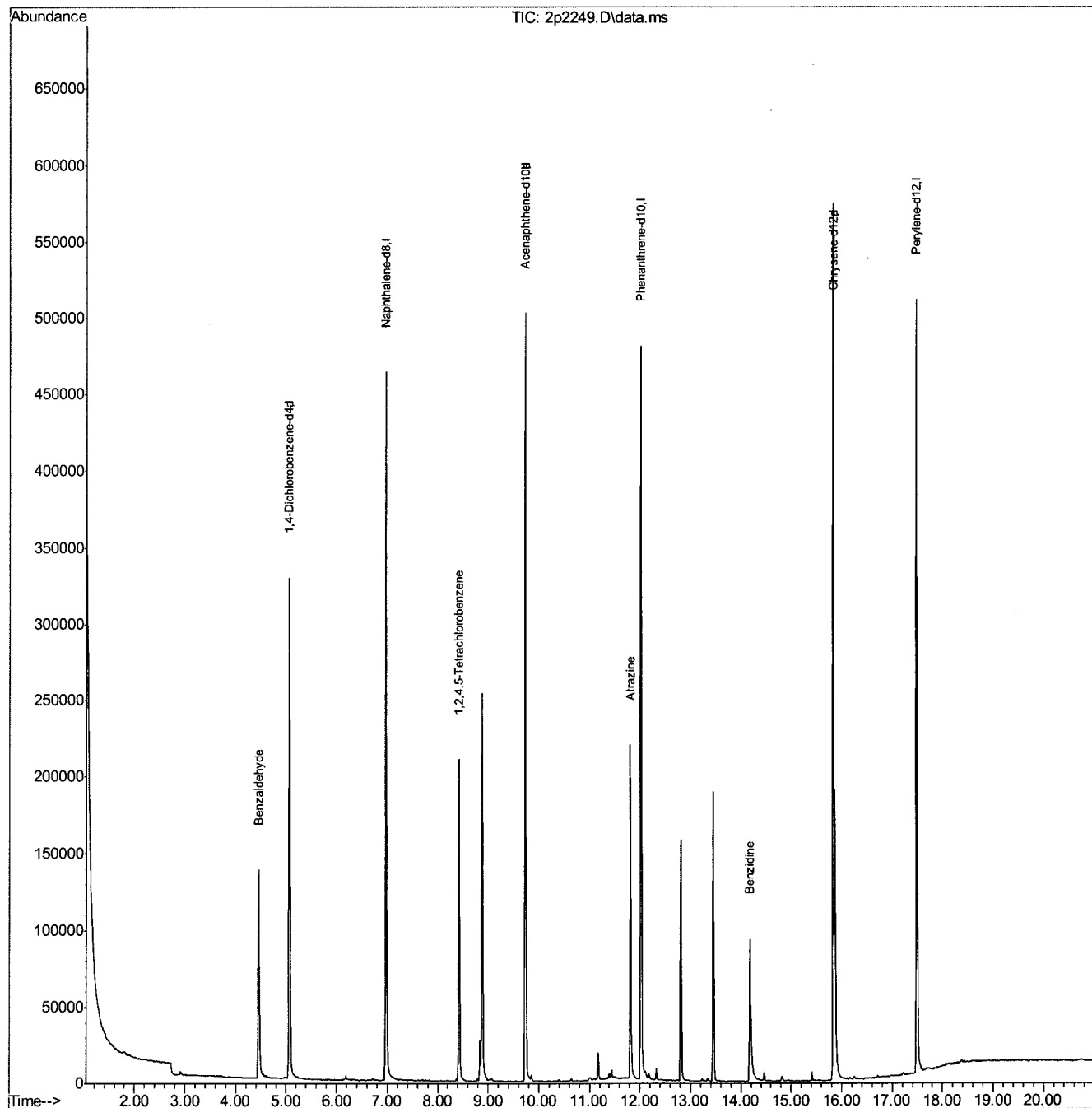
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8.6.26  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p127\  
Data File : 2p2249.D  
Acq On : 2 Nov 2010 9:49 am  
Operator : ninap  
Sample : ccl18-25  
Misc : op45931,e2p127,1000,,,1,1  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 03 09:35:50 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p128\  
 Data File : 2p2278.D  
 Acq On : 3 Nov 2010 12:03 pm  
 Operator : krutikap  
 Sample : ccl17-25  
 Misc : op45931,e2p128,1000,,,1,1  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 12:29:16 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.054	152	117376	40.00	ppb	-0.10
24) Naphthalene-d8	6.969	136	433820	40.00	ppb	-0.10
47) Acenaphthene-d10	9.718	164	233367	40.00	ppb	-0.10
69) Phenanthrene-d10	12.007	188	362795	40.00	ppb	-0.10
83) Chrysene-d12	15.821	240	374881	40.00	ppb	-0.08
92) Perylene-d12	17.473	264	304128	40.00	ppb	-0.08
102) 1,4-Dichlorobenzene-d4a	5.054	152	117376	40.00	ppb	-0.10
104) Acenaphthene-d10a	9.718	164	233367	40.00	ppb	-0.10
106) Chrysene-d12a	15.821	240	374881	40.00	ppb	-0.08
108) Acenaphthene-d10b	9.718	164	233367	40.00	ppb	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	3.396	112	94595	24.87	ppb	-0.06
Spiked Amount 50.000			Recovery	=	49.74%	
8) Phenol-d5	4.765	99	122499	24.35	ppb	-0.02
Spiked Amount 50.000			Recovery	=	48.70%	
25) Nitrobenzene-d5	5.931	82	117493	26.67	ppb	-0.09
Spiked Amount 50.000			Recovery	=	53.34%	
51) 2-Fluorobiphenyl	8.734	172	201380	25.38	ppb	-0.09
Spiked Amount 50.000			Recovery	=	50.76%	
73) 2,4,6-Tribromophenol	10.980	330	20276	24.82	ppb	-0.09
Spiked Amount 50.000			Recovery	=	49.64%	
85) Terphenyl-d14	14.505	244	163783	25.06	ppb	-0.09
Spiked Amount 50.000			Recovery	=	50.12%	
Target Compounds						
2) 1,4-Dioxane	1.369	88	41019	29.05	ppb	Qvalue 93
3) Pyridine	1.673	79	109796	25.74	ppb	95
4) N-Nitrosodimethylamine	1.668	74	65962	26.55	ppb	85
6) Indene	5.466	116	143252	25.38	ppb	99
7) Cumene	3.984	105	203015	26.42	ppb	99
9) Phenol	4.781	94	137614	25.93	ppb	70
10) Aniline	4.674	93	123008	23.21	ppb	92
11) bis(2-Chloroethyl)ether	4.792	93	108276	25.93	ppb	96
12) 2-Chlorophenol	4.829	128	106177	24.80	ppb	97
13) Decane	4.947	57	116984	28.52	ppb	91
14) 1,3-Dichlorobenzene	4.995	146	112412	24.74	ppb	97
15) 1,4-Dichlorobenzene	5.080	146	116108	25.02	ppb	100
16) Benzyl alcohol	5.364	108	63594	22.55	ppb	92
17) 1,2-Dichlorobenzene	5.343	146	109573	24.63	ppb	98
18) Acetophenone	5.722	105	132498	24.10	ppb	95
19) 2-Methylphenol	5.626	108	89302	24.17	ppb	99
20) 2,2'-oxybis(1-Chloropr...	5.594	121	33844	23.86	ppb	# 52
21) 3&4-Methylphenol	5.856	108	95775	24.19	ppb	99
22) n-Nitroso-di-n-propyla...	5.803	70	75386	26.05	ppb	88
23) Hexachloroethane	5.792	201	35274	24.88	ppb	95
26) Nitrobenzene	5.952	123	50993	25.03	ppb	81
27) Quinoline	7.530	129	168933	23.81	ppb	99
28) Isophorone	6.327	82	191783	25.77	ppb	93

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p128\  
 Data File : 2p2278.D  
 Acq On : 3 Nov 2010 12:03 pm  
 Operator : krutikap  
 Sample : cc117-25  
 Misc : op45931,e2p128,1000,,,1,1  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 12:29:16 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	6.444	139	54715	26.05	ppb	78
30) 2,4-Dimethylphenol	6.632	107	87215	24.94	ppb	98
31) Benzoic acid	6.904	105	64153	21.09	ppb	98
32) bis(2-Chloroethoxy)met...	6.739	93	117596	25.15	ppb	99
33) 2,4-Dichlorophenol	6.840	162	76036	24.22	ppb	100
34) 2,6-Dichlorophenol	7.182	162	79096	24.76	ppb	99
35) 1,3,5-Trichlorobenzene	6.444	180	86679	24.68	ppb	99
36) 1,2,4-Trichlorobenzene	6.926	180	83398	24.29	ppb	99
37) 1,2,3-Trichlorobenzene	7.284	180	79211	23.90	ppb	99
38) Naphthalene	6.995	128	296891	24.66	ppb	99
39) 4-Chloroaniline	7.182	127	123702	24.05	ppb	96
40) 2,3-Dichloroaniline	8.600	161	88710	23.79	ppb	97
41) Caprolactam	7.701	113	30759	24.69	ppb	94
42) Hexachlorobutadiene	7.332	225	41810	24.24	ppb	98
43) 4-Chloro-3-methylphenol	8.049	107	83289	25.04	ppb	93
44) 2-Methylnaphthalene	8.081	142	203841	25.22	ppb	96
45) 1-Methylnaphthalene	8.236	142	182654	24.60	ppb	99
46) Dimethylnaphthalene	9.071	156	158812	24.41	ppb	98
48) Hexachlorocyclopentadiene	8.461	237	68376	51.10	ppb	100
49) 2,4,6-Trichlorophenol	8.621	196	51953	24.91	ppb	98
50) 2,4,5-Trichlorophenol	8.691	196	53237	25.44	ppb	100
52) 2-Chloronaphthalene	8.825	162	171377	25.19	ppb	99
53) Biphenyl	8.851	154	223269	25.56	ppb	97
54) 2-Nitroaniline	9.097	65	63400	28.28	ppb	89
55) Dimethylphthalate	9.488	163	191817	24.90	ppb	99
56) Acenaphthylene	9.466	152	281988	26.04	ppb	99
57) 2,6-Dinitrotoluene	9.557	165	41630	26.57	ppb	87
58) 3-Nitroaniline	9.761	138	53906	25.15	ppb	86
59) Acenaphthene	9.766	153	183847	25.86	ppb	99
60) 2,4-Dinitrophenol	9.921	184	37326	47.33	ppb	86
61) 4-Nitrophenol	10.172	109	25933	23.52	ppb	89
62) Dibenzofuran	10.023	168	237658	24.66	ppb	91
63) 2,4-Dinitrotoluene	10.162	165	56230	25.82	ppb	81
64) 2,3,4,6-Tetrachlorophenol	10.338	232	40684	24.32	ppb	95
65) Diethylphthalate	10.616	149	204221	25.52	ppb	98
66) Fluorene	10.563	166	191819	25.69	ppb	99
67) 4-Chlorophenyl-phenyle...	10.627	204	87101	24.90	ppb	97
68) 4-Nitroaniline	10.729	138	47829	24.02	ppb	91
70) 4,6-Dinitro-2-methylph...	10.787	198	31010	25.02	ppb	# 66
71) n-Nitrosodiphenylamine	10.841	169	135833	25.05	ppb	98
72) 1,2-Diphenylhydrazine	10.862	77	247529	27.86	ppb	91
74) 4-Bromophenyl-phenylether	11.376	248	44805	24.63	ppb	93
75) Hexachlorobenzene	11.552	284	46553	23.99	ppb	94
76) Pentachlorophenol	11.879	266	58875	43.01	ppb	97
77) Phenanthrene	12.039	178	266330	24.55	ppb	99
78) Anthracene	12.109	178	274535	25.16	ppb	99
79) Carbazole	12.429	167	246430	24.68	ppb	100
80) Di-n-butylphthalate	13.205	149	336363	27.26	ppb	100
81) Fluoranthene	13.868	202	269720	25.81	ppb	99
82) Octadecane	12.093	71	87789	28.70	ppb	85



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p128\  
Data File : 2p2278.D  
Acq On : 3 Nov 2010 12:03 pm  
Operator : krutikap  
Sample : ccl17-25  
Misc : op45931,e2p128,1000,,,1,1  
ALS Vial : 2 Sample Multiplier: 1

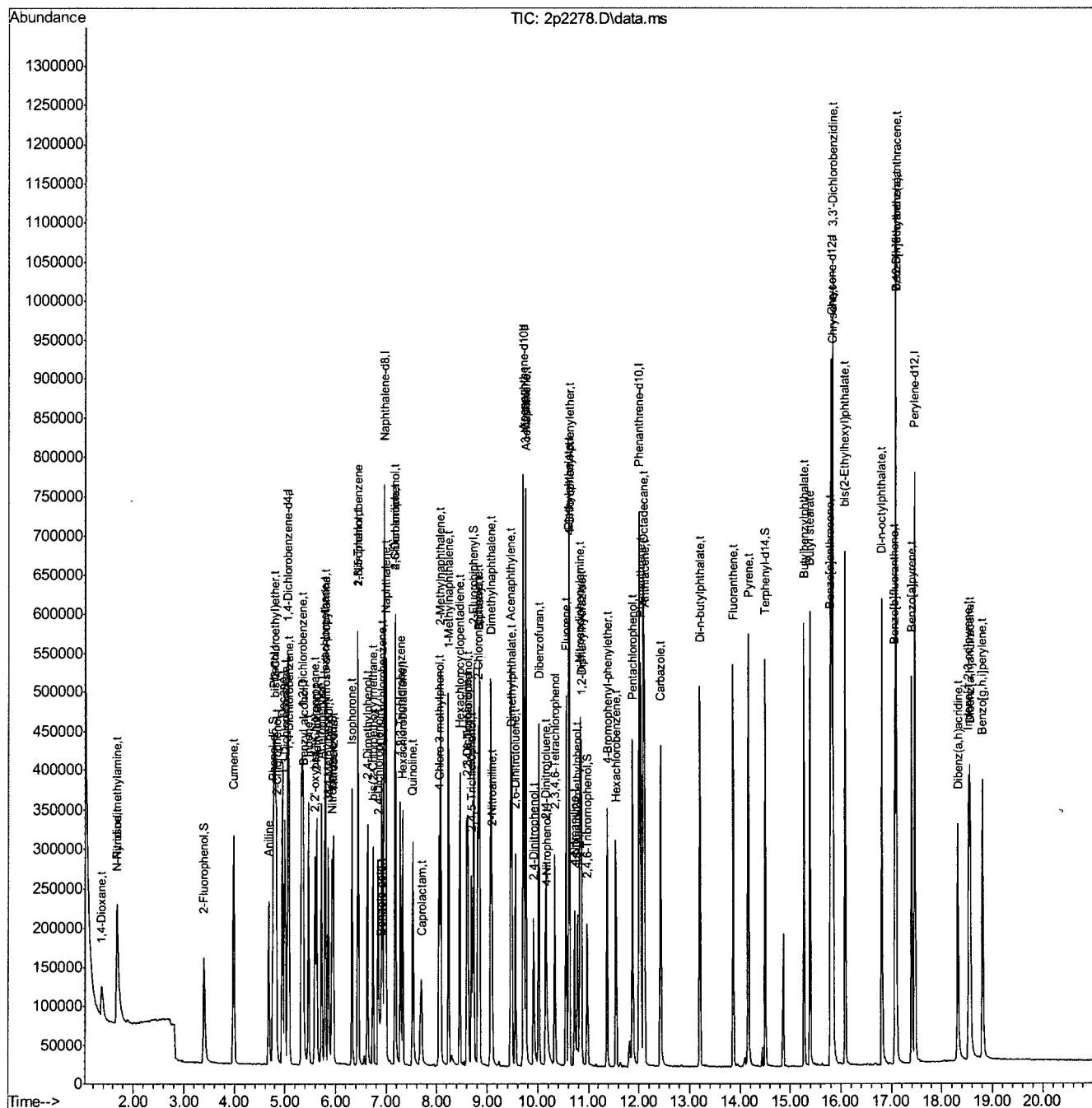
Quant Time: Nov 03 12:29:16 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	14.173	202	287170	24.94	ppb	98
86) Butylbenzylphthalate	15.275	149	147266	27.05	ppb	95
87) Butyl stearate	15.393	285	15926	23.68	ppb #	7
88) Benzo[a]anthracene	15.799	228	242474	24.48	ppb	100
89) 3,3'-Dichlorobenzidine	15.847	252	89044	25.09	ppb	97
90) Chrysene	15.853	228	261038	26.45	ppb	98
91) bis(2-Ethylhexyl)phtha...	16.088	149	206445	27.39	ppb	96
93) Di-n-octylphthalate	16.815	149	337445	27.67	ppb	95
94) Benzo[b]fluoranthene	17.077	252	221866	24.70	ppb	98
95) Benzo[k]fluoranthene	17.104	252	263368	28.22	ppb	95
96) Benzo[a]pyrene	17.409	252	211550	26.27	ppb	99
97) Indeno[1,2,3-cd]pyrene	18.538	276	245140	25.89	ppb	99
98) Dibenz(a,h)acridine	18.324	279	169391	25.50	ppb	99
99) Dibenz[a,h]anthracene	18.570	278	196488	25.23	ppb	98
100) 7,12-Dimethylbenz(a)an...	17.104	256	99875	29.09	ppb	98
101) Benzo[g,h,i]perylene	18.816	276	205942	25.70	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path   : C:\msdchem\1\DATA\2p128\  
Data File   : 2p2278.D  
Acq On      : 3 Nov 2010 12:03 pm  
Operator    : krutikap  
Sample      : cc117-25  
Misc        : op45931,e2p128,1000,,,1,1  
ALS Vial    : 2      Sample Multiplier: 1
```

Quant Time: Nov 03 12:29:16 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration



**8.6.27**

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p128\  
 Data File : 2p2279.D  
 Acq On : 3 Nov 2010 1:24 pm  
 Operator : krutikap  
 Sample : ccl18-25  
 Misc : op45931,e2p128,1000,,,1,1  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 03 14:56:19 2010  
 Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
 Quant Title : Semi Volatile Extractables by GC/MS  
 QLast Update : Thu Oct 21 19:23:29 2010  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.054	152	40392	40.00	ppb	-0.10
24) Naphthalene-d8	6.963	136	151576	40.00	ppb	-0.10
47) Acenaphthene-d10	9.718	164	83552	40.00	ppb	-0.10
69) Phenanthrene-d10	12.007	188	130145	40.00	ppb	-0.10
83) Chrysene-d12	15.815	240	122848	40.00	ppb	-0.09
92) Perylene-d12	17.473	264	103202	40.00	ppb	-0.08
102) 1,4-Dichlorobenzene-d4a	5.054	152	40392	40.00	ppb	-0.10
104) Acenaphthene-d10a	9.718	164	83552	40.00	ppb	-0.10
106) Chrysene-d12a	15.815	240	122848	40.00	ppb	-0.09
108) Acenaphthene-d10b	9.718	164	83552	40.00	ppb	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	4.444	105	23652	25.97	ppb	Qvalue 94
105) Atrazine	11.798	215	7562	23.34	ppb	# 73
107) Benzidine	14.157	184	38907	30.41	ppb	99
109) 1,2,4,5-Tetrachloroben...	8.407	216	25641	26.13	ppb	99

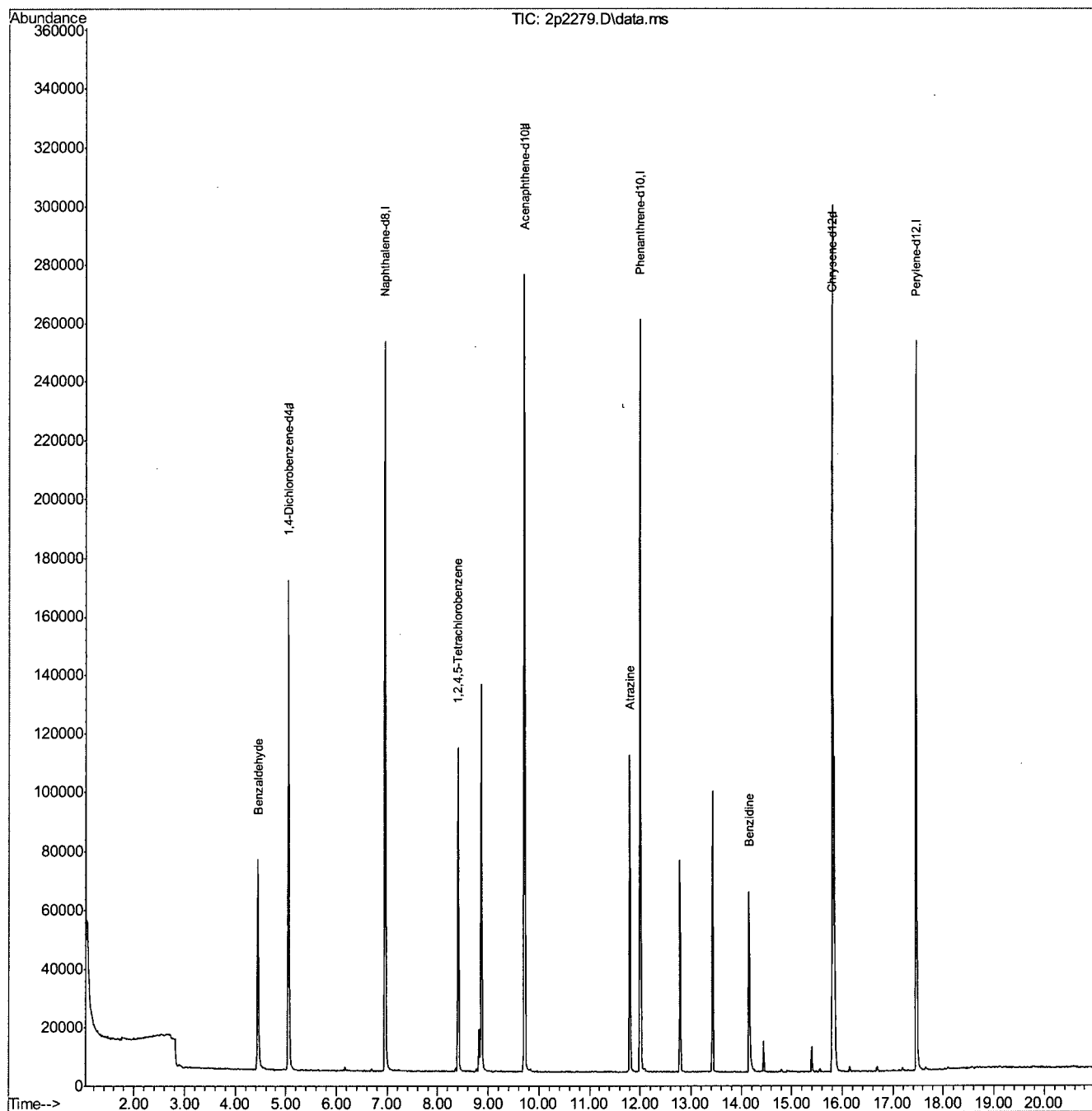
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.28  
8

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p128\  
Data File : 2p2279.D  
Acq On : 3 Nov 2010 1:24 pm  
Operator : krutikap  
Sample : ccl18-25  
Misc : op45931,e2p128,1000,,,1,1  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 03 14:56:19 2010  
Quant Method : C:\MSDCHEM\1\METHODS\M2P117.M  
Quant Title : Semi Volatile Extractables by GC/MS  
QLast Update : Thu Oct 21 19:23:29 2010  
Response via : Initial Calibration





## SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: F2P117

112-21-10

**Analyst Signature**

Standard Data		
#	Description	Conc.
1404A	BNA	100ppm
1404B	↓	50ppm
1404C		25ppm
1404D		20ppm
1404E		10ppm
1404F		5ppm

Standard Data		
Lot #	Description	Conc.
5005467	DF-1PP	500ppm
51054206	2N4	2ppm
50054204	+	1ppm
2547	McIntirewood	—
CE515	n + stl	4000000

Columns: ZB-Si  $5\mu\text{m} \times 25\text{m} \times 25\mu\text{m}$

Method 8220/625

Initial Cal. Method *MCP117*

Injection Volume: 1.00

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

**Supervisor Signature:**

Date: 11/22/20

[illegible]

Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

le volume/weight used and final volumes refer to extraction log.

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

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

OR015-05

te: 1/16/2006

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## SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E2P118

10-21-2010

Analyst Signature: JP

### Standard Data

### Standard Data

#	Description	Conc.

Lot #	Description	Conc.
SV1052162	DFTTP	50ppm
DC433	Honeywell Bell	-
CF0915	Int. Std.	4000ppm

Columns: EB5H, 15m, 45m, 25m

Method 8270

Initial Cal. Method 112717

Injection Volume: 1.0ul

Qualitatively 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: 12-22-10

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
1047	DFTTP			W	1					OK	3:07pm
1048	IC118-100				2					OK	SV10-521-97A
1049	IC118-80				3					OK	-97B
1050	IC118-50				4					OK	-97C
1051	IC118-25				5					OK	-97D
1052	IC118-10				6					OK	-97E
1053	IC118-5				7					OK	-97F
1054	IC118-2				8					OK	-97G
1055	IC118-1				9					OK	-97H
1056	ICV117-50		acid		10					OK	0910-420-142 <i>Perkins Perm!</i>
1057	ICV117-50		BN#1		11					OK	0910-420-143
1058	ICV117-50		BN#2		12					OK	-140
1059	ICV117-50		3rd source		13					OK	SV10-521-85
1060	ICV117-50		Brentidine		14					OK	SV10-521-88

Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Volume/weight used and final volumes refer to extraction log.

183

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

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

1015-05  
1/16/2006

Batch ID: E2P119

02270

Analyst Signature: [Signature]

### Standard Data

#	Description	Conc.

### Standard Data

Lot #	Description	Conc.
910-52167	DF7TP	Supp
910-52168	BWA	Supp
910-52169	KL42	Supp
910-52170	Acid m. source	Supp
910-52171	Acid m. source	Supp
910-52172	Acid m. source	Supp
910-52173	Acid m. source	Supp
910-52174	Acid m. source	Supp
910-52175	Acid m. source	Supp
910-52176	Acid m. source	Supp
910-52177	Acid m. source	Supp
910-52178	Acid m. source	Supp
910-52179	Acid m. source	Supp
910-52180	Acid m. source	Supp
910-52181	Acid m. source	Supp
910-52182	Acid m. source	Supp
910-52183	Acid m. source	Supp
910-52184	Acid m. source	Supp
910-52185	Acid m. source	Supp
910-52186	Acid m. source	Supp
910-52187	Acid m. source	Supp
910-52188	Acid m. source	Supp
910-52189	Acid m. source	Supp
910-52190	Acid m. source	Supp
910-52191	Acid m. source	Supp
910-52192	Acid m. source	Supp
910-52193	Acid m. source	Supp
910-52194	Acid m. source	Supp
910-52195	Acid m. source	Supp
910-52196	Acid m. source	Supp
910-52197	Acid m. source	Supp
910-52198	Acid m. source	Supp
910-52199	Acid m. source	Supp
910-52200	Acid m. source	Supp

Columns: 2B-5451 15m x 2.1mm x 2.1mm

Method: 022701625

Initial Cal. Method: 10P117

Injection Volume: 10.0

Qualitatively 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: 11/25/10

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
2061	DF7TP			W	1					OK	11/25/10
2062	CC117-50			W	2					OK	
2063	CC118-50			W	3					OK	
2064	CC117-50			W	4					OK	
2065	DF7TP			W	1					OK	4/24/10
2066	CC117-50			W	2					OK	
2067	CC118-50			W	3					OK	
2068	CP46300-41	46300	AB220	S	4					OK	2000 for sample container RU samples duplicate
2069	CP46300-BSI			S	5					OK	
2070	JA59392-1		ABTCL11		6					OK	
2071	JA59392-1		PAH		7					OK	
2072	-3				8					OK	
2073	-4				9					OK	
2074	-2				10					OK	
2075	0746300-41		AB220		11					OK	
2076	-MSD				12					OK	
2077	JA58016-32		BTCL11T		13					OK	

Matrix: Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

185

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

OR015-05

Date: 1/16/2006

## SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EJP119

10-22-2010

Analyst Signature: JP

[illegible]

Standard Data		
Lot #	Description	Conc.
DC547	Honeywell Bull	—
CF0915	1 ml 50	4000 ppm

Columns: 2 B-5Hs; 15mx.45mm x .45mm

Method 8270

Initial Cal. Method M 27117

Injection Volume: 1.0ul

Qualitatively 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: 10-25-70

[illegible]

Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Initial volume/weight used and final volumes refer to extraction log.

187

**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

OR015-05

Date: 1/16/2006

8.7.3





## SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E-2P127Date: 11/02/10Analyst Signature: Ju

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
SN10-52187	DEAPP	SOPH
SN10-521-20	BALPSTN	2501-
-97	71242	2501-
PL6547	Meck (Honeywell)	
LE0915	75	1000ppm

Columns: 25mm, 15m x 25mm x 25mMethod: 8270/625Initial Cal. Method: M2P117Injection Volume: 1.01

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: JuDate: 11-3-10

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution	L +	I S	S U	Status (Data)	Comments
2P2247	DEAPP				1					OK	9-09 am
2P2248	CC117-25				2					OK	
2P2249	CC118-25		71242		3					OK	
2P2250	OP46301-M51	46301-1	AB21	S	4			✓	✓	OK	
2P2251	-B51		-		5			✓	✓	OK	
2P2252	JA58750-1		ABPPT12	S	6			✓	✓	OK	
2P2253	-2		TOBEDTANINE		7			✓	✓	OK	
2P2254	-3				8			✓	✓	OK	
2P2255	-4				9			✓	✓	OK	
2P2256	-5				10			✓	✓	OK	
2P2257	-6				11			✓	✓	OK	
2P2258	-8				12			✓	✓	OK	
2P2259	-9				13			✓	✓	OK	
2P2260	-10				14			✓	✓	OK	internal db spiked-RH
2P2261	-11				15			✓	✓	OK	
2P2262	OP46301-M5		AB21		16			✓	✓	OK	
2P2263	-M5D				17			✓	✓	OK	

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

sample volume/weight used and final volumes refer to extraction log.

11 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

Form: OR015-05

Rev. Date: 1/16/2006

**ACCUTEST.****SEMI-VOLATILE by GCMS ANALYSIS LOG**Batch ID: E2P127 ContDate: 11/02/10  
Standard DataAnalyst Signature: Pen

Lot #	Description	Conc.

Lot #	Description	Conc.
	<u>Same as 13</u>	<u>17</u>

Columns: 20mm x 1.0mm x 2.5mmMethod 8270/621Initial Cal. Method M2P117Injection Volume: 1.04

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: PenDate: 11/15/10

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
	2P2264	JA58750-13	46301-1	ADPT12	S	18			✓	✓	OK	
	2P2265	-14		ADPT12		19			✓	✓	OK	internal db spiked
	2P2266	-15				20			✓	✓	OK	
	2P2267	-16				21			✓	✓	OK	
	2P2268	-17				22			✓	✓	OK	Internal db spiked
	2P2269	-18				23			✓	✓	OK	
	2P2270	-7				24			✓	✓	OK	
	2P2271	-12				25			✓	✓	NOT USING	outside clocktime.
	2P2272	JA58941-1R	46366-1	ADPT12	S	26			✓	✓	OK	} ran before 2P2260
	2P2273	-3R				27			✓	✓	OK	
	2P2274	JA59157-1	46300-1	ADPT12		28	10/1				no data	typed in wrong val position
	2P2275	JA59157-1	46300-1	ADPT12		28	10/2		✓		not using	ran before 2P2261
	2P2276	-1				29	20		✓	✓	OK	221.20 still overcalibrated.

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

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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: OR015-05

Rev. Date: 1/16/2006

**SEMI-VOLATILE by GCMS ANALYSIS LOG**

 Batch ID: E2P128

 Date: 11/3/10

 Analyst Signature: Krulika Patel

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
SV1052167	DFTPP	50ppm
-87	BNA	25ppm
-91	TCL42	25ppm
DC 774	Meth Honeywell	—
CE915	Int Std	4000ppm

 Columns: 285msi 15m x 0.25mm x 0.25um

 Method: 8270/625

 Initial Cal. Method: map117

 Injection Volume: 1.0ul

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

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
2277	DFTPP			W	1					OK	11-2 Tam
2278	CC117-25			W	2					OK	
2279	CC118-25			W	3					OK	
2280	JAS8750-10	46301-1	ABPTCL11 TBACPT Amine	S	4			/	/	OK	
2281	-12				5			/	/	OK	
2282	JAS9307-17	46439-1	ABTCL11+	S	6		+	/	/	OK	
2283	-12				7		+	/	/	OK	
2284	-13				8		+	/	/	OK	
2285	-19				9		+	/	/	OK	
2286	-20				10		+	/	/	OK	
2287	-3				11		+	✓	✓	OK	
2288	-1				12		+	✓	✓	OK	
2289	-16				13		+	✓	✓	OK	
2290	-5				14		+	✓	✓	OK	
2291	-14				15		+	✓	✓	OK	RR 1:20
2292	-18				16		+			not using	RR 1:5 as first run
2293	JAS9427-68	46392-1	ABNTCLT	W	17		+	/	/	Not using	Sample moved.

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

21

1 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: OR015-05

v. Date: 1/16/2006

**SEMI-VOLATILE by GCMS ANALYSIS LOG**

 Batch ID: E2P128

 Date: 11/3/10

 Analyst Signature: Krutika Patel

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
DC 774	Mell. Honeywell	
CF0915	Ink Std	4000ppm

 Columns: ZB5MSi 15 30m x 0.25mm x 0.25µm  
EP1114

 Method 8270/625

 Initial Cal Method map117

 Injection Volume: 1.0ul

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

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
2294	JA59346-4	46392-1	ABTCL	W	18					OK	
2295	JA59427-4 AXH				19					OK	
2296	-46		ABWJTCCL <sup>+</sup>		20		+			OK	
2297	-10				21		+			NOT using	
2298	-11				22		+				out of clocktime.
2299	JA59306-1	46298-1	BAPYRN, BATH, Chrys.	W	23	5					
2300	JA59533-1	46392-1	ABTCL11		24						
2301	JA59534-1		ABTCL11		25						
2302	JA59535-1		ABTCL11		26						
2303	JA59456-1		ABTCL		27						
2304	-6				28						
2305	JA59307-14	46439	ABTCL11 <sup>+</sup>	S	29	200				OK	run before 2P2294
2306	-18				30	50				OK	all due to matrix
2307	-18				31	500				OK	run before 2P2294
2308	-18				32	50				OK	run before 2P2295
2309					33						
2310					34						

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

sample volume/weight used and final volumes refer to extraction log.

**101 23**

If 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

Form: OR015-05

Rev. Date: 1/16/2006

EXT-SO10-500

BAL ID B3



ACCUTEST

## SOLID/LIQUID EXTRACTION

BATCH # 1546301-1 RACK#

EXTRACTION TIME: 3:00 PM

Sonication

Pressurized Fluid (ASE)

Soxhlet

EXTRACTION METHOD (circle one)

SW846 3550B / CLP / other

SW846 3545 / CLP / other

SW846 3540C / other

Supervisor Review

EXTRACTION DATE: 10/22/10

ANALYST: SL

METHOD: A158270

Water Bath Temp(C) 82

Nitrogen Evap Temp(C) 35

Signature

Date

10/22/10

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 1			ABN	Na2SO4	35.0			1	clear					BASE	OP 10501-2	50	1	
BS 1				Na2SO4	35.0			1	yellow					ACID	OP 10501-1	50	1	
JAS8750-11 MS		2		mud		/		1	yellow					PPCB				
MSD		2		mud		/		1	yellow					HERB				
BS 1																		
MS 10/22/10																		
MSD																		
1 JAS8750-1		1	ABN	wet clay	35.0	/		1	yellow									
2 -2		2		mud	35.2	/		1	yellow					BASE #1	OP 1050113	50	1	
3 -3		1		mud	35.1	/		1	yellow					ACID	OP 10420142	50	1	
4 -4		1		mud	35.1	/		1	yellow					PEST				
5 -5		1		mud	35.1	/		1	yellow					PCB				
6 -6		1		mud	35.1	/		1	light yellow					HERB				
7 -7		1		mud	35.1	/		1	light yellow					Base #2	OP 10420140	50	1	
8 -8		1		mud	35.1	/		1	yellow									
9 -9		1		mud	35.2	/		1	yellow									
10 -10		2		mud	35.1	/		1	yellow									
11 -11		2		mud	35.3	/		1	yellow					1:1 MC/ACE	OP 10420134	50	3/100	
12 -12		1		mud	35.3	/		1	light yellow					METH CHLOR				
13 -13		1		mud	35.1	/		1	light yellow					HEXANE				
14 -14		1		mud	35.3	/		1	light yellow					ACETONE				
15 -15		1		mud	35.2	/		1	light yellow					ETH ETHER				
16 -16		1		mud	35.1	/		1	light yellow									
17 -17		2		mud	35.2	/		1	light yellow									
18 -18		1		mud	35.0	/		1	yellow									
19																		
20																		

COMMENTS:	

COMMENTS:

## GC Semi-volatiles

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- DDT/Endrin Breakdown Checks
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

**Method Blank Summary**

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**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46195-MB1	WW95224.D 1		10/19/10	TDR	10/15/10	OP46195	GW3331

The QC reported here applies to the following samples:

Method: SW846 8151

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	14	4.6	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	2.9	0.55	ug/kg	
93-76-5	2,4,5-T	ND	2.9	1.1	ug/kg	
75-99-0	Dalapon	ND	2.9	2.0	ug/kg	
88-85-7	Dinoseb	ND	14	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Limits
19719-28-9	2,4-DCAA	86% 13-146%
19719-28-9	2,4-DCAA	79% 13-146%

9.1.1  
9

**Method Blank Summary**

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**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46352-MB1	1G58374.D	1	11/01/10	OPM	10/26/10	OP46352	G1G2128

**The QC reported here applies to the following samples:****Method:** SW846 8081A

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.2	0.53	ug/kg	
319-84-6	alpha-BHC	ND	1.2	0.36	ug/kg	
319-85-7	beta-BHC	ND	1.2	0.57	ug/kg	
319-86-8	delta-BHC	ND	1.2	0.32	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.2	0.36	ug/kg	
12789-03-6	Chlordane	ND	29	8.6	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.2	0.40	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.2	0.46	ug/kg	
60-57-1	Dieldrin	ND	1.2	0.40	ug/kg	
72-54-8	4,4'-DDD	ND	1.2	0.50	ug/kg	
72-55-9	4,4'-DDE	ND	1.2	0.41	ug/kg	
50-29-3	4,4'-DDT	ND	1.2	0.49	ug/kg	
72-20-8	Endrin	ND	1.2	0.41	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.2	0.45	ug/kg	
959-98-8	Endosulfan-I	ND	1.2	0.40	ug/kg	
33213-65-9	Endosulfan-II	ND	1.2	0.45	ug/kg	
76-44-8	Heptachlor	ND	1.2	0.53	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.2	0.45	ug/kg	
72-43-5	Methoxychlor	ND	1.2	0.52	ug/kg	
8001-35-2	Toxaphene	ND	15	14	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
877-09-8	Tetrachloro-m-xylene	85%	23-137%
877-09-8	Tetrachloro-m-xylene	87%	23-137%
2051-24-3	Decachlorobiphenyl	92%	22-160%
2051-24-3	Decachlorobiphenyl	91%	22-160%

9.1.2





**Method Blank Summary**

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**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46353-MB1	3G50312.D	1	10/26/10	TDR	10/26/10	OP46353	G3G1851

The QC reported here applies to the following samples:

Method: SW846 8082

JA58750-1, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	29	10	ug/kg	
11104-28-2	Aroclor 1221	ND	29	19	ug/kg	
11141-16-5	Aroclor 1232	ND	29	9.5	ug/kg	
53469-21-9	Aroclor 1242	ND	29	11	ug/kg	
12672-29-6	Aroclor 1248	ND	29	5.8	ug/kg	
11097-69-1	Aroclor 1254	ND	29	7.4	ug/kg	
11096-82-5	Aroclor 1260	ND	29	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	94%	22-141%
877-09-8	Tetrachloro-m-xylene	89%	22-141%
2051-24-3	Decachlorobiphenyl	105%	18-163%
2051-24-3	Decachlorobiphenyl	106%	18-163%

9.1.3

9

**Method Blank Summary**

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**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46323-MB2	XX100608.D 1		11/03/10	AZ	11/02/10	OP46323	GXX3909

The QC reported here applies to the following samples:

Method: SW846 8082

JA58750-2

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	29	10	ug/kg	
11104-28-2	Aroclor 1221	ND	29	19	ug/kg	
11141-16-5	Aroclor 1232	ND	29	9.5	ug/kg	
53469-21-9	Aroclor 1242	ND	29	11	ug/kg	
12672-29-6	Aroclor 1248	ND	29	5.8	ug/kg	
11097-69-1	Aroclor 1254	ND	29	7.4	ug/kg	
11096-82-5	Aroclor 1260	ND	29	11	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
877-09-8	Tetrachloro-m-xylene	82%	22-141%
877-09-8	Tetrachloro-m-xylene	89%	22-141%
2051-24-3	Decachlorobiphenyl	99%	18-163%
2051-24-3	Decachlorobiphenyl	105%	18-163%

9.1.4



**Method Blank Summary**

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**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46323-MB2	OA68394.D	1	11/03/10	AZ	11/02/10	OP46323	GOA2391

**The QC reported here applies to the following samples:****Method:** SW846 8082

JA58750-2

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	29	10	ug/kg	
11104-28-2	Aroclor 1221	ND	29	19	ug/kg	
11141-16-5	Aroclor 1232	ND	29	9.5	ug/kg	
53469-21-9	Aroclor 1242	ND	29	11	ug/kg	
12672-29-6	Aroclor 1248	ND	29	5.8	ug/kg	
11097-69-1	Aroclor 1254	ND	29	7.4	ug/kg	
11096-82-5	Aroclor 1260	ND	29	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	93%	22-141%
877-09-8	Tetrachloro-m-xylene	96%	22-141%
2051-24-3	Decachlorobiphenyl	103%	18-163%
2051-24-3	Decachlorobiphenyl	101%	18-163%

9.1.5  
9

**Method Blank Summary**

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**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46323-MB1	3G50278.D	1	10/26/10	TDR	10/23/10	OP46323	G3G1851

The QC reported here applies to the following samples:

Method: SW846 8082

OP46323-MS, OP46323-MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	29	10	ug/kg	
11104-28-2	Aroclor 1221	ND	29	19	ug/kg	
11141-16-5	Aroclor 1232	ND	29	9.5	ug/kg	
53469-21-9	Aroclor 1242	ND	29	11	ug/kg	
12672-29-6	Aroclor 1248	ND	29	5.8	ug/kg	
11097-69-1	Aroclor 1254	ND	29	7.4	ug/kg	
11096-82-5	Aroclor 1260	ND	29	11	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	84%	22-141%
877-09-8	Tetrachloro-m-xylene	85%	22-141%
2051-24-3	Decachlorobiphenyl	92%	18-163%
2051-24-3	Decachlorobiphenyl	103%	18-163%

9.1.6  
9

**Blank Spike Summary**

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**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46195-BS1	WW95225.D 1		10/19/10	TDR	10/15/10	OP46195	GW3331

**The QC reported here applies to the following samples:****Method:** SW846 8151

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
94-75-7	2,4-D	57.1	50.1	88	49-137
93-72-1	2,4,5-TP (Silvex)	11.4	12.8	112	63-136
93-76-5	2,4,5-T	11.4	10.5	92	51-148
75-99-0	Dalapon	11.4	13.3	116	18-170
88-85-7	Dinoseb	57.1	62.9	110	27-144

CAS No.	Surrogate Recoveries	BSP	Limits
19719-28-9	2,4-DCAA	101%	13-146%
19719-28-9	2,4-DCAA	92%	13-146%

9.2.1



**Blank Spike Summary**

Page 1 of 1

**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46352-BS1	1G58375.D	1	11/01/10	OPM	10/26/10	OP46352	G1G2128

The QC reported here applies to the following samples:

Method: SW846 8081A

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	14.7	11.3	77	57-149
319-84-6	alpha-BHC	14.7	11.3	77	56-150
319-85-7	beta-BHC	14.7	11.5	78	58-143
319-86-8	delta-BHC	14.7	12.2	83	36-152
58-89-9	gamma-BHC (Lindane)	14.7	11.4	78	57-149
5103-71-9	alpha-Chlordane	14.7	10.9	74	58-147
5103-74-2	gamma-Chlordane	14.7	11.5	78	57-151
60-57-1	Dieldrin	14.7	11.6	79	62-152
72-54-8	4,4'-DDD	14.7	12.6	86	59-151
72-55-9	4,4'-DDE	14.7	11.2	76	57-151
50-29-3	4,4'-DDT	14.7	11.2	76	54-155
72-20-8	Endrin	14.7	11.4	78	58-151
1031-07-8	Endosulfan sulfate	14.7	12.0	82	56-152
959-98-8	Endosulfan-I	14.7	11.6	79	57-150
33213-65-9	Endosulfan-II	14.7	12.5	85	60-146
76-44-8	Heptachlor	14.7	11.1	75	52-150
1024-57-3	Heptachlor epoxide	14.7	11.4	78	56-147
72-43-5	Methoxychlor	14.7	11.2	76	53-154

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	91%	23-137%
877-09-8	Tetrachloro-m-xylene	95%	23-137%
2051-24-3	Decachlorobiphenyl	94%	22-160%
2051-24-3	Decachlorobiphenyl	96%	22-160%

9.2.2



**Blank Spike Summary**

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**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46353-BS1	3G50313.D	1	10/26/10	TDR	10/26/10	OP46353	G3G1851

**The QC reported here applies to the following samples:****Method:** SW846 8082

JA58750-1, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	118	124	105	68-152
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	118	130	111	66-150

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	95%	22-141%
877-09-8	Tetrachloro-m-xylene	91%	22-141%
2051-24-3	Decachlorobiphenyl	109%	18-163%
2051-24-3	Decachlorobiphenyl	113%	18-163%

9.2.3

9

**Blank Spike Summary**

**Job Number:** JA58750  
**Account:** ENSRMAA AECOM, INC.  
**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46323-BS2	XX100609.D 1		11/03/10	AZ	11/02/10	OP46323	GXX3909

The QC reported here applies to the following samples: Method: SW846 8082

JA58750-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	118	119	101	68-152
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	118	125	106	66-150

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	90%	22-141%
877-09-8	Tetrachloro-m-xylene	89%	22-141%
2051-24-3	Decachlorobiphenyl	98%	18-163%
2051-24-3	Decachlorobiphenyl	103%	18-163%

9.2.4  
**9**



**Blank Spike Summary**

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Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46323-BS2	OA68395.D	1	11/03/10	AZ	11/02/10	OP46323	GOA2391

The QC reported here applies to the following samples:

Method: SW846 8082

JA58750-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	118	145	123	68-152
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	118	141	120	66-150

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	104%	22-141%
877-09-8	Tetrachloro-m-xylene	105%	22-141%
2051-24-3	Decachlorobiphenyl	110%	18-163%
2051-24-3	Decachlorobiphenyl	109%	18-163%

9.2.5  
9

**Matrix Spike/Matrix Spike Duplicate Summary**

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**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46195-MS	WW95327.D 1		10/21/10	TDR	10/15/10	OP46195	GWW3334
OP46195-MSD	WW95328.D 1		10/22/10	TDR	10/15/10	OP46195	GWW3334
JA58750-11	WW95330.D 1		10/22/10	TDR	10/15/10	OP46195	GWW3334

The QC reported here applies to the following samples:

Method: SW846 8151

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	JA58750-11 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
94-75-7	2,4-D	ND		68.4	73.4	107	81.6	119	11	26-139/58
93-72-1	2,4,5-TP (Silvex)	ND		13.7	17.4	127	15.7	115	10	25-149/54
93-76-5	2,4,5-T	ND		13.7	14.6	107	13.7	100	6	18-164/59
75-99-0	Dalapon	ND		13.7	66.4	485*	38.8	283*	52	4-188/58
88-85-7	Dinoseb	ND		68.4	91.7	134	84.7	124	8	2-140/59

CAS No.	Surrogate Recoveries	MS	MSD	JA58750-11	Limits
19719-28-9	2,4-DCAA	107%	108%	90%	13-146%
19719-28-9	2,4-DCAA	79%	75%	51%	13-146%

9.3.1  
9

**Matrix Spike/Matrix Spike Duplicate Summary**

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Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46352-MS	1G58376.D	1	11/01/10	OPM	10/26/10	OP46352	G1G2128
OP46352-MSD	1G58377.D	1	11/01/10	OPM	10/26/10	OP46352	G1G2128
JA58750-11	1G58389.D	1	11/02/10	OPM	10/26/10	OP46352	G1G2128

The QC reported here applies to the following samples:

Method: SW846 8081A

JA58750-1, JA58750-2, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	JA58750-11 ug/kg	Spike Q	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND	17.6	9.7	55	9.6	55	1	21-171/47
319-84-6	alpha-BHC	ND	17.6	11.4	65	11.3	64	1	23-174/44
319-85-7	beta-BHC	ND	17.6	10.8	61	10.9	62	1	14-172/46
319-86-8	delta-BHC	ND	17.6	10.6	60	10.4	59	2	8-164/48
58-89-9	gamma-BHC (Lindane)	ND	17.6	9.7	55	9.7	55	0	23-163/45
12789-03-6	Chlordane	ND		ND		ND		nc	50-150/30
5103-71-9	alpha-Chlordane	ND	17.6	10.1	57	9.8	56	3	20-170/45
5103-74-2	gamma-Chlordane	ND	17.6	10.6	60	11.3	64	6	19-165/47
60-57-1	Dieldrin	ND	17.6	11.1	63	11.1	63	0	22-173/46
72-54-8	4,4'-DDD	ND	17.6	12.5	71	12.5	71	0	18-179/46
72-55-9	4,4'-DDE	ND	17.6	11.2	64	11.5	65	3	20-188/44
50-29-3	4,4'-DDT	ND	17.6	12.6	72	12.6	72	0	21-193/47
72-20-8	Endrin	ND	17.6	11.2	64	11.3	64	1	26-172/48
1031-07-8	Endosulfan sulfate	ND	17.6	5.7	32	4.5	26	24	1-159/52
959-98-8	Endosulfan-I	ND	17.6	10.8	61	10.9	62	1	20-156/43
33213-65-9	Endosulfan-II	ND	17.6	11.3	64	11.0	62	3	10-158/50
76-44-8	Heptachlor	ND	17.6	9.7	55	9.6	55	1	27-163/46
1024-57-3	Heptachlor epoxide	ND	17.6	10.7	61	10.7	61	0	21-161/47
72-43-5	Methoxychlor	ND	17.6	13.0	74	12.4	70	5	7-192/51
8001-35-2	Toxaphene	ND		ND		ND		nc	32-165/30

CAS No.	Surrogate Recoveries	MS	MSD	JA58750-11	Limits
877-09-8	Tetrachloro-m-xylene	63%	63%	79%	23-137%
877-09-8	Tetrachloro-m-xylene	64%	63%	76%	23-137%
2051-24-3	Decachlorobiphenyl	84%	85%	104%	22-160%
2051-24-3	Decachlorobiphenyl	84%	83%	93%	22-160%

**Matrix Spike/Matrix Spike Duplicate Summary**

Page 1 of 1

**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46323-MS	3G50291.D	1	10/26/10	TDR	10/23/10	OP46323	G3G1851
OP46323-MSD	3G50292.D	1	10/26/10	TDR	10/23/10	OP46323	G3G1851
JA59417-33	3G50293.D	1	10/26/10	TDR	10/23/10	OP46323	G3G1851

The QC reported here applies to the following samples:

Method: SW846 8082

JA58750-2

CAS No.	Compound	JA59417-33 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	148		131	89	139	94	6	28-185/42
11104-28-2	Aroclor 1221	ND			ND		ND		nc	70-130/30
11141-16-5	Aroclor 1232	ND			ND		ND		nc	70-130/30
53469-21-9	Aroclor 1242	ND			ND		ND		nc	70-130/30
12672-29-6	Aroclor 1248	ND			ND		ND		nc	70-130/13
11097-69-1	Aroclor 1254	ND			ND		ND		nc	70-130/20
11096-82-5	Aroclor 1260	ND	148		146	99	162	110	10	20-190/43

CAS No.	Surrogate Recoveries	MS	MSD	JA59417-33	Limits
877-09-8	Tetrachloro-m-xylene	75%	79%	78%	22-141%
877-09-8	Tetrachloro-m-xylene	73%	78%	76%	22-141%
2051-24-3	Decachlorobiphenyl	90%	99%	101%	18-163%
2051-24-3	Decachlorobiphenyl	95%	106%	106%	18-163%

9.3.3  
9

**Matrix Spike/Matrix Spike Duplicate Summary**

Page 1 of 1

**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46353-MS	3G50314.D	1	10/26/10	TDR	10/26/10	OP46353	G3G1851
OP46353-MSD	3G50315.D	1	10/26/10	TDR	10/26/10	OP46353	G3G1851
JA58750-11	3G50316.D	1	10/26/10	TDR	10/26/10	OP46353	G3G1851

**The QC reported here applies to the following samples:****Method:** SW846 8082

JA58750-1, JA58750-3, JA58750-4, JA58750-5, JA58750-6, JA58750-7, JA58750-8, JA58750-9, JA58750-10, JA58750-11, JA58750-12, JA58750-13, JA58750-14, JA58750-15, JA58750-16, JA58750-17, JA58750-18

CAS No.	Compound	JA58750-11 ug/kg	Spike Q	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	141	126	89	116	82	8	28-185/42
11104-28-2	Aroclor 1221	ND		ND		ND		nc	70-130/30
11141-16-5	Aroclor 1232	ND		ND		ND		nc	70-130/30
53469-21-9	Aroclor 1242	ND		ND		ND		nc	70-130/30
12672-29-6	Aroclor 1248	ND		ND		ND		nc	70-130/13
11097-69-1	Aroclor 1254	ND		ND		ND		nc	70-130/20
11096-82-5	Aroclor 1260	ND	141	163	116	150	106	8	20-190/43

CAS No.	Surrogate Recoveries	MS	MSD	JA58750-11	Limits
877-09-8	Tetrachloro-m-xylene	70%	67%	77%	22-141%
877-09-8	Tetrachloro-m-xylene	68%	64%	74%	22-141%
2051-24-3	Decachlorobiphenyl	107%	97%	98%	18-163%
2051-24-3	Decachlorobiphenyl	112%	101%	103%	18-163%

9.3.4  
9

**DDT/Endrin Breakdown Check**

Page 1 of 2

**Job Number:** JA58750**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

<b>Sample:</b> G1G2127-DDT	<b>Injection Date:</b> 11/01/10
<b>Lab File ID:</b> 1G58356.D	<b>Injection Time:</b> 17:30
<b>Instrument ID:</b> GC1G	

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	43332522	7052477
4,4'-DDE	42156813	7495262
4,4'-DDT	2971254754	578988716

DDT Breakdown <sup>a</sup>	2.8 %	2.5 %
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Endrin aldehyde	9191844	0
Endrin ketone	31359423	2986411
Endrin	3968075974	731666425

Endrin Breakdown <sup>b</sup>	1 %	0.4 %
-------------------------------	-----	-------

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100

(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G2127-IC2127	1G58358.D	11/01/10	18:00	00:30	Initial cal 1
G1G2127-IC2127	1G58359.D	11/01/10	18:15	00:45	Initial cal 2
G1G2127-IC2127	1G58360.D	11/01/10	18:31	01:00	Initial cal 5
G1G2127-IC2127	1G58361.D	11/01/10	18:46	01:15	Initial cal 10
G1G2127-ICC2127	1G58362.D	11/01/10	19:01	01:31	Initial cal 25
G1G2127-IC2127	1G58363.D	11/01/10	19:16	01:46	Initial cal 50
G1G2127-IC2127	1G58364.D	11/01/10	19:31	02:01	Initial cal 100
G1G2127-ICV2127	1G58367.D	11/01/10	20:16	02:46	Initial cal verification 25
G1G2127-IC2127	1G58368.D	11/01/10	20:31	03:01	Initial cal 500
G1G2127-IC2127	1G58369.D	11/01/10	20:46	03:16	Initial cal 500
G1G2128-CC2127	1G58370.D	11/01/10	21:02	03:31	Continuing cal 10
OP46429-MS	1G58372.D	11/01/10	21:32	04:02	Matrix Spike
OP46429-MSD	1G58373.D	11/01/10	21:47	04:17	Matrix Spike Duplicate
OP46352-MB1	1G58374.D	11/01/10	22:02	04:31	Method Blank
OP46352-BS1	1G58375.D	11/01/10	22:17	04:46	Blank Spike
OP46352-MS	1G58376.D	11/01/10	22:32	05:01	Matrix Spike
OP46352-MSD	1G58377.D	11/01/10	22:47	05:16	Matrix Spike Duplicate
JA58750-1	1G58378.D	11/01/10	23:02	05:31	BBNP-CW1-C
ZZZZZZ	1G58378.D	11/01/10	23:02	05:31	(unrelated sample)
JA58750-2	1G58379.D	11/01/10	23:18	05:47	BBNP-CW2-C
ZZZZZZ	1G58379.D	11/01/10	23:18	05:47	(unrelated sample)
JA58750-3	1G58380.D	11/01/10	23:33	06:02	BBNP-CW3-C
ZZZZZZ	1G58380.D	11/01/10	23:33	06:02	(unrelated sample)
G1G2128-CC2127	1G58381.D	11/01/10	23:48	06:17	Continuing cal 25

## DDT/Endrin Breakdown Check

Page 2 of 2

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: G1G2127-DDT

Injection Date: 11/01/10

Lab File ID: 1G58356.D

Injection Time: 17:30

Instrument ID: GC1G

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JA58750-4	1G58383.D	11/02/10	00:18	06:47	BBNP-CW6-C
ZZZZZZ	1G58383.D	11/02/10	00:18	06:47	(unrelated sample)
JA58750-5	1G58384.D	11/02/10	00:33	07:02	BBNP-CW9-C
ZZZZZZ	1G58384.D	11/02/10	00:33	07:02	(unrelated sample)
JA58750-6	1G58385.D	11/02/10	00:48	07:17	BBNP-CW9-FD
ZZZZZZ	1G58385.D	11/02/10	00:48	07:17	(unrelated sample)
JA58750-8	1G58386.D	11/02/10	01:03	07:33	BBNP-CW15-C
ZZZZZZ	1G58386.D	11/02/10	01:03	07:33	(unrelated sample)
JA58750-9	1G58387.D	11/02/10	01:18	07:48	BBNP-CW18-C
ZZZZZZ	1G58387.D	11/02/10	01:18	07:48	(unrelated sample)
JA58750-10	1G58388.D	11/02/10	01:34	08:04	BBNP-CW21-C
ZZZZZZ	1G58388.D	11/02/10	01:34	08:04	(unrelated sample)
JA58750-11	1G58389.D	11/02/10	01:49	08:19	BBNP-CW5-C
ZZZZZZ	1G58389.D	11/02/10	01:49	08:19	(unrelated sample)
JA58750-12	1G58390.D	11/02/10	02:04	08:34	BBNP-CW8-C
ZZZZZZ	1G58390.D	11/02/10	02:04	08:34	(unrelated sample)
JA58750-13	1G58391.D	11/02/10	02:19	08:49	BBNP-CW11-C
ZZZZZZ	1G58391.D	11/02/10	02:19	08:49	(unrelated sample)
G1G2128-CC2127	1G58392.D	11/02/10	02:34	09:04	Continuing cal 10
JA58750-14	1G58394.D	11/02/10	03:04	09:34	BBNP-CW14-C
ZZZZZZ	1G58394.D	11/02/10	03:04	09:34	(unrelated sample)
JA58750-15	1G58395.D	11/02/10	03:19	09:49	BBNP-CW17-C
ZZZZZZ	1G58395.D	11/02/10	03:19	09:49	(unrelated sample)
JA58750-16	1G58396.D	11/02/10	03:35	10:04	BBNP-CW20-C
ZZZZZZ	1G58396.D	11/02/10	03:35	10:04	(unrelated sample)
JA58750-17	1G58397.D	11/02/10	03:50	10:20	BBNP-CW23-C
ZZZZZZ	1G58397.D	11/02/10	03:50	10:20	(unrelated sample)
JA58750-18	1G58398.D	11/02/10	04:05	10:35	BBNP-CW20-C-FD
ZZZZZZ	1G58398.D	11/02/10	04:05	10:35	(unrelated sample)
JA58750-7	1G58399.D	11/02/10	04:20	10:50	BBNP-CW12-C
ZZZZZZ	1G58399.D	11/02/10	04:20	10:50	(unrelated sample)
G1G2128-ECC2127	1G58400.D	11/02/10	04:50	11:20	Ending cal 25
G1G2129-CC2127	1G58402.D	11/02/10	09:15	15:45	Continuing cal 10

9.4.1



## GC Identification Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	GWW3331-CC3143	Injection Date:	10/19/10
Lab File ID:	WW95222.D	Injection Time:	10:35
Instrument ID:	GCWW	Method:	SW846 8151

Sample ID:	OP46195-BS1	Injection Date:	10/19/10
Lab File ID:	WW95225.D	Injection Time:	12:36
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
2,4-D	1	16.86	16.87	53.0		ug/kg	
2,4-D	2 <sup>a</sup>	16.38	16.39	50.1		ug/kg	5.6
2,4,5-TP (Silvex)	1 <sup>a</sup>	17.93	17.94	12.8		ug/kg	
2,4,5-TP (Silvex)	2	17.40	17.41	13.3		ug/kg	3.8
2,4,5-T	1 <sup>a</sup>	18.34	18.37	10.5		ug/kg	
2,4,5-T	2	17.92	17.95	10.2		ug/kg	2.9
Dalapon	1 <sup>a</sup>	6.09	6.09	13.3		ug/kg	
Dalapon	2	5.17	5.17	18.7		ug/kg	33.8
Dinoseb	1 <sup>a</sup>	20.25	20.25	62.9		ug/kg	
Dinoseb	2	18.87	18.88	62.9		ug/kg	0.0

(a) QC results reported from this column.

9.5.1  
9



## GC Identification Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	GW3334-CC3143	Injection Date:	10/21/10
Lab File ID:	WW95325.D	Injection Time:	22:26
Instrument ID:	GCWW	Method:	SW846 8151

Sample ID:	OP46195-MS	Injection Date:	10/21/10
Lab File ID:	WW95327.D	Injection Time:	23:30
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
2,4-D	1 <sup>a</sup>	16.84	16.88	73.4		ug/kg	
2,4-D	2	16.37	16.40	70.6		ug/kg	3.9
2,4,5-TP (Silvex)	1 <sup>a</sup>	17.93	17.94	17.4		ug/kg	
2,4,5-TP (Silvex)	2	17.40	17.41	16.9		ug/kg	2.9
2,4,5-T	1 <sup>a</sup>	18.33	18.39	14.6		ug/kg	
2,4,5-T	2	17.91	17.96	12.7		ug/kg	13.9
Dalapon	1 <sup>a</sup>	6.08	6.09	66.4	E	ug/kg	
Dalapon	2	5.16	5.17	268	E	ug/kg	120.6
Dinoseb	1 <sup>a</sup>	20.25	20.26	91.7		ug/kg	
Dinoseb	2	18.87	18.88	74.6		ug/kg	20.6

(a) QC results reported from this column.

9.5.2  
9

## GC Identification Summary

Page 1 of 1

**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

<b>Check Std:</b> GWW3334-CC3143	<b>Injection Date:</b> 10/21/10
<b>Lab File ID:</b> WW95325.D	<b>Injection Time:</b> 22:26
<b>Instrument ID:</b> GCWW	<b>Method:</b> SW846 8151

<b>Sample ID:</b> OP46195-MSD	<b>Injection Date:</b> 10/22/10
<b>Lab File ID:</b> WW95328.D	<b>Injection Time:</b> 00:07
<b>Client ID:</b> Matrix Spike Duplicate	

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
2,4-D	1 <sup>a</sup>	16.84	16.88	81.6		ug/kg	22.2
2,4-D	2	16.37	16.40	65.3		ug/kg	
2,4,5-TP (Silvex)	1 <sup>a</sup>	17.93	17.94	15.7		ug/kg	14.2
2,4,5-TP (Silvex)	2	17.40	17.41	18.1		ug/kg	
2,4,5-T	1 <sup>a</sup>	18.33	18.39	13.7		ug/kg	18.3
2,4,5-T	2	17.91	17.96	11.4		ug/kg	
Dalapon	1 <sup>a</sup>	6.09	6.09	38.8	E	ug/kg	64.6
Dalapon	2	5.16	5.17	75.8	E	ug/kg	
Dinoseb	1 <sup>a</sup>	20.25	20.26	84.7		ug/kg	13.2
Dinoseb	2	18.87	18.88	74.2		ug/kg	

(a) QC results reported from this column.

9.5.3  
6

## GC Identification Summary

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**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

**Check Std:** G1G2128-CC2127

**Injection Date:** 11/01/10

**Lab File ID:** 1G58370.D

**Injection Time:** 21:02

**Instrument ID:** GC1G

**Method:** SW846 8081A

**Sample ID:** JA58750-2

**Injection Date:** 11/01/10

**Lab File ID:** 1G58379.D

**Injection Time:** 23:18

**Client ID:** BBNP-CW2-C

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4'-DDT	1 <sup>a</sup>	5.35	5.39	1.8		ug/kg	50.0
4,4'-DDT	2	6.72	6.72	3.0		ug/kg	

(a) Final result reported from this column.

9.5.4

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## GC Identification Summary

Page 1 of 1

**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

<b>Check Std:</b>	G1G2128-CC2127	<b>Injection Date:</b>	11/02/10
<b>Lab File ID:</b>	1G58392.D	<b>Injection Time:</b>	02:34
<b>Instrument ID:</b>	GC1G	<b>Method:</b>	SW846 8081A

<b>Sample ID:</b>	JA58750-14	<b>Injection Date:</b>	11/02/10
<b>Lab File ID:</b>	1G58394.D	<b>Injection Time:</b>	03:04
<b>Client ID:</b>	BBNP-CW14-C		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4'-DDE	1	4.23	4.23	2.0		ug/kg	10.5
4,4'-DDE	2 <sup>a</sup>	5.34	5.34	1.8		ug/kg	
4,4'-DDT	1 <sup>a</sup>	5.39	5.39	2.7		ug/kg	68.3
4,4'-DDT	2	6.72	6.72	5.5		ug/kg	

(a) Final result reported from this column.

9.5.5  
6

## GC Identification Summary

Page 1 of 1

**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

**Check Std:** G1G2128-CC2127

**Injection Date:** 11/02/10

**Lab File ID:** 1G58392.D

**Injection Time:** 02:34

**Instrument ID:** GC1G

**Method:** SW846 8081A

**Sample ID:** JA58750-17

**Injection Date:** 11/02/10

**Lab File ID:** 1G58397.D

**Injection Time:** 03:50

**Client ID:** BBNP-CW23-C

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4' -DDT	1 <sup>a</sup>	5.39	5.39	1.9		ug/kg	5.1
4,4' -DDT	2	6.71	6.72	2.0		ug/kg	

(a) Final result reported from this column.

9.5.6

9

## GC Identification Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	G1G2128-CC2127	Injection Date:	11/01/10
Lab File ID:	1G58370.D	Injection Time:	21:02
Instrument ID:	GC1G	Method:	SW846 8081A

Sample ID:	OP46352-BS1	Injection Date:	11/01/10
Lab File ID:	1G58375.D	Injection Time:	22:17
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 <sup>a</sup>	3.22	3.22	11.3		ug/kg	4.3
Aldrin	2	3.94	3.94	11.8		ug/kg	
alpha-BHC	1 <sup>a</sup>	2.31	2.31	11.3		ug/kg	4.3
alpha-BHC	2	2.76	2.76	11.8		ug/kg	
beta-BHC	1 <sup>a</sup>	2.60	2.60	11.5		ug/kg	6.7
beta-BHC	2	3.15	3.15	12.3		ug/kg	
delta-BHC	1 <sup>a</sup>	2.75	2.75	12.2		ug/kg	2.4
delta-BHC	2	3.47	3.46	12.5		ug/kg	
gamma-BHC (Lindane)	1 <sup>a</sup>	2.54	2.54	11.4		ug/kg	5.1
gamma-BHC (Lindane)	2	3.08	3.08	12.0		ug/kg	
alpha-Chlordane	1 <sup>a</sup>	4.14	4.13	10.9		ug/kg	12.1
alpha-Chlordane	2	5.10	5.10	12.3		ug/kg	
gamma-Chlordane	1 <sup>a</sup>	3.98	3.98	11.5		ug/kg	4.3
gamma-Chlordane	2	4.90	4.90	12.0		ug/kg	
Dieldrin	1 <sup>a</sup>	4.59	4.59	11.6		ug/kg	8.3
Dieldrin	2	5.57	5.57	12.6		ug/kg	
4,4'-DDD	1 <sup>a</sup>	5.00	5.00	12.6		ug/kg	1.6
4,4'-DDD	2	6.22	6.22	12.8		ug/kg	
4,4'-DDE	1 <sup>a</sup>	4.23	4.23	11.2		ug/kg	10.2
4,4'-DDE	2	5.34	5.34	12.4		ug/kg	
4,4'-DDT	1 <sup>a</sup>	5.39	5.39	11.2		ug/kg	5.2
4,4'-DDT	2	6.72	6.72	11.8		ug/kg	
Endrin	1 <sup>a</sup>	4.89	4.89	11.4		ug/kg	7.6
Endrin	2	6.02	6.02	12.3		ug/kg	
Endosulfan sulfate	1 <sup>a</sup>	6.44	6.44	12.0		ug/kg	3.3
Endosulfan sulfate	2	7.34	7.34	12.4		ug/kg	
Endosulfan-I	1 <sup>a</sup>	4.30	4.30	11.6		ug/kg	6.7
Endosulfan-I	2	5.18	5.18	12.4		ug/kg	
Endosulfan-II	1	5.19	5.19	12.6		ug/kg	0.8
Endosulfan-II	2 <sup>a</sup>	6.35	6.35	12.5		ug/kg	
Heptachlor	1 <sup>a</sup>	2.94	2.93	11.1		ug/kg	4.4
Heptachlor	2	3.56	3.56	11.6		ug/kg	
Heptachlor epoxide	1 <sup>a</sup>	3.84	3.84	11.4		ug/kg	6.8
Heptachlor epoxide	2	4.65	4.65	12.2		ug/kg	
Methoxychlor	1 <sup>a</sup>	6.15	6.15	11.2		ug/kg	6.9
Methoxychlor	2	7.88	7.88	12.0		ug/kg	

(a) QC results reported from this column.

9.5.7



## GC Identification Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	G1G2128-CC2127	Injection Date:	11/01/10
Lab File ID:	1G58370.D	Injection Time:	21:02
Instrument ID:	GC1G	Method:	SW846 8081A

Sample ID:	OP46352-MS	Injection Date:	11/01/10
Lab File ID:	1G58376.D	Injection Time:	22:32
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 <sup>a</sup>	3.22	3.22	9.7		ug/kg	
Aldrin	2	3.94	3.94	9.9		ug/kg	2.0
alpha-BHC	1 <sup>a</sup>	2.31	2.31	11.4		ug/kg	
alpha-BHC	2	2.76	2.76	9.4		ug/kg	19.2
beta-BHC	1 <sup>a</sup>	2.60	2.60	10.8		ug/kg	
beta-BHC	2	3.15	3.15	11.0		ug/kg	1.8
delta-BHC	1 <sup>a</sup>	2.75	2.75	10.6		ug/kg	
delta-BHC	2	3.47	3.46	10.7		ug/kg	0.9
gamma-BHC (Lindane)	1 <sup>a</sup>	2.54	2.54	9.7		ug/kg	
gamma-BHC (Lindane)	2	3.09	3.08	9.9		ug/kg	2.0
alpha-Chlordane	1 <sup>a</sup>	4.14	4.13	10.1		ug/kg	
alpha-Chlordane	2	5.10	5.10	11.6		ug/kg	13.8
gamma-Chlordane	1 <sup>a</sup>	3.98	3.98	10.6		ug/kg	
gamma-Chlordane	2	4.90	4.90	11.4		ug/kg	7.3
Dieldrin	1 <sup>a</sup>	4.60	4.59	11.1		ug/kg	
Dieldrin	2	5.58	5.57	11.9		ug/kg	7.0
4,4'-DDD	1 <sup>a</sup>	5.00	5.00	12.5		ug/kg	
4,4'-DDD	2	6.22	6.22	13.0		ug/kg	3.9
4,4'-DDE	1 <sup>a</sup>	4.23	4.23	11.2		ug/kg	
4,4'-DDE	2	5.35	5.34	12.1		ug/kg	7.7
4,4'-DDT	1 <sup>a</sup>	5.39	5.39	12.6		ug/kg	
4,4'-DDT	2	6.72	6.72	13.3		ug/kg	5.4
Endrin	1 <sup>a</sup>	4.89	4.89	11.2		ug/kg	
Endrin	2	6.02	6.02	11.9		ug/kg	6.1
Endosulfan sulfate	1 <sup>a</sup>	6.44	6.44	5.7		ug/kg	
Endosulfan sulfate	2	7.34	7.34	6.1		ug/kg	6.8
Endosulfan-I	1 <sup>a</sup>	4.30	4.30	10.8		ug/kg	
Endosulfan-I	2	5.18	5.18	11.3		ug/kg	4.5
Endosulfan-II	1 <sup>a</sup>	5.20	5.19	11.3		ug/kg	
Endosulfan-II	2	6.35	6.35	11.5		ug/kg	1.8
Heptachlor	1 <sup>a</sup>	2.94	2.93	9.7		ug/kg	
Heptachlor	2	3.57	3.56	9.6		ug/kg	1.0
Heptachlor epoxide	1 <sup>a</sup>	3.84	3.84	10.7		ug/kg	
Heptachlor epoxide	2	4.65	4.65	10.8		ug/kg	0.9
Methoxychlor	1 <sup>a</sup>	6.15	6.15	13.0		ug/kg	
Methoxychlor	2	7.88	7.88	13.0		ug/kg	0.0

(a) QC results reported from this column.

9.5.8



## GC Identification Summary

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Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	G1G2128-CC2127	Injection Date:	11/01/10
Lab File ID:	1G58370.D	Injection Time:	21:02
Instrument ID:	GC1G	Method:	SW846 8081A

Sample ID:	OP46352-MSD	Injection Date:	11/01/10
Lab File ID:	1G58377.D	Injection Time:	22:47
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 <sup>a</sup>	3.22	3.22	9.6		ug/kg	1.0
Aldrin	2	3.94	3.94	9.7		ug/kg	
alpha-BHC	1 <sup>a</sup>	2.31	2.31	11.3		ug/kg	18.4
alpha-BHC	2	2.75	2.76	9.4		ug/kg	
beta-BHC	1 <sup>a</sup>	2.60	2.60	10.9		ug/kg	0.9
beta-BHC	2	3.15	3.15	11.0		ug/kg	
delta-BHC	1 <sup>a</sup>	2.75	2.75	10.4		ug/kg	1.0
delta-BHC	2	3.46	3.46	10.5		ug/kg	
gamma-BHC (Lindane)	1 <sup>a</sup>	2.54	2.54	9.7		ug/kg	1.0
gamma-BHC (Lindane)	2	3.08	3.08	9.8		ug/kg	
alpha-Chlordane	1 <sup>a</sup>	4.14	4.13	9.8		ug/kg	16.8
alpha-Chlordane	2	5.10	5.10	11.6		ug/kg	
gamma-Chlordane	1 <sup>a</sup>	3.98	3.98	11.3		ug/kg	1.8
gamma-Chlordane	2	4.90	4.90	11.5		ug/kg	
Dieldrin	1 <sup>a</sup>	4.59	4.59	11.1		ug/kg	7.0
Dieldrin	2	5.58	5.57	11.9		ug/kg	
4,4'-DDD	1 <sup>a</sup>	5.00	5.00	12.5		ug/kg	6.2
4,4'-DDD	2	6.22	6.22	13.3		ug/kg	
4,4'-DDE	1 <sup>a</sup>	4.23	4.23	11.5		ug/kg	7.5
4,4'-DDE	2	5.35	5.34	12.4		ug/kg	
4,4'-DDT	1 <sup>a</sup>	5.39	5.39	12.6		ug/kg	5.4
4,4'-DDT	2	6.72	6.72	13.3		ug/kg	
Endrin	1 <sup>a</sup>	4.89	4.89	11.3		ug/kg	5.2
Endrin	2	6.02	6.02	11.9		ug/kg	
Endosulfan sulfate	1 <sup>a</sup>	6.44	6.44	4.5		ug/kg	8.5
Endosulfan sulfate	2	7.34	7.34	4.9		ug/kg	
Endosulfan-I	1 <sup>a</sup>	4.30	4.30	10.9		ug/kg	3.6
Endosulfan-I	2	5.18	5.18	11.3		ug/kg	
Endosulfan-II	1 <sup>a</sup>	5.19	5.19	11.0		ug/kg	0.0
Endosulfan-II	2	6.35	6.35	11.0		ug/kg	
Heptachlor	1 <sup>a</sup>	2.94	2.93	9.6		ug/kg	0.0
Heptachlor	2	3.56	3.56	9.6		ug/kg	
Heptachlor epoxide	1 <sup>a</sup>	3.84	3.84	10.7		ug/kg	1.9
Heptachlor epoxide	2	4.65	4.65	10.9		ug/kg	
Methoxychlor	1 <sup>a</sup>	6.15	6.15	12.4		ug/kg	0.8
Methoxychlor	2	7.88	7.88	12.5		ug/kg	

(a) QC results reported from this column.



## GC Identification Summary

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Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	GXX3909-CC3901	Injection Date:	11/03/10
Lab File ID:	XX100602.D	Injection Time:	09:17
Instrument ID:	GCXX	Method:	SW846 8082

Sample ID:	OP46323-BS2	Injection Date:	11/03/10
Lab File ID:	XX100609.D	Injection Time:	12:47
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1			122		ug/kg	2.5
Aroclor 1016	2 <sup>a</sup>			119		ug/kg	
AR1016-A	1	2.55	2.55	128		ug/kg	
AR1016-A	2	3.47	3.47	116		ug/kg	
AR1016-B	1	2.92	2.92	125		ug/kg	
AR1016-B	2	4.01	4.01	125		ug/kg	
AR1016-C	1	3.45	3.46	115		ug/kg	
AR1016-C	2	4.65	4.65	118		ug/kg	
AR1016-D	1	3.61	3.62	121		ug/kg	
AR1016-D	2	4.98	4.98	114		ug/kg	
AR1016-E	1	4.11	4.12	123		ug/kg	
AR1016-E	2	5.51	5.51	124		ug/kg	
Aroclor 1260	1			126		ug/kg	0.8
Aroclor 1260	2 <sup>a</sup>			125		ug/kg	
AR1260-A	1	6.57	6.58	123		ug/kg	
AR1260-A	2	8.26	8.27	119		ug/kg	
AR1260-B	1	6.74	6.75	132		ug/kg	
AR1260-B	2	8.41	8.41	129		ug/kg	
AR1260-C	1	7.10	7.10	129		ug/kg	
AR1260-C	2	8.85	8.85	125		ug/kg	
AR1260-D	1	7.56	7.57	120		ug/kg	
AR1260-D	2	9.25	9.25	125		ug/kg	
AR1260-E	1	7.98	7.99	125		ug/kg	
AR1260-E	2	9.80	9.81	125		ug/kg	

(a) QC results reported from this column.

9.5.10



## GC Identification Summary

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Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	GOA2391-CC2389	Injection Date:	11/03/10
Lab File ID:	OA68391.D	Injection Time:	19:30
Instrument ID:	GCOA	Method:	SW846 8082

Sample ID:	OP46323-BS2	Injection Date:	11/03/10
Lab File ID:	OA68395.D	Injection Time:	21:07
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1			157		ug/kg	7.9
Aroclor 1016	2 <sup>a</sup>			145		ug/kg	
AR1016-A	1	3.49	3.49	162		ug/kg	
AR1016-A	2	3.69	3.69	145		ug/kg	
AR1016-B	1	4.21	4.21	150		ug/kg	
AR1016-B	2	4.43	4.43	143		ug/kg	
AR1016-C	1	4.35	4.34	157		ug/kg	
AR1016-C	2	4.65	4.65	147		ug/kg	
AR1016-D	1	5.11	5.11	158		ug/kg	
AR1016-D	2	5.45	5.45	147		ug/kg	
AR1016-E	1	5.34	5.34	157		ug/kg	
AR1016-E	2	5.63	5.63	141		ug/kg	
Aroclor 1260	1			153		ug/kg	8.2
Aroclor 1260	2 <sup>a</sup>			141		ug/kg	
AR1260-A	1	8.04	8.04	149		ug/kg	
AR1260-A	2	8.24	8.24	139		ug/kg	
AR1260-B	1	8.88	8.89	156		ug/kg	
AR1260-B	2	9.03	9.03	142		ug/kg	
AR1260-C	1	9.36	9.36	157		ug/kg	
AR1260-C	2	9.64	9.64	147		ug/kg	
AR1260-D	1	9.98	9.97	151		ug/kg	
AR1260-D	2	10.25	10.25	140		ug/kg	
AR1260-E	1	10.54	10.54	155		ug/kg	
AR1260-E	2	10.95	10.95	139		ug/kg	

(a) QC results reported from this column.

9.5.11

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## GC Identification Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std: G3G1851-CC1826

Injection Date: 10/26/10

Lab File ID: 3G50310.D

Injection Time: 20:10

Instrument ID: GC3G

Method: SW846 8082

Sample ID: OP46353-BS1

Injection Date: 10/26/10

Lab File ID: 3G50313.D

Injection Time: 20:55

Client ID: Blank Spike

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1			125		ug/kg	0.8
Aroclor 1016	2 <sup>a</sup>			124		ug/kg	
AR1016-A	1	2.66	2.66	122		ug/kg	
AR1016-A	2	2.61	2.61	119		ug/kg	
AR1016-B	1	3.03	3.03	126		ug/kg	
AR1016-B	2	3.01	3.01	126		ug/kg	
AR1016-C	1	3.56	3.55	119		ug/kg	
AR1016-C	2	3.52	3.52	113		ug/kg	
AR1016-D	1	3.71	3.71	124		ug/kg	
AR1016-D	2	3.67	3.66	139		ug/kg	
AR1016-E	1	4.18	4.18	132		ug/kg	
AR1016-E	2	4.19	4.19	123		ug/kg	
Aroclor 1260	1			129		ug/kg	0.8
Aroclor 1260	2 <sup>a</sup>			130		ug/kg	
AR1260-A	1	6.02	6.02	126		ug/kg	
AR1260-A	2	6.02	6.02	129		ug/kg	
AR1260-B	1	6.38	6.38	126		ug/kg	
AR1260-B	2	6.45	6.45	128		ug/kg	
AR1260-C	1	6.83	6.83	131		ug/kg	
AR1260-C	2	6.93	6.93	142		ug/kg	
AR1260-E	1	7.60	7.60	131		ug/kg	
AR1260-E	2	7.73	7.73	120		ug/kg	

(a) QC results reported from this column.

9.5.12  
9

## GC Identification Summary

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Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	G3G1851-CC1826	Injection Date:	10/26/10
Lab File ID:	3G50288.D	Injection Time:	13:01
Instrument ID:	GC3G	Method:	SW846 8082

Sample ID:	OP46323-MS	Injection Date:	10/26/10
Lab File ID:	3G50291.D	Injection Time:	13:42
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 <sup>a</sup>			131		ug/kg	2.3
Aroclor 1016	2			134		ug/kg	
AR1016-A	1	2.66	2.65	125		ug/kg	
AR1016-A	2	2.60	2.60	130		ug/kg	
AR1016-B	1	3.02	3.02	130		ug/kg	
AR1016-B	2	3.01	3.01	135		ug/kg	
AR1016-C	1	3.55	3.55	128		ug/kg	
AR1016-C	2	3.52	3.52	125		ug/kg	
AR1016-D	1	3.71	3.70	132		ug/kg	
AR1016-D	2	3.67	3.66	148		ug/kg	
AR1016-E	1	4.18	4.17	139		ug/kg	
AR1016-E	2	4.19	4.19	133		ug/kg	
Aroclor 1260	1 <sup>a</sup>			146		ug/kg	0.7
Aroclor 1260	2			147		ug/kg	
AR1260-A	1	6.02	6.02	141		ug/kg	
AR1260-A	2	6.02	6.02	147		ug/kg	
AR1260-B	1	6.38	6.38	140		ug/kg	
AR1260-B	2	6.45	6.45	140		ug/kg	
AR1260-C	1	6.83	6.83	146		ug/kg	
AR1260-C	2	6.94	6.94	151		ug/kg	
AR1260-D	1	7.24	7.23	160		ug/kg	
AR1260-D	2	7.28	7.28	155		ug/kg	
AR1260-E	1	7.60	7.60	143		ug/kg	
AR1260-E	2	7.73	7.73	140		ug/kg	

(a) QC results reported from this column.

9.5.13  
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## GC Identification Summary

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Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std: G3G1851-CC1826

Injection Date: 10/26/10

Lab File ID: 3G50310.D

Injection Time: 20:10

Instrument ID: GC3G

Method: SW846 8082

Sample ID: OP46353-MS

Injection Date: 10/26/10

Lab File ID: 3G50314.D

Injection Time: 21:11

Client ID: Matrix Spike

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 <sup>a</sup>			126		ug/kg	3.1
Aroclor 1016	2			130		ug/kg	
AR1016-A	1	2.66	2.66	107		ug/kg	
AR1016-A	2	2.61	2.61	118		ug/kg	
AR1016-B	1	3.03	3.03	122		ug/kg	
AR1016-B	2	3.01	3.01	126		ug/kg	
AR1016-C	1	3.56	3.55	125		ug/kg	
AR1016-C	2	3.52	3.52	120		ug/kg	
AR1016-D	1	3.71	3.71	129		ug/kg	
AR1016-D	2	3.67	3.66	147		ug/kg	
AR1016-E	1	4.18	4.18	146		ug/kg	
AR1016-E	2	4.19	4.19	139		ug/kg	
Aroclor 1260	1 <sup>a</sup>			163		ug/kg	1.2
Aroclor 1260	2			161		ug/kg	
AR1260-A	1	6.02	6.02	156		ug/kg	
AR1260-A	2	6.02	6.02	162		ug/kg	
AR1260-B	1	6.38	6.38	161		ug/kg	
AR1260-B	2	6.45	6.45	160		ug/kg	
AR1260-C	1	6.83	6.83	168		ug/kg	
AR1260-C	2	6.93	6.93	166		ug/kg	
AR1260-E	1	7.60	7.60	168		ug/kg	
AR1260-E	2	7.73	7.73	156		ug/kg	

(a) QC results reported from this column.

9.5.14  
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## GC Identification Summary

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Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	G3G1851-CC1826	Injection Date:	10/26/10
Lab File ID:	3G50288.D	Injection Time:	13:01
Instrument ID:	GC3G	Method:	SW846 8082

Sample ID:	OP46323-MSD	Injection Date:	10/26/10
Lab File ID:	3G50292.D	Injection Time:	13:56
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 <sup>a</sup>			139		ug/kg	3.5
Aroclor 1016	2			144		ug/kg	
AR1016-A	1	2.66	2.65	130		ug/kg	
AR1016-A	2	2.60	2.60	141		ug/kg	
AR1016-B	1	3.03	3.02	138		ug/kg	
AR1016-B	2	3.01	3.01	144		ug/kg	
AR1016-C	1	3.55	3.55	137		ug/kg	
AR1016-C	2	3.52	3.52	135		ug/kg	
AR1016-D	1	3.71	3.70	141		ug/kg	
AR1016-D	2	3.67	3.66	158		ug/kg	
AR1016-E	1	4.17	4.17	149		ug/kg	
AR1016-E	2	4.19	4.19	144		ug/kg	
Aroclor 1260	1 <sup>a</sup>			162		ug/kg	2.4
Aroclor 1260	2			166		ug/kg	
AR1260-A	1	6.02	6.02	157		ug/kg	
AR1260-A	2	6.02	6.02	168		ug/kg	
AR1260-B	1	6.38	6.38	156		ug/kg	
AR1260-B	2	6.45	6.45	165		ug/kg	
AR1260-C	1	6.83	6.83	160		ug/kg	
AR1260-C	2	6.94	6.94	167		ug/kg	
AR1260-D	1	7.23	7.23	178		ug/kg	
AR1260-D	2	7.28	7.28	173		ug/kg	
AR1260-E	1	7.60	7.60	159		ug/kg	
AR1260-E	2	7.73	7.73	158		ug/kg	

(a) QC results reported from this column.

9.5.15



## GC Identification Summary

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Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	G3G1851-CC1826	Injection Date:	10/26/10
Lab File ID:	3G50310.D	Injection Time:	20:10
Instrument ID:	GC3G	Method:	SW846 8082

Sample ID:	OP46353-MSD	Injection Date:	10/26/10
Lab File ID:	3G50315.D	Injection Time:	21:26
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 <sup>a</sup>			116		ug/kg	1.7
Aroclor 1016	2			118		ug/kg	
AR1016-A	1	2.66	2.66	103		ug/kg	
AR1016-A	2	2.61	2.61	108		ug/kg	
AR1016-B	1	3.03	3.03	115		ug/kg	
AR1016-B	2	3.01	3.01	119		ug/kg	
AR1016-C	1	3.56	3.55	114		ug/kg	
AR1016-C	2	3.52	3.52	109		ug/kg	
AR1016-D	1	3.71	3.71	116		ug/kg	
AR1016-D	2	3.67	3.66	132		ug/kg	
AR1016-E	1	4.18	4.18	131		ug/kg	
AR1016-E	2	4.19	4.19	121		ug/kg	
Aroclor 1260	1 <sup>a</sup>			150		ug/kg	1.3
Aroclor 1260	2			148		ug/kg	
AR1260-A	1	6.02	6.02	143		ug/kg	
AR1260-A	2	6.02	6.02	147		ug/kg	
AR1260-B	1	6.38	6.38	146		ug/kg	
AR1260-B	2	6.45	6.45	147		ug/kg	
AR1260-C	1	6.83	6.83	158		ug/kg	
AR1260-C	2	6.94	6.93	154		ug/kg	
AR1260-E	1	7.60	7.60	154		ug/kg	
AR1260-E	2	7.73	7.73	143		ug/kg	

(a) QC results reported from this column.

9.5.16  
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## Semivolatile Surrogate Recovery Summary

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Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: SW846 8151

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 <sup>a</sup>	S1 <sup>b</sup>
JA58750-1	WW95226.D	90.0	52.0
JA58750-2	WW95322.D	101.0	56.0
JA58750-3	WW95323.D	89.0	58.0
JA58750-4	WW95324.D	87.0	95.0
JA58750-5	WW95227.D	101.0	54.0
JA58750-6	WW95329.D	88.0	49.0
JA58750-7	WW95228.D	104.0	94.0
JA58750-8	WW95229.D	106.0	69.0
JA58750-9	WW95254.D	96.0	60.0
JA58750-10	WW95230.D	99.0	53.0
JA58750-11	WW95330.D	90.0	51.0
JA58750-12	WW95331.D	81.0	51.0
JA58750-13	WW95340.D	104.0	59.0
JA58750-14	WW95332.D	80.0	44.0
JA58750-15	WW95333.D	98.0	47.0
JA58750-16	WW95334.D	29.0	179.0* <sup>c</sup>
JA58750-17	WW95231.D	87.0	51.0
JA58750-18	WW95253.D	96.0	48.0
OP46195-BS1	WW95225.D	101.0	92.0
OP46195-MB1	WW95224.D	86.0	79.0
OP46195-MS	WW95327.D	107.0	79.0
OP46195-MSD	WW95328.D	108.0	75.0

<b>Surrogate Compounds</b>	<b>Recovery Limits</b>
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S1 = 2,4-DCAA	13-146%
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(a) Recovery from GC signal #1

(b) Recovery from GC signal #2

(c) Outside control limits due to matrix interference.

9.6.1

9



## Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: SW846 8081A

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 <sup>a</sup>	S1 <sup>b</sup>	S2 <sup>a</sup>	S2 <sup>b</sup>
JA58750-1	1G58378.D	72.0	73.0	93.0	92.0
JA58750-2	1G58379.D	68.0	75.0	85.0	84.0
JA58750-3	1G58380.D	82.0	79.0	98.0	96.0
JA58750-4	1G58383.D	79.0	76.0	96.0	95.0
JA58750-5	1G58384.D	57.0	64.0	102.0	92.0
JA58750-6	1G58385.D	75.0	73.0	104.0	97.0
JA58750-7	1G58399.D	100.0	93.0	105.0	103.0
JA58750-8	1G58386.D	68.0	68.0	100.0	93.0
JA58750-9	1G58387.D	71.0	69.0	106.0	96.0
JA58750-10	1G58388.D	66.0	78.0	113.0	100.0
JA58750-11	1G58389.D	79.0	76.0	104.0	93.0
JA58750-12	1G58390.D	77.0	75.0	95.0	94.0
JA58750-13	1G58391.D	69.0	70.0	101.0	92.0
JA58750-14	1G58394.D	77.0	77.0	98.0	98.0
JA58750-15	1G58395.D	70.0	69.0	88.0	82.0
JA58750-16	1G58396.D	69.0	68.0	98.0	93.0
JA58750-17	1G58397.D	34.0	29.0	77.0	69.0
JA58750-18	1G58398.D	83.0	79.0	96.0	98.0
OP46352-BS1	1G58375.D	91.0	95.0	94.0	96.0
OP46352-MB1	1G58374.D	85.0	87.0	92.0	91.0
OP46352-MS	1G58376.D	63.0	64.0	84.0	84.0
OP46352-MSD	1G58377.D	63.0	63.0	85.0	83.0

### Surrogate Compounds

### Recovery Limits

S1 = Tetrachloro-m-xylene

23-137%

S2 = Decachlorobiphenyl

22-160%

(a) Recovery from GC signal #1

(b) Recovery from GC signal #2

9.6.2  
9

## Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: SW846 8082

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 <sup>a</sup>	S1 <sup>b</sup>	S2 <sup>a</sup>	S2 <sup>b</sup>
JA58750-1	3G50317.D	79.0	76.0	105.0	110.0
JA58750-2	OA68390.D	83.0	88.0	89.0	91.0
JA58750-3	3G50319.D	88.0	85.0	113.0	118.0
JA58750-4	3G50320.D	81.0	78.0	108.0	110.0
JA58750-5	3G50309.D	63.0	60.0	96.0	100.0
JA58750-6	3G50323.D	80.0	77.0	117.0	119.0
JA58750-7	3G50355.D	63.0	75.0	74.0	79.0
JA58750-8	3G50324.D	73.0	72.0	106.0	109.0
JA58750-9	3G50325.D	70.0	69.0	105.0	107.0
JA58750-10	3G50326.D	74.0	72.0	104.0	107.0
JA58750-11	3G50316.D	77.0	74.0	98.0	103.0
JA58750-12	3G50328.D	75.0	72.0	99.0	101.0
JA58750-13	3G50329.D	72.0	70.0	104.0	105.0
JA58750-14	3G50330.D	77.0	76.0	105.0	107.0
JA58750-15	3G50331.D	71.0	68.0	89.0	91.0
JA58750-16	3G50327.D	70.0	68.0	100.0	103.0
JA58750-17	3G50385.D	27.0	27.0	67.0	71.0
JA58750-18	3G50386.D	74.0	77.0	93.0	102.0
OP46323-BS2	OA68395.D	104.0	105.0	110.0	109.0
OP46323-BS2	XX100609.D	90.0	89.0	98.0	103.0
OP46323-MB2	OA68394.D	93.0	96.0	103.0	101.0
OP46323-MB2	XX100608.D	82.0	89.0	99.0	105.0
OP46323-MS	3G50291.D	75.0	73.0	90.0	95.0
OP46323-MSD	3G50292.D	79.0	78.0	99.0	106.0
OP46353-BS1	3G50313.D	95.0	91.0	109.0	113.0
OP46353-MB1	3G50312.D	94.0	89.0	105.0	106.0
OP46353-MS	3G50314.D	70.0	68.0	107.0	112.0
OP46353-MSD	3G50315.D	67.0	64.0	97.0	101.0
OP46323-MB1	3G50278.D	84.0	85.0	92.0	103.0

### Surrogate Compounds

### Recovery Limits

S1 = Tetrachloro-m-xylene

22-141%

S2 = Decachlorobiphenyl

18-163%

(a) Recovery from GC signal #1

(b) Recovery from GC signal #2

9.6.3



# GC Surrogate Retention Time Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	GWV3331-CC3143	Injection Date:	10/19/10
Lab File ID:	WW95222.D	Injection Time:	10:35
Instrument ID:	GCWW	Method:	SW846 8151

S1 <sup>a</sup>	S1 <sup>b</sup>
RT	RT

Check Std	15.13	14.63
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Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT
OP46195-MB1	WW95224.D	10/19/10	12:06	15.17	14.67
OP46195-BS1	WW95225.D	10/19/10	12:36	15.13	14.63
JA58750-1	WW95226.D	10/19/10	12:53	15.15	14.65
ZZZZZZ	WW95226.D	10/19/10	12:53	15.15	14.65
JA58750-5	WW95227.D	10/19/10	13:37	15.15	14.65
ZZZZZZ	WW95227.D	10/19/10	13:37	15.15	14.65
JA58750-7	WW95228.D	10/19/10	13:54	15.14	14.65
ZZZZZZ	WW95228.D	10/19/10	13:54	15.14	14.65
JA58750-8	WW95229.D	10/19/10	14:26	15.14	14.64
ZZZZZZ	WW95229.D	10/19/10	14:26	15.14	14.64
JA58750-10	WW95230.D	10/19/10	14:56	15.15	14.65
ZZZZZZ	WW95230.D	10/19/10	14:56	15.15	14.65
JA58750-17	WW95231.D	10/19/10	15:27	15.15	14.65
ZZZZZZ	WW95231.D	10/19/10	15:27	15.15	14.65
ZZZZZZ	WW95232.D	10/19/10	15:58	15.14	14.65

## Surrogate Compounds

S1 = 2,4-DCAA

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.1  
9

## GC Surrogate Retention Time Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	GWW3332-CC3143	Injection Date:	10/20/10
Lab File ID:	WW95246.D	Injection Time:	09:09
Instrument ID:	GCWW	Method:	SW846 8151

S1 <sup>a</sup>	S1 <sup>b</sup>
RT	RT

Check Std	15.12	14.62
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Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT
OP46244-MB1	WW95248.D	10/20/10	10:16	15.17	14.67
OP46244-BS1	WW95249.D	10/20/10	10:50	15.12	14.63
OP46244-LS8	WW95250.D	10/20/10	11:11	15.12	14.62
OP46244-LB11	WW95251.D	10/20/10	11:47	15.18	14.68
ZZZZZZ	WW95252.D	10/20/10	12:15	15.12	14.63
JA58750-18	WW95253.D	10/20/10	12:45	15.14	14.65
ZZZZZZ	WW95253.D	10/20/10	12:45	15.14	14.65
JA58750-9	WW95254.D	10/20/10	13:16	15.14	14.64
ZZZZZZ	WW95254.D	10/20/10	13:16	15.14	14.64
GWW3332-ECC3143	WW95255.D	10/20/10	13:52	15.13	14.63

### Surrogate Compounds

S1 = 2,4-DCAA

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.2  
9

## GC Surrogate Retention Time Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	GWV3334-CC3143	Injection Date:	10/21/10
Lab File ID:	WW95314.D	Injection Time:	16:24
Instrument ID:	GCWW	Method:	SW846 8151

S1 <sup>a</sup>	S1 <sup>b</sup>
RT	RT

Check Std	15.14	14.64
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Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT
OP46267-BS1	WW95316.D	10/21/10	17:30	15.13	14.63
ZZZZZZ	WW95317.D	10/21/10	17:44	15.18	14.68
ZZZZZZ	WW95318.D	10/21/10	18:16	15.19	14.69
ZZZZZZ	WW95319.D	10/21/10	18:48	15.18	14.69
OP46267-LS11	WW95320.D	10/21/10	19:30	15.13	14.63
OP46267-LB15	WW95321.D	10/21/10	20:02	15.18	14.69
JA58750-2	WW95322.D	10/21/10	20:33	15.15	14.65
ZZZZZZ	WW95322.D	10/21/10	20:33	15.15	14.65
JA58750-3	WW95323.D	10/21/10	20:55	15.16	14.66
ZZZZZZ	WW95323.D	10/21/10	20:55	15.16	14.66
JA58750-4	WW95324.D	10/21/10	21:29	15.16	14.66
ZZZZZZ	WW95324.D	10/21/10	21:29	15.16	14.66

### Surrogate Compounds

S1 = 2,4-DCAA

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.3  
6

## GC Surrogate Retention Time Summary

Page 1 of 1

**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

<b>Check Std:</b> GWW3334-CC3143	<b>Injection Date:</b> 10/21/10
<b>Lab File ID:</b> WW95325.D	<b>Injection Time:</b> 22:26
<b>Instrument ID:</b> GCWW	<b>Method:</b> SW846 8151

<b>S1<sup>a</sup></b>	<b>S1<sup>b</sup></b>
<b>RT</b>	<b>RT</b>

Check Std	15.13	14.63
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Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT
OP46195-MS	WW95327.D	10/21/10	23:30	15.13	14.63
OP46195-MSD	WW95328.D	10/22/10	00:07	15.12	14.63
JA58750-6	WW95329.D	10/22/10	00:41	15.16	14.66
ZZZZZZ	WW95329.D	10/22/10	00:41	15.16	14.66
JA58750-11	WW95330.D	10/22/10	01:00	15.15	14.66
ZZZZZZ	WW95330.D	10/22/10	01:00	15.15	14.66
JA58750-12	WW95331.D	10/22/10	01:31	15.15	14.65
ZZZZZZ	WW95331.D	10/22/10	01:31	15.15	14.65
JA58750-14	WW95332.D	10/22/10	02:03	15.16	14.66
ZZZZZZ	WW95332.D	10/22/10	02:03	15.16	14.66
JA58750-15	WW95333.D	10/22/10	02:42	15.15	14.66
ZZZZZZ	WW95333.D	10/22/10	02:42	15.15	14.66
JA58750-16	WW95334.D	10/22/10	03:08	15.21	14.77
ZZZZZZ	WW95334.D	10/22/10	03:08	15.21	14.77
ZZZZZZ	WW95335.D	10/22/10	03:41	15.19	14.69
ZZZZZZ	WW95335.D	10/22/10	03:41	15.19	14.69

### Surrogate Compounds

S1 = 2,4-DCAA

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.4

9

## GC Surrogate Retention Time Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	GWV3334-CC3143	Injection Date:	10/22/10
Lab File ID:	WW95336.D	Injection Time:	04:44
Instrument ID:	GCWW	Method:	SW846 8151

S1 <sup>a</sup>	S1 <sup>b</sup>
RT	RT

Check Std	15.14	14.64
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Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT
OP46107-MB3	WW95337.D	10/22/10	05:22	15.19	14.69
OP46107-BS3	WW95338.D	10/22/10	05:43	15.13	14.63
ZZZZZZ	WW95339.D	10/22/10	06:17	15.19	14.69
ZZZZZZ	WW95339.D	10/22/10	06:17	15.19	14.69
JA58750-13	WW95340.D	10/22/10	06:47	15.15	14.66
ZZZZZZ	WW95340.D	10/22/10	06:47	15.15	14.66
OP46286-MB1	WW95343.D	10/22/10	08:59	15.20	14.70
OP46114-MB4	WW95343.D	10/22/10	08:59	15.20	14.70
OP46286-BS1	WW95344.D	10/22/10	09:39	15.13	14.63
OP46114-BS4	WW95344.D	10/22/10	09:39	15.13	14.63
OP46286-LB18	WW95345.D	10/22/10	10:10	15.21	14.71
ZZZZZZ	WW95346.D	10/22/10	10:32	15.20	14.70
ZZZZZZ	WW95347.D	10/22/10	11:22	15.15	14.65
ZZZZZZ	WW95348.D	10/22/10	11:56	15.21	14.70
ZZZZZZ	WW95349.D	10/22/10	12:29	15.15	14.66
OP46114-LB19	WW95350.D	10/22/10	13:02	15.21	14.71
OP46286-LB16	WW95351.D	10/22/10	13:37	15.21	14.71

### Surrogate Compounds

S1 = 2,4-DCAA

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.5  
6

## GC Surrogate Retention Time Summary

Page 1 of 1

**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

**Check Std:** G1G2128-CC2127

**Injection Date:** 11/01/10

**Lab File ID:** 1G58370.D

**Injection Time:** 21:02

**Instrument ID:** GC1G

**Method:** SW846 8081A

	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
Check Std	1.96	2.28	8.63	10.25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
OP46429-MS	1G58372.D	11/01/10	21:32	1.96	2.28	8.62	10.25
OP46429-MSD	1G58373.D	11/01/10	21:47	1.96	2.29	8.62	10.25
OP46352-MB1	1G58374.D	11/01/10	22:02	1.96	2.28	8.63	10.25
OP46352-BS1	1G58375.D	11/01/10	22:17	1.96	2.28	8.63	10.25
OP46352-MS	1G58376.D	11/01/10	22:32	1.96	2.29	8.62	10.25
OP46352-MSD	1G58377.D	11/01/10	22:47	1.96	2.28	8.62	10.25
JA58750-1	1G58378.D	11/01/10	23:02	1.96	2.28	8.62	10.25
ZZZZZZ	1G58378.D	11/01/10	23:02	1.96	2.28	8.62	10.25
JA58750-2	1G58379.D	11/01/10	23:18	1.96	2.28	8.62	10.25
ZZZZZZ	1G58379.D	11/01/10	23:18	1.96	2.28	8.62	10.25
JA58750-3	1G58380.D	11/01/10	23:33	1.96	2.28	8.62	10.25
ZZZZZZ	1G58380.D	11/01/10	23:33	1.96	2.28	8.62	10.25

### Surrogate Compounds

S1 = Tetrachloro-m-xylene

S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.6

9



## GC Surrogate Retention Time Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std: G1G2128-CC2127

Injection Date: 11/01/10

Lab File ID: 1G58381.D

Injection Time: 23:48

Instrument ID: GC1G

Method: SW846 8081A

	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
Check Std	1.96	2.28	8.63	10.25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
JA58750-4	1G58383.D	11/02/10	00:18	1.96	2.28	8.62	10.25
ZZZZZZ	1G58383.D	11/02/10	00:18	1.96	2.28	8.62	10.25
JA58750-5	1G58384.D	11/02/10	00:33	1.96	2.28	8.62	10.25
ZZZZZZ	1G58384.D	11/02/10	00:33	1.96	2.28	8.62	10.25
JA58750-6	1G58385.D	11/02/10	00:48	1.96	2.28	8.62	10.25
ZZZZZZ	1G58385.D	11/02/10	00:48	1.96	2.28	8.62	10.25
JA58750-8	1G58386.D	11/02/10	01:03	1.96	2.28	8.62	10.25
ZZZZZZ	1G58386.D	11/02/10	01:03	1.96	2.28	8.62	10.25
JA58750-9	1G58387.D	11/02/10	01:18	1.96	2.28	8.62	10.25
ZZZZZZ	1G58387.D	11/02/10	01:18	1.96	2.28	8.62	10.25
JA58750-10	1G58388.D	11/02/10	01:34	1.96	2.28	8.62	10.24
ZZZZZZ	1G58388.D	11/02/10	01:34	1.96	2.28	8.62	10.24
JA58750-11	1G58389.D	11/02/10	01:49	1.96	2.28	8.62	10.25
ZZZZZZ	1G58389.D	11/02/10	01:49	1.96	2.28	8.62	10.25
JA58750-12	1G58390.D	11/02/10	02:04	1.96	2.28	8.62	10.25
ZZZZZZ	1G58390.D	11/02/10	02:04	1.96	2.28	8.62	10.25
JA58750-13	1G58391.D	11/02/10	02:19	1.96	2.28	8.62	10.25
ZZZZZZ	1G58391.D	11/02/10	02:19	1.96	2.28	8.62	10.25

### Surrogate Compounds

S1 = Tetrachloro-m-xylene

S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.7

9

## GC Surrogate Retention Time Summary

Page 1 of 1

**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

**Check Std:** G1G2128-CC2127

**Injection Date:** 11/02/10

**Lab File ID:** 1G58392.D

**Injection Time:** 02:34

**Instrument ID:** GC1G

**Method:** SW846 8081A

	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
Check Std	1.96	2.28	8.63	10.25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
JA58750-14	1G58394.D	11/02/10	03:04	1.96	2.28	8.62	10.24
ZZZZZZ	1G58394.D	11/02/10	03:04	1.96	2.28	8.62	10.24
JA58750-15	1G58395.D	11/02/10	03:19	1.96	2.28	8.62	10.24
ZZZZZZ	1G58395.D	11/02/10	03:19	1.96	2.28	8.62	10.24
JA58750-16	1G58396.D	11/02/10	03:35	1.96	2.28	8.62	10.24
ZZZZZZ	1G58396.D	11/02/10	03:35	1.96	2.28	8.62	10.24
JA58750-17	1G58397.D	11/02/10	03:50	1.96	2.28	8.62	10.24
ZZZZZZ	1G58397.D	11/02/10	03:50	1.96	2.28	8.62	10.24
JA58750-18	1G58398.D	11/02/10	04:05	1.97	2.29	8.62	10.24
ZZZZZZ	1G58398.D	11/02/10	04:05	1.97	2.29	8.62	10.24
JA58750-7	1G58399.D	11/02/10	04:20	1.97	2.29	8.62	10.24
ZZZZZZ	1G58399.D	11/02/10	04:20	1.97	2.29	8.62	10.24
G1G2128-ECC2127	1G58400.D	11/02/10	04:50	1.96	2.28	8.63	10.25

### Surrogate Compounds

S1 = Tetrachloro-m-xylene

S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.8

9

# GC Surrogate Retention Time Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std: G3G1851-CC1826

Injection Date: 10/26/10

Lab File ID: 3G50277.D

Injection Time: 09:56

Instrument ID: GC3G

Method: SW846 8082

	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
Check Std	2.30	2.16	9.01	9.22

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
OP46323-MB1	3G50278.D	10/26/10	10:18	2.30	2.15	9.01	9.22
OP46323-BS1	3G50279.D	10/26/10	10:33	2.30	2.15	9.01	0.00
ZZZZZZ	3G50280.D	10/26/10	10:48	0.00	0.00	0.00	0.00
ZZZZZZ	3G50281.D	10/26/10	11:03	0.00	0.00	0.00	0.00
ZZZZZZ	3G50282.D	10/26/10	11:18	0.00	0.00	0.00	0.00
ZZZZZZ	3G50284.D	10/26/10	11:31	0.00	0.00	0.00	0.00
ZZZZZZ	3G50285.D	10/26/10	11:46	0.00	0.00	0.00	0.00
ZZZZZZ	3G50286.D	10/26/10	12:01	0.00	0.00	0.00	0.00
ZZZZZZ	3G50287.D	10/26/10	12:16	2.30	2.16	9.02	9.23

## Surrogate Compounds

S1 = Tetrachloro-m-xylene

S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.9  
6

## GC Surrogate Retention Time Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	G3G1851-CC1826	Injection Date:	10/26/10
Lab File ID:	3G50288.D	Injection Time:	13:01
Instrument ID:	GC3G	Method:	SW846 8082

	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
Check Std	2.30	2.15	9.02	9.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
ZZZZZZ	3G50290.D	10/26/10	13:29	2.30	2.16	9.02	9.23
OP46323-MS	3G50291.D	10/26/10	13:42	2.30	2.15	9.02	9.23
OP46323-MSD	3G50292.D	10/26/10	13:56	2.30	2.15	9.02	9.23
JA59417-33	3G50293.D	10/26/10	14:11	2.29	2.15	9.02	9.23
ZZZZZZ	3G50294.D	10/26/10	14:26	2.30	2.15	9.02	9.23
ZZZZZZ	3G50295.D	10/26/10	14:40	2.30	2.15	9.02	9.23
ZZZZZZ	3G50296.D	10/26/10	14:53	2.30	2.15	9.02	9.23
ZZZZZZ	3G50297.D	10/26/10	15:15	2.30	2.15	9.02	9.23
ZZZZZZ	3G50298.D	10/26/10	15:38	0.00	0.00	0.00	0.00

### Surrogate Compounds

S1 = Tetrachloro-m-xylene

S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.10

②

# GC Surrogate Retention Time Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std: G3G1851-CC1826

Injection Date: 10/26/10

Lab File ID: 3G50299.D

Injection Time: 16:39

Instrument ID: GC3G

Method: SW846 8082

	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
Check Std	2.30	2.16	9.02	9.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
OP46343-MB1	3G50301.D	10/26/10	17:09	2.30	2.16	9.02	9.23
OP46343-BS1	3G50302.D	10/26/10	17:24	2.30	2.16	9.02	9.23
ZZZZZZ	3G50303.D	10/26/10	17:39	2.30	2.16	9.01	9.23
ZZZZZZ	3G50304.D	10/26/10	17:54	2.31	2.17	9.02	9.23
ZZZZZZ	3G50305.D	10/26/10	18:09	2.31	2.16	9.02	9.23
ZZZZZZ	3G50306.D	10/26/10	18:25	2.30	2.16	9.02	9.23
ZZZZZZ	3G50307.D	10/26/10	18:40	2.30	2.16	9.01	9.23
ZZZZZZ	3G50308.D	10/26/10	18:55	2.30	2.16	9.01	9.23
JA58750-5	3G50309.D	10/26/10	19:10	2.29	2.15	9.02	9.23

## Surrogate Compounds

S1 = Tetrachloro-m-xylene

S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.11  
9

# GC Surrogate Retention Time Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std: G3G1851-CC1826

Injection Date: 10/26/10

Lab File ID: 3G50310.D

Injection Time: 20:10

Instrument ID: GC3G

Method: SW846 8082

	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
Check Std	2.30	2.16	9.02	9.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
OP46353-MB1	3G50312.D	10/26/10	20:40	2.30	2.16	9.02	9.23
OP46353-BS1	3G50313.D	10/26/10	20:55	2.30	2.16	9.02	9.23
OP46353-MS	3G50314.D	10/26/10	21:11	2.30	2.16	9.01	9.23
OP46353-MSD	3G50315.D	10/26/10	21:26	2.30	2.16	9.02	9.23
JA58750-11	3G50316.D	10/26/10	21:41	2.29	2.15	9.02	9.23
JA58750-1	3G50317.D	10/26/10	21:56	2.30	2.15	9.02	9.23
JA58750-3	3G50319.D	10/26/10	22:26	2.30	2.16	9.02	9.23
JA58750-4	3G50320.D	10/26/10	22:41	2.30	2.16	9.02	9.23

## Surrogate Compounds

S1 = Tetrachloro-m-xylene

S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.12

9

# GC Surrogate Retention Time Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std: G3G1851-CC1826

Injection Date: 10/26/10

Lab File ID: 3G50321.D

Injection Time: 23:11

Instrument ID: GC3G

Method: SW846 8082

	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
Check Std	2.30	2.16	9.01	9.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
JA58750-6	3G50323.D	10/26/10	23:57	2.30	2.16	9.02	9.23
JA58750-8	3G50324.D	10/27/10	00:12	2.30	2.16	9.01	9.22
JA58750-9	3G50325.D	10/27/10	00:27	2.30	2.16	9.02	9.23
JA58750-10	3G50326.D	10/27/10	00:42	2.30	2.15	9.01	9.22
JA58750-16	3G50327.D	10/27/10	00:57	2.30	2.15	9.01	9.22
JA58750-12	3G50328.D	10/27/10	01:12	2.30	2.15	9.01	9.23
JA58750-13	3G50329.D	10/27/10	01:27	2.30	2.16	9.02	9.23
JA58750-14	3G50330.D	10/27/10	01:42	2.30	2.16	9.01	9.22
JA58750-15	3G50331.D	10/27/10	01:57	2.30	2.16	9.02	9.22
G3G1851-ECC1826	3G50332.D	10/27/10	02:43	2.30	2.15	9.02	9.22

## Surrogate Compounds

S1 = Tetrachloro-m-xylene

S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.13

9

## GC Surrogate Retention Time Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	G3G1852-CC1826	Injection Date:	10/27/10
Lab File ID:	3G50345.D	Injection Time:	11:30
Instrument ID:	GC3G	Method:	SW846 8082

	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
Check Std	2.29	2.15	9.02	9.22

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
ZZZZZZ	3G50347.D	10/27/10	12:05	2.29	2.15	9.01	9.22
ZZZZZZ	3G50348.D	10/27/10	12:20	2.29	2.15	9.01	9.22
ZZZZZZ	3G50349.D	10/27/10	12:35	2.29	2.15	9.01	9.22
ZZZZZZ	3G50350.D	10/27/10	12:50	2.29	2.15	9.01	9.22
ZZZZZZ	3G50351.D	10/27/10	13:05	2.29	2.15	9.01	9.22
ZZZZZZ	3G50352.D	10/27/10	13:20	0.00	0.00	0.00	0.00
ZZZZZZ	3G50353.D	10/27/10	14:13	2.29	2.14	9.02	9.22
JA58750-7	3G50355.D	10/27/10	14:43	2.30	2.15	9.02	9.23

### Surrogate Compounds

S1 = Tetrachloro-m-xylene

S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.14  
9



# GC Surrogate Retention Time Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	G3G1852-CC1826	Injection Date:	10/27/10
Lab File ID:	3G50376.D	Injection Time:	22:19
Instrument ID:	GC3G	Method:	SW846 8082

	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
Check Std	2.30	2.15	9.02	9.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
ZZZZZZ	3G50378.D	10/27/10	22:49	2.30	2.15	9.02	9.23
ZZZZZZ	3G50379.D	10/27/10	23:05	2.30	2.15	9.02	9.23
ZZZZZZ	3G50380.D	10/27/10	23:20	2.29	2.15	9.02	9.22
ZZZZZZ	3G50381.D	10/27/10	23:35	2.30	2.15	9.02	9.22
ZZZZZZ	3G50382.D	10/27/10	23:50	2.30	2.15	9.02	9.23
ZZZZZZ	3G50383.D	10/28/10	00:05	2.30	2.15	9.02	9.23
ZZZZZZ	3G50384.D	10/28/10	00:20	2.30	2.15	9.02	9.23
JA58750-17	3G50385.D	10/28/10	00:35	2.30	2.15	9.02	9.23
JA58750-18	3G50386.D	10/28/10	00:50	2.30	2.15	9.02	9.22
G3G1852-ECC1826	3G50387.D	10/28/10	01:35	2.30	2.15	9.02	9.23

## Surrogate Compounds

S1 = Tetrachloro-m-xylene

S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.15  
9

## GC Surrogate Retention Time Summary

Page 1 of 1

**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

<b>Check Std:</b>	GOA2391-CC2389	<b>Injection Date:</b>	11/03/10
<b>Lab File ID:</b>	OA68380.D	<b>Injection Time:</b>	15:12
<b>Instrument ID:</b>	GCOA	<b>Method:</b>	SW846 8082

	<b>S1<sup>a</sup></b> <b>RT</b>	<b>S1<sup>b</sup></b> <b>RT</b>	<b>S2<sup>a</sup></b> <b>RT</b>	<b>S2<sup>b</sup></b> <b>RT</b>
Check Std	2.45	2.42	13.18	13.04

<b>Lab</b> <b>Sample ID</b>	<b>Lab</b> <b>File ID</b>	<b>Date</b> <b>Analyzed</b>	<b>Time</b> <b>Analyzed</b>	<b>S1<sup>a</sup></b> <b>RT</b>	<b>S1<sup>b</sup></b> <b>RT</b>	<b>S2<sup>a</sup></b> <b>RT</b>	<b>S2<sup>b</sup></b> <b>RT</b>
JA58750-2	OA68390.D	11/03/10	18:31	2.45	2.42	13.18	13.04

### Surrogate Compounds

**S1** = Tetrachloro-m-xylene

**S2** = Decachlorobiphenyl

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.16  
**9**

## GC Surrogate Retention Time Summary

Page 1 of 1

**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

**Check Std:** GOA2391-CC2389

**Injection Date:** 11/03/10

**Lab File ID:** OA68391.D

**Injection Time:** 19:30

**Instrument ID:** GCOA

**Method:** SW846 8082

	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
Check Std	2.45	2.43	13.18	13.04

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
OP46406-LB1	OA68393.D	11/03/10	20:09	2.45	2.43	13.18	13.04
OP46323-MB2	OA68394.D	11/03/10	20:48	2.45	2.43	13.18	13.04
OP46323-BS2	OA68395.D	11/03/10	21:07	2.45	2.43	13.18	13.04
OP46406-LS1	OA68396.D	11/03/10	21:27	2.45	2.43	13.18	13.04

### Surrogate Compounds

S1 = Tetrachloro-m-xylene

S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.17

9

## GC Surrogate Retention Time Summary

Page 1 of 1

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	GXX3909-CC3901	Injection Date:	11/03/10
Lab File ID:	XX100602.D	Injection Time:	09:17
Instrument ID:	GCXX	Method:	SW846 8082

	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
Check Std	2.21	2.87	9.64	11.60

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 <sup>a</sup> RT	S1 <sup>b</sup> RT	S2 <sup>a</sup> RT	S2 <sup>b</sup> RT
ZZZZZZ	XX100604.D	11/03/10	10:08	2.20	2.87	9.64	11.60
ZZZZZZ	XX100605.D	11/03/10	10:44	2.21	2.87	9.64	11.60
ZZZZZZ	XX100606.D	11/03/10	11:06	2.20	2.87	9.63	11.60
ZZZZZZ	XX100607.D	11/03/10	12:03	2.20	2.87	9.64	11.60
OP46323-MB2	XX100608.D	11/03/10	12:25	2.20	2.87	9.64	11.60
OP46323-BS2	XX100609.D	11/03/10	12:47	2.20	2.87	9.63	11.60
ZZZZZZ	XX100610.D	11/03/10	13:01	2.20	2.87	9.63	11.60
ZZZZZZ	XX100611.D	11/03/10	13:23	2.20	2.88	9.63	11.59
ZZZZZZ	XX100612.D	11/03/10	13:45	2.21	2.88	9.63	11.59

### Surrogate Compounds

S1 = Tetrachloro-m-xylene

S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1

(b) Retention time from GC signal #2

9.7.18



## Initial Calibration Summary

Page 1 of 2

Job Number: JA58750

Sample: G1G2127-ICC2127

Account: ENSRMAA AECOM, INC.

Lab FileID: 1G58362.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

### Response Factor Report GC1G

Method : C:\MSDCHEM\1\METHODS\1PST2127.M (Chemstation Integrator)  
Title : PEST/PCB  
Last Update : Tue Nov 02 09:26:23 2010  
Response via : Initial Calibration

#### Calibration Files

2 =1G58359.D 5 =1G58360.D 10 =1G58361.D 25 =1G58362.D  
50 =1G58363.D 100 =1G58364.D 1 =1G58358.D

Compound	2	5	10	25	50	100	1	Avg	%RSD
1)SABTetrachloro-m-xyl	2.152	2.037	2.230	2.054	2.042	2.449	2.095	2.151 E7	6.91
2) Hexachlorobenzene	4.316	3.925	4.148	3.825	3.608	4.414	4.607	4.120 E7	8.58
3)A alpha-BHC	4.322	4.090	4.715	4.526	4.541	5.845	4.137	4.597 E7	12.95
4)MAGamma-BHC	3.862	3.669	4.223	3.984	3.970	5.054	4.192	4.136 E7	10.80
5)MAHeptachlor	4.055	3.836	4.479	4.144	4.141	5.270	3.958	4.269 E7	11.35
6)B beta-BHC	1.769	1.633	1.838	1.675	1.622	1.956	1.828	1.760 E7	7.01
7)B delta-BHC	3.607	3.415	3.975	3.774	3.853	4.940	3.571	3.876 E7	13.03
8)MBAldrin	3.879	3.657	4.303	3.996	3.961	5.004	3.785	4.084 E7	11.09
9)B Heptachlor Epoxid	3.758	3.496	4.021	3.716	3.717	4.639	3.708	3.865 E7	9.68
10)B gamma-Chlordane	3.705	3.417	3.956	3.677	3.715	4.667	3.614	3.821 E7	10.60
11)B alpha-Chlordane	3.596	3.371	3.899	3.594	3.568	4.482	3.560	3.724 E7	9.89
12)A Endosulfan I	3.828	3.477	3.999	3.662	3.675	4.566	4.008	3.888 E7	9.13
13)B 4,4'-DDE	3.383	3.168	3.741	3.493	3.524	4.456	3.983	3.678 E7	11.68
14)MADieldrin	3.902	3.587	4.217	3.910	3.923	4.942	3.760	4.034 E7	10.98
15)MAEndrin	3.467	3.327	3.899	3.591	3.617	4.462	4.136	3.786 E7	10.63
16)A 4,4'-DDD	2.694	2.536	2.921	2.803	2.968	3.594	2.795	2.902 E7	11.62
17)B Endosulfan II	3.327	3.066	3.586	3.281	3.418	4.078	3.325	3.440 E7	9.34
18)MA4,4'-DDT	2.641	2.395	2.853	2.779	2.956	3.529	2.549	2.815 E7	13.06
19)B Endrin Aldehyde	2.654	2.594	2.898	2.710	2.721	3.370	3.364	2.902 E7	11.42
20)B Endosulfan Sulfat	2.793	2.552	2.839	2.701	2.782	3.338	3.076	2.869 E7	9.07
21)A Methoxychlor	1.419	1.294	1.447	1.346	1.352	1.555	1.311	1.389 E7	6.58
22) Mirex	2.779	2.538	2.675	2.485	2.376	2.804	3.220	2.697 E7	10.33
23)B Endrin Ketone	3.793	3.410	3.879	3.618	3.672	4.477	3.654	3.786 E7	8.93
24)L8Toxaphene{A}					4.632			4.632 E5	0.00
25)L8Toxaphene{B}					9.412			9.412 E5	0.00
26)L8Toxaphene{C}					1.261			1.261 E6	0.00
27)L8Toxaphene{D}					8.427			8.427 E5	0.00
28)L8Toxaphene{E}					6.210			6.210 E5	0.00
29) Chlordane {A}					1.752			1.752 E6	0.00
30) Chlordane {B}					1.267			1.267 E6	0.00
31) Chlordane {C}					4.422			4.422 E6	0.00
32) Chlordane {D}					7.082			7.082 E6	0.00
33) Chlordane {E}					1.065			1.065 E6	0.00
34)SADecachlorobipheny	3.454	3.180	3.306	3.006	3.130	3.674	3.588	3.334 E7	7.43

#### Signal #2

1)SABTetrachloro-m-xyl	6.351	6.195	6.789	6.458	6.430	8.011	5.982	6.602 E6	10.13
2) Hexachlorobenzene	8.686	7.840	8.347	7.678	7.463	9.082	8.405	8.215 E6	7.07
3)A alpha-BHC	0.774	0.765	0.902	0.911	0.954	1.230	0.894	0.919 E7	16.86
4)MAGamma-BHC	0.740	0.715	0.838	0.832	0.862	1.097	0.840	0.846 E7	14.64
5)MAHeptachlor	0.742	0.721	0.825	0.806	0.827	1.054	0.758	0.819 E7	13.61
6)B beta-BHC	3.800	3.697	4.053	3.754	3.696	4.570	3.894	3.923 E6	7.94
7)B delta-BHC	6.475	6.191	7.299	7.352	7.743	9.953	7.625	7.520 E6	16.21
8)MBAldrin	0.690	0.652	0.763	0.760	0.791	1.010	0.823	0.784 E7	14.72
9)B Heptachlor Epoxid	6.802	6.529	7.406	7.186	7.338	9.333	6.616	7.316 E6	13.05
10)B gamma-Chlordane	6.916	6.549	7.398	7.179	7.319	9.321	8.004	7.527 E6	12.08

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# Initial Calibration Summary

Page 2 of 2

Job Number: JA58750

Sample: G1G2127-ICC2127

Account: ENSRMAA AECOM, INC.

Lab FileID: 1G58362.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

11)B alpha-Chlordane	6.715	6.450	7.228	6.924	7.012	8.873	6.688	7.127	E6	11.37
12)A Endosulfan I	6.284	6.009	6.772	6.560	6.688	8.507	6.065	6.698	E6	12.70
13)B 4,4'-DDE	5.810	5.690	6.621	6.642	6.802	8.999	6.211	6.682	E6	16.57
14)MADieldrin	6.380	6.049	6.968	7.056	7.170	9.217	6.145	6.998	E6	15.40
15)MAEndrin	5.894	5.670	6.457	6.280	6.416	8.265	5.709	6.384	E6	13.95
16)A 4,4'-DDD	4.462	4.488	5.122	5.178	5.342	7.024	4.328	5.135	E6	18.02
17)B Endosulfan II	5.888	5.488	6.124	5.950	6.026	7.795	6.602	6.268	E6	11.97
18)MA4,4'-DDT	4.137	4.188	4.890	4.854	5.057	6.600	3.824	4.793	E6	19.20
19)B Endrin Aldehyde	4.906	4.592	4.968	4.705	4.822	6.152	5.638	5.112	E6	11.13
20)B Endosulfan Sulfat	4.880	4.518	5.067	4.781	4.826	6.107	5.343	5.075	E6	10.28
21)A Methoxychlor	2.589	2.427	2.699	2.531	2.496	3.050	3.205	2.714	E6	10.98
22) Mirex	5.357	4.876	5.079	4.500	4.307	5.157	5.089	4.909	E6	7.69
23)B Endrin Ketone	6.254	5.753	6.461	6.140	6.248	7.903	5.763	6.360	E6	11.46
24)L8Toxaphene{A}					1.286			1.286	E5	0.00
25)L8Toxaphene{B}					1.479			1.479	E5	0.00
26)L8Toxaphene{C}					2.535			2.535	E5	0.00
27)L8Toxaphene{D}					1.419			1.419	E5	0.00
28)L8Toxaphene{E}					9.723			9.723	E4	0.00
29) Chlordane {A}					3.660			3.660	E5	0.00
30) Chlordane {B}					2.638			2.638	E5	0.00
31) Chlordane {C}					8.477			8.477	E5	0.00
32) Chlordane {D}					1.404			1.404	E6	0.00
33) Chlordane {E}					2.055			2.055	E5	0.00
34)SADecachlorobipheny	4.924	4.619	4.920	4.416	4.242	5.096	5.088	4.758	E6	7.07

-----  
(#) = Out of Range

1PST2127.M

Tue Nov 02 09:27:00 2010

RPT1

9.8.1



**Initial Calibration Verification**

Page 1 of 2

**Job Number:** JA58750**Sample:** G1G2127-ICV2127**Account:** ENSRMAA AECOM, INC.**Lab FileID:** 1G58367.D**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1G2127\1G58367.D\ECD1A.CH Vial: 12  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2127\1G58367.D\ECD2B.CH  
 Acq On : 11-1-10 08:16:45 PM Operator: owenm  
 Sample : icv2127-25 Inst : GC1G  
 Misc : op46373,g1g2127,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\1PST2127.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Tue Nov 02 09:26:23 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT	Window
-----							
1 SAB Tetrachloro-m-xylene			-----NA-----				
2 Hexachlorobenzene			-----NA-----				
3 A alpha-BHC	45.966	44.065 E6	4.1	97	0.00	2.28-	2.34
4 MA gamma-BHC	41.362	39.772 E6	3.8	100	0.00	2.51-	2.57
5 MA Heptachlor	42.692	40.454 E6	5.2	98	0.00	2.91-	2.97
6 B beta-BHC	17.601	16.683 E6	5.2	100	0.00	2.57-	2.63
7 B delta-BHC	38.765	37.768 E6	2.6	100	0.00	2.72-	2.78
8 MB Aldrin	40.837	39.122 E6	4.2	98	0.00	3.18-	3.25
9 B Heptachlor Epoxide	38.650	36.772 E6	4.9	99	0.00	3.80-	3.87
10 B gamma-Chlordane	38.215	36.549 E6	4.4	99	0.00	3.95-	4.02
11 B alpha-Chlordane	37.243	35.537 E6	4.6	99	0.00	4.08-	4.19
12 A Endosulfan I	38.877	36.912 E6	5.1	101	0.00	4.25-	4.34
13 B 4,4'-DDE	36.784	34.372 E6	6.6	98	0.00	4.20-	4.27
14 MA Dieldrin	40.345	38.780 E6	3.9	99	0.00	4.56-	4.63
15 MA Endrin	37.855	36.306 E6	4.1	101	0.00	4.84-	4.94
16 A 4,4'-DDD	29.015	28.658 E6	1.2	102	0.00	4.95-	5.06
17 B Endosulfan II	34.402	33.481 E6	2.7	102	0.00	5.14-	5.25
18 MA 4,4'-DDT	28.145	26.739 E6	5.0	96	0.00	5.34-	5.44
19 B Endrin Aldehyde	29.015	26.889 E6	7.3	99	0.00	5.74-	5.84
20 B Endosulfan Sulfate	28.688	26.890 E6	6.3	100	0.00	6.40-	6.49
21 A Methoxychlor	13.892	13.193 E6	5.0	98	0.00	6.12-	6.19
22 Mirex			-----NA-----				
23 B Endrin Ketone	37.863	34.244 E6	9.6	95	0.00	6.82-	6.92
24 L8 Toxaphene{A}			-----NA-----				
25 L8 Toxaphene{B}			-----NA-----				
26 L8 Toxaphene{C}			-----NA-----				
27 L8 Toxaphene{D}			-----NA-----				
28 L8 Toxaphene{E}			-----NA-----				
29 Chlordane {A}			-----NA-----				
30 Chlordane {B}			-----NA-----				
31 Chlordane {C}			-----NA-----				
32 Chlordane {D}			-----NA-----				
33 Chlordane {E}			-----NA-----				
34 SA Decachlorobiphenyl			-----NA-----				

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 SAB Tetrachloro-m-xylene			-----NA-----				
2 Hexachlorobenzene			-----NA-----				
3 A alpha-BHC	9.187	9.177 E6	0.1	101	0.00	2.73-	2.79
4 MA gamma-BHC	8.462	8.461 E6	0.0	102	0.00	3.05-	3.11

9.8.2  
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# Initial Calibration Verification

Page 2 of 2

Job Number: JA58750

Sample: G1G2127-ICV2127

Account: ENSRMAA AECOM, INC.

Lab FileID: 1G58367.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

5	MA	Heptachlor	8.193	8.110 E6	1.0	101	0.00	3.54- 3.60
6	B	beta-BHC	3.923	3.898 E6	0.6	104	0.00	3.12- 3.18
7	B	delta-BHC	7.520	7.524 E6	-0.1	102	0.00	3.44- 3.50
8	MB	Aldrin	7.843	7.705 E6	1.8	101	0.00	3.91- 3.97
9	B	Heptachlor Epoxide	7.316	7.294 E6	0.3	101	0.00	4.62- 4.68
10	B	gamma-Chlordane	7.527	7.283 E6	3.2	101	0.00	4.87- 4.93
11	B	alpha-Chlordane	7.127	7.038 E6	1.2	102	0.00	5.07- 5.13
12	A	Endosulfan I	6.698	6.663 E6	0.5	102	0.00	5.15- 5.21
13	B	4,4'-DDE	6.682	6.751 E6	-1.0	102	0.00	5.32- 5.38
14	MA	Dieldrin	6.998	7.111 E6	-1.6	101	0.00	5.54- 5.60
15	MA	Endrin	6.384	6.520 E6	-2.1	104	0.00	5.99- 6.05
16	A	4,4'-DDD	5.135	5.214 E6	-1.5	101	0.00	6.19- 6.25
17	B	Endosulfan II	6.268	6.126 E6	2.3	103	0.00	6.32- 6.38
18	MA	4,4'-DDT	4.793	4.723 E6	1.5	97	0.00	6.69- 6.75
19	B	Endrin Aldehyde	5.112	4.747 E6	7.1	101	0.00	6.85- 6.91
20	B	Endosulfan Sulfate	5.075	4.849 E6	4.5	101	0.00	7.31- 7.37
21	A	Methoxychlor	2.714	2.558 E6	5.7	101	0.00	7.85- 7.91
22		Mirex		-----NA-----				
23	B	Endrin Ketone	6.360	5.926 E6	6.8	97	0.00	8.19- 8.25
24	L8	Toxaphene{A}		-----NA-----				
25	L8	Toxaphene{B}		-----NA-----				
26	L8	Toxaphene{C}		-----NA-----				
27	L8	Toxaphene{D}		-----NA-----				
28	L8	Toxaphene{E}		-----NA-----				
29		Chlordane {A}		-----NA-----				
30		Chlordane {B}		-----NA-----				
31		Chlordane {C}		-----NA-----				
32		Chlordane {D}		-----NA-----				
33		Chlordane {E}		-----NA-----				
34	SA	Decachlorobiphenyl		-----NA-----				

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

1G58362.D 1PST2127.M

Tue Nov 02 09:27:00 2010 RPT1

9.8.2

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## Continuing Calibration Summary

Page 1 of 2

Job Number: JA58750

Sample: G1G2128-CC2127

Account: ENSRMAA AECOM, INC.

Lab FileID: 1G58370.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1G2127\1G58370.D\ECD1A.CH Vial: 15  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2127\1G58370.D\ECD2B.CH  
 Acq On : 11-1-10 09:02:05 PM Operator: owenm  
 Sample : cc2127-10 Inst : GC1G  
 Misc : op46373,glg2128,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\1PST2127.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Tue Nov 02 09:26:23 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)	RT	Window
1 SAB Tetrachloro-m-xylene	21.514	22.623 E6	-5.2	101	0.00	1.93-	1.99
2 Hexachlorobenzene	41.204	40.900 E6	0.7	99	0.00	2.17-	2.23
3 A alpha-BHC	45.966	46.088 E6	-0.3	98	0.00	2.28-	2.34
4 MA gamma-BHC	41.362	40.760 E6	1.5	97	0.00	2.51-	2.57
5 MA Heptachlor	42.692	42.233 E6	1.1	94	0.00	2.90-	2.96
6 B beta-BHC	17.601	17.625 E6	-0.1	96	0.00	2.57-	2.63
7 B delta-BHC	38.765	36.444 E6	6.0	92	0.00	2.72-	2.78
8 MB Aldrin	40.837	41.120 E6	-0.7	96	0.00	3.18-	3.25
9 B Heptachlor Epoxide	38.650	38.839 E6	-0.5	97	0.00	3.80-	3.87
10 B gamma-Chlordane	38.215	38.593 E6	-1.0	98	0.00	3.94-	4.01
11 B alpha-Chlordane	37.243	37.600 E6	-1.0	96	0.00	4.08-	4.19
12 A Endosulfan I	38.877	39.454 E6	-1.5	99	0.00	4.25-	4.34
13 B 4,4'-DDE	36.784	35.437 E6	3.7	95	0.00	4.20-	4.27
14 MA Dieldrin	40.345	40.801 E6	-1.1	97	0.00	4.56-	4.63
15 MA Endrin	37.855	36.137 E6	4.5	93	0.00	4.84-	4.94
16 A 4,4'-DDD	29.015	29.542 E6	-1.8	101	0.00	4.95-	5.06
17 B Endosulfan II	34.402	35.407 E6	-2.9	99	0.00	5.14-	5.25
18 MA 4,4'-DDT	28.145	26.239 E6	6.8	92	0.00	5.34-	5.44
19 B Endrin Aldehyde	29.015	28.823 E6	0.7	99	0.00	5.74-	5.84
20 B Endosulfan Sulfate	28.688	26.548 E6	7.5	93	0.00	6.40-	6.49
21 A Methoxychlor	13.892	12.696 E6	8.6	88	0.00	6.12-	6.19
22 Mirex	26.966	27.006 E6	-0.1	101	0.00	6.22-	6.31
23 B Endrin Ketone	37.863	38.358 E6	-1.3	99	0.00	6.82-	6.92
24 L8 Toxaphene{A}		-----NA-----					
25 L8 Toxaphene{B}		-----NA-----					
26 L8 Toxaphene{C}		-----NA-----					
27 L8 Toxaphene{D}		-----NA-----					
28 L8 Toxaphene{E}		-----NA-----					
29 Chlordane {A}		-----NA-----					
30 Chlordane {B}		-----NA-----					
31 Chlordane {C}		-----NA-----					
32 Chlordane {D}		-----NA-----					
33 Chlordane {E}		-----NA-----					
34 SA Decachlorobiphenyl	33.340	35.913 E6	-7.7	109	0.00	8.59-	8.66

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 SAB Tetrachloro-m-xylene	6.602	6.831 E6	-3.5	101	0.00	2.25-	2.31
2 Hexachlorobenzene	8.215	8.298 E6	-1.0	99	0.00	2.62-	2.68
3 A alpha-BHC	9.187	8.826 E6	3.9	98	0.00	2.73-	2.79
4 MA gamma-BHC	8.462	8.218 E6	2.9	98	0.00	3.05-	3.11

# Continuing Calibration Summary

Page 2 of 2

Job Number: JA58750

Sample: G1G2128-CC2127

Account: ENSRMAA AECOM, INC.

Lab FileID: 1G58370.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

5	MA	Heptachlor	8.193	7.883	E6	3.8	95	0.00	3.53- 3.59
6	B	beta-BHC	3.923	3.936	E6	-0.3	97	0.00	3.12- 3.18
7	B	delta-BHC	7.520	6.729	E6	10.5	92	0.00	3.43- 3.49
8	MB	Aldrin	7.843	7.513	E6	4.2	98	0.00	3.91- 3.97
9	B	Heptachlor Epoxide	7.316	7.292	E6	0.3	98	0.00	4.62- 4.68
10	B	gamma-Chlordane	7.527	7.401	E6	1.7	100	0.00	4.87- 4.93
11	B	alpha-Chlordane	7.127	7.143	E6	-0.2	99	0.00	5.07- 5.13
12	A	Endosulfan I	6.698	6.694	E6	0.1	99	0.00	5.15- 5.21
13	B	4,4'-DDE	6.682	6.543	E6	2.1	99	0.00	5.31- 5.37
14	MA	Dieldrin	6.998	7.065	E6	-1.0	101	0.00	5.54- 5.60
15	MA	Endrin	6.384	6.065	E6	5.0	94	0.00	5.99- 6.05
16	A	4,4'-DDD	5.135	5.162	E6	-0.5	101	0.00	6.19- 6.25
17	B	Endosulfan II	6.268	6.148	E6	1.9	100	0.00	6.32- 6.38
18	MA	4,4'-DDT	4.793	4.482	E6	6.5	92	0.00	6.69- 6.75
19	B	Endrin Aldehyde	5.112	5.090	E6	0.4	102	0.00	6.85- 6.91
20	B	Endosulfan Sulfate	5.075	4.690	E6	7.6	93	0.00	7.31- 7.37
21	A	Methoxychlor	2.714	2.521	E6	7.1	93	0.00	7.85- 7.91
22		Mirex	4.909	5.094	E6	-3.8	100	0.00	8.13- 8.19
23	B	Endrin Ketone	6.360	6.366	E6	-0.1	99	0.00	8.19- 8.25
24	L8	Toxaphene{A}				-----NA-----			
25	L8	Toxaphene{B}				-----NA-----			
26	L8	Toxaphene{C}				-----NA-----			
27	L8	Toxaphene{D}				-----NA-----			
28	L8	Toxaphene{E}				-----NA-----			
29		Chlordane {A}				-----NA-----			
30		Chlordane {B}				-----NA-----			
31		Chlordane {C}				-----NA-----			
32		Chlordane {D}				-----NA-----			
33		Chlordane {E}				-----NA-----			
34	SA	Decachlorobiphenyl	4.758	4.824	E6	-1.4	98	0.00	10.22-10.28

(#) = Out of Range

1G58361.D 1PST2127.M

SPCC's out = 0 CCC's out = 0

Tue Nov 02 09:29:06 2010 RPT1

9.8.3

## Continuing Calibration Summary

Page 1 of 2

Job Number: JA58750

Sample: G1G2128-CC2127

Account: ENSRMAA AECOM, INC.

Lab FileID: 1G58381.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1G2127\1G58381.D\ECD1A.CH Vial: 26  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2127\1G58381.D\ECD2B.CH  
 Acq On : 01 Nov 2010 11:48 pm Operator: owenm  
 Sample : cc2127-25 Inst : GC1G  
 Misc : op46352,glg2128,17.1,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\1PST2127.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Tue Nov 02 09:26:23 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT	Window
1 SAB Tetrachloro-m-xylene	21.514	21.256 E6	1.2	103	0.00	1.93-	1.99
2 Hexachlorobenzene	41.204	38.875 E6	5.7	102	0.00	2.18-	2.24
3 A alpha-BHC	45.966	46.221 E6	-0.6	102	0.00	2.28-	2.34
4 MA gamma-BHC	41.362	40.373 E6	2.4	101	0.00	2.51-	2.57
5 MA Heptachlor	42.692	41.502 E6	2.8	100	0.00	2.91-	2.97
6 B beta-BHC	17.601	16.944 E6	3.7	101	0.00	2.57-	2.63
7 B delta-BHC	38.765	37.391 E6	3.5	99	0.00	2.72-	2.78
8 MB Aldrin	40.837	39.837 E6	2.4	100	0.00	3.18-	3.25
9 B Heptachlor Epoxide	38.650	36.927 E6	4.5	99	0.00	3.80-	3.87
10 B gamma-Chlordane	38.215	36.711 E6	3.9	100	0.00	3.94-	4.01
11 B alpha-Chlordane	37.243	35.705 E6	4.1	99	0.00	4.08-	4.19
12 A Endosulfan I	38.877	37.461 E6	3.6	102	0.00	4.25-	4.34
13 B 4,4'-DDE	36.784	34.207 E6	7.0	98	0.00	4.20-	4.27
14 MA Dieldrin	40.345	39.131 E6	3.0	100	0.00	4.56-	4.63
15 MA Endrin	37.855	33.318 E6	12.0	93	0.00	4.84-	4.94
16 A 4,4'-DDD	29.015	27.380 E6	5.6	98	0.00	4.95-	5.06
17 B Endosulfan II	34.402	32.480 E6	5.6	99	0.00	5.14-	5.25
18 MA 4,4'-DDT	28.145	26.470 E6	6.0	95	0.00	5.34-	5.44
19 B Endrin Aldehyde	29.015	27.939 E6	3.7	103	0.00	5.74-	5.84
20 B Endosulfan Sulfate	28.688	26.208 E6	8.6	97	0.00	6.40-	6.49
21 A Methoxychlor	13.892	12.100 E6	12.9	90	0.00	6.12-	6.19
22 Mirex	26.966	25.446 E6	5.6	102	0.00	6.22-	6.31
23 B Endrin Ketone	37.863	35.628 E6	5.9	98	0.00	6.82-	6.92
24 L8 Toxaphene{A}		-----NA-----					
25 L8 Toxaphene{B}		-----NA-----					
26 L8 Toxaphene{C}		-----NA-----					
27 L8 Toxaphene{D}		-----NA-----					
28 L8 Toxaphene{E}		-----NA-----					
29 Chlordane {A}		-----NA-----					
30 Chlordane {B}		-----NA-----					
31 Chlordane {C}		-----NA-----					
32 Chlordane {D}		-----NA-----					
33 Chlordane {E}		-----NA-----					
34 SA Decachlorobiphenyl	33.340	36.922 E6	-10.7	123	0.00	8.59-	8.66

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 SAB Tetrachloro-m-xylene	6.602	6.860 E6	-3.9	106	0.00	2.25-	2.31
2 Hexachlorobenzene	8.215	8.047 E6	2.0	105	0.00	2.62-	2.68
3 A alpha-BHC	9.187	9.635 E6	-4.9	106	0.00	2.73-	2.79
4 MA gamma-BHC	8.462	8.772 E6	-3.7	105	0.00	3.06-	3.12

9.8.4  
9

# Continuing Calibration Summary

Page 2 of 2

Job Number: JA58750

Sample: G1G2128-CC2127

Account: ENSRMAA AECOM, INC.

Lab FileID: 1G58381.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

5	MA	Heptachlor	8.193	8.346	E6	-1.9	104	0.00	3.53-	3.59
6	B	beta-BHC	3.923	3.884	E6	1.0	103	0.00	3.12-	3.18
7	B	delta-BHC	7.520	7.403	E6	1.6	101	0.00	3.44-	3.50
8	MB	Aldrin	7.843	8.081	E6	-3.0	106	0.00	3.91-	3.97
9	B	Heptachlor Epoxide	7.316	7.691	E6	-5.1	107	0.00	4.62-	4.68
10	B	gamma-Chlordane	7.527	7.736	E6	-2.8	108	0.00	4.87-	4.93
11	B	alpha-Chlordane	7.127	7.457	E6	-4.6	108	0.00	5.07-	5.13
12	A	Endosulfan I	6.698	7.028	E6	-4.9	107	0.00	5.15-	5.21
13	B	4,4'-DDE	6.682	7.114	E6	-6.5	107	0.00	5.31-	5.37
14	MA	Dieldrin	6.998	7.434	E6	-6.2	105	0.00	5.54-	5.60
15	MA	Endrin	6.384	6.319	E6	1.0	101	0.00	5.99-	6.05
16	A	4,4'-DDD	5.135	5.437	E6	-5.9	105	0.00	6.19-	6.25
17	B	Endosulfan II	6.268	6.456	E6	-3.0	109	0.00	6.32-	6.38
18	MA	4,4'-DDT	4.793	5.042	E6	-5.2	104	0.00	6.69-	6.75
19	B	Endrin Aldehyde	5.112	5.203	E6	-1.8	111	0.00	6.85-	6.91
20	B	Endosulfan Sulfate	5.075	4.850	E6	4.4	101	0.00	7.31-	7.37
21	A	Methoxychlor	2.714	2.582	E6	4.9	102	0.00	7.85-	7.91
22		Mirex	4.909	4.920	E6	-0.2	109	0.00	8.13-	8.19
23	B	Endrin Ketone	6.360	6.653	E6	-4.6	108	0.00	8.19-	8.25
24	L8	Toxaphene{A}				-----	NA	-----		
25	L8	Toxaphene{B}				-----	NA	-----		
26	L8	Toxaphene{C}				-----	NA	-----		
27	L8	Toxaphene{D}				-----	NA	-----		
28	L8	Toxaphene{E}				-----	NA	-----		
29		Chlordane {A}				-----	NA	-----		
30		Chlordane {B}				-----	NA	-----		
31		Chlordane {C}				-----	NA	-----		
32		Chlordane {D}				-----	NA	-----		
33		Chlordane {E}				-----	NA	-----		
34	SA	Decachlorobiphenyl	4.758	4.661	E6	2.0	106	0.00	10.22-	10.28

(#) = Out of Range

1G58362.D 1PST2127.M

SPCC's out = 0 CCC's out = 0

Tue Nov 02 10:09:31 2010 RPT1

9.8.4



## Continuing Calibration Summary

Page 1 of 2

Job Number: JA58750

Sample: G1G2128-CC2127

Account: ENSRMAA AECOM, INC.

Lab FileID: 1G58392.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1G2127\1G58392.D\ECD1A.CH Vial: 37  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2127\1G58392.D\ECD2B.CH  
 Acq On : 11-2-10 02:34:36 AM Operator: owenm  
 Sample : cc2127-10 Inst : GC1G  
 Misc : op46352,g1g2128,17.1,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\1PST2127.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Tue Nov 02 09:26:23 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT	Window
1 SAB Tetrachloro-m-xylene	21.514	23.175 E6	-7.7	104	0.00	1.93-	1.99
2 Hexachlorobenzene	41.204	41.946 E6	-1.8	101	0.00	2.17-	2.23
3 A alpha-BHC	45.966	47.567 E6	-3.5	101	0.00	2.28-	2.34
4 MA gamma-BHC	41.362	41.672 E6	-0.7	99	0.00	2.51-	2.57
5 MA Heptachlor	42.692	41.650 E6	2.4	93	0.00	2.90-	2.96
6 B beta-BHC	17.601	17.926 E6	-1.8	98	0.00	2.57-	2.63
7 B delta-BHC	38.765	39.159 E6	-1.0	99	0.00	2.72-	2.78
8 MB Aldrin	40.837	41.876 E6	-2.5	97	0.00	3.18-	3.25
9 B Heptachlor Epoxide	38.650	38.893 E6	-0.6	97	0.00	3.80-	3.87
10 B gamma-Chlordane	38.215	38.612 E6	-1.0	98	0.00	3.94-	4.01
11 B alpha-Chlordane	37.243	37.089 E6	0.4	95	0.00	4.08-	4.19
12 A Endosulfan I	38.877	40.134 E6	-3.2	100	0.00	4.25-	4.34
13 B 4,4'-DDE	36.784	35.171 E6	4.4	94	0.00	4.19-	4.26
14 MA Dieldrin	40.345	41.257 E6	-2.3	98	0.00	4.56-	4.63
15 MA Endrin	37.855	34.681 E6	8.4	89	0.00	4.84-	4.94
16 A 4,4'-DDD	29.015	27.746 E6	4.4	95	0.00	4.95-	5.06
17 B Endosulfan II	34.402	35.049 E6	-1.9	98	0.00	5.14-	5.25
18 MA 4,4'-DDT	28.145	24.264 E6	13.8	85	0.00	5.34-	5.44
19 B Endrin Aldehyde	29.015	29.910 E6	-3.1	103	0.00	5.74-	5.84
20 B Endosulfan Sulfate	28.688	27.397 E6	4.5	96	0.00	6.39-	6.49
21 A Methoxychlor	13.892	12.157 E6	12.5	84	0.00	6.12-	6.19
22 Mirex	26.966	27.796 E6	-3.1	104	0.00	6.22-	6.31
23 B Endrin Ketone	37.863	38.996 E6	-3.0	101	0.00	6.82-	6.92
24 L8 Toxaphene{A}		-----NA-----					
25 L8 Toxaphene{B}		-----NA-----					
26 L8 Toxaphene{C}		-----NA-----					
27 L8 Toxaphene{D}		-----NA-----					
28 L8 Toxaphene{E}		-----NA-----					
29 Chlordane {A}		-----NA-----					
30 Chlordane {B}		-----NA-----					
31 Chlordane {C}		-----NA-----					
32 Chlordane {D}		-----NA-----					
33 Chlordane {E}		-----NA-----					
34 SA Decachlorobiphenyl	33.340	36.644 E6	-9.9	111	0.00	8.59-	8.66

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 SAB Tetrachloro-m-xylene	6.602	7.094 E6	-7.5	104	0.00	2.25-	2.31
2 Hexachlorobenzene	8.215	8.594 E6	-4.6	103	0.00	2.62-	2.68
3 A alpha-BHC	9.187	9.269 E6	-0.9	103	0.00	2.72-	2.78
4 MA gamma-BHC	8.462	8.524 E6	-0.7	102	0.00	3.05-	3.11

# Continuing Calibration Summary

Page 2 of 2

Job Number: JA58750

Sample: G1G2128-CC2127

Account: ENSRMAA AECOM, INC.

Lab FileID: 1G58392.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

5	MA	Heptachlor	8.193	8.007	E6	2.3	97	0.00	3.53-	3.59
6	B	beta-BHC	3.923	4.088	E6	-4.2	101	0.00	3.12-	3.18
7	B	delta-BHC	7.520	7.233	E6	3.8	99	0.00	3.43-	3.49
8	MB	Aldrin	7.843	7.867	E6	-0.3	103	0.00	3.91-	3.97
9	B	Heptachlor Epoxide	7.316	7.690	E6	-5.1	104	0.00	4.61-	4.67
10	B	gamma-Chlordane	7.527	7.869	E6	-4.5	106	0.00	4.87-	4.93
11	B	alpha-Chlordane	7.127	7.619	E6	-6.9	105	0.00	5.07-	5.13
12	A	Endosulfan I	6.698	7.135	E6	-6.5	105	0.00	5.15-	5.21
13	B	4,4'-DDE	6.682	6.908	E6	-3.4	104	0.00	5.31-	5.37
14	MA	Dieldrin	6.998	7.539	E6	-7.7	108	0.00	5.54-	5.60
15	MA	Endrin	6.384	6.090	E6	4.6	94	0.00	5.99-	6.05
16	A	4,4'-DDD	5.135	5.395	E6	-5.1	105	0.00	6.19-	6.25
17	B	Endosulfan II	6.268	6.589	E6	-5.1	108	0.00	6.32-	6.38
18	MA	4,4'-DDT	4.793	4.695	E6	2.0	96	0.00	6.69-	6.75
19	B	Endrin Aldehyde	5.112	5.591	E6	-9.4	113	0.00	6.85-	6.91
20	B	Endosulfan Sulfate	5.075	5.025	E6	1.0	99	0.00	7.31-	7.37
21	A	Methoxychlor	2.714	2.615	E6	3.6	97	0.00	7.85-	7.91
22		Mirex	4.909	5.496	E6	-12.0	108	0.00	8.13-	8.19
23	B	Endrin Ketone	6.360	6.889	E6	-8.3	107	0.00	8.18-	8.25
24	L8	Toxaphene{A}				-----	NA	-----		
25	L8	Toxaphene{B}				-----	NA	-----		
26	L8	Toxaphene{C}				-----	NA	-----		
27	L8	Toxaphene{D}				-----	NA	-----		
28	L8	Toxaphene{E}				-----	NA	-----		
29		Chlordane {A}				-----	NA	-----		
30		Chlordane {B}				-----	NA	-----		
31		Chlordane {C}				-----	NA	-----		
32		Chlordane {D}				-----	NA	-----		
33		Chlordane {E}				-----	NA	-----		
34	SA	Decachlorobiphenyl	4.758	5.257	E6	-10.5	107	0.00	10.22-	10.28

(#) = Out of Range

1G58361.D 1PST2127.M

SPCC's out = 0 CCC's out = 0

Tue Nov 02 10:10:46 2010 RPT1

9.8.5  
6

## Continuing Calibration Summary

Page 1 of 2

Job Number: JA58750

Sample: G1G2128-ECC2127

Account: ENSRMAA AECOM, INC.

Lab FileID: 1G58400.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1G2127\1G58400.D\ECD1A.CH Vial: 45  
 Signal #2 : C:\MSDCHEM\1\DATA\1G2127\1G58400.D\ECD2B.CH  
 Acq On : 11-2-10 04:50:33 AM Operator: owenm  
 Sample : ecc2127-25 Inst : GC1G  
 Misc : op46352,glg2128,17.1,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\1PST2127.M (Chemstation Integrator)  
 Title : PEST/PCB  
 Last Update : Tue Nov 02 09:26:23 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT	Window
1 SAB Tetrachloro-m-xylene	21.514	20.835 E6	3.2	101	0.00	1.93-	1.99
2 Hexachlorobenzene	41.204	38.194 E6	7.3	100	0.00	2.18-	2.24
3 A alpha-BHC	45.966	45.721 E6	0.5	101	0.00	2.28-	2.34
4 MA gamma-BHC	41.362	40.016 E6	3.3	100	0.00	2.51-	2.57
5 MA Heptachlor	42.692	40.270 E6	5.7	97	0.00	2.91-	2.97
6 B beta-BHC	17.601	16.652 E6	5.4	99	0.00	2.57-	2.63
7 B delta-BHC	38.765	37.503 E6	3.3	99	0.00	2.72-	2.78
8 MB Aldrin	40.837	39.251 E6	3.9	98	0.00	3.18-	3.25
9 B Heptachlor Epoxide	38.650	36.423 E6	5.8	98	0.00	3.80-	3.87
10 B gamma-Chlordane	38.215	36.326 E6	4.9	99	0.00	3.94-	4.01
11 B alpha-Chlordane	37.243	34.492 E6	7.4	96	0.00	4.08-	4.19
12 A Endosulfan I	38.877	36.839 E6	5.2	101	0.00	4.25-	4.34
13 B 4,4'-DDE	36.784	33.478 E6	9.0	96	0.00	4.20-	4.27
14 MA Dieldrin	40.345	38.462 E6	4.7	98	0.00	4.56-	4.63
15 MA Endrin	37.855	30.782 E6	18.7#	86	0.00	4.84-	4.94
16 A 4,4'-DDD	29.015	28.498 E6	1.8	102	0.00	4.95-	5.06
17 B Endosulfan II	34.402	33.483 E6	2.7	102	0.00	5.14-	5.25
18 MA 4,4'-DDT	28.145	25.996 E6	7.6	94	0.00	5.34-	5.44
19 B Endrin Aldehyde	29.015	28.339 E6	2.3	105	0.00	5.74-	5.84
20 B Endosulfan Sulfate	28.688	26.181 E6	8.7	97	0.00	6.40-	6.49
21 A Methoxychlor	13.892	11.693 E6	15.8#	87	0.00	6.11-	6.18
22 Mirex	26.966	25.022 E6	7.2	101	0.00	6.22-	6.31
23 B Endrin Ketone	37.863	37.247 E6	1.6	103	0.00	6.82-	6.92
24 L8 Toxaphene{A}		-----NA-----					
25 L8 Toxaphene{B}		-----NA-----					
26 L8 Toxaphene{C}		-----NA-----					
27 L8 Toxaphene{D}		-----NA-----					
28 L8 Toxaphene{E}		-----NA-----					
29 Chlordane {A}		-----NA-----					
30 Chlordane {B}		-----NA-----					
31 Chlordane {C}		-----NA-----					
32 Chlordane {D}		-----NA-----					
33 Chlordane {E}		-----NA-----					
34 SA Decachlorobiphenyl	33.340	32.022 E6	4.0	107	0.00	8.59-	8.66

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 SAB Tetrachloro-m-xylene	6.602	6.712 E6	-1.7	104	0.00	2.25-	2.31
2 Hexachlorobenzene	8.215	7.871 E6	4.2	103	0.00	2.62-	2.68
3 A alpha-BHC	9.187	9.437 E6	-2.7	104	0.00	2.73-	2.79
4 MA gamma-BHC	8.462	8.564 E6	-1.2	103	0.00	3.05-	3.11

# Continuing Calibration Summary

Page 2 of 2

Job Number: JA58750

Sample: G1G2128-ECC2127

Account: ENSRMAA AECOM, INC.

Lab FileID: 1G58400.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

5	MA	Heptachlor	8.193	8.003	E6	2.3	99	0.00	3.53- 3.59
6	B	beta-BHC	3.923	3.805	E6	3.0	101	0.00	3.12- 3.18
7	B	delta-BHC	7.520	7.356	E6	2.2	100	0.00	3.43- 3.49
8	MB	Aldrin	7.843	7.892	E6	-0.6	104	0.00	3.91- 3.97
9	B	Heptachlor Epoxide	7.316	7.452	E6	-1.9	104	0.00	4.61- 4.67
10	B	gamma-Chlordane	7.527	7.570	E6	-0.6	105	0.00	4.87- 4.93
11	B	alpha-Chlordane	7.127	7.288	E6	-2.3	105	0.00	5.07- 5.13
12	A	Endosulfan I	6.698	6.874	E6	-2.6	105	0.00	5.15- 5.21
13	B	4,4'-DDE	6.682	6.921	E6	-3.6	104	0.00	5.31- 5.37
14	MA	Dieldrin	6.998	7.245	E6	-3.5	103	0.00	5.54- 5.60
15	MA	Endrin	6.384	5.693	E6	10.8	91	0.00	5.99- 6.05
16	A	4,4'-DDD	5.135	5.346	E6	-4.1	103	0.00	6.19- 6.25
17	B	Endosulfan II	6.268	6.415	E6	-2.3	108	0.00	6.32- 6.38
18	MA	4,4'-DDT	4.793	4.876	E6	-1.7	100	0.00	6.69- 6.75
19	B	Endrin Aldehyde	5.112	5.288	E6	-3.4	112	0.00	6.85- 6.91
20	B	Endosulfan Sulfate	5.075	4.859	E6	4.3	102	0.00	7.31- 7.37
21	A	Methoxychlor	2.714	2.533	E6	6.7	100	0.00	7.85- 7.91
22		Mirex	4.909	4.818	E6	1.9	107	0.00	8.13- 8.19
23	B	Endrin Ketone	6.360	6.836	E6	-7.5	111	0.00	8.18- 8.25
24	L8	Toxaphene{A}				-----NA-----			
25	L8	Toxaphene{B}				-----NA-----			
26	L8	Toxaphene{C}				-----NA-----			
27	L8	Toxaphene{D}				-----NA-----			
28	L8	Toxaphene{E}				-----NA-----			
29		Chlordane {A}				-----NA-----			
30		Chlordane {B}				-----NA-----			
31		Chlordane {C}				-----NA-----			
32		Chlordane {D}				-----NA-----			
33		Chlordane {E}				-----NA-----			
34	SA	Decachlorobiphenyl	4.758	4.663	E6	2.0	106	0.00	10.22-10.28

(#) = Out of Range

1G58362.D 1PST2127.M

SPCC's out = 0 CCC's out = 0

Tue Nov 02 10:12:01 2010 RPT1

9.8.6  
6



## Initial Calibration Summary

Page 1 of 2

Job Number: JA58750

Sample: G3G1826-ICC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G49429.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

### Response Factor Report GC3G

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)

Title :

Last Update : Mon Sep 27 11:38:08 2010

Response via : Initial Calibration

#### Calibration Files

50 =3G49426.D 250 =3G49427.D 500 =3G49428.D 1000=3G49429.D

2000 =3G49430.D 3000 =3G49431.D

	Compound	50	250	500	1000	2000	3000	Avg	%RSD
1) S	Tetrachloro-m-xylen	2.491	2.480	2.474	2.539	2.502	2.549	2.506 E7	1.26
2)	AR1221-A				1.620			1.620 E5	0.00
3)	AR1221-B				2.332			2.332 E5	0.00
4)	AR1221-C				7.303			7.303 E5	0.00
5)	AR1221-D				6.926			6.926 E4	0.00
6)	AR1221-E				1.084			1.084 E5	0.00
7)	AR1232-A				6.239			6.239 E5	0.00
8)	AR1232-B				4.213			4.213 E5	0.00
9)	AR1232-C				9.400			9.400 E5	0.00
10)	AR1232-D				3.436			3.436 E5	0.00
11)	AR1232-E				3.231			3.231 E5	0.00
12)	AR1242-A				7.339			7.339 E5	0.00
13)	AR1242-B				1.722			1.722 E6	0.00
14)	AR1242-C				6.353			6.353 E5	0.00
15)	AR1242-D				6.541			6.541 E5	0.00
16)	AR1242-E				5.754			5.754 E5	0.00
17)	AR1248-A				3.252			3.252 E5	0.00
18)	AR1248-B				9.172			9.172 E5	0.00
19)	AR1248-C				5.781			5.781 E5	0.00
20)	AR1248-D				1.029			1.029 E6	0.00
21)	AR1248-E				8.972			8.972 E5	0.00
22)	AR1248-F				1.058			1.058 E6	0.00
23)	AR1254-A				9.080			9.080 E5	0.00
24)	AR1254-B				1.194			1.194 E6	0.00
25)	AR1254-C				8.781			8.781 E5	0.00
26)	AR1254-D				1.587			1.587 E6	0.00
27)	AR1254-E				1.320			1.320 E6	0.00
28)	AR1254-F				1.108			1.108 E6	0.00
29)	AR1254-G				1.561			1.561 E6	0.00
30)	AR1016-A	5.468	4.965	4.723	4.699	4.521	4.580	4.826 E5	7.25
31)	AR1016-B	9.589	8.767	8.472	8.537	8.228	8.343	8.656 E5	5.69
32)	AR1016-C	2.130	2.000	1.979	2.016	1.951	1.946	2.004 E6	3.38
33)	AR1016-D	8.152	7.603	7.331	7.460	7.258	7.383	7.531 E5	4.33
34)	AR1016-E	8.014	7.738	7.539	7.646	7.429	7.601	7.661 E5	2.63
35)	AR1260-A	1.796	1.752	1.756	1.796	1.723	1.732	1.759 E6	1.76
36)	AR1260-B	1.910	1.899	1.763	1.900	1.804	1.927	1.867 E6	3.59
37)	AR1260-C	1.233	1.128	1.117	1.144	1.107	1.127	1.143 E6	4.00
38)	AR1260-D	2.903	2.887	2.886	2.943	2.782	2.779	2.863 E6	2.35
39)	AR1260-E	1.902	1.844	1.841	1.895	1.849	1.885	1.869 E6	1.48
40)	AR1262-A				1.314			1.314 E6	0.00
41)	AR1262-B				1.773			1.773 E6	0.00
42)	AR1262-C				1.531			1.531 E6	0.00
43)	AR1262-D				3.315			3.315 E6	0.00
44)	AR1262-E				1.342			1.342 E6	0.00
45)	AR1268-A				3.664			3.664 E6	0.00
46)	AR1268-B				4.216			4.216 E6	0.00
47)	AR1268-C				2.980			2.980 E6	0.00

9.8.7



# Initial Calibration Summary

Page 2 of 2

Job Number: JA58750

Sample: G3G1826-ICC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G49429.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

48)	AR1268-D				1.156				1.156 E6	0.00
49)	AR1268-E				8.152				8.152 E6	0.00
50) S	Decachlorobiphenyl	2.440	2.376	2.340	2.372	2.297	2.354	2.363	E7	2.01

Signal #2

1) S	Tetrachloro-m-xylene	1.824	1.879	1.831	1.857	1.816	1.858	1.844	E7	1.31
2)	AR1221-A				1.261			1.261	E5	0.00
3)	AR1221-B				1.609			1.609	E5	0.00
4)	AR1221-C				4.219			4.219	E5	0.00
5)	AR1221-D				6.132			6.132	E4	0.00
6)	AR1221-E				6.759			6.759	E4	0.00
7)	AR1232-A				3.835			3.835	E5	0.00
8)	AR1232-B				2.902			2.902	E5	0.00
9)	AR1232-C				5.899			5.899	E5	0.00
10)	AR1232-D				2.524			2.524	E5	0.00
11)	AR1232-E				1.557			1.557	E5	0.00
12)	AR1242-A				5.051			5.051	E5	0.00
13)	AR1242-B				1.082			1.082	E6	0.00
14)	AR1242-C				4.595			4.595	E5	0.00
15)	AR1242-D				3.186			3.186	E5	0.00
16)	AR1242-E				3.779			3.779	E5	0.00
17)	AR1248-A				2.320			2.320	E5	0.00
18)	AR1248-B				6.327			6.327	E5	0.00
19)	AR1248-C				3.901			3.901	E5	0.00
20)	AR1248-D				5.128			5.128	E5	0.00
21)	AR1248-E				6.156			6.156	E5	0.00
22)	AR1248-F				8.246			8.246	E5	0.00
23)	AR1254-A				9.028			9.028	E5	0.00
24)	AR1254-B				6.981			6.981	E5	0.00
25)	AR1254-C				5.458			5.458	E5	0.00
26)	AR1254-D				1.021			1.021	E6	0.00
27)	AR1254-E				7.264			7.264	E5	0.00
28)	AR1254-F				5.863			5.863	E5	0.00
29)	AR1254-G				1.033			1.033	E6	0.00
30)	AR1016-A	3.201	3.184	3.053	2.961	2.826	2.863	3.015	E5	5.27
31)	AR1016-B	6.521	6.136	5.836	5.808	5.600	5.696	5.933	E5	5.73
32)	AR1016-C	1.193	1.225	1.220	1.254	1.231	1.260	1.230	E6	1.98
33)	AR1016-D	5.651	5.616	5.454	5.383	5.154	5.267	5.421	E5	3.58
34)	AR1016-E	3.995	3.650	3.609	3.639	3.581	3.671	3.691	E5	4.14
35)	AR1260-A	9.078	8.947	8.350	8.837	8.478	8.940	8.772	E5	3.31
36)	AR1260-B	1.186	1.192	1.175	1.203	1.180	1.213	1.191	E6	1.22
37)	AR1260-C	7.432	6.944	6.843	7.013	6.885	7.093	7.035	E5	3.04
38)	AR1260-D	1.579	1.562	1.568	1.621	1.574	1.599	1.584	E6	1.41
39)	AR1260-E	1.107	1.043	1.043	1.079	1.058	1.092	1.070	E6	2.49
40)	AR1262-A				7.104			7.104	E5	0.00
41)	AR1262-B				1.020			1.020	E6	0.00
42)	AR1262-C				9.517			9.517	E5	0.00
43)	AR1262-D				1.972			1.972	E6	0.00
44)	AR1262-E				1.342			1.342	E6	0.00
45)	AR1268-A				2.161			2.161	E6	0.00
46)	AR1268-B				2.424			2.424	E6	0.00
47)	AR1268-C				1.674			1.674	E6	0.00
48)	AR1268-D				6.602			6.602	E5	0.00
49)	AR1268-E				4.800			4.800	E6	0.00
50) S	Decachlorobiphenyl	1.452	1.373	1.336	1.356	1.320	1.363	1.367	E7	3.37

( # ) = Out of Range

PCB1826.M

Mon Sep 27 11:44:26 2010

GC3G

**Initial Calibration Verification**

Page 1 of 3

Job Number: JA58750

Sample: G3G1826-ICV1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G49432.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1826\3G49432.D\ECD1A.CH Vial: 35  
 Signal #2 : C:\MSDCHEM\1\DATA\1826\3G49432.D\ECD2B.CH  
 Acq On : 9-24-2010 09:09:43 PM Operator: toyar  
 Sample : ICV1826-1000 Inst : GC3G  
 Misc : OP45784,g3g1826,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Sep 27 11:38:08 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT	Window
1 S	Tetrachloro-m-xylene			-----NA-----				
2	AR1221-A			-----NA-----				
3	AR1221-B			-----NA-----				
4	AR1221-C			-----NA-----				
5	AR1221-D			-----NA-----				
6	AR1221-E			-----NA-----				
7	AR1232-A			-----NA-----				
8	AR1232-B			-----NA-----				
9	AR1232-C			-----NA-----				
10	AR1232-D			-----NA-----				
11	AR1232-E			-----NA-----				
12	AR1242-A			-----NA-----				
13	AR1242-B			-----NA-----				
14	AR1242-C			-----NA-----				
15	AR1242-D			-----NA-----				
16	AR1242-E			-----NA-----				
17	AR1248-A			-----NA-----				
18	AR1248-B			-----NA-----				
19	AR1248-C			-----NA-----				
20	AR1248-D			-----NA-----				
21	AR1248-E			-----NA-----				
22	AR1248-F			-----NA-----				
23	AR1254-A			-----NA-----				
24	AR1254-B			-----NA-----				
25	AR1254-C			-----NA-----				
26	AR1254-D			-----NA-----				
27	AR1254-E			-----NA-----				
28	AR1254-F			-----NA-----				
29	AR1254-G			-----NA-----				
30	AR1016-A	482.617	468.002 E3	3.0	100	0.00	2.64-	2.70
31	AR1016-B	865.609	857.343 E3	1.0	100	0.00	3.02-	3.08
32	AR1016-C	2.004	2.010 E6	-0.3	100	0.00	3.55-	3.61
33	AR1016-D	753.110	740.240 E3	1.7	99	0.00	3.70-	3.76
34	AR1016-E	766.132	762.674 E3	0.5	100	0.00	4.17-	4.23
35	AR1260-A	1.759	1.774 E6	-0.9	99	0.00	6.03-	6.09
36	AR1260-B	1.867	1.914 E6	-2.5	101	0.00	6.38-	6.44
37	AR1260-C	1.143	1.172 E6	-2.5	102	0.00	6.84-	6.90
38	AR1260-D	2.863	3.053 E6	-6.6	104	0.00	7.24-	7.30
39	AR1260-E	1.869	1.925 E6	-3.0	102	0.00	7.60-	7.66
40	AR1262-A			-----NA-----				
41	AR1262-B			-----NA-----				

9.8.8  
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# Initial Calibration Verification

Page 2 of 3

Job Number: JA58750

Sample: G3G1826-ICV1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G49432.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-C	-----NA-----
43	AR1262-D	-----NA-----
44	AR1262-E	-----NA-----
45	AR1268-A	-----NA-----
46	AR1268-B	-----NA-----
47	AR1268-C	-----NA-----
48	AR1268-D	-----NA-----
49	AR1268-E	-----NA-----
50 S	Decachlorobiphenyl	-----NA-----

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	-----NA-----
2	AR1221-A	-----NA-----
3	AR1221-B	-----NA-----
4	AR1221-C	-----NA-----
5	AR1221-D	-----NA-----
6	AR1221-E	-----NA-----
7	AR1232-A	-----NA-----
8	AR1232-B	-----NA-----
9	AR1232-C	-----NA-----
10	AR1232-D	-----NA-----
11	AR1232-E	-----NA-----
12	AR1242-A	-----NA-----
13	AR1242-B	-----NA-----
14	AR1242-C	-----NA-----
15	AR1242-D	-----NA-----
16	AR1242-E	-----NA-----
17	AR1248-A	-----NA-----
18	AR1248-B	-----NA-----
19	AR1248-C	-----NA-----
20	AR1248-D	-----NA-----
21	AR1248-E	-----NA-----
22	AR1248-F	-----NA-----
23	AR1254-A	-----NA-----
24	AR1254-B	-----NA-----
25	AR1254-C	-----NA-----
26	AR1254-D	-----NA-----
27	AR1254-E	-----NA-----
28	AR1254-F	-----NA-----
29	AR1254-G	-----NA-----
30	AR1016-A	301.470 299.854 E3 0.5 101 0.00 2.61- 2.67
31	AR1016-B	593.289 581.935 E3 1.9 100 0.00 3.02- 3.08
32	AR1016-C	1.230 1.246 E6 -1.3 99 0.00 3.53- 3.59
33	AR1016-D	542.084 538.650 E3 0.6 100 0.00 3.67- 3.73
34	AR1016-E	369.060 362.354 E3 1.8 100 0.00 4.21- 4.27
35	AR1260-A	877.166 899.295 E3 -2.5 102 0.00 6.04- 6.10
36	AR1260-B	1.191 1.174 E6 1.4 98 0.00 6.47- 6.53
37	AR1260-C	703.487 721.111 E3 -2.5 103 0.00 6.96- 7.02
38	AR1260-D	1.584 1.679 E6 -6.0 104 0.00 7.30- 7.36
39	AR1260-E	1.070 1.097 E6 -2.5 102 0.00 7.76- 7.82
40	AR1262-A	-----NA-----
41	AR1262-B	-----NA-----
42	AR1262-C	-----NA-----
43	AR1262-D	-----NA-----
44	AR1262-E	-----NA-----
45	AR1268-A	-----NA-----
46	AR1268-B	-----NA-----
47	AR1268-C	-----NA-----
48	AR1268-D	-----NA-----

9.8.8  
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# Initial Calibration Verification

Page 3 of 3

Job Number: JA58750

Sample: G3G1826-ICV1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G49432.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

49	AR1268-E	-----NA-----
50 S	Decachlorobiphenyl	-----NA-----

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3G49429.D PCB1826.M

Mon Sep 27 11:44:25 2010 GC3G

9.8.8

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## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50277.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1851\3G50277.D\ECD1A.CH Vial: 1  
 Signal #2 : C:\MSDCHEM\1\DATA\1851\3G50277.D\ECD2B.CH  
 Acq On : 10-26-2010 09:56:24 AM Operator: toyar  
 Sample : cc1826-500 Inst : GC3G  
 Misc : OP46314,g3g1851,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Oct 25 13:29:31 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	25.058	21.586 E6	13.9	87	0.00	2.27- 2.33
2	AR1221-A			-----NA-----			
3	AR1221-B			-----NA-----			
4	AR1221-C			-----NA-----			
5	AR1221-D			-----NA-----			
6	AR1221-E			-----NA-----			
7	AR1232-A			-----NA-----			
8	AR1232-B			-----NA-----			
9	AR1232-C			-----NA-----			
10	AR1232-D			-----NA-----			
11	AR1232-E			-----NA-----			
12	AR1242-A			-----NA-----			
13	AR1242-B			-----NA-----			
14	AR1242-C			-----NA-----			
15	AR1242-D			-----NA-----			
16	AR1242-E			-----NA-----			
17	AR1248-A			-----NA-----			
18	AR1248-B			-----NA-----			
19	AR1248-C			-----NA-----			
20	AR1248-D			-----NA-----			
21	AR1248-E			-----NA-----			
22	AR1248-F			-----NA-----			
23	AR1254-A			-----NA-----			
24	AR1254-B			-----NA-----			
25	AR1254-C			-----NA-----			
26	AR1254-D			-----NA-----			
27	AR1254-E			-----NA-----			
28	AR1254-F			-----NA-----			
29	AR1254-G			-----NA-----			
30	AR1016-A	482.617	447.305 E3	7.3	95	0.00	2.62- 2.68
31	AR1016-B	865.609	838.204 E3	3.2	99	0.00	2.99- 3.05
32	AR1016-C	2.004	1.955 E6	2.4	99	0.00	3.52- 3.58
33	AR1016-D	753.110	733.052 E3	2.7	100	0.00	3.67- 3.73
34	AR1016-E	766.132	768.272 E3	-0.3	102	0.00	4.14- 4.20
35	AR1260-A	1.759	1.834 E6	-4.3	104	0.00	5.99- 6.05
36	AR1260-B	1.867	1.731 E6	7.3	98	0.00	6.34- 6.40
37	AR1260-C	1.143	1.132 E6	1.0	101	0.00	6.80- 6.86
38	AR1260-D	2.863	3.005 E6	-5.0	104	0.00	7.20- 7.26
39	AR1260-E	1.869	1.828 E6	2.2	99	0.00	7.57- 7.63
40	AR1262-A			-----NA-----			
41	AR1262-B			-----NA-----			

9.8.9



# Continuing Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50277.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								
49	AR1268-E								
50 S	Decachlorobiphenyl	23.633	20.809	E6	11.9	89	0.00	8.98-	9.04

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	18.440	18.528	E6	-0.5	101	0.00	2.13-	2.19
2	AR1221-A								
3	AR1221-B								
4	AR1221-C								
5	AR1221-D								
6	AR1221-E								
7	AR1232-A								
8	AR1232-B								
9	AR1232-C								
10	AR1232-D								
11	AR1232-E								
12	AR1242-A								
13	AR1242-B								
14	AR1242-C								
15	AR1242-D								
16	AR1242-E								
17	AR1248-A								
18	AR1248-B								
19	AR1248-C								
20	AR1248-D								
21	AR1248-E								
22	AR1248-F								
23	AR1254-A								
24	AR1254-B								
25	AR1254-C								
26	AR1254-D								
27	AR1254-E								
28	AR1254-F								
29	AR1254-G								
30	AR1016-A	301.470	298.454	E3	1.0	98	0.00	2.57-	2.63
31	AR1016-B	593.289	617.297	E3	-4.0	106	0.00	2.98-	3.04
32	AR1016-C	1.230	1.283	E6	-4.3	105	0.00	3.48-	3.54
33	AR1016-D	542.084	589.865	E3	-8.8	108	0.00	3.63-	3.69
34	AR1016-E	369.060	393.918	E3	-6.7	109	0.00	4.16-	4.22
35	AR1260-A	877.166	852.737	E3	2.8	102	0.00	5.98-	6.04
36	AR1260-B	1.191	1.327	E6	-11.4	113	0.00	6.42-	6.48
37	AR1260-C	703.487	788.832	E3	-12.1	115	0.00	6.90-	6.96
38	AR1260-D	1.584	1.810	E6	-14.3	115	0.00	7.24-	7.30
39	AR1260-E	1.070	1.159	E6	-8.3	111	0.00	7.70-	7.76
40	AR1262-A								
41	AR1262-B								
42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								

9.8.9  
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# Continuing Calibration Summary

Page 3 of 3

Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50277.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

49	AR1268-E				-----NA-----				
50 S	Decachlorobiphenyl	13.667	14.075	E6	-3.0	105	0.00	9.19-	9.25

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3G49428.D PCB1826.M

Tue Oct 26 13:24:30 2010 GC3G

9.8.9  
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## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50288.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1851\3G50288.D\ECD1A.CH Vial: 12  
 Signal #2 : C:\MSDCHEM\1\DATA\1851\3G50288.D\ECD2B.CH  
 Acq On : 10-26-2010 01:01:43 PM Operator: toyar  
 Sample : cc1826-1000 Inst : GC3G  
 Misc : OP46314,g3g1851,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Mon Oct 25 13:29:31 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	25.058	24.909 E6	0.6	98	0.00	2.27- 2.33
2	AR1221-A			-----NA-----			
3	AR1221-B			-----NA-----			
4	AR1221-C			-----NA-----			
5	AR1221-D			-----NA-----			
6	AR1221-E			-----NA-----			
7	AR1232-A			-----NA-----			
8	AR1232-B			-----NA-----			
9	AR1232-C			-----NA-----			
10	AR1232-D			-----NA-----			
11	AR1232-E			-----NA-----			
12	AR1242-A			-----NA-----			
13	AR1242-B			-----NA-----			
14	AR1242-C			-----NA-----			
15	AR1242-D			-----NA-----			
16	AR1242-E			-----NA-----			
17	AR1248-A			-----NA-----			
18	AR1248-B			-----NA-----			
19	AR1248-C			-----NA-----			
20	AR1248-D			-----NA-----			
21	AR1248-E			-----NA-----			
22	AR1248-F			-----NA-----			
23	AR1254-A			-----NA-----			
24	AR1254-B			-----NA-----			
25	AR1254-C			-----NA-----			
26	AR1254-D			-----NA-----			
27	AR1254-E			-----NA-----			
28	AR1254-F			-----NA-----			
29	AR1254-G			-----NA-----			
30	AR1016-A	482.617	457.442 E3	5.2	97	0.00	2.62- 2.68
31	AR1016-B	865.609	862.394 E3	0.4	101	0.00	2.99- 3.05
32	AR1016-C	2.004	2.006 E6	-0.1	99	0.00	3.52- 3.58
33	AR1016-D	753.110	752.158 E3	0.1	101	0.00	3.67- 3.73
34	AR1016-E	766.132	789.345 E3	-3.0	103	0.00	4.14- 4.20
35	AR1260-A	1.759	1.861 E6	-5.8	104	0.00	5.99- 6.05
36	AR1260-B	1.867	1.917 E6	-2.7	101	0.00	6.35- 6.41
37	AR1260-C	1.143	1.185 E6	-3.7	104	0.00	6.80- 6.86
38	AR1260-D	2.863	3.289 E6	-14.9	112	0.00	7.20- 7.26
39	AR1260-E	1.869	1.963 E6	-5.0	104	0.00	7.57- 7.63
40	AR1262-A			-----NA-----			
41	AR1262-B			-----NA-----			

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# Continuing Calibration Summary

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Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50288.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								
49	AR1268-E								
50 S	Decachlorobiphenyl	23.633	22.726 E6	3.8	96	0.00	8.99-	9.05	

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	18.440	18.604 E6	-0.9	100	0.00	2.12-	2.18	
2	AR1221-A								
3	AR1221-B								
4	AR1221-C								
5	AR1221-D								
6	AR1221-E								
7	AR1232-A								
8	AR1232-B								
9	AR1232-C								
10	AR1232-D								
11	AR1232-E								
12	AR1242-A								
13	AR1242-B								
14	AR1242-C								
15	AR1242-D								
16	AR1242-E								
17	AR1248-A								
18	AR1248-B								
19	AR1248-C								
20	AR1248-D								
21	AR1248-E								
22	AR1248-F								
23	AR1254-A								
24	AR1254-B								
25	AR1254-C								
26	AR1254-D								
27	AR1254-E								
28	AR1254-F								
29	AR1254-G								
30	AR1016-A	301.470	299.385 E3	0.7	101	0.00	2.57-	2.63	
31	AR1016-B	593.289	592.114 E3	0.2	102	0.00	2.98-	3.04	
32	AR1016-C	1.230	1.232 E6	-0.2	98	0.00	3.49-	3.55	
33	AR1016-D	542.084	571.962 E3	-5.5	106	0.00	3.63-	3.69	
34	AR1016-E	369.060	370.371 E3	-0.4	102	0.00	4.16-	4.22	
35	AR1260-A	877.166	910.668 E3	-3.8	103	0.00	5.99-	6.05	
36	AR1260-B	1.191	1.253 E6	-5.2	104	0.00	6.42-	6.48	
37	AR1260-C	703.487	762.647 E3	-8.4	109	0.00	6.91-	6.97	
38	AR1260-D	1.584	1.789 E6	-12.9	110	0.00	7.25-	7.31	
39	AR1260-E	1.070	1.103 E6	-3.1	102	0.00	7.70-	7.76	
40	AR1262-A								
41	AR1262-B								
42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								

9.8.10

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## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50299.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1851\3G50299.D\ECD1A.CH Vial: 23  
 Signal #2 : C:\MSDCHEM\1\DATA\1851\3G50299.D\ECD2B.CH  
 Acq On : 10-26-2010 04:39:29 PM Operator: toyar  
 Sample : cc1826-500 Inst : GC3G  
 Misc : OP46321,g3g1851,17.4,,,10,50 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Oct 26 15:14:51 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	25.058	23.764 E6	5.2	96	0.00	2.27- 2.33
2	AR1221-A			-----NA-----			
3	AR1221-B			-----NA-----			
4	AR1221-C			-----NA-----			
5	AR1221-D			-----NA-----			
6	AR1221-E			-----NA-----			
7	AR1232-A			-----NA-----			
8	AR1232-B			-----NA-----			
9	AR1232-C			-----NA-----			
10	AR1232-D			-----NA-----			
11	AR1232-E			-----NA-----			
12	AR1242-A			-----NA-----			
13	AR1242-B			-----NA-----			
14	AR1242-C			-----NA-----			
15	AR1242-D			-----NA-----			
16	AR1242-E			-----NA-----			
17	AR1248-A			-----NA-----			
18	AR1248-B			-----NA-----			
19	AR1248-C			-----NA-----			
20	AR1248-D			-----NA-----			
21	AR1248-E			-----NA-----			
22	AR1248-F			-----NA-----			
23	AR1254-A			-----NA-----			
24	AR1254-B			-----NA-----			
25	AR1254-C			-----NA-----			
26	AR1254-D			-----NA-----			
27	AR1254-E			-----NA-----			
28	AR1254-F			-----NA-----			
29	AR1254-G			-----NA-----			
30	AR1016-A	482.617	452.681 E3	6.2	96	0.00	2.62- 2.68
31	AR1016-B	865.609	848.275 E3	2.0	100	0.00	3.00- 3.06
32	AR1016-C	2.004	1.956 E6	2.4	99	0.00	3.52- 3.58
33	AR1016-D	753.110	732.974 E3	2.7	100	0.00	3.67- 3.73
34	AR1016-E	766.132	756.753 E3	1.2	100	0.00	4.14- 4.20
35	AR1260-A	1.759	1.570 E6	10.7	89	0.00	5.99- 6.05
36	AR1260-B	1.867	1.616 E6	13.4	92	0.00	6.34- 6.40
37	AR1260-C	1.143	1.002 E6	12.3	90	0.00	6.80- 6.86
38	AR1260-D	2.863	2.679 E6	6.4	93	0.00	7.20- 7.26
39	AR1260-E	1.869	1.609 E6	13.9	87	0.00	7.57- 7.63
40	AR1262-A			-----NA-----			
41	AR1262-B			-----NA-----			

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# Continuing Calibration Summary

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Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50299.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								
49	AR1268-E								
50 S	Decachlorobiphenyl	23.633	18.100	E6	23.4#	77	0.00	8.99-	9.05

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	18.440	17.923	E6	2.8	98	0.00	2.13-	2.19
2	AR1221-A								
3	AR1221-B								
4	AR1221-C								
5	AR1221-D								
6	AR1221-E								
7	AR1232-A								
8	AR1232-B								
9	AR1232-C								
10	AR1232-D								
11	AR1232-E								
12	AR1242-A								
13	AR1242-B								
14	AR1242-C								
15	AR1242-D								
16	AR1242-E								
17	AR1248-A								
18	AR1248-B								
19	AR1248-C								
20	AR1248-D								
21	AR1248-E								
22	AR1248-F								
23	AR1254-A								
24	AR1254-B								
25	AR1254-C								
26	AR1254-D								
27	AR1254-E								
28	AR1254-F								
29	AR1254-G								
30	AR1016-A	301.470	299.776	E3	0.6	98	0.00	2.57-	2.63
31	AR1016-B	593.289	598.421	E3	-0.9	103	0.00	2.98-	3.04
32	AR1016-C	1.230	1.241	E6	-0.9	102	0.00	3.48-	3.54
33	AR1016-D	542.084	566.318	E3	-4.5	104	0.00	3.63-	3.69
34	AR1016-E	369.060	376.189	E3	-1.9	104	0.00	4.16-	4.22
35	AR1260-A	877.166	820.414	E3	6.5	98	0.00	5.98-	6.04
36	AR1260-B	1.191	1.142	E6	4.1	97	0.00	6.42-	6.48
37	AR1260-C	703.487	658.561	E3	6.4	96	0.00	6.90-	6.96
38	AR1260-D	1.584	1.509	E6	4.7	96	0.00	7.24-	7.30
39	AR1260-E	1.070	0.983	E6	8.1	94	0.00	7.70-	7.76
40	AR1262-A								
41	AR1262-B								
42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								

9.8.11  
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# Continuing Calibration Summary

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Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50299.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

49	AR1268-E	-----NA-----							
50 S	Decachlorobiphenyl	13.667	11.858 E6	13.2	.89	0.00	9.20-	9.26	

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3G49428.D PCB1826.M

Tue Oct 26 16:55:20 2010 GC3G

9.8.11



## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50310.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1851\3G50310.D\ECD1A.CH Vial: 34  
 Signal #2 : C:\MSDCHEM\1\DATA\1851\3G50310.D\ECD2B.CH  
 Acq On : 10-26-2010 08:10:39 PM Operator: toyar  
 Sample : cc1826-1000 Inst : GC3G  
 Misc : OP46353,g3g1851,17.1,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Oct 26 15:14:51 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	25.058	26.501 E6	-5.8	104	0.00	2.27- 2.33
2	AR1221-A			-----NA-----			
3	AR1221-B			-----NA-----			
4	AR1221-C			-----NA-----			
5	AR1221-D			-----NA-----			
6	AR1221-E			-----NA-----			
7	AR1232-A			-----NA-----			
8	AR1232-B			-----NA-----			
9	AR1232-C			-----NA-----			
10	AR1232-D			-----NA-----			
11	AR1232-E			-----NA-----			
12	AR1242-A			-----NA-----			
13	AR1242-B			-----NA-----			
14	AR1242-C			-----NA-----			
15	AR1242-D			-----NA-----			
16	AR1242-E			-----NA-----			
17	AR1248-A			-----NA-----			
18	AR1248-B			-----NA-----			
19	AR1248-C			-----NA-----			
20	AR1248-D			-----NA-----			
21	AR1248-E			-----NA-----			
22	AR1248-F			-----NA-----			
23	AR1254-A			-----NA-----			
24	AR1254-B			-----NA-----			
25	AR1254-C			-----NA-----			
26	AR1254-D			-----NA-----			
27	AR1254-E			-----NA-----			
28	AR1254-F			-----NA-----			
29	AR1254-G			-----NA-----			
30	AR1016-A	482.617	471.517 E3	2.3	100	0.00	2.63- 2.69
31	AR1016-B	865.609	894.518 E3	-3.3	105	0.00	3.00- 3.06
32	AR1016-C	2.004	2.068 E6	-3.2	103	0.00	3.52- 3.58
33	AR1016-D	753.110	774.802 E3	-2.9	104	0.00	3.68- 3.74
34	AR1016-E	766.132	812.860 E3	-6.1	106	0.00	4.15- 4.21
35	AR1260-A	1.759	1.989 E6	-13.1	111	0.00	5.99- 6.05
36	AR1260-B	1.867	2.034 E6	-8.9	107	0.00	6.35- 6.41
37	AR1260-C	1.143	1.273 E6	-11.4	111	0.00	6.80- 6.86
38	AR1260-D	2.863	3.497 E6	-22.1#	119	0.00	7.20- 7.26
39	AR1260-E	1.869	2.072 E6	-10.9	109	0.00	7.57- 7.63
40	AR1262-A			-----NA-----			
41	AR1262-B			-----NA-----			

9.8.12  
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# Continuing Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50310.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								
49	AR1268-E								
50 S	Decachlorobiphenyl	23.633	24.584	E6	-4.0	104	0.00	8.99-	9.05

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	18.440	18.969	E6	-2.9	102	0.00	2.13-	2.19
2	AR1221-A								
3	AR1221-B								
4	AR1221-C								
5	AR1221-D								
6	AR1221-E								
7	AR1232-A								
8	AR1232-B								
9	AR1232-C								
10	AR1232-D								
11	AR1232-E								
12	AR1242-A								
13	AR1242-B								
14	AR1242-C								
15	AR1242-D								
16	AR1242-E								
17	AR1248-A								
18	AR1248-B								
19	AR1248-C								
20	AR1248-D								
21	AR1248-E								
22	AR1248-F								
23	AR1254-A								
24	AR1254-B								
25	AR1254-C								
26	AR1254-D								
27	AR1254-E								
28	AR1254-F								
29	AR1254-G								
30	AR1016-A	301.470	273.957	E3	9.1	93	0.00	2.58-	2.64
31	AR1016-B	593.289	613.201	E3	-3.4	106	0.00	2.98-	3.04
32	AR1016-C	1.230	1.255	E6	-2.0	100	0.00	3.49-	3.55
33	AR1016-D	542.084	572.976	E3	-5.7	106	0.00	3.63-	3.69
34	AR1016-E	369.060	367.528	E3	0.4	101	0.00	4.16-	4.22
35	AR1260-A	877.166	932.563	E3	-6.3	106	0.00	5.99-	6.05
36	AR1260-B	1.191	1.281	E6	-7.6	106	0.00	6.42-	6.48
37	AR1260-C	703.487	778.289	E3	-10.6	111	0.00	6.90-	6.96
38	AR1260-D	1.584	1.818	E6	-14.8	112	0.00	7.24-	7.30
39	AR1260-E	1.070	1.120	E6	-4.7	104	0.00	7.70-	7.76
40	AR1262-A								
41	AR1262-B								
42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								

9.8.12

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# Continuing Calibration Summary

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Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50310.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

49	AR1268-E	-----NA-----							
50 S	Decachlorobiphenyl	13.667	14.755	E6	-8.0	109	0.00	9.20-	9.26

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3G49429.D PCB1826.M

Wed Oct 27 08:37:01 2010 GC3G

9.8.12

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## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50321.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1851\3G50321.D\ECD1A.CH Vial: 45  
 Signal #2 : C:\MSDCHEM\1\DATA\1851\3G50321.D\ECD2B.CH  
 Acq On : 26 Oct 2010 11:11 pm Operator: toyar  
 Sample : cc1826-500 Inst : GC3G  
 Misc : OP46353,g3g1851,17.1,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Oct 26 15:14:51 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	25.058	24.876 E6	0.7	101	0.00	2.27- 2.33
2	AR1221-A			-----NA-----			
3	AR1221-B			-----NA-----			
4	AR1221-C			-----NA-----			
5	AR1221-D			-----NA-----			
6	AR1221-E			-----NA-----			
7	AR1232-A			-----NA-----			
8	AR1232-B			-----NA-----			
9	AR1232-C			-----NA-----			
10	AR1232-D			-----NA-----			
11	AR1232-E			-----NA-----			
12	AR1242-A			-----NA-----			
13	AR1242-B			-----NA-----			
14	AR1242-C			-----NA-----			
15	AR1242-D			-----NA-----			
16	AR1242-E			-----NA-----			
17	AR1248-A			-----NA-----			
18	AR1248-B			-----NA-----			
19	AR1248-C			-----NA-----			
20	AR1248-D			-----NA-----			
21	AR1248-E			-----NA-----			
22	AR1248-F			-----NA-----			
23	AR1254-A			-----NA-----			
24	AR1254-B			-----NA-----			
25	AR1254-C			-----NA-----			
26	AR1254-D			-----NA-----			
27	AR1254-E			-----NA-----			
28	AR1254-F			-----NA-----			
29	AR1254-G			-----NA-----			
30	AR1016-A	482.617	493.429 E3	-2.2	104	0.00	2.63- 2.69
31	AR1016-B	865.609	950.256 E3	-9.8	112	0.00	3.00- 3.06
32	AR1016-C	2.004	2.093 E6	-4.4	106	0.00	3.53- 3.59
33	AR1016-D	753.110	796.476 E3	-5.8	109	0.00	3.68- 3.74
34	AR1016-E	766.132	817.344 E3	-6.7	108	0.00	4.15- 4.21
35	AR1260-A	1.759	2.074 E6	-17.9#	118	0.00	5.99- 6.05
36	AR1260-B	1.867	1.914 E6	-2.5	109	0.00	6.34- 6.40
37	AR1260-C	1.143	1.332 E6	-16.5#	119	0.00	6.80- 6.86
38	AR1260-D	2.863	3.729 E6	-30.2#	129	0.00	7.20- 7.26
39	AR1260-E	1.869	2.210 E6	-18.2#	120	0.00	7.57- 7.63
40	AR1262-A			-----NA-----			
41	AR1262-B			-----NA-----			

9.8.13 9

# Continuing Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50321.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								
49	AR1268-E								
50 S	Decachlorobiphenyl	23.633	26.766	E6	-13.3	114	0.00	8.98-	9.04

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	18.440	19.583	E6	-6.2	107	0.00	2.13-	2.19
2	AR1221-A								
3	AR1221-B								
4	AR1221-C								
5	AR1221-D								
6	AR1221-E								
7	AR1232-A								
8	AR1232-B								
9	AR1232-C								
10	AR1232-D								
11	AR1232-E								
12	AR1242-A								
13	AR1242-B								
14	AR1242-C								
15	AR1242-D								
16	AR1242-E								
17	AR1248-A								
18	AR1248-B								
19	AR1248-C								
20	AR1248-D								
21	AR1248-E								
22	AR1248-F								
23	AR1254-A								
24	AR1254-B								
25	AR1254-C								
26	AR1254-D								
27	AR1254-E								
28	AR1254-F								
29	AR1254-G								
30	AR1016-A	301.470	281.165	E3	6.7	92	0.00	2.58-	2.64
31	AR1016-B	593.289	651.096	E3	-9.7	112	0.00	2.98-	3.04
32	AR1016-C	1.230	1.249	E6	-1.5	102	0.00	3.49-	3.55
33	AR1016-D	542.084	614.662	E3	-13.4	113	0.00	3.64-	3.70
34	AR1016-E	369.060	383.417	E3	-3.9	106	0.00	4.16-	4.22
35	AR1260-A	877.166	823.538	E3	6.1	99	0.00	5.98-	6.04
36	AR1260-B	1.191	1.349	E6	-13.3	115	0.00	6.42-	6.48
37	AR1260-C	703.487	804.602	E3	-14.4	118	0.00	6.90-	6.96
38	AR1260-D	1.584	1.874	E6	-18.3#	120	0.00	7.24-	7.30
39	AR1260-E	1.070	1.148	E6	-7.3	110	0.00	7.70-	7.76
40	AR1262-A								
41	AR1262-B								
42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								

9.8.13  
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# Continuing Calibration Summary

Page 3 of 3

Job Number: JA58750

Sample: G3G1851-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50321.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

49	AR1268-E	-----NA-----
50 S	Decachlorobiphenyl	13.667 16.260 E6 -19.0# 122 0.00 9.20- 9.26

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3G49428.D PCB1826.M

Wed Oct 27 08:39:31 2010 GC3G

9.8.13



## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: G3G1851-ECC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50332.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1851\3G50332.D\ECD1A.CH Vial: 56  
 Signal #2 : C:\MSDCHEM\1\DATA\1851\3G50332.D\ECD2B.CH  
 Acq On : 10-27-2010 02:43:05 AM Operator: toyar  
 Sample : Ecc1826-1000 Inst : GC3G  
 Misc : OP46353,g3g1851,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Oct 26 15:14:51 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	25.058	25.260 E6	-0.8	99	0.00	2.27- 2.33
2	AR1221-A			-----NA-----			
3	AR1221-B			-----NA-----			
4	AR1221-C			-----NA-----			
5	AR1221-D			-----NA-----			
6	AR1221-E			-----NA-----			
7	AR1232-A			-----NA-----			
8	AR1232-B			-----NA-----			
9	AR1232-C			-----NA-----			
10	AR1232-D			-----NA-----			
11	AR1232-E			-----NA-----			
12	AR1242-A			-----NA-----			
13	AR1242-B			-----NA-----			
14	AR1242-C			-----NA-----			
15	AR1242-D			-----NA-----			
16	AR1242-E			-----NA-----			
17	AR1248-A			-----NA-----			
18	AR1248-B			-----NA-----			
19	AR1248-C			-----NA-----			
20	AR1248-D			-----NA-----			
21	AR1248-E			-----NA-----			
22	AR1248-F			-----NA-----			
23	AR1254-A			-----NA-----			
24	AR1254-B			-----NA-----			
25	AR1254-C			-----NA-----			
26	AR1254-D			-----NA-----			
27	AR1254-E			-----NA-----			
28	AR1254-F			-----NA-----			
29	AR1254-G			-----NA-----			
30	AR1016-A	482.617	443.787 E3	8.0	94	0.00	2.63- 2.69
31	AR1016-B	865.609	868.670 E3	-0.4	102	0.00	2.99- 3.05
32	AR1016-C	2.004	1.949 E6	2.7	97	0.00	3.52- 3.58
33	AR1016-D	753.110	738.530 E3	1.9	99	0.00	3.68- 3.74
34	AR1016-E	766.132	781.993 E3	-2.1	102	0.00	4.14- 4.20
35	AR1260-A	1.759	1.899 E6	-8.0	106	0.00	5.99- 6.05
36	AR1260-B	1.867	2.038 E6	-9.2	107	0.00	6.35- 6.41
37	AR1260-C	1.143	1.241 E6	-8.6	108	0.00	6.80- 6.86
38	AR1260-D	2.863	3.530 E6	-23.3#	120	0.00	7.20- 7.26
39	AR1260-E	1.869	2.075 E6	-11.0	110	0.00	7.57- 7.63
40	AR1262-A			-----NA-----			
41	AR1262-B			-----NA-----			

9.8.14  
9

# Continuing Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: G3G1851-ECC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50332.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								
49	AR1268-E								
50 S	Decachlorobiphenyl	23.633	25.673 E6	-8.6	108	0.00	8.99-	9.05	

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	18.440	18.299 E6	0.8	99	0.00	2.12-	2.18	
2	AR1221-A								
3	AR1221-B								
4	AR1221-C								
5	AR1221-D								
6	AR1221-E								
7	AR1232-A								
8	AR1232-B								
9	AR1232-C								
10	AR1232-D								
11	AR1232-E								
12	AR1242-A								
13	AR1242-B								
14	AR1242-C								
15	AR1242-D								
16	AR1242-E								
17	AR1248-A								
18	AR1248-B								
19	AR1248-C								
20	AR1248-D								
21	AR1248-E								
22	AR1248-F								
23	AR1254-A								
24	AR1254-B								
25	AR1254-C								
26	AR1254-D								
27	AR1254-E								
28	AR1254-F								
29	AR1254-G								
30	AR1016-A	301.470	265.233 E3	12.0	90	0.00	2.57-	2.63	
31	AR1016-B	593.289	592.266 E3	0.2	102	0.00	2.98-	3.04	
32	AR1016-C	1.230	1.193 E6	3.0	95	0.00	3.49-	3.55	
33	AR1016-D	542.084	576.894 E3	-6.4	107	0.00	3.63-	3.69	
34	AR1016-E	369.060	365.372 E3	1.0	100	0.00	4.16-	4.22	
35	AR1260-A	877.166	872.832 E3	0.5	99	0.00	5.98-	6.04	
36	AR1260-B	1.191	1.250 E6	-5.0	104	0.00	6.42-	6.48	
37	AR1260-C	703.487	749.229 E3	-6.5	107	0.00	6.90-	6.96	
38	AR1260-D	1.584	1.762 E6	-11.2	109	0.00	7.24-	7.30	
39	AR1260-E	1.070	1.063 E6	0.7	99	0.00	7.70-	7.76	
40	AR1262-A								
41	AR1262-B								
42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								

9.8.14 9

## Page 3 of 3

**Sample:** G3G1851-ECC1826

**Lab FileID:** 3G50332.D

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

49	AR1268-E				-----NA-----			
50 S	Decachlorobiphenyl	13.667	15.018 E6	-9.9	111	0.00	9.20-	9.25

SPCC's out = 0   CCC's out = 0

Wed Oct 27 08:35:45 2010 GC3G

## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: G3G1852-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50345.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1852\3G50345.D\ECD1A.CH Vial: 69  
Signal #2 : C:\MSDCHEM\1\DATA\1852\3G50345.D\ECD2B.CH  
Acq On : 27 Oct 2010 11:30 am Operator: toyar  
Sample : cc1826-1000 Inst : GC3G  
Misc : OP46256,g3g1852,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Tue Oct 26 15:14:51 2010  
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT	Window
1 S	Tetrachloro-m-xylene	25.058	25.820 E6	-3.0	102	0.00	2.26-	2.32
2	AR1221-A			-----NA-----				
3	AR1221-B			-----NA-----				
4	AR1221-C			-----NA-----				
5	AR1221-D			-----NA-----				
6	AR1221-E			-----NA-----				
7	AR1232-A			-----NA-----				
8	AR1232-B			-----NA-----				
9	AR1232-C			-----NA-----				
10	AR1232-D			-----NA-----				
11	AR1232-E			-----NA-----				
12	AR1242-A			-----NA-----				
13	AR1242-B			-----NA-----				
14	AR1242-C			-----NA-----				
15	AR1242-D			-----NA-----				
16	AR1242-E			-----NA-----				
17	AR1248-A			-----NA-----				
18	AR1248-B			-----NA-----				
19	AR1248-C			-----NA-----				
20	AR1248-D			-----NA-----				
21	AR1248-E			-----NA-----				
22	AR1248-F			-----NA-----				
23	AR1254-A			-----NA-----				
24	AR1254-B			-----NA-----				
25	AR1254-C			-----NA-----				
26	AR1254-D			-----NA-----				
27	AR1254-E			-----NA-----				
28	AR1254-F			-----NA-----				
29	AR1254-G			-----NA-----				
30	AR1016-A	482.617	494.675 E3	-2.5	105	0.00	2.62-	2.68
31	AR1016-B	865.609	907.060 E3	-4.8	106	0.00	2.99-	3.05
32	AR1016-C	2.004	2.089 E6	-4.2	104	0.00	3.52-	3.58
33	AR1016-D	753.110	790.142 E3	-4.9	106	0.00	3.67-	3.73
34	AR1016-E	766.132	817.538 E3	-6.7	107	0.00	4.14-	4.20
35	AR1260-A	1.759	1.878 E6	-6.8	105	0.00	5.99-	6.05
36	AR1260-B	1.867	1.917 E6	-2.7	101	0.00	6.34-	6.40
37	AR1260-C	1.143	1.125 E6	1.6	98	0.00	6.80-	6.86
38	AR1260-D	2.863	3.190 E6	-11.4	108	0.00	7.20-	7.26
39	AR1260-E	1.869	1.982 E6	-6.0	105	0.00	7.57-	7.63
40	AR1262-A			-----NA-----				
41	AR1262-B			-----NA-----				

9.8.15





# Continuing Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: G3G1852-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50345.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								
49	AR1268-E								
50 S	Decachlorobiphenyl	23.633	24.697 E6	-4.5	104	0.00	8.99-	9.05	

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	18.440	18.778 E6	-1.8	101	0.00	2.12-	2.18	
2	AR1221-A								
3	AR1221-B								
4	AR1221-C								
5	AR1221-D								
6	AR1221-E								
7	AR1232-A								
8	AR1232-B								
9	AR1232-C								
10	AR1232-D								
11	AR1232-E								
12	AR1242-A								
13	AR1242-B								
14	AR1242-C								
15	AR1242-D								
16	AR1242-E								
17	AR1248-A								
18	AR1248-B								
19	AR1248-C								
20	AR1248-D								
21	AR1248-E								
22	AR1248-F								
23	AR1254-A								
24	AR1254-B								
25	AR1254-C								
26	AR1254-D								
27	AR1254-E								
28	AR1254-F								
29	AR1254-G								
30	AR1016-A	301.470	292.494 E3	3.0	99	0.00	2.57-	2.63	
31	AR1016-B	593.289	605.959 E3	-2.1	104	0.00	2.97-	3.03	
32	AR1016-C	1.230	1.259 E6	-2.4	100	0.00	3.48-	3.54	
33	AR1016-D	542.084	574.129 E3	-5.9	107	0.00	3.63-	3.69	
34	AR1016-E	369.060	378.794 E3	-2.6	104	0.00	4.16-	4.22	
35	AR1260-A	877.166	923.079 E3	-5.2	104	0.00	5.98-	6.04	
36	AR1260-B	1.191	1.240 E6	-4.1	103	0.00	6.42-	6.48	
37	AR1260-C	703.487	749.390 E3	-6.5	107	0.00	6.90-	6.96	
38	AR1260-D	1.584	1.757 E6	-10.9	108	0.00	7.24-	7.30	
39	AR1260-E	1.070	1.077 E6	-0.7	100	0.00	7.70-	7.76	
40	AR1262-A								
41	AR1262-B								
42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								

9.8.15 9

# Continuing Calibration Summary

Page 3 of 3

Job Number: JA58750

Sample: G3G1852-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50345.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

49	AR1268-E					-----NA-----		
50 S	Decachlorobiphenyl	13.667	14.189	E6	-3.8	105	-0.01	9.19- 9.25

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3G49429.D PCB1826.M

Wed Oct 27 11:49:56 2010 GC3G

9.8.15  
9

## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: G3G1852-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50356.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1852\3G50356.D\ECD1A.CH Vial: 80  
 Signal #2 : C:\MSDCHEM\1\DATA\1852\3G50356.D\ECD2B.CH  
 Acq On : 10-27-2010 03:47:51 PM Operator: toyar  
 Sample : cc1826-500 Inst : GC3G  
 Misc : OP46353,g3g1852,17.1,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Oct 26 15:14:51 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	25.058	24.335 E6	2.9	98	0.00	2.27- 2.33
2	AR1221-A			-----NA-----			
3	AR1221-B			-----NA-----			
4	AR1221-C			-----NA-----			
5	AR1221-D			-----NA-----			
6	AR1221-E			-----NA-----			
7	AR1232-A			-----NA-----			
8	AR1232-B			-----NA-----			
9	AR1232-C			-----NA-----			
10	AR1232-D			-----NA-----			
11	AR1232-E			-----NA-----			
12	AR1242-A			-----NA-----			
13	AR1242-B			-----NA-----			
14	AR1242-C			-----NA-----			
15	AR1242-D			-----NA-----			
16	AR1242-E			-----NA-----			
17	AR1248-A			-----NA-----			
18	AR1248-B			-----NA-----			
19	AR1248-C			-----NA-----			
20	AR1248-D			-----NA-----			
21	AR1248-E			-----NA-----			
22	AR1248-F			-----NA-----			
23	AR1254-A			-----NA-----			
24	AR1254-B			-----NA-----			
25	AR1254-C			-----NA-----			
26	AR1254-D			-----NA-----			
27	AR1254-E			-----NA-----			
28	AR1254-F			-----NA-----			
29	AR1254-G			-----NA-----			
30	AR1016-A	482.617	456.445 E3	5.4	97	0.00	2.63- 2.69
31	AR1016-B	865.609	846.273 E3	2.2	100	0.00	3.00- 3.06
32	AR1016-C	2.004	1.928 E6	3.8	97	0.00	3.52- 3.58
33	AR1016-D	753.110	723.929 E3	3.9	99	0.00	3.68- 3.74
34	AR1016-E	766.132	757.184 E3	1.2	100	0.00	4.15- 4.21
35	AR1260-A	1.759	1.600 E6	9.0	91	0.00	6.00- 6.06
36	AR1260-B	1.867	1.732 E6	7.2	98	0.00	6.35- 6.41
37	AR1260-C	1.143	1.046 E6	8.5	94	0.00	6.81- 6.87
38	AR1260-D	2.863	2.926 E6	-2.2	101	0.00	7.21- 7.27
39	AR1260-E	1.869	1.727 E6	7.6	94	0.00	7.57- 7.63
40	AR1262-A			-----NA-----			
41	AR1262-B			-----NA-----			

9.8.16

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# Continuing Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: G3G1852-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50356.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								
49	AR1268-E								
50 S	Decachlorobiphenyl	23.633	19.611	E6	17.0#	84	0.00	8.99-	9.05

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	18.440	17.605	E6	4.5	96	0.00	2.13-	2.19
2	AR1221-A								
3	AR1221-B								
4	AR1221-C								
5	AR1221-D								
6	AR1221-E								
7	AR1232-A								
8	AR1232-B								
9	AR1232-C								
10	AR1232-D								
11	AR1232-E								
12	AR1242-A								
13	AR1242-B								
14	AR1242-C								
15	AR1242-D								
16	AR1242-E								
17	AR1248-A								
18	AR1248-B								
19	AR1248-C								
20	AR1248-D								
21	AR1248-E								
22	AR1248-F								
23	AR1254-A								
24	AR1254-B								
25	AR1254-C								
26	AR1254-D								
27	AR1254-E								
28	AR1254-F								
29	AR1254-G								
30	AR1016-A	301.470	297.093	E3	1.5	97	0.00	2.57-	2.63
31	AR1016-B	593.289	577.516	E3	2.7	99	0.00	2.98-	3.04
32	AR1016-C	1.230	1.176	E6	4.4	96	0.00	3.49-	3.55
33	AR1016-D	542.084	538.305	E3	0.7	99	0.00	3.63-	3.69
34	AR1016-E	369.060	347.721	E3	5.8	96	0.00	4.16-	4.22
35	AR1260-A	877.166	877.816	E3	-0.1	105	0.00	5.99-	6.05
36	AR1260-B	1.191	1.143	E6	4.0	97	0.00	6.42-	6.48
37	AR1260-C	703.487	660.129	E3	6.2	96	0.00	6.91-	6.97
38	AR1260-D	1.584	1.490	E6	5.9	95	0.00	7.24-	7.30
39	AR1260-E	1.070	0.973	E6	9.1	93	0.00	7.70-	7.76
40	AR1262-A								
41	AR1262-B								
42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								

9.8.16 9

## Page 3 of 3

**Sample:** G3G1852-CC1826

**Lab FileID:** 3G50356.D

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

49	AR1268-E				-----NA-----			
50 S	Decachlorobiphenyl	13.667	12.170 E6	11.0	91	0.00	9.20-	9.26

(#) = Out of Range

SPCC's out = 0   CCC's out = 0

3G49428.D PCB1826.M

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Wed Oct 27 16:22:01 2010      GC3G

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## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: G3G1852-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50376.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1852\3G50376.D\ECD1A.CH Vial: 20  
Signal #2 : C:\MSDCHEM\1\DATA\1852\3G50376.D\ECD2B.CH  
Acq On : 27 Oct 2010 10:19 pm Operator: toyar  
Sample : CC1826-500 Inst : GC3G  
Misc : OP46361,g3g1852,910,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
Title :  
Last Update : Tue Oct 26 15:14:51 2010  
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	25.058	22.572 E6	9.9	91	0.00	2.27- 2.33
2	AR1221-A			-----NA-----			
3	AR1221-B			-----NA-----			
4	AR1221-C			-----NA-----			
5	AR1221-D			-----NA-----			
6	AR1221-E			-----NA-----			
7	AR1232-A			-----NA-----			
8	AR1232-B			-----NA-----			
9	AR1232-C			-----NA-----			
10	AR1232-D			-----NA-----			
11	AR1232-E			-----NA-----			
12	AR1242-A			-----NA-----			
13	AR1242-B			-----NA-----			
14	AR1242-C			-----NA-----			
15	AR1242-D			-----NA-----			
16	AR1242-E			-----NA-----			
17	AR1248-A			-----NA-----			
18	AR1248-B			-----NA-----			
19	AR1248-C			-----NA-----			
20	AR1248-D			-----NA-----			
21	AR1248-E			-----NA-----			
22	AR1248-F			-----NA-----			
23	AR1254-A			-----NA-----			
24	AR1254-B			-----NA-----			
25	AR1254-C			-----NA-----			
26	AR1254-D			-----NA-----			
27	AR1254-E			-----NA-----			
28	AR1254-F			-----NA-----			
29	AR1254-G			-----NA-----			
30	AR1016-A	482.617	443.432 E3	8.1	94	0.00	2.63- 2.69
31	AR1016-B	865.609	824.968 E3	4.7	97	0.00	3.00- 3.06
32	AR1016-C	2.004	1.867 E6	6.8	94	0.00	3.52- 3.58
33	AR1016-D	753.110	712.913 E3	5.3	97	0.00	3.68- 3.74
34	AR1016-E	766.132	767.217 E3	-0.1	102	0.00	4.15- 4.21
35	AR1260-A	1.759	1.770 E6	-0.6	101	0.00	6.00- 6.06
36	AR1260-B	1.867	1.724 E6	7.7	98	0.00	6.35- 6.41
37	AR1260-C	1.143	1.158 E6	-1.3	104	0.00	6.81- 6.87
38	AR1260-D	2.863	3.389 E6	-18.4#	117	0.00	7.21- 7.27
39	AR1260-E	1.869	1.935 E6	-3.5	105	0.00	7.58- 7.64
40	AR1262-A			-----NA-----			
41	AR1262-B			-----NA-----			

9.8.17  
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# Continuing Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: G3G1852-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50376.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								
49	AR1268-E								
50 S	Decachlorobiphenyl	23.633	23.252 E6	1.6	99	0.00	8.99-	9.05	

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	18.440	17.420 E6	5.5	95	0.00	2.12-	2.18	
2	AR1221-A								
3	AR1221-B								
4	AR1221-C								
5	AR1221-D								
6	AR1221-E								
7	AR1232-A								
8	AR1232-B								
9	AR1232-C								
10	AR1232-D								
11	AR1232-E								
12	AR1242-A								
13	AR1242-B								
14	AR1242-C								
15	AR1242-D								
16	AR1242-E								
17	AR1248-A								
18	AR1248-B								
19	AR1248-C								
20	AR1248-D								
21	AR1248-E								
22	AR1248-F								
23	AR1254-A								
24	AR1254-B								
25	AR1254-C								
26	AR1254-D								
27	AR1254-E								
28	AR1254-F								
29	AR1254-G								
30	AR1016-A	301.470	295.976 E3	1.8	97	0.00	2.57-	2.63	
31	AR1016-B	593.289	567.568 E3	4.3	97	0.00	2.98-	3.04	
32	AR1016-C	1.230	1.127 E6	8.4	92	0.00	3.49-	3.55	
33	AR1016-D	542.084	559.021 E3	-3.1	103	0.00	3.63-	3.69	
34	AR1016-E	369.060	348.608 E3	5.5	97	0.00	4.16-	4.22	
35	AR1260-A	877.166	813.860 E3	7.2	97	0.00	5.99-	6.05	
36	AR1260-B	1.191	1.228 E6	-3.1	105	0.00	6.42-	6.48	
37	AR1260-C	703.487	724.541 E3	-3.0	106	0.00	6.91-	6.97	
38	AR1260-D	1.584	1.683 E6	-6.2	107	0.00	7.25-	7.31	
39	AR1260-E	1.070	1.008 E6	5.8	97	0.00	7.70-	7.76	
40	AR1262-A								
41	AR1262-B								
42	AR1262-C								
43	AR1262-D								
44	AR1262-E								
45	AR1268-A								
46	AR1268-B								
47	AR1268-C								
48	AR1268-D								

9.8.17  
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# Continuing Calibration Summary

Page 3 of 3

Job Number: JA58750

Sample: G3G1852-CC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50376.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

49	AR1268-E	-----NA-----
50 S	Decachlorobiphenyl	13.667 13.871 E6 -1.5 104 0.00 9.20- 9.26

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3G49428.D PCB1826.M

Thu Oct 28 09:06:36 2010 GC3G

9.8.17

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## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: G3G1852-ECC1826

Account: ENSRMAA AECOM, INC.

Lab FileID: 3G50387.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\1852\3G50387.D\ECD1A.CH Vial: 31  
 Signal #2 : C:\MSDCHEM\1\DATA\1852\3G50387.D\ECD2B.CH  
 Acq On : 10-28-2010 01:35:50 AM Operator: toyar  
 Sample : ECC1826-1000 Inst : GC3G  
 Misc : OP46353,g3g1852,17.3,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB1826.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Oct 26 15:14:51 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT	Window
1 S	Tetrachloro-m-xylene	25.058	22.379 E6	10.7	88	0.00	2.27-	2.33
2	AR1221-A			-----NA-----				
3	AR1221-B			-----NA-----				
4	AR1221-C			-----NA-----				
5	AR1221-D			-----NA-----				
6	AR1221-E			-----NA-----				
7	AR1232-A			-----NA-----				
8	AR1232-B			-----NA-----				
9	AR1232-C			-----NA-----				
10	AR1232-D			-----NA-----				
11	AR1232-E			-----NA-----				
12	AR1242-A			-----NA-----				
13	AR1242-B			-----NA-----				
14	AR1242-C			-----NA-----				
15	AR1242-D			-----NA-----				
16	AR1242-E			-----NA-----				
17	AR1248-A			-----NA-----				
18	AR1248-B			-----NA-----				
19	AR1248-C			-----NA-----				
20	AR1248-D			-----NA-----				
21	AR1248-E			-----NA-----				
22	AR1248-F			-----NA-----				
23	AR1254-A			-----NA-----				
24	AR1254-B			-----NA-----				
25	AR1254-C			-----NA-----				
26	AR1254-D			-----NA-----				
27	AR1254-E			-----NA-----				
28	AR1254-F			-----NA-----				
29	AR1254-G			-----NA-----				
30	AR1016-A	482.617	431.373 E3	10.6	92	0.00	2.63-	2.69
31	AR1016-B	865.609	812.526 E3	6.1	95	0.00	3.00-	3.06
32	AR1016-C	2.004	1.876 E6	6.4	93	0.00	3.52-	3.58
33	AR1016-D	753.110	707.635 E3	6.0	95	0.00	3.68-	3.74
34	AR1016-E	766.132	752.250 E3	1.8	98	0.00	4.15-	4.21
35	AR1260-A	1.759	1.761 E6	-0.1	98	0.00	6.00-	6.06
36	AR1260-B	1.867	1.920 E6	-2.8	101	0.00	6.35-	6.41
37	AR1260-C	1.143	1.144 E6	-0.1	100	0.00	6.81-	6.87
38	AR1260-D	2.863	3.318 E6	-15.9#	113	0.00	7.21-	7.27
39	AR1260-E	1.869	1.918 E6	-2.6	101	0.01	7.58-	7.64
40	AR1262-A			-----NA-----				
41	AR1262-B			-----NA-----				

9.8.18



## Page 2 of 3

**Sample:** G3G1852-ECC1826

**Lab FileID:** 3G50387.D

END INDEX: 00000000

\*\*\*\*\* Signal #2 \*\*\*\*\*

**9.8.18**

## Page 3 of 3

**Sample:** G3G1852-ECC1826

**Lab FileID:** 3G50387.D

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

49	AR1268-E				-----NA-----			
50 S	Decachlorobiphenyl	13.667	14.181	E6	-3.8	105	0.00	9.20- 9.26

(#) = Out of Range

SPCC's out = 0   CCC's out = 0

3G49429.D PCB1826.M

Thu Oct 28 09:10:21 2010 GC3G

## 9.8.18

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## Initial Calibration Summary

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: GOA2389-ICC2389

Lab FileID: OA68333.D

Page 1 of 3

### Response Factor Report GCOA

Method : C:\MSDCHEM\1\METHODS\PCB2389.M (Chemstation Integrator)  
 Title : PCB  
 Last Update : Wed Nov 03 09:31:37 2010  
 Response via : Initial Calibration

#### Calibration Files

50 =OA68330.D 250 =OA68331.D 500 =OA68332.D 1000=OA68333.D  
 2000 =OA68334.D 3000 =OA68335.D

	Compound	50	250	500	1000	2000	3000	Avg	%RSD
1) S	Tetrachloro-m-xylen	2.414	2.051	1.906	1.829	1.757	1.725	1.947 E7	13.19
2)	AR1221-A				4.421			4.421 E4	0.00
3)	AR1221-B				1.830			1.830 E5	0.00
4)	AR1221-C				1.128			1.128 E5	0.00
5)	AR1221-D				4.113			4.113 E5	0.00
6)	AR1221-E				8.090			8.090 E4	0.00
7)	AR1232-A				3.842			3.842 E5	0.00
8)	AR1232-B				3.034			3.034 E5	0.00
9)	AR1232-C				5.893			5.893 E5	0.00
10)	AR1232-D				2.543			2.543 E5	0.00
11)	AR1232-E				1.737			1.737 E5	0.00
12)	AR1232-F				3.759			3.759 E5	0.00
13)	AR1242-A				5.069			5.069 E5	0.00
14)	AR1242-B				1.046			1.046 E6	0.00
15)	AR1242-C				4.353			4.353 E5	0.00
16)	AR1242-D				2.829			2.829 E5	0.00
17)	AR1242-E				4.270			4.270 E5	0.00
18)	AR1242-F				7.376			7.376 E5	0.00
19)	AR1248-A				6.561			6.561 E5	0.00
20)	AR1248-B				4.136			4.136 E5	0.00
21)	AR1248-C				5.347			5.347 E5	0.00
22)	AR1248-D				6.371			6.371 E5	0.00
23)	AR1248-E				1.325			1.325 E6	0.00
24)	AR1248-F				7.485			7.485 E5	0.00
25)	AR1254-A				8.760			8.760 E5	0.00
26)	AR1254-B				6.564			6.564 E5	0.00
27)	AR1254-C				5.838			5.838 E5	0.00
28)	AR1254-D				1.029			1.029 E6	0.00
29)	AR1254-E				7.147			7.147 E5	0.00
30)	AR1254-F				6.714			6.714 E5	0.00
31)	AR1254-G				1.047			1.047 E6	0.00
32)	AR1016-A	8.794	7.182	6.592	6.262	5.402	5.223	6.576 E5	19.94
33)	AR1016-B	1.609	1.339	1.288	1.242	1.166	1.149	1.299 E6	12.94
34)	AR1016-C	7.235	5.948	5.551	5.142	4.712	4.592	5.530 E5	17.68
35)	AR1016-D	5.516	4.401	4.128	3.865	3.526	3.417	4.142 E5	18.51
36)	AR1016-E	7.137	5.707	5.322	4.936	4.478	4.324	5.317 E5	19.36
37)	AR1260-A	1.563	1.276	1.217	1.179	1.112	1.085	1.239 E6	13.99
38)	AR1260-B	9.130	7.606	7.159	6.829	6.406	6.276	7.234 E5	14.50
39)	AR1260-C	9.426	7.854	7.454	7.153	6.749	6.660	7.549 E5	13.52
40)	AR1260-D	2.039	1.773	1.743	1.708	1.653	1.639	1.759 E6	8.32
41)	AR1260-E	1.121	0.941	0.910	0.878	0.839	0.832	0.920 E6	11.60
42)	AR1262-A				8.778			8.778 E5	0.00
43)	AR1262-B				1.053			1.053 E6	0.00
44)	AR1262-C				2.062			2.062 E6	0.00
45)	AR1262-D				9.026			9.026 E5	0.00
46)	AR1262-E				7.633			7.633 E5	0.00
47)	AR1268-A				2.293			2.293 E6	0.00

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# Initial Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: GOA2389-ICC2389

Account: ENSRMAA AECOM, INC.

Lab FileID: OA68333.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

48)	AR1268-B								2.410	E6	0.00
49)	AR1268-C								1.767	E6	0.00
50)	AR1268-D								7.460	E5	0.00
51)	AR1268-E								5.061	E6	0.00
52) S	Decachlorobiphenyl	2.160	1.810	1.695	1.616	1.546	1.528		1.726	E7	13.71

Signal #2

1) S	Tetrachloro-m-xylene	8.186	7.410	7.032	6.937	6.830	6.853		7.208	E6	7.26
2)	AR1221-A				1.436				1.436	E4	0.00
3)	AR1221-B				6.227				6.227	E4	0.00
4)	AR1221-C				4.303				4.303	E4	0.00
5)	AR1221-D				1.635				1.635	E5	0.00
6)	AR1221-E				2.831				2.831	E4	0.00
7)	AR1232-A				1.507				1.507	E5	0.00
8)	AR1232-B				9.292				9.292	E4	0.00
9)	AR1232-C				2.211				2.211	E5	0.00
10)	AR1232-D				1.021				1.021	E5	0.00
11)	AR1232-E				8.568				8.568	E4	0.00
12)	AR1232-F				7.937				7.937	E4	0.00
13)	AR1242-A				1.607				1.607	E5	0.00
14)	AR1242-B				3.949				3.949	E5	0.00
15)	AR1242-C				1.790				1.790	E5	0.00
16)	AR1242-D				1.472				1.472	E5	0.00
17)	AR1242-E				1.958				1.958	E5	0.00
18)	AR1242-F				1.576				1.576	E5	0.00
19)	AR1248-A				2.482				2.482	E5	0.00
20)	AR1248-B				1.310				1.310	E5	0.00
21)	AR1248-C				2.608				2.608	E5	0.00
22)	AR1248-D				2.673				2.673	E5	0.00
23)	AR1248-E				2.582				2.582	E5	0.00
24)	AR1248-F				1.858				1.858	E5	0.00
25)	AR1254-A				3.587				3.587	E5	0.00
26)	AR1254-B				2.678				2.678	E5	0.00
27)	AR1254-C				2.282				2.282	E5	0.00
28)	AR1254-D				4.974				4.974	E5	0.00
29)	AR1254-E				5.274				5.274	E5	0.00
30)	AR1254-F				3.155				3.155	E5	0.00
31)	AR1254-G				6.254				6.254	E5	0.00
32)	AR1016-A	2.278	2.000	1.931	1.865	1.737	1.706		1.920	E5	10.86
33)	AR1016-B	5.668	4.902	4.739	4.626	4.395	4.341		4.778	E5	10.12
34)	AR1016-C	2.626	2.262	2.183	2.099	1.953	1.954		2.180	E5	11.50
35)	AR1016-D	2.549	2.095	2.020	1.964	1.831	1.800		2.043	E5	13.32
36)	AR1016-E	2.650	2.344	2.257	2.201	2.058	2.017		2.255	E5	10.16
37)	AR1260-A	8.063	7.103	6.906	6.886	6.490	6.417		6.977	E5	8.50
38)	AR1260-B	7.173	6.436	6.245	6.210	5.890	5.825		6.296	E5	7.73
39)	AR1260-C	5.517	5.160	4.967	4.880	4.639	4.563		4.954	E5	7.09
40)	AR1260-D	1.693	1.568	1.572	1.576	1.519	1.516		1.574	E6	4.08
41)	AR1260-E	1.124	1.023	1.012	1.021	0.977	0.973		1.022	E6	5.35
42)	AR1262-A				5.527				5.527	E5	0.00
43)	AR1262-B				9.508				9.508	E5	0.00
44)	AR1262-C				1.915				1.915	E6	0.00
45)	AR1262-D				1.223				1.223	E6	0.00
46)	AR1262-E				6.035				6.035	E5	0.00
47)	AR1268-A				2.079				2.079	E6	0.00
48)	AR1268-B				2.022				2.022	E6	0.00
49)	AR1268-C				1.522				1.522	E6	0.00
50)	AR1268-D				5.865				5.865	E5	0.00
51)	AR1268-E				3.927				3.927	E6	0.00
52) S	Decachlorobiphenyl	1.335	1.176	1.112	1.094	1.074	1.063		1.142	E7	8.96

9.8.19

9

## Initial Calibration Summary

Page 3 of 3

**Job Number:** JA58750

**Sample:** GOA2389-ICC2389

**Account:** ENSRMAA AECOM, INC.

**Lab FileID:** OA68333.D

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

-----  
(#) = Out of Range

PCB2389.M

Wed Nov 03 09:39:06 2010

RPT1

9.8.19

9

## Initial Calibration Verification

Page 1 of 3

Job Number: JA58750

Sample: GOA2389-ICV2389

Account: ENSRMAA AECOM, INC.

Lab FileID: OA68336.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\2389\OA68336.D\ECD1A.CH Vial: 16  
 Signal #2 : C:\MSDCHEM\1\DATA\2389\OA68336.D\ECD2B.CH  
 Acq On : 11-2-10 05:56:59 PM Operator: annaz  
 Sample : icv2389-1000 Inst : GCOA  
 Misc : OP46466,GOA2389,500,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB2389.M (Chemstation Integrator)  
 Title : PCB  
 Last Update : Wed Nov 03 09:31:37 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT	Window
1 S	Tetrachloro-m-xylene			-----NA-----				
2	AR1221-A			-----NA-----				
3	AR1221-B			-----NA-----				
4	AR1221-C			-----NA-----				
5	AR1221-D			-----NA-----				
6	AR1221-E			-----NA-----				
7	AR1232-A			-----NA-----				
8	AR1232-B			-----NA-----				
9	AR1232-C			-----NA-----				
10	AR1232-D			-----NA-----				
11	AR1232-E			-----NA-----				
12	AR1232-F			-----NA-----				
13	AR1242-A			-----NA-----				
14	AR1242-B			-----NA-----				
15	AR1242-C			-----NA-----				
16	AR1242-D			-----NA-----				
17	AR1242-E			-----NA-----				
18	AR1242-F			-----NA-----				
19	AR1248-A			-----NA-----				
20	AR1248-B			-----NA-----				
21	AR1248-C			-----NA-----				
22	AR1248-D			-----NA-----				
23	AR1248-E			-----NA-----				
24	AR1248-F			-----NA-----				
25	AR1254-A			-----NA-----				
26	AR1254-B			-----NA-----				
27	AR1254-C			-----NA-----				
28	AR1254-D			-----NA-----				
29	AR1254-E			-----NA-----				
30	AR1254-F			-----NA-----				
31	AR1254-G			-----NA-----				
32	AR1016-A	657.591	616.664 E3	6.2	98	0.00	3.45-	3.52
33	AR1016-B	1.299	1.206 E6	7.2	97	0.00	4.18-	4.24
34	AR1016-C	553.008	500.967 E3	9.4	97	0.00	4.31-	4.38
35	AR1016-D	414.209	373.783 E3	9.8	97	0.00	5.09-	5.15
36	AR1016-E	531.745	465.183 E3	12.5	94	0.00	5.30-	5.37
37	AR1260-A	1.239	1.086 E6	12.3	92	0.00	8.02-	8.08
38	AR1260-B	723.447	656.527 E3	9.3	96	0.00	8.86-	8.92
39	AR1260-C	754.939	693.930 E3	8.1	97	0.00	9.34-	9.40
40	AR1260-D	1.759	1.670 E6	5.1	98	0.00	9.95-	10.01
41	AR1260-E	0.920	0.860 E6	6.5	98	0.00	10.51-	10.57

9.8.20  
9

# Initial Calibration Verification

Page 2 of 3

Job Number: JA58750

Sample: GOA2389-ICV2389

Account: ENSRMAA AECOM, INC.

Lab FileID: OA68336.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-A	-----NA-----
43	AR1262-B	-----NA-----
44	AR1262-C	-----NA-----
45	AR1262-D	-----NA-----
46	AR1262-E	-----NA-----
47	AR1268-A	-----NA-----
48	AR1268-B	-----NA-----
49	AR1268-C	-----NA-----
50	AR1268-D	-----NA-----
51	AR1268-E	-----NA-----
52 S	Decachlorobiphenyl	-----NA-----

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	-----NA-----
2	AR1221-A	-----NA-----
3	AR1221-B	-----NA-----
4	AR1221-C	-----NA-----
5	AR1221-D	-----NA-----
6	AR1221-E	-----NA-----
7	AR1232-A	-----NA-----
8	AR1232-B	-----NA-----
9	AR1232-C	-----NA-----
10	AR1232-D	-----NA-----
11	AR1232-E	-----NA-----
12	AR1232-F	-----NA-----
13	AR1242-A	-----NA-----
14	AR1242-B	-----NA-----
15	AR1242-C	-----NA-----
16	AR1242-D	-----NA-----
17	AR1242-E	-----NA-----
18	AR1242-F	-----NA-----
19	AR1248-A	-----NA-----
20	AR1248-B	-----NA-----
21	AR1248-C	-----NA-----
22	AR1248-D	-----NA-----
23	AR1248-E	-----NA-----
24	AR1248-F	-----NA-----
25	AR1254-A	-----NA-----
26	AR1254-B	-----NA-----
27	AR1254-C	-----NA-----
28	AR1254-D	-----NA-----
29	AR1254-E	-----NA-----
30	AR1254-F	-----NA-----
31	AR1254-G	-----NA-----
32	AR1016-A	191.956 185.951 E3 3.1 100 0.00 3.66- 3.72
33	AR1016-B	477.832 456.368 E3 4.5 99 0.00 4.40- 4.46
34	AR1016-C	217.972 209.425 E3 3.9 100 0.00 4.62- 4.68
35	AR1016-D	204.311 192.938 E3 5.6 98 0.00 5.43- 5.49
36	AR1016-E	225.463 204.279 E3 9.4 93 0.00 5.60- 5.66
37	AR1260-A	697.739 655.122 E3 6.1 95 0.00 8.21- 8.27
38	AR1260-B	629.634 598.849 E3 4.9 96 0.00 9.00- 9.06
39	AR1260-C	495.432 471.148 E3 4.9 97 0.00 9.61- 9.67
40	AR1260-D	1.574 1.542 E6 2.0 98 0.00 10.22-10.28
41	AR1260-E	1.022 0.990 E6 3.1 97 0.00 10.92-10.98
42	AR1262-A	-----NA-----
43	AR1262-B	-----NA-----
44	AR1262-C	-----NA-----
45	AR1262-D	-----NA-----
46	AR1262-E	-----NA-----

9.8.20 9



# Initial Calibration Verification

Page 3 of 3

Job Number: JA58750

Sample: GOA2389-ICV2389

Account: ENSRMAA AECOM, INC.

Lab FileID: OA68336.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

47	AR1268-A	-----NA-----
48	AR1268-B	-----NA-----
49	AR1268-C	-----NA-----
50	AR1268-D	-----NA-----
51	AR1268-E	-----NA-----
52 S	Decachlorobiphenyl	-----NA-----

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

OA68333.D PCB2389.M

Wed Nov 03 09:39:04 2010 RPT1

9.8.20

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## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: GOA2391-CC2389

Account: ENSRMAA AECOM, INC.

Lab FileID: OA68380.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\2391\OA68380.D\ECD1A.CH Vial: 12  
Signal #2 : C:\MSDCHEM\1\DATA\2391\OA68380.D\ECD2B.CH  
Acq On : 11-3-10 03:12:28 PM Operator: annaz  
Sample : cc2389-500 Inst : GCOA  
Misc : OP46406,GOA2391,1000,,,10,1 Multiplr: 1.00  
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB2389.M (Chemstation Integrator)  
Title : PCB  
Last Update : Wed Nov 03 09:31:37 2010  
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.471	19.943 E6	-2.4	105	0.00	2.42- 2.49
2	AR1221-A			-----NA-----			
3	AR1221-B			-----NA-----			
4	AR1221-C			-----NA-----			
5	AR1221-D			-----NA-----			
6	AR1221-E			-----NA-----			
7	AR1232-A			-----NA-----			
8	AR1232-B			-----NA-----			
9	AR1232-C			-----NA-----			
10	AR1232-D			-----NA-----			
11	AR1232-E			-----NA-----			
12	AR1232-F			-----NA-----			
13	AR1242-A			-----NA-----			
14	AR1242-B			-----NA-----			
15	AR1242-C			-----NA-----			
16	AR1242-D			-----NA-----			
17	AR1242-E			-----NA-----			
18	AR1242-F			-----NA-----			
19	AR1248-A			-----NA-----			
20	AR1248-B			-----NA-----			
21	AR1248-C			-----NA-----			
22	AR1248-D			-----NA-----			
23	AR1248-E			-----NA-----			
24	AR1248-F			-----NA-----			
25	AR1254-A			-----NA-----			
26	AR1254-B			-----NA-----			
27	AR1254-C			-----NA-----			
28	AR1254-D			-----NA-----			
29	AR1254-E			-----NA-----			
30	AR1254-F			-----NA-----			
31	AR1254-G			-----NA-----			
32	AR1016-A	657.591	694.396 E3	-5.6	105	0.00	3.45- 3.52
33	AR1016-B	1.299	1.325 E6	-2.0	103	0.00	4.18- 4.24
34	AR1016-C	553.008	570.962 E3	-3.2	103	0.00	4.31- 4.38
35	AR1016-D	414.209	435.498 E3	-5.1	106	0.00	5.08- 5.14
36	AR1016-E	531.745	557.404 E3	-4.8	105	0.00	5.30- 5.37
37	AR1260-A	1.239	1.256 E6	-1.4	103	0.00	8.01- 8.07
38	AR1260-B	723.447	738.531 E3	-2.1	103	0.00	8.85- 8.91
39	AR1260-C	754.939	767.748 E3	-1.7	103	0.00	9.33- 9.39
40	AR1260-D	1.759	1.763 E6	-0.2	101	0.00	9.95-10.01
41	AR1260-E	0.920	0.901 E6	2.1	99	0.00	10.51-10.57

9.8.21



# Continuing Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: GOA2391-CC2389

Account: ENSRMAA AECOM, INC.

Lab FileID: OA68380.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-A								
43	AR1262-B								
44	AR1262-C								
45	AR1262-D								
46	AR1262-E								
47	AR1268-A								
48	AR1268-B								
49	AR1268-C								
50	AR1268-D								
51	AR1268-E								
52 S	Decachlorobiphenyl	17.258	17.198 E6	0.3	101	0.00	13.15-13.21		

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	7.208	7.309 E6	-1.4	104	0.00	2.39- 2.45		
2	AR1221-A								
3	AR1221-B								
4	AR1221-C								
5	AR1221-D								
6	AR1221-E								
7	AR1232-A								
8	AR1232-B								
9	AR1232-C								
10	AR1232-D								
11	AR1232-E								
12	AR1232-F								
13	AR1242-A								
14	AR1242-B								
15	AR1242-C								
16	AR1242-D								
17	AR1242-E								
18	AR1242-F								
19	AR1248-A								
20	AR1248-B								
21	AR1248-C								
22	AR1248-D								
23	AR1248-E								
24	AR1248-F								
25	AR1254-A								
26	AR1254-B								
27	AR1254-C								
28	AR1254-D								
29	AR1254-E								
30	AR1254-F								
31	AR1254-G								
32	AR1016-A	191.956	198.170 E3	-3.2	103	0.00	3.66- 3.72		
33	AR1016-B	477.832	483.890 E3	-1.3	102	0.00	4.40- 4.46		
34	AR1016-C	217.972	225.432 E3	-3.4	103	0.00	4.62- 4.68		
35	AR1016-D	204.311	207.584 E3	-1.6	103	0.00	5.42- 5.48		
36	AR1016-E	225.463	233.089 E3	-3.4	103	0.00	5.60- 5.66		
37	AR1260-A	697.739	703.375 E3	-0.8	102	0.00	8.21- 8.27		
38	AR1260-B	629.634	635.127 E3	-0.9	102	0.00	9.00- 9.06		
39	AR1260-C	495.432	507.202 E3	-2.4	102	0.00	9.61- 9.67		
40	AR1260-D	1.574	1.594 E6	-1.3	101	0.00	10.22-10.28		
41	AR1260-E	1.022	1.031 E6	-0.9	102	0.00	10.92-10.98		
42	AR1262-A								
43	AR1262-B								
44	AR1262-C								
45	AR1262-D								
46	AR1262-E								

9.8.21 9

# Continuing Calibration Summary

Page 3 of 3

Job Number: JA58750

Sample: GOA2391-CC2389

Account: ENSRMAA AECOM, INC.

Lab FileID: OA68380.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

47	AR1268-A	-----NA-----
48	AR1268-B	-----NA-----
49	AR1268-C	-----NA-----
50	AR1268-D	-----NA-----
51	AR1268-E	-----NA-----
52 S	Decachlorobiphenyl	11.421 11.376 E6 0.4 102 0.00 13.01-13.07

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

OA68332.D PCB2389.M

Wed Nov 03 15:31:50 2010 RPT1

9.8.21

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## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: GOA2391-CC2389

Account: ENSRMAA AECOM, INC.

Lab FileID: OA68391.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\2391\OA68391.D\ECD1A.CH Vial: 23  
 Signal #2 : C:\MSDCHEM\1\DATA\2391\OA68391.D\ECD2B.CH  
 Acq On : 11-3-10 07:30:10 PM Operator: annaz  
 Sample : cc2389-1000 Inst : GCOA  
 Misc : OP46406,GOA2391,1000,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB2389.M (Chemstation Integrator)  
 Title : PCB  
 Last Update : Wed Nov 03 09:31:37 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.471	19.268 E6	1.0	105	0.00	2.42- 2.49
2	AR1221-A		-----NA-----				
3	AR1221-B		-----NA-----				
4	AR1221-C		-----NA-----				
5	AR1221-D		-----NA-----				
6	AR1221-E		-----NA-----				
7	AR1232-A		-----NA-----				
8	AR1232-B		-----NA-----				
9	AR1232-C		-----NA-----				
10	AR1232-D		-----NA-----				
11	AR1232-E		-----NA-----				
12	AR1232-F		-----NA-----				
13	AR1242-A		-----NA-----				
14	AR1242-B		-----NA-----				
15	AR1242-C		-----NA-----				
16	AR1242-D		-----NA-----				
17	AR1242-E		-----NA-----				
18	AR1242-F		-----NA-----				
19	AR1248-A		-----NA-----				
20	AR1248-B		-----NA-----				
21	AR1248-C		-----NA-----				
22	AR1248-D		-----NA-----				
23	AR1248-E		-----NA-----				
24	AR1248-F		-----NA-----				
25	AR1254-A		-----NA-----				
26	AR1254-B		-----NA-----				
27	AR1254-C		-----NA-----				
28	AR1254-D		-----NA-----				
29	AR1254-E		-----NA-----				
30	AR1254-F		-----NA-----				
31	AR1254-G		-----NA-----				
32	AR1016-A	657.591	627.999 E3	4.5	100	0.00	3.45- 3.52
33	AR1016-B	1.299	1.309 E6	-0.8	105	0.00	4.18- 4.24
34	AR1016-C	553.008	546.600 E3	1.2	106	0.00	4.31- 4.38
35	AR1016-D	414.209	401.685 E3	3.0	104	0.00	5.08- 5.14
36	AR1016-E	531.745	518.056 E3	2.6	105	0.00	5.30- 5.37
37	AR1260-A	1.239	1.236 E6	0.2	105	0.00	8.01- 8.07
38	AR1260-B	723.447	719.395 E3	0.6	105	0.00	8.86- 8.92
39	AR1260-C	754.939	747.855 E3	0.9	105	0.00	9.33- 9.39
40	AR1260-D	1.759	1.791 E6	-1.8	105	0.00	9.94-10.00
41	AR1260-E	0.920	0.922 E6	-0.2	105	0.00	10.51-10.57

9.8.22

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# Continuing Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: GOA2391-CC2389

Account: ENSRMAA AECOM, INC.

Lab FileID: OA68391.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-A								
43	AR1262-B								
44	AR1262-C								
45	AR1262-D								
46	AR1262-E								
47	AR1268-A								
48	AR1268-B								
49	AR1268-C								
50	AR1268-D								
51	AR1268-E								
52 S	Decachlorobiphenyl	17.258	16.875 E6	2.2	104	0.00	13.15-13.21		

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	7.208	7.176 E6	0.4	103	0.00	2.40- 2.46		
2	AR1221-A								
3	AR1221-B								
4	AR1221-C								
5	AR1221-D								
6	AR1221-E								
7	AR1232-A								
8	AR1232-B								
9	AR1232-C								
10	AR1232-D								
11	AR1232-E								
12	AR1232-F								
13	AR1242-A								
14	AR1242-B								
15	AR1242-C								
16	AR1242-D								
17	AR1242-E								
18	AR1242-F								
19	AR1248-A								
20	AR1248-B								
21	AR1248-C								
22	AR1248-D								
23	AR1248-E								
24	AR1248-F								
25	AR1254-A								
26	AR1254-B								
27	AR1254-C								
28	AR1254-D								
29	AR1254-E								
30	AR1254-F								
31	AR1254-G								
32	AR1016-A	191.956	190.625 E3	0.7	102	0.00	3.66- 3.72		
33	AR1016-B	477.832	472.208 E3	1.2	102	0.00	4.40- 4.46		
34	AR1016-C	217.972	217.581 E3	0.2	104	0.00	4.62- 4.68		
35	AR1016-D	204.311	200.917 E3	1.7	102	0.00	5.42- 5.48		
36	AR1016-E	225.463	225.521 E3	-0.0	102	0.00	5.60- 5.66		
37	AR1260-A	697.739	689.083 E3	1.2	100	0.00	8.21- 8.27		
38	AR1260-B	629.634	626.388 E3	0.5	101	0.00	9.00- 9.06		
39	AR1260-C	495.432	493.638 E3	0.4	101	0.00	9.61- 9.67		
40	AR1260-D	1.574	1.596 E6	-1.4	101	0.00	10.22-10.28		
41	AR1260-E	1.022	1.034 E6	-1.2	101	0.00	10.92-10.98		
42	AR1262-A								
43	AR1262-B								
44	AR1262-C								
45	AR1262-D								
46	AR1262-E								

9.8.22 9

# Continuing Calibration Summary

Page 3 of 3

Job Number: JA58750

Sample: GOA2391-CC2389

Account: ENSRMAA AECOM, INC.

Lab FileID: OA68391.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

47	AR1268-A	-----NA-----
48	AR1268-B	-----NA-----
49	AR1268-C	-----NA-----
50	AR1268-D	-----NA-----
51	AR1268-E	-----NA-----
52 S	Decachlorobiphenyl	11.421 11.151 E6 2.4 102 0.00 13.01-13.07

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

OA68333.D PCB2389.M

Thu Nov .04 08:09:57 2010 RPT1

9.8.22

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## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: GOA2391-CC2389

Account: ENSRMAA AECOM, INC.

Lab FileID: OA68397.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\2391\OA68397.D\ECD1A.CH Vial: 29  
 Signal #2 : C:\MSDCHEM\1\DATA\2391\OA68397.D\ECD2B.CH  
 Acq On : 03 Nov 2010 10:25 pm Operator: annaz  
 Sample : cc2389-500 Inst : GCOA  
 Misc : OP46323,GOA2391,17.1,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\PCB2389.M (Chemstation Integrator)  
 Title : PCB  
 Last Update : Wed Nov 03 09:31:37 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.471	20.400 E6	-4.8	107	0.00	2.42- 2.49
2	AR1221-A		-----NA-----				
3	AR1221-B		-----NA-----				
4	AR1221-C		-----NA-----				
5	AR1221-D		-----NA-----				
6	AR1221-E		-----NA-----				
7	AR1232-A		-----NA-----				
8	AR1232-B		-----NA-----				
9	AR1232-C		-----NA-----				
10	AR1232-D		-----NA-----				
11	AR1232-E		-----NA-----				
12	AR1232-F		-----NA-----				
13	AR1242-A		-----NA-----				
14	AR1242-B		-----NA-----				
15	AR1242-C		-----NA-----				
16	AR1242-D		-----NA-----				
17	AR1242-E		-----NA-----				
18	AR1242-F		-----NA-----				
19	AR1248-A		-----NA-----				
20	AR1248-B		-----NA-----				
21	AR1248-C		-----NA-----				
22	AR1248-D		-----NA-----				
23	AR1248-E		-----NA-----				
24	AR1248-F		-----NA-----				
25	AR1254-A		-----NA-----				
26	AR1254-B		-----NA-----				
27	AR1254-C		-----NA-----				
28	AR1254-D		-----NA-----				
29	AR1254-E		-----NA-----				
30	AR1254-F		-----NA-----				
31	AR1254-G		-----NA-----				
32	AR1016-A	657.591	713.630 E3	-8.5	108	0.00	3.45- 3.52
33	AR1016-B	1.299	1.365 E6	-5.1	106	0.00	4.18- 4.24
34	AR1016-C	553.008	588.700 E3	-6.5	106	0.00	4.31- 4.38
35	AR1016-D	414.209	443.257 E3	-7.0	107	0.00	5.09- 5.15
36	AR1016-E	531.745	570.979 E3	-7.4	107	0.00	5.30- 5.37
37	AR1260-A	1.239	1.300 E6	-4.9	107	0.00	8.01- 8.07
38	AR1260-B	723.447	771.241 E3	-6.6	108	0.00	8.85- 8.91
39	AR1260-C	754.939	803.388 E3	-6.4	108	0.00	9.33- 9.39
40	AR1260-D	1.759	1.864 E6	-6.0	107	0.00	9.95-10.01
41	AR1260-E	0.920	0.968 E6	-5.2	106	0.00	10.51-10.57

9.8.23  
9



# Continuing Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: GOA2391-CC2389

Account: ENSRMAA AECOM, INC.

Lab FileID: OA68397.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1262-A								
43	AR1262-B								
44	AR1262-C								
45	AR1262-D								
46	AR1262-E								
47	AR1268-A								
48	AR1268-B								
49	AR1268-C								
50	AR1268-D								
51	AR1268-E								
52 S	Decachlorobiphenyl	17.258	18.117 E6	-5.0	107	0.00	13.15-13.21		

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	7.208	7.535 E6	-4.5	107	0.00	2.40- 2.46		
2	AR1221-A								
3	AR1221-B								
4	AR1221-C								
5	AR1221-D								
6	AR1221-E								
7	AR1232-A								
8	AR1232-B								
9	AR1232-C								
10	AR1232-D								
11	AR1232-E								
12	AR1232-F								
13	AR1242-A								
14	AR1242-B								
15	AR1242-C								
16	AR1242-D								
17	AR1242-E								
18	AR1242-F								
19	AR1248-A								
20	AR1248-B								
21	AR1248-C								
22	AR1248-D								
23	AR1248-E								
24	AR1248-F								
25	AR1254-A								
26	AR1254-B								
27	AR1254-C								
28	AR1254-D								
29	AR1254-E								
30	AR1254-F								
31	AR1254-G								
32	AR1016-A	191.956	202.787 E3	-5.6	105	0.00	3.66- 3.72		
33	AR1016-B	477.832	496.871 E3	-4.0	105	0.00	4.40- 4.46		
34	AR1016-C	217.972	230.062 E3	-5.5	105	0.00	4.62- 4.68		
35	AR1016-D	204.311	213.016 E3	-4.3	105	0.00	5.42- 5.48		
36	AR1016-E	225.463	239.151 E3	-6.1	106	0.00	5.60- 5.66		
37	AR1260-A	697.739	718.485 E3	-3.0	104	0.00	8.21- 8.27		
38	AR1260-B	629.634	653.452 E3	-3.8	105	0.00	9.00- 9.06		
39	AR1260-C	495.432	521.504 E3	-5.3	105	0.00	9.61- 9.67		
40	AR1260-D	1.574	1.649 E6	-4.8	105	0.00	10.22-10.28		
41	AR1260-E	1.022	1.062 E6	-3.9	105	0.00	10.92-10.98		
42	AR1262-A								
43	AR1262-B								
44	AR1262-C								
45	AR1262-D								
46	AR1262-E								

9.8.23

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## Page 3 of 3

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

47	AR1268-A								-----NA-----
48	AR1268-B								-----NA-----
49	AR1268-C								-----NA-----
50	AR1268-D								-----NA-----
51	AR1268-E								-----NA-----
52 S	Decachlorobiphenyl	11.421	11.674	E6	-2.2	105	0.00	13.01-13.07	

```
SPCC's out = 0 CCC's out = 0
Thu Nov 04 08:07:49 2010 RPT1
```

**Initial Calibration Summary**

Page 1 of 1

Job Number: JA58750

Sample: GWW3143-ICC3143

Account: ENSRMAA AECOM, INC.

Lab FileID: WW90009.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Response Factor Report GCWW

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)

Title : HERB

Last Update : Wed May 05 08:26:25 2010

## Calibration Files

500	=WW90007.D	400	=WW90008.D	300	=WW90009.D
200	=WW90010.D	100	=WW90011.D	50	=WW90012.D

Compound		500	400	300	200	100	50	Avg	%RSD
1)	Dalapon	3.384	3.391	3.386	3.481	3.754	3.416	3.469 E6	4.17
2) S	2,4-DCAA	2.108	2.082	2.107	2.205	2.426	2.266	2.199 E6	5.97
3)	Dicamba	1.093	1.073	1.065	1.128	1.210	1.168	1.123 E7	5.10
4)	MCPP	5.544	5.431	5.189	5.689	5.172	3.811	5.139 E3	13.26
5)	MCPA	0.889	0.901	0.829	1.060	1.077	1.097	0.976 E4	11.85
6)	Dichloroprop	3.166	3.154	3.117	3.358	3.535	3.094	3.237 E6	5.35
7)	2,4-D	3.124	3.109	3.064	3.236	3.293	2.860	3.114 E6	4.85
8)	Pentachlorophenol	4.703	4.603	4.499	4.603	4.650	4.197	4.543 E7	4.01
9)	2,4,5-TP	1.853	1.809	1.777	1.798	1.898	1.584	1.786 E7	6.05
10)	2,4,5-T	1.632	1.594	1.578	1.595	1.725	1.041	1.528 E7	15.99
11)	2,4-DB	1.646	1.567	1.493	1.534	1.579	1.463	1.547 E6	4.22
12)	Dinoseb	1.534	1.583	1.640	1.744	1.920	1.833	1.709 E7	8.76
13)	Picloram	2.046	1.888	1.764	1.604	1.469	1.095	1.644 E7	20.52

## Signal #2 Calibration Files

500	=WW90007.D	400	=WW90008.D	300	=WW90009.D
200	=WW90010.D	100	=WW90011.D	50	=WW90046.D

Compound		500	400	300	200	100	50	Avg	%RSD
1)	Dalapon	1.552	1.561	1.528	1.645	1.820	1.695	1.634 E6	6.81
2) S	2,4-DCAA	0.898	0.894	0.896	0.931	1.032	0.988	0.940 E6	6.13
3)	Dicamba	4.192	4.220	4.211	4.313	4.678	4.604	4.370 E6	4.93
4)	MCPP	2.498	3.166	2.619	2.777	3.170	4.062	3.049 E3	18.65
5)	MCPA	3.970	4.239	4.440	5.021	6.141		4.762 E3	18.10
6)	Dichloroprop	1.198	1.202	1.222	1.324	1.580	1.519	1.341 E6	12.61
7)	2,4-D	1.306	1.336	1.379	1.427	1.623	1.409	1.413 E6	7.92
8)	Pentachlorophenol	1.834	1.775	1.736	1.710	1.753	1.474	1.714 E7	7.28
9)	2,4,5-TP	7.373	7.159	7.021	7.023	7.410	6.455	7.074 E6	4.89
10)	2,4,5-T	6.187	5.912	6.694	5.779	6.172	5.236	5.997 E6	8.12
11)	2,4-DB	6.804	6.860	7.165	7.446	8.458	6.874	7.268 E5	8.69
12)	Dinoseb	4.999	4.963	4.906	5.022	5.133	4.560	4.931 E6	3.98
13)	Picloram	9.214	8.855	8.497	8.265	8.116	6.560	8.251 E6	11.15

(# ) = Out of Range

HWW3143.M

Wed May 05 11:36:24 2010

GCCD

9.8.24

9

**Initial Calibration Verification**

Page 1 of 1

Job Number: JA58750

Sample: GWW3143-ICV3143

Account: ENSRMAA AECOM, INC.

Lab FileID: WW90013.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GWW3143\WW90013.D\ECD1A.CH Vial: 8  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3143\WW90013.D\ECD2B.CH  
 Acq On : 3 May 2010 6:34 pm Operator: toyar  
 Sample : icv3143-300 Inst : GCWW  
 Misc : OP43177,Gww3143,35.1,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Tue May 04 10:51:55 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Dalapon	3.469	3.452 E6	0.5	102	0.00	5.91- 6.33
2 S	2,4-DCAA	2.199	2.106 E6	4.2	100	-0.03	15.11-15.17
3	Dicamba	11.227	10.817 E6	3.7	102	0.00	15.38-15.44
4	MCPD	5.139	5.629 E3	-9.5	108	0.00	15.68-15.74
5	MCPA	9.756	10.079 E3	-3.3	122	0.00	15.91-15.97
6	Dichloroprop	3.237	2.471 E6	23.7#	79	-0.02	16.46-16.52
7	2,4-D	3.114	2.048 E6	34.2#	67	-0.03	16.82-16.88
8	Pentachlorophenol	45.425	48.732 E6	-7.3	108	0.00	17.12-17.18
9	2,4,5-TP	17.863	16.477 E6	7.8	93	0.00	17.92-17.98
10	2,4,5-T	15.276	15.853 E6	-3.8	100	0.00	18.31-18.37
11	2,4-DB	1.547	1.702 E6	-10.0	114	0.00	18.98-19.04
12	Dinoseb	17.092	18.135 E6	-6.1	111	0.00	20.25-20.31
13	Picloram	16.442	13.834 E6	15.9#	78	0.00	20.10-20.16

\*\*\*\*\* Signal #2 \*\*\*\*\*

1	Dalapon	1.634	1.603 E6	1.9	105	0.00	-4.96- 5.44
2 S	2,4-DCAA	939.925	898.159 E3	4.4	100	-0.03	14.61-14.67
3	Dicamba	4.370	4.226 E6	3.3	100	0.00	14.86-14.92
4	MCPD	3.049	2.698 E3	11.5	103	0.00	15.07-15.13
5	MCPA	4.762	4.849 E3	-1.8	109	0.00	15.41-15.47
6	Dichloroprop	1.341	1.067 E6	20.4#	87	-0.02	15.89-15.95
7	2,4-D	1.413	1.775 E6	-25.6#	129	-0.03	16.34-16.40
8	Pentachlorophenol	17.136	19.647 E6	-14.7	113	0.00	16.81-16.87
9	2,4,5-TP	7.074	6.672 E6	5.7	95	0.00	17.39-17.45
10	2,4,5-T	5.997	6.617 E6	-10.3	99	0.00	17.89-17.95
11	2,4-DB	726.787	648.400 E3	10.8	90	0.00	18.51-18.57
12	Dinoseb	4.931	5.114 E6	-3.7	104	0.00	18.86-18.92
13	Picloram	8.251	7.176 E6	13.0	84	0.00	19.99-20.05

Average % D = 9.9

( 19.2 %) 5 of 26 compounds'%D &gt; 15

(#) = Out of Range  
 WW90009.D HWW3143.M

SPCC's out = 0 CCC's out = 0  
 Tue May 04 11:15:39 2010 GCCD

9.8.25

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**Initial Calibration Verification**

Page 1 of 1

Job Number: JA58750

Sample: GWW3144-ICV3143

Account: ENSRMAA AECOM, INC.

Lab FileID: WW90026.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GWW3144\WW90026.D\ECD1A.CH Vial: 1  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3144\WW90026.D\ECD2B.CH  
 Acq On : 4 May 2010 10:18 am Operator: toyar  
 Sample : ICV3143-300 Inst : GCWW  
 Misc : OP43346,Gww3144,37.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Tue May 04 17:32:59 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Dalapon			-----NA-----			
2 S	2,4-DCAA			-----NA-----			
3	Dicamba			-----NA-----			
4	MCPPE			-----NA-----			
5	MCPA			-----NA-----			
6	Dichloroprop			-----NA-----			
7	2,4-D	3.114	3.075 E6	1.3	100	0.02	16.85-16.91
8	Pentachlorophenol			-----NA-----			
9	2,4,5-TP			-----NA-----			
10	2,4,5-T			-----NA-----			
11	2,4-DB			-----NA-----			
12	Dinoseb			-----NA-----			
13	Picloram			-----NA-----			

\*\*\*\*\* Signal #2 \*\*\*\*\*

1	Dalapon			-----NA-----			
2 S	2,4-DCAA			-----NA-----			
3	Dicamba			-----NA-----			
4	MCPPE			-----NA-----			
5	MCPA			-----NA-----			
6	Dichloroprop			-----NA-----			
7	2,4-D	1.413	1.426 E6	-0.9	103	0.02	16.37-16.43
8	Pentachlorophenol			-----NA-----			
9	2,4,5-TP			-----NA-----			
10	2,4,5-T			-----NA-----			
11	2,4-DB			-----NA-----			
12	Dinoseb			-----NA-----			
13	Picloram			-----NA-----			

Average % D = 1.1

( 0.0 %) 0 of 2 compounds'%D &gt; 15

(#) = Out of Range  
 WW90009.D HWW3143.M

SPCC's out = 0 CCC's out = 0  
 Tue May 04 17:36:09 2010 GCCD

9.8.26

9

**Initial Calibration Verification**

Page 1 of 1

Job Number: JA58750

Sample: GWW3144-ICV3143

Account: ENSRMAA AECOM, INC.

Lab FileID: WW90038.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GWW3144\WW90038.D\ECD1A.CH Vial: 32  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3144\WW90038.D\ECD2B.CH  
 Acq On : 4 May 2010 5:50 pm Operator: toyar  
 Sample : icv3143-300 Inst : GCWW  
 Misc : OP43235,Gww3144,1000,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Tue May 04 17:32:59 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 Dalapon			-----	NA-----		
2 S 2,4-DCAA			-----	NA-----		
3 Dicamba			-----	NA-----		
4 MCPP			-----	NA-----		
5 MCPA			-----	NA-----		
6 Dichloroprop	3.237	2.807 E6	13.3	90	0.04	16.50-16.56
7 2,4-D			-----	NA-----		
8 Pentachlorophenol			-----	NA-----		
9 2,4,5-TP			-----	NA-----		
10 2,4,5-T			-----	NA-----		
11 2,4-DB			-----	NA-----		
12 Dinoseb			-----	NA-----		
13 Picloram			-----	NA-----		

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 Dalapon			-----	NA-----		
2 S 2,4-DCAA			-----	NA-----		
3 Dicamba			-----	NA-----		
4 MCPP			-----	NA-----		
5 MCPA			-----	NA-----		
6 Dichloroprop	1.341	1.165 E6	13.1	95	0.04	15.94-16.00
7 2,4-D			-----	NA-----		
8 Pentachlorophenol			-----	NA-----		
9 2,4,5-TP			-----	NA-----		
10 2,4,5-T			-----	NA-----		
11 2,4-DB			-----	NA-----		
12 Dinoseb			-----	NA-----		
13 Picloram			-----	NA-----		

Average % D = 13.2

( 0.0 %) 0 of 2 compounds'%D &gt; 15

(#) = Out of Range  
 WW90009.D HWW3143.M

SPCC's out = 0 CCC's out = 0  
 Tue May 04 18:05:47 2010 GCCD

9.8.27 9

**Continuing Calibration Summary**

Page 1 of 1

Job Number: JA58750

Sample: GWW3331-CC3143

Account: ENSRMAA AECOM, INC.

Lab FileID: WW95222.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GWW3331\WW95222.D\ECD1A.CH Vial: 1  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3331\WW95222.D\ECD2B.CH  
 Acq On : 19 Oct 2010 10:35 am Operator: toyar  
 Sample : cc3143-200 Inst : GCWW  
 Misc : OP46081,Gww3331,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT	Window
1	Dalapon	3.469	3.740 E6	-7.8	107	-0.01	6.06-	6.12
2 S	2,4-DCAA	2.199	2.528 E6	-15.0	115	-0.01	15.10-	15.16
3	Dicamba	11.227	13.453 E6	-19.8#	119	-0.02	15.36-	15.42
4	MCPD	5.139	5.270 E3	-2.5	93	-0.02	15.66-	15.72
5	MCPA	9.756	11.656 E3	-19.5#	110	-0.01	15.90-	15.96
6	Dichloroprop	3.237	3.033 E6	6.3	90	-0.02	16.44-	16.50
7	2,4-D	3.114	3.017 E6	3.1	93	0.03	16.84-	16.90
8	Pentachlorophenol	45.425	56.256 E6	-23.8#	122	-0.02	17.10-	17.16
9	2,4,5-TP	17.863	18.615 E6	-4.2	104	0.00	17.91-	17.97
10	2,4,5-T	15.276	17.762 E6	-16.3#	111	0.05	18.34-	18.40
11	2,4-DB	1.547	1.730 E6	-11.8	113	0.07	19.02-	19.08
12	Dinoseb	17.092	17.253 E6	-0.9	99	-0.01	20.22-	20.28
13	Picloram	16.442	1.832 E6	88.9#	11#	0.10	20.19-	20.25

\*\*\*\*\* Signal #2 \*\*\*\*\*

1	Dalapon	1.634	1.550 E6	5.1	94	-0.01	5.14-	5.20
2 S	2,4-DCAA	939.925	974.785 E3	-3.7	105	-0.01	14.60-	14.66
3	Dicamba	4.370	4.664 E6	-6.7	108	-0.01	14.84-	14.90
4	MCPD	3.049	3.111 E3	-2.0	112	-0.02	15.05-	15.11
5	MCPA	4.762	5.915 E3	-24.2#	118	-0.01	15.40-	15.46
6	Dichloroprop	1.341	1.191 E6	11.2	90	-0.01	15.88-	15.94
7	2,4-D	1.413	1.376 E6	2.6	96	0.02	16.36-	16.42
8	Pentachlorophenol	17.136	18.759 E6	-9.5	110	-0.01	16.80-	16.86
9	2,4,5-TP	7.074	6.378 E6	9.8	91	0.00	17.38-	17.44
10	2,4,5-T	5.997	6.087 E6	-1.5	105	0.05	17.92-	17.98
11	2,4-DB	726.787	735.177 E3	-1.2	99	0.07	18.56-	18.62
12	Dinoseb	4.931	4.426 E6	10.2	88	0.00	18.85-	18.91
13	Picloram	8.251	3.528 E6	57.2#	43#	0.07	20.05-	20.11

Average % D = 14.0

( 26.9 %) 7 of 26 compounds'%D &gt; 15

(# ) = Out of Range

SPCC's out = 0 CCC's out = 0

WW90010.D HWW3143.M

Tue Oct 19 11:51:16 2010 GCCD

## Continuing Calibration Summary

Page 1 of 1

Job Number: JA58750

Sample: GWW3331-CC3143

Account: ENSRMAA AECOM, INC.

Lab FileID: WW95233.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GWW3331\WW95233.D\ECD1A.CH Vial: 12  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3331\WW95233.D\ECD2B.CH  
 Acq On : 19 Oct 2010 5:15 pm Operator: toyar  
 Sample : cc3143-300 Inst : GCWW  
 Misc : OP46195,Gww3331,35.1,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Dalapon	3.469	3.659 E6	-5.5	108	0.00	6.07- 6.13
2 S	2,4-DCAA	2.199	2.418 E6	-10.0	115	-0.02	15.10-15.16
3	Dicamba	11.227	12.634 E6	-12.5	119	-0.02	15.36-15.42
4	MCPPE	5.139	5.115 E3	0.5	99	-0.02	15.66-15.72
5	MCPA	9.756	9.850 E3	-1.0	119	-0.02	15.90-15.96
6	Dichloroprop	3.237	2.890 E6	10.7	93	-0.01	16.44-16.50
7	2,4-D	3.114	3.015 E6	3.2	98	0.03	16.84-16.90
8	Pentachlorophenol	45.425	56.908 E6	-25.3#	127	-0.01	17.10-17.16
9	2,4,5-TP	17.863	17.664 E6	1.1	99	0.00	17.91-17.97
10	2,4,5-T	15.276	16.716 E6	-9.4	106	0.05	18.34-18.40
11	2,4-DB	1.547	1.651 E6	-6.7	111	0.06	19.02-19.08
12	Dinoseb	17.092	19.173 E6	-12.2	117	-0.01	20.23-20.29
13	Picloram	16.442	2.510 E6	84.7#	14#	0.09	20.18-20.24

\*\*\*\*\* Signal #2 \*\*\*\*\*

1	Dalapon	1.634	1.466 E6	10.3	96	0.00	5.15- 5.21
2 S	2,4-DCAA	939.925	910.676 E3	3.1	102	-0.01	14.60-14.66
3	Dicamba	4.370	4.285 E6	1.9	102	-0.01	14.84-14.90
4	MCPPE	3.049	2.545 E3	16.5#	97	-0.01	15.05-15.11
5	MCPA	4.762	4.621 E3	3.0	104	-0.01	15.40-15.46
6	Dichloroprop	1.341	1.087 E6	18.9#	89	-0.01	15.88-15.94
7	2,4-D	1.413	1.276 E6	9.7	93	0.02	16.36-16.42
8	Pentachlorophenol	17.136	18.155 E6	-5.9	105	-0.01	16.80-16.86
9	2,4,5-TP	7.074	6.081 E6	14.0	87	0.00	17.38-17.44
10	2,4,5-T	5.997	5.964 E6	0.6	89	0.04	17.92-17.98
11	2,4-DB	726.787	748.955 E3	-3.1	105	0.06	18.55-18.61
12	Dinoseb	4.931	4.614 E6	6.4	94	0.00	18.85-18.91
13	Picloram	8.251	3.957 E6	52.0#	47#	0.06	20.04-20.10

Average % D = 12.6

( 19.2 %) 5 of 26 compounds'%D &gt; 15

(#) = Out of Range  
 WW90009.D HWW3143.M

SPCC's out = 0 CCC's out = 0  
 Wed Oct 20 08:40:21 2010 GCCD



## Continuing Calibration Summary

Page 1 of 1

Job Number: JA58750

Sample: GWW3332-CC3143

Account: ENSRMAA AECOM, INC.

Lab FileID: WW95246.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GWW3332\WW95246.D\ECD1A.CH Vial: 1  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3332\WW95246.D\ECD2B.CH  
 Acq On : 20 Oct 2010 9:09 am Operator: toyar  
 Sample : cc3143-300 Inst : GCWW  
 Misc : OP46081,Gww3332,17.0,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Dalapon	3.469	3.750 E6	-8.1	111	-0.02	6.05- 6.11
2 S	2,4-DCAA	2.199	2.467 E6	-12.2	117	-0.03	15.09-15.15
3	Dicamba	11.227	12.777 E6	-13.8	120	-0.03	15.35-15.41
4	MCP	5.139	5.534 E3	-7.7	107	-0.03	15.65-15.71
5	MCPA	9.756	10.921 E3	-11.9	132	-0.03	15.89-15.95
6	Dichloroprop	3.237	2.935 E6	9.3	94	-0.03	16.43-16.49
7	2,4-D	3.114	2.970 E6	4.6	97	0.01	16.83-16.89
8	Pentachlorophenol	45.425	55.610 E6	-22.4#	124	-0.03	17.09-17.15
9	2,4,5-TP	17.863	17.604 E6	1.4	99	-0.01	17.90-17.96
10	2,4,5-T	15.276	14.375 E6	5.9	91	0.04	18.33-18.39
11	2,4-DB	1.547	1.575 E6	-1.8	105	0.06	19.02-19.08
12	Dinoseb	17.092	20.283 E6	-18.7#	124	-0.02	20.22-20.28
13	Picloram						-----NA-----

\*\*\*\*\* Signal #2 \*\*\*\*\*

1	Dalapon	1.634	1.503 E6	8.0	98	-0.02	5.13- 5.19
2 S	2,4-DCAA	939.925	919.980 E3	2.1	103	-0.03	14.59-14.65
3	Dicamba	4.370	4.386 E6	-0.4	104	-0.03	14.83-14.89
4	MCP	3.049	3.131 E3	-2.7	120	-0.03	15.04-15.10
5	MCPA	4.762	5.279 E3	-10.9	119	-0.03	15.39-15.45
6	Dichloroprop	1.341	1.109 E6	17.3#	91	-0.02	15.87-15.93
7	2,4-D	1.413	1.304 E6	7.7	95	0.01	16.35-16.41
8	Pentachlorophenol	17.136	18.534 E6	-8.2	107	-0.02	16.79-16.85
9	2,4,5-TP	7.074	6.205 E6	12.3	88	0.00	17.37-17.43
10	2,4,5-T	5.997	5.822 E6	2.9	87	0.04	17.91-17.97
11	2,4-DB	726.787	722.132 E3	0.6	101	0.06	18.55-18.61
12	Dinoseb	4.931	4.476 E6	9.2	91	-0.01	18.84-18.90
13	Picloram						-----NA-----

Average % D = 8.3

( 12.5 %) 3 of 24 compounds'%D &gt; 15

(#) = Out of Range  
 WW90009.D HWW3143.M

SPCC's out = 0 CCC's out = 0  
 Wed Oct 20 09:43:47 2010 GCCD

9.8.30

9

## Continuing Calibration Summary

Page 1 of 1

Job Number: JA58750

Sample: GWW3332-ECC3143

Account: ENSRMAA AECOM, INC.

Lab FileID: WW95255.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GWW3332\WW95255.D\ECD1A.CH Vial: 10  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3332\WW95255.D\ECD2B.CH  
 Acq On : 20 Oct 2010 1:52 pm Operator: toyar  
 Sample : ECC3143-200 Inst : GCWW  
 Misc : OP46195,Gww3332,35.2,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)	RT Window
1	Dalapon	3.469	3.750 E6	-8.1	108	-0.02	6.05- 6.11
2 S	2,4-DCAA	2.199	2.446 E6	-11.2	111	-0.02	15.10-15.16
3	Dicamba	11.227	13.091 E6	-16.6#	116	-0.02	15.35-15.41
4	MCPPE	5.139	4.942 E3	3.8	87	-0.02	15.66-15.72
5	MCPA	9.756	10.998 E3	-12.7	104	-0.02	15.90-15.96
6	Dichloroprop	3.237	2.932 E6	9.4	87	-0.02	16.44-16.50
7	2,4-D	3.114	2.820 E6	9.4	87	0.04	16.85-16.91
8	Pentachlorophenol	45.425	54.533 E6	-20.1#	118	-0.02	17.09-17.15
9	2,4,5-TP	17.863	16.967 E6	5.0	94	0.00	17.90-17.96
10	2,4,5-T	15.276	15.107 E6	1.1	95	0.06	18.35-18.41
11	2,4-DB	1.547	1.577 E6	-1.9	103	0.08	19.04-19.10
12	Dinoseb	17.092	18.228 E6	-6.6	105	-0.02	20.22-20.28
13	Picloram			-----NA-----			

\*\*\*\*\* Signal #2 \*\*\*\*\*

1	Dalapon	1.634	1.517 E6	7.2	92	-0.02	5.14- 5.20
2 S	2,4-DCAA	939.925	922.505 E3	1.9	99	-0.02	14.60-14.66
3	Dicamba	4.370	4.477 E6	-2.4	104	-0.02	14.84-14.90
4	MCPPE	3.049	3.121 E3	-2.4	112	-0.02	15.05-15.11
5	MCPA	4.762	5.537 E3	-16.3#	110	-0.02	15.40-15.46
6	Dichloroprop	1.341	1.118 E6	16.6#	84	-0.02	15.87-15.93
7	2,4-D	1.413	1.293 E6	8.5	91	0.03	16.37-16.43
8	Pentachlorophenol	17.136	17.464 E6	-1.9	102	-0.02	16.79-16.85
9	2,4,5-TP	7.074	5.844 E6	17.4#	83	0.00	17.38-17.44
10	2,4,5-T	5.997	5.612 E6	6.4	97	0.05	17.92-17.98
11	2,4-DB	726.787	688.276 E3	5.3	92	0.08	18.57-18.63
12	Dinoseb	4.931	4.499 E6	8.8	90	0.00	18.84-18.90
13	Picloram			-----NA-----			

Average % D = 8.4

( 20.8 %) 5 of 24 compounds'%D &gt; 15

(#) = Out of Range  
 WW90010.D HWW3143.M

SPCC's out = 0 CCC's out = 0  
 Wed Oct 20 14:22:46 2010 GCCD

## Continuing Calibration Summary

Page 1 of 1

Job Number: JA58750

Sample: GWW3334-CC3143

Account: ENSRMAA AECOM, INC.

Lab FileID: WW95314.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GWW3334\WW95314.D\ECD1A.CH Vial: 12  
 Signal #2 : C:\HPCHEM\1\DATA\GWW3334\WW95314.D\ECD2B.CH  
 Acq On : 21 Oct 2010 4:24 pm Operator: toyar  
 Sample : CC3143-200 Inst : GCWW  
 Misc : OP46267,Gww3334,100,,,10,1 Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Tue May 18 16:50:01 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT	Window
1	Dalapon	3.469	3.886 E6	-12.0	112	-0.02	6.06-	6.12
2 S	2,4-DCAA	2.199	2.570 E6	-16.9#	117	0.01	15.11-	15.17
3	Dicamba	11.227	13.731 E6	-22.3#	122	0.00	15.36-	15.42
4	MCP	5.139	5.311 E3	-3.3	93	0.00	15.67-	15.73
5	MCPA	9.756	11.596 E3	-18.9#	109	0.00	15.91-	15.97
6	Dichloroprop	3.237	3.084 E6	4.7	92	0.00	16.45-	16.51
7	2,4-D	3.114	2.973 E6	4.5	92	0.06	16.85-	16.91
8	Pentachlorophenol	45.425	57.706 E6	-27.0#	125	0.00	17.11-	17.17
9	2,4,5-TP	17.863	18.043 E6	-1.0	100	0.00	17.91-	17.97
10	2,4,5-T	15.276	16.300 E6	-6.7	102	0.09	18.36-	18.42
11	2,4-DB	1.547	1.596 E6	-3.2	104	0.10#	19.05-	19.11
12	Dinoseb	17.092	18.856 E6	-10.3	108	0.00	20.23-	20.29
13	Picloram						-----NA-----	

\*\*\*\*\* Signal #2 \*\*\*\*\*

1	Dalapon	1.634	1.584 E6	3.1	96	-0.02	5.14-	5.20
2 S	2,4-DCAA	939.925	979.891 E3	-4.3	105	0.00	14.61-	14.67
3	Dicamba	4.370	4.765 E6	-9.0	110	0.00	14.85-	14.91
4	MCP	3.049	3.561 E3	-16.8#	128	0.00	15.06-	15.12
5	MCPA	4.762	5.887 E3	-23.6#	117	0.00	15.41-	15.47
6	Dichloroprop	1.341	1.202 E6	10.4	91	0.00	15.88-	15.94
7	2,4-D	1.413	1.388 E6	1.8	97	0.05	16.38-	16.44
8	Pentachlorophenol	17.136	18.880 E6	-10.2	110	0.00	16.80-	16.86
9	2,4,5-TP	7.074	6.332 E6	10.5	90	0.01	17.39-	17.45
10	2,4,5-T	5.997	5.871 E6	2.1	102	0.08	17.94-	18.00
11	2,4-DB	726.787	672.449 E3	7.5	90	0.10	18.58-	18.64
12	Dinoseb	4.931	4.572 E6	7.3	91	0.00	18.85-	18.91
13	Picloram						-----NA-----	

Average % D = 9.9

( 25.0 %) 6 of 24 compounds'%D &gt; 15

(#) = Out of Range  
 WW90010.D HWW3143.M

SPCC's out = 0 CCC's out = 0  
 Thu Oct 21 16:44:30 2010 GCCD

## Continuing Calibration Summary

Page 1 of 1

Job Number: JA58750

Sample: GWW3334-CC3143

Account: ENSRMAA AECOM, INC.

Lab FileID: WW95325.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

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

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Tue May 18 16:50:01 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT	Window
1	Dalapon	3.469	3.870 E6	-11.6	114	-0.02	6.06	6.12
2 S	2,4-DCAA	2.199	2.560 E6	-16.4#	122	0.00	15.10	15.16
3	Dicamba	11.227	13.616 E6	-21.3#	128	0.00	15.36	15.42
4	MCP	5.139	6.438 E3	-25.3#	124	-0.01	15.66	15.72
5	MCPA	9.756	11.272 E3	-15.5#	136	0.00	15.90	15.96
6	Dichloroprop	3.237	3.041 E6	6.1	98	0.00	16.44	16.50
7	2,4-D	3.114	2.995 E6	3.8	98	0.06	16.85	16.91
8	Pentachlorophenol	45.425	58.370 E6	-28.5#	130	0.00	17.10	17.16
9	2,4,5-TP	17.863	19.089 E6	-6.9	107	0.00	17.91	17.97
10	2,4,5-T	15.276	18.080 E6	-18.4#	115	0.08	18.36	18.42
11	2,4-DB	1.547	1.822 E6	-17.8#	122	0.09	19.04	19.10
12	Dinoseb	17.092	21.620 E6	-26.5#	132	0.00	20.23	20.29
13	Picloram			-----NA-----				

\*\*\*\*\* Signal #2 \*\*\*\*\*

1	Dalapon	1.634	1.558 E6	4.7	102	-0.02	5.14	5.20
2 S	2,4-DCAA	939.925	973.713 E3	-3.6	109	0.00	14.60	14.66
3	Dicamba	4.370	4.674 E6	-7.0	111	0.00	14.84	14.90
4	MCP	3.049	3.437 E3	-12.7	131	0.00	15.05	15.11
5	MCPA	4.762	5.480 E3	-15.1#	123	0.00	15.40	15.46
6	Dichloroprop	1.341	1.201 E6	10.4	98	0.00	15.88	15.94
7	2,4-D	1.413	1.419 E6	-0.4	103	0.04	16.37	16.43
8	Pentachlorophenol	17.136	20.021 E6	-16.8#	115	0.00	16.80	16.86
9	2,4,5-TP	7.074	7.053 E6	0.3	100	0.01	17.38	17.44
10	2,4,5-T	5.997	6.694 E6	-11.6	100	0.07	17.93	17.99
11	2,4-DB	726.787	785.852 E3	-8.1	110	0.09	18.57	18.63
12	Dinoseb	4.931	4.885 E6	0.9	100	0.00	18.85	18.91
13	Picloram			-----NA-----				

Average % D = 12.1

( 41.7 %) 10 of 24 compounds'%D &gt; 15

(#) = Out of Range  
 WW90009.D HWW3143.M

SPCC's out = 0 CCC's out = 0  
 Fri Oct 22 09:10:12 2010 GCCD

## Continuing Calibration Summary

Page 1 of 1

Job Number: JA58750

Sample: GWW3334-CC3143

Account: ENSRMAA AECOM, INC.

Lab FileID: WW95336.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

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

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Tue May 18 16:50:01 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Dalapon	3.469	3.766 E6	-8.6	108	-0.02	6.06- 6.12
2 S	2,4-DCAA	2.199	2.454 E6	-11.6	111	0.01	15.11-15.17
3	Dicamba	11.227	13.345 E6	-18.9#	118	0.00	15.36-15.42
4	MCPFP	5.139	5.095 E3	0.9	90	0.00	15.67-15.73
5	MCPA	9.756	11.328 E3	-16.1#	107	0.00	15.91-15.97
6	Dichloroprop	3.237	2.952 E6	8.8	88	0.00	16.45-16.51
7	2,4-D	3.114	2.708 E6	13.0	84	0.08	16.87-16.93
8	Pentachlorophenol	45.425	55.665 E6	-22.5#	121	0.00	17.10-17.16
9	2,4,5-TP	17.863	17.887 E6	-0.1	99	0.01	17.92-17.98
10	2,4,5-T	15.276	17.456 E6	-14.3	109	0.10#	18.38-18.44
11	2,4-DB	1.547	1.765 E6	-14.1	115	0.12#	19.07-19.13
12	Dinoseb	17.092	19.022 E6	-11.3	109	0.00	20.23-20.29
13	Picloram						-----NA-----

\*\*\*\*\* Signal #2 \*\*\*\*\*

1	Dalapon	1.634	1.546 E6	5.4	94	-0.02	5.14- 5.20
2 S	2,4-DCAA	939.925	937.529 E3	0.3	101	0.01	14.61-14.67
3	Dicamba	4.370	4.608 E6	-5.4	107	0.00	14.85-14.91
4	MCPFP	3.049	3.407 E3	-11.7	123	0.00	15.05-15.11
5	MCPA	4.762	5.674 E3	-19.2#	113	0.00	15.41-15.47
6	Dichloroprop	1.341	1.147 E6	14.5	87	0.00	15.88-15.94
7	2,4-D	1.413	1.295 E6	8.4	91	0.06	16.38-16.44
8	Pentachlorophenol	17.136	17.959 E6	-4.8	105	0.00	16.80-16.86
9	2,4,5-TP	7.074	6.008 E6	15.1#	86	0.01	17.39-17.45
10	2,4,5-T	5.997	5.816 E6	3.0	101	0.08	17.94-18.00
11	2,4-DB	726.787	683.858 E3	5.9	92	0.17#	18.66-18.72
12	Dinoseb	4.931	4.610 E6	6.5	92	0.00	18.85-18.91
13	Picloram						-----NA-----

Average % D = 10.0

( 20.8 %) 5 of 24 compounds'%D &gt; 15

(#) = Out of Range  
 WW90010.D HWW3143.M

SPCC's out = 0 CCC's out = 0  
 Mon Oct 25 16:21:11 2010 GCCD

9.8.34

9

## Continuing Calibration Summary

Page 1 of 1

Job Number: JA58750

Sample: GWW3334-CC3143

Account: ENSRMAA AECOM, INC.

Lab FileID: WW95352.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

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

Method : C:\HPCHEM\1\METHODS\HWW3143.M (Chemstation Integrator)  
 Title : HERB  
 Last Update : Tue May 18 16:50:01 2010  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Dalapon	3.469	3.790 E6	-9.3	109	-0.02	6.06- 6.12
2 S	2,4-DCAA	2.199	2.440 E6	-11.0	111	0.01	15.11-15.17
3	Dicamba	11.227	13.432 E6	-19.6#	119	0.00	15.36-15.42
4	MCPPE	5.139	5.635 E3	-9.7	99	0.00	15.67-15.73
5	MCPA	9.756	11.147 E3	-14.3	105	0.00	15.91-15.97
6	Dichloroprop	3.237	2.967 E6	8.3	88	0.00	16.45-16.51
7	2,4-D	3.114	2.843 E6	8.7	88	0.08	16.87-16.93
8	Pentachlorophenol	45.425	60.333 E6	-32.8#	131	0.00	17.11-17.17
9	2,4,5-TP	17.863	16.982 E6	4.9	94	0.01	17.92-17.98
10	2,4,5-T	15.276	16.867 E6	-10.4	106	0.10	18.37-18.43
11	2,4-DB	1.547	1.962 E6	-26.8#	128	0.12#	19.07-19.13
12	Dinoseb	17.092	17.559 E6	-2.7	101	0.00	20.23-20.29
13	Picloram			-----NA-----			

\*\*\*\*\* Signal #2 \*\*\*\*\*

1	Dalapon	1.634	1.542 E6	5.6	94	-0.02	5.14- 5.20
2 S	2,4-DCAA	939.925	932.659 E3	0.8	100	0.00	14.61-14.67
3	Dicamba	4.370	4.565 E6	-4.5	106	0.00	14.85-14.91
4	MCPPE	3.049	3.293 E3	-8.0	119	0.00	15.05-15.11
5	MCPA	4.762	5.628 E3	-18.2#	112	0.00	15.40-15.46
6	Dichloroprop	1.341	1.135 E6	15.4#	86	0.00	15.88-15.94
7	2,4-D	1.413	1.265 E6	10.5	89	0.06	16.38-16.44
8	Pentachlorophenol	17.136	17.770 E6	-3.7	104	0.00	16.80-16.86
9	2,4,5-TP	7.074	5.810 E6	17.9#	83	0.01	17.39-17.45
10	2,4,5-T	5.997	5.802 E6	3.3	100	0.08	17.95-18.01
11	2,4-DB	726.787	655.328 E3	9.8	88	0.11#	18.59-18.65
12	Dinoseb	4.931	4.527 E6	8.2	90	0.00	18.85-18.91
13	Picloram			-----NA-----			

Average % D = 11.0

( 25.0 %) 6 of 24 compounds '%D &gt; 15

(#) = Out of Range  
 WW90010.D HWW3143.M

SPCC's out = 0 CCC's out = 0  
 Fri Oct 22 15:12:19 2010 GCCD

9.8.35  
9

## Initial Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: GXX3901-ICC3901

Account: ENSRMAA AECOM, INC.

Lab FileID: XX100286.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

### Response Factor Report GCXX

Method : C:\HPCHEM\1\METHODS\PCB3901.M (Chemstation Integrator)  
Title :  
Last Update : Tue Oct 26 11:24:49 2010  
Response via : Initial Calibration

#### Calibration Files

50 =XX100283.D 250 =XX100284.D 500 =XX100285.D 1000=XX100286.D  
2000 =XX100287.D 3000 =XX100288.D

	Compound	50	250	500	1000	2000	3000	Avg	%RSD
1)	S Tetrachloro-m-xylen	1.905	1.863	1.848	1.922	2.213	2.046	1.966 E7	7.11
2)	AR1221-A				1.490			1.490 E5	0.00
3)	AR1221-B				1.635			1.635 E5	0.00
4)	AR1221-C				5.525			5.525 E5	0.00
5)	AR1221-D				4.058			4.058 E4	0.00
6)	AR1221-E				7.132			7.132 E4	0.00
7)	AR1232-A				4.748			4.748 E5	0.00
8)	AR1232-B				3.376			3.376 E5	0.00
9)	AR1232-C				7.029			7.029 E5	0.00
10)	AR1232-D				2.660			2.660 E5	0.00
11)	AR1232-E				2.553			2.553 E5	0.00
12)	AR1242-A				6.098			6.098 E5	0.00
13)	AR1242-B				1.338			1.338 E6	0.00
14)	AR1242-C				5.031			5.031 E5	0.00
15)	AR1242-D				5.340			5.340 E5	0.00
16)	AR1242-E				5.308			5.308 E5	0.00
17)	AR1248-A				2.756			2.756 E5	0.00
18)	AR1248-B				8.194			8.194 E5	0.00
19)	AR1248-C				8.496			8.496 E5	0.00
20)	AR1248-D				8.404			8.404 E5	0.00
21)	AR1248-E				4.785			4.785 E5	0.00
22)	AR1248-F				8.487			8.487 E5	0.00
23)	AR1248-G				6.118			6.118 E5	0.00
24)	AR1254-A				7.070			7.070 E5	0.00
25)	AR1254-B				8.777			8.777 E5	0.00
26)	AR1254-C				7.100			7.100 E5	0.00
27)	AR1254-D				1.251			1.251 E6	0.00
28)	AR1254-E				1.006			1.006 E6	0.00
29)	AR1254-F				9.409			9.409 E5	0.00
30)	AR1254-G				1.324			1.324 E6	0.00
31)	AR1262-A				9.834			9.834 E5	0.00
32)	AR1262-B				1.379			1.379 E6	0.00
33)	AR1262-C				1.274			1.274 E6	0.00
34)	AR1262-D				3.134			3.134 E6	0.00
35)	AR1262-E				1.196			1.196 E6	0.00
36)	AR1268-A				3.116			3.116 E6	0.00
37)	AR1268-B				3.986			3.986 E6	0.00
38)	AR1268-C				2.662			2.662 E6	0.00
39)	AR1268-D				1.017			1.017 E6	0.00
40)	AR1268-E				8.575			8.575 E6	0.00
41)	AR1016-A	4.365	3.959	3.830	3.736	3.312	3.669	3.812 E5	9.12
42)	AR1016-B	7.807	7.130	6.922	6.838	6.916	6.973	7.098 E5	5.08
43)	AR1016-C	1.521	1.483	1.486	1.507	1.593	1.638	1.538 E6	4.12
44)	AR1016-D	6.136	5.876	5.753	5.660	5.935	6.057	5.903 E5	3.04
45)	AR1016-E	6.475	6.329	6.163	5.871	6.247	6.358	6.240 E5	3.35
46)	AR1260-A	1.460	1.469	1.501	1.561	1.660	1.717	1.562 E6	6.81
47)	AR1260-B	8.611	8.560	8.578	8.693	9.139	9.353	8.822 E5	3.83

9.8.36



# Initial Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: GXX3901-ICC3901

Account: ENSRMAA AECOM, INC.

Lab FileID: XX100286.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

48)	AR1260-C	1.080	0.903	0.902	0.906	0.980	1.012	0.964	E6	7.61
49)	AR1260-D	2.479	2.427	2.453	2.418	2.634	2.718	2.521	E6	4.93
50)	AR1260-E	0.701	0.789	0.833	0.916	1.006	1.060	0.884	E6	15.34
51) S	Decachlorobiphenyl	2.629	2.581	2.427	2.433	2.516	2.554	2.523	E7	3.22

Signal #2

1) S	Tetrachloro-m-xylene	6.573	6.169	6.096	6.744	6.620	6.680	6.480	E6	4.27
2)	AR1221-A				4.827			4.827	E4	0.00
3)	AR1221-B				6.377			6.377	E4	0.00
4)	AR1221-C				1.586			1.586	E5	0.00
5)	AR1221-D				2.771			2.771	E4	0.00
6)	AR1221-E				2.921			2.921	E4	0.00
7)	AR1232-A				1.462			1.462	E5	0.00
8)	AR1232-B				1.172			1.172	E5	0.00
9)	AR1232-C				2.438			2.438	E5	0.00
10)	AR1232-D				5.914			5.914	E4	0.00
11)	AR1232-E				6.950			6.950	E4	0.00
12)	AR1242-A				2.027			2.027	E5	0.00
13)	AR1242-B				4.492			4.492	E5	0.00
14)	AR1242-C				1.862			1.862	E5	0.00
15)	AR1242-D				1.380			1.380	E5	0.00
16)	AR1242-E				1.712			1.712	E5	0.00
17)	AR1248-A				9.539			9.539	E4	0.00
18)	AR1248-B				2.694			2.694	E5	0.00
19)	AR1248-C				1.635			1.635	E5	0.00
20)	AR1248-D				2.195			2.195	E5	0.00
21)	AR1248-E				2.492			2.492	E5	0.00
22)	AR1248-F				3.049			3.049	E5	0.00
23)	AR1248-G				3.336			3.336	E5	0.00
24)	AR1254-A				2.584			2.584	E5	0.00
25)	AR1254-B				2.794			2.794	E5	0.00
26)	AR1254-C				1.209			1.209	E5	0.00
27)	AR1254-D				2.232			2.232	E5	0.00
28)	AR1254-E				3.186			3.186	E5	0.00
29)	AR1254-F				2.462			2.462	E5	0.00
30)	AR1254-G				4.434			4.434	E5	0.00
31)	AR1262-A				3.146			3.146	E5	0.00
32)	AR1262-B				4.738			4.738	E5	0.00
33)	AR1262-C				4.265			4.265	E5	0.00
34)	AR1262-D				9.321			9.321	E5	0.00
35)	AR1262-E				6.572			6.572	E5	0.00
36)	AR1268-A				1.138			1.138	E6	0.00
37)	AR1268-B				1.311			1.311	E6	0.00
38)	AR1268-C				9.632			9.632	E5	0.00
39)	AR1268-D				3.689			3.689	E5	0.00
40)	AR1268-E				2.823			2.823	E6	0.00
41)	AR1016-A	1.375	1.225	1.185	1.109	1.119	1.107	1.187	E5	8.75
42)	AR1016-B	2.744	2.399	2.287	2.241	2.229	2.219	2.353	E5	8.61
43)	AR1016-C	5.794	5.151	4.988	5.039	5.112	5.145	5.205	E5	5.68
44)	AR1016-D	1.378	1.226	1.188	1.191	1.210	1.215	1.234	E5	5.81
45)	AR1016-E	1.755	1.607	1.527	1.518	1.543	1.551	1.584	E5	5.67
46)	AR1260-A	7.886	5.560	5.251	5.314	5.369	5.461	5.807	E5	17.64
47)	AR1260-B	4.037	3.355	3.136	3.117	3.110	3.129	3.314	E5	11.05
48)	AR1260-C	3.627	3.168	3.103	3.119	3.143	3.182	3.224	E5	6.19
49)	AR1260-D	7.870	7.575	7.463	7.780	7.899	7.939	7.754	E5	2.49
50)	AR1260-E	5.336	5.115	4.992	5.222	5.302	5.419	5.231	E5	2.98
51) S	Decachlorobiphenyl	9.201	8.573	7.863	7.908	7.988	8.046	8.263	E6	6.37

(#) = Out of Range

9.8.36  
9



## Initial Calibration Summary

**Job Number:** JA58750

**Account:** ENSRMAA AECOM, INC.

**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

**Sample:** GXX3901-ICC3901

**Lab FileID:** XX100286.D

Page 3 of 3

PCB3901.M

Tue Oct 26 11:28:37 2010

GCXX

9.8.36

9

**Initial Calibration Verification**

Page 1 of 3

**Job Number:** JA58750**Sample:** GXX3901-ICV3901**Account:** ENSRMAA AECOM, INC.**Lab FileID:** XX100289.D**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GXX3901\XX100289.D\ECD1A.CH Vial: 15  
Signal #2 : C:\HPCHEM\1\DATA\GXX3901\XX100289.D\ECD2B.CH  
Acq On : 25 Oct 2010 8:53 pm Operator: annaz  
Sample : icv3901-1000 Inst : GCXX  
Misc : OP46308,GXX3901,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\HPCHEM\1\METHODS\PCB3901.M (Chemstation Integrator)  
Title :  
Last Update : Tue Oct 26 11:24:49 2010  
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT	Window
1 S	Tetrachloro-m-xylene			-----	NA-----			
2	AR1221-A			-----	NA-----			
3	AR1221-B			-----	NA-----			
4	AR1221-C			-----	NA-----			
5	AR1221-D			-----	NA-----			
6	AR1221-E			-----	NA-----			
7	AR1232-A			-----	NA-----			
8	AR1232-B			-----	NA-----			
9	AR1232-C			-----	NA-----			
10	AR1232-D			-----	NA-----			
11	AR1232-E			-----	NA-----			
12	AR1242-A			-----	NA-----			
13	AR1242-B			-----	NA-----			
14	AR1242-C			-----	NA-----			
15	AR1242-D			-----	NA-----			
16	AR1242-E			-----	NA-----			
17	AR1248-A			-----	NA-----			
18	AR1248-B			-----	NA-----			
19	AR1248-C			-----	NA-----			
20	AR1248-D			-----	NA-----			
21	AR1248-E			-----	NA-----			
22	AR1248-F			-----	NA-----			
23	AR1248-G			-----	NA-----			
24	AR1254-A			-----	NA-----			
25	AR1254-B			-----	NA-----			
26	AR1254-C			-----	NA-----			
27	AR1254-D			-----	NA-----			
28	AR1254-E			-----	NA-----			
29	AR1254-F			-----	NA-----			
30	AR1254-G			-----	NA-----			
31	AR1262-A			-----	NA-----			
32	AR1262-B			-----	NA-----			
33	AR1262-C			-----	NA-----			
34	AR1262-D			-----	NA-----			
35	AR1262-E			-----	NA-----			
36	AR1268-A			-----	NA-----			
37	AR1268-B			-----	NA-----			
38	AR1268-C			-----	NA-----			
39	AR1268-D			-----	NA-----			
40	AR1268-E			-----	NA-----			
41	AR1016-A	381.192	370.537 E3	2.8	99	0.00	2.52-	2.58

9.8.37  
9

# Initial Calibration Verification

Page 2 of 3

Job Number: JA58750

Sample: GXX3901-ICV3901

Account: ENSRMAA AECOM, INC.

Lab FileID: XX100289.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1016-B	709.780	692.163	E3	2.5	101	0.00	2.90-	2.96
43	AR1016-C	1.538	1.509	E6	1.9	100	0.00	3.43-	3.49
44	AR1016-D	590.285	567.119	E3	3.9	100	0.00	3.59-	3.65
45	AR1016-E	624.048	589.150	E3	5.6	100	0.00	4.09-	4.15
46	AR1260-A	1.562	1.483	E6	5.1	95	0.00	6.55-	6.61
47	AR1260-B	882.230	865.549	E3	1.9	100	0.00	6.72-	6.78
48	AR1260-C	0.964	0.918	E6	4.8	101	0.00	7.08-	7.14
49	AR1260-D	2.521	2.492	E6	1.2	103	0.00	7.55-	7.61
50	AR1260-E	884.019	901.565	E3	-2.0	98	0.00	7.97-	8.03
51 S	Decachlorobiphenyl				-----NA-----				

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene				-----NA-----				
2	AR1221-A				-----NA-----				
3	AR1221-B				-----NA-----				
4	AR1221-C				-----NA-----				
5	AR1221-D				-----NA-----				
6	AR1221-E				-----NA-----				
7	AR1232-A				-----NA-----				
8	AR1232-B				-----NA-----				
9	AR1232-C				-----NA-----				
10	AR1232-D				-----NA-----				
11	AR1232-E				-----NA-----				
12	AR1242-A				-----NA-----				
13	AR1242-B				-----NA-----				
14	AR1242-C				-----NA-----				
15	AR1242-D				-----NA-----				
16	AR1242-E				-----NA-----				
17	AR1248-A				-----NA-----				
18	AR1248-B				-----NA-----				
19	AR1248-C				-----NA-----				
20	AR1248-D				-----NA-----				
21	AR1248-E				-----NA-----				
22	AR1248-F				-----NA-----				
23	AR1248-G				-----NA-----				
24	AR1254-A				-----NA-----				
25	AR1254-B				-----NA-----				
26	AR1254-C				-----NA-----				
27	AR1254-D				-----NA-----				
28	AR1254-E				-----NA-----				
29	AR1254-F				-----NA-----				
30	AR1254-G				-----NA-----				
31	AR1262-A				-----NA-----				
32	AR1262-B				-----NA-----				
33	AR1262-C				-----NA-----				
34	AR1262-D				-----NA-----				
35	AR1262-E				-----NA-----				
36	AR1268-A				-----NA-----				
37	AR1268-B				-----NA-----				
38	AR1268-C				-----NA-----				
39	AR1268-D				-----NA-----				
40	AR1268-E				-----NA-----				
41	AR1016-A	118.655	117.607	E3	0.9	106	0.00	3.45-	3.51
42	AR1016-B	235.309	226.850	E3	3.6	101	0.00	3.99-	4.05
43	AR1016-C	520.491	505.444	E3	2.9	100	0.00	4.63-	4.69
44	AR1016-D	123.447	118.326	E3	4.1	99	0.00	4.97-	5.03
45	AR1016-E	158.355	154.033	E3	2.7	101	0.00	5.49-	5.55
46	AR1260-A	580.672	501.914	E3	13.6	94	0.00	8.25-	8.31
47	AR1260-B	331.417	305.930	E3	7.7	98	0.00	8.39-	8.45

9.8.37  
9

# Initial Calibration Verification

Page 3 of 3

Job Number: JA58750

Sample: GXX3901-ICV3901

Account: ENSRMAA AECOM, INC.

Lab FileID: XX100289.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

48	AR1260-C	322.356	310.020	E3	3.8	99	0.00	8.84- 8.90
49	AR1260-D	775.440	773.701	E3	0.2	99	0.00	9.23- 9.29
50	AR1260-E	523.098	505.912	E3	3.3	97	0.00	9.79- 9.85
51 S	Decachlorobiphenyl	-----NA-----						

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

XX100286.D PCB3901.M

Tue Oct 26 11:28:40 2010 GCXX

9.8.37

9

## Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750

Sample: GXX3909-CC3901

Account: ENSRMAA AECOM, INC.

Lab FileID: XX100602.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GXX3909\XX100602.D\ECD1A.CH Vial: 1  
Signal #2 : C:\HPCHEM\1\DATA\GXX3909\XX100602.D\ECD2B.CH  
Acq On : 3 Nov 2010 9:17 am Operator: annaz  
Sample : cc3901-500 Inst : GCXX  
Misc : OP46456,GXX3909,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\HPCHEM\1\METHODS\PCB3901.M (Chemstation Integrator)  
Title :  
Last Update : Tue Oct 26 11:24:49 2010  
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.663	16.973 E6	13.7	92	0.00	2.18- 2.24
2	AR1221-A			-----NA-----			
3	AR1221-B			-----NA-----			
4	AR1221-C			-----NA-----			
5	AR1221-D			-----NA-----			
6	AR1221-E			-----NA-----			
7	AR1232-A			-----NA-----			
8	AR1232-B			-----NA-----			
9	AR1232-C			-----NA-----			
10	AR1232-D			-----NA-----			
11	AR1232-E			-----NA-----			
12	AR1242-A			-----NA-----			
13	AR1242-B			-----NA-----			
14	AR1242-C			-----NA-----			
15	AR1242-D			-----NA-----			
16	AR1242-E			-----NA-----			
17	AR1248-A			-----NA-----			
18	AR1248-B			-----NA-----			
19	AR1248-C			-----NA-----			
20	AR1248-D			-----NA-----			
21	AR1248-E			-----NA-----			
22	AR1248-F			-----NA-----			
23	AR1248-G			-----NA-----			
24	AR1254-A			-----NA-----			
25	AR1254-B			-----NA-----			
26	AR1254-C			-----NA-----			
27	AR1254-D			-----NA-----			
28	AR1254-E			-----NA-----			
29	AR1254-F			-----NA-----			
30	AR1254-G			-----NA-----			
31	AR1262-A			-----NA-----			
32	AR1262-B			-----NA-----			
33	AR1262-C			-----NA-----			
34	AR1262-D			-----NA-----			
35	AR1262-E			-----NA-----			
36	AR1268-A			-----NA-----			
37	AR1268-B			-----NA-----			
38	AR1268-C			-----NA-----			
39	AR1268-D			-----NA-----			
40	AR1268-E			-----NA-----			
41	AR1016-A	381.192	357.778 E3	6.1	93	0.00	2.52- 2.58

9.8.38

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# Continuing Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: GXX3909-CC3901

Account: ENSRMAA AECOM, INC.

Lab FileID: XX100602.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1016-B	709.780	632.582	E3	10.9	91	0.00	2.89-	2.95
43	AR1016-C	1.538	1.376	E6	10.5	93	0.00	3.43-	3.49
44	AR1016-D	590.285	537.669	E3	8.9	93	0.00	3.59-	3.65
45	AR1016-E	624.048	585.917	E3	6.1	95	0.00	4.09-	4.15
46	AR1260-A	1.562	1.502	E6	3.8	100	0.00	6.55-	6.61
47	AR1260-B	882.230	847.939	E3	3.9	99	0.00	6.72-	6.78
48	AR1260-C	0.964	0.898	E6	6.8	100	0.00	7.07-	7.13
49	AR1260-D	2.521	2.267	E6	10.1	92	0.00	7.54-	7.60
50	AR1260-E	884.019	887.973	E3	-0.4	107	-0.01	7.96-	8.02
51 S	Decachlorobiphenyl	25.231	22.249	E6	11.8	92	0.00	9.61-	9.67

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	6.480	5.724	E6	11.7	94	0.00	2.84-	2.90
2	AR1221-A								
3	AR1221-B								
4	AR1221-C								
5	AR1221-D								
6	AR1221-E								
7	AR1232-A								
8	AR1232-B								
9	AR1232-C								
10	AR1232-D								
11	AR1232-E								
12	AR1242-A								
13	AR1242-B								
14	AR1242-C								
15	AR1242-D								
16	AR1242-E								
17	AR1248-A								
18	AR1248-B								
19	AR1248-C								
20	AR1248-D								
21	AR1248-E								
22	AR1248-F								
23	AR1248-G								
24	AR1254-A								
25	AR1254-B								
26	AR1254-C								
27	AR1254-D								
28	AR1254-E								
29	AR1254-F								
30	AR1254-G								
31	AR1262-A								
32	AR1262-B								
33	AR1262-C								
34	AR1262-D								
35	AR1262-E								
36	AR1268-A								
37	AR1268-B								
38	AR1268-C								
39	AR1268-D								
40	AR1268-E								
41	AR1016-A	118.655	103.609	E3	12.7	87	0.00	3.44-	3.50
42	AR1016-B	235.309	217.956	E3	7.4	95	-0.01	3.98-	4.04
43	AR1016-C	520.491	474.139	E3	8.9	95	0.00	4.62-	4.68
44	AR1016-D	123.447	110.702	E3	10.3	93	-0.01	4.95-	5.01
45	AR1016-E	158.355	147.255	E3	7.0	96	-0.01	5.48-	5.54
46	AR1260-A	580.672	525.939	E3	9.4	100	-0.01	8.24-	8.30
47	AR1260-B	331.417	311.985	E3	5.9	99	-0.01	8.38-	8.44

9.8.38

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# Continuing Calibration Summary

Page 3 of 3

Job Number: JA58750

Sample: GXX3909-CC3901

Account: ENSRMAA AECOM, INC.

Lab FileID: XX100602.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

48	AR1260-C	322.356	303.638	E3	5.8	98	-0.01	8.82- 8.88
49	AR1260-D	775.440	752.920	E3	2.9	101	-0.01	9.22- 9.28
50	AR1260-E	523.098	508.594	E3	2.8	102	-0.01	9.78- 9.84
51 S	Decachlorobiphenyl	8.263	7.724	E6	6.5	98	-0.01	11.57-11.63

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

XX100285.D PCB3901.M

Wed Nov 03 14:43:17 2010 GCXX

9.8.38

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**Continuing Calibration Summary**

Page 1 of 3

**Job Number:** JA58750**Sample:** GXX3909-CC3901**Account:** ENSRMAA AECOM, INC.**Lab FileID:** XX100613.D**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

## Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GXX3909\XX100613.D\ECD1A.CH Vial: 12  
Signal #2 : C:\HPCHEM\1\DATA\GXX3909\XX100613.D\ECD2B.CH  
Acq On : 3 Nov 2010 2:28 pm Operator: annaz  
Sample : cc3901-1000 Inst : GCXX  
Misc : OP46323,GXX3909,17.0,,,10,1 Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\HPCHEM\1\METHODS\PCB3901.M (Chemstation Integrator)  
Title :  
Last Update : Tue Oct 26 11:24:49 2010  
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.663	18.530 E6	5.8	96	0.00	2.17- 2.23
2	AR1221-A			-----NA-----			
3	AR1221-B			-----NA-----			
4	AR1221-C			-----NA-----			
5	AR1221-D			-----NA-----			
6	AR1221-E			-----NA-----			
7	AR1232-A			-----NA-----			
8	AR1232-B			-----NA-----			
9	AR1232-C			-----NA-----			
10	AR1232-D			-----NA-----			
11	AR1232-E			-----NA-----			
12	AR1242-A			-----NA-----			
13	AR1242-B			-----NA-----			
14	AR1242-C			-----NA-----			
15	AR1242-D			-----NA-----			
16	AR1242-E			-----NA-----			
17	AR1248-A			-----NA-----			
18	AR1248-B			-----NA-----			
19	AR1248-C			-----NA-----			
20	AR1248-D			-----NA-----			
21	AR1248-E			-----NA-----			
22	AR1248-F			-----NA-----			
23	AR1248-G			-----NA-----			
24	AR1254-A			-----NA-----			
25	AR1254-B			-----NA-----			
26	AR1254-C			-----NA-----			
27	AR1254-D			-----NA-----			
28	AR1254-E			-----NA-----			
29	AR1254-F			-----NA-----			
30	AR1254-G			-----NA-----			
31	AR1262-A			-----NA-----			
32	AR1262-B			-----NA-----			
33	AR1262-C			-----NA-----			
34	AR1262-D			-----NA-----			
35	AR1262-E			-----NA-----			
36	AR1268-A			-----NA-----			
37	AR1268-B			-----NA-----			
38	AR1268-C			-----NA-----			
39	AR1268-D			-----NA-----			
40	AR1268-E			-----NA-----			
41	AR1016-A	381.192	365.438 E3	4.1	98	0.00	2.52- 2.58

9.8.39





# Continuing Calibration Summary

Page 2 of 3

Job Number: JA58750

Sample: GXX3909-CC3901

Account: ENSRMAA AECOM, INC.

Lab FileID: XX100613.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

42	AR1016-B	709.780	672.447	E3	5.3	98	0.00	2.89-	2.95
43	AR1016-C	1.538	1.476	E6	4.0	98	-0.01	3.42-	3.48
44	AR1016-D	590.285	569.914	E3	3.5	101	0.00	3.58-	3.64
45	AR1016-E	624.048	610.846	E3	2.1	104	-0.01	4.08-	4.14
46	AR1260-A	1.562	1.607	E6	-2.9	103	-0.01	6.54-	6.60
47	AR1260-B	882.230	884.083	E3	-0.2	102	-0.01	6.71-	6.77
48	AR1260-C	0.964	0.957	E6	0.7	106	-0.01	7.06-	7.12
49	AR1260-D	2.521	2.525	E6	-0.2	104	-0.02	7.53-	7.59
50	AR1260-E	884.019	995.092	E3	-12.6	109	-0.02	7.95-	8.01
51 S	Decachlorobiphenyl	25.231	24.888	E6	1.4	102	-0.02	9.60-	9.66

\*\*\*\*\* Signal #2 \*\*\*\*\*

1 S	Tetrachloro-m-xylene	6.480	6.459	E6	0.3	96	0.00	2.84-	2.90
2	AR1221-A							-----NA-----	
3	AR1221-B							-----NA-----	
4	AR1221-C							-----NA-----	
5	AR1221-D							-----NA-----	
6	AR1221-E							-----NA-----	
7	AR1232-A							-----NA-----	
8	AR1232-B							-----NA-----	
9	AR1232-C							-----NA-----	
10	AR1232-D							-----NA-----	
11	AR1232-E							-----NA-----	
12	AR1242-A							-----NA-----	
13	AR1242-B							-----NA-----	
14	AR1242-C							-----NA-----	
15	AR1242-D							-----NA-----	
16	AR1242-E							-----NA-----	
17	AR1248-A							-----NA-----	
18	AR1248-B							-----NA-----	
19	AR1248-C							-----NA-----	
20	AR1248-D							-----NA-----	
21	AR1248-E							-----NA-----	
22	AR1248-F							-----NA-----	
23	AR1248-G							-----NA-----	
24	AR1254-A							-----NA-----	
25	AR1254-B							-----NA-----	
26	AR1254-C							-----NA-----	
27	AR1254-D							-----NA-----	
28	AR1254-E							-----NA-----	
29	AR1254-F							-----NA-----	
30	AR1254-G							-----NA-----	
31	AR1262-A							-----NA-----	
32	AR1262-B							-----NA-----	
33	AR1262-C							-----NA-----	
34	AR1262-D							-----NA-----	
35	AR1262-E							-----NA-----	
36	AR1268-A							-----NA-----	
37	AR1268-B							-----NA-----	
38	AR1268-C							-----NA-----	
39	AR1268-D							-----NA-----	
40	AR1268-E							-----NA-----	
41	AR1016-A	118.655	118.496	E3	0.1	107	-0.01	3.44-	3.50
42	AR1016-B	235.309	232.677	E3	1.1	104	-0.01	3.98-	4.04
43	AR1016-C	520.491	523.090	E3	-0.5	104	-0.01	4.62-	4.68
44	AR1016-D	123.447	123.178	E3	0.2	103	-0.01	4.95-	5.01
45	AR1016-E	158.355	157.926	E3	0.3	104	-0.01	5.48-	5.54
46	AR1260-A	580.672	569.278	E3	2.0	107	-0.01	8.23-	8.29
47	AR1260-B	331.417	335.499	E3	-1.2	108	-0.01	8.38-	8.44

9.8.39

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## Continuing Calibration Summary

Page 3 of 3

Job Number: JA58750

Sample: GXX3909-CC3901

Account: ENSRMAA AECOM, INC.

Lab FileID: XX100613.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

48	AR1260-C	322.356	334.466	E3	-3.8	107	-0.02	8.82- 8.88
49	AR1260-D	775.440	838.514	E3	-8.1	108	-0.02	9.22- 9.28
50	AR1260-E	523.098	565.069	E3	-8.0	108	-0.02	9.77- 9.83
51 S	Decachlorobiphenyl	8.263	8.376	E6	-1.4	106	-0.02	11.57-11.63

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

XX100286.D PCB3901.M

Wed Nov 03 15:15:31 2010 GCXX

9.8.39

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