

Technical Report for

AECOM, INC.

Bell Bend Nuclear Power Plant, Salem Township, PA

60160208

Accutest Job Number: JA58750A

Sampling Dates: 10/12/10 - 10/13/10

Report to:

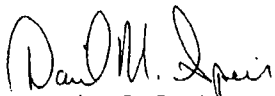
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Total number of pages in report: 281



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


David N. Speis
VP, Laboratory Director

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Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

Accutest Laboratories

Report of Analysis

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3.4

Client Sample ID: BBNPP-CW22-C

Lab Sample ID: JA58900-4

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8270C SW846 3550B

Percent Solids: 78.1

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P735.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	730	66	ug/kg	
95-57-8	2-Chlorophenol	ND	180	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	59	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	61	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	730	45	ug/kg	
95-48-7	2-Methylphenol	ND	73	42	ug/kg	
	3&4-Methylphenol	ND	73	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	39	ug/kg	
100-02-7	4-Nitrophenol	ND	360	62	ug/kg	
87-86-5	Pentachlorophenol	ND	360	62	ug/kg	
108-95-2	Phenol	ND	73	38	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	38	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	34	ug/kg	
83-32-9	Acenaphthene	ND	36	11	ug/kg	
208-96-8	Acenaphthylene	ND	36	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.4	ug/kg	
62-53-3	Aniline	ND	73	7.7	ug/kg	
120-12-7	Anthracene	ND	36	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.2	ug/kg	
92-87-5	Benzidine	ND	730	140	ug/kg	
56-55-3	Benzo(a)anthracene	25.5	36	12	ug/kg	J
50-32-8	Benzo(a)pyrene	19.3	36	11	ug/kg	J
205-99-2	Benzo(b)fluoranthene	19.1	36	12	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	36	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	24.8	36	14	ug/kg	J
85-68-7	Butyl benzyl phthalate	ND	73	21	ug/kg	
100-51-6	Benzyl Alcohol	ND	73	15	ug/kg	
92-52-4	1,1'-Biphenyl	ND	73	4.2	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	ND	73	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-CW22-C	Date Sampled: 10/14/10
Lab Sample ID: JA58900-4	Date Received: 10/14/10
Matrix: SO - Soil	Percent Solids: 78.1
Method: SW846 8270C SW846 3550B	
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	29.5	36	12	ug/kg	J
111-44-4	bis(2-Chloroethyl)ether	ND	73	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	73	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	73	11	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	73	11	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	73	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	73	9.8	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	73	8.1	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	73	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	73	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	12	ug/kg	
132-64-9	Dibenzofuran	ND	73	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	73	8.1	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	73	18	ug/kg	
84-66-2	Diethyl phthalate	ND	73	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	73	32	ug/kg	
206-44-0	Fluoranthene	40.2	36	16	ug/kg	
86-73-7	Fluorene	ND	36	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	73	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	730	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	13	ug/kg	
78-59-1	Isophorone	ND	73	9.8	ug/kg	
91-57-6	2-Methylnaphthalene	ND	73	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	15	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	36	10	ug/kg	
98-95-3	Nitrobenzene	ND	73	11	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	73	32	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	73	8.9	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	22.9	36	17	ug/kg	J
129-00-0	Pyrene	42.0	36	14	ug/kg	
110-86-1	Pyridine	ND	73	15	ug/kg	
91-22-5	Quinoline	ND	180	34	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	73	9.7	ug/kg	

ND = Not detected MDL - Method Detection Limit
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Report of Analysis

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3.4

Client Sample ID: BBNPP-CW22-C	
Lab Sample ID: JA58900-4	Date Sampled: 10/14/10
Matrix: SO - Soil	Date Received: 10/14/10
Method: SW846 8270C SW846 3550B	Percent Solids: 78.1
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		30-109%
4165-62-2	Phenol-d5	38%		28-108%
118-79-6	2,4,6-Tribromophenol	63%		28-125%
4165-60-0	Nitrobenzene-d5	49%		28-113%
321-60-8	2-Fluorobiphenyl	54%		38-107%
1718-51-0	Terphenyl-d14	80%		31-116%

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Accutest Laboratories

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3.4

Client Sample ID: BBNPP-CW22-C

Lab Sample ID: JA58900-4

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8141B SW846 3550B

Percent Solids: 78.1

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZZ11463.D	1	10/21/10	AFL	10/20/10	F:OP34758	F:GZZ439
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

OP Pesticide List

CAS No.	Compound	Result	RL	MDL	Units	Q
2921-88-2	Chlorpyrifos	ND	85	21	ug/kg	
333-41-5	Diazinon	ND	85	21	ug/kg	
62-73-7	Dichlorvos	ND	85	21	ug/kg	
60-51-5	Dimethoate	ND	85	21	ug/kg	
298-04-4	Disulfoton	ND	85	42	ug/kg	
56-38-2	Ethyl Parathion	ND	85	21	ug/kg	
121-75-5	Malathion	ND	85	21	ug/kg	
298-00-0	Methyl Parathion	ND	85	21	ug/kg	
298-02-2	Phorate	ND	85	21	ug/kg	
299-84-3	Ronnel	ND	85	21	ug/kg	
3689-24-5	Sulfotep	ND	85	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
115-86-6	Triphenyl phosphate	105%		48-133%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

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 N = Indicates presumptive evidence of a compound

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Client Sample ID: BBNPP-CW22-C

Lab Sample ID: JA58900-4

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8151 SW846 3550B

Percent Solids: 78.1

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW95580.D	1	11/03/10	TDR	10/27/10	OP46377	GWW3344
Run #2 ^a	WW95627.D	1	11/04/10	TDR	10/30/10	OP46441	GWW3346

Run #	Initial Weight	Final Volume
Run #1	35.4 g	10.0 ml
Run #2	35.0 g	10.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	18	5.8	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	3.6	0.69	ug/kg	
93-76-5	2,4,5-T	ND	3.6	1.4	ug/kg	
75-99-0	Dalapon	ND	3.6	2.5	ug/kg	
88-85-7	Dinoseb	ND	18	4.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	38%	83%	13-146%
19719-28-9	2,4-DCAA	78%	47%	13-146%

(a) Confirmation run.

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Accutest Laboratories

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3.4

Client Sample ID: BBNPP-CW22-C

Lab Sample ID: JA58900-4

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8315 SW846 3510C

Percent Solids: 78.1

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	VU28483.D	1	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1288
Run #2 ^a	VU28523.D	10	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1289

	Initial Weight	Final Volume
Run #1	25.0 g	1.0 ml
Run #2	25.0 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
50-00-0	Formaldehyde	23400 ^b	10000	1500	ug/kg	
75-07-0	Acetaldehyde	255	1000	60	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
123-72-8	Butyraldehyde	212% ^c	153%	18-186%
123-72-8	Butyraldehyde	214% ^c	167%	18-186%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Result is from Run# 2

(c) Outside control limits due to possible matrix interference.

ND = Not detected MDL - Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.4

Client Sample ID: BBNPP-CW22-C

Lab Sample ID: JA58900-4

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8081A SW846 3545

Percent Solids: 78.1

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G943.D	1	11/01/10	OPM	10/27/10	OP46373	G4G27
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.5	0.67	ug/kg	
319-84-6	alpha-BHC	ND	1.5	0.46	ug/kg	
319-85-7	beta-BHC	ND	1.5	0.73	ug/kg	
319-86-8	delta-BHC	ND	1.5	0.41	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.5	0.46	ug/kg	
12789-03-6	Chlordane	ND	38	11	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.5	0.51	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.5	0.59	ug/kg	
60-57-1	Dieldrin	ND	1.5	0.51	ug/kg	
72-54-8	4,4'-DDD	ND	1.5	0.64	ug/kg	
72-55-9	4,4'-DDE	ND	1.5	0.52	ug/kg	
50-29-3	4,4'-DDT	ND	1.5	0.63	ug/kg	
72-20-8	Endrin	ND	1.5	0.52	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.5	0.57	ug/kg	
959-98-8	Endosulfan-I	ND	1.5	0.51	ug/kg	
33213-65-9	Endosulfan-II	ND	1.5	0.57	ug/kg	
76-44-8	Heptachlor	ND	1.5	0.68	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.5	0.58	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.67	ug/kg	
8001-35-2	Toxaphene	ND	19	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	56%		23-137%
877-09-8	Tetrachloro-m-xylene	54%		23-137%
2051-24-3	Decachlorobiphenyl	76%		22-160%
2051-24-3	Decachlorobiphenyl	75%		22-160%

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.4

Client Sample ID:	BBNPP-CW22-C				
Lab Sample ID:	JA58900-4			Date Sampled:	10/14/10
Matrix:	SO - Soil			Date Received:	10/14/10
Method:	SW846 8082 SW846 3545			Percent Solids:	78.1
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF93920.D	1	10/28/10	VDT	10/27/10	OP46374	GEF4072
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	13	ug/kg	
11104-28-2	Aroclor 1221	ND	38	25	ug/kg	
11141-16-5	Aroclor 1232	ND	38	12	ug/kg	
53469-21-9	Aroclor 1242	ND	38	14	ug/kg	
12672-29-6	Aroclor 1248	ND	38	7.5	ug/kg	
11097-69-1	Aroclor 1254	ND	38	9.5	ug/kg	
11096-82-5	Aroclor 1260	ND	38	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		22-141%
877-09-8	Tetrachloro-m-xylene	79%		22-141%
2051-24-3	Decachlorobiphenyl	113%		18-163%
2051-24-3	Decachlorobiphenyl	123%		18-163%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-CW22-C

Lab Sample ID: JA58900-4

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Percent Solids: 78.1

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.4	2.4	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Arsenic	5.7	2.4	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Barium	35.9	24	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Beryllium	0.45	0.24	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Boron	< 12	12	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cadmium	< 0.61	0.61	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Chromium	13.4	1.2	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cobalt	10.1	6.1	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Copper	17.0	3.1	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Lead	13.1	2.4	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Manganese	277	1.8	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Mercury	< 0.040	0.040	mg/kg	1	11/07/10	11/08/10 JF	SW846 7471A ²	SW846 7471A ⁴
Nickel	24.0	4.9	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Selenium	< 2.4	2.4	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Silver	< 0.61	0.61	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Thallium	< 1.2	1.2	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Tin	< 6.1	6.1	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Vanadium	14.2	6.1	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Zinc	62.3	2.4	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³

(1) Instrument QC Batch: MA25281

(2) Instrument QC Batch: MA25311

(3) Prep QC Batch: MP55449

(4) Prep QC Batch: MP55530

RL = Reporting Limit

Report of Analysis

Client Sample ID: BBNPP-CW22-C

Lab Sample ID: JA58900-4

Matrix: SO - Soil

Date Sampled: 10/14/10

Date Received: 10/14/10

Percent Solids: 78.1

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 26	26	mg/kg	1	11/01/10 22:05	MS	EPA 300/SW846 9056
Chromium, Hexavalent	< 0.51	0.51	mg/kg	1	11/03/10 12:31	RI	SW846 3060A/7196A
Chromium, Trivalent ^a	13.4	1.7	mg/kg	1	11/03/10 12:31	RI	SW846 6010/7196A M
Cyanide	< 0.27	0.27	mg/kg	1	10/25/10 14:36	NP	SW846 9012 M/LACHAT
Nitrogen, Nitrate + Nitrite	< 23	23	mg/kg	1	10/28/10 11:01	NP	EPA 353.2 M/LACHAT
Redox Potential Vs H2	428		mv	1	11/03/10	SS	ASTM D1498-76M
Solids, Percent	78.1		%	1	11/03/10	KH	SM18 2540G
Sulfate	234	130	mg/kg	1	11/01/10 22:05	MS	EPA 300/SW846 9056
Total Organic Carbon	19800	1300	mg/kg	1	11/02/10 12:00	SJG	CORP ENG 81M/SW9060M
pH	6.58		su	1	11/03/10	SS	SW846 9045C,D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

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3.5

**Client Sample ID:** BBNPP-C-EB**Lab Sample ID:** JA58900-5**Date Sampled:** 10/14/10**Matrix:** AQ - Equipment Blank**Date Received:** 10/14/10**Method:** DAI BY GC/MS 8260SIM**Percent Solids:** n/a**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H100524.D	1	10/20/10	KLS	n/a	n/a	EH4372
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.25	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	99%		50-150%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-C-EB	Date Sampled: 10/14/10
Lab Sample ID: JA58900-5	Date Received: 10/14/10
Matrix: AQ - Equipment Blank	Percent Solids: n/a
Method: SW846 8260B	
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V108527.D	1	10/21/10	JLI	n/a	n/a	VV4578
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.9	ug/l	
75-05-8	Acetonitrile	ND	100	31	ug/l	
107-02-8	Acrolein	ND	50	23	ug/l	
107-13-1	Acrylonitrile	ND	50	3.6	ug/l	
107-05-1	Allyl chloride	ND	5.0	1.6	ug/l	
71-43-2	Benzene	ND	1.0	0.23	ug/l	
100-44-7	Benzyl Chloride	ND	5.0	0.56	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.33	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	4.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.30	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	110	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.47	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.21	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.74	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
126-99-8	Chloroprene	ND	5.0	0.93	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.31	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-C-EB		
Lab Sample ID:	JA58900-5	Date Sampled:	10/14/10
Matrix:	AQ - Equipment Blank	Date Received:	10/14/10
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	94	ug/l	
106-89-8	Epichlorohydrin	ND	100	6.1	ug/l	
141-78-6	Ethyl Acetate	ND	5.0	2.0	ug/l	
60-29-7	Ethyl Ether	ND	5.0	0.72	ug/l	
97-63-2	Ethyl methacrylate	ND	10	0.48	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
110-54-3	Hexane	ND	5.0	0.54	ug/l	
78-83-1	Isobutyl alcohol	ND	50	20	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.57	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
80-62-6	Methyl methacrylate	ND	10	1.3	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.86	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.30	ug/l	
79-46-9	2-Nitropropane	ND	10	1.6	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.58	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
108-70-3	1,3,5-Trichlorobenzene	ND	5.0		ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.24	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.49	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.28	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-05-4	Vinyl Acetate	ND	10	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	93%		64-135%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: BBNPP-C-EB	
Lab Sample ID: JA58900-5	Date Sampled: 10/14/10
Matrix: AQ - Equipment Blank	Date Received: 10/14/10
Method: SW846 8260B	Percent Solids: n/a
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		76-117%
460-00-4	4-Bromofluorobenzene	88%		72-122%

ND = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-C-EB

Lab Sample ID: JA58900-5

Date Sampled: 10/14/10

Matrix: AQ - Equipment Blank

Date Received: 10/14/10

Method: SW846 8270C SW846 3510C

Percent Solids: n/a

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F92534.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333
Run #2							

Run #	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	21	1.4	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	1.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	1.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.3	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	1.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	0.78	ug/l	
95-48-7	2-Methylphenol	ND	2.1	1.2	ug/l	
	3&4-Methylphenol	ND	2.1	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	1.3	ug/l	
100-02-7	4-Nitrophenol	ND	11	0.87	ug/l	
87-86-5	Pentachlorophenol	ND	11	0.84	ug/l	
108-95-2	Phenol	ND	2.1	0.61	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.3	0.85	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	1.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	1.3	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.39	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.29	ug/l	
98-86-2	Acetophenone	ND	2.1	0.42	ug/l	
62-53-3	Aniline	ND	2.1	0.24	ug/l	
120-12-7	Anthracene	ND	1.1	0.17	ug/l	
1912-24-9	Atrazine	ND	5.3	0.41	ug/l	
92-87-5	Benzidine	ND	21	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.13	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.26	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.13	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.26	ug/l	
100-51-6	Benzyl Alcohol	ND	2.1	0.33	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.44	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.27	ug/l	
86-74-8	Carbazole	ND	1.1	0.17	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-C-EB		
Lab Sample ID:	JA58900-5	Date Sampled:	10/14/10
Matrix:	AQ - Equipment Blank	Date Received:	10/14/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	1.1	0.11	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.33	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.37	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.44	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	1.1	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.38	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.41	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.1	0.23	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.1	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.31	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.16	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.32	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.1	0.20	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.42	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.17	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.6	2.1	0.34	ug/l	J
206-44-0	Fluoranthene	ND	1.1	0.18	ug/l	
86-73-7	Fluorene	ND	1.1	0.28	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.28	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	21	0.26	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.22	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.14	ug/l	
78-59-1	Isophorone	ND	2.1	0.26	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.69	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	0.25	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	0.30	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	0.19	ug/l	
91-20-3	Naphthalene	ND	1.1	0.45	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.27	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.1	0.77	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.46	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.23	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.22	ug/l	
129-00-0	Pyrene	ND	1.1	0.16	ug/l	
110-86-1	Pyridine	ND	2.1	0.29	ug/l	
91-22-5	Quinoline	ND	5.3	0.30	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.46	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID:	BBNPP-C-EB		
Lab Sample ID:	JA58900-5	Date Sampled:	10/14/10
Matrix:	AQ - Equipment Blank	Date Received:	10/14/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		13-68%
4165-62-2	Phenol-d5	22%		10-49%
118-79-6	2,4,6-Tribromophenol	90%		37-130%
4165-60-0	Nitrobenzene-d5	83%		25-112%
321-60-8	2-Fluorobiphenyl	76%		31-106%
1718-51-0	Terphenyl-d14	93%		14-122%

ND = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-C-EB

Lab Sample ID: JA58900-5

Date Sampled: 10/14/10

Matrix: AQ - Equipment Blank

Date Received: 10/14/10

Method: SW846 8141B SW846 3510C

Percent Solids: n/a

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZZ11474.D	1	10/21/10	AFL	10/20/10	F:OP34761	F:GZZ439
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	10.0 ml
Run #2		

OP Pesticide List

CAS No.	Compound	Result	RL	MDL	Units	Q
2921-88-2	Chlorpyrifos	ND	2.1	0.52	ug/l	
333-41-5	Diazinon	ND	2.1	0.52	ug/l	
62-73-7	Dichlorvos	ND	2.1	0.52	ug/l	
60-51-5	Dimethoate	ND	2.1	0.52	ug/l	
298-04-4	Disulfoton	ND	2.1	0.52	ug/l	
56-38-2	Ethyl Parathion	ND	2.1	0.52	ug/l	
121-75-5	Malathion	ND	2.1	0.52	ug/l	
298-00-0	Methyl Parathion	ND	2.1	0.52	ug/l	
298-02-2	Phorate	ND	2.1	0.52	ug/l	
299-84-3	Ronnel	ND	2.1	0.52	ug/l	
3689-24-5	Sulfotep	ND	2.1	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
115-86-6	Triphenyl phosphate	112%		55-128%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

ND = Not detected MDL - Method Detection Limit
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 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.5

Client Sample ID: BBNPP-C-EB

Lab Sample ID: JA58900-5

Date Sampled: 10/14/10

Matrix: AQ - Equipment Blank

Date Received: 10/14/10

Method: SW846 8151 SW846 3510C

Percent Solids: n/a

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW95339.D	1	10/22/10	TDR	10/20/10	OP46107	GWV3334
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	10.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.56	0.14	ug/l	
93-72-1	2,4,5-TP (Silvex)	ND	0.11	0.020	ug/l	
93-76-5	2,4,5-T	ND	0.11	0.032	ug/l	
75-99-0	Dalapon	ND	0.11	0.040	ug/l	
88-85-7	Dinoseb	ND	0.56	0.16	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	106%		50-142%
19719-28-9	2,4-DCAA	101%		50-142%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-C-EB				
Lab Sample ID:	JA58900-5			Date Sampled:	10/14/10
Matrix:	AQ - Equipment Blank			Date Received:	10/14/10
Method:	SW846 8315 SW846 8315			Percent Solids:	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	VU28438.D	1	10/19/10	AMA	10/16/10	M:OP22971	M:GVU1286
Run #2							

	Initial Volume	Final Volume
Run #1	500 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
50-00-0	Formaldehyde	ND	20	6.3	ug/l	
75-07-0	Acetaldehyde	ND	20	4.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
123-72-8	Butyraldehyde	155% ^b		10-150%
123-72-8	Butyraldehyde	155% ^b		10-150%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Outside control limits due to possible matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.5

Client Sample ID: BBNPP-C-EB

Lab Sample ID: JA58900-5

Date Sampled: 10/14/10

Matrix: AQ - Equipment Blank

Date Received: 10/14/10

Method: SW846 8081A SW846 3510C

Percent Solids: n/a

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G58178.D	1	10/26/10	OPM	10/20/10	OP46260	G1G2122
Run #2							

Run #	Initial Volume	Final Volume
Run #1	910 ml	10.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.022	0.0098	ug/l	
319-84-6	alpha-BHC	ND	0.022	0.0025	ug/l	
319-85-7	beta-BHC	ND	0.022	0.0040	ug/l	
319-86-8	delta-BHC	ND	0.022	0.0047	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.022	0.0018	ug/l	
12789-03-6	Chlordane	ND	0.55	0.27	ug/l	
5103-71-9	alpha-Chlordane	ND	0.022	0.0033	ug/l	
5103-74-2	gamma-Chlordane	ND	0.022	0.0026	ug/l	
60-57-1	Dieldrin	ND	0.022	0.0015	ug/l	
72-54-8	4,4'-DDD	ND	0.022	0.0040	ug/l	
72-55-9	4,4'-DDE	ND	0.022	0.0023	ug/l	
50-29-3	4,4'-DDT	ND	0.022	0.0042	ug/l	
72-20-8	Endrin	ND	0.022	0.0014	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.022	0.0074	ug/l	
959-98-8	Endosulfan-I	ND	0.022	0.0025	ug/l	
33213-65-9	Endosulfan-II	ND	0.022	0.0037	ug/l	
76-44-8	Heptachlor	ND	0.022	0.0042	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.022	0.0027	ug/l	
72-43-5	Methoxychlor	ND	0.022	0.0076	ug/l	
8001-35-2	Toxaphene	ND	0.27	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		26-145%
877-09-8	Tetrachloro-m-xylene	70%		26-145%
2051-24-3	Decachlorobiphenyl	35%		10-141%
2051-24-3	Decachlorobiphenyl	31%		10-141%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-C-EB	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-5	Date Received:	10/14/10
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8082 SW846 3510C		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G50216.D	1	10/22/10	TDR	10/20/10	OP46259	G3G1849
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.55	0.33	ug/l	
11104-28-2	Aroclor 1221	ND	0.55	0.45	ug/l	
11141-16-5	Aroclor 1232	ND	0.55	0.34	ug/l	
53469-21-9	Aroclor 1242	ND	0.55	0.30	ug/l	
12672-29-6	Aroclor 1248	ND	0.55	0.31	ug/l	
11097-69-1	Aroclor 1254	ND	0.55	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.55	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	65%		27-144%
877-09-8	Tetrachloro-m-xylene	67%		27-144%
2051-24-3	Decachlorobiphenyl	33%		10-139%
2051-24-3	Decachlorobiphenyl	35%		10-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-C-EB

Lab Sample ID: JA58900-5

Matrix: AQ - Equipment Blank

Date Sampled: 10/14/10

Date Received: 10/14/10

Percent Solids: n/a

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Barium	< 200	200	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Boron	< 100	100	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Chromium	< 10	10	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Cobalt	< 50	50	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Copper	< 10	10	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Manganese	< 15	15	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	11/05/10	11/05/10 JW	SW846 7470A ²	SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Selenium	< 10	10	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Silver	< 10	10	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Tin	< 10	10	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Vanadium	< 50	50	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA25283

(2) Instrument QC Batch: MA25307

(3) Prep QC Batch: MP55431

(4) Prep QC Batch: MP55517

RL = Reporting Limit

Report of Analysis

Client Sample ID: BBNPP-C-EB	Date Sampled: 10/14/10
Lab Sample ID: JA58900-5	Date Received: 10/14/10
Matrix: AQ - Equipment Blank	Percent Solids: n/a
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 2.0	2.0	mg/l	1	10/29/10 18:45	MS	EPA 300/SW846 9056
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	10/15/10 14:13	AD	SW846 7196A
Chromium, Trivalent ^a	< 0.020	0.020	mg/l	1	11/02/10 14:28	ND	SW846 6010/7196A M
Sulfate	< 10	10	mg/l	1	10/29/10 18:45	MS	EPA 300/SW846 9056
Total Organic Carbon	< 1.0	1.0	mg/l	1	10/30/10 16:12	SJG	SM20 5310B, 9060 M

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-PB		
Lab Sample ID:	JA58900-6	Date Sampled:	10/14/10
Matrix:	AQ - Field Blank Soil	Date Received:	10/14/10
Method:	DAI BY GC/MS 8260SIM	Percent Solids:	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H100523.D	1	10/20/10	KLS	n/a	n/a	EH4372
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.25	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	93%		50-150%

ND = Not detected MDL - Method Detection Limit
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Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-PB	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-6	Date Received:	10/14/10
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V108526.D	1	10/21/10	JLI	n/a	n/a	VV4578
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.9	ug/l	
75-05-8	Acetonitrile	ND	100	31	ug/l	
107-02-8	Acrolein	ND	50	23	ug/l	
107-13-1	Acrylonitrile	ND	50	3.6	ug/l	
107-05-1	Allyl chloride	ND	5.0	1.6	ug/l	
71-43-2	Benzene	ND	1.0	0.23	ug/l	
100-44-7	Benzyl Chloride	ND	5.0	0.56	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.33	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	4.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.30	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	110	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.47	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.21	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.74	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
126-99-8	Chloroprene	ND	5.0	0.93	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.31	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.25	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-PB		
Lab Sample ID:	JA58900-6	Date Sampled:	10/14/10
Matrix:	AQ - Field Blank Soil	Date Received:	10/14/10
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	94	ug/l	
106-89-8	Epichlorohydrin	ND	100	6.1	ug/l	
141-78-6	Ethyl Acetate	ND	5.0	2.0	ug/l	
60-29-7	Ethyl Ether	ND	5.0	0.72	ug/l	
97-63-2	Ethyl methacrylate	ND	10	0.48	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
110-54-3	Hexane	ND	5.0	0.54	ug/l	
78-83-1	Isobutyl alcohol	ND	50	20	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.57	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
80-62-6	Methyl methacrylate	ND	10	1.3	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.86	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.30	ug/l	
79-46-9	2-Nitropropane	ND	10	1.6	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.58	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
108-70-3	1,3,5-Trichlorobenzene	ND	5.0		ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.24	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.49	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.28	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-05-4	Vinyl Acetate	ND	10	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		76-120%
17060-07-0	1,2-Dichloroethane-D4	95%		64-135%

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 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: BBNPP-PB	Date Sampled: 10/14/10
Lab Sample ID: JA58900-6	Date Received: 10/14/10
Matrix: AQ - Field Blank Soil	Percent Solids: n/a
Method: SW846 8260B	
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	108%		76-117%
460-00-4	4-Bromofluorobenzene	90%		72-122%

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Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-PB

Lab Sample ID: JA58900-6

Date Sampled: 10/14/10

Matrix: AQ - Field Blank Soil

Date Received: 10/14/10

Method: SW846 8270C SW846 3510C

Percent Solids: n/a

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F92535.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333
Run #2							

Run #	Initial Volume	Final Volume
Run #1	835 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	24	1.5	ug/l	
95-57-8	2-Chlorophenol	ND	6.0	1.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	6.0	1.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	6.0	1.5	ug/l	
105-67-9	2,4-Dimethylphenol	ND	6.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	0.88	ug/l	
95-48-7	2-Methylphenol	ND	2.4	1.3	ug/l	
	3&4-Methylphenol	ND	2.4	1.2	ug/l	
88-75-5	2-Nitrophenol	ND	6.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	12	0.99	ug/l	
87-86-5	Pentachlorophenol	ND	12	0.96	ug/l	
108-95-2	Phenol	ND	2.4	0.69	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	6.0	0.97	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	6.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	6.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	1.2	0.44	ug/l	
208-96-8	Acenaphthylene	ND	1.2	0.33	ug/l	
98-86-2	Acetophenone	ND	2.4	0.48	ug/l	
62-53-3	Aniline	ND	2.4	0.27	ug/l	
120-12-7	Anthracene	ND	1.2	0.19	ug/l	
1912-24-9	Atrazine	ND	6.0	0.47	ug/l	
92-87-5	Benzidine	ND	24	5.4	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.2	0.15	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.2	0.11	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.2	0.29	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.2	0.14	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.2	0.45	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.4	0.30	ug/l	
100-51-6	Benzyl Alcohol	ND	2.4	0.37	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.2	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	6.0	0.30	ug/l	
86-74-8	Carbazole	ND	1.2	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-PB	Date Sampled: 10/14/10
Lab Sample ID: JA58900-6	Date Received: 10/14/10
Matrix: AQ - Field Blank Soil	Percent Solids: n/a
Method: SW846 8270C SW846 3510C	
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	1.2	0.13	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.4	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.4	0.47	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.4	0.42	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.51	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	1.2	0.30	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.43	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.46	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.4	0.26	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.4	0.39	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	6.0	0.35	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.2	0.18	ug/l	
132-64-9	Dibenzofuran	ND	6.0	0.36	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.4	0.23	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.4	0.47	ug/l	
84-66-2	Diethyl phthalate	ND	2.4	0.20	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.4	0.39	ug/l	
206-44-0	Fluoranthene	ND	1.2	0.20	ug/l	
86-73-7	Fluorene	ND	1.2	0.32	ug/l	
118-74-1	Hexachlorobenzene	ND	1.2	0.32	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.2	0.15	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	2.4	0.29	ug/l	
67-72-1	Hexachloroethane	ND	2.4	0.25	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.2	0.16	ug/l	
78-59-1	Isophorone	ND	2.4	0.30	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.2	0.79	ug/l	
88-74-4	2-Nitroaniline	ND	6.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	6.0	0.34	ug/l	
100-01-6	4-Nitroaniline	ND	6.0	0.21	ug/l	
91-20-3	Naphthalene	ND	1.2	0.51	ug/l	
98-95-3	Nitrobenzene	ND	2.4	0.30	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.4	0.88	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.4	0.52	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	6.0	0.26	ug/l	
85-01-8	Phenanthrene	ND	1.2	0.25	ug/l	
129-00-0	Pyrene	ND	1.2	0.19	ug/l	
110-86-1	Pyridine	ND	2.4	0.33	ug/l	
91-22-5	Quinoline	ND	6.0	0.34	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.4	0.58	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.2	0.52	ug/l	

ND = Not detected MDL - Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-PB	
Lab Sample ID: JA58900-6	Date Sampled: 10/14/10
Matrix: AQ - Field Blank Soil	Date Received: 10/14/10
Method: SW846 8270C SW846 3510C	Percent Solids: n/a
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		13-68%
4165-62-2	Phenol-d5	30%		10-49%
118-79-6	2,4,6-Tribromophenol	107%		37-130%
4165-60-0	Nitrobenzene-d5	102%		25-112%
321-60-8	2-Fluorobiphenyl	92%		31-106%
1718-51-0	Terphenyl-d14	100%		14-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.6

Client Sample ID: BBNPP-PB

Lab Sample ID: JA58900-6

Date Sampled: 10/14/10

Matrix: AQ - Field Blank Soil

Date Received: 10/14/10

Method: SW846 8141B SW846 3510C

Percent Solids: n/a

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZZ11475.D	1	10/21/10	AFL	10/20/10	F:OP34761	F:GZZ439
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	10.0 ml
Run #2		

OP Pesticide List

CAS No.	Compound	Result	RL	MDL	Units	Q
2921-88-2	Chlorpyrifos	ND	2.0	0.51	ug/l	
333-41-5	Diazinon	ND	2.0	0.51	ug/l	
62-73-7	Dichlorvos	ND	2.0	0.51	ug/l	
60-51-5	Dimethoate	ND	2.0	0.51	ug/l	
298-04-4	Disulfoton	ND	2.0	0.51	ug/l	
56-38-2	Ethyl Parathion	ND	2.0	0.51	ug/l	
121-75-5	Malathion	ND	2.0	0.51	ug/l	
298-00-0	Methyl Parathion	ND	2.0	0.51	ug/l	
298-02-2	Phorate	ND	2.0	0.51	ug/l	
299-84-3	Ronnel	ND	2.0	0.51	ug/l	
3689-24-5	Sulfotep	ND	2.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
115-86-6	Triphenyl phosphate	121%		55-128%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

ND = Not detected MDL - Method Detection Limit
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 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-PB	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-6	Date Received:	10/14/10
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8151 SW846 3510C		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW95335.D	1	10/22/10	TDR	10/20/10	OP46107	GW3334
Run #2							

Run #	Initial Volume	Final Volume
Run #1	730 ml	10.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.68	0.17	ug/l	
93-72-1	2,4,5-TP (Silvex)	ND	0.14	0.025	ug/l	
93-76-5	2,4,5-T	ND	0.14	0.039	ug/l	
75-99-0	Dalapon	ND	0.14	0.050	ug/l	
88-85-7	Dinoseb	ND	0.68	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	97%		50-142%
19719-28-9	2,4-DCAA	97%		50-142%

ND = Not detected MDL - Method Detection Limit
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 N = Indicates presumptive evidence of a compound

Accutest Laboratories

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Client Sample ID:	BBNPP-PB	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-6	Date Received:	10/14/10
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8315 SW846 8315		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	VU28439.D	1	10/19/10	AMA	10/16/10	M:OP22971	M:GVU1286
Run #2							

	Initial Volume	Final Volume
Run #1	500 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
50-00-0	Formaldehyde	ND	20	6.3	ug/l	
75-07-0	Acetaldehyde	ND	20	4.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
123-72-8	Butyraldehyde	123%		10-150%
123-72-8	Butyraldehyde	123%		10-150%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

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J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.6

Client Sample ID: BBNPP-PB

Lab Sample ID: JA58900-6

Date Sampled: 10/14/10

Matrix: AQ - Field Blank Soil

Date Received: 10/14/10

Method: SW846 8081A SW846 3510C

Percent Solids: n/a

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G58179.D	1	10/26/10	OPM	10/20/10	OP46260	G1G2122
Run #2							

Run #	Initial Volume	Final Volume
Run #1	900 ml	10.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.022	0.010	ug/l	
319-84-6	alpha-BHC	ND	0.022	0.0025	ug/l	
319-85-7	beta-BHC	ND	0.022	0.0041	ug/l	
319-86-8	delta-BHC	ND	0.022	0.0047	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.022	0.0019	ug/l	
12789-03-6	Chlordane	ND	0.56	0.28	ug/l	
5103-71-9	alpha-Chlordane	ND	0.022	0.0034	ug/l	
5103-74-2	gamma-Chlordane	ND	0.022	0.0026	ug/l	
60-57-1	Dieldrin	ND	0.022	0.0015	ug/l	
72-54-8	4,4'-DDD	ND	0.022	0.0040	ug/l	
72-55-9	4,4'-DDE	ND	0.022	0.0023	ug/l	
50-29-3	4,4'-DDT	ND	0.022	0.0042	ug/l	
72-20-8	Endrin	ND	0.022	0.0015	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.022	0.0075	ug/l	
959-98-8	Endosulfan-I	ND	0.022	0.0025	ug/l	
33213-65-9	Endosulfan-II	ND	0.022	0.0037	ug/l	
76-44-8	Heptachlor	ND	0.022	0.0042	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.022	0.0028	ug/l	
72-43-5	Methoxychlor	ND	0.022	0.0076	ug/l	
8001-35-2	Toxaphene	ND	0.28	0.28	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		26-145%
877-09-8	Tetrachloro-m-xylene	99%		26-145%
2051-24-3	Decachlorobiphenyl	74%		10-141%
2051-24-3	Decachlorobiphenyl	71%		10-141%

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Accutest Laboratories

Report of Analysis

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3.6

Client Sample ID: BBNPP-PB

Lab Sample ID: JA58900-6

Date Sampled: 10/14/10

Matrix: AQ - Field Blank Soil

Date Received: 10/14/10

Method: SW846 8082 SW846 3510C

Percent Solids: n/a

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G50217.D	1	10/22/10	TDR	10/20/10	OP46259	G3G1849
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.56	0.33	ug/l	
11104-28-2	Aroclor 1221	ND	0.56	0.46	ug/l	
11141-16-5	Aroclor 1232	ND	0.56	0.34	ug/l	
53469-21-9	Aroclor 1242	ND	0.56	0.30	ug/l	
12672-29-6	Aroclor 1248	ND	0.56	0.31	ug/l	
11097-69-1	Aroclor 1254	ND	0.56	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.56	0.16	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		27-144%
877-09-8	Tetrachloro-m-xylene	86%		27-144%
2051-24-3	Decachlorobiphenyl	72%		10-139%
2051-24-3	Decachlorobiphenyl	77%		10-139%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
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Report of Analysis

Client Sample ID: BBNPP-PB	Date Sampled: 10/14/10
Lab Sample ID: JA58900-6	Date Received: 10/14/10
Matrix: AQ - Field Blank Soil	Percent Solids: n/a
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Barium	< 200	200	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Boron	< 100	100	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Chromium	< 10	10	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Cobalt	< 50	50	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Copper	< 10	10	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Manganese	< 15	15	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	11/05/10	11/05/10 JW	SW846 7470A ²	SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Selenium	< 10	10	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Silver	< 10	10	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Tin	< 10	10	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Vanadium	< 50	50	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	1	11/01/10	11/02/10 ND	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA25283

(2) Instrument QC Batch: MA25307

(3) Prep QC Batch: MP55431

(4) Prep QC Batch: MP55517

RL = Reporting Limit

Report of Analysis

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3.6

Client Sample ID: BBNPP-PB	Date Sampled: 10/14/10
Lab Sample ID: JA58900-6	Date Received: 10/14/10
Matrix: AQ - Field Blank Soil	Percent Solids: n/a
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 2.0	2.0	mg/l	1	10/29/10 19:07	MS	EPA 300/SW846 9056
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	10/15/10 14:13	AD	SW846 7196A
Chromium, Trivalent ^a	< 0.020	0.020	mg/l	1	11/02/10 14:34	ND	SW846 6010/7196A M
Sulfate	< 10	10	mg/l	1	10/29/10 19:07	MS	EPA 300/SW846 9056
Total Organic Carbon	< 1.0	1.0	mg/l	1	10/30/10 16:26	SJG	SM20 5310B, 9060 M

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Accutest Laboratories

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3.7

Client Sample ID: BBNPP-CW4-C

Lab Sample ID: JA58900-7

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: DAI BY GC/MS 8260SIM

Percent Solids: 77.5

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H100604.D	1	10/27/10	KLS	n/a	n/a	EH4374
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.32	0.10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	67%		50-150%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3

Client Sample ID:	BBNPP-CW4-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-7	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	77.5
Method:	SW846 8260B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108396.D	1	10/27/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	16.2 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	4.0	0.89	ug/kg	
75-05-8	Acetonitrile	ND	40	9.4	ug/kg	
107-02-8	Acrolein	ND	20	5.7	ug/kg	
107-13-1	Acrylonitrile	ND	20	0.33	ug/kg	
107-05-1	Allyl chloride	ND	2.0	0.34	ug/kg	
71-43-2	Benzene	ND	0.40	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	2.0	0.088	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.10	ug/kg	
75-25-2	Bromoform	ND	2.0	0.060	ug/kg	
74-83-9	Bromomethane	ND	2.0	0.16	ug/kg	
78-93-3	2-Butanone (MEK)	ND	4.0	0.78	ug/kg	
71-36-3	n-Butyl Alcohol	ND	100	38	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	0.15	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	0.19	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	0.19	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.22	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.14	ug/kg	
75-00-3	Chloroethane	ND	2.0	0.40	ug/kg	
67-66-3	Chloroform	ND	2.0	0.13	ug/kg	
74-87-3	Chloromethane	ND	2.0	0.066	ug/kg	
126-99-8	Chloroprene	ND	2.0	0.44	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	0.11	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	0.22	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.044	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.40	0.055	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	0.055	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.40	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	0.26	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.095	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.18	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.052	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-CW4-C		
Lab Sample ID:	JA58900-7	Date Sampled:	10/13/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8260B	Percent Solids:	77.5
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.053	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.038	ug/kg	
123-91-1	1,4-Dioxane	ND	50	34	ug/kg	
141-78-6	Ethyl Acetate	ND	2.0	0.77	ug/kg	
60-29-7	Ethyl Ether	ND	2.0	0.13	ug/kg	
97-63-2	Ethyl methacrylate	ND	4.0	0.052	ug/kg	
100-41-4	Ethylbenzene	ND	0.40	0.15	ug/kg	
110-54-3	Hexane	ND	2.0	0.061	ug/kg	
78-83-1	Isobutyl alcohol	ND	20	4.9	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.21	ug/kg	
79-20-9	Methyl Acetate	ND	2.0	0.33	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.40	0.11	ug/kg	
80-62-6	Methyl methacrylate	ND	4.0	0.45	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	2.0	0.32	ug/kg	
74-95-3	Methylene bromide	ND	2.0	0.070	ug/kg	
75-09-2	Methylene chloride	ND	2.0	0.089	ug/kg	
79-46-9	2-Nitropropane	ND	4.0	0.48	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	0.10	ug/kg	
100-42-5	Styrene	ND	2.0	0.043	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.042	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.12	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.058	ug/kg	
108-88-3	Toluene	ND	0.40	0.12	ug/kg	
108-70-3	1,3,5-Trichlorobenzene	ND	2.0		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.051	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.074	ug/kg	
79-01-6	Trichloroethene	ND	2.0	0.21	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.13	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.17	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.14	ug/kg	
108-05-4	Vinyl Acetate	ND	4.0	0.42	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.071	ug/kg	
1330-20-7	Xylene (total)	ND	0.80	0.19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		67-127%
17060-07-0	1,2-Dichloroethane-D4	109%		65-132%
2037-26-5	Toluene-D8	110%		74-129%
460-00-4	4-Bromofluorobenzene	113%		62-138%

ND = Not detected MDL - Method Detection Limit
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Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-CW4-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-7	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	77.5
Method:	SW846 8270C SW846 3550B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P729.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	730	67	ug/kg	
95-57-8	2-Chlorophenol	ND	180	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	59	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	61	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	730	45	ug/kg	
95-48-7	2-Methylphenol	ND	73	42	ug/kg	
	3&4-Methylphenol	ND	73	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	39	ug/kg	
100-02-7	4-Nitrophenol	ND	370	62	ug/kg	
87-86-5	Pentachlorophenol	ND	370	63	ug/kg	
108-95-2	Phenol	ND	73	38	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	38	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	34	ug/kg	
83-32-9	Acenaphthene	ND	37	11	ug/kg	
208-96-8	Acenaphthylene	ND	37	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.4	ug/kg	
62-53-3	Aniline	ND	73	7.7	ug/kg	
120-12-7	Anthracene	ND	37	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.2	ug/kg	
92-87-5	Benzidine	ND	730	140	ug/kg	
56-55-3	Benzo(a)anthracene	ND	37	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	37	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	37	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	37	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	37	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	73	21	ug/kg	
100-51-6	Benzyl Alcohol	ND	73	15	ug/kg	
92-52-4	1,1'-Biphenyl	ND	73	4.2	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	ND	73	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-CW4-C		
Lab Sample ID:	JA58900-7	Date Sampled:	10/13/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	77.5
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	37	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	73	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	73	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	73	11	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	73	11	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	73	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	73	9.8	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	73	8.2	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	73	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	73	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	37	12	ug/kg	
132-64-9	Dibenzofuran	ND	73	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	73	8.1	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	73	18	ug/kg	
84-66-2	Diethyl phthalate	ND	73	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	73	32	ug/kg	
206-44-0	Fluoranthene	ND	37	16	ug/kg	
86-73-7	Fluorene	ND	37	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	73	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	730	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	37	13	ug/kg	
78-59-1	Isophorone	ND	73	9.8	ug/kg	
91-57-6	2-Methylnaphthalene	ND	73	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	15	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	73	11	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	73	32	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	73	8.9	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	ND	37	17	ug/kg	
129-00-0	Pyrene	ND	37	14	ug/kg	
110-86-1	Pyridine	ND	73	15	ug/kg	
91-22-5	Quinoline	ND	180	34	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	73	9.7	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-CW4-C	
Lab Sample ID: JA58900-7	Date Sampled: 10/13/10
Matrix: SO - Soil	Date Received: 10/14/10
Method: SW846 8270C SW846 3550B	Percent Solids: 77.5
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		30-109%
4165-62-2	Phenol-d5	31%		28-108%
118-79-6	2,4,6-Tribromophenol	44%		28-125%
4165-60-0	Nitrobenzene-d5	35%		28-113%
321-60-8	2-Fluorobiphenyl	41%		38-107%
1718-51-0	Terphenyl-d14	51%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.7

Client Sample ID:	BBNPP-CW4-C				
Lab Sample ID:	JA58900-7			Date Sampled:	10/13/10
Matrix:	SO - Soil			Date Received:	10/14/10
Method:	SW846 8141B SW846 3550B			Percent Solids:	77.5
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZZ11464.D	1	10/21/10	AFL	10/20/10	F:OP34758	F:GZZ439
Run #2							

	Initial Weight	Final Volume
Run #1	29.6 g	10.0 ml
Run #2		

OP Pesticide List

CAS No.	Compound	Result	RL	MDL	Units	Q
2921-88-2	Chlorpyrifos	ND	87	22	ug/kg	
333-41-5	Diazinon	ND	87	22	ug/kg	
62-73-7	Dichlorvos	ND	87	22	ug/kg	
60-51-5	Dimethoate	ND	87	22	ug/kg	
298-04-4	Disulfoton	ND	87	44	ug/kg	
56-38-2	Ethyl Parathion	ND	87	22	ug/kg	
121-75-5	Malathion	ND	87	22	ug/kg	
298-00-0	Methyl Parathion	ND	87	22	ug/kg	
298-02-2	Phorate	ND	87	22	ug/kg	
299-84-3	Ronnel	ND	87	22	ug/kg	
3689-24-5	Sulfotep	ND	87	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
115-86-6	Triphenyl phosphate	106%		48-133%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.7

Client Sample ID: BBNPP-CW4-C

Lab Sample ID: JA58900-7

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8151 SW846 3550B

Percent Solids: 77.5

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW95486.D	1	10/28/10	TDR	10/27/10	OP46377	GW3340
Run #2 ^a	WW95612.D	1	11/04/10	TDR	10/30/10	OP46441	GW3346

	Initial Weight	Final Volume
Run #1	35.3 g	10.0 ml
Run #2	35.2 g	10.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	18	5.8	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	3.7	0.70	ug/kg	
93-76-5	2,4,5-T	ND	3.7	1.4	ug/kg	
75-99-0	Dalapon	ND	3.7	2.6	ug/kg	
88-85-7	Dinoseb	ND	18	4.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	76%	91%	13-146%
19719-28-9	2,4-DCAA	97%	86%	13-146%

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.7



Client Sample ID: BBNPP-CW4-C

Lab Sample ID: JA58900-7

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8315 SW846 3510C

Percent Solids: 77.5

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	VU28484.D	1	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1288
Run #2 ^a	VU28524.D	5	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1289

	Initial Weight	Final Volume
Run #1	25.0 g	1.0 ml
Run #2	25.0 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
50-00-0	Formaldehyde	17200 ^b	5200	730	ug/kg	
75-07-0	Acetaldehyde	66.2	1000	60	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
123-72-8	Butyraldehyde	171%	152%	18-186%
123-72-8	Butyraldehyde	165%	156%	18-186%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.7

Client Sample ID:	BBNPP-CW4-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-7	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	77.5
Method:	SW846 8081A SW846 3545		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G944.D	1	11/01/10	OPM	10/27/10	OP46373	G4G27
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.5	0.68	ug/kg	
319-84-6	alpha-BHC	ND	1.5	0.47	ug/kg	
319-85-7	beta-BHC	ND	1.5	0.74	ug/kg	
319-86-8	delta-BHC	ND	1.5	0.41	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.5	0.47	ug/kg	
12789-03-6	Chlordane	ND	38	11	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.5	0.51	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.5	0.59	ug/kg	
60-57-1	Dieldrin	ND	1.5	0.51	ug/kg	
72-54-8	4,4'-DDD	ND	1.5	0.65	ug/kg	
72-55-9	4,4'-DDE	ND	1.5	0.53	ug/kg	
50-29-3	4,4'-DDT	ND	1.5	0.64	ug/kg	
72-20-8	Endrin	ND	1.5	0.53	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.5	0.58	ug/kg	
959-98-8	Endosulfan-I	ND	1.5	0.52	ug/kg	
33213-65-9	Endosulfan-II	ND	1.5	0.58	ug/kg	
76-44-8	Heptachlor	ND	1.5	0.68	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.5	0.58	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.68	ug/kg	
8001-35-2	Toxaphene	ND	19	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		23-137%
877-09-8	Tetrachloro-m-xylene	72%		23-137%
2051-24-3	Decachlorobiphenyl	84%		22-160%
2051-24-3	Decachlorobiphenyl	81%		22-160%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.7

Client Sample ID: BBNPP-CW4-C

Lab Sample ID: JA58900-7

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8082 SW846 3545

Percent Solids: 77.5

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF93921.D	1	10/28/10	VDT	10/27/10	OP46374	GEF4072
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	14	ug/kg	
11104-28-2	Aroclor 1221	ND	38	25	ug/kg	
11141-16-5	Aroclor 1232	ND	38	12	ug/kg	
53469-21-9	Aroclor 1242	ND	38	14	ug/kg	
12672-29-6	Aroclor 1248	ND	38	7.5	ug/kg	
11097-69-1	Aroclor 1254	ND	38	9.6	ug/kg	
11096-82-5	Aroclor 1260	ND	38	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		22-141%
877-09-8	Tetrachloro-m-xylene	105%		22-141%
2051-24-3	Decachlorobiphenyl	123%		18-163%
2051-24-3	Decachlorobiphenyl	133%		18-163%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-CW4-C

Lab Sample ID: JA58900-7

Matrix: SO - Soil

Date Sampled: 10/13/10

Date Received: 10/14/10

Percent Solids: 77.5

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.6	2.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Arsenic	3.9	2.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Barium	< 26	26	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Beryllium	0.31	0.26	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Boron	< 13	13	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cadmium	< 0.65	0.65	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Chromium	7.6	1.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cobalt	6.7	6.5	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Copper	13.9	3.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Lead	8.9	2.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Manganese	440	2.0	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Mercury	< 0.042	0.042	mg/kg	1	11/07/10	11/08/10 JF	SW846 7471A ²	SW846 7471A ⁴
Nickel	13.4	5.2	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Selenium	< 2.6	2.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Silver	< 0.65	0.65	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Thallium	< 1.3	1.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Tin	< 6.5	6.5	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Vanadium	9.8	6.5	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Zinc	36.9	2.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³

(1) Instrument QC Batch: MA25281

(2) Instrument QC Batch: MA25311

(3) Prep QC Batch: MP55449

(4) Prep QC Batch: MP55530

RL = Reporting Limit

Report of Analysis

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3.7

Client Sample ID: BBNPP-CW4-C	Date Sampled: 10/13/10
Lab Sample ID: JA58900-7	Date Received: 10/14/10
Matrix: SO - Soil	Percent Solids: 77.5
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 26	26	mg/kg	1	11/01/10 22:29	MS	EPA 300/SW846 9056
Chromium, Hexavalent	< 0.52	0.52	mg/kg	1	11/03/10 12:31	RI	SW846 3060A/7196A
Chromium, Trivalent ^a	7.6	1.8	mg/kg	1	11/03/10 12:31	RI	SW846 6010/7196A M
Cyanide	< 0.30	0.30	mg/kg	1	10/20/10 16:33	VA	SW846 9012 M/LACHAT
Nitrogen, Nitrate + Nitrite	< 26	26	mg/kg	1	10/28/10 11:01	NP	EPA 353.2 M/LACHAT
Redox Potential Vs H2	418		mv	1	11/03/10	SS	ASTM D1498-76M
Solids, Percent	77.5		%	1	11/03/10	KH	SM18 2540G
Sulfate	< 130	130	mg/kg	1	11/01/10 22:29	MS	EPA 300/SW846 9056
Total Organic Carbon	14800	1300	mg/kg	1	11/02/10 12:14	SJG	CORP ENG 81M/SW9060M
pH	8.01		su	1	11/03/10	SS	SW846 9045C,D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

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3.8



Client Sample ID:	BBNPP-CW7-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-8	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	78.2
Method:	DAI BY GC/MS 8260SIM		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H100605.D	1	10/27/10	KLS	n/a	n/a	EH4374
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.32	0.10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	103% ^a		50-150%

(a) double spiked.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.8

Client Sample ID: BBNPP-CW7-C

Lab Sample ID: JA58900-8

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8260B

Percent Solids: 78.2

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108359.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

Initial Weight

Run #1 10.4 g

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	6.1	1.4	ug/kg	
75-05-8	Acetonitrile	ND	61	15	ug/kg	
107-02-8	Acrolein	ND	31	8.8	ug/kg	
107-13-1	Acrylonitrile	ND	31	0.51	ug/kg	
107-05-1	Allyl chloride	ND	3.1	0.53	ug/kg	
71-43-2	Benzene	ND	0.61	0.21	ug/kg	
100-44-7	Benzyl Chloride	ND	3.1	0.24	ug/kg	
74-97-5	Bromochloromethane	ND	3.1	0.14	ug/kg	
75-27-4	Bromodichloromethane	ND	3.1	0.16	ug/kg	
75-25-2	Bromoform	ND	3.1	0.093	ug/kg	
74-83-9	Bromomethane	ND	3.1	0.25	ug/kg	
78-93-3	2-Butanone (MEK)	ND	6.1	1.2	ug/kg	
71-36-3	n-Butyl Alcohol	ND	150	58	ug/kg	
104-51-8	n-Butylbenzene	ND	3.1	0.23	ug/kg	
135-98-8	sec-Butylbenzene	ND	3.1	0.30	ug/kg	
98-06-6	tert-Butylbenzene	ND	3.1	0.29	ug/kg	
75-15-0	Carbon disulfide	ND	3.1	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.1	0.34	ug/kg	
108-90-7	Chlorobenzene	ND	3.1	0.21	ug/kg	
75-00-3	Chloroethane	ND	3.1	0.61	ug/kg	
67-66-3	Chloroform	ND	3.1	0.20	ug/kg	
74-87-3	Chloromethane	ND	3.1	0.10	ug/kg	
126-99-8	Chloroprene	ND	3.1	0.68	ug/kg	
95-49-8	o-Chlorotoluene	ND	3.1	0.18	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.1	0.33	ug/kg	
124-48-1	Dibromochloromethane	ND	3.1	0.068	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.61	0.084	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.1	0.085	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.61	0.21	ug/kg	
75-35-4	1,1-Dichloroethene	ND	3.1	0.41	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	3.1	0.15	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	3.1	0.28	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-CW7-C		
Lab Sample ID:	JA58900-8	Date Sampled:	10/13/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8260B	Percent Solids:	78.2
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	3.1	0.080	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	0.082	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	0.059	ug/kg	
123-91-1	1,4-Dioxane	ND	77	53	ug/kg	
106-89-8	Epichlorohydrin	ND	61	1.1	ug/kg	
141-78-6	Ethyl Acetate	ND	3.1	1.2	ug/kg	
60-29-7	Ethyl Ether	ND	3.1	0.20	ug/kg	
97-63-2	Ethyl methacrylate	ND	6.1	0.080	ug/kg	
100-41-4	Ethylbenzene	ND	0.61	0.23	ug/kg	
110-54-3	Hexane	ND	3.1	0.095	ug/kg	
78-83-1	Isobutyl alcohol	ND	31	7.6	ug/kg	
98-82-8	Isopropylbenzene	ND	3.1	0.32	ug/kg	
79-20-9	Methyl Acetate	ND	3.1	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.61	0.17	ug/kg	
80-62-6	Methyl methacrylate	ND	6.1	0.70	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	3.1	0.50	ug/kg	
74-95-3	Methylene bromide	ND	3.1	0.11	ug/kg	
75-09-2	Methylene chloride	ND	3.1	0.14	ug/kg	
79-46-9	2-Nitropropane	ND	6.1	0.74	ug/kg	
103-65-1	n-Propylbenzene	ND	3.1	0.16	ug/kg	
100-42-5	Styrene	ND	3.1	0.066	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.1	0.065	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.1	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	3.1	0.089	ug/kg	
108-88-3	Toluene	ND	0.61	0.18	ug/kg	
108-70-3	1,3,5-Trichlorobenzene	ND	3.1		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.1	0.079	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.1	0.11	ug/kg	
79-01-6	Trichloroethene	ND	3.1	0.32	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.1	0.20	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.1	0.26	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.1	0.22	ug/kg	
108-05-4	Vinyl Acetate	ND	6.1	0.65	ug/kg	
75-01-4	Vinyl chloride	ND	3.1	0.11	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		67-127%
17060-07-0	1,2-Dichloroethane-D4	97%		65-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

**Client Sample ID:** BBNPP-CW7-C**Lab Sample ID:** JA58900-8**Date Sampled:** 10/13/10**Matrix:** SO - Soil**Date Received:** 10/14/10**Method:** SW846 8260B**Percent Solids:** 78.2**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	109%		74-129%
460-00-4	4-Bromofluorobenzene	123%		62-138%

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-CW7-C

Lab Sample ID: JA58900-8

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8270C SW846 3550B

Percent Solids: 78.2

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P730.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	720	66	ug/kg	
95-57-8	2-Chlorophenol	ND	180	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	58	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	61	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	720	44	ug/kg	
95-48-7	2-Methylphenol	ND	72	41	ug/kg	
	3&4-Methylphenol	ND	72	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	38	ug/kg	
100-02-7	4-Nitrophenol	ND	360	61	ug/kg	
87-86-5	Pentachlorophenol	ND	360	62	ug/kg	
108-95-2	Phenol	ND	72	38	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	34	ug/kg	
83-32-9	Acenaphthene	ND	36	10	ug/kg	
208-96-8	Acenaphthylene	ND	36	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.4	ug/kg	
62-53-3	Aniline	ND	72	7.6	ug/kg	
120-12-7	Anthracene	ND	36	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.1	ug/kg	
92-87-5	Benzidine	ND	720	130	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	21	ug/kg	
100-51-6	Benzyl Alcohol	ND	72	15	ug/kg	
92-52-4	1,1'-Biphenyl	ND	72	4.2	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	ND	72	17	ug/kg	

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Report of Analysis

Client Sample ID:	BBNPP-CW7-C		
Lab Sample ID:	JA58900-8	Date Sampled:	10/13/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	78.2
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	36	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	72	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	11	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	72	10	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	72	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	72	9.7	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	72	8.1	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	72	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	72	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	12	ug/kg	
132-64-9	Dibenzofuran	ND	72	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	72	8.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	18	ug/kg	
84-66-2	Diethyl phthalate	ND	72	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	72	32	ug/kg	
206-44-0	Fluoranthene	ND	36	16	ug/kg	
86-73-7	Fluorene	ND	36	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	720	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	13	ug/kg	
78-59-1	Isophorone	ND	72	9.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	72	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	36	9.9	ug/kg	
98-95-3	Nitrobenzene	ND	72	10	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	72	32	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	8.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	ND	36	16	ug/kg	
129-00-0	Pyrene	ND	36	14	ug/kg	
110-86-1	Pyridine	ND	72	14	ug/kg	
91-22-5	Quinoline	ND	180	34	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	72	9.6	ug/kg	

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-CW7-C	Date Sampled: 10/13/10
Lab Sample ID: JA58900-8	Date Received: 10/14/10
Matrix: SO - Soil	Percent Solids: 78.2
Method: SW846 8270C SW846 3550B	
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		30-109%
4165-62-2	Phenol-d5	37%		28-108%
118-79-6	2,4,6-Tribromophenol	54%		28-125%
4165-60-0	Nitrobenzene-d5	42%		28-113%
321-60-8	2-Fluorobiphenyl	50%		38-107%
1718-51-0	Terphenyl-d14	63%		31-116%

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Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-CW7-C				
Lab Sample ID:	JA58900-8			Date Sampled:	10/13/10
Matrix:	SO - Soil			Date Received:	10/14/10
Method:	SW846 8141B SW846 3550B			Percent Solids:	78.2
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZZ11465.D	1	10/21/10	AFL	10/20/10	F:OP34758	F:GZZ439
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

OP Pesticide List

CAS No.	Compound	Result	RL	MDL	Units	Q
2921-88-2	Chlorpyrifos	ND	85	21	ug/kg	
333-41-5	Diazinon	ND	85	21	ug/kg	
62-73-7	Dichlorvos	ND	85	21	ug/kg	
60-51-5	Dimethoate	ND	85	21	ug/kg	
298-04-4	Disulfoton	ND	85	42	ug/kg	
56-38-2	Ethyl Parathion	ND	85	21	ug/kg	
121-75-5	Malathion	ND	85	21	ug/kg	
298-00-0	Methyl Parathion	ND	85	21	ug/kg	
298-02-2	Phorate	ND	85	21	ug/kg	
299-84-3	Ronnel	ND	85	21	ug/kg	
3689-24-5	Sulfotep	ND	85	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
115-86-6	Triphenyl phosphate	123%		48-133%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

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Accutest Laboratories

Report of Analysis

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3.8

Client Sample ID: BBNPP-CW7-C

Lab Sample ID: JA58900-8

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8151 SW846 3550B

Percent Solids: 78.2

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW95487.D	1	10/28/10	TDR	10/27/10	OP46377	GWW3340
Run #2 ^a	WW95613.D	1	11/04/10	TDR	10/30/10	OP46441	GWW3346

	Initial Weight	Final Volume
Run #1	35.1 g	10.0 ml
Run #2	35.2 g	10.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	18	5.8	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	3.6	0.70	ug/kg	
93-76-5	2,4,5-T	ND	3.6	1.4	ug/kg	
75-99-0	Dalapon	ND	3.6	2.5	ug/kg	
88-85-7	Dinoseb	ND	18	4.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	75%	88%	13-146%
19719-28-9	2,4-DCAA	38%	82%	13-146%

(a) Confirmation run.

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Accutest Laboratories

Report of Analysis

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3.8

Client Sample ID: BBNPP-CW7-C

Lab Sample ID: JA58900-8

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8315 SW846 3510C

Percent Solids: 78.2

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	VU28485.D	1	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1288
Run #2 ^a	VU28525.D	5	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1289

	Initial Weight	Final Volume
Run #1	25.0 g	1.0 ml
Run #2	25.0 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
50-00-0	Formaldehyde	19600 ^b	5100	730	ug/kg	
75-07-0	Acetaldehyde	84.0	1000	60	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
123-72-8	Butyraldehyde	181%	154%	18-186%
123-72-8	Butyraldehyde	208% ^c	156%	18-186%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Result is from Run# 2

(c) Outside control limits due to possible matrix interference.

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 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-CW7-C

Lab Sample ID: JA58900-8

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8081A SW846 3545

Percent Solids: 78.2

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G945.D	1	11/01/10	OPM	10/27/10	OP46373	G4G27
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.5	0.67	ug/kg	
319-84-6	alpha-BHC	ND	1.5	0.46	ug/kg	
319-85-7	beta-BHC	ND	1.5	0.73	ug/kg	
319-86-8	delta-BHC	ND	1.5	0.41	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.5	0.46	ug/kg	
12789-03-6	Chlordane	ND	38	11	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.5	0.51	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.5	0.59	ug/kg	
60-57-1	Dieldrin	ND	1.5	0.51	ug/kg	
72-54-8	4,4'-DDD	ND	1.5	0.64	ug/kg	
72-55-9	4,4'-DDE	ND	1.5	0.52	ug/kg	
50-29-3	4,4'-DDT	ND	1.5	0.63	ug/kg	
72-20-8	Endrin	ND	1.5	0.52	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.5	0.57	ug/kg	
959-98-8	Endosulfan-I	ND	1.5	0.51	ug/kg	
33213-65-9	Endosulfan-II	ND	1.5	0.57	ug/kg	
76-44-8	Heptachlor	ND	1.5	0.68	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.5	0.58	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.67	ug/kg	
8001-35-2	Toxaphene	ND	19	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		23-137%
877-09-8	Tetrachloro-m-xylene	76%		23-137%
2051-24-3	Decachlorobiphenyl	87%		22-160%
2051-24-3	Decachlorobiphenyl	85%		22-160%

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Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-CW7-C				
Lab Sample ID:	JA58900-8			Date Sampled:	10/13/10
Matrix:	SO - Soil			Date Received:	10/14/10
Method:	SW846 8082 SW846 3545			Percent Solids:	78.2
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF93922.D	1	10/28/10	VDT	10/27/10	OP46374	GEF4072
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	13	ug/kg	
11104-28-2	Aroclor 1221	ND	38	25	ug/kg	
11141-16-5	Aroclor 1232	ND	38	12	ug/kg	
53469-21-9	Aroclor 1242	ND	38	13	ug/kg	
12672-29-6	Aroclor 1248	ND	38	7.5	ug/kg	
11097-69-1	Aroclor 1254	ND	38	9.5	ug/kg	
11096-82-5	Aroclor 1260	ND	38	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		22-141%
877-09-8	Tetrachloro-m-xylene	95%		22-141%
2051-24-3	Decachlorobiphenyl	113%		18-163%
2051-24-3	Decachlorobiphenyl	123%		18-163%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-CW7-C

Lab Sample ID: JA58900-8

Matrix: SO - Soil

Date Sampled: 10/13/10

Date Received: 10/14/10

Percent Solids: 78.2

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.5	2.5	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Arsenic	3.3	2.5	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Barium	27.2	25	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Beryllium	0.35	0.25	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Boron	< 13	13	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cadmium	< 0.63	0.63	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Chromium	7.9	1.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cobalt	6.8	6.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Copper	14.8	3.2	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Lead	9.4	2.5	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Manganese	449	1.9	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Mercury	< 0.037	0.037	mg/kg	1	11/07/10	11/08/10 JF	SW846 7471A ²	SW846 7471A ⁴
Nickel	13.7	5.1	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Selenium	< 2.5	2.5	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Silver	< 0.63	0.63	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Thallium	< 1.3	1.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Tin	< 6.3	6.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Vanadium	10.3	6.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Zinc	44.2	2.5	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³

(1) Instrument QC Batch: MA25281

(2) Instrument QC Batch: MA25311

(3) Prep QC Batch: MP55449

(4) Prep QC Batch: MP55530

RL = Reporting Limit

Report of Analysis

Client Sample ID: BBNPP-CW7-C

Lab Sample ID: JA58900-8

Matrix: SO - Soil

Date Sampled: 10/13/10

Date Received: 10/14/10

Percent Solids: 78.2

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 25	25	mg/kg	1	11/01/10 22:53	MS	EPA 300/SW846 9056
Chromium, Hexavalent	< 0.51	0.51	mg/kg	1	11/03/10 12:31	RI	SW846 3060A/7196A
Chromium, Trivalent ^a	7.9	1.8	mg/kg	1	11/03/10 12:31	RI	SW846 6010/7196A M
Cyanide	< 0.26	0.26	mg/kg	1	10/20/10 16:34	VA	SW846 9012 M/LACHAT
Nitrogen, Nitrate + Nitrite	< 25	25	mg/kg	1	10/28/10 11:02	NP	EPA 353.2 M/LACHAT
Redox Potential Vs H2	404		mv	1	11/03/10	SS	ASTM D1498-76M
Solids, Percent	78.2		%	1	11/03/10	KH	SM18 2540G
Sulfate	< 130	130	mg/kg	1	11/01/10 22:53	MS	EPA 300/SW846 9056
Total Organic Carbon	12300	1300	mg/kg	1	11/02/10 16:20	SJG	CORP ENG 81M/SW9060M
pH	7.93		su	1	11/03/10	SS	SW846 9045C,D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

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3.9



Client Sample ID:	BBNPP-CW10-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-9	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	78.8
Method:	DAI BY GC/MS 8260SIM		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H100578.D	1	10/26/10	KLS	n/a	n/a	EH4374
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.32	0.10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	155% ^a		50-150%

(a) High surrogate recoveries and no positive found in this sample.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 3

3.9

Client Sample ID: BBNPP-CW10-C

Lab Sample ID: JA58900-9

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8260B

Percent Solids: 78.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108360.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

Initial Weight

Run #1 12.2 g

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.2	1.2	ug/kg	
75-05-8	Acetonitrile	ND	52	12	ug/kg	
107-02-8	Acrolein	ND	26	7.4	ug/kg	
107-13-1	Acrylonitrile	ND	26	0.43	ug/kg	
107-05-1	Allyl chloride	ND	2.6	0.45	ug/kg	
71-43-2	Benzene	ND	0.52	0.18	ug/kg	
100-44-7	Benzyl Chloride	ND	2.6	0.21	ug/kg	
74-97-5	Bromochloromethane	ND	2.6	0.11	ug/kg	
75-27-4	Bromodichloromethane	ND	2.6	0.13	ug/kg	
75-25-2	Bromoform	ND	2.6	0.079	ug/kg	
74-83-9	Bromomethane	ND	2.6	0.21	ug/kg	
78-93-3	2-Butanone (MEK)	ND	5.2	1.0	ug/kg	
71-36-3	n-Butyl Alcohol	ND	130	49	ug/kg	
104-51-8	n-Butylbenzene	ND	2.6	0.20	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.6	0.25	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.6	0.25	ug/kg	
75-15-0	Carbon disulfide	ND	2.6	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.6	0.29	ug/kg	
108-90-7	Chlorobenzene	ND	2.6	0.18	ug/kg	
75-00-3	Chloroethane	ND	2.6	0.52	ug/kg	
67-66-3	Chloroform	ND	2.6	0.17	ug/kg	
74-87-3	Chloromethane	ND	2.6	0.086	ug/kg	
126-99-8	Chloroprene	ND	2.6	0.58	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.6	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.2	0.28	ug/kg	
124-48-1	Dibromochloromethane	ND	2.6	0.057	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.52	0.071	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.6	0.072	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.52	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.6	0.34	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.6	0.12	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.6	0.23	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-CW10-C		
Lab Sample ID:	JA58900-9	Date Sampled:	10/13/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8260B	Percent Solids:	78.8
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.6	0.068	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.6	0.069	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.6	0.050	ug/kg	
123-91-1	1,4-Dioxane	ND	65	45	ug/kg	
106-89-8	Epichlorohydrin	ND	52	0.90	ug/kg	
141-78-6	Ethyl Acetate	ND	2.6	1.0	ug/kg	
60-29-7	Ethyl Ether	ND	2.6	0.17	ug/kg	
97-63-2	Ethyl methacrylate	ND	5.2	0.068	ug/kg	
100-41-4	Ethylbenzene	ND	0.52	0.19	ug/kg	
110-54-3	Hexane	ND	2.6	0.080	ug/kg	
78-83-1	Isobutyl alcohol	ND	26	6.4	ug/kg	
98-82-8	Isopropylbenzene	ND	2.6	0.27	ug/kg	
79-20-9	Methyl Acetate	ND	2.6	0.43	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.52	0.15	ug/kg	
80-62-6	Methyl methacrylate	ND	5.2	0.59	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	2.6	0.42	ug/kg	
74-95-3	Methylene bromide	ND	2.6	0.092	ug/kg	
75-09-2	Methylene chloride	ND	2.6	0.12	ug/kg	
79-46-9	2-Nitropropane	ND	5.2	0.63	ug/kg	
103-65-1	n-Propylbenzene	ND	2.6	0.13	ug/kg	
100-42-5	Styrene	ND	2.6	0.056	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.6	0.055	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	0.15	ug/kg	
127-18-4	Tetrachloroethene	ND	2.6	0.075	ug/kg	
108-88-3	Toluene	ND	0.52	0.15	ug/kg	
108-70-3	1,3,5-Trichlorobenzene	ND	2.6		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.6	0.067	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.6	0.096	ug/kg	
79-01-6	Trichloroethene	ND	2.6	0.27	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	2.6	0.17	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.6	0.22	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.6	0.19	ug/kg	
108-05-4	Vinyl Acetate	ND	5.2	0.55	ug/kg	
75-01-4	Vinyl chloride	ND	2.6	0.093	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		67-127%
17060-07-0	1,2-Dichloroethane-D4	93%		65-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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3.9

Client Sample ID: BBNPP-CW10-C**Lab Sample ID:** JA58900-9**Date Sampled:** 10/13/10**Matrix:** SO - Soil**Date Received:** 10/14/10**Method:** SW846 8260B**Percent Solids:** 78.8**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	127%		62-138%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.9

Client Sample ID: BBNPP-CW10-C

Lab Sample ID: JA58900-9

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8270C SW846 3550B

Percent Solids: 78.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P731.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	720	66	ug/kg	
95-57-8	2-Chlorophenol	ND	180	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	58	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	61	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	720	44	ug/kg	
95-48-7	2-Methylphenol	ND	72	41	ug/kg	
	3&4-Methylphenol	ND	72	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	38	ug/kg	
100-02-7	4-Nitrophenol	ND	360	61	ug/kg	
87-86-5	Pentachlorophenol	ND	360	62	ug/kg	
108-95-2	Phenol	ND	72	38	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	34	ug/kg	
83-32-9	Acenaphthene	ND	36	10	ug/kg	
208-96-8	Acenaphthylene	ND	36	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.3	ug/kg	
62-53-3	Aniline	ND	72	7.6	ug/kg	
120-12-7	Anthracene	ND	36	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.1	ug/kg	
92-87-5	Benzidine	ND	720	130	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	21	ug/kg	
100-51-6	Benzyl Alcohol	ND	72	15	ug/kg	
92-52-4	1,1'-Biphenyl	ND	72	4.2	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	ND	72	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-CW10-C		
Lab Sample ID:	JA58900-9	Date Sampled:	10/13/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	78.8
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	36	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	72	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	11	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	72	10	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	72	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	72	9.7	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	72	8.0	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	72	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	72	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	12	ug/kg	
132-64-9	Dibenzofuran	ND	72	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	72	8.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	18	ug/kg	
84-66-2	Diethyl phthalate	ND	72	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	72	32	ug/kg	
206-44-0	Fluoranthene	ND	36	16	ug/kg	
86-73-7	Fluorene	ND	36	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	720	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	13	ug/kg	
78-59-1	Isophorone	ND	72	9.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	72	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	36	9.8	ug/kg	
98-95-3	Nitrobenzene	ND	72	10	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	72	32	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	8.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	ND	36	16	ug/kg	
129-00-0	Pyrene	ND	36	14	ug/kg	
110-86-1	Pyridine	ND	72	14	ug/kg	
91-22-5	Quinoline	ND	180	34	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	72	9.6	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID: BBNPP-CW10-C	
Lab Sample ID: JA58900-9	Date Sampled: 10/13/10
Matrix: SO - Soil	Date Received: 10/14/10
Method: SW846 8270C SW846 3550B	Percent Solids: 78.8
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		30-109%
4165-62-2	Phenol-d5	40%		28-108%
118-79-6	2,4,6-Tribromophenol	58%		28-125%
4165-60-0	Nitrobenzene-d5	49%		28-113%
321-60-8	2-Fluorobiphenyl	57%		38-107%
1718-51-0	Terphenyl-d14	63%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.9

Client Sample ID: BBNPP-CW10-C

Lab Sample ID: JA58900-9

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8141B SW846 3550B

Percent Solids: 78.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZZ11466.D	1	10/21/10	AFL	10/20/10	F:OP34758	F:GZZ439
Run #2							

Run #	Initial Weight	Final Volume
Run #1	29.9 g	10.0 ml
Run #2		

OP Pesticide List

CAS No.	Compound	Result	RL	MDL	Units	Q
2921-88-2	Chlorpyrifos	ND	85	21	ug/kg	
333-41-5	Diazinon	ND	85	21	ug/kg	
62-73-7	Dichlorvos	ND	85	21	ug/kg	
60-51-5	Dimethoate	ND	85	21	ug/kg	
298-04-4	Disulfoton	ND	85	42	ug/kg	
56-38-2	Ethyl Parathion	ND	85	21	ug/kg	
121-75-5	Malathion	ND	85	21	ug/kg	
298-00-0	Methyl Parathion	ND	85	21	ug/kg	
298-02-2	Phorate	ND	85	21	ug/kg	
299-84-3	Ronnel	ND	85	21	ug/kg	
3689-24-5	Sulfotep	ND	85	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
115-86-6	Triphenyl phosphate	101%		48-133%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.9

Client Sample ID: BBNPP-CW10-C

Lab Sample ID: JA58900-9

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8151 SW846 3550B

Percent Solids: 78.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW95488.D	1	10/28/10	TDR	10/27/10	OP46377	GWV3340
Run #2 ^a	WW95614.D	1	11/04/10	TDR	10/30/10	OP46441	GWV3346

Run #	Initial Weight	Final Volume
Run #1	35.0 g	10.0 ml
Run #2	35.0 g	10.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	18	5.8	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	3.6	0.70	ug/kg	
93-76-5	2,4,5-T	ND	3.6	1.4	ug/kg	
75-99-0	Dalapon	ND	3.6	2.5	ug/kg	
88-85-7	Dinoseb	ND	18	4.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	26%	90%	13-146%
19719-28-9	2,4-DCAA	22%	95%	13-146%

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

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3.9

Client Sample ID: BBNPP-CW10-C

Lab Sample ID: JA58900-9

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8315 SW846 3510C

Percent Solids: 78.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	VU28487.D	1	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1288
Run #2 ^a	VU28527.D	5	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1289

	Initial Weight	Final Volume
Run #1	25.0 g	1.0 ml
Run #2	25.0 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
50-00-0	Formaldehyde	16400 ^b	5100	720	ug/kg	
75-07-0	Acetaldehyde	111	1000	59	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
123-72-8	Butyraldehyde	199% ^c	167%	18-186%
123-72-8	Butyraldehyde	202% ^c	174%	18-186%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Result is from Run# 2

(c) Outside control limits due to possible matrix interference.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

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3.9

Client Sample ID: BBNPP-CW10-C

Lab Sample ID: JA58900-9

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8081A SW846 3545

Percent Solids: 78.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G946.D	1	11/01/10	OPM	10/27/10	OP46373	G4G27
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.5	0.67	ug/kg	
319-84-6	alpha-BHC	ND	1.5	0.46	ug/kg	
319-85-7	beta-BHC	ND	1.5	0.72	ug/kg	
319-86-8	delta-BHC	ND	1.5	0.41	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.5	0.46	ug/kg	
12789-03-6	Chlordane	ND	37	11	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.5	0.50	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.5	0.58	ug/kg	
60-57-1	Dieldrin	ND	1.5	0.50	ug/kg	
72-54-8	4,4'-DDD	ND	1.5	0.64	ug/kg	
72-55-9	4,4'-DDE	ND	1.5	0.52	ug/kg	
50-29-3	4,4'-DDT	ND	1.5	0.63	ug/kg	
72-20-8	Endrin	ND	1.5	0.52	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.5	0.57	ug/kg	
959-98-8	Endosulfan-I	ND	1.5	0.51	ug/kg	
33213-65-9	Endosulfan-II	ND	1.5	0.57	ug/kg	
76-44-8	Heptachlor	ND	1.5	0.67	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.5	0.57	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.67	ug/kg	
8001-35-2	Toxaphene	ND	19	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		23-137%
877-09-8	Tetrachloro-m-xylene	80%		23-137%
2051-24-3	Decachlorobiphenyl	89%		22-160%
2051-24-3	Decachlorobiphenyl	87%		22-160%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

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3.9

Client Sample ID: BBNPP-CW10-C

Lab Sample ID: JA58900-9

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8082 SW846 3545

Percent Solids: 78.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF93923.D	1	10/28/10	VDT	10/27/10	OP46374	GEF4072
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	13	ug/kg	
11104-28-2	Aroclor 1221	ND	37	25	ug/kg	
11141-16-5	Aroclor 1232	ND	37	12	ug/kg	
53469-21-9	Aroclor 1242	ND	37	13	ug/kg	
12672-29-6	Aroclor 1248	ND	37	7.4	ug/kg	
11097-69-1	Aroclor 1254	ND	37	9.4	ug/kg	
11096-82-5	Aroclor 1260	ND	37	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		22-141%
877-09-8	Tetrachloro-m-xylene	102%		22-141%
2051-24-3	Decachlorobiphenyl	117%		18-163%
2051-24-3	Decachlorobiphenyl	126%		18-163%

ND = Not detected MDL - Method Detection Limit

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J = Indicates an estimated value

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Report of Analysis

Client Sample ID: BBNPP-CW10-C

Lab Sample ID: JA58900-9

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Percent Solids: 78.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.6	2.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Arsenic	3.9	2.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Barium	32.0	26	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Beryllium	0.39	0.26	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Boron	< 13	13	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cadmium	< 0.66	0.66	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Chromium	8.7	1.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cobalt	7.6	6.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Copper	15.3	3.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Lead	10.6	2.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Manganese	397	2.0	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Mercury	< 0.037	0.037	mg/kg	1	11/07/10	11/08/10 JF	SW846 7471A ²	SW846 7471A ⁴
Nickel	14.7	5.2	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Selenium	< 2.6	2.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Silver	< 0.66	0.66	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Thallium	< 1.3	1.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Tin	< 6.6	6.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Vanadium	11.0	6.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Zinc	40.1	2.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³

(1) Instrument QC Batch: MA25281

(2) Instrument QC Batch: MA25311

(3) Prep QC Batch: MP55449

(4) Prep QC Batch: MP55530

RL = Reporting Limit

Report of Analysis

Client Sample ID: BBNPP-CW10-C

Lab Sample ID: JA58900-9

Matrix: SO - Soil

Date Sampled: 10/13/10

Date Received: 10/14/10

Percent Solids: 78.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 25	25	mg/kg	1	11/02/10 00:04	MS	EPA 300/SW846 9056
Chromium, Hexavalent	< 0.51	0.51	mg/kg	1	11/03/10 12:31	RI	SW846 3060A/7196A
Chromium, Trivalent ^a	8.7	1.8	mg/kg	1	11/03/10 12:31	RI	SW846 6010/7196A M
Cyanide	< 0.27	0.27	mg/kg	1	10/20/10 16:35	VA	SW846 9012 M/LACHAT
Nitrogen, Nitrate + Nitrite	< 24	24	mg/kg	1	10/28/10 11:05	NP	EPA 353.2 M/LACHAT
Redox Potential Vs H2	426		mv	1	11/03/10	SS	ASTM D1498-76M
Solids, Percent	78.8		%	1	11/03/10	KH	SM18 2540G
Sulfate	< 130	130	mg/kg	1	11/02/10 00:04	MS	EPA 300/SW846 9056
Total Organic Carbon ^b	18500	1300	mg/kg	1	11/02/10 13:18	SJG	CORP ENG 81M/SW9060M
pH	7.79		su	1	11/03/10	SS	SW846 9045C,D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

(b) Multiple injections indicate possible sample non-homogeneity.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-CW13-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-10	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	60.9
Method:	DAI BY GC/MS 8260SIM		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H100606.D	1	10/27/10	KLS	n/a	n/a	EH4374
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.41	0.13	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	78%		50-150%

ND = Not detected MDL - Method Detection Limit

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Accutest Laboratories

Report of Analysis

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3.10
3

Client Sample ID: BBNPP-CW13-C

Lab Sample ID: JA58900-10

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8260B

Percent Solids: 60.9

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108361.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

Initial Weight

Run #1 9.7 g

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	16.3	8.5	1.9	ug/kg	
75-05-8	Acetonitrile	ND	85	20	ug/kg	
107-02-8	Acrolein	ND	42	12	ug/kg	
107-13-1	Acrylonitrile	ND	42	0.70	ug/kg	
107-05-1	Allyl chloride	ND	4.2	0.73	ug/kg	
71-43-2	Benzene	ND	0.85	0.29	ug/kg	
100-44-7	Benzyl Chloride	ND	4.2	0.34	ug/kg	
74-97-5	Bromochloromethane	ND	4.2	0.19	ug/kg	
75-27-4	Bromodichloromethane	ND	4.2	0.22	ug/kg	
75-25-2	Bromoform	ND	4.2	0.13	ug/kg	
74-83-9	Bromomethane	ND	4.2	0.34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8.5	1.7	ug/kg	
71-36-3	n-Butyl Alcohol	ND	210	80	ug/kg	
104-51-8	n-Butylbenzene	ND	4.2	0.32	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.2	0.41	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.2	0.40	ug/kg	
75-15-0	Carbon disulfide	ND	4.2	0.26	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.2	0.47	ug/kg	
108-90-7	Chlorobenzene	ND	4.2	0.29	ug/kg	
75-00-3	Chloroethane	ND	4.2	0.85	ug/kg	
67-66-3	Chloroform	ND	4.2	0.27	ug/kg	
74-87-3	Chloromethane	ND	4.2	0.14	ug/kg	
126-99-8	Chloroprene	ND	4.2	0.94	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.2	0.24	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.5	0.46	ug/kg	
124-48-1	Dibromochloromethane	ND	4.2	0.093	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.85	0.12	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.2	0.12	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.85	0.29	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.2	0.56	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.2	0.20	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.2	0.38	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID:	BBNPP-CW13-C		
Lab Sample ID:	JA58900-10	Date Sampled:	10/13/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8260B	Percent Solids:	60.9
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	4.2	0.11	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.2	0.11	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.2	0.081	ug/kg	
123-91-1	1,4-Dioxane	ND	110	73	ug/kg	
106-89-8	Epichlorohydrin	ND	85	1.5	ug/kg	
141-78-6	Ethyl Acetate	ND	4.2	1.6	ug/kg	
60-29-7	Ethyl Ether	ND	4.2	0.28	ug/kg	
97-63-2	Ethyl methacrylate	ND	8.5	0.11	ug/kg	
100-41-4	Ethylbenzene	ND	0.85	0.31	ug/kg	
110-54-3	Hexane	ND	4.2	0.13	ug/kg	
78-83-1	Isobutyl alcohol	ND	42	10	ug/kg	
98-82-8	Isopropylbenzene	ND	4.2	0.44	ug/kg	
79-20-9	Methyl Acetate	ND	4.2	0.70	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.85	0.24	ug/kg	
80-62-6	Methyl methacrylate	ND	8.5	0.96	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.2	0.69	ug/kg	
74-95-3	Methylene bromide	ND	4.2	0.15	ug/kg	
75-09-2	Methylene chloride	ND	4.2	0.19	ug/kg	
79-46-9	2-Nitropropane	ND	8.5	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	4.2	0.22	ug/kg	
100-42-5	Styrene	ND	4.2	0.091	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.2	0.090	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.2	0.25	ug/kg	
127-18-4	Tetrachloroethene	ND	4.2	0.12	ug/kg	
108-88-3	Toluene	ND	0.85	0.25	ug/kg	
108-70-3	1,3,5-Trichlorobenzene	ND	4.2		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.2	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.2	0.16	ug/kg	
79-01-6	Trichloroethene	ND	4.2	0.45	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.2	0.27	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.2	0.36	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.2	0.30	ug/kg	
108-05-4	Vinyl Acetate	ND	8.5	0.89	ug/kg	
75-01-4	Vinyl chloride	ND	4.2	0.15	ug/kg	
1330-20-7	Xylene (total)	ND	1.7	0.40	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		67-127%
17060-07-0	1,2-Dichloroethane-D4	98%		65-132%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID: BBNPP-CW13-C	
Lab Sample ID: JA58900-10	Date Sampled: 10/13/10
Matrix: SO - Soil	Date Received: 10/14/10
Method: SW846 8260B	Percent Solids: 60.9
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	109%		74-129%
460-00-4	4-Bromofluorobenzene	111%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-CW13-C		Date Sampled:	10/13/10
Lab Sample ID:	JA58900-10		Date Received:	10/14/10
Matrix:	SO - Soil		Percent Solids:	60.9
Method:	SW846 8270C SW846 3550B			
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P736.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	930	85	ug/kg	
95-57-8	2-Chlorophenol	ND	230	47	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	230	47	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	230	75	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	230	78	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	930	57	ug/kg	
95-48-7	2-Methylphenol	ND	93	53	ug/kg	
	3&4-Methylphenol	ND	93	59	ug/kg	
88-75-5	2-Nitrophenol	ND	230	49	ug/kg	
100-02-7	4-Nitrophenol	ND	470	79	ug/kg	
87-86-5	Pentachlorophenol	ND	470	80	ug/kg	
108-95-2	Phenol	ND	93	49	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	230	48	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	230	54	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	230	44	ug/kg	
83-32-9	Acenaphthene	ND	47	14	ug/kg	
208-96-8	Acenaphthylene	ND	47	15	ug/kg	
98-86-2	Acetophenone	ND	230	8.2	ug/kg	
62-53-3	Aniline	ND	93	9.8	ug/kg	
120-12-7	Anthracene	ND	47	16	ug/kg	
1912-24-9	Atrazine	ND	230	9.2	ug/kg	
92-87-5	Benzidine	ND	930	170	ug/kg	
56-55-3	Benzo(a)anthracene	21.2	47	15	ug/kg	J
50-32-8	Benzo(a)pyrene	ND	47	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	47	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	47	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	47	18	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	93	27	ug/kg	
100-51-6	Benzyl Alcohol	ND	93	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	93	5.4	ug/kg	
106-47-8	4-Chloroaniline	ND	230	15	ug/kg	
86-74-8	Carbazole	ND	93	22	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-CW13-C		
Lab Sample ID:	JA58900-10	Date Sampled:	10/13/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	60.9
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	34.1	47	16	ug/kg	J
111-44-4	bis(2-Chloroethyl)ether	ND	93	14	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	93	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	93	14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	93	13	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	93	19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	93	13	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	93	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	93	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	93	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	230	12	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	47	16	ug/kg	
132-64-9	Dibenzofuran	ND	93	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	93	10	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	93	23	ug/kg	
84-66-2	Diethyl phthalate	ND	93	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	93	41	ug/kg	
206-44-0	Fluoranthene	37.7	47	21	ug/kg	J
86-73-7	Fluorene	ND	47	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	93	15	ug/kg	
87-68-3	Hexachlorobutadiene	ND	47	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	930	48	ug/kg	
67-72-1	Hexachloroethane	ND	230	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	47	16	ug/kg	
78-59-1	Isophorone	ND	93	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	93	26	ug/kg	
88-74-4	2-Nitroaniline	ND	230	21	ug/kg	
99-09-2	3-Nitroaniline	ND	230	19	ug/kg	
100-01-6	4-Nitroaniline	ND	230	18	ug/kg	
91-20-3	Naphthalene	ND	47	13	ug/kg	
98-95-3	Nitrobenzene	ND	93	13	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	93	41	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	93	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	230	28	ug/kg	
85-01-8	Phenanthrene	ND	47	21	ug/kg	
129-00-0	Pyrene	37.2	47	18	ug/kg	J
110-86-1	Pyridine	ND	93	19	ug/kg	
91-22-5	Quinoline	ND	230	44	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	230	14	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	93	12	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID:	BBNPP-CW13-C		
Lab Sample ID:	JA58900-10	Date Sampled:	10/13/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	60.9
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		30-109%
4165-62-2	Phenol-d5	46%		28-108%
118-79-6	2,4,6-Tribromophenol	73%		28-125%
4165-60-0	Nitrobenzene-d5	56%		28-113%
321-60-8	2-Fluorobiphenyl	67%		38-107%
1718-51-0	Terphenyl-d14	83%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-CW13-C				
Lab Sample ID:	JA58900-10			Date Sampled:	10/13/10
Matrix:	SO - Soil			Date Received:	10/14/10
Method:	SW846 8141B SW846 3550B			Percent Solids:	60.9
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZZ11467.D	1	10/21/10	AFL	10/20/10	F:OP34758	F:GZZ439
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	10.0 ml
Run #2		

OP Pesticide List

CAS No.	Compound	Result	RL	MDL	Units	Q
2921-88-2	Chlorpyrifos	ND	110	28	ug/kg	
333-41-5	Diazinon	ND	110	28	ug/kg	
62-73-7	Dichlorvos	ND	110	28	ug/kg	
60-51-5	Dimethoate	ND	110	28	ug/kg	
298-04-4	Disulfoton	ND	110	55	ug/kg	
56-38-2	Ethyl Parathion	ND	110	28	ug/kg	
121-75-5	Malathion	ND	110	28	ug/kg	
298-00-0	Methyl Parathion	ND	110	28	ug/kg	
298-02-2	Phorate	ND	110	28	ug/kg	
299-84-3	Ronnel	ND	110	28	ug/kg	
3689-24-5	Sulfotep	ND	110	28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
115-86-6	Triphenyl phosphate	127%		48-133%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

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3.10



Client Sample ID: BBNPP-CW13-C

Lab Sample ID: JA58900-10

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8151 SW846 3550B

Percent Solids: 60.9

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW95581.D	1	11/03/10	TDR	10/27/10	OP46377	GWW3344
Run #2 ^a	WW95628.D	1	11/04/10	TDR	10/30/10	OP46441	GWW3346

	Initial Weight	Final Volume
Run #1	35.1 g	10.0 ml
Run #2	35.0 g	10.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	23	7.5	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	4.7	0.90	ug/kg	
93-76-5	2,4,5-T	ND	4.7	1.8	ug/kg	
75-99-0	Dalapon	ND	4.7	3.3	ug/kg	
88-85-7	Dinoseb	ND	23	6.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	59%	90%	13-146%
19719-28-9	2,4-DCAA	56%	50%	13-146%

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.10

Client Sample ID: BBNPP-CW13-C

Lab Sample ID: JA58900-10

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8315 SW846 3510C

Percent Solids: 60.9

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	VU28488.D	1	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1288
Run #2 ^a	VU28528.D	5	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1289

	Initial Weight	Final Volume
Run #1	25.0 g	1.0 ml
Run #2	25.0 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
50-00-0	Formaldehyde	10700 ^b	6600	930	ug/kg	
75-07-0	Acetaldehyde	184	1300	77	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
123-72-8	Butyraldehyde	185%	168%	18-186%
123-72-8	Butyraldehyde	185%	169%	18-186%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.10

Client Sample ID: BBNPP-CW13-C

Lab Sample ID: JA58900-10

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8081A SW846 3545

Percent Solids: 60.9

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G1018.D	1	11/03/10	OPM	10/27/10	OP46373	G4G29
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.9	0.86	ug/kg	
319-84-6	alpha-BHC	ND	1.9	0.59	ug/kg	
319-85-7	beta-BHC	ND	1.9	0.94	ug/kg	
319-86-8	delta-BHC	ND	1.9	0.53	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.9	0.60	ug/kg	
12789-03-6	Chlordane	ND	48	14	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.9	0.65	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.9	0.76	ug/kg	
60-57-1	Dieldrin	ND	1.9	0.65	ug/kg	
72-54-8	4,4'-DDD	ND	1.9	0.83	ug/kg	
72-55-9	4,4'-DDE	ND	1.9	0.67	ug/kg	
50-29-3	4,4'-DDT	ND	1.9	0.81	ug/kg	
72-20-8	Endrin	ND	1.9	0.67	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.9	0.74	ug/kg	
959-98-8	Endosulfan-I	ND	1.9	0.66	ug/kg	
33213-65-9	Endosulfan-II	ND	1.9	0.74	ug/kg	
76-44-8	Heptachlor	ND	1.9	0.87	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.9	0.74	ug/kg	
72-43-5	Methoxychlor	ND	1.9	0.86	ug/kg	
8001-35-2	Toxaphene	ND	24	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		23-137%
877-09-8	Tetrachloro-m-xylene	76%		23-137%
2051-24-3	Decachlorobiphenyl	93%		22-160%
2051-24-3	Decachlorobiphenyl	93%		22-160%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-CW13-C

Lab Sample ID: JA58900-10

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8082 SW846 3545

Percent Solids: 60.9

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF93924.D	1	10/28/10	VDT	10/27/10	OP46374	GEF4072
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	48	17	ug/kg	
11104-28-2	Aroclor 1221	ND	48	32	ug/kg	
11141-16-5	Aroclor 1232	ND	48	16	ug/kg	
53469-21-9	Aroclor 1242	ND	48	17	ug/kg	
12672-29-6	Aroclor 1248	ND	48	9.6	ug/kg	
11097-69-1	Aroclor 1254	ND	48	12	ug/kg	
11096-82-5	Aroclor 1260	ND	48	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		22-141%
877-09-8	Tetrachloro-m-xylene	94%		22-141%
2051-24-3	Decachlorobiphenyl	117%		18-163%
2051-24-3	Decachlorobiphenyl	129%		18-163%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-CW13-C

Lab Sample ID: JA58900-10

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Percent Solids: 60.9

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 3.1	3.1	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Arsenic	4.7	3.1	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Barium	< 31	31	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Beryllium	0.47	0.31	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Boron	< 16	16	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cadmium	< 0.78	0.78	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Chromium	9.3	1.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cobalt	8.0	7.8	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Copper	15.6	3.9	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Lead	11.4	3.1	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Manganese	394	2.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Mercury	< 0.049	0.049	mg/kg	1	11/07/10	11/08/10 JF	SW846 7471A ²	SW846 7471A ⁴
Nickel	15.7	6.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Selenium	< 3.1	3.1	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Silver	0.99	0.78	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Thallium	< 1.6	1.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Tin	< 7.8	7.8	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Vanadium	10.9	7.8	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Zinc	47.3	3.1	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³

(1) Instrument QC Batch: MA25281

(2) Instrument QC Batch: MA25311

(3) Prep QC Batch: MP55449

(4) Prep QC Batch: MP55530

RL = Reporting Limit

Report of Analysis

**Client Sample ID:** BBNPP-CW13-C**Lab Sample ID:** JA58900-10**Date Sampled:** 10/13/10**Matrix:** SO - Soil**Date Received:** 10/14/10**Percent Solids:** 60.9**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 33	33	mg/kg	1	11/02/10 00:28	MS	EPA 300/SW846 9056
Chromium, Hexavalent	< 0.66	0.66	mg/kg	1	11/03/10 12:31	RI	SW846 3060A/7196A
Chromium, Trivalent ^a	9.3	2.3	mg/kg	1	11/03/10 12:31	RI	SW846 6010/7196A M
Cyanide	< 0.35	0.35	mg/kg	1	10/20/10 16:36	VA	SW846 9012 M/LACHAT
Nitrogen, Nitrate + Nitrite	< 30	30	mg/kg	1	10/28/10 11:06	NP	EPA 353.2 M/LACHAT
Redox Potential Vs H2	429		mv	1	11/03/10	SS	ASTM D1498-76M
Solids, Percent	60.9		%	1	11/03/10	KH	SM18 2540G
Sulfate	< 160	160	mg/kg	1	11/02/10 00:28	MS	EPA 300/SW846 9056
Total Organic Carbon ^b	30000	1600	mg/kg	1	11/02/10 13:44	SJG	CORP ENG 81M/SW9060M
pH	6.77		su	1	11/03/10	SS	SW846 9045C,D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

(b) Multiple injections indicate possible sample non-homogeneity.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-CW16-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-11	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	71.7
Method:	DAI BY GC/MS 8260SIM		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H100607.D	1	10/27/10	KLS	n/a	n/a	EH4374
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.35	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	74%		50-150%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-CW16-C

Lab Sample ID: JA58900-11

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8260B

Percent Solids: 71.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108362.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	9.2 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	33.1	7.6	1.7	ug/kg	
75-05-8	Acetonitrile	ND	76	18	ug/kg	
107-02-8	Acrolein	ND	38	11	ug/kg	
107-13-1	Acrylonitrile	ND	38	0.62	ug/kg	
107-05-1	Allyl chloride	ND	3.8	0.65	ug/kg	
71-43-2	Benzene	ND	0.76	0.26	ug/kg	
100-44-7	Benzyl Chloride	ND	3.8	0.30	ug/kg	
74-97-5	Bromochloromethane	ND	3.8	0.17	ug/kg	
75-27-4	Bromodichloromethane	ND	3.8	0.19	ug/kg	
75-25-2	Bromoform	ND	3.8	0.11	ug/kg	
74-83-9	Bromomethane	ND	3.8	0.31	ug/kg	
78-93-3	2-Butanone (MEK)	5.7	7.6	1.5	ug/kg	J
71-36-3	n-Butyl Alcohol	ND	190	72	ug/kg	
104-51-8	n-Butylbenzene	ND	3.8	0.29	ug/kg	
135-98-8	sec-Butylbenzene	ND	3.8	0.37	ug/kg	
98-06-6	tert-Butylbenzene	ND	3.8	0.36	ug/kg	
75-15-0	Carbon disulfide	ND	3.8	0.23	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.8	0.42	ug/kg	
108-90-7	Chlorobenzene	ND	3.8	0.26	ug/kg	
75-00-3	Chloroethane	ND	3.8	0.76	ug/kg	
67-66-3	Chloroform	ND	3.8	0.24	ug/kg	
74-87-3	Chloromethane	ND	3.8	0.13	ug/kg	
126-99-8	Chloroprene	ND	3.8	0.84	ug/kg	
95-49-8	o-Chlorotoluene	ND	3.8	0.22	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.6	0.41	ug/kg	
124-48-1	Dibromochloromethane	ND	3.8	0.083	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.76	0.10	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.8	0.10	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.76	0.26	ug/kg	
75-35-4	1,1-Dichloroethene	ND	3.8	0.50	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	3.8	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	3.8	0.34	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-CW16-C		
Lab Sample ID:	JA58900-11	Date Sampled:	10/13/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8260B	Percent Solids:	71.7
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	3.8	0.099	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.8	0.10	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.8	0.073	ug/kg	
123-91-1	1,4-Dioxane	ND	95	65	ug/kg	
106-89-8	Epichlorohydrin	ND	76	1.3	ug/kg	
141-78-6	Ethyl Acetate	ND	3.8	1.5	ug/kg	
60-29-7	Ethyl Ether	ND	3.8	0.25	ug/kg	
97-63-2	Ethyl methacrylate	ND	7.6	0.099	ug/kg	
100-41-4	Ethylbenzene	ND	0.76	0.28	ug/kg	
110-54-3	Hexane	ND	3.8	0.12	ug/kg	
78-83-1	Isobutyl alcohol	ND	38	9.4	ug/kg	
98-82-8	Isopropylbenzene	ND	3.8	0.39	ug/kg	
79-20-9	Methyl Acetate	ND	3.8	0.62	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.76	0.21	ug/kg	
80-62-6	Methyl methacrylate	ND	7.6	0.86	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	3.8	0.61	ug/kg	
74-95-3	Methylene bromide	ND	3.8	0.13	ug/kg	
75-09-2	Methylene chloride	ND	3.8	0.17	ug/kg	
79-46-9	2-Nitropropane	ND	7.6	0.92	ug/kg	
103-65-1	n-Propylbenzene	ND	3.8	0.19	ug/kg	
100-42-5	Styrene	ND	3.8	0.081	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.8	0.080	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.8	0.22	ug/kg	
127-18-4	Tetrachloroethene	ND	3.8	0.11	ug/kg	
108-88-3	Toluene	ND	0.76	0.22	ug/kg	
108-70-3	1,3,5-Trichlorobenzene	ND	3.8		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.8	0.097	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.8	0.14	ug/kg	
79-01-6	Trichloroethene	ND	3.8	0.40	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.8	0.24	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.8	0.33	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.8	0.27	ug/kg	
108-05-4	Vinyl Acetate	ND	7.6	0.80	ug/kg	
75-01-4	Vinyl chloride	ND	3.8	0.13	ug/kg	
1330-20-7	Xylene (total)	ND	1.5	0.36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		67-127%
17060-07-0	1,2-Dichloroethane-D4	100%		65-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	BBNPP-CW16-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-11	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	71.7
Method:	SW846 8260B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	109%		74-129%
460-00-4	4-Bromofluorobenzene	109%		62-138%

ND = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

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Client Sample ID:	BBNPP-CW16-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-11	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	71.7
Method:	SW846 8270C SW846 3550B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P737.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	790	72	ug/kg	
95-57-8	2-Chlorophenol	ND	200	40	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	40	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	64	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	67	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	790	48	ug/kg	
95-48-7	2-Methylphenol	ND	79	45	ug/kg	
	3&4-Methylphenol	ND	79	50	ug/kg	
88-75-5	2-Nitrophenol	ND	200	42	ug/kg	
100-02-7	4-Nitrophenol	ND	400	67	ug/kg	
87-86-5	Pentachlorophenol	ND	400	68	ug/kg	
108-95-2	Phenol	ND	79	42	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	41	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	46	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	37	ug/kg	
83-32-9	Acenaphthene	ND	40	11	ug/kg	
208-96-8	Acenaphthylene	ND	40	13	ug/kg	
98-86-2	Acetophenone	ND	200	7.0	ug/kg	
62-53-3	Aniline	ND	79	8.3	ug/kg	
120-12-7	Anthracene	ND	40	14	ug/kg	
1912-24-9	Atrazine	ND	200	7.8	ug/kg	
92-87-5	Benzidine	ND	790	150	ug/kg	
56-55-3	Benzo(a)anthracene	ND	40	13	ug/kg	
50-32-8	Benzo(a)pyrene	ND	40	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	40	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	40	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	40	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	79	23	ug/kg	
100-51-6	Benzyl Alcohol	ND	79	16	ug/kg	
92-52-4	1,1'-Biphenyl	ND	79	4.6	ug/kg	
106-47-8	4-Chloroaniline	ND	200	13	ug/kg	
86-74-8	Carbazole	ND	79	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-CW16-C		
Lab Sample ID:	JA58900-11	Date Sampled:	10/13/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	71.7
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	40	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	79	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	79	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	79	12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	79	11	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	79	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	79	11	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	79	8.8	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	79	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	79	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	200	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	40	14	ug/kg	
132-64-9	Dibenzofuran	ND	79	12	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	79	8.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	79	19	ug/kg	
84-66-2	Diethyl phthalate	ND	79	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	79	35	ug/kg	
206-44-0	Fluoranthene	ND	40	17	ug/kg	
86-73-7	Fluorene	ND	40	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	79	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	40	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	790	40	ug/kg	
67-72-1	Hexachloroethane	ND	200	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40	14	ug/kg	
78-59-1	Isophorone	ND	79	11	ug/kg	
91-57-6	2-Methylnaphthalene	ND	79	22	ug/kg	
88-74-4	2-Nitroaniline	ND	200	17	ug/kg	
99-09-2	3-Nitroaniline	ND	200	16	ug/kg	
100-01-6	4-Nitroaniline	ND	200	15	ug/kg	
91-20-3	Naphthalene	ND	40	11	ug/kg	
98-95-3	Nitrobenzene	ND	79	11	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	79	35	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	79	9.7	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	24	ug/kg	
85-01-8	Phenanthrene	ND	40	18	ug/kg	
129-00-0	Pyrene	16.7	40	15	ug/kg	J
110-86-1	Pyridine	ND	79	16	ug/kg	
91-22-5	Quinoline	ND	200	37	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	12	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	79	11	ug/kg	

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RL = Reporting Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: BBNPP-CW16-C	
Lab Sample ID: JA58900-11	Date Sampled: 10/13/10
Matrix: SO - Soil	Date Received: 10/14/10
Method: SW846 8270C SW846 3550B	Percent Solids: 71.7
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		30-109%
4165-62-2	Phenol-d5	32%		28-108%
118-79-6	2,4,6-Tribromophenol	51%		28-125%
4165-60-0	Nitrobenzene-d5	38%		28-113%
321-60-8	2-Fluorobiphenyl	41%		38-107%
1718-51-0	Terphenyl-d14	62%		31-116%

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-CW16-C

Lab Sample ID: JA58900-11

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8141B SW846 3550B

Percent Solids: 71.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZZ11468.D	1	10/21/10	AFL	10/20/10	F:OP34758	F:GZZ439
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	10.0 ml
Run #2		

OP Pesticide List

CAS No.	Compound	Result	RL	MDL	Units	Q
2921-88-2	Chlorpyrifos	ND	94	23	ug/kg	
333-41-5	Diazinon	ND	94	23	ug/kg	
62-73-7	Dichlorvos	ND	94	23	ug/kg	
60-51-5	Dimethoate	ND	94	23	ug/kg	
298-04-4	Disulfoton	ND	94	47	ug/kg	
56-38-2	Ethyl Parathion	ND	94	23	ug/kg	
121-75-5	Malathion	ND	94	23	ug/kg	
298-00-0	Methyl Parathion	ND	94	23	ug/kg	
298-02-2	Phorate	ND	94	23	ug/kg	
299-84-3	Ronnel	ND	94	23	ug/kg	
3689-24-5	Sulfotep	ND	94	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
115-86-6	Triphenyl phosphate	126%		48-133%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

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 RL = Reporting Limit
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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-CW16-C

Lab Sample ID: JA58900-11

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8151 SW846 3550B

Percent Solids: 71.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW95582.D	1	11/03/10	TDR	10/27/10	OP46377	GW3344
Run #2 ^a	WW95622.D	1	11/04/10	TDR	10/30/10	OP46441	GW3346

Run #	Initial Weight	Final Volume
Run #1	35.3 g	10.0 ml
Run #2	35.0 g	10.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	20	6.3	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	4.0	0.76	ug/kg	
93-76-5	2,4,5-T	ND	4.0	1.6	ug/kg	
75-99-0	Dalapon	ND	4.0	2.8	ug/kg	
88-85-7	Dinoseb	ND	20	5.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	53%	94%	13-146%
19719-28-9	2,4-DCAA	52%	43%	13-146%

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
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 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-CW16-C

Lab Sample ID: JA58900-11

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8315 SW846 3510C

Percent Solids: 71.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	VU28489.D	1	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1288
Run #2 ^a	VU28529.D	5	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1289

	Initial Weight	Final Volume
Run #1	25.0 g	1.0 ml
Run #2	25.0 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
50-00-0	Formaldehyde	8510 ^b	5600	790	ug/kg	
75-07-0	Acetaldehyde	193	1100	65	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
123-72-8	Butyraldehyde	165%	155%	18-186%
123-72-8	Butyraldehyde	164%	154%	18-186%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-CW16-C

Lab Sample ID: JA58900-11

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8081A SW846 3545

Percent Solids: 71.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G1019.D	1	11/03/10	OPM	10/27/10	OP46373	G4G29
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.6	0.73	ug/kg	
319-84-6	alpha-BHC	ND	1.6	0.51	ug/kg	
319-85-7	beta-BHC	ND	1.6	0.80	ug/kg	
319-86-8	delta-BHC	ND	1.6	0.45	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.6	0.51	ug/kg	
12789-03-6	Chlordane	ND	41	12	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.6	0.55	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.6	0.64	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.55	ug/kg	
72-54-8	4,4'-DDD	ND	1.6	0.70	ug/kg	
72-55-9	4,4'-DDE	3.5	1.6	0.57	ug/kg	
50-29-3	4,4'-DDT	12.5	1.6	0.69	ug/kg	
72-20-8	Endrin	ND	1.6	0.57	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.6	0.63	ug/kg	
959-98-8	Endosulfan-I	ND	1.6	0.56	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.63	ug/kg	
76-44-8	Heptachlor	ND	1.6	0.74	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.6	0.63	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.73	ug/kg	
8001-35-2	Toxaphene	ND	21	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		23-137%
877-09-8	Tetrachloro-m-xylene	56%		23-137%
2051-24-3	Decachlorobiphenyl	77%		22-160%
2051-24-3	Decachlorobiphenyl	78%		22-160%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-CW16-C

Lab Sample ID: JA58900-11

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8082 SW846 3545

Percent Solids: 71.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF93925.D	1	10/28/10	VDT	10/27/10	OP46374	GEF4072
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	41	15	ug/kg	
11104-28-2	Aroclor 1221	ND	41	27	ug/kg	
11141-16-5	Aroclor 1232	ND	41	13	ug/kg	
53469-21-9	Aroclor 1242	ND	41	15	ug/kg	
12672-29-6	Aroclor 1248	ND	41	8.1	ug/kg	
11097-69-1	Aroclor 1254	ND	41	10	ug/kg	
11096-82-5	Aroclor 1260	ND	41	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	60%		22-141%
877-09-8	Tetrachloro-m-xylene	61%		22-141%
2051-24-3	Decachlorobiphenyl	84%		18-163%
2051-24-3	Decachlorobiphenyl	89%		18-163%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
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 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-CW16-C

Lab Sample ID: JA58900-11

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Percent Solids: 71.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.7	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Arsenic	4.3	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Barium	46.3	27	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Beryllium	0.41	0.27	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Boron	< 14	14	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cadmium	< 0.68	0.68	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Chromium	13.4	1.4	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cobalt	7.6	6.8	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Copper	14.6	3.4	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Lead	11.0	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Manganese	355	2.0	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Mercury	0.16	0.041	mg/kg	1	11/07/10	11/08/10 JF	SW846 7471A ²	SW846 7471A ⁴
Nickel	17.5	5.4	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Selenium	< 2.7	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Silver	< 0.68	0.68	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Thallium	< 1.4	1.4	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Tin	< 6.8	6.8	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Vanadium	13.0	6.8	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Zinc	49.2	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³

(1) Instrument QC Batch: MA25281

(2) Instrument QC Batch: MA25311

(3) Prep QC Batch: MP55449

(4) Prep QC Batch: MP55530

RL = Reporting Limit

Report of Analysis

Client Sample ID: BBNPP-CW16-C

Lab Sample ID: JA58900-11

Matrix: SO - Soil

Date Sampled: 10/13/10

Date Received: 10/14/10

Percent Solids: 71.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	32.7	28	mg/kg	1	11/02/10 00:52	MS	EPA 300/SW846 9056
Chromium, Hexavalent	< 0.56	0.56	mg/kg	1	11/03/10 12:31	RI	SW846 3060A/7196A
Chromium, Trivalent ^a	13.4	2.0	mg/kg	1	11/03/10 12:31	RI	SW846 6010/7196A M
Cyanide	< 0.29	0.29	mg/kg	1	10/20/10 16:38	VA	SW846 9012 M/LACHAT
Nitrogen, Nitrate + Nitrite	< 26	26	mg/kg	1	10/28/10 11:06	NP	EPA 353.2 M/LACHAT
Redox Potential Vs H2	418		mv	1	11/03/10	SS	ASTM D1498-76M
Solids, Percent	71.7		%	1	11/03/10	KH	SM18 2540G
Sulfate	< 140	140	mg/kg	1	11/02/10 00:52	MS	EPA 300/SW846 9056
Total Organic Carbon	20100	1400	mg/kg	1	11/02/10 13:56	SJG	CORP ENG 81M/SW9060M
pH	6.59		su	1	11/03/10	SS	SW846 9045C,D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-CW19-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-12	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	74.2
Method:	DAI BY GC/MS 8260SIM		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H100600.D	1	10/27/10	KLS	n/a	n/a	EH4374
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.34	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	76%		50-150%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-CW19-C

Lab Sample ID: JA58900-12

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8260B

Percent Solids: 74.2

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108363.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

Initial Weight

Run #1 9.9 g

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	24.7	6.8	1.5	ug/kg	
75-05-8	Acetonitrile	ND	68	16	ug/kg	
107-02-8	Acrolein	ND	34	9.7	ug/kg	
107-13-1	Acrylonitrile	ND	34	0.56	ug/kg	
107-05-1	Allyl chloride	ND	3.4	0.59	ug/kg	
71-43-2	Benzene	ND	0.68	0.23	ug/kg	
100-44-7	Benzyl Chloride	ND	3.4	0.27	ug/kg	
74-97-5	Bromochloromethane	ND	3.4	0.15	ug/kg	
75-27-4	Bromodichloromethane	ND	3.4	0.17	ug/kg	
75-25-2	Bromoform	ND	3.4	0.10	ug/kg	
74-83-9	Bromomethane	ND	3.4	0.27	ug/kg	
78-93-3	2-Butanone (MEK)	1.5	6.8	1.3	ug/kg	J
71-36-3	n-Butyl Alcohol	ND	170	64	ug/kg	
104-51-8	n-Butylbenzene	ND	3.4	0.26	ug/kg	
135-98-8	sec-Butylbenzene	ND	3.4	0.33	ug/kg	
98-06-6	tert-Butylbenzene	ND	3.4	0.32	ug/kg	
75-15-0	Carbon disulfide	0.61	3.4	0.21	ug/kg	J
56-23-5	Carbon tetrachloride	ND	3.4	0.38	ug/kg	
108-90-7	Chlorobenzene	ND	3.4	0.23	ug/kg	
75-00-3	Chloroethane	ND	3.4	0.68	ug/kg	
67-66-3	Chloroform	ND	3.4	0.22	ug/kg	
74-87-3	Chloromethane	ND	3.4	0.11	ug/kg	
126-99-8	Chloroprene	ND	3.4	0.76	ug/kg	
95-49-8	o-Chlorotoluene	ND	3.4	0.19	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.8	0.37	ug/kg	
124-48-1	Dibromochloromethane	ND	3.4	0.075	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.68	0.093	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.4	0.094	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.68	0.23	ug/kg	
75-35-4	1,1-Dichloroethene	ND	3.4	0.45	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	3.4	0.16	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	3.4	0.31	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID:	BBNPP-CW19-C		
Lab Sample ID:	JA58900-12	Date Sampled:	10/13/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8260B	Percent Solids:	74.2
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	3.4	0.088	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.4	0.091	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.4	0.065	ug/kg	
123-91-1	1,4-Dioxane	ND	85	59	ug/kg	
106-89-8	Epichlorohydrin	ND	68	1.2	ug/kg	
141-78-6	Ethyl Acetate	ND	3.4	1.3	ug/kg	
60-29-7	Ethyl Ether	ND	3.4	0.22	ug/kg	
97-63-2	Ethyl methacrylate	ND	6.8	0.088	ug/kg	
100-41-4	Ethylbenzene	ND	0.68	0.25	ug/kg	
110-54-3	Hexane	ND	3.4	0.10	ug/kg	
78-83-1	Isobutyl alcohol	ND	34	8.4	ug/kg	
98-82-8	Isopropylbenzene	ND	3.4	0.35	ug/kg	
79-20-9	Methyl Acetate	ND	3.4	0.56	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.68	0.19	ug/kg	
80-62-6	Methyl methacrylate	ND	6.8	0.78	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	3.4	0.55	ug/kg	
74-95-3	Methylene bromide	ND	3.4	0.12	ug/kg	
75-09-2	Methylene chloride	ND	3.4	0.15	ug/kg	
79-46-9	2-Nitropropane	ND	6.8	0.82	ug/kg	
103-65-1	n-Propylbenzene	ND	3.4	0.17	ug/kg	
100-42-5	Styrene	ND	3.4	0.073	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.4	0.072	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.4	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	3.4	0.099	ug/kg	
108-88-3	Toluene	ND	0.68	0.20	ug/kg	
108-70-3	1,3,5-Trichlorobenzene	ND	3.4		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.4	0.087	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.4	0.13	ug/kg	
79-01-6	Trichloroethene	ND	3.4	0.36	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.4	0.22	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.4	0.29	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.4	0.24	ug/kg	
108-05-4	Vinyl Acetate	ND	6.8	0.71	ug/kg	
75-01-4	Vinyl chloride	ND	3.4	0.12	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		67-127%
17060-07-0	1,2-Dichloroethane-D4	98%		65-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	BBNPP-CW19-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-12	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	74.2
Method:	SW846 8260B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	110%		62-138%

ND = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

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Client Sample ID:	BBNPP-CW19-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-12	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	74.2
Method:	SW846 8270C SW846 3550B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P732.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	760	69	ug/kg	
95-57-8	2-Chlorophenol	ND	190	39	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	61	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	64	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	760	47	ug/kg	
95-48-7	2-Methylphenol	ND	76	44	ug/kg	
	3&4-Methylphenol	ND	76	48	ug/kg	
88-75-5	2-Nitrophenol	ND	190	40	ug/kg	
100-02-7	4-Nitrophenol	ND	380	65	ug/kg	
87-86-5	Pentachlorophenol	ND	380	65	ug/kg	
108-95-2	Phenol	ND	76	40	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	44	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	36	ug/kg	
83-32-9	Acenaphthene	ND	38	11	ug/kg	
208-96-8	Acenaphthylene	ND	38	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.7	ug/kg	
62-53-3	Aniline	ND	76	8.0	ug/kg	
120-12-7	Anthracene	ND	38	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.5	ug/kg	
92-87-5	Benzidine	ND	760	140	ug/kg	
56-55-3	Benzo(a)anthracene	ND	38	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	38	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	38	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	38	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	38	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	76	22	ug/kg	
100-51-6	Benzyl Alcohol	ND	76	16	ug/kg	
92-52-4	1,1'-Biphenyl	ND	76	4.4	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	76	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-CW19-C		
Lab Sample ID:	JA58900-12	Date Sampled:	10/13/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	74.2
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	38	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	76	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	76	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	76	11	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	76	11	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	76	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	76	10	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	76	8.5	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	76	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	76	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	9.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	38	13	ug/kg	
132-64-9	Dibenzofuran	ND	76	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	76	8.5	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	76	19	ug/kg	
84-66-2	Diethyl phthalate	ND	76	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	76	34	ug/kg	
206-44-0	Fluoranthene	ND	38	17	ug/kg	
86-73-7	Fluorene	ND	38	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	76	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	760	39	ug/kg	
67-72-1	Hexachloroethane	ND	190	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38	13	ug/kg	
78-59-1	Isophorone	ND	76	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	76	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	ND	38	10	ug/kg	
98-95-3	Nitrobenzene	ND	76	11	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	76	34	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	76	9.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	ND	38	17	ug/kg	
129-00-0	Pyrene	ND	38	15	ug/kg	
110-86-1	Pyridine	ND	76	15	ug/kg	
91-22-5	Quinoline	ND	190	36	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	76	10	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-CW19-C	
Lab Sample ID: JA58900-12	Date Sampled: 10/13/10
Matrix: SO - Soil	Date Received: 10/14/10
Method: SW846 8270C SW846 3550B	Percent Solids: 74.2
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		30-109%
4165-62-2	Phenol-d5	42%		28-108%
118-79-6	2,4,6-Tribromophenol	59%		28-125%
4165-60-0	Nitrobenzene-d5	41%		28-113%
321-60-8	2-Fluorobiphenyl	47%		38-107%
1718-51-0	Terphenyl-d14	70%		31-116%

ND = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-CW19-C				
Lab Sample ID:	JA58900-12			Date Sampled:	10/13/10
Matrix:	SO - Soil			Date Received:	10/14/10
Method:	SW846 8141B SW846 3550B			Percent Solids:	74.2
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZZ11469.D	1	10/21/10	AFL	10/20/10	F:OP34758	F:GZZ439
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

OP Pesticide List

CAS No.	Compound	Result	RL	MDL	Units	Q
2921-88-2	Chlorpyrifos	ND	90	22	ug/kg	
333-41-5	Diazinon	ND	90	22	ug/kg	
62-73-7	Dichlorvos	ND	90	22	ug/kg	
60-51-5	Dimethoate	ND	90	22	ug/kg	
298-04-4	Disulfoton	ND	90	45	ug/kg	
56-38-2	Ethyl Parathion	ND	90	22	ug/kg	
121-75-5	Malathion	ND	90	22	ug/kg	
298-00-0	Methyl Parathion	ND	90	22	ug/kg	
298-02-2	Phorate	ND	90	22	ug/kg	
299-84-3	Ronnel	ND	90	22	ug/kg	
3689-24-5	Sulfotep	ND	90	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
115-86-6	Triphenyl phosphate	104%		48-133%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

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Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-CW19-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-12	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	74.2
Method:	SW846 8151 SW846 3550B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW95603.D	1	11/03/10	TDR	10/27/10	OP46377	GW3346
Run #2 ^a	WW95644.D	1	11/04/10	TDR	10/30/10	OP46441	GW3348

	Initial Weight	Final Volume
Run #1	35.2 g	10.0 ml
Run #2	35.2 g	10.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	19	6.1	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	3.8	0.74	ug/kg	
93-76-5	2,4,5-T	ND	3.8	1.5	ug/kg	
75-99-0	Dalapon	ND	3.8	2.7	ug/kg	
88-85-7	Dinoseb	ND	19	5.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	83%	82%	13-146%
19719-28-9	2,4-DCAA	81%	39%	13-146%

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

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Client Sample ID:	BBNPP-CW19-C				
Lab Sample ID:	JA58900-12			Date Sampled:	10/13/10
Matrix:	SO - Soil			Date Received:	10/14/10
Method:	SW846 8315 SW846 3510C			Percent Solids:	74.2
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	VU28490.D	1	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1288
Run #2 ^a	VU28530.D	5	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1289

	Initial Weight	Final Volume
Run #1	25.0 g	1.0 ml
Run #2	25.0 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
50-00-0	Formaldehyde	9810 ^b	5400	770	ug/kg	
75-07-0	Acetaldehyde	166	1100	63	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
123-72-8	Butyraldehyde	169%	149%	18-186%
123-72-8	Butyraldehyde	167%	152%	18-186%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

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Client Sample ID:	BBNPP-CW19-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58900-12	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	74.2
Method:	SW846 8081A SW846 3545		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G947.D	1	11/01/10	OPM	10/27/10	OP46373	G4G27
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.6	0.71	ug/kg	
319-84-6	alpha-BHC	ND	1.6	0.49	ug/kg	
319-85-7	beta-BHC	ND	1.6	0.77	ug/kg	
319-86-8	delta-BHC	ND	1.6	0.43	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.6	0.49	ug/kg	
12789-03-6	Chlordane	ND	40	12	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.6	0.53	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.6	0.62	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.53	ug/kg	
72-54-8	4,4'-DDD	ND	1.6	0.68	ug/kg	
72-55-9	4,4'-DDE	ND	1.6	0.55	ug/kg	
50-29-3	4,4'-DDT	ND	1.6	0.66	ug/kg	
72-20-8	Endrin	ND	1.6	0.55	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.6	0.60	ug/kg	
959-98-8	Endosulfan-I	ND	1.6	0.54	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.60	ug/kg	
76-44-8	Heptachlor	ND	1.6	0.71	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.6	0.61	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.71	ug/kg	
8001-35-2	Toxaphene	ND	20	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	54%		23-137%
877-09-8	Tetrachloro-m-xylene	51%		23-137%
2051-24-3	Decachlorobiphenyl	62%		22-160%
2051-24-3	Decachlorobiphenyl	61%		22-160%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

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Client Sample ID:	BBNPP-CW19-C				
Lab Sample ID:	JA58900-12			Date Sampled:	10/13/10
Matrix:	SO - Soil			Date Received:	10/14/10
Method:	SW846 8082 SW846 3545			Percent Solids:	74.2
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF93926.D	1	10/28/10	VDT	10/27/10	OP46374	GEF4072
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	14	ug/kg	
11104-28-2	Aroclor 1221	ND	40	26	ug/kg	
11141-16-5	Aroclor 1232	ND	40	13	ug/kg	
53469-21-9	Aroclor 1242	ND	40	14	ug/kg	
12672-29-6	Aroclor 1248	ND	40	7.9	ug/kg	
11097-69-1	Aroclor 1254	ND	40	10	ug/kg	
11096-82-5	Aroclor 1260	ND	40	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		22-141%
877-09-8	Tetrachloro-m-xylene	69%		22-141%
2051-24-3	Decachlorobiphenyl	102%		18-163%
2051-24-3	Decachlorobiphenyl	113%		18-163%

ND = Not detected MDL - Method Detection Limit
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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID: BBNPP-CW19-C

Lab Sample ID: JA58900-12

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/14/10

Percent Solids: 74.2

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.7	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Arsenic	4.3	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Barium	< 27	27	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Beryllium	0.38	0.27	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Boron	< 13	13	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cadmium	< 0.66	0.66	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Chromium	11.4	1.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cobalt	8.0	6.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Copper	15.8	3.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Lead	11.0	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Manganese	393	2.0	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Mercury	< 0.041	0.041	mg/kg	1	11/07/10	11/08/10 JF	SW846 7471A ²	SW846 7471A ⁴
Nickel	18.9	5.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Selenium	< 2.7	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Silver	< 0.66	0.66	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Thallium	< 1.3	1.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Tin	< 6.6	6.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Vanadium	13.1	6.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Zinc	44.3	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³

(1) Instrument QC Batch: MA25281

(2) Instrument QC Batch: MA25311

(3) Prep QC Batch: MP55449

(4) Prep QC Batch: MP55530

RL = Reporting Limit

Report of Analysis



Client Sample ID: BBNPP-CW19-C

Lab Sample ID: JA58900-12

Matrix: SO - Soil

Date Sampled: 10/13/10

Date Received: 10/14/10

Percent Solids: 74.2

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 27	27	mg/kg	1	11/02/10 01:16	MS	EPA 300/SW846 9056
Chromium, Hexavalent	< 0.54	0.54	mg/kg	1	11/03/10 12:31	RI	SW846 3060A/7196A
Chromium, Trivalent ^a	11.4	1.8	mg/kg	1	11/03/10 12:31	RI	SW846 6010/7196A M
Cyanide	< 0.28	0.28	mg/kg	1	10/25/10 13:41	NP	SW846 9012 M/LACHAT
Nitrogen, Nitrate + Nitrite	< 26	26	mg/kg	1	10/28/10 11:07	NP	EPA 353.2 M/LACHAT
Redox Potential Vs H2	418		mv	1	11/03/10	SS	ASTM D1498-76M
Solids, Percent	74.2		%	1	11/03/10	KH	SM18 2540G
Sulfate	< 130	130	mg/kg	1	11/02/10 01:16	MS	EPA 300/SW846 9056
Total Organic Carbon ^b	11700	1300	mg/kg	1	11/02/10 14:21	SJG	CORP ENG 81M/SW9060M
pH	7.80		su	1	11/03/10	SS	SW846 9045C,D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

(b) Multiple injections indicate possible sample non-homogeneity.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

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Client Sample ID:	T101410	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-13	Date Received:	10/14/10
Matrix:	SO - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108351.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
75-05-8	Acetonitrile	ND	100	24	ug/kg	
107-02-8	Acrolein	ND	50	14	ug/kg	
107-13-1	Acrylonitrile	ND	50	0.82	ug/kg	
107-05-1	Allyl chloride	ND	5.0	0.86	ug/kg	
71-43-2	Benzene	ND	1.0	0.34	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	0.40	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.22	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.26	ug/kg	
75-25-2	Bromoform	ND	5.0	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.40	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/kg	
71-36-3	n-Butyl Alcohol	ND	250	94	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.38	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.49	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.48	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.31	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.56	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.34	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.32	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.17	ug/kg	
126-99-8	Chloroprene	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.29	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.11	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.14	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.24	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.45	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T101410	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-13	Date Received:	10/14/10
Matrix:	SO - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	5.0	0.13	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.096	ug/kg	
123-91-1	1,4-Dioxane	ND	130	86	ug/kg	
106-89-8	Epichlorohydrin	ND	100	1.7	ug/kg	
141-78-6	Ethyl Acetate	ND	5.0	1.9	ug/kg	
60-29-7	Ethyl Ether	ND	5.0	0.33	ug/kg	
97-63-2	Ethyl methacrylate	ND	10	0.13	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.37	ug/kg	
110-54-3	Hexane	ND	5.0	0.15	ug/kg	
78-83-1	Isobutyl alcohol	ND	50	12	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.52	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	0.82	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.28	ug/kg	
80-62-6	Methyl methacrylate	ND	10	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.81	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.18	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.22	ug/kg	
79-46-9	2-Nitropropane	ND	10	1.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.26	ug/kg	
100-42-5	Styrene	ND	5.0	0.11	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.29	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.15	ug/kg	
108-88-3	Toluene	ND	1.0	0.29	ug/kg	
108-70-3	1,3,5-Trichlorobenzene	ND	5.0		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.19	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.53	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.32	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.43	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.36	ug/kg	
108-05-4	Vinyl Acetate	ND	10	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.18	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	0.47	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		67-127%
17060-07-0	1,2-Dichloroethane-D4	99%		65-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID:	T101410		
Lab Sample ID:	JA58900-13	Date Sampled:	10/14/10
Matrix:	SO - Trip Blank Soil	Date Received:	10/14/10
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	109%		74-129%
460-00-4	4-Bromofluorobenzene	110%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-D1-CFD		
Lab Sample ID:	JA58900-14	Date Sampled:	10/14/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	DAI BY GC/MS 8260SIM	Percent Solids:	60.3
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H100601.D	1	10/27/10	KLS	n/a	n/a	EH4374
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.41	0.13	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	54%		50-150%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-D1-CFD

Lab Sample ID: JA58900-14

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8260B

Percent Solids: 60.3

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108364.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	9.7 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	8.5	1.9	ug/kg	
75-05-8	Acetonitrile	ND	85	20	ug/kg	
107-02-8	Acrolein	ND	43	12	ug/kg	
107-13-1	Acrylonitrile	ND	43	0.70	ug/kg	
107-05-1	Allyl chloride	ND	4.3	0.74	ug/kg	
71-43-2	Benzene	ND	0.85	0.29	ug/kg	
100-44-7	Benzyl Chloride	ND	4.3	0.34	ug/kg	
74-97-5	Bromochloromethane	ND	4.3	0.19	ug/kg	
75-27-4	Bromodichloromethane	ND	4.3	0.22	ug/kg	
75-25-2	Bromoform	ND	4.3	0.13	ug/kg	
74-83-9	Bromomethane	ND	4.3	0.35	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8.5	1.7	ug/kg	
71-36-3	n-Butyl Alcohol	ND	210	81	ug/kg	
104-51-8	n-Butylbenzene	ND	4.3	0.32	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.3	0.42	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.3	0.41	ug/kg	
75-15-0	Carbon disulfide	ND	4.3	0.26	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.3	0.47	ug/kg	
108-90-7	Chlorobenzene	ND	4.3	0.29	ug/kg	
75-00-3	Chloroethane	ND	4.3	0.85	ug/kg	
67-66-3	Chloroform	ND	4.3	0.27	ug/kg	
74-87-3	Chloromethane	ND	4.3	0.14	ug/kg	
126-99-8	Chloroprene	ND	4.3	0.95	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.3	0.24	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.5	0.46	ug/kg	
124-48-1	Dibromochloromethane	ND	4.3	0.094	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.85	0.12	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.3	0.12	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.85	0.29	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.3	0.57	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.3	0.20	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.3	0.38	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-D1-CFD		
Lab Sample ID:	JA58900-14	Date Sampled:	10/14/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8260B	Percent Solids:	60.3
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	4.3	0.11	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.3	0.11	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.3	0.082	ug/kg	
123-91-1	1,4-Dioxane	ND	110	74	ug/kg	
106-89-8	Epichlorohydrin	ND	85	1.5	ug/kg	
141-78-6	Ethyl Acetate	ND	4.3	1.6	ug/kg	
60-29-7	Ethyl Ether	ND	4.3	0.28	ug/kg	
97-63-2	Ethyl methacrylate	ND	8.5	0.11	ug/kg	
100-41-4	Ethylbenzene	ND	0.85	0.32	ug/kg	
110-54-3	Hexane	ND	4.3	0.13	ug/kg	
78-83-1	Isobutyl alcohol	ND	43	11	ug/kg	
98-82-8	Isopropylbenzene	ND	4.3	0.44	ug/kg	
79-20-9	Methyl Acetate	ND	4.3	0.70	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.85	0.24	ug/kg	
80-62-6	Methyl methacrylate	ND	8.5	0.97	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.3	0.69	ug/kg	
74-95-3	Methylene bromide	ND	4.3	0.15	ug/kg	
75-09-2	Methylene chloride	ND	4.3	0.19	ug/kg	
79-46-9	2-Nitropropane	ND	8.5	1.0	ug/kg	
103-65-1	n-Propylbenzene	ND	4.3	0.22	ug/kg	
100-42-5	Styrene	ND	4.3	0.091	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.3	0.091	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.3	0.25	ug/kg	
127-18-4	Tetrachloroethene	ND	4.3	0.12	ug/kg	
108-88-3	Toluene	1.1	0.85	0.25	ug/kg	
108-70-3	1,3,5-Trichlorobenzene	ND	4.3		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.3	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.3	0.16	ug/kg	
79-01-6	Trichloroethene	ND	4.3	0.45	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.3	0.27	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.3	0.37	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.3	0.31	ug/kg	
108-05-4	Vinyl Acetate	ND	8.5	0.90	ug/kg	
75-01-4	Vinyl chloride	ND	4.3	0.15	ug/kg	
1330-20-7	Xylene (total)	ND	1.7	0.40	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		67-127%
17060-07-0	1,2-Dichloroethane-D4	101%		65-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: BBNPP-D1-CFD	
Lab Sample ID: JA58900-14	Date Sampled: 10/14/10
Matrix: SO - Soil	Date Received: 10/14/10
Method: SW846 8260B	Percent Solids: 60.3
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	109%		74-129%
460-00-4	4-Bromofluorobenzene	112%		62-138%

ND = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

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Client Sample ID: BBNPP-D1-CFD

Lab Sample ID: JA58900-14

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8270C SW846 3550B

Percent Solids: 60.3

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P733.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	940	86	ug/kg	
95-57-8	2-Chlorophenol	ND	240	48	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	240	47	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	240	76	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	240	79	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	940	58	ug/kg	
95-48-7	2-Methylphenol	ND	94	54	ug/kg	
	3&4-Methylphenol	ND	94	60	ug/kg	
88-75-5	2-Nitrophenol	ND	240	50	ug/kg	
100-02-7	4-Nitrophenol	ND	470	80	ug/kg	
87-86-5	Pentachlorophenol	ND	470	81	ug/kg	
108-95-2	Phenol	ND	94	50	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	240	49	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	240	55	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	240	44	ug/kg	
83-32-9	Acenaphthene	ND	47	14	ug/kg	
208-96-8	Acenaphthylene	ND	47	15	ug/kg	
98-86-2	Acetophenone	ND	240	8.3	ug/kg	
62-53-3	Aniline	ND	94	9.9	ug/kg	
120-12-7	Anthracene	ND	47	17	ug/kg	
1912-24-9	Atrazine	ND	240	9.3	ug/kg	
92-87-5	Benzidine	ND	940	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	47	15	ug/kg	
50-32-8	Benzo(a)pyrene	ND	47	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	47	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	47	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	47	18	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	94	27	ug/kg	
100-51-6	Benzyl Alcohol	ND	94	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	94	5.5	ug/kg	
106-47-8	4-Chloroaniline	ND	240	15	ug/kg	
86-74-8	Carbazole	ND	94	22	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-D1-CFD		
Lab Sample ID:	JA58900-14	Date Sampled:	10/14/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	60.3
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	47	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	94	14	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	94	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	94	14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	94	14	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	94	19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	94	13	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	94	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	94	21	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	94	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	240	12	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	47	16	ug/kg	
132-64-9	Dibenzofuran	ND	94	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	94	10	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	94	23	ug/kg	
84-66-2	Diethyl phthalate	ND	94	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	94	42	ug/kg	
206-44-0	Fluoranthene	ND	47	21	ug/kg	
86-73-7	Fluorene	ND	47	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	94	15	ug/kg	
87-68-3	Hexachlorobutadiene	ND	47	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	940	48	ug/kg	
67-72-1	Hexachloroethane	ND	240	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	47	16	ug/kg	
78-59-1	Isophorone	ND	94	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	94	26	ug/kg	
88-74-4	2-Nitroaniline	ND	240	21	ug/kg	
99-09-2	3-Nitroaniline	ND	240	19	ug/kg	
100-01-6	4-Nitroaniline	ND	240	18	ug/kg	
91-20-3	Naphthalene	ND	47	13	ug/kg	
98-95-3	Nitrobenzene	ND	94	14	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	94	42	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	94	12	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	240	28	ug/kg	
85-01-8	Phenanthrene	ND	47	21	ug/kg	
129-00-0	Pyrene	ND	47	18	ug/kg	
110-86-1	Pyridine	ND	94	19	ug/kg	
91-22-5	Quinoline	ND	240	45	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	240	15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	94	13	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID: BBNPP-D1-CFD	
Lab Sample ID: JA58900-14	Date Sampled: 10/14/10
Matrix: SO - Soil	Date Received: 10/14/10
Method: SW846 8270C SW846 3550B	Percent Solids: 60.3
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		30-109%
4165-62-2	Phenol-d5	40%		28-108%
118-79-6	2,4,6-Tribromophenol	60%		28-125%
4165-60-0	Nitrobenzene-d5	42%		28-113%
321-60-8	2-Fluorobiphenyl	48%		38-107%
1718-51-0	Terphenyl-d14	64%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-D1-CFD

Lab Sample ID: JA58900-14

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8141B SW846 3550B

Percent Solids: 60.3

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZZ11470.D	1	10/21/10	AFL	10/20/10	F:OP34758	F:GZZ439
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

OP Pesticide List

CAS No.	Compound	Result	RL	MDL	Units	Q
2921-88-2	Chlorpyrifos	ND	110	27	ug/kg	
333-41-5	Diazinon	ND	110	27	ug/kg	
62-73-7	Dichlorvos	ND	110	27	ug/kg	
60-51-5	Dimethoate	ND	110	27	ug/kg	
298-04-4	Disulfoton	ND	110	55	ug/kg	
56-38-2	Ethyl Parathion	ND	110	27	ug/kg	
121-75-5	Malathion	ND	110	27	ug/kg	
298-00-0	Methyl Parathion	ND	110	27	ug/kg	
298-02-2	Phorate	ND	110	27	ug/kg	
299-84-3	Ronnel	ND	110	27	ug/kg	
3689-24-5	Sulfotep	ND	110	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
115-86-6	Triphenyl phosphate	115%		48-133%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

ND = Not detected MDL - Method Detection Limit
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 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-D1-CFD				
Lab Sample ID:	JA58900-14			Date Sampled:	10/14/10
Matrix:	SO - Soil			Date Received:	10/14/10
Method:	SW846 8151 SW846 3550B			Percent Solids:	60.3
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW95604.D	1	11/03/10	TDR	10/27/10	OP46377	GWV3346
Run #2 ^a	WW95645.D	1	11/04/10	TDR	10/30/10	OP46441	GWV3348

	Initial Weight	Final Volume
Run #1	35.4 g	10.0 ml
Run #2	35.4 g	10.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	23	7.5	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	4.7	0.90	ug/kg	
93-76-5	2,4,5-T	ND	4.7	1.8	ug/kg	
75-99-0	Dalapon	ND	4.7	3.3	ug/kg	
88-85-7	Dinoseb	ND	23	6.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	66%	71%	13-146%
19719-28-9	2,4-DCAA	49%	38%	13-146%

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
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 E = Indicates value exceeds calibration range

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 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-D1-CFD

Lab Sample ID: JA58900-14

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8315 SW846 3510C

Percent Solids: 60.3

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	VU28491.D	1	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1288
Run #2 ^a	VU28531.D	5	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1289

	Initial Weight	Final Volume
Run #1	25.0 g	1.0 ml
Run #2	25.0 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
50-00-0	Formaldehyde	6790 ^b	6600	940	ug/kg	
75-07-0	Acetaldehyde	101	1300	78	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
123-72-8	Butyraldehyde	157%	153%	18-186%
123-72-8	Butyraldehyde	159%	153%	18-186%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-D1-CFD

Lab Sample ID: JA58900-14

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8081A SW846 3545

Percent Solids: 60.3

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G948.D	1	11/01/10	OPM	10/27/10	OP46373	G4G27
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	2.0	0.87	ug/kg	
319-84-6	alpha-BHC	ND	2.0	0.60	ug/kg	
319-85-7	beta-BHC	ND	2.0	0.95	ug/kg	
319-86-8	delta-BHC	ND	2.0	0.53	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	2.0	0.60	ug/kg	
12789-03-6	Chlordane	ND	49	14	ug/kg	
5103-71-9	alpha-Chlordane	ND	2.0	0.66	ug/kg	
5103-74-2	gamma-Chlordane	ND	2.0	0.76	ug/kg	
60-57-1	Dieldrin	ND	2.0	0.66	ug/kg	
72-54-8	4,4'-DDD	ND	2.0	0.84	ug/kg	
72-55-9	4,4'-DDE	ND	2.0	0.68	ug/kg	
50-29-3	4,4'-DDT	ND	2.0	0.82	ug/kg	
72-20-8	Endrin	ND	2.0	0.68	ug/kg	
1031-07-8	Endosulfan sulfate	ND	2.0	0.74	ug/kg	
959-98-8	Endosulfan-I	ND	2.0	0.67	ug/kg	
33213-65-9	Endosulfan-II	ND	2.0	0.74	ug/kg	
76-44-8	Heptachlor	ND	2.0	0.88	ug/kg	
1024-57-3	Heptachlor epoxide	ND	2.0	0.75	ug/kg	
72-43-5	Methoxychlor	ND	2.0	0.87	ug/kg	
8001-35-2	Toxaphene	ND	24	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		23-137%
877-09-8	Tetrachloro-m-xylene	78%		23-137%
2051-24-3	Decachlorobiphenyl	84%		22-160%
2051-24-3	Decachlorobiphenyl	83%		22-160%

ND = Not detected MDL - Method Detection Limit

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J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	BBNPP-D1-CFD	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-14	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	60.3
Method:	SW846 8082 SW846 3545		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF93927.D	1	10/28/10	VDT	10/27/10	OP46374	GEF4072
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	49	17	ug/kg	
11104-28-2	Aroclor 1221	ND	49	32	ug/kg	
11141-16-5	Aroclor 1232	ND	49	16	ug/kg	
53469-21-9	Aroclor 1242	ND	49	18	ug/kg	
12672-29-6	Aroclor 1248	ND	49	9.7	ug/kg	
11097-69-1	Aroclor 1254	ND	49	12	ug/kg	
11096-82-5	Aroclor 1260	ND	49	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		22-141%
877-09-8	Tetrachloro-m-xylene	103%		22-141%
2051-24-3	Decachlorobiphenyl	119%		18-163%
2051-24-3	Decachlorobiphenyl	132%		18-163%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-D1-CFD

Lab Sample ID: JA58900-14

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Percent Solids: 60.3

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 3.3	3.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Arsenic	6.2	3.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Barium	59.0	33	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Beryllium	0.69	0.33	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Boron	< 16	16	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cadmium	< 0.82	0.82	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Chromium	19.3	1.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cobalt	12.8	8.2	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Copper	21.8	4.1	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Lead	16.4	3.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Manganese	617	2.5	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Mercury	< 0.052	0.052	mg/kg	1	11/07/10	11/08/10 JF	SW846 7471A ²	SW846 7471A ⁴
Nickel	30.6	6.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Selenium	< 3.3	3.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Silver	< 0.82	0.82	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Thallium	< 1.6	1.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Tin	< 8.2	8.2	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Vanadium	20.8	8.2	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Zinc	159	3.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³

(1) Instrument QC Batch: MA25281

(2) Instrument QC Batch: MA25311

(3) Prep QC Batch: MP55449

(4) Prep QC Batch: MP55530

RL = Reporting Limit

Report of Analysis

Client Sample ID: BBNPP-D1-CFD

Lab Sample ID: JA58900-14

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Percent Solids: 60.3

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 33	33	mg/kg	1	11/02/10 01:40	MS	EPA 300/SW846 9056
Chromium, Hexavalent	< 0.66	0.66	mg/kg	1	11/03/10 12:31	RI	SW846 3060A/7196A
Chromium, Trivalent ^a	19.3	2.3	mg/kg	1	11/03/10 12:31	RI	SW846 6010/7196A M
Cyanide	< 0.40	0.40	mg/kg	1	10/25/10 14:37	NP	SW846 9012 M/LACHAT
Nitrogen, Nitrate + Nitrite	< 31	31	mg/kg	1	10/28/10 11:08	NP	EPA 353.2 M/LACHAT
Redox Potential Vs H2	412		mv	1	11/03/10	SS	ASTM D1498-76M
Solids, Percent	60.3		%	1	11/03/10	KH	SM18 2540G
Sulfate	< 170	170	mg/kg	1	11/02/10 01:40	MS	EPA 300/SW846 9056
Total Organic Carbon ^b	9910	1700	mg/kg	1	11/02/10 14:44	SJG	CORP ENG 81M/SW9060M
pH	7.65		su	1	11/03/10	SS	SW846 9045C,D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

(b) Multiple injections indicate possible sample non-homogeneity.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Page 1 of 3

3.15

3

Client Sample ID: TRIP BLANK

Lab Sample ID: JA58900-15

Date Sampled: 10/14/10

Matrix: AQ - Trip Blank Soil

Date Received: 10/14/10

Method: SW846 8260B

Percent Solids: n/a

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V108525.D	1	10/21/10	JLI	n/a	n/a	VV4578
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.9	ug/l	
75-05-8	Acetonitrile	ND	100	31	ug/l	
107-02-8	Acrolein	ND	50	23	ug/l	
107-13-1	Acrylonitrile	ND	50	3.6	ug/l	
107-05-1	Allyl chloride	ND	5.0	1.6	ug/l	
71-43-2	Benzene	ND	1.0	0.23	ug/l	
100-44-7	Benzyl Chloride	ND	5.0	0.56	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.33	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	4.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.30	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	110	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.47	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.21	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.74	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
126-99-8	Chloroprene	ND	5.0	0.93	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.31	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JA58900-15	Date Sampled:	10/14/10
Matrix:	AQ - Trip Blank Soil	Date Received:	10/14/10
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	94	ug/l	
106-89-8	Epichlorohydrin	ND	100	6.1	ug/l	
141-78-6	Ethyl Acetate	ND	5.0	2.0	ug/l	
60-29-7	Ethyl Ether	ND	5.0	0.72	ug/l	
97-63-2	Ethyl methacrylate	ND	10	0.48	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
110-54-3	Hexane	ND	5.0	0.54	ug/l	
78-83-1	Isobutyl alcohol	ND	50	20	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.57	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
80-62-6	Methyl methacrylate	ND	10	1.3	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.86	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.30	ug/l	
79-46-9	2-Nitropropane	ND	10	1.6	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.58	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
108-70-3	1,3,5-Trichlorobenzene	ND	5.0		ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.24	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.49	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.28	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-05-4	Vinyl Acetate	ND	10	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	95%		64-135%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3.15



Client Sample ID:	TRIP BLANK	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-15	Date Received:	10/14/10
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	107%		76-117%
460-00-4	4-Bromofluorobenzene	91%		72-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:


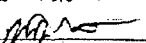
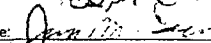
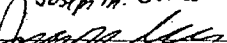

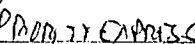

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ENSR

CHAIN OF CUSTODY RECORD

JA58900

Page 2 of 2

Client/Project Name: UNE T BONPP		Project Location: Susquehanna River		Analysis Requested		Container Type P - Plastic A - Amber Glass G - Clear Glass V - VOA Vial O - Other E - Encase		Preservation 1 - HCl, 4" 2 - H2SO4, 4" 3 - HNO3, 4" 4 - NaOH, 4" 5 - NaOH/ZnAc, 4" 6 - Na2S2O3, 4" 7 - 4"				
Project Number: 601 60208		Field Logbook No.: BONPP-SP-1										
Sampler (Print Name)/(Affiliation): Mike Hauser / AECOM		Chain of Custody Tape Nos.: 776774, 778262, 778266										
Signature: 		Send Results/Report to: DION LEWIS		TAT: Normal								
Field Sample No./Identification	Date	Time	COM P	GRA B	Sample Container (Size/Mark)	Matrix	Preserv.	Field Filtered	Lab I.D.	Remarks		
BONPP-R-LMS	10/14/10	12:20	X		15.6L V13	SD	MOH ICE	N				
BONPP-R-C-MSD	10/14/10	12:20	X		1	SD	MOH ICE					
BONPP-DI-EFD	10/14/10	12:45	X		1	SD	MOH ICE					
Top Blank	10-7-10	14:00			6 x 40ml	STB	None					
MA												
Relinquished by: (Print Name)/(Affiliation) Mike Hauser / AECOM			Date: 10/14/10		Received by: (Print Name)/(Affiliation) Joseph M. Gurew			Date: 10/15/10			Analytical Laboratory (Destination): * ADDED 10-15-10 TH	
Signature: 			Time: 16:30		Signature: 			Time: 16:30				
Relinquished by: (Print Name)/(Affiliation) Joseph M. Gurew			Date: 10/15/10		Received by: (Print Name)/(Affiliation) Alberto Acevedo			Date: 10-15-10			Rec'd at Exton Service Center 10/14/10 @ 1630	
Signature: 			Time: 9:40		Signature: 			Time: 11:15				
Relinquished by: (Print Name)/(Affiliation) PPR 000 77 EXPRESS			Date: 10-15-10		Received by: (Print Name)/(Affiliation) PPR 000 77 EXPRESS			Date: 10-15-10			Sample Shipped Via: UPS FedEx Courier Other	
Signature: 			Time: 11:15		Signature: 			Time: 11:15			Temp blank Yes No	

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White: Original (to Lab)

Yellow: Lab

Pink: Sampler

Serial No. 01926

JA58900: Chain of Custody

Page 2 of 12

SAMPLE #	MEOH VIAL	D.I. VIAL	D.I. VIAL
1	85	331	338
2	96	345	346
3	77 79 80	353 354 357	358 355 356
4	93	341	342
5			
6			
7	101	333	334
8	98	347	348
9	89	335	336
10	88	319	320
11	95	325	326 326
12	78	343	344
13		349	350
14	94	359	360
15			
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JA58900: Chain of Custody

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- ☐ Immediate Action Required
Scanned as Problem Note
☐ Action Required at Login
Not Scanned

Issue Date: _____

Sample Receipt Issues Summary

To: Client Services / Login

From: Sample Management

Sample Management Technicians Initials: _____

Client: _____ Project: _____ Job #: JA 58900
notes

- | | |
|---|---|
| <input type="checkbox"/> Trip Blank Not Received | <input type="checkbox"/> Times on Chain Don't Match Label |
| <input type="checkbox"/> Trip Blank Not on Chain of Custody | <input type="checkbox"/> ID's on Chain Don't Match Label |
| <input type="checkbox"/> Temperature Criteria (0-6 C) Not Met | <input type="checkbox"/> Sample Labels Not Present on all Bottles |
| <input type="checkbox"/> Ice Present | <input type="checkbox"/> Analysis Requested is Unclear or Missing |
| <input type="checkbox"/> No Ice Present | <input type="checkbox"/> VOC Vials Have Headspace (Macro-bubbles) |
| <input type="checkbox"/> Frozen | <input type="checkbox"/> Bottles Rcv'd, Analysis Not Requested on COC |
| <input type="checkbox"/> Sample Received Out of Holding Time | <input type="checkbox"/> No Bottles Received for Analysis Requested |
| <input type="checkbox"/> Encore received outside of Holding Time | <input type="checkbox"/> Unclear Filtering Instructions |
| <input type="checkbox"/> Soil VOA vials in DI water to be frozen
rec'd outside of 48 hr Holding Time | <input type="checkbox"/> Unclear Compositing Instructions |
| <input type="checkbox"/> Sample Received Broken | <input type="checkbox"/> % Solids Jar Not Received |
| <input type="checkbox"/> Insufficient Volume For Analysis | <input type="checkbox"/> No Chain of Custody Received |
| <input type="checkbox"/> Sample Received Improperly Preserved | <input type="checkbox"/> Sample Dates or Times Unclear or Missing |

Description of Problem:

EB water was rec'd in HCL vials
PB water was rec'd in NYP vials, HCL water in vials, bag they came in said ASD HCL

For water samples took 1 of 6 EXT LITERS AND DESIGNATED IT AS CR3 - brought to lab 13:30

JA58900: Chain of Custody

Page 4 of 12

Email(s) page 1+2 - priority driver DIDN'T HAVE SECOND PAGE *

Form: SM65-02
Rev. Date: 11/06/08



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA58900 Client: AECOM-ENSR Immediate Client Services Action Required: Yes
Date / Time Received: 10/15/2010 11:15 Delivery Method: PRIORITY Client Service Action Required at Login: No
Project: UNE BBNPP No. Coolers: 7 Airbill #'s: 1505 5590

Cooler Security

Y or N

1. Custody Seals Present: ☐ ☒
2. Custody Seals Intact: ☐ ☒

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: Infrared gun
3. Cooler media: Ice (bag)

Quality Control Preservation

Y N N/A

1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☒ ☐ ☐

Comments

- 1) -5, -6 DID NOT RECEIVE OFFICIAL XCR VOLUME. USED AN EXTRACTION VOLUME FOR CR3
2) -5 RECEIVED ONLY HCL VO'S - NO ETHGLYCOL VOLUME
3) -6 RECEIVED ONLY N/P VO'S - NO VOC VOLUME
4) PRIORITY DRIVER DID NOT HAVE PAGE 2, CHAIN WAS EMAILED TO US AND PRINTED.
5) Revised 10/18/10 No NO32 volumes rec'd for samples -5 & -6
6) Revised--10-20-10--NO CN volumes rec'd for samples -5 and-6

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☐ ☒
3. Condition of sample: Intact

Sample Integrity - Instructions

Y N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

JA58900: Chain of Custody

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Sample Receipt Summary - Problem Resolution

Accutest Job Number: JA58900

CSR: Tammy McCloskey

Response Date 10/21/2010

Response: 1) Dion Lewis notified, proceed with analysis

2) Dion Lewis notified 10/15/10 that we are unable to run ethylene glycol on -5

3) Dion Lewis notified 10/15/10 that all VO volumes received unpreserved, note at login & proceed with analysis.

4) Chain received from Priority

5) Per Dion Lewis on 10/18/10 NO32 analysis is not required on these 2 samples

6) Per Dion Lewis on 10/20/10 Cn analysis is not required on these 2 samples

Accutest Laboratories
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F: 732.329.3499

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JA58900: Chain of Custody

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Job Change Order: JA58900_11/4/2010

Requested Date:	11/4/2010	Received Date:	10/14/2010
Account Name:	AECOM, INC.	Due Date:	11/4/2010
Project Description:	Bell Bend Nuclear Power Plant, Salem Township,	Deliverable:	FULT1
CSR:	TM	TAT (Days):	14

Sample #: JA58900-1 to 4, 7 to 12, 14, 3D, 3S
Change: relog for XXCRAR

Above Changes

Dion Lewis/Andrea Mischel

Date: 11/4/2010**JA58900: Chain of Custody**
Page 7 of 12

o Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Job Change Order: JA58900_11/8/2010

Requested Date:	11/8/2010	Received Date:	10/14/2010
Account Name:	AECOM, INC.	Due Date:	11/4/2010
Project Description:	Bell Bend Nuclear Power Plant, Salem Township,	Deliverable:	FULT1
CSR:	TM	TAT (Days):	21

Sample #:
JA58900-all "R"

Change: please move all "R" samples for XXCRAR to an "R" job

Above Changes

Dion Lewis

Date: 11/8/2010

JA58900: Chain of Custody
Page 8 of 12

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Job Change Order: JA58900R_11/18/2010

Requested Date:	11/18/2010	Received Date:	10/14/2010
Account Name:	AECOM, INC.	Due Date:	11/18/2010
Project Description:	Bell Bend Nuclear Power Plant, Salem Township,	Deliverable:	FULT1
CSR:	TM	TAT (Days):	14

Sample #:
JA58900R-3R

Change: please relog on a separate job for FE2/7, SULFS, TOC

BBNPP-R-C

Above Changes

Andrea Mischel

Date: 11/18/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

JA58900: Chain of Custody
Page 9 of 12

Job Change Order: JA58900_12/20/2010

Requested	12/20/2010	Received Date:	10/14/2010
Account Name:	AECOM, INC.	Due Date:	12/20/2010
Project	Bell Bend Nuclear Power Plant, Salem Township,	Deliverable:	FULT1
CSR:	MJ	TAT (Days):	14
Sample #: JA58900-All	Change:	Re-log/retrieve for ABR8270SL, VR8260SL, PR8081CHL, and H8151DALAPON, make DD 12/21	

4.1
4

JA58900: Chain of Custody

Page 10 of 12

Above Changes Per: Tammy

Date: 12/20/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Job Change Order:JA58900^A_12/20/2010

Requested	12/20/2010	Received Date:	10/14/2010
Account Name:	AECOM, INC.	Due Date:	12/20/2010
Project	Bell Bend Nuclear Power Plant, Salem Township,	Deliverable:	FULT1
CSR:	MJ	TAT (Days):	14

Sample #:
JA58900-All

Change: Relog/retrieve for ABR8270SL, VR8260SL,
PR8081CHL, and H8151DALAPON, make DD 12/21

4.1
4

Above Changes Per: Tammy

Date: 12/20/2010

JA58900: Chain of Custody
Page 11 of 12

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Job Change Order: JA58900_12/16/2010

Requested Date:	12/16/2010	Received Date:	10/14/2010
Account Name:	AECOM, INC.	Due Date:	11/4/2010
Project Description:	Bell Bend Nuclear Power Plant, Salem Township,	Deliverable:	FULT1
CSR:	TM	TAT (Days):	2

Sample #: JA58900-1 through 12, 14, 3D, 3S
Change: relog/retrieve on original report for TL

4.1

4

Above Changes

Andrea Mischel

Date: 12/16/2010

JA58900: Chain of Custody

Page 12 of 12

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58900

Bell Bend Nuclear Power Plant, Salem Township, PA
 Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA58900-1 Collected: 14-OCT-10 12:30 By: MH Received: 14-OCT-10 By: TH BBNPP-D2						
JA58900-1	SW846 8141B	21-OCT-10 13:32	AFL	20-OCT-10	AFL	P8141SL
JA58900-1	SW846 8315	22-OCT-10 03:17	AMA	19-OCT-10		LC+ ACHD
JA58900-1	SW846 8315	22-OCT-10 18:30	AMA	19-OCT-10		LC8315FORM
JA58900-1	SW846 9012 M/LACHAT	25-OCT-10 14:30	NP	21-OCT-10	BC	CN
JA58900-1	SW846 8260B	26-OCT-10 22:24	JTP			V8260AP9SL
JA58900-1	DAI BY GC/MS 8260S	27-OCT-10 15:13	KLS			
JA58900-1	DAI BY GC/MS 8260S	27-OCT-10 18:05	KLS			D8260SIMEGLY
JA58900-1	EPA 353.2 M/LACHAT	28-OCT-10 10:58	NP	27-OCT-10	AL	NO32
JA58900-1	SW846 8082	28-OCT-10 16:15	VDT	27-OCT-10	GAD	P8082PCBAO
JA58900-1	SW846 8081A	01-NOV-10 17:23	OPM	27-OCT-10	GAD	P8081PESTTCL
JA58900-1	EPA 300/SW846 9056	01-NOV-10 21:17	MS	01-NOV-10	MS	CHL,SO4
JA58900-1	CORP ENG 81M/SW9060M	02-NOV-10 11:16	SJG	02-NOV-10	SJG	TOC
JA58900-1	SW846 8151	02-NOV-10 15:50	TDR	27-OCT-10	SK	H8151STD
JA58900-1	SW846 8270C	02-NOV-10 16:32	KLS	25-OCT-10	SK	AB8270PPTCL11
JA58900-1	SW846 6010B	02-NOV-10 22:32	VC	02-NOV-10	VK	AG,AS,B,BA,BE,CD,CO,CR,CU, MN,NI,PB,SB,SE,SN,V,ZN
JA58900-1	ASTM D1498-76M	03-NOV-10	SS			EH
JA58900-1	SM18 2540G	03-NOV-10	KH			SOL104
JA58900-1	SW846 9045C,D	03-NOV-10	SS			PH
JA58900-1	SW846 3060A/7196A	03-NOV-10 12:31	RI	28-OCT-10	RI	XCRA
JA58900-1	SW846 6010/7196A M	03-NOV-10 12:31	RI			CR3
JA58900-1	SW846 8151	04-NOV-10 01:52	TDR	30-OCT-10	GGP	H8151STD
JA58900-1	SW846 7471A	08-NOV-10 12:22	JF	07-NOV-10	JF	HG
JA58900-2 Collected: 14-OCT-10 12:45 By: MH Received: 14-OCT-10 By: TH BBNPP-D1-C						
JA58900-2	SW846 8141B	21-OCT-10 14:01	AFL	20-OCT-10	AFL	P8141SL
JA58900-2	SW846 8315	22-OCT-10 03:38	AMA	19-OCT-10		LC+ ACHD
JA58900-2	SW846 8315	22-OCT-10 18:51	AMA	19-OCT-10		LC8315FORM
JA58900-2	SW846 9012 M/LACHAT	25-OCT-10 14:32	NP	21-OCT-10	BC	CN
JA58900-2	SW846 8260B	26-OCT-10 22:53	JTP			V8260AP9SL
JA58900-2	DAI BY GC/MS 8260S	27-OCT-10 15:28	KLS			D8260SIMEGLY
JA58900-2	EPA 353.2 M/LACHAT	28-OCT-10 10:59	NP	27-OCT-10	AL	NO32
JA58900-2	SW846 8082	28-OCT-10 17:45	VDT	27-OCT-10	GAD	P8082PCBAO
JA58900-2	SW846 8081A	01-NOV-10 17:37	OPM	27-OCT-10	GAD	P8081PESTTCL
JA58900-2	EPA 300/SW846 9056	01-NOV-10 21:41	MS	01-NOV-10	MS	CHL,SO4

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58900

Bell Bend Nuclear Power Plant, Salem Township, PA
 Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA58900-2	CORP ENG 81M/SW9060M	02-NOV-10 11:28	SJG	02-NOV-10	SJG	TOC
JA58900-2	SW846 8151	02-NOV-10 16:25	TDR	27-OCT-10	SK	H8151STD
JA58900-2	SW846 8270C	02-NOV-10 19:30	KLS	25-OCT-10	SK	AB8270PPTCL11
JA58900-2	SW846 6010B	02-NOV-10 22:38	VC	02-NOV-10	VK	AG,AS,B,BA,BE,CD,CO,CR,CU, MN,NI,PB,SB,SE,SN,V,ZN
JA58900-2	ASTM D1498-76M	03-NOV-10	SS			EH
JA58900-2	SW846 9045C,D	03-NOV-10	SS			PH
JA58900-2	SM18 2540G	03-NOV-10	KH			SOL104
JA58900-2	SW846 3060A/7196A	03-NOV-10 12:31	RI	28-OCT-10	RI	XCRA
JA58900-2	SW846 6010/7196A M	03-NOV-10 12:31	RI			CR3
JA58900-2	SW846 8151	04-NOV-10 02:14	TDR	30-OCT-10	GGP	H8151STD
JA58900-2	SW846 7471A	08-NOV-10 12:21	JF	07-NOV-10	JF	HG
JA58900-3 Collected: 14-OCT-10 12:20 By: MH Received: 14-OCT-10 By: TH						
BBNPP-R-C						
JA58900-3	SW846 8141B	21-OCT-10 14:31	AFL	20-OCT-10	AFL	P8141SL
JA58900-3	SW846 8315	22-OCT-10 03:59	AMA	19-OCT-10		LC+ ACHD
JA58900-3	SW846 8315	22-OCT-10 19:12	AMA	19-OCT-10		LC8315FORM
JA58900-3	SW846 9012 M/LACHAT	25-OCT-10 14:35	NP	21-OCT-10	BC	CN
JA58900-3	SW846 8260B	26-OCT-10 15:39	JTP			V8260AP9SL
JA58900-3	SW846 8260B	26-OCT-10 18:59	JTP			V8260AP9SL
JA58900-3	DAI BY GC/MS 8260SDM	26-OCT-10 20:00	KLS			D8260SIMEGLY
JA58900-3	EPA 353.2 M/LACHAT	28-OCT-10 11:00	NP	27-OCT-10	AL	NO32
JA58900-3	SW846 8082	28-OCT-10 15:58	VDT	27-OCT-10	GAD	P8082PCBAO
JA58900-3	SW846 8151	28-OCT-10 21:05	TDR	27-OCT-10	SK	H8151STD
JA58900-3	SW846 8081A	01-NOV-10 14:58	OPM	27-OCT-10	GAD	P8081PESTTCL
JA58900-3	SW846 8270C	01-NOV-10 16:47	KLS	25-OCT-10	SK	AB8270PPTCL11
JA58900-3	EPA 300/SW846 9056	01-NOV-10 20:53	MS	01-NOV-10	MS	CHL,SO4
JA58900-3	CORP ENG 81M/SW9060M	02-NOV-10 10:45	SJG	02-NOV-10	SJG	TOC
JA58900-3	SW846 6010B	02-NOV-10 22:20	VC	02-NOV-10	VK	AG,AS,B,BA,BE,CD,CO,CR,CU, MN,NI,PB,SB,SE,SN,V,ZN
JA58900-3	ASTM D1498-76M	03-NOV-10	SS			EH
JA58900-3	SM18 2540G	03-NOV-10	KH			SOL104
JA58900-3	SW846 9045C,D	03-NOV-10	SS			PH
JA58900-3	SW846 3060A/7196A	03-NOV-10 10:56	RI	28-OCT-10	RI	XCRA
JA58900-3	SW846 6010/7196A M	03-NOV-10 10:56	RI			CR3
JA58900-3	SW846 8151	04-NOV-10 11:02	TDR	30-OCT-10	GGP	H8151STD
JA58900-3	SW846 7471A	08-NOV-10 12:20	JF	07-NOV-10	JF	HG

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58900

Bell Bend Nuclear Power Plant, Salem Township, PA
Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
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JA58900-4	Collected: 14-OCT-10 12:45	By: MH	Received: 14-OCT-10	By: TH		
BBNPP-CW22-C						

JA58900-4	SW846 8141B	21-OCT-10 16:58	AFL	20-OCT-10	AFL	P8141SL
JA58900-4	SW846 8315	22-OCT-10 04:20	AMA	19-OCT-10		LC+ ACHD
JA58900-4	SW846 8315	22-OCT-10 19:33	AMA	19-OCT-10		LC8315FORM
JA58900-4	SW846 9012 M/LACHA	25-OCT-10 14:36	NP	21-OCT-10	BC	CN
JA58900-4	SW846 8260B	26-OCT-10 23:22	JTP			V8260AP9SL
JA58900-4	DAI BY GC/MS 8260SM	27-OCT-10 15:45	KLS			D8260SIMEGLY
JA58900-4	EPA 353.2 M/LACHA	28-OCT-10 11:01	NP	27-OCT-10	AL	NO32
JA58900-4	SW846 8082	28-OCT-10 18:02	VDT	27-OCT-10	GAD	P8082PCBAO
JA58900-4	SW846 8081A	01-NOV-10 17:50	OPM	27-OCT-10	GAD	P8081PESTTCL
JA58900-4	EPA 300/SW846 9056	01-NOV-10 22:05	MS	01-NOV-10	MS	CHL,SO4
JA58900-4	CORP ENG 81M/SW9060M	02-NOV-10 12:00	SJG	02-NOV-10	SJG	TOC
JA58900-4	SW846 8270C	02-NOV-10 19:59	KLS	25-OCT-10	SK	AB8270PPTCL11
JA58900-4	SW846 6010B	02-NOV-10 22:44	VC	02-NOV-10	VK	AG,AS,B,BA,BE,CD,CO,CR,CU, MN,NI,PB,SB,SE,SN,V,ZN
JA58900-4	ASTM D1498-76M	03-NOV-10	SS			EH
JA58900-4	SW846 9045C,D	03-NOV-10	SS			PH
JA58900-4	SM18 2540G	03-NOV-10	KH			SOL104
JA58900-4	SW846 3060A/7196A	03-NOV-10 12:31	RI	28-OCT-10	RI	XCRA
JA58900-4	SW846 6010/7196A M	03-NOV-10 12:31	RI			CR3
JA58900-4	SW846 8151	03-NOV-10 12:57	TDR	27-OCT-10	SK	H8151STD
JA58900-4	SW846 8151	04-NOV-10 11:32	TDR	30-OCT-10	GGP	H8151STD
JA58900-4	SW846 7471A	08-NOV-10 12:23	JF	07-NOV-10	JF	HG

JA58900-5	Collected: 14-OCT-10 15:01	By: MH	Received: 14-OCT-10	By: TH		
BBNPP-C-EB						

JA58900-5	SW846 7196A	15-OCT-10 14:13	AD			XCR
JA58900-5	SW846 8315	19-OCT-10 18:05	AMA	16-OCT-10		LC8315FORM
JA58900-5	DAI BY GC/MS 8260SM	20-OCT-10 19:02	KLS			D8260SIMEGLY
JA58900-5	SW846 8270C	21-OCT-10 19:11	NAP	21-OCT-10	EA	AB8270PPTCL11
JA58900-5	SW846 8260B	21-OCT-10 20:11	JLI			V8260AP9SL
JA58900-5	SW846 8141B	21-OCT-10 22:21	AFL	20-OCT-10	AFL	P8141SL
JA58900-5	SW846 8151	22-OCT-10 06:17	TDR	20-OCT-10	GGP	H8151STD
JA58900-5	SW846 8082	22-OCT-10 16:08	TDR	20-OCT-10	AW	P8082PCBAO
JA58900-5	SW846 8081A	26-OCT-10 20:37	OPM	20-OCT-10	AW	P8081PESTTCL
JA58900-5	EPA 300/SW846 9056	29-OCT-10 18:45	MS	29-OCT-10	MS	CHL,SO4

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58900

Bell Bend Nuclear Power Plant, Salem Township, PA
 Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA58900-5	SM20 5310B, 9060 M	30-OCT-10 16:12	SJG	30-OCT-10	SJG	TOC
JA58900-5	SW846 6010B	02-NOV-10 14:28	ND	01-NOV-10	BM	AG,AS,B,BA,BE,CD,CO,CR,CU, MN,NI,PB,SB,SE,SN,V,ZN
JA58900-5	SW846 6010/7196A M	02-NOV-10 14:28	ND			CR3
JA58900-5	SW846 7470A	05-NOV-10 17:13	JW	05-NOV-10	JW	HG
JA58900-6	Collected: 14-OCT-10 15:35 By: MH Received: 14-OCT-10 By: TH					
BBNPP-PB						
JA58900-6	SW846 7196A	15-OCT-10 14:13	AD			XCR
JA58900-6	SW846 8315	19-OCT-10 18:26	AMA	16-OCT-10		LC8315FORM
JA58900-6	DAI BY GC/MS 8260SIM	20-OCT-10 18:47	KLS			D8260SIMEGLY
JA58900-6	SW846 8270C	21-OCT-10 19:35	NAP	21-OCT-10	EA	AB8270PPTCL11
JA58900-6	SW846 8260B	21-OCT-10 19:40	JLI			V8260AP9SL
JA58900-6	SW846 8141B	21-OCT-10 22:50	AFL	20-OCT-10	AFL	P8141SL
JA58900-6	SW846 8151	22-OCT-10 03:41	TDR	20-OCT-10	GGP	H8151STD
JA58900-6	SW846 8082	22-OCT-10 16:23	TDR	20-OCT-10	AW	P8082PCBAO
JA58900-6	SW846 8081A	26-OCT-10 20:53	OPM	20-OCT-10	AW	P8081PESTTCL
JA58900-6	EPA 300/SW846 9056	29-OCT-10 19:07	MS	29-OCT-10	MS	CHL,SO4
JA58900-6	SM20 5310B, 9060 M	30-OCT-10 16:26	SJG	30-OCT-10	SJG	TOC
JA58900-6	SW846 6010B	02-NOV-10 14:34	ND	01-NOV-10	BM	AG,AS,B,BA,BE,CD,CO,CR,CU, MN,NI,PB,SB,SE,SN,V,ZN
JA58900-6	SW846 6010/7196A M	02-NOV-10 14:34	ND			CR3
JA58900-6	SW846 7470A	05-NOV-10 17:15	JW	05-NOV-10	JW	HG
JA58900-7	Collected: 13-OCT-10 14:17 By: MH Received: 14-OCT-10 By: TH					
BBNPP-CW4-C						
JA58900-7	SW846 9012 M/LACHAT	20-OCT-10 16:33	VA	19-OCT-10	BC	CN
JA58900-7	SW846 8141B	21-OCT-10 17:27	AFL	20-OCT-10	AFL	P8141SL
JA58900-7	SW846 8315	22-OCT-10 04:41	AMA	19-OCT-10		LC+ ACHD
JA58900-7	SW846 8315	22-OCT-10 19:54	AMA	19-OCT-10		LC8315FORM
JA58900-7	SW846 8260B	27-OCT-10 17:19	JTP			V8260AP9SL
JA58900-7	DAI BY GC/MS 8260SIM	27-OCT-10 18:36	KLS			D8260SIMEGLY
JA58900-7	EPA 353.2 M/LACHAT	28-OCT-10 11:01	NP	27-OCT-10	AL	NO32
JA58900-7	SW846 8082	28-OCT-10 18:20	VDT	27-OCT-10	GAD	P8082PCBAO
JA58900-7	SW846 8151	28-OCT-10 21:36	TDR	27-OCT-10	SK	H8151STD
JA58900-7	SW846 8081A	01-NOV-10 18:04	OPM	27-OCT-10	GAD	P8081PESTTCL
JA58900-7	EPA 300/SW846 9056	01-NOV-10 22:29	MS	01-NOV-10	MS	CHL,SO4
JA58900-7	CORP ENG 81M/SW9060M	02-NOV-10 12:14	SJG	02-NOV-10	SJG	TOC

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58900

Bell Bend Nuclear Power Plant, Salem Township, PA
 Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA58900-7	SW846 8270C	02-NOV-10 17:02	KLS	25-OCT-10	SK	AB8270PPTCL11
JA58900-7	SW846 6010B	02-NOV-10 22:50	VC	02-NOV-10	VK	AG,AS,B,BA,BE,CD,CO,CR,CU, MN,NI,PB,SB,SE,SN,V,ZN
JA58900-7	ASTM D1498-76M	03-NOV-10	SS			EH
JA58900-7	SM18 2540G	03-NOV-10	KH			SOL104
JA58900-7	SW846 9045C,D	03-NOV-10	SS			PH
JA58900-7	SW846 3060A/7196A	03-NOV-10 12:31	RI	28-OCT-10	RI	XCRA
JA58900-7	SW846 6010/7196A M	03-NOV-10 12:31	RI			CR3
JA58900-7	SW846 8151	04-NOV-10 02:48	TDR	30-OCT-10	GGP	H8151STD
JA58900-7	SW846 7471A	08-NOV-10 12:25	JF	07-NOV-10	JF	HG
JA58900-8 Collected: 13-OCT-10 15:10 By: MH Received: 14-OCT-10 By: TH BBNPP-CW7-C						
JA58900-8	SW846 9012 M/LACHAT	20-OCT-10 16:34	VA	19-OCT-10	BC	CN
JA58900-8	SW846 8141B	21-OCT-10 17:57	AFL	20-OCT-10	AFL	P8141SL
JA58900-8	SW846 8315	22-OCT-10 05:02	AMA	19-OCT-10		LC+ ACHD
JA58900-8	SW846 8315	22-OCT-10 20:15	AMA	19-OCT-10		LC8315FORM
JA58900-8	SW846 8260B	26-OCT-10 19:28	JTP			V8260AP9SL
JA58900-8	DAI BY GC/MS 8260SIM	27-OCT-10 18:43	KLS			D8260SIMEGLY
JA58900-8	EPA 353.2 M/LACHAT	28-OCT-10 11:02	NP	27-OCT-10	AL	NO32
JA58900-8	SW846 8082	28-OCT-10 18:37	VDT	27-OCT-10	GAD	P8082PCBAO
JA58900-8	SW846 8151	28-OCT-10 21:56	TDR	27-OCT-10	SK	H8151STD
JA58900-8	SW846 8081A	01-NOV-10 18:17	OPM	27-OCT-10	GAD	P8081PESTTCL
JA58900-8	EPA 300/SW846 9056	01-NOV-10 22:53	MS	01-NOV-10	MS	CHL,SO4
JA58900-8	CORP ENG 81M/SW9002M	02-NOV-10 16:20	SJG	02-NOV-10	SJG	TOC
JA58900-8	SW846 8270C	02-NOV-10 17:31	KLS	25-OCT-10	SK	AB8270PPTCL11
JA58900-8	SW846 6010B	02-NOV-10 22:56	VC	02-NOV-10	VK	AG,AS,B,BA,BE,CD,CO,CR,CU, MN,NI,PB,SB,SE,SN,V,ZN
JA58900-8	ASTM D1498-76M	03-NOV-10	SS			EH
JA58900-8	SW846 9045C,D	03-NOV-10	SS			PH
JA58900-8	SM18 2540G	03-NOV-10	KH			SOL104
JA58900-8	SW846 3060A/7196A	03-NOV-10 12:31	RI	28-OCT-10	RI	XCRA
JA58900-8	SW846 6010/7196A M	03-NOV-10 12:31	RI			CR3
JA58900-8	SW846 8151	04-NOV-10 03:20	TDR	30-OCT-10	GGP	H8151STD
JA58900-8	SW846 7471A	08-NOV-10 12:26	JF	07-NOV-10	JF	HG
JA58900-9 Collected: 13-OCT-10 15:30 By: MH Received: 14-OCT-10 By: TH BBNPP-CW10-C						

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58900

Bell Bend Nuclear Power Plant, Salem Township, PA
 Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA58900-9	SW846 9012 M/LACHAT	20-OCT-10 16:35	VA	19-OCT-10	BC	CN
JA58900-9	SW846 8141B	21-OCT-10 18:26	AFL	20-OCT-10	AFL	P8141SL
JA58900-9	SW846 8315	22-OCT-10 05:44	AMA	19-OCT-10		LC+ ACHD
JA58900-9	SW846 8315	22-OCT-10 20:57	AMA	19-OCT-10		LC8315FORM
JA58900-9	SW846 8260B	26-OCT-10 19:57	JTP			V8260AP9SL
JA58900-9	DAI BY GC/MS 8260S	24-OCT-10 20:03	KLS			D8260SIMEGLY
JA58900-9	EPA 353.2 M/LACHAT	28-OCT-10 11:05	NP	27-OCT-10	AL	NO32
JA58900-9	SW846 8082	28-OCT-10 18:54	VDT	27-OCT-10	GAD	P8082PCBAO
JA58900-9	SW846 8151	28-OCT-10 22:28	TDR	27-OCT-10	SK	H8151STD
JA58900-9	SW846 8081A	01-NOV-10 18:30	OPM	27-OCT-10	GAD	P8081PESTTCL
JA58900-9	EPA 300/SW846 9056	02-NOV-10 00:04	MS	01-NOV-10	MS	CHL,SO4
JA58900-9	CORP ENG 81M/SW9060M	02-NOV-10 13:18	SJG	02-NOV-10	SJG	TOC
JA58900-9	SW846 8270C	02-NOV-10 18:01	KLS	25-OCT-10	SK	AB8270PPTCL11
JA58900-9	SW846 6010B	02-NOV-10 23:02	VC	02-NOV-10	VK	AG,AS,B,BA,BE,CD,CO,CR,CU, MN,NI,PB,SB,SE,SN,V,ZN
JA58900-9	ASTM D1498-76M	03-NOV-10	SS			EH
JA58900-9	SM18 2540G	03-NOV-10	KH			SOL104
JA58900-9	SW846 9045C,D	03-NOV-10	SS			PH
JA58900-9	SW846 3060A/7196A	03-NOV-10 12:31	RI	28-OCT-10	RI	XCRA
JA58900-9	SW846 6010/7196A M	03-NOV-10 12:31	RI			CR3
JA58900-9	SW846 8151	04-NOV-10 03:51	TDR	30-OCT-10	GGP	H8151STD
JA58900-9	SW846 7471A	08-NOV-10 12:27	JF	07-NOV-10	JF	HG
JA58900-10 Collected: 13-OCT-10 15:49 By: MH Received: 14-OCT-10 By: TH						
BBNPP-CW13-C						
JA58900-10	SW846 9012 M/LACHAT	20-OCT-10 16:36	VA	19-OCT-10	BC	CN
JA58900-10	SW846 8141B	21-OCT-10 18:55	AFL	20-OCT-10	AFL	P8141SL
JA58900-10	SW846 8315	22-OCT-10 06:05	AMA	19-OCT-10		LC+ ACHD
JA58900-10	SW846 8315	22-OCT-10 21:17	AMA	19-OCT-10		LC8315FORM
JA58900-10	SW846 8260B	26-OCT-10 20:27	JTP			V8260AP9SL
JA58900-10	DAI BY GC/MS 8260S	27-OCT-10 18:58	KLS			D8260SIMEGLY
JA58900-10	EPA 353.2 M/LACHAT	28-OCT-10 11:06	NP	27-OCT-10	AL	NO32
JA58900-10	SW846 8082	28-OCT-10 19:12	VDT	27-OCT-10	GAD	P8082PCBAO
JA58900-10	EPA 300/SW846 9056	02-NOV-10 00:28	MS	01-NOV-10	MS	CHL,SO4
JA58900-10	CORP ENG 81M/SW9060M	02-NOV-10 13:44	SJG	02-NOV-10	SJG	TOC
JA58900-10	SW846 8270C	02-NOV-10 20:28	KLS	25-OCT-10	SK	AB8270PPTCL11
JA58900-10	SW846 6010B	02-NOV-10 23:20	VC	02-NOV-10	VK	AG,AS,B,BA,BE,CD,CO,CR,CU, MN,NI,PB,SB,SE,SN,V,ZN
JA58900-10	ASTM D1498-76M	03-NOV-10	SS			EH

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58900

Bell Bend Nuclear Power Plant, Salem Township, PA
 Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA58900-10	SM18 2540G	03-NOV-10	KH			SOL104
JA58900-10	SW846 9045C,D	03-NOV-10	SS			PH
JA58900-10	SW846 8081A	03-NOV-10 10:42	OPM	27-OCT-10	GAD	P8081PESTTCL
JA58900-10	SW846 3060A/7196A	03-NOV-10 12:31	RI	28-OCT-10	RI	XCRA
JA58900-10	SW846 6010/7196A M	03-NOV-10 12:31	RI			CR3
JA58900-10	SW846 8151	03-NOV-10 13:31	TDR	27-OCT-10	SK	H8151STD
JA58900-10	SW846 8151	04-NOV-10 12:08	TDR	30-OCT-10	GGP	H8151STD
JA58900-10	SW846 7471A	08-NOV-10 12:28	JF	07-NOV-10	JF	HG
JA58900-11 Collected: 13-OCT-10 16:10 By: MH Received: 14-OCT-10 By: TH BBNPP-CW16-C						
JA58900-11	SW846 9012 M/LACHA	20-OCT-10 16:38	VA	19-OCT-10	BC	CN
JA58900-11	SW846 8141B	21-OCT-10 19:25	AFL	20-OCT-10	AFL	P8141SL
JA58900-11	SW846 8315	22-OCT-10 06:26	AMA	19-OCT-10		LC+ ACHD
JA58900-11	SW846 8315	22-OCT-10 21:38	AMA	19-OCT-10		LC8315FORM
JA58900-11	SW846 8260B	26-OCT-10 20:56	JTP			V8260AP9SL
JA58900-11	DAI BY GC/MS 8260S	27-OCT-10 19:15	KLS			D8260SIMEGLY
JA58900-11	EPA 353.2 M/LACHA	28-OCT-10 11:06	NP	27-OCT-10	AL	NO32
JA58900-11	SW846 8082	28-OCT-10 19:29	VDT	27-OCT-10	GAD	P8082PCBAO
JA58900-11	EPA 300/SW846 9056	02-NOV-10 00:52	MS	01-NOV-10	MS	CHL,SO4
JA58900-11	CORP ENG 81M/SW9062M	02-NOV-10 13:56	SJG	02-NOV-10	SJG	TOC
JA58900-11	SW846 8270C	02-NOV-10 20:58	KLS	25-OCT-10	SK	AB8270PPTCL11
JA58900-11	SW846 6010B	02-NOV-10 23:26	VC	02-NOV-10	VK	AG,AS,B,BA,BE,CD,CO,CR,CU, MN,NI,PB,SB,SE,SN,V,ZN
JA58900-11	ASTM D1498-76M	03-NOV-10	SS			EH
JA58900-11	SM18 2540G	03-NOV-10	KH			SOL104
JA58900-11	SW846 9045C,D	03-NOV-10	SS			PH
JA58900-11	SW846 8081A	03-NOV-10 10:55	OPM	27-OCT-10	GAD	P8081PESTTCL
JA58900-11	SW846 3060A/7196A	03-NOV-10 12:31	RI	28-OCT-10	RI	XCRA
JA58900-11	SW846 6010/7196A M	03-NOV-10 12:31	RI			CR3
JA58900-11	SW846 8151	03-NOV-10 14:03	TDR	27-OCT-10	SK	H8151STD
JA58900-11	SW846 8151	04-NOV-10 08:57	TDR	30-OCT-10	GGP	H8151STD
JA58900-11	SW846 7471A	08-NOV-10 12:29	JF	07-NOV-10	JF	HG
JA58900-12 Collected: 13-OCT-10 16:32 By: MH Received: 14-OCT-10 By: TH BBNPP-CW19-C						
JA58900-12	SW846 8141B	21-OCT-10 19:54	AFL	20-OCT-10	AFL	P8141SL
JA58900-12	SW846 8315	22-OCT-10 06:47	AMA	19-OCT-10		LC+ ACHD

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58900

Bell Bend Nuclear Power Plant, Salem Township, PA
 Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA58900-12 SW846 8315		22-OCT-10 21:59	AMA	19-OCT-10		LC8315FORM
JA58900-12 SW846 9012 M/LACHAT		25-OCT-10 13:41	NP	22-OCT-10	BC	CN
JA58900-12 SW846 8260B		26-OCT-10 21:25	JTP			V8260AP9SL
JA58900-12 DAI BY GC/MS 8260SIM		27-OCT-10 16:54	KLS			D8260SIMEGLY
JA58900-12 EPA 353.2 M/LACHAT		28-OCT-10 11:07	NP	27-OCT-10	AL	NO32
JA58900-12 SW846 8082		28-OCT-10 19:46	VDT	27-OCT-10	GAD	P8082PCBAO
JA58900-12 SW846 8081A		01-NOV-10 18:44	OPM	27-OCT-10	GAD	P8081PESTTCL
JA58900-12 EPA 300/SW846 9056		02-NOV-10 01:16	MS	01-NOV-10	MS	CHL,SO4
JA58900-12 CORP ENG 81M/SW9060M		02-NOV-10 14:21	SJG	02-NOV-10	SJG	TOC
JA58900-12 SW846 8270C		02-NOV-10 18:30	KLS	25-OCT-10	SK	AB8270PPTCL11
JA58900-12 SW846 6010B		02-NOV-10 23:32	VC	02-NOV-10	VK	AG,AS,B,BA,BE,CD,CO,CR,CU, MN,NI,PB,SB,SE,SN,V,ZN
JA58900-12 ASTM D1498-76M		03-NOV-10	SS			EH
JA58900-12 SM18 2540G		03-NOV-10	KH			SOL104
JA58900-12 SW846 9045C,D		03-NOV-10	SS			PH
JA58900-12 SW846 3060A/7196A		03-NOV-10 12:31	RI	28-OCT-10	RI	XCRA
JA58900-12 SW846 6010/7196A M		03-NOV-10 12:31	RI			CR3
JA58900-12 SW846 8151		03-NOV-10 21:01	TDR	27-OCT-10		H8151STD
JA58900-12 SW846 8151		04-NOV-10 20:43	TDR	30-OCT-10	GGP	H8151STD
JA58900-12 SW846 7471A		08-NOV-10 12:33	JF	07-NOV-10	JF	HG
JA58900-13 Collected: 14-OCT-10 15:35 By: MH Received: 14-OCT-10 By: TH						
T101410						
JA58900-13 SW846 8260B		26-OCT-10 15:10	JTP			V8260AP9SL
JA58900-14 Collected: 14-OCT-10 12:45 By: MH Received: 14-OCT-10 By: TH						
BBNPP-D1-CFD						
JA58900-14 SW846 8141B		21-OCT-10 20:24	AFL	20-OCT-10	AFL	P8141SL
JA58900-14 SW846 8315		22-OCT-10 07:07	AMA	19-OCT-10		LC+ ACHD
JA58900-14 SW846 8315		22-OCT-10 22:20	AMA	19-OCT-10		LC8315FORM
JA58900-14 SW846 9012 M/LACHAT		25-OCT-10 14:37	NP	21-OCT-10	BC	CN
JA58900-14 SW846 8260B		26-OCT-10 21:55	JTP			V8260AP9SL
JA58900-14 DAI BY GC/MS 8260SIM		27-OCT-10 17:10	KLS			D8260SIMEGLY
JA58900-14 EPA 353.2 M/LACHAT		28-OCT-10 11:08	NP	27-OCT-10	AL	NO32
JA58900-14 SW846 8082		28-OCT-10 20:04	VDT	27-OCT-10	GAD	P8082PCBAO
JA58900-14 SW846 8081A		01-NOV-10 18:57	OPM	27-OCT-10	GAD	P8081PESTTCL
JA58900-14 EPA 300/SW846 9056		02-NOV-10 01:40	MS	01-NOV-10	MS	CHL,SO4
JA58900-14 CORP ENG 81M/SW9060M		02-NOV-10 14:44	SJG	02-NOV-10	SJG	TOC

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58900

Bell Bend Nuclear Power Plant, Salem Township, PA
 Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA58900-14 SW846 8270C		02-NOV-10 19:00	KLS	25-OCT-10	SK	AB8270PPTCL11
JA58900-14 SW846 6010B		02-NOV-10 23:37	VC	02-NOV-10	VK	AG,AS,B,BA,BE,CD,CO,CR,CU, MN,NI,PB,SB,SE,SN,V,ZN
JA58900-14 ASTM D1498-76M		03-NOV-10	SS			EH
JA58900-14 SM18 2540G		03-NOV-10	KH			SOL104
JA58900-14 SW846 9045C,D		03-NOV-10	SS			PH
JA58900-14 SW846 3060A/7196A		03-NOV-10 12:31	RI	28-OCT-10	RI	XCRA
JA58900-14 SW846 6010/7196A M		03-NOV-10 12:31	RI			CR3
JA58900-14 SW846 8151		03-NOV-10 21:33	TDR	27-OCT-10		H8151STD
JA58900-14 SW846 8151		04-NOV-10 21:14	TDR	30-OCT-10	GGP	H8151STD
JA58900-14 SW846 7471A		08-NOV-10 12:34	JF	07-NOV-10	JF	HG
JA58900-15 Collected: 14-OCT-10 15:35 By: MH Received: 14-OCT-10 By: TH						
TRIP BLANK						
JA58900-15 SW846 8260B		21-OCT-10 19:09	JLI			V8260AP9SL

Accutest Internal Chain of Custody

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-1.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-1.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-1.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-1.1	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-1.1	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-1.1	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-1.1	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-1.1	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-1.1	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-1.1	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-1.1	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-1.1	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-1.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-1.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-1.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-1.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-1.1
JA58900-1.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-1.1
JA58900-1.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-1.1.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-1.1.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-1.1.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-1.1.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-1.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-1.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-1.1
JA58900-1.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-1.1
JA58900-1.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-1.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-1.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-1.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-1.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-1.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-1.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-1.1
JA58900-1.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-1.1
JA58900-1.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-1.1.3	Extract Storage	Toya Dagena Raffington	11/02/10 11:02	Retrieve from Storage
JA58900-1.1.3	Toya Dagena Raffington	GCWW	11/02/10 11:02	Load on Instrument
JA58900-1.1.3	GCWW	Toya Dagena Raffington	11/03/10 09:33	Unload from Instrument
JA58900-1.1.3	Toya Dagena Raffington	Extract Freezer	11/03/10 09:33	Return to Storage
JA58900-1.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-1.1.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-1.1

Accutest Internal Chain of Custody

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-1.1.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-1.1
JA58900-1.1.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-1.1.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-1.1.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-1.1.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-1.1.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-1.1.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-1.1.5	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-1.1
JA58900-1.1.5	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-1.1
JA58900-1.1.5	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-1.1.5	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-1.2	Secured Storage	Todd Shoemaker	10/21/10 08:03	Retrieve from Storage
JA58900-1.2	Todd Shoemaker	Barbara Clark	10/21/10 08:08	Custody Transfer
JA58900-1.2	Barbara Clark	Secured Storage	10/21/10 15:58	Return to Storage
JA58900-1.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-1.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-1.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-1.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-1.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-1.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-1.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-1.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-1.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-1.2	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-1.2	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-1.2	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-1.2	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-1.2	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-1.2	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-1.2	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-1.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-1.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-1.2
JA58900-1.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-1.2
JA58900-1.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-1.2.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-1.2.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-1.2.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-1.2.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-1.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-1.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-1.2.1

Accutest Internal Chain of Custody

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-1.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-1.2.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-1.2.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-1.2
JA58900-1.2.4	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-1.2
JA58900-1.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-1.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-1.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-1.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-1.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-1.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-1.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-1.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-1.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-1.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-1.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-1.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-1.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-1.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-1.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-1.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-1.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-2.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-2.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-2.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-2.1	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-2.1	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-2.1	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-2.1	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-2.1	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-2.1	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-2.1	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-2.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-2.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-2.1
JA58900-2.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-2.1

Accutest Internal Chain of Custody

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-2.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-2.1.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-2.1.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-2.1.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-2.1.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-2.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-2.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-2.1
JA58900-2.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-2.1
JA58900-2.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-2.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-2.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-2.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-2.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-2.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-2.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-2.1
JA58900-2.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-2.1
JA58900-2.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-2.1.3	Extract Storage	Toya Dagena Raffington	11/02/10 11:02	Retrieve from Storage
JA58900-2.1.3	Toya Dagena Raffington	GCWW	11/02/10 11:02	Load on Instrument
JA58900-2.1.3	GCWW	Toya Dagena Raffington	11/03/10 09:33	Unload from Instrument
JA58900-2.1.3	Toya Dagena Raffington	Extract Freezer	11/03/10 09:33	Return to Storage
JA58900-2.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-2.1.4	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-2.1
JA58900-2.2	Secured Storage	Todd Shoemaker	10/21/10 08:03	Retrieve from Storage
JA58900-2.2	Todd Shoemaker	Barbara Clark	10/21/10 08:08	Custody Transfer
JA58900-2.2	Barbara Clark	Secured Storage	10/21/10 15:58	Return to Storage
JA58900-2.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-2.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-2.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-2.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-2.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-2.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-2.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-2.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-2.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-2.2	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-2.2	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-2.2	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-2.2	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-2.2	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-2.2	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-2.2	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-2.2	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-2.2	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-2.2	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-2.2	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-2.2	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-2.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-2.2
JA58900-2.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-2.2
JA58900-2.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-2.2.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-2.2.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-2.2.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-2.2.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-2.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-2.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-2.2.1
JA58900-2.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-2.2.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-2.2.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-2.2
JA58900-2.2.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-2.2
JA58900-2.2.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-2.2
JA58900-2.2.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-2.2.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-2.2.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-2.2.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-2.2.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-2.2.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-2.2.5	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-2.2
JA58900-2.2.5	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-2.2
JA58900-2.2.5	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-2.2.5	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-2.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-2.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-2.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-2.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-2.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-2.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-2.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-2.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-2.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-2.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-2.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-2.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-2.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-2.10	Secured Storage	Scott McGonigal	10/27/10 16:34	Retrieve from Storage
JA58900-2.10	Scott McGonigal	GCMMSG	10/27/10 16:34	Load on Instrument
JA58900-2.10	GCMMSG	Scott McGonigal	10/28/10 13:15	Unload from Instrument
JA58900-2.10	Scott McGonigal		10/28/10 13:17	Depleted
JA58900-2.11	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-2.11	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-2.11	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-2.11	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-3.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-3.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-3.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-3.1	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-3.1	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-3.1	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-3.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-3.1
JA58900-3.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-3.1
JA58900-3.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-3.1.1	Extract Storage	Owen McKenna	10/27/10 16:32	Retrieve from Storage
JA58900-3.1.1	Owen McKenna	GC4G	10/27/10 16:32	Load on Instrument
JA58900-3.1.1	GC4G	Owen McKenna	11/01/10 14:04	Unload from Instrument
JA58900-3.1.1	Owen McKenna	Extract Freezer	11/01/10 14:04	Return to Storage
JA58900-3.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-3.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-3.1
JA58900-3.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-3.1
JA58900-3.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-3.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-3.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-3.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-3.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-3.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-3.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-3.1
JA58900-3.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-3.1
JA58900-3.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-3.1.3	Extract Storage	Toya Dagena Raffington	10/28/10 15:41	Retrieve from Storage
JA58900-3.1.3	Toya Dagena Raffington	GCWW	10/28/10 15:41	Load on Instrument
JA58900-3.1.3	GCWW	Toya Dagena Raffington	11/01/10 09:35	Unload from Instrument
JA58900-3.1.3	Toya Dagena Raffington	Extract Freezer	11/01/10 09:35	Return to Storage
JA58900-3.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-3.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-3.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-3.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-3.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-3.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-3.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-3.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-3.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-3.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-3.2	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-3.2	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-3.2	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-3.2	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-3.2	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-3.2	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-3.2	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-3.2	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-3.2	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-3.2	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-3.2	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-3.2	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-3.2	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-3.2	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-3.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-3.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-3.2
JA58900-3.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-3.2
JA58900-3.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-3.2.1	Extract Storage	Kristi Schollenberger	10/26/10 15:55	Retrieve from Storage
JA58900-3.2.1	Kristi Schollenberger	GCMS3P	10/26/10 15:55	Load on Instrument
JA58900-3.2.1	GCMS3P	Kristi Schollenberger	10/27/10 19:01	Unload from Instrument
JA58900-3.2.1	Kristi Schollenberger	Extract Freezer	10/27/10 19:01	Return to Storage
JA58900-3.2.1	Extract Freezer	Kristi Schollenberger	11/01/10 12:19	Retrieve from Storage

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-3.2.1	Kristi Schollenberger	GCMS3P	11/01/10 12:19	Load on Instrument
JA58900-3.2.1	GCMS3P	Kristi Schollenberger	11/02/10 12:45	Unload from Instrument
JA58900-3.2.1	Kristi Schollenberger	Extract Freezer	11/02/10 12:45	Return to Storage
JA58900-3.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-3.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-3.2.1
JA58900-3.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-3.2.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-3.2.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:22	Digestate from JA58900-3.2
JA58900-3.2.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-3.2
JA58900-3.2.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-3.2
JA58900-3.2.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-3.2.4	Extract Storage	Toya Dagen Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-3.2.4	Toya Dagen Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-3.2.4	GCWW	Toya Dagen Raffington	11/11/10 10:29	Unload from Instrument
JA58900-3.2.4	Toya Dagen Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-3.2.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-3.2.5	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-3.2
JA58900-3.2.5	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-3.2
JA58900-3.2.5	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-3.2.5	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-3.2.6	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-3.2
JA58900-3.2.7	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-3.2
JA58900-3.3	Secured Storage	Adam Scott	10/27/10 06:29	Retrieve from Storage
JA58900-3.3	Adam Scott	Gwendolyn Dymowski	10/27/10 06:35	Custody Transfer
JA58900-3.3	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-3.3	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-3.3	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-3.3	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-3.3	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-3.3	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-3.3	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-3.3	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-3.3	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-3.3	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-3.3	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-3.3	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-3.3	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-3.3	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-3.3	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-3.3	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-3.3	Secured Storage	Adam Scott	11/22/10 06:51	Retrieve from Storage
JA58900-3.3	Adam Scott	Shirley Grzybowski	11/22/10 07:18	Custody Transfer
JA58900-3.3	Shirley Grzybowski	Secured Storage	11/22/10 15:10	Return to Storage
JA58900-3.3	Secured Storage	Todd Shoemaker	12/02/10 08:07	Retrieve from Storage
JA58900-3.3	Todd Shoemaker	Sarvadaman Tripathi	12/02/10 08:33	Custody Transfer
JA58900-3.3	Sarvadaman Tripathi	Secured Storage	12/02/10 16:16	Return to Storage
JA58900-3.3.1	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-3.3
JA58900-3.3.1	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-3.3
JA58900-3.3.1	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-3.3.1	Extract Storage	Toya Dagena Raffington	11/03/10 09:35	Retrieve from Storage
JA58900-3.3.1	Toya Dagena Raffington	GCWW	11/03/10 09:35	Load on Instrument
JA58900-3.3.1	GCWW	Toya Dagena Raffington	11/03/10 09:36	Unload from Instrument
JA58900-3.3.1	Toya Dagena Raffington	Extract Freezer	11/03/10 09:36	Return to Storage
JA58900-3.3.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-3.4	Secured Storage	Todd Shoemaker	10/21/10 08:03	Retrieve from Storage
JA58900-3.4	Todd Shoemaker	Barbara Clark	10/21/10 08:08	Custody Transfer
JA58900-3.4	Barbara Clark	Secured Storage	10/21/10 15:58	Return to Storage
JA58900-3.4	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-3.4	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-3.4	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-3.4	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-3.4	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-3.4	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-3.5	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-3.5	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-3.5	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-3.6	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-3.6	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-3.6	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-3.8	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-3.8	Kristi Schollenberger	GCMSh	10/26/10 18:08	Load on Instrument
JA58900-3.8	GCMSh	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-3.8	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-3.12	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.12	Robert Lofrano		10/15/10 17:08	Subcontract

Accutest Internal Chain of Custody

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-3.13	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.13	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.14	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.14	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.15	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.15	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.16	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.16	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.17	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.17	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.18	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.18	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.19	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.19	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.20	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.20	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.26	Secured Storage	Juntae Park	10/26/10 14:33	Retrieve from Storage
JA58900-3.26	Juntae Park	GCMSX	10/26/10 14:33	Load on Instrument
JA58900-3.26	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-3.26	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-3.27	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-3.27	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-3.27	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-3.27	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-3.28	Secured Storage	Juntae Park	10/27/10 16:34	Retrieve from Storage
JA58900-3.28	Juntae Park	GCMSX	10/27/10 16:34	Load on Instrument
JA58900-3.28	GCMSX	Juntae Park	10/29/10 14:36	Unload from Instrument
JA58900-3.28	Juntae Park	Secured Storage	10/29/10 14:36	Return to Storage
JA58900-3.29	Secured Storage	Scott McGonigal	10/27/10 16:34	Retrieve from Storage
JA58900-3.29	Scott McGonigal	GCMSG	10/27/10 16:34	Load on Instrument
JA58900-3.29	GCMSG	Scott McGonigal	10/28/10 13:15	Unload from Instrument
JA58900-3.29	Scott McGonigal		10/28/10 13:17	Depleted

Accutest Internal Chain of Custody

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-4.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-4.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-4.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-4.1	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-4.1	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-4.1	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-4.1	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-4.1	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-4.1	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-4.1	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-4.1	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-4.1	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-4.1	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-4.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-4.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-4.1
JA58900-4.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-4.1
JA58900-4.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-4.1.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-4.1.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-4.1.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-4.1.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-4.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-4.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-4.1
JA58900-4.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-4.1
JA58900-4.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-4.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-4.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-4.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-4.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-4.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-4.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-4.1
JA58900-4.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-4.1
JA58900-4.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-4.1.3	Extract Storage	Toya Dagena Raffington	11/03/10 09:35	Retrieve from Storage
JA58900-4.1.3	Toya Dagena Raffington	GCWW	11/03/10 09:35	Load on Instrument
JA58900-4.1.3	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-4.1.3	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-4.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-4.1.4	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-4.1

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-4.1.4	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-4.1
JA58900-4.1.4	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-4.1.4	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-4.1.5	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-4.1
JA58900-4.2	Secured Storage	Todd Shoemaker	10/21/10 08:03	Retrieve from Storage
JA58900-4.2	Todd Shoemaker	Barbara Clark	10/21/10 08:08	Custody Transfer
JA58900-4.2	Barbara Clark	Secured Storage	10/21/10 15:58	Return to Storage
JA58900-4.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-4.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-4.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-4.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-4.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-4.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-4.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-4.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-4.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-4.2	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-4.2	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-4.2	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-4.2	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-4.2	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-4.2	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-4.2	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-4.2	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-4.2	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-4.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-4.2
JA58900-4.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-4.2
JA58900-4.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-4.2.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-4.2.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-4.2.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-4.2.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-4.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-4.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-4.2.1
JA58900-4.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-4.2.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-4.2.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-4.2
JA58900-4.2.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-4.2

Accutest Internal Chain of Custody

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-4.2.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-4.2
JA58900-4.2.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-4.2.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-4.2.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-4.2.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-4.2.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-4.2.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-4.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-4.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-4.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-4.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-4.4	Kristi Schollenberger	GCMSh	10/26/10 18:08	Load on Instrument
JA58900-4.4	GCMSh	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-4.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-4.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-4.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-4.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-4.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-4.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-4.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-4.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-4.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-4.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-4.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-5.1	Secured Storage	Edgardo Arrazola	10/21/10 12:17	Retrieve from Storage
JA58900-5.1	Edgardo Arrazola		10/21/10 23:19	Depleted
JA58900-5.1.1	Edgardo Arrazola	Organics Prep	10/21/10 12:17	Extract from JA58900-5.1
JA58900-5.1.1	Organics Prep	Edgardo Arrazola	10/21/10 18:04	Extract from JA58900-5.1.
JA58900-5.1.1	Edgardo Arrazola	Extract Storage	10/21/10 18:04	Return to Storage
JA58900-5.1.1	Extract Storage	Larisa Pejdah	10/21/10 18:29	Retrieve from Storage
JA58900-5.1.1	Larisa Pejdah	GCMSF	10/21/10 18:29	Load on Instrument
JA58900-5.1.1	GCMSF	Nina Pandya	10/22/10 07:35	Unload from Instrument
JA58900-5.1.1	Nina Pandya	Extract Freezer	10/22/10 07:35	Return to Storage
JA58900-5.1.1	Extract Freezer		12/01/10 09:00	Disposed
JA58900-5.4	Secured Storage	George Paunovski	10/20/10 15:44	Retrieve from Storage

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-5.4	George Paunovski		10/20/10 18:27	Depleted
JA58900-5.4.1	George Paunovski	Organics Prep	10/20/10 15:45	Extract from JA58900-5.4
JA58900-5.4.1	Organics Prep	George Paunovski	10/20/10 23:58	Extract from JA58900-5.4
JA58900-5.4.1	George Paunovski	Extract Storage	10/20/10 23:58	Return to Storage
JA58900-5.4.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:34	Retrieve from Storage
JA58900-5.4.1	Toya Dagena Raffington	GCWW	10/21/10 16:34	Load on Instrument
JA58900-5.4.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58900-5.4.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58900-5.4.1	Extract Freezer		11/30/10 09:00	Disposed
JA58900-5.5	Secured Storage	Alan Wan	10/20/10 14:14	Retrieve from Storage
JA58900-5.5	Alan Wan		10/20/10 21:39	Depleted
JA58900-5.5.1	Alan Wan	Organics Prep	10/20/10 14:14	Extract from JA58900-5.5
JA58900-5.5.1	Organics Prep	Alan Wan	10/20/10 18:55	Extract from JA58900-5.5
JA58900-5.5.1	Alan Wan	Extract Storage	10/20/10 18:55	Return to Storage
JA58900-5.5.1	Extract Storage	Toya Dagena Raffington	10/22/10 15:02	Retrieve from Storage
JA58900-5.5.1	Toya Dagena Raffington	GC3G	10/22/10 15:02	Load on Instrument
JA58900-5.5.1	GC3G	Toya Dagena Raffington	10/22/10 17:19	Unload from Instrument
JA58900-5.5.1	Toya Dagena Raffington	Extract Freezer	10/22/10 17:19	Return to Storage
JA58900-5.5.1	Extract Freezer		11/30/10 09:00	Disposed
JA58900-5.5.2	Alan Wan	Organics Prep	10/20/10 14:15	Extract from JA58900-5.5
JA58900-5.5.2	Organics Prep	Alan Wan	10/20/10 18:55	Extract from JA58900-5.5
JA58900-5.5.2	Alan Wan	Extract Storage	10/20/10 18:55	Return to Storage
JA58900-5.5.2	Extract Storage		11/30/10 09:00	Disposed
JA58900-5.6	Secured Storage	Anupama Dubey	10/15/10 14:51	Retrieve from Storage
JA58900-5.6	Anupama Dubey	Secured Storage	10/15/10 16:45	Return to Storage
JA58900-5.6	Secured Storage	Todd Shoemaker	10/29/10 08:48	Retrieve from Storage
JA58900-5.6	Todd Shoemaker	Melissa Smith	10/29/10 08:50	Custody Transfer
JA58900-5.6	Melissa Smith	Secured Storage	10/29/10 16:04	Return to Storage
JA58900-5.7	Secured Storage	Adam Scott	11/01/10 07:24	Retrieve from Storage
JA58900-5.7	Adam Scott	Rinku Patel	11/01/10 08:09	Custody Transfer
JA58900-5.7	Rinku Patel	Secured Storage	11/01/10 16:35	Return to Storage
JA58900-5.7	Secured Storage	Todd Shoemaker	11/05/10 08:49	Retrieve from Storage
JA58900-5.7	Todd Shoemaker	Jieyu Wang	11/05/10 08:50	Custody Transfer
JA58900-5.7	Jieyu Wang	Secured Storage	11/05/10 18:16	Return to Storage
JA58900-5.8	Secured Storage	Adam Scott	10/30/10 09:36	Retrieve from Storage
JA58900-5.8	Adam Scott	Shirley Grzybowski	10/30/10 09:42	Custody Transfer
JA58900-5.8	Shirley Grzybowski	Secured Storage	11/01/10 07:04	Return to Storage

Accutest Internal Chain of Custody

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-5.9	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-5.9	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-5.10	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-5.10	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-5.11	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-5.11	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-5.12	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-5.12	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-5.13	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-5.13	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-5.14	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-5.14	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-5.16	Secured Storage	Kristi Schollenberger	10/20/10 17:06	Retrieve from Storage
JA58900-5.16	Kristi Schollenberger	GCMSH	10/20/10 17:06	Load on Instrument
JA58900-5.16	GCMSH	Kristi Schollenberger	10/21/10 16:27	Unload from Instrument
JA58900-5.16	Kristi Schollenberger	Secured Storage	10/21/10 16:27	Return to Storage
JA58900-5.17	Secured Storage	Jianhua Li	10/21/10 16:35	Retrieve from Storage
JA58900-5.17	Jianhua Li	GCMSV	10/21/10 16:35	Load on Instrument
JA58900-5.17	GCMSV	Jianhua Li	10/22/10 10:25	Unload from Instrument
JA58900-5.17	Jianhua Li	Secured Storage	10/22/10 10:25	Return to Storage
JA58900-6.2	Secured Storage	Edgardo Arrazola	10/21/10 12:17	Retrieve from Storage
JA58900-6.2	Edgardo Arrazola		10/21/10 23:19	Depleted
JA58900-6.2.1	Edgardo Arrazola	Organics Prep	10/21/10 12:17	Extract from JA58900-6.2
JA58900-6.2.1	Organics Prep	Edgardo Arrazola	10/21/10 18:04	Extract from JA58900-6.2
JA58900-6.2.1	Edgardo Arrazola	Extract Storage	10/21/10 18:04	Return to Storage
JA58900-6.2.1	Extract Storage	Larisa Pejdah	10/21/10 18:29	Retrieve from Storage
JA58900-6.2.1	Larisa Pejdah	GCMSF	10/21/10 18:29	Load on Instrument
JA58900-6.2.1	GCMSF	Nina Pandya	10/22/10 07:35	Unload from Instrument
JA58900-6.2.1	Nina Pandya	Extract Freezer	10/22/10 07:35	Return to Storage
JA58900-6.2.1	Extract Freezer		12/01/10 09:00	Disposed
JA58900-6.3	Secured Storage	George Paunovski	10/20/10 15:44	Retrieve from Storage
JA58900-6.3	George Paunovski		10/20/10 18:27	Depleted

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-6.3.1	George Paunovski	Organics Prep	10/20/10 15:45	Extract from JA58900-6.3
JA58900-6.3.1	Organics Prep	George Paunovski	10/20/10 23:58	Extract from JA58900-6.3
JA58900-6.3.1	George Paunovski	Extract Storage	10/20/10 23:58	Return to Storage
JA58900-6.3.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:34	Retrieve from Storage
JA58900-6.3.1	Toya Dagena Raffington	GCWW	10/21/10 16:34	Load on Instrument
JA58900-6.3.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58900-6.3.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58900-6.3.1	Extract Freezer		11/30/10 09:00	Disposed
JA58900-6.5	Secured Storage	Alan Wan	10/20/10 14:14	Retrieve from Storage
JA58900-6.5	Alan Wan		10/20/10 21:39	Depleted
JA58900-6.5.1	Alan Wan	Organics Prep	10/20/10 14:14	Extract from JA58900-6.5
JA58900-6.5.1	Organics Prep	Alan Wan	10/20/10 18:55	Extract from JA58900-6.5
JA58900-6.5.1	Alan Wan	Extract Storage	10/20/10 18:55	Return to Storage
JA58900-6.5.1	Extract Storage	Toya Dagena Raffington	10/22/10 15:02	Retrieve from Storage
JA58900-6.5.1	Toya Dagena Raffington	GC3G	10/22/10 15:02	Load on Instrument
JA58900-6.5.1	GC3G	Toya Dagena Raffington	10/22/10 17:19	Unload from Instrument
JA58900-6.5.1	Toya Dagena Raffington	Extract Freezer	10/22/10 17:19	Return to Storage
JA58900-6.5.1	Extract Freezer		11/30/10 09:00	Disposed
JA58900-6.5.2	Alan Wan	Organics Prep	10/20/10 14:15	Extract from JA58900-6.5
JA58900-6.5.2	Organics Prep	Alan Wan	10/20/10 18:55	Extract from JA58900-6.5
JA58900-6.5.2	Alan Wan	Extract Storage	10/20/10 18:55	Return to Storage
JA58900-6.5.2	Extract Storage		11/30/10 09:00	Disposed
JA58900-6.6	Secured Storage	Anupama Dubey	10/15/10 14:51	Retrieve from Storage
JA58900-6.6	Anupama Dubey	Secured Storage	10/15/10 16:45	Return to Storage
JA58900-6.6	Secured Storage	Todd Shoemaker	10/29/10 08:48	Retrieve from Storage
JA58900-6.6	Todd Shoemaker	Melissa Smith	10/29/10 08:50	Custody Transfer
JA58900-6.6	Melissa Smith	Secured Storage	10/29/10 16:04	Return to Storage
JA58900-6.7	Secured Storage	Adam Scott	11/01/10 07:24	Retrieve from Storage
JA58900-6.7	Adam Scott	Rinku Patel	11/01/10 08:09	Custody Transfer
JA58900-6.7	Rinku Patel	Secured Storage	11/01/10 16:35	Return to Storage
JA58900-6.7	Secured Storage	Todd Shoemaker	11/05/10 08:49	Retrieve from Storage
JA58900-6.7	Todd Shoemaker	Jieyu Wang	11/05/10 08:50	Custody Transfer
JA58900-6.7	Jieyu Wang	Secured Storage	11/05/10 18:16	Return to Storage
JA58900-6.8	Secured Storage	Adam Scott	10/30/10 09:36	Retrieve from Storage
JA58900-6.8	Adam Scott	Shirley Grzybowski	10/30/10 09:42	Custody Transfer
JA58900-6.8	Shirley Grzybowski	Secured Storage	11/01/10 07:04	Return to Storage
JA58900-6.9	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage

Accutest Internal Chain of Custody

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-6.9	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-6.10	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-6.10	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-6.11	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-6.11	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-6.12	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-6.12	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-6.13	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-6.13	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-6.14	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-6.14	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-6.16	Secured Storage	Jianhua Li	10/21/10 16:35	Retrieve from Storage
JA58900-6.16	Jianhua Li	GCMSV	10/21/10 16:35	Load on Instrument
JA58900-6.16	GCMSV	Jianhua Li	10/22/10 10:25	Unload from Instrument
JA58900-6.16	Jianhua Li	Secured Storage	10/22/10 10:25	Return to Storage
JA58900-6.18	Secured Storage	Kristi Schollenberger	10/20/10 17:06	Retrieve from Storage
JA58900-6.18	Kristi Schollenberger	GCMSh	10/20/10 17:06	Load on Instrument
JA58900-6.18	GCMSh	Kristi Schollenberger	10/21/10 16:27	Unload from Instrument
JA58900-6.18	Kristi Schollenberger	Secured Storage	10/21/10 16:27	Return to Storage
JA58900-7.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58900-7.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58900-7.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58900-7.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-7.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-7.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-7.1	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-7.1	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-7.1	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-7.1	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-7.1	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-7.1	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-7.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-7.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-7.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-7.1	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-7.1	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-7.1	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-7.1	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-7.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-7.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-7.1
JA58900-7.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-7.1
JA58900-7.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-7.1.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-7.1.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-7.1.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-7.1.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-7.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-7.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-7.1
JA58900-7.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-7.1
JA58900-7.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-7.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-7.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-7.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-7.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-7.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-7.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-7.1
JA58900-7.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-7.1
JA58900-7.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-7.1.3	Extract Storage	Toya Dagena Raffington	10/28/10 15:41	Retrieve from Storage
JA58900-7.1.3	Toya Dagena Raffington	GCWW	10/28/10 15:41	Load on Instrument
JA58900-7.1.3	GCWW	Toya Dagena Raffington	11/01/10 09:35	Unload from Instrument
JA58900-7.1.3	Toya Dagena Raffington	Extract Freezer	11/01/10 09:35	Return to Storage
JA58900-7.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-7.1.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-7.1
JA58900-7.1.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-7.1
JA58900-7.1.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-7.1.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-7.1.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-7.1.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-7.1.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-7.1.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-7.1.5	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-7.1
JA58900-7.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-7.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer

Accutest Internal Chain of Custody

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-7.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-7.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-7.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-7.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-7.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-7.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-7.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-7.2	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-7.2	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-7.2	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-7.2	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-7.2	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-7.2	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-7.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-7.2
JA58900-7.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-7.2
JA58900-7.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-7.2.1	Extract Storage		12/06/10 09:00	Disposed
JA58900-7.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-7.2.1
JA58900-7.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-7.2.2	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-7.2.2	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-7.2.2	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-7.2.2	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-7.2.2	Extract Freezer		12/06/10 09:00	Disposed
JA58900-7.2.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-7.2
JA58900-7.2.4	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-7.2
JA58900-7.2.4	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-7.2
JA58900-7.2.4	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-7.2.4	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-7.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-7.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-7.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-7.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-7.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-7.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-7.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-7.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-7.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-7.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-7.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-7.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-7.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-7.10	Secured Storage	Juntae Park	10/27/10 16:34	Retrieve from Storage
JA58900-7.10	Juntae Park	GCMSX	10/27/10 16:34	Load on Instrument
JA58900-7.10	GCMSX	Juntae Park	10/29/10 14:36	Unload from Instrument
JA58900-7.10	Juntae Park	Secured Storage	10/29/10 14:36	Return to Storage
JA58900-7.11	Secured Storage	Scott McGonigal	10/27/10 16:34	Retrieve from Storage
JA58900-7.11	Scott McGonigal	GCMSG	10/27/10 16:34	Load on Instrument
JA58900-7.11	GCMSG	Scott McGonigal	10/28/10 13:15	Unload from Instrument
JA58900-7.11	Scott McGonigal		10/28/10 13:17	Depleted
JA58900-8.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58900-8.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58900-8.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58900-8.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-8.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-8.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-8.1	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-8.1	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-8.1	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-8.1	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-8.1	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-8.1	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-8.1	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-8.1	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-8.1	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-8.1	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-8.1	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-8.1	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-8.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-8.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-8.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-8.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-8.1
JA58900-8.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-8.1
JA58900-8.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-8.1.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage

Accutest Internal Chain of Custody

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-8.1.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-8.1.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-8.1.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-8.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-8.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-8.1
JA58900-8.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-8.1
JA58900-8.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-8.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-8.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-8.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-8.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-8.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-8.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-8.1
JA58900-8.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-8.1
JA58900-8.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-8.1.3	Extract Storage	Toya Dagena Raffington	10/28/10 15:41	Retrieve from Storage
JA58900-8.1.3	Toya Dagena Raffington	GCWW	10/28/10 15:41	Load on Instrument
JA58900-8.1.3	GCWW	Toya Dagena Raffington	11/01/10 09:35	Unload from Instrument
JA58900-8.1.3	Toya Dagena Raffington	Extract Freezer	11/01/10 09:35	Return to Storage
JA58900-8.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-8.1.4	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-8.1
JA58900-8.1.5	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-8.1
JA58900-8.1.5	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-8.1
JA58900-8.1.5	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-8.1.5	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-8.1.5	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-8.1.5	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-8.1.5	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-8.1.5	Extract Freezer		12/10/10 09:00	Disposed
JA58900-8.1.6	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-8.1
JA58900-8.1.6	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-8.1
JA58900-8.1.6	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-8.1.6	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-8.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-8.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-8.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-8.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-8.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-8.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-8.2	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-8.2	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-8.2	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-8.2	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-8.2	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-8.2	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-8.2	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-8.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-8.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-8.2
JA58900-8.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-8.2
JA58900-8.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-8.2.1	Extract Storage		12/06/10 09:00	Disposed
JA58900-8.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-8.2.1
JA58900-8.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-8.2.2	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-8.2.2	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-8.2.2	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-8.2.2	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-8.2.2	Extract Freezer		12/06/10 09:00	Disposed
JA58900-8.2.3	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-8.2
JA58900-8.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-8.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-8.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-8.5	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-8.5	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-8.5	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-8.5	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-8.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-8.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-8.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-8.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-8.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-8.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-8.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage

Accutest Internal Chain of Custody

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-8.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-8.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-8.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-9.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58900-9.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58900-9.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58900-9.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-9.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-9.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-9.1	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-9.1	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-9.1	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-9.1	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-9.1	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-9.1	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-9.1	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-9.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-9.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-9.1
JA58900-9.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-9.1
JA58900-9.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-9.1.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-9.1.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-9.1.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-9.1.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-9.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-9.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-9.1
JA58900-9.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-9.1
JA58900-9.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-9.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-9.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-9.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-9.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-9.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-9.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-9.1
JA58900-9.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-9.1
JA58900-9.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-9.1.3	Extract Storage	Toya Dagena Raffington	10/28/10 15:41	Retrieve from Storage
JA58900-9.1.3	Toya Dagena Raffington	GCWW	10/28/10 15:41	Load on Instrument
JA58900-9.1.3	GCWW	Toya Dagena Raffington	11/01/10 09:35	Unload from Instrument
JA58900-9.1.3	Toya Dagena Raffington	Extract Freezer	11/01/10 09:35	Return to Storage

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample, Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-9.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-9.1.4	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-9.1
JA58900-9.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-9.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-9.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-9.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-9.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-9.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-9.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-9.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-9.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-9.2	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-9.2	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-9.2	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-9.2	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-9.2	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-9.2	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-9.2	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-9.2	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-9.2	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-9.2	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-9.2	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-9.2	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-9.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-9.2
JA58900-9.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-9.2
JA58900-9.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-9.2.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-9.2.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-9.2.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-9.2.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-9.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-9.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-9.2.1
JA58900-9.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-9.2.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-9.2.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-9.2
JA58900-9.2.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-9.2
JA58900-9.2.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-9.2
JA58900-9.2.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
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Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-9.2.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-9.2.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-9.2.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-9.2.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-9.2.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-9.2.5	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-9.2
JA58900-9.2.5	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-9.2
JA58900-9.2.5	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-9.2.5	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-9.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-9.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-9.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-9.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-9.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-9.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-9.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-9.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-9.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-9.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-9.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-9.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-9.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-9.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-9.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-9.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-9.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-10.1	Secured Storage	Steven Kim	10/25/10 09:39	Retrieve from Storage
JA58900-10.1	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-10.1	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-10.1	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-10.1	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-10.1	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-10.1	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-10.1	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-10.1	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-10.1	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-10.1	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-10.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-10.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-10.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-10.1.1	Steven Kim	Organics Prep	10/25/10 09:39	Extract from JA58900-10.1
JA58900-10.1.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-10.1
JA58900-10.1.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-10.1.1	Extract Storage		12/06/10 09:00	Disposed
JA58900-10.1.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-10.1.1
JA58900-10.1.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-10.1.2	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-10.1.2	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-10.1.2	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-10.1.2	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-10.1.2	Extract Freezer		12/06/10 09:00	Disposed
JA58900-10.1.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-10.1
JA58900-10.2	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58900-10.2	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58900-10.2	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58900-10.2	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-10.2	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-10.2	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-10.2	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-10.2	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-10.2	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-10.2	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-10.2	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-10.2	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-10.2	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-10.2	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-10.2	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-10.2	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-10.2	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-10.2	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-10.2	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-10.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-10.2.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-10.2
JA58900-10.2.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-10.2
JA58900-10.2.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-10.2.1	Extract Storage	Owen McKenna	11/03/10 11:14	Retrieve from Storage
JA58900-10.2.1	Owen McKenna	GC4G	11/03/10 11:14	Load on Instrument
JA58900-10.2.1	GC4G	Owen McKenna	11/09/10 14:31	Unload from Instrument
JA58900-10.2.1	Owen McKenna	Extract Freezer	11/09/10 14:31	Return to Storage
JA58900-10.2.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-10.2.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-10.2
JA58900-10.2.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-10.2
JA58900-10.2.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-10.2.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-10.2.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-10.2.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-10.2.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-10.2.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-10.2.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-10.2
JA58900-10.2.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-10.2
JA58900-10.2.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-10.2.3	Extract Storage	Toya Dagena Raffington	11/03/10 09:35	Retrieve from Storage
JA58900-10.2.3	Toya Dagena Raffington	GCWW	11/03/10 09:35	Load on Instrument
JA58900-10.2.3	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-10.2.3	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-10.2.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-10.2.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-10.2
JA58900-10.2.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-10.2
JA58900-10.2.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-10.2.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-10.2.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-10.2.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-10.2.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-10.2.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-10.2.5	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-10.2
JA58900-10.2.5	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-10.2
JA58900-10.2.5	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-10.2.5	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-10.2.6	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-10.2
JA58900-10.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-10.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-10.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-10.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-10.4	Kristi Schollenberger	GCM SH	10/26/10 18:08	Load on Instrument
JA58900-10.4	GCM SH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-10.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-10.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-10.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-10.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-10.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-10.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-10.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-10.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-10.10	Juntae Park	GCM SX	10/26/10 17:17	Load on Instrument
JA58900-10.10	GCM SX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-10.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-11.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58900-11.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58900-11.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58900-11.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-11.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-11.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-11.1	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-11.1	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-11.1	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-11.1	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-11.1	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-11.1	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-11.1	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-11.1	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-11.1	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-11.1	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-11.1	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-11.1	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-11.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-11.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-11.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-11.1	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-11.1	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-11.1	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-11.1	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-11.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-11.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-11.1
JA58900-11.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-11.1
JA58900-11.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-11.1.1	Extract Storage	Owen McKenna	11/03/10 11:14	Retrieve from Storage
JA58900-11.1.1	Owen McKenna	GC4G	11/03/10 11:14	Load on Instrument
JA58900-11.1.1	GC4G	Owen McKenna	11/09/10 14:31	Unload from Instrument
JA58900-11.1.1	Owen McKenna	Extract Freezer	11/09/10 14:31	Return to Storage
JA58900-11.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-11.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-11.1
JA58900-11.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-11.1
JA58900-11.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-11.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-11.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-11.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-11.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-11.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-11.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-11.1
JA58900-11.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-11.1
JA58900-11.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-11.1.3	Extract Storage	Toya Dagena Raffington	11/03/10 09:35	Retrieve from Storage
JA58900-11.1.3	Toya Dagena Raffington	GCWW	11/03/10 09:35	Load on Instrument
JA58900-11.1.3	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-11.1.3	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-11.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-11.1.4	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-11.1
JA58900-11.1.5	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-11.1
JA58900-11.1.5	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-11.1
JA58900-11.1.5	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-11.1.5	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-11.1.5	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-11.1.5	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-11.1.5	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-11.1.5	Extract Freezer		12/10/10 09:00	Disposed
JA58900-11.1.6	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-11.1
JA58900-11.1.6	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-11.1
JA58900-11.1.6	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-11.1.6	Metals Digestate Storage		01/10/11 09:00	Disposed

Accutest Internal Chain of Custody

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-11.1.7	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-11.1
JA58900-11.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-11.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-11.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-11.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-11.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-11.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-11.2	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-11.2	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-11.2	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-11.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-11.2
JA58900-11.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-11.2
JA58900-11.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-11.2.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-11.2.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-11.2.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-11.2.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-11.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-11.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-11.2.1
JA58900-11.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-11.2.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-11.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-11.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-11.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-11.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-11.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-11.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-11.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-11.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-11.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-11.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-11.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-11.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-11.8	Robert Lofrano		10/15/10 17:08	Subcontract

Accutest Internal Chain of Custody

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-11.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-11.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-11.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-11.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-12.1	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-12.1	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-12.1	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-12.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-12.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-12.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-12.1	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-12.1	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-12.1	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-12.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-12.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-12.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-12.1	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-12.1	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-12.1	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-12.1	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-12.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-12.1.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-12.1
JA58900-12.1.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-12.1
JA58900-12.1.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-12.1.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-12.1.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-12.1.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-12.1.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-12.1.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-12.1.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-12.1.1
JA58900-12.1.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-12.1.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-12.1.3	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-12.1
JA58900-12.1.3	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-12.1
JA58900-12.1.3	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-12.1.3	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-12.1.3	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-12.1.3	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-12.1.3	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-12.1.3	Extract Freezer		12/07/10 09:00	Disposed

Accutest Internal Chain of Custody

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-12.1.4	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-12.1
JA58900-12.1.4	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-12.1
JA58900-12.1.4	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-12.1.4	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-12.1.4	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-12.1.4	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-12.1.4	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-12.1.4	Extract Freezer		12/07/10 09:00	Disposed
JA58900-12.1.5	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-12.1
JA58900-12.1.5	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-12.1
JA58900-12.1.5	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-12.1.5	Extract Storage	Toya Dagena Raffington	11/03/10 09:35	Retrieve from Storage
JA58900-12.1.5	Toya Dagena Raffington	GCWW	11/03/10 09:35	Load on Instrument
JA58900-12.1.5	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-12.1.5	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-12.1.5	Extract Freezer		12/07/10 09:00	Disposed
JA58900-12.1.6	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-12.1
JA58900-12.2	Secured Storage	Zethan Reyes	10/22/10 07:16	Retrieve from Storage
JA58900-12.2	Zethan Reyes	Barbara Clark	10/22/10 08:03	Custody Transfer
JA58900-12.2	Barbara Clark	Secured Storage	10/22/10 15:22	Return to Storage
JA58900-12.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-12.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-12.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-12.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-12.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-12.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-12.2	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-12.2	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-12.2	George Paunovski	Daniel Klawunn	10/30/10 12:04	Custody Transfer
JA58900-12.2	Daniel Klawunn	Secured Storage	10/30/10 16:26	Return to Storage
JA58900-12.2	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-12.2	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-12.2	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-12.2	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-12.2	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-12.2	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-12.2.1	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-12.2
JA58900-12.2.2	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-12.2

Accutest Internal Chain of Custody

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-12.2.2	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-12.2
JA58900-12.2.2	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-12.2.2	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-12.2.2	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-12.2.2	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-12.2.2	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-12.2.2	Extract Freezer		12/10/10 09:00	Disposed
JA58900-12.2.3	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-12.2
JA58900-12.2.3	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-12.2
JA58900-12.2.3	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-12.2.3	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-12.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-12.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-12.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-12.5	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-12.5	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-12.5	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-12.5	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-12.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-12.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-12.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-12.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-12.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-12.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-12.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-12.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-12.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-12.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-13.1	Secured Storage	Juntae Park	10/26/10 14:27	Retrieve from Storage
JA58900-13.1	Juntae Park	GCMSX	10/26/10 14:27	Load on Instrument
JA58900-13.1	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-13.1	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-14.1	Secured Storage	Todd Shoemaker	10/21/10 08:03	Retrieve from Storage
JA58900-14.1	Todd Shoemaker	Barbara Clark	10/21/10 08:08	Custody Transfer
JA58900-14.1	Barbara Clark	Secured Storage	10/21/10 15:58	Return to Storage

Accutest Internal Chain of Custody

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-14.1	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-14.1	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-14.1	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-14.1	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-14.1	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-14.1	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-14.1	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-14.1	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-14.1	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-14.1	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-14.1	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-14.1	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-14.1	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-14.1	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-14.1	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-14.1	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-14.1	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-14.1	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-14.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-14.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-14.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-14.1.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-14.1
JA58900-14.1.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-14.1
JA58900-14.1.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-14.1.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-14.1.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-14.1.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-14.1.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-14.1.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-14.1.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-14.1.1
JA58900-14.1.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-14.1.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-14.1.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-14.1
JA58900-14.1.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-14.1
JA58900-14.1.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-14.1
JA58900-14.1.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-14.1.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-14.1.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-14.1.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-14.1.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage

Accutest Internal Chain of Custody

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-14.1.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-14.1.5	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-14.1
JA58900-14.1.5	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-14.1
JA58900-14.1.5	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-14.1.5	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-14.2	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-14.2	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-14.2	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-14.2	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-14.2	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-14.2	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-14.2	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-14.2	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-14.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-14.2.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-14.2
JA58900-14.2.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-14.2
JA58900-14.2.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-14.2.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-14.2.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-14.2.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-14.2.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-14.2.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-14.2.2	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-14.2
JA58900-14.2.2	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-14.2
JA58900-14.2.2	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-14.2.2	Extract Storage	Toya Dagena Raffington	11/03/10 09:35	Retrieve from Storage
JA58900-14.2.2	Toya Dagena Raffington	GCWW	11/03/10 09:35	Load on Instrument
JA58900-14.2.2	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-14.2.2	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-14.2.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-14.2.3	Steven Kim	Organics Prep	10/27/10 08:58	Extract from JA58900-14.2
JA58900-14.2.3	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-14.2
JA58900-14.2.3	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-14.2.3	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-14.2.3	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-14.2.3	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-14.2.3	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-14.2.3	Extract Freezer		12/07/10 09:00	Disposed

Accutest Internal Chain of Custody

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/14/10

Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-14.2.4	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-14.2
JA58900-14.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-14.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-14.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-14.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-14.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-14.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-14.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-14.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-14.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-14.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-14.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-14.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-14.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-14.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-14.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-14.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-14.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-15.1	Secured Storage	Jianhua Li	10/21/10 16:35	Retrieve from Storage
JA58900-15.1	Jianhua Li	GCMSV	10/21/10 16:35	Load on Instrument
JA58900-15.1	GCMSV	Jianhua Li	10/22/10 10:25	Unload from Instrument
JA58900-15.1	Jianhua Li	Secured Storage	10/22/10 10:25	Return to Storage



New Jersey

ACCUTEST

LABORATORIES

GC/MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

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Job Number: JA58900**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
EH4372-MB	H100516.D	1	10/20/10	KLS	n/a	n/a	EH4372

The QC reported here applies to the following samples:**Method:** DAI BY GC/MS 8260SIM

JA58900-5, JA58900-6

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.25	0.10	mg/l	

CAS No.	Surrogate Recoveries	Limits
111-27-3	Hexanol	72% 50-150%

5.1.1
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Method Blank Summary

Job Number: JA58900
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
EH4374-MB	H100573.D	1	10/26/10	KLS	n/a	n/a	EH4374

The QC reported here applies to the following samples: Method: DAI BY GC/MS 8260SIM

JA58900-3, JA58900-9

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.25	0.079	mg/kg	

CAS No.	Surrogate Recoveries	Limits
111-27-3	Hexanol	79% 50-150%

5.1.2
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Method Blank Summary

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Job Number: JA58900**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
EH4374-MB2	H100589.D	1	10/27/10	KLS	n/a	n/a	EH4374

The QC reported here applies to the following samples:**Method:** DAI BY GC/MS 8260SIM

JA58900-1, JA58900-2, JA58900-4, JA58900-7, JA58900-8, JA58900-10, JA58900-11, JA58900-12, JA58900-14

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.25	0.079	mg/kg	

CAS No.	Surrogate Recoveries	Limits
111-27-3	Hexanol	101% 50-150%

5.1.3
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Method Blank Summary

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Job Number: JA58900

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
VV4578-MB1	V108521.D	1	10/21/10	JLI	n/a	n/a	VV4578

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-5, JA58900-6, JA58900-15

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.9	ug/l	
75-05-8	Acetonitrile	ND	100	31	ug/l	
107-02-8	Acrolein	ND	50	23	ug/l	
107-13-1	Acrylonitrile	ND	50	3.6	ug/l	
107-05-1	Allyl chloride	ND	5.0	1.6	ug/l	
71-43-2	Benzene	ND	1.0	0.23	ug/l	
100-44-7	Benzyl Chloride	ND	5.0	0.56	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.33	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	4.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.30	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.6	ug/l	
71-36-3	n-Butyl Alcohol	ND	250	110	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.47	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.21	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.74	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
126-99-8	Chloroprene	ND	5.0	0.93	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.31	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.1	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	130	94	ug/l	

Method Blank Summary

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Job Number: JA58900

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
VV4578-MB1	V108521.D	1	10/21/10	JLI	n/a	n/a	VV4578

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-5, JA58900-6, JA58900-15

CAS No.	Compound	Result	RL	MDL	Units	Q
106-89-8	Epichlorohydrin	ND	100	6.1	ug/l	
141-78-6	Ethyl Acetate	ND	5.0	2.0	ug/l	
60-29-7	Ethyl Ether	ND	5.0	0.72	ug/l	
97-63-2	Ethyl methacrylate	ND	10	0.48	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
110-54-3	Hexane	ND	5.0	0.54	ug/l	
78-83-1	Isobutyl alcohol	ND	50	20	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.57	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
80-62-6	Methyl methacrylate	ND	10	1.3	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.86	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.30	ug/l	
79-46-9	2-Nitropropane	ND	10	1.6	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.24	ug/l	
100-42-5	Styrene	ND	5.0	0.58	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
108-70-3	1,3,5-Trichlorobenzene	ND	5.0		ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.24	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.49	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.28	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.30	ug/l	
108-05-4	Vinyl Acetate	ND	10	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	98% 76-120%

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Job Number: JA58900

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
VV4578-MB1	V108521.D	1	10/21/10	JLI	n/a	n/a	VV4578

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-5, JA58900-6, JA58900-15

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	96%	64-135%
2037-26-5	Toluene-D8	105%	76-117%
460-00-4	4-Bromofluorobenzene	89%	72-122%

5.1.4

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Method Blank Summary

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Job Number: JA58900**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
VX4579-MB	X108348.D	1	10/26/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:**Method:** SW846 8260B

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-13, JA58900-14

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
75-05-8	Acetonitrile	ND	100	24	ug/kg	
107-02-8	Acrolein	ND	50	14	ug/kg	
107-13-1	Acrylonitrile	ND	50	0.82	ug/kg	
107-05-1	Allyl chloride	ND	5.0	0.86	ug/kg	
71-43-2	Benzene	ND	1.0	0.34	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	0.40	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.22	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.26	ug/kg	
75-25-2	Bromoform	ND	5.0	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.40	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/kg	
71-36-3	n-Butyl Alcohol	ND	250	94	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.38	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.49	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.48	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.31	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.56	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.34	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.32	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.17	ug/kg	
126-99-8	Chloroprene	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.29	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.11	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.14	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.24	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.45	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.13	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.096	ug/kg	
123-91-1	1,4-Dioxane	ND	130	86	ug/kg	

5.1.5
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Job Number: JA58900

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
VX4579-MB	X108348.D	1	10/26/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-13, JA58900-14

CAS No.	Compound	Result	RL	MDL	Units	Q
106-89-8	Epichlorohydrin	ND	100	1.7	ug/kg	
141-78-6	Ethyl Acetate	ND	5.0	1.9	ug/kg	
60-29-7	Ethyl Ether	ND	5.0	0.33	ug/kg	
97-63-2	Ethyl methacrylate	ND	10	0.13	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.37	ug/kg	
110-54-3	Hexane	ND	5.0	0.15	ug/kg	
78-83-1	Isobutyl alcohol	ND	50	12	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.52	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	0.82	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.28	ug/kg	
80-62-6	Methyl methacrylate	ND	10	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.81	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.18	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.22	ug/kg	
79-46-9	2-Nitropropane	ND	10	1.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.26	ug/kg	
100-42-5	Styrene	ND	5.0	0.11	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.29	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.15	ug/kg	
108-88-3	Toluene	ND	1.0	0.29	ug/kg	
108-70-3	1,3,5-Trichlorobenzene	ND	5.0		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.19	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.53	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.32	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.43	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.36	ug/kg	
108-05-4	Vinyl Acetate	ND	10	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.18	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	0.47	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	97% 67-127%

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Job Number: JA58900

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
VX4579-MB	X108348.D	1	10/26/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-13, JA58900-14

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4	103% 65-132%
2037-26-5	Toluene-D8	111% 74-129%
460-00-4	4-Bromofluorobenzene	108% 62-138%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Page 1 of 3

Job Number: JA58900

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
VX4579-MB2	X108393.D	1	10/27/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.2	ug/kg	
75-05-8	Acetonitrile	ND	100	24	ug/kg	
107-02-8	Acrolein	ND	50	14	ug/kg	
107-13-1	Acrylonitrile	ND	50	0.82	ug/kg	
107-05-1	Allyl chloride	ND	5.0	0.86	ug/kg	
71-43-2	Benzene	ND	1.0	0.34	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.22	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.26	ug/kg	
75-25-2	Bromoform	ND	5.0	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.40	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.0	ug/kg	
71-36-3	n-Butyl Alcohol	ND	250	94	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.38	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.49	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.48	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.31	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.56	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.34	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.0	ug/kg	
67-66-3	Chloroform	ND	5.0	0.32	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.17	ug/kg	
126-99-8	Chloroprene	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	0.29	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.11	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.14	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.24	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.45	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.13	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.096	ug/kg	
123-91-1	1,4-Dioxane	ND	130	86	ug/kg	
141-78-6	Ethyl Acetate	ND	5.0	1.9	ug/kg	

Method Blank Summary

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Job Number: JA58900

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
VX4579-MB2	X108393.D	1	10/27/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-7

CAS No.	Compound	Result	RL	MDL	Units	Q
60-29-7	Ethyl Ether	ND	5.0	0.33	ug/kg	
97-63-2	Ethyl methacrylate	ND	10	0.13	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.37	ug/kg	
110-54-3	Hexane	ND	5.0	0.15	ug/kg	
78-83-1	Isobutyl alcohol	ND	50	12	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.52	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	0.82	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.28	ug/kg	
80-62-6	Methyl methacrylate	ND	10	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.81	ug/kg	
74-95-3	Methylene bromide	ND	5.0	0.18	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.22	ug/kg	
79-46-9	2-Nitropropane	ND	10	1.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.26	ug/kg	
100-42-5	Styrene	ND	5.0	0.11	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.29	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.15	ug/kg	
108-88-3	Toluene	ND	1.0	0.29	ug/kg	
108-70-3	1,3,5-Trichlorobenzene	ND	5.0		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.19	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.53	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.32	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.43	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.36	ug/kg	
108-05-4	Vinyl Acetate	ND	10	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.18	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	0.47	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	103% 67-127%
17060-07-0	1,2-Dichloroethane-D4	113% 65-132%
2037-26-5	Toluene-D8	111% 74-129%

Method Blank Summary

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Job Number: JA58900

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
VX4579-MB2	X108393.D	1	10/27/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-7

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	105% 62-138%

5.1.6

5

Blank Spike Summary

Page 1 of 1

Job Number: JA58900**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
EH4372-BS	H100517.D	1	10/20/10	KLS	n/a	n/a	EH4372

The QC reported here applies to the following samples:

Method: DAI BY GC/MS 8260SIM

JA58900-5, JA58900-6

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
107-21-1	Ethylene Glycol	5	2.8	57	50-150

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	145%	50-150%

5.2.1
5

Blank Spike Summary

Job Number: JA58900
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
EH4374-BS	H100574.D	1	10/26/10	KLS	n/a	n/a	EH4374

The QC reported here applies to the following samples: Method: DAI BY GC/MS 8260SIM

JA58900-3, JA58900-9

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
107-21-1	Ethylene Glycol	5	3.2	64	39-120

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	73%	50-150%

5.2.2
5

Blank Spike Summary

Job Number: JA58900
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
EH4374-BS2	H100590.D	1	10/27/10	KLS	n/a	n/a	EH4374

The QC reported here applies to the following samples: Method: DAI BY GC/MS 8260SIM

JA58900-1, JA58900-2, JA58900-4, JA58900-7, JA58900-8, JA58900-10, JA58900-11, JA58900-12, JA58900-14

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
107-21-1	Ethylene Glycol	5	2.9	58	39-120

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	134%	50-150%

Blank Spike Summary

Page 1 of 3

Job Number: JA58900**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
VX4579-BS	X108349.D	1	10/26/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-13, JA58900-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	41.7	83	45-168
75-05-8	Acetonitrile	500	438	88	60-143
107-02-8	Acrolein	500	466	93	20-198
107-13-1	Acrylonitrile	250	223	89	61-140
107-05-1	Allyl chloride	50	47.1	94	60-141
71-43-2	Benzene	50	46.9	94	78-120
100-44-7	Benzyl Chloride		47.6		50-150 ^a
74-97-5	Bromochloromethane	50	52.1	104	76-123
75-27-4	Bromodichloromethane	50	57.4	115	76-129
75-25-2	Bromoform	50	61.5	123	70-141
74-83-9	Bromomethane	50	38.0	76	57-142
78-93-3	2-Butanone (MEK)	50	50.8	102	59-140
71-36-3	n-Butyl Alcohol	2500	2630	105	58-145
104-51-8	n-Butylbenzene	50	50.7	101	64-129
135-98-8	sec-Butylbenzene	50	49.0	98	73-123
98-06-6	tert-Butylbenzene	50	49.5	99	71-128
75-15-0	Carbon disulfide	50	44.2	88	64-140
56-23-5	Carbon tetrachloride	50	61.0	122	66-151
108-90-7	Chlorobenzene	50	50.5	101	80-117
75-00-3	Chloroethane	50	44.3	89	60-142
67-66-3	Chloroform	50	49.6	99	75-122
74-87-3	Chloromethane	50	38.6	77	56-140
126-99-8	Chloroprene	50	51.1	102	69-139
95-49-8	o-Chlorotoluene	50	49.3	99	72-123
96-12-8	1,2-Dibromo-3-chloropropane	50	58.4	117	65-136
124-48-1	Dibromochloromethane	50	54.3	109	76-136
106-93-4	1,2-Dibromoethane	50	54.0	108	81-124
75-34-3	1,1-Dichloroethane	50	45.8	92	73-124
107-06-2	1,2-Dichloroethane	50	60.4	121	75-137
75-35-4	1,1-Dichloroethene	50	45.3	91	66-130
156-59-2	cis-1,2-Dichloroethene	50	44.3	89	73-121
156-60-5	trans-1,2-Dichloroethene	50	42.0	84	74-123
78-87-5	1,2-Dichloropropane	50	49.8	100	78-121
10061-01-5	cis-1,3-Dichloropropene	50	53.7	107	81-124
10061-02-6	trans-1,3-Dichloropropene	50	55.2	110	78-130
123-91-1	1,4-Dioxane	1250	1130	90	54-157

Blank Spike Summary

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Job Number: JA58900

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
VX4579-BS	X108349.D	1	10/26/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-13, JA58900-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
106-89-8	Epichlorohydrin	250	254	102	62-138
141-78-6	Ethyl Acetate	50	53.8	108	60-140
60-29-7	Ethyl Ether	50	49.7	99	69-130
97-63-2	Ethyl methacrylate	50	52.1	104	72-128
100-41-4	Ethylbenzene	50	46.8	94	81-121
110-54-3	Hexane	50	37.4	75	52-144
78-83-1	Isobutyl alcohol	500	444	89	55-150
98-82-8	Isopropylbenzene	50	47.2	94	67-136
79-20-9	Methyl Acetate	50	43.4	87	59-149
1634-04-4	Methyl Tert Butyl Ether	100	93.3	94	75-124
80-62-6	Methyl methacrylate	50	52.8	106	70-134
108-10-1	4-Methyl-2-pentanone(MIBK)	50	57.3	115	64-142
74-95-3	Methylene bromide	50	60.2	120	79-126
75-09-2	Methylene chloride	50	45.2	90	69-123
79-46-9	2-Nitropropane	50	145	290* b	45-167
103-65-1	n-Propylbenzene	50	45.2	90	74-125
100-42-5	Styrene	50	47.8	96	79-127
630-20-6	1,1,1,2-Tetrachloroethane	50	52.5	105	80-128
79-34-5	1,1,2,2-Tetrachloroethane	50	51.4	103	71-123
127-18-4	Tetrachloroethene	50	52.6	105	73-134
108-88-3	Toluene	50	49.6	99	79-122
108-70-3	1,3,5-Trichlorobenzene	50	55.5	111	70-130
71-55-6	1,1,1-Trichloroethane	50	54.0	108	72-136
79-00-5	1,1,2-Trichloroethane	50	56.1	112	76-123
79-01-6	Trichloroethene	50	54.8	110	80-124
96-18-4	1,2,3-Trichloropropane	50	52.7	105	69-121
95-63-6	1,2,4-Trimethylbenzene	50	47.7	95	75-122
108-67-8	1,3,5-Trimethylbenzene	50	47.1	94	73-124
108-05-4	Vinyl Acetate	50	67.2	134* b	58-131
75-01-4	Vinyl chloride	50	40.9	82	59-145
1330-20-7	Xylene (total)	150	141	94	80-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	67-127%

Blank Spike Summary

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Job Number: JA58900

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
VX4579-BS	X108349.D	1	10/26/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-13, JA58900-14

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	104%	65-132%
2037-26-5	Toluene-D8	110%	74-129%
460-00-4	4-Bromofluorobenzene	110%	62-138%

(a) Advisory control limits.

(b) High percent recoveries and no associated positive found in the QC batch.

Blank Spike Summary

Page 1 of 3

Job Number: JA58900**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
VX4579-BS2	X108394.D	1	10/27/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	60.9	122	45-168
75-05-8	Acetonitrile	500	480	96	60-143
107-02-8	Acrolein	500	402	80	20-198
107-13-1	Acrylonitrile	250	261	104	61-140
107-05-1	Allyl chloride	50	47.6	95	60-141
71-43-2	Benzene	50	45.5	91	78-120
74-97-5	Bromochloromethane	50	52.7	105	76-123
75-27-4	Bromodichloromethane	50	55.9	112	76-129
75-25-2	Bromoform	50	58.7	117	70-141
74-83-9	Bromomethane	50	36.7	73	57-142
78-93-3	2-Butanone (MEK)	50	64.4	129	59-140
71-36-3	n-Butyl Alcohol	2500	3140	126	58-145
104-51-8	n-Butylbenzene	50	46.9	94	64-129
135-98-8	sec-Butylbenzene	50	44.0	88	73-123
98-06-6	tert-Butylbenzene	50	43.7	87	71-128
75-15-0	Carbon disulfide	50	43.5	87	64-140
56-23-5	Carbon tetrachloride	50	53.5	107	66-151
108-90-7	Chlorobenzene	50	46.7	93	80-117
75-00-3	Chloroethane	50	46.5	93	60-142
67-66-3	Chloroform	50	49.6	99	75-122
74-87-3	Chloromethane	50	39.7	79	56-140
126-99-8	Chloroprene	50	53.9	108	69-139
95-49-8	o-Chlorotoluene	50	44.3	89	72-123
96-12-8	1,2-Dibromo-3-chloropropane	50	62.1	124	65-136
124-48-1	Dibromochloromethane	50	52.4	105	76-136
106-93-4	1,2-Dibromoethane	50	52.7	105	81-124
75-34-3	1,1-Dichloroethane	50	46.9	94	73-124
107-06-2	1,2-Dichloroethane	50	59.0	118	75-137
75-35-4	1,1-Dichloroethene	50	43.5	87	66-130
156-59-2	cis-1,2-Dichloroethene	50	44.6	89	73-121
156-60-5	trans-1,2-Dichloroethene	50	40.4	81	74-123
78-87-5	1,2-Dichloropropane	50	50.2	100	78-121
10061-01-5	cis-1,3-Dichloropropene	50	53.9	108	81-124
10061-02-6	trans-1,3-Dichloropropene	50	54.8	110	78-130
123-91-1	1,4-Dioxane	1250	1110	89	54-157
141-78-6	Ethyl Acetate	50	61.1	122	60-140

5.2.5
5

Blank Spike Summary

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Job Number: JA58900

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
VX4579-BS2	X108394.D	1	10/27/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
60-29-7	Ethyl Ether	50	54.6	109	69-130
97-63-2	Ethyl methacrylate	50	53.8	108	72-128
100-41-4	Ethylbenzene	50	42.8	86	81-121
110-54-3	Hexane	50	44.4	89	52-144
78-83-1	Isobutyl alcohol	500	426	85	55-150
98-82-8	Isopropylbenzene	50	41.3	83	67-136
79-20-9	Methyl Acetate	50	49.6	99	59-149
1634-04-4	Methyl Tert Butyl Ether	100	102	102	75-124
80-62-6	Methyl methacrylate	50	56.5	113	70-134
108-10-1	4-Methyl-2-pentanone(MIBK)	50	62.3	125	64-142
74-95-3	Methylene bromide	50	60.9	122	79-126
75-09-2	Methylene chloride	50	46.6	93	69-123
79-46-9	2-Nitropropane	50	128	256* a	45-167
103-65-1	n-Propylbenzene	50	40.0	80	74-125
100-42-5	Styrene	50	44.4	89	79-127
630-20-6	1,1,1,2-Tetrachloroethane	50	49.8	100	80-128
79-34-5	1,1,2,2-Tetrachloroethane	50	51.3	103	71-123
127-18-4	Tetrachloroethene	50	46.1	92	73-134
108-88-3	Toluene	50	46.4	93	79-122
108-70-3	1,3,5-Trichlorobenzene	50	53.0	106	70-130
71-55-6	1,1,1-Trichloroethane	50	50.3	101	72-136
79-00-5	1,1,2-Trichloroethane	50	55.8	112	76-123
79-01-6	Trichloroethene	50	49.5	99	80-124
96-18-4	1,2,3-Trichloropropane	50	53.3	107	69-121
95-63-6	1,2,4-Trimethylbenzene	50	44.2	88	75-122
108-67-8	1,3,5-Trimethylbenzene	50	42.4	85	73-124
108-05-4	Vinyl Acetate	50	72.8	146* a	58-131
75-01-4	Vinyl chloride	50	38.7	77	59-145
1330-20-7	Xylene (total)	150	129	86	80-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	67-127%
17060-07-0	1,2-Dichloroethane-D4	110%	65-132%
2037-26-5	Toluene-D8	109%	74-129%

Blank Spike Summary

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Job Number: JA58900

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
VX4579-BS2	X108394.D	1	10/27/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-7

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	103%	62-138%

(a) High percent recoveries and no associated positive found in the QC batch.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 3

Job Number: JA58900**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
VV4578-BS	V108522.D	1	10/21/10	JLI	n/a	n/a	VV4578
VV4578-BSD	V108523.D	1	10/21/10	JLI	n/a	n/a	VV4578

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-5, JA58900-6, JA58900-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	54.2	108	52.7	105	3	51-151/30
75-05-8	Acetonitrile	500	597	119	570	114	5	53-136/30
107-02-8	Acrolein	500	633	127	643	129	2	46-188/30
107-13-1	Acrylonitrile	250	300	120	309	124	3	61-131/30
107-05-1	Allyl chloride	50	50.9	102	49.9	100	2	57-130/30
71-43-2	Benzene	50	54.1	108	53.9	108	0	75-122/30
100-44-7	Benzyl Chloride	50	65.0	130	67.0	134	3	20-157/30
74-97-5	Bromochloromethane	50	52.5	105	52.2	104	1	78-124/30
75-27-4	Bromodichloromethane	50	57.6	115	58.1	116	1	77-128/30
75-25-2	Bromoform	50	54.9	110	56.0	112	2	67-141/30
74-83-9	Bromomethane	50	46.6	93	46.2	92	1	53-152/30
78-93-3	2-Butanone (MEK)	50	62.4	125	61.0	122	2	64-130/30
71-36-3	n-Butyl Alcohol	2500	3000	120	3180	127	6	52-140/30
104-51-8	n-Butylbenzene	50	54.9	110	54.1	108	1	70-126/30
135-98-8	sec-Butylbenzene	50	49.2	98	47.7	95	3	72-127/30
98-06-6	tert-Butylbenzene	50	48.7	97	46.8	94	4	73-131/30
75-15-0	Carbon disulfide	50	55.5	111	54.0	108	3	59-140/30
56-23-5	Carbon tetrachloride	50	59.3	119	58.0	116	2	75-148/30
108-90-7	Chlorobenzene	50	51.9	104	51.1	102	2	76-124/30
75-00-3	Chloroethane	50	48.9	98	48.4	97	1	54-147/30
67-66-3	Chloroform	50	52.7	105	52.3	105	1	77-124/30
74-87-3	Chloromethane	50	46.5	93	47.5	95	2	46-144/30
126-99-8	Chloroprene	50	45.5	91	44.1	88	3	72-138/30
95-49-8	o-Chlorotoluene	50	48.3	97	48.0	96	1	72-124/30
96-12-8	1,2-Dibromo-3-chloropropane	50	59.3	119	60.2	120	2	64-134/30
124-48-1	Dibromochloromethane	50	51.3	103	52.2	104	2	76-132/30
106-93-4	1,2-Dibromoethane	50	54.1	108	54.4	109	1	75-130/30
75-34-3	1,1-Dichloroethane	50	55.7	111	55.4	111	1	72-124/30
107-06-2	1,2-Dichloroethane	50	64.0	128	63.8	128	0	66-150/30
75-35-4	1,1-Dichloroethene	50	50.4	101	49.2	98	2	61-132/30
156-59-2	cis-1,2-Dichloroethene	50	57.0	114	57.0	114	0	71-119/30
156-60-5	trans-1,2-Dichloroethene	50	45.4	91	44.5	89	2	71-123/30
78-87-5	1,2-Dichloropropane	50	55.2	110	54.7	109	1	75-120/30
10061-01-5	cis-1,3-Dichloropropene	50	57.7	115	58.2	116	1	77-124/30
10061-02-6	trans-1,3-Dichloropropene	50	60.4	121	61.4	123	2	75-132/30
123-91-1	1,4-Dioxane	1250	1430	114	1420	114	1	57-147/30

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JA58900

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
VV4578-BS	V108522.D	1	10/21/10	JLI	n/a	n/a	VV4578
VV4578-BSD	V108523.D	1	10/21/10	JLI	n/a	n/a	VV4578

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-5, JA58900-6, JA58900-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
106-89-8	Epichlorohydrin	250	287	115	282	113	2	63-128/30
141-78-6	Ethyl Acetate	50	49.4	99	54.1	108	9	56-140/30
60-29-7	Ethyl Ether	50	54.9	110	53.9	108	2	66-133/30
97-63-2	Ethyl methacrylate	50	54.6	109	56.7	113	4	70-126/30
100-41-4	Ethylbenzene	50	52.4	105	50.8	102	3	77-124/30
110-54-3	Hexane	50	46.9	94	44.7	89	5	55-134/30
78-83-1	Isobutyl alcohol	500	489	98	506	101	3	59-142/30
98-82-8	Isopropylbenzene	50	47.2	94	46.3	93	2	60-136/30
79-20-9	Methyl Acetate	50	51.8	104	54.9	110	6	57-139/30
1634-04-4	Methyl Tert Butyl Ether	50	49.8	100	50.9	102	2	72-127/30
80-62-6	Methyl methacrylate	50	53.3	107	56.5	113	6	66-135/30
108-10-1	4-Methyl-2-pentanone(MIBK)	50	56.7	113	58.7	117	3	63-135/30
74-95-3	Methylene bromide	50	57.1	114	58.2	116	2	79-126/30
75-09-2	Methylene chloride	50	42.5	85	42.8	86	1	69-122/30
79-46-9	2-Nitropropane	50	57.0	114	62.6	125	9	51-160/30
103-65-1	n-Propylbenzene	50	46.4	93	45.6	91	2	72-130/30
100-42-5	Styrene	50	50.1	100	50.1	100	0	78-126/30
630-20-6	1,1,1,2-Tetrachloroethane	50	53.5	107	52.7	105	2	78-133/30
79-34-5	1,1,2,2-Tetrachloroethane	50	49.2	98	52.7	105	7	66-125/30
127-18-4	Tetrachloroethene	50	41.4	83	40.4	81	2	70-136/30
108-88-3	Toluene	50	48.3	97	47.0	94	3	76-126/30
108-70-3	1,3,5-Trichlorobenzene	50	51.1	102	51.1	102	0	70-130/30
71-55-6	1,1,1-Trichloroethane	50	56.3	113	54.5	109	3	77-136/30
79-00-5	1,1,2-Trichloroethane	50	55.3	111	55.5	111	0	75-123/30
79-01-6	Trichloroethene	50	54.5	109	53.5	107	2	79-126/30
96-18-4	1,2,3-Trichloropropane	50	49.3	99	51.3	103	4	64-121/30
95-63-6	1,2,4-Trimethylbenzene	50	46.9	94	46.5	93	1	74-126/30
108-67-8	1,3,5-Trimethylbenzene	50	47.5	95	46.6	93	2	74-127/30
108-05-4	Vinyl Acetate	50	47.1	94	46.3	93	2	60-128/30
75-01-4	Vinyl chloride	50	51.5	103	50.5	101	2	56-146/30
1330-20-7	Xylene (total)	150	157	105	154	103	2	77-125/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	99%	76-120%

Blank Spike/Blank Spike Duplicate Summary

Page 3 of 3

Job Number: JA58900

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
VV4578-BS	V108522.D	1	10/21/10	JLI	n/a	n/a	VV4578
VV4578-BSD	V108523.D	1	10/21/10	JLI	n/a	n/a	VV4578

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-5, JA58900-6, JA58900-15

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4	107%	104%	64-135%
2037-26-5	Toluene-D8	107%	107%	76-117%
460-00-4	4-Bromofluorobenzene	98%	96%	72-122%

5.3.1

5

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: JA58900**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
JA58986-1MS	H100518.D	1	10/20/10	KLS	n/a	n/a	EH4372
JA58986-1MSD	H100519.D	1	10/20/10	KLS	n/a	n/a	EH4372
JA58986-1	H100520.D	1	10/20/10	KLS	n/a	n/a	EH4372

The QC reported here applies to the following samples:

Method: DAI BY GC/MS 8260SIM

JA58900-5, JA58900-6

CAS No.	Compound	JA58986-1 mg/l	Spike Q	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
107-21-1	Ethylene Glycol	ND	5	2.4	47* a	2.8	55	15	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JA58986-1	Limits
111-27-3	Hexanol	86%	77%	68%	50-150%

(a) Outside in house control limits.

5.4.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: JA58900**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
JA58900-3MS	H100591.D	1	10/27/10	KLS	n/a	n/a	EH4374
JA58900-3MSD	H100592.D	1	10/27/10	KLS	n/a	n/a	EH4374
JA58900-3	H100577.D	1	10/26/10	KLS	n/a	n/a	EH4374

The QC reported here applies to the following samples:

Method: DAI BY GC/MS 8260SIM

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-14

CAS No.	Compound	JA58900-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
107-21-1	Ethylene Glycol	ND		6.670	2.41	36* ^a	2.25	34* ^a	7	39-156/57

CAS No.	Surrogate Recoveries	MS	MSD	JA58900-3	Limits
111-27-3	Hexanol	118%	112%	119%	50-150%

(a) Outside control limits due to matrix interference.

5.4.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: JA58900**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
JA58900-3MS	X108353.D	1	10/26/10	JTP	n/a	n/a	VX4579
JA58900-3MSD	X108354.D	1	10/26/10	JTP	n/a	n/a	VX4579
JA58900-3	X108352.D	1	10/26/10	JTP	n/a	n/a	VX4579
JA58900-3 ^a	X108358.D	1	10/26/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-13, JA58900-14

CAS No.	Compound	JA58900-3 ug/kg	Spike Q	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	31.8	59.1	186* ^b	41.7	127	35* ^b	26-178/32
75-05-8	Acetonitrile	ND	318	215	68	214	65	0	32-149/31
107-02-8	Acrolein	ND	318	216	68	219	67	1	1-182/41
107-13-1	Acrylonitrile	ND	159	130	82	114	70	13	37-147/26
107-05-1	Allyl chloride	ND	31.8	14.3	45	12.8	39	11	22-159/29
71-43-2	Benzene	ND	31.8	15.8	50	14.4	44	9	41-136/24
100-44-7	Benzyl Chloride	ND		25.5		15.2		51* ^b	-/28
74-97-5	Bromochloromethane	ND	31.8	21.4	67	18.7	57	13	45-135/23
75-27-4	Bromodichloromethane	ND	31.8	22.4	70	20.2	62	10	37-150/23
75-25-2	Bromoform	ND	31.8	31.4	99	24.2	74	26* ^b	31-153/24
74-83-9	Bromomethane	ND	31.8	14.3	45	16.2	49	12	4-154/32
78-93-3	2-Butanone (MEK)	ND	31.8	39.9	125	30.7	94	26	32-159/28
71-36-3	n-Butyl Alcohol	ND	1590	1420	89	1400	85	1	21-154/35
104-51-8	n-Butylbenzene	ND	31.8	12.8	40	8.5	26	40* ^b	4-165/35
135-98-8	sec-Butylbenzene	ND	31.8	23.3	73	16.2	49	36* ^b	10-161/32
98-06-6	tert-Butylbenzene	ND	31.8	27.2	85	20.7	63	27	14-161/30
75-15-0	Carbon disulfide	ND	31.8	11.9	37	10.3	31	14	27-148/28
56-23-5	Carbon tetrachloride	ND	31.8	18.2	57	17.7	54	3	27-165/26
108-90-7	Chlorobenzene	ND	31.8	16.0	50	12.1	37	28* ^b	33-140/26
75-00-3	Chloroethane	ND	31.8	14.3	45	17.6	54	21	5-151/33
67-66-3	Chloroform	ND	31.8	17.9	56	16.3	50	9	44-135/24
74-87-3	Chloromethane	ND	31.8	13.0	41	15.5	47	18	27-149/27
126-99-8	Chloroprene	ND	31.8	10.8	34	16.3	50	41* ^b	26-159/27
95-49-8	o-Chlorotoluene	ND	31.8	23.1	73	15.4	47	40* ^b	16-156/31
96-12-8	1,2-Dibromo-3-chloropropane	ND	31.8	48.7	153	31.8	97	42* ^b	24-154/27
124-48-1	Dibromochloromethane	ND	31.8	26.2	82	21.1	64	22	35-154/23
106-93-4	1,2-Dibromoethane	ND	31.8	22.9	72	17.0	52	30* ^b	41-140/23
75-34-3	1,1-Dichloroethane	ND	31.8	16.0	50	14.7	45	8	45-135/24
107-06-2	1,2-Dichloroethane	ND	31.8	25.9	81	21.7	66	18	44-143/23
75-35-4	1,1-Dichloroethene	ND	31.8	13.0	41	11.8	36	10	32-149/26
156-59-2	cis-1,2-Dichloroethene	ND	31.8	14.9	47	13.2	40* ^b	12	42-135/25
156-60-5	trans-1,2-Dichloroethene	ND	31.8	11.4	36* ^b	10.0	31* ^b	13	37-140/25
78-87-5	1,2-Dichloropropane	ND	31.8	19.4	61	17.5	53	10	45-136/23
10061-01-5	cis-1,3-Dichloropropene	ND	31.8	18.1	57	13.8	42	27* ^b	37-143/26
10061-02-6	trans-1,3-Dichloropropene	ND	31.8	17.0	53	11.6	35	38* ^b	34-148/26
123-91-1	1,4-Dioxane	ND	796	524	66	650	79	21	36-170/33

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: JA58900

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
JA58900-3MS	X108353.D	1	10/26/10	JTP	n/a	n/a	VX4579
JA58900-3MSD	X108354.D	1	10/26/10	JTP	n/a	n/a	VX4579
JA58900-3	X108352.D	1	10/26/10	JTP	n/a	n/a	VX4579
JA58900-3 ^a	X108358.D	1	10/26/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-13, JA58900-14

CAS No.	Compound	JA58900-3 ug/kg	Spike Q	MS ug/kg	MS %	MSD ug/kg	MSD %	Limits RPD	Rec/RPD
106-89-8	Epichlorohydrin	ND	159	92.2	58	80.6	49	13	26-163/26
141-78-6	Ethyl Acetate	ND	31.8	28.2	89	24.1	74	16	22-157/33
60-29-7	Ethyl Ether	ND	31.8	23.9	75	20.3	62	16	43-134/23
97-63-2	Ethyl methacrylate	ND	31.8	23.8	75	18.0	55	28	21-158/32
100-41-4	Ethylbenzene	ND	31.8	14.4	45	11.8	36	20	28-147/27
110-54-3	Hexane	ND	31.8	6.2	19	9.8	30	45* ^b	4-166/31
78-83-1	Isobutyl alcohol	ND	318	141	44	119	36	17	33-146/29
98-82-8	Isopropylbenzene	ND	31.8	22.9	72	16.7	51	31* ^b	19-157/30
79-20-9	Methyl Acetate	ND	31.8	23.3	73	21.3	65	9	40-177/29
1634-04-4	Methyl Tert Butyl Ether	ND	63.6	46.9	74	45.6	72	3	48-135/22
80-62-6	Methyl methacrylate	ND	31.8	27.6	87	21.0	64	27* ^b	37-157/26
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	31.8	33.9	107	27.6	84	20	31-158/26
74-95-3	Methylene bromide	ND	31.8	25.3	79	20.5	63	21	46-137/22
75-09-2	Methylene chloride	ND	31.8	17.5	55	15.7	48	11	39-138/24
79-46-9	2-Nitropropane	ND	31.8	70.4	221* ^b	65.8	201* ^b	7	9-183/29
103-65-1	n-Propylbenzene	ND	31.8	16.8	53	11.2	34	40* ^b	13-158/31
100-42-5	Styrene	ND	31.8	13.8	43	9.4	29	38* ^b	23-156/29
630-20-6	1,1,1,2-Tetrachloroethane	ND	31.8	24.1	76	22.5	69	7	36-147/24
79-34-5	1,1,2,2-Tetrachloroethane	ND	31.8	43.9	138* ^b	30.1	92	37* ^b	35-136/25
127-18-4	Tetrachloroethene	ND	31.8	15.7	49	13.7	42	14	27-164/28
108-88-3	Toluene	ND	31.8	14.5	46	12.6	38	14	32-145/26
108-70-3	1,3,5-Trichlorobenzene	ND	31.8	20.0	63	9.1	28* ^b	75* ^b	60-140/30
71-55-6	1,1,1-Trichloroethane	ND	31.8	16.4	52	15.7	48	4	36-150/24
79-00-5	1,1,2-Trichloroethane	ND	31.8	26.0	82	21.4	65	19	37-147/23
79-01-6	Trichloroethene	ND	31.8	14.7	46	13.6	42	8	34-149/25
96-18-4	1,2,3-Trichloropropane	ND	31.8	47.4	149* ^b	32.8	100	36* ^b	38-143/23
95-63-6	1,2,4-Trimethylbenzene	ND	31.8	22.8	72	14.4	44	45* ^b	13-158/36
108-67-8	1,3,5-Trimethylbenzene	ND	31.8	25.2	79	17.8	54	34* ^b	15-157/30
108-05-4	Vinyl Acetate	ND	31.8	27.9	88	25.8	79	8	20-144/35
75-01-4	Vinyl chloride	ND	31.8	12.4	39	14.9	45	18	29-152/26
1330-20-7	Xylene (total)	ND	95.5	46.7	49	37.4	38	22	24-150/28

CAS No.	Surrogate Recoveries	MS	MSD	JA58900-3	JA58900-3	Limits
1868-53-7	Dibromofluoromethane	105%	98%	99%	142%* ^c	67-127%

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JA58900

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
JA58900-3MS	X108353.D	1	10/26/10	JTP	n/a	n/a	VX4579
JA58900-3MSD	X108354.D	1	10/26/10	JTP	n/a	n/a	VX4579
JA58900-3	X108352.D	1	10/26/10	JTP	n/a	n/a	VX4579
JA58900-3 ^a	X108358.D	1	10/26/10	JTP	n/a	n/a	VX4579

The QC reported here applies to the following samples:

Method: SW846 8260B

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-13, JA58900-14

CAS No.	Surrogate Recoveries	MS	MSD	JA58900-3	JA58900-3	Limits
17060-07-0	1,2-Dichloroethane-D4	110%	101%	102%	110%	65-132%
2037-26-5	Toluene-D8	107%	105%	106%	85%	74-129%
460-00-4	4-Bromofluorobenzene	131%	121%	147%* ^c	184%* ^c	62-138%

(a) Confirmation run for internal standard areas and Surrogate recovery.

(b) Outside control limits due to matrix interference.

(c) Outside control limits due to sample matrix.

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JA58900**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA**Sample:** VV4452-BFB**Injection Date:** 08/04/10**Lab File ID:** V105727.D**Injection Time:** 22:17**Instrument ID:** GCMSV

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	10900	15.7	Pass
75	30.0 - 60.0% of mass 95	30056	43.3	Pass
95	Base peak, 100% relative abundance	69464	100.0	Pass
96	5.0 - 9.0% of mass 95	4448	6.4	Pass
173	Less than 2.0% of mass 174	132	0.19 (0.19) ^a	Pass
174	50.0 - 120.0% of mass 95	69314	99.8	Pass
175	5.0 - 9.0% of mass 174	5197	7.5 (7.5) ^a	Pass
176	95.0 - 101.0% of mass 174	66866	96.3 (96.5) ^a	Pass
177	5.0 - 9.0% of mass 176	4448	6.4 (6.7) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

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
VV4452-IC4452	V105728.D	08/04/10	22:46	00:29	Initial cal 0.5
ZZZZZZ	V105728.D	08/04/10	22:46	00:29	(unrelated sample)
VV4452-IC4452	V105729.D	08/04/10	23:17	01:00	Initial cal 1
ZZZZZZ	V105729.D	08/04/10	23:17	01:00	(unrelated sample)
VV4452-IC4452	V105730.D	08/04/10	23:49	01:32	Initial cal 2
VV4452-IC4452	V105731.D	08/05/10	00:20	02:03	Initial cal 5
VV4452-IC4452	V105732.D	08/05/10	00:51	02:34	Initial cal 10
VV4452-IC4452	V105733.D	08/05/10	01:23	03:06	Initial cal 20
VV4452-ICC4452	V105734.D	08/05/10	01:53	03:36	Initial cal 50
VV4452-IC4452	V105735.D	08/05/10	02:24	04:07	Initial cal 100
VV4452-IC4452	V105736.D	08/05/10	02:55	04:38	Initial cal 200
VV4452-ICV4452	V105739.D	08/05/10	04:28	06:11	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JA58900**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA**Sample:** VV4577-BFB**Injection Date:** 10/21/10**Lab File ID:** V108504.D**Injection Time:** 09:56**Instrument ID:** GCMSV

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	12819	17.5	Pass
75	30.0 - 60.0% of mass 95	33696	46.1	Pass
95	Base peak, 100% relative abundance	73120	100.0	Pass
96	5.0 - 9.0% of mass 95	4946	6.76	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	68581	93.8	Pass
175	5.0 - 9.0% of mass 174	5079	6.95 (7.41) ^a	Pass
176	95.0 - 101.0% of mass 174	68453	93.6 (99.8) ^a	Pass
177	5.0 - 9.0% of mass 176	4363	5.97 (6.37) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

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
VV4577-CC4452	V108506.D	10/21/10	11:00	01:04	Continuing cal 20
VV4577-MB1	V108507.D	10/21/10	11:29	01:33	Method Blank
VV4577-BS1	V108508.D	10/21/10	12:00	02:04	Blank Spike
VV4577-IC4452	V108510.D	10/21/10	13:08	03:12	Initial cal 5
VV4577-IC4452	V108511.D	10/21/10	13:38	03:42	Initial cal 10
VV4577-IC4452	V108512.D	10/21/10	14:09	04:13	Initial cal 20
VV4577-IC4452	V108513.D	10/21/10	14:38	04:42	Initial cal 50
VV4577-ICV4452	V108514.D	10/21/10	15:08	05:12	Initial cal verification 50
VV4577-IC4452	V108515.D	10/21/10	15:37	05:41	Initial cal 100
VV4577-IC4452	V108516.D	10/21/10	16:08	06:12	Initial cal 200
VV4578-MB1	V108521.D	10/21/10	17:07	07:11	Method Blank
VV4578-BS	V108522.D	10/21/10	17:37	07:41	Blank Spike
VV4578-BSD	V108523.D	10/21/10	18:08	08:12	Blank Spike Duplicate
JA58900-15	V108525.D	10/21/10	19:09	09:13	TRIP BLANK
ZZZZZZ	V108525T.D	10/21/10	19:09	09:13	(unrelated sample)
JA58900-6	V108526.D	10/21/10	19:40	09:44	BBNPP-PB
ZZZZZZ	V108526T.D	10/21/10	19:40	09:44	(unrelated sample)
JA58900-5	V108527.D	10/21/10	20:11	10:15	BBNPP-C-EB
ZZZZZZ	V108527T.D	10/21/10	20:11	10:15	(unrelated sample)

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JA58900**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA**Sample:** VX4516-BFB**Injection Date:** 09/14/10**Lab File ID:** X106943.D**Injection Time:** 08:52**Instrument ID:** GCMSX

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	6740	18.1	Pass
75	30.0 - 60.0% of mass 95	17354	46.5	Pass
95	Base peak, 100% relative abundance	37320	100.0	Pass
96	5.0 - 9.0% of mass 95	2449	6.56	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	31936	85.6	Pass
175	5.0 - 9.0% of mass 174	2469	6.62 (7.73) ^a	Pass
176	95.0 - 101.0% of mass 174	31277	83.8 (97.9) ^a	Pass
177	5.0 - 9.0% of mass 176	2136	5.72 (6.83) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

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
VX4516-IC4516	X106944.D	09/14/10	09:27	00:35	Initial cal 1
VX4516-IC4516	X106945.D	09/14/10	10:06	01:14	Initial cal 5
VX4516-IC4516	X106946.D	09/14/10	10:45	01:53	Initial cal 2
VX4516-IC4516	X106947.D	09/14/10	11:16	02:24	Initial cal 0.5
VX4516-IC4516	X106948.D	09/14/10	11:45	02:53	Initial cal 10
VX4516-IC4516	X106949.D	09/14/10	12:14	03:22	Initial cal 20
VX4516-ICC4516	X106950.D	09/14/10	12:44	03:52	Initial cal 50
VX4516-ICV4516	X106951.D	09/14/10	13:14	04:22	Initial cal verification 50
VX4516-IC4516	X106952.D	09/14/10	13:43	04:51	Initial cal 100
VX4516-IC4516	X106953.D	09/14/10	14:12	05:20	Initial cal 200

Instrument Performance Check (BFB)

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VX4579-BFB

Injection Date: 10/26/10

Lab File ID: X108345.D

Injection Time: 11:37

Instrument ID: GCMSX

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	11831	20.4	Pass
75	30.0 - 60.0% of mass 95	28914	50.0	Pass
95	Base peak, 100% relative abundance	57874	100.0	Pass
96	5.0 - 9.0% of mass 95	3920	6.77	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	44314	76.6	Pass
175	5.0 - 9.0% of mass 174	3676	6.35 (8.30) ^a	Pass
176	95.0 - 101.0% of mass 174	42650	73.7 (96.2) ^a	Pass
177	5.0 - 9.0% of mass 176	2767	4.78 (6.49) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

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
VX4579-CC4516	X108347.D	10/26/10	12:51	01:14	Continuing cal 20
VX4579-MB	X108348.D	10/26/10	13:21	01:44	Method Blank
VX4579-BS	X108349.D	10/26/10	14:02	02:25	Blank Spike
JA58900-13	X108351.D	10/26/10	15:10	03:33	T101410
ZZZZZZ	X108351T.D	10/26/10	15:10	03:33	(unrelated sample)
JA58900-3	X108352.D	10/26/10	15:39	04:02	BBNPP-R-C
ZZZZZZ	X108352T.D	10/26/10	15:39	04:02	(unrelated sample)
JA58900-3MS	X108353.D	10/26/10	16:33	04:56	Matrix Spike
JA58900-3MSD	X108354.D	10/26/10	17:02	05:25	Matrix Spike Duplicate
ZZZZZZ	X108356.D	10/26/10	18:01	06:24	(unrelated sample)
ZZZZZZ	X108357.D	10/26/10	18:30	06:53	(unrelated sample)
JA58900-3	X108358.D	10/26/10	18:59	07:22	BBNPP-R-C
JA58900-8	X108359.D	10/26/10	19:28	07:51	BBNPP-CW7-C
ZZZZZZ	X108359T.D	10/26/10	19:28	07:51	(unrelated sample)
JA58900-9	X108360.D	10/26/10	19:57	08:20	BBNPP-CW10-C
ZZZZZZ	X108360T.D	10/26/10	19:57	08:20	(unrelated sample)
JA58900-10	X108361.D	10/26/10	20:27	08:50	BBNPP-CW13-C
ZZZZZZ	X108361T.D	10/26/10	20:27	08:50	(unrelated sample)
JA58900-11	X108362.D	10/26/10	20:56	09:19	BBNPP-CW16-C
ZZZZZZ	X108362T.D	10/26/10	20:56	09:19	(unrelated sample)
JA58900-12	X108363.D	10/26/10	21:25	09:48	BBNPP-CW19-C
ZZZZZZ	X108363T.D	10/26/10	21:25	09:48	(unrelated sample)
JA58900-14	X108364.D	10/26/10	21:55	10:18	BBNPP-D1-CFD
ZZZZZZ	X108364T.D	10/26/10	21:55	10:18	(unrelated sample)

Instrument Performance Check (BFB)

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VX4579-BFB

Injection Date: 10/26/10

Lab File ID: X108345.D

Injection Time: 11:37

Instrument ID: GCMSX

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JA58900-1	X108365.D	10/26/10	22:24	10:47	BBNPP-D2
ZZZZZZ	X108365T.D	10/26/10	22:24	10:47	(unrelated sample)
JA58900-2	X108366.D	10/26/10	22:53	11:16	BBNPP-D1-C
ZZZZZZ	X108366T.D	10/26/10	22:53	11:16	(unrelated sample)
JA58900-4	X108367.D	10/26/10	23:22	11:45	BBNPP-CW22-C
ZZZZZZ	X108367T.D	10/26/10	23:22	11:45	(unrelated sample)

5.5.4

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Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JA58900**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA**Sample:** VX4579-BFB**Injection Date:** 10/27/10**Lab File ID:** X108390.D**Injection Time:** 13:46**Instrument ID:** GCMSX

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	14167	19.9	Pass
75	30.0 - 60.0% of mass 95	34610	48.5	Pass
95	Base peak, 100% relative abundance	71362	100.0	Pass
96	5.0 - 9.0% of mass 95	4935	6.92	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	56952	79.8	Pass
175	5.0 - 9.0% of mass 174	4580	6.42 (8.04) ^a	Pass
176	95.0 - 101.0% of mass 174	56005	78.5 (98.3) ^a	Pass
177	5.0 - 9.0% of mass 176	3743	5.25 (6.68) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

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
VX4579-CC4516	X108392.D	10/27/10	15:02	01:16	Continuing cal 20
VX4579-MB2	X108393.D	10/27/10	15:33	01:47	Method Blank
VX4579-BS2	X108394.D	10/27/10	16:10	02:24	Blank Spike
JA58900-7	X108396.D	10/27/10	17:19	03:33	BBNPP-CW4-C
ZZZZZZ	X108396T.D	10/27/10	17:19	03:33	(unrelated sample)

5.5.5
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Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	VV4577-CC4452	Injection Date:	10/21/10
Lab File ID:	V108506.D	Injection Time:	11:00
Instrument ID:	GCMSV	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	101723	7.44	278806	9.67	430843	10.62	430470	14.03	237362	16.65
Upper Limit ^a	203446	7.94	557612	10.17	861686	11.12	860940	14.53	474724	17.15
Lower Limit ^b	50862	6.94	139403	9.17	215422	10.12	215235	13.53	118681	16.15

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VV4577-MB1	111744	7.46	277915	9.67	419887	10.62	428033	14.04	215033	16.66
VV4577-BS1	93799	7.44	275961	9.67	428606	10.61	428294	14.03	238654	16.65
VV4578-MB1	90489	7.46	241123	9.68	376523	10.62	389769	14.04	193229	16.66
VV4578-BS	101084	7.44	259785	9.67	407231	10.61	411334	14.03	241313	16.65
VV4578-BSD	108393	7.44	261047	9.67	406621	10.61	415767	14.03	242909	16.65
JA58900-15	110240	7.46	268788	9.67	422095	10.62	434357	14.03	224565	16.66
ZZZZZZ	110240	7.46	268788	9.67	422095	10.62	434357	14.03	224565	16.66
JA58900-6	104742	7.46	273199	9.67	414381	10.62	431469	14.03	216935	16.66
ZZZZZZ	104742	7.46	273199	9.67	414381	10.62	431469	14.03	216935	16.66
JA58900-5	89018	7.47	263662	9.67	421554	10.62	421822	14.03	208907	16.66
ZZZZZZ	89018	7.47	263662	9.67	421554	10.62	421822	14.03	208907	16.66

IS 1 = Tert Butyl Alcohol-D9

IS 2 = Pentafluorobenzene

IS 3 = 1,4-Difluorobenzene

IS 4 = Chlorobenzene-D5

IS 5 = 1,4-Dichlorobenzene-d4

(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.

Volatile Internal Standard Area Summary

Page 1 of 2

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	VX4579-CC4516	Injection Date:	10/26/10
Lab File ID:	X108347.D	Injection Time:	12:51
Instrument ID:	GCMSX	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	52666	7.35	144787	10.05	198395	11.22	198755	15.43	99728	18.20
Upper Limit ^a	105332	7.85	289574	10.55	396790	11.72	397510	15.93	199456	18.70
Lower Limit ^b	26333	6.85	72394	9.55	99198	10.72	99378	14.93	49864	17.70

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VX4579-MB	55092	7.35	144318	10.04	191766	11.21	190315	15.43	96057	18.20
VX4579-BS	55100	7.36	144373	10.05	202723	11.21	206826	15.43	99946	18.20
JA58900-13	53738	7.35	150489	10.05	201696	11.22	195753	15.43	96193	18.20
ZZZZZZ	53738	7.35	150489	10.05	201696	11.22	195753	15.43	96193	18.20
JA58900-3	63733	7.35	146489	10.05	193790	11.21	161042	15.43	47991 ^c	18.20
ZZZZZZ	63733	7.35	146489	10.05	193790	11.21	161042	15.43	47991 [*]	18.20
JA58900-3MS	65235	7.35	139082	10.05	200186	11.22	185213	15.43	61482	18.20
JA58900-3MSD	62668	7.36	154941	10.05	215527	11.22	200694	15.43	76829	18.20
ZZZZZZ	68934	7.35	166124	10.05	221563	11.22	215107	15.43	105208	18.20
ZZZZZZ	60851	7.35	168387	10.05	226899	11.22	220961	15.43	110129	18.20
JA58900-3 ^d	61922	7.36	79537	10.05	97671 ^c	11.22	41905 ^c	15.43	6015 ^c	18.20
JA58900-8	69797	7.35	173994	10.05	228098	11.22	216561	15.43	90967	18.20
ZZZZZZ	69797	7.35	173994	10.05	228098	11.22	216561	15.43	90967	18.20
JA58900-9	59976	7.36	169039	10.05	221638	11.22	202132	15.43	77656	18.20
ZZZZZZ	59976	7.36	169039	10.05	221638	11.22	202132	15.43	77656	18.20
JA58900-10	64144	7.35	170368	10.05	229099	11.22	222491	15.43	108039	18.20
ZZZZZZ	64144	7.35	170368	10.05	229099	11.22	222491	15.43	108039	18.20
JA58900-11	60806	7.36	164792	10.05	217940	11.22	215873	15.43	108138	18.20
ZZZZZZ	60806	7.36	164792	10.05	217940	11.22	215873	15.43	108138	18.20
JA58900-12	54149	7.35	174820	10.05	234713	11.22	228959	15.43	112666	18.20
ZZZZZZ	54149	7.35	174820	10.05	234713	11.22	228959	15.43	112666	18.20
JA58900-14	76238	7.36	173767	10.05	232904	11.22	226611	15.43	106926	18.20
ZZZZZZ	76238	7.36	173767	10.05	232904	11.22	226611	15.43	106926	18.20
JA58900-1	43962	7.35	165006	10.05	213048	11.22	186621	15.43	63217	18.20
ZZZZZZ	43962	7.35	165006	10.05	213048	11.22	186621	15.43	63217	18.20
JA58900-2	51567	7.36	171124	10.05	229678	11.22	226927	15.43	106466	18.20
ZZZZZZ	51567	7.36	171124	10.05	229678	11.22	226927	15.43	106466	18.20
JA58900-4	68143	7.36	175983	10.05	231702	11.22	225367	15.43	106996	18.20
ZZZZZZ	68143	7.36	175983	10.05	231702	11.22	225367	15.43	106996	18.20

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

Volatile Internal Standard Area Summary

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std: VX4579-CC4516	Injection Date: 10/26/10
Lab File ID: X108347.D	Injection Time: 12:51
Instrument ID: GCMSX	Method: SW846 8260B

Lab	IS 1	IS 2	IS 3	IS 4	IS 5					
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

- (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) Outside control limits due to sample matrix.
- (d) Confirmation run for internal standard areas and Surrogate recovery.

5.6.2

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Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	VX4579-CC4516	Injection Date:	10/27/10
Lab File ID:	X108392.D	Injection Time:	15:02
Instrument ID:	GCMSX	Method:	SW846 8260B

	IS 1		IS 2		IS 3		IS 4		IS 5	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	62391	7.35	138289	10.05	198218	11.22	198728	15.43	100190	18.20
Upper Limit ^a	124782	7.85	276578	10.55	396436	11.72	397456	15.93	200380	18.70
Lower Limit ^b	31196	6.85	69145	9.55	99109	10.72	99364	14.93	50095	17.70

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT
VX4579-MB2	70732	7.36	144369	10.05	203282	11.22	199455	15.43	102603	18.20
VX4579-BS2	65874	7.35	138963	10.05	201066	11.22	206238	15.43	102249	18.20
JA58900-7	67276	7.34	158662	10.05	223610	11.22	218315	15.43	105477	18.20
ZZZZZZ	67276	7.34	158662	10.05	223610	11.22	218315	15.43	105477	18.20

IS 1 = Tert Butyl Alcohol-D9

IS 2 = Pentafluorobenzene

IS 3 = 1,4-Difluorobenzene

IS 4 = Chlorobenzene-D5

IS 5 = 1,4-Dichlorobenzene-d4

(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.

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: DAI BY GC/MS 8260SIM

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JA58900-5	H100524.D	99.0
JA58900-6	H100523.D	93.0
EH4372-BS	H100517.D	145.0
EH4372-MB	H100516.D	72.0
JA58986-1MS	H100518.D	86.0
JA58986-1MSD	H100519.D	77.0

Surrogate Compounds	Recovery Limits
------------------------	--------------------

S1 = Hexanol	50-150%
--------------	---------

5.7.1

5

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: DAI BY GC/MS 8260SIM

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JA58900-1	H100603.D	47.0* ^a
JA58900-1	H100593.D	29.0* ^a
JA58900-2	H100594.D	111.0
JA58900-3	H100577.D	119.0
JA58900-4	H100595.D	118.0
JA58900-7	H100604.D	67.0
JA58900-8	H100605.D	103.0 ^b
JA58900-9	H100578.D	155.0* ^c
JA58900-10	H100606.D	78.0
JA58900-11	H100607.D	74.0
JA58900-12	H100600.D	76.0
JA58900-14	H100601.D	54.0
EH4374-BS	H100574.D	73.0
EH4374-BS2	H100590.D	134.0
EH4374-MB	H100573.D	79.0
EH4374-MB2	H100589.D	101.0
JA58900-3MS	H100591.D	118.0
JA58900-3MSD	H100592.D	112.0

Surrogate Compounds	Recovery Limits
--------------------------------	----------------------------

S1 = Hexanol	50-150%
--------------	---------

(a) Outside control limits due to matrix interference. Confirmed by reanalysis.

(b) double spiked.

(c) High surrogate recoveries and no positive found in this sample.

5.7.2
5

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: SW846 8260B

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JA58900-5	V108527.D	100.0	93.0	104.0	88.0
JA58900-6	V108526.D	97.0	95.0	108.0	90.0
JA58900-15	V108525.D	100.0	95.0	107.0	91.0
VV4578-BS	V108522.D	99.0	107.0	107.0	98.0
VV4578-BSD	V108523.D	99.0	104.0	107.0	96.0
VV4578-MB1	V108521.D	98.0	96.0	105.0	89.0

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane	76-120%
S2 = 1,2-Dichloroethane-D4	64-135%
S3 = Toluene-D8	76-117%
S4 = 4-Bromofluorobenzene	72-122%

5.7.3

5

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: SW846 8260B

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JA58900-1	X108365.D	92.0	92.0	108.0	135.0
JA58900-2	X108366.D	97.0	105.0	109.0	114.0
JA58900-3	X108358.D	142.0* a	110.0	85.0	184.0* a
JA58900-3	X108352.D	99.0	102.0	106.0	147.0* a
JA58900-4	X108367.D	93.0	95.0	108.0	112.0
JA58900-7	X108396.D	103.0	109.0	110.0	113.0
JA58900-8	X108359.D	93.0	97.0	109.0	123.0
JA58900-9	X108360.D	90.0	93.0	108.0	127.0
JA58900-10	X108361.D	93.0	98.0	109.0	111.0
JA58900-11	X108362.D	94.0	100.0	109.0	109.0
JA58900-12	X108363.D	95.0	98.0	108.0	110.0
JA58900-13	X108351.D	93.0	99.0	109.0	110.0
JA58900-14	X108364.D	94.0	101.0	109.0	112.0
JA58900-3MS	X108353.D	105.0	110.0	107.0	131.0
JA58900-3MSD	X108354.D	98.0	101.0	105.0	121.0
VX4579-BS	X108349.D	96.0	104.0	110.0	110.0
VX4579-BS2	X108394.D	105.0	110.0	109.0	103.0
VX4579-MB	X108348.D	97.0	103.0	111.0	108.0
VX4579-MB2	X108393.D	103.0	113.0	111.0	105.0

Surrogate Compounds	Recovery Limits
------------------------	--------------------

S1 = Dibromofluoromethane	67-127%
S2 = 1,2-Dichloroethane-D4	65-132%
S3 = Toluene-D8	74-129%
S4 = 4-Bromofluorobenzene	62-138%

(a) Outside control limits due to sample matrix.

5.7.4
5

Initial Calibration Summary

Page 1 of 1

Job Number: JA58900**Sample:** EH4362-ICC4362**Account:** ENSRMAA AECOM, INC.**Lab FileID:** H100436.D**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Response Factor Report MSH

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)
Title : Ethylene Glycol Propylene Glycol
Last Update : Wed Sep 01 11:22:22 2010
Response via : Initial Calibration

Calibration Files

100 =H100432.D 25 =H100434.D 10 =H100435.D 5 =H100436.D
1 =H100437.D .5 =H100438.D .25 =H100439.D 50 =H100433.D

Compound	100	25	10	5	1	.5	.25	50	Avg	%RSD
1) Ethylene Gly	2.390	2.376	2.493	2.557	2.518	3.040	3.084	2.431	2.611	E5 10.93
2) Propylene Gl	2.983	2.949	2.807	2.643	2.669	3.204	2.342	3.129	2.841	E5 10.00
3) Hexanol		1.137	0.795	1.119	0.649	0.975	1.337	1.122	1.019	E5 22.84

(#) = Out of Range ### Number of calibration levels exceeded format ###

M4362EPG.M

Wed Sep 01 11:28:08 2010 MSH

5.8.1
5

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900

Sample: EH4363-ICV4362

Account: ENSRMAA AECOM, INC.

Lab FileID: H100443.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration 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

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 : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	Ethylene Glycol	261.100	277.496 E3	-6.3	109	0.04	6.44
2	Propylene Glycol	284.064	307.102 E3	-8.1	116	0.04	7.17
3 S	Hexanol			-----NA-----			

(#) = Out of Range SPCC's out = 0 CCC's out = 0
H100436.D M4362EPG.M Tue Aug 31 16:04:04 2010 MSH

5.8.2

5

Continuing Calibration Summary

Page 1 of 1

Job Number: JA58900**Sample:** EH4372-CC4362**Account:** ENSRMAA AECOM, INC.**Lab FileID:** H100515.D**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\EH4372\H100515.D Vial: 1
Acq On : 20 Oct 2010 4:17 pm Operator: kristis
Sample : cc4362-5 Inst : MSH
Misc : ms3383,eh4372,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E

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 : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	Ethylene Glycol	261.100	254.281 E3	2.6	99	0.00	6.74
2	Propylene Glycol	284.064	300.172 E3	-5.7	114	0.01	7.42
3 S	Hexanol	101.926	99.652 E3	2.2	89	0.00	7.93

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

H100449.D M4362EPG.M

Thu Oct 21 08:17:19 2010 MSH

5.8.3
5

Continuing Calibration Summary

Page 1 of 1

Job Number: JA58900

Sample: EH4374-CC4362

Account: ENSRMAA AECOM, INC.

Lab FileID: H100572.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100572.D Vial: 1
Acq On : 26 Oct 2010 4:15 pm Operator: kristis
Sample : cc4362-5 Inst : MSH
Misc : ms3472,eh4374,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)
Title : Ethylene Glycol Propylene Glycol
Last Update : Tue Nov 02 18:07:57 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	Ethylene Glycol	261.100	291.668 E3	-11.7	114	0.18	6.36
2	Propylene Glycol	284.064	335.170 E3	-18.0	127	0.17	7.08
3 S	Hexanol	101.926	97.049 E3	4.8	87	0.03	8.12

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

H100588.D M4362EPG.M

Tue Nov 02 18:26:12 2010 MSH

5.8.4

5

Continuing Calibration Summary

Page 1 of 1

Job Number: JA58900**Sample:** EH4374-CC4362**Account:** ENSRMAA AECOM, INC.**Lab FileID:** H100588.D**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100588.D Vial: 1
Acq On : 27 Oct 2010 1:01 pm Operator: kristis
Sample : cc4362-5 Inst : MSH
Misc : ms3472,eh4374,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)
Title : Ethylene Glycol Propylene Glycol
Last Update : Tue Nov 02 18:07:57 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	Ethylene Glycol	261.100	212.389 E3	18.7	83	0.00	6.18
2	Propylene Glycol	284.064	338.575 E3	-19.2	128	0.00	6.91
3 S	Hexanol	101.926	121.384 E3	-19.1	108	0.00	8.10

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

H100588.D M4362EPG.M

Tue Nov 02 18:08:14 2010 MSH

5.8.5
5

Initial Calibration Summary

Page 1 of 6

Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VV4452-ICC4452
Lab FileID: V105734.D

Response Factor Report MSV

Method : C:\MSDCHEM\1\METHODS\MVS4452.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Oct 21 17:19:02 2010
Response via : Initial Calibration

Calibration Files

1 =v105729.D 10 =v105732.D 100 =v105735.D 50 =v105734.d
20 =v105733.D 200 =v105736.D 5 =v105731.D 0.5 =v105728.D
2 =v105730.D =

Compound	1	10	100	50	20	200	5	0.5	2	Avg	%RSD
1) I Tert Butyl Alcohol-d9 -----ISTD-----											
2) tertiary butyl alcohol											
	2.432	2.641	2.068	2.119	2.175	1.855	2.070	1.906	2.296	2.174	11.48
3) 1,4-dioxane											
	0.156	0.162	0.153	0.145	0.165	0.149				0.155	4.80
4) I pentafluorobenzene -----ISTD-----											
5) Freon 115										0.000	-1.00
6) Freon 23										0.000	-1.00
7) Freon 143A										0.000	-1.00
8) Freon 152A										0.000	-1.00
9) Freon 114										0.000	-1.00
10) Freon 142B										0.000	-1.00
11) Chlorotrifluoroethene										0.000	-1.00
12) 1,3-Butadiene										0.000	-1.00
13) chlorodifluoromethane											
	0.469	0.414	0.394	0.407	0.373	0.473			0.476	0.429	9.89
14) dichlorodifluoromethane											
	0.577	0.599	0.584	0.558	0.595	0.603			0.527	0.578	4.70
15) chloromethane											
	1.125	0.937	0.917	0.887	0.859	0.873	1.002	0.971	0.871	0.938	9.11
16) vinyl chloride											
	0.828	0.813	0.770	0.743	0.711	0.744	0.734		0.699	0.755	6.08
17) bromomethane											
	0.605	0.562	0.546	0.524	0.506	0.524			0.578	0.549	6.32
18) chloroethane											
	0.515	0.490	0.450	0.439	0.430	0.438	0.459		0.488	0.464	6.61
19) trichlorofluoromethane											
	0.657	0.760	0.757	0.715	0.683	0.727	0.742		0.648	0.711	6.18
20) Vinyl Bromide											
	0.532	0.573	0.526	0.528	0.545	0.520				0.537	3.60
21) ethyl ether											
	0.268	0.346	0.348	0.321	0.311	0.331	0.311		0.254	0.311	10.98
22) Acetaldehyde											
										0.000	-1.00
23) Pentane											

Initial Calibration Summary

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VV4452-ICC4452

Lab FileID: V105734.D

Page 2 of 6

24)	Freon 123A									0.000	-1.00	
25)	Freon 141B									0.000	-1.00	
26)	Freon 123									0.000	-1.00	
27)	acrolein	0.109	0.099	0.095	0.092	0.097	0.098			0.098	5.86	
28)	freon 113	0.283	0.397	0.373	0.360	0.353	0.355	0.377	0.350	0.356	9.39	
29)	1,1-dichloroethene	0.524	0.504	0.491	0.466	0.449	0.453	0.504	0.429	0.477	6.50	
30)	acetone	0.051	0.051	0.040	0.043	0.045				0.046	11.10	
31)	iso-butyl alcohol	0.020	0.019	0.018	0.018	0.018	0.018		0.017	0.018	6.37	
32)	allyl chloride	0.114	0.103	0.102	0.090	0.095	0.121		0.106	0.104	10.13	
33)	acetonitrile	0.045	0.041	0.039	0.037	0.040	0.030			0.039	12.80	
34)	iodomethane	0.886	1.134	1.088	1.026	0.963	1.009	1.011	0.699	0.949	12.97	
35)	carbon disulfide	1.398	1.674	1.615	1.547	1.437	1.504	1.580	1.246	1.399	8.89	
36)	methylene chloride	0.904	0.765	0.674	0.673	0.637	0.631	0.721	0.798	0.725	12.87	
37)	methyl acetate	0.082	0.093	0.079	0.075	0.089	0.045			0.077	22.11	
	----- Linear regression -----								0.9982			
	Response Ratio = -0.00445 + 0.09064 *A											
38)	methyl tert butyl ether	1.744	1.874	1.753	1.656	1.632	1.652	1.731	1.841	1.509	1.710	6.56
39)	trans-1,2-dichloroethene	0.593	0.617	0.581	0.553	0.516	0.545	0.566	0.464	0.508	0.549	8.65
40)	di-isopropyl ether	2.234	2.239	1.978	1.899	1.878	1.871	1.996	1.947	1.780	1.980	8.02
41)	2-butanone	0.052	0.062	0.054	0.048	0.058				0.055	10.26	
42)	1,1-dichloroethane	0.849	1.076	1.030	0.968	0.918	0.964	0.960	0.738	0.907	0.935	10.62
43)	chloroprene	0.617	0.743	0.672	0.634	0.633	0.646	0.672	0.629	0.656	6.16	
44)	acrylonitrile	0.172	0.190	0.172	0.172	0.180	0.166		0.119	0.167	13.47	
45)	vinyl acetate	0.055	0.082	0.076	0.055	0.085				0.070	20.94	
	----- Linear regression -----								0.9997			
	Response Ratio = -0.01046 + 0.08754 *A											
46)	ethyl tert-butyl ether	1.816	2.145	1.953	1.865	1.855	1.844	1.915	1.830	1.695	1.880	6.51
47)	ethyl acetate	0.083	0.076	0.071	0.075	0.074	0.094			0.079	10.73	
48)	2,2-dichloropropane	0.725	0.749	0.700	0.657	0.629	0.649	0.716	0.737	0.695	6.44	
49)	cis-1,2-dichloroethene	0.605	0.701	0.678	0.638	0.609	0.638	0.650	0.475	0.570	0.618	10.73
50)	propionitrile											

5.8.6
5

Initial Calibration Summary

Page 3 of 6

Job Number: JA58900

Sample: VV4452-ICC4452

Account: ENSRMAA AECOM, INC.

Lab FileID: V105734.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

		0.076	0.076	0.069	0.068	0.071	0.060		0.053	0.068	12.55
51)	methyl acrylate										
		0.061	0.084	0.071	0.062	0.077				0.071	14.00
52)	methacrylonitrile										
		0.217	0.226	0.202	0.194	0.212				0.210	5.88
53)	bromochloromethane										
		0.286	0.363	0.349	0.324	0.313	0.330	0.307	0.257	0.316	10.69
54)	tetrahydrofuran										
		0.169	0.172	0.162	0.189	0.162	0.172			0.171	5.79
55)	chloroform										
		0.959	1.075	1.001	0.950	0.905	0.948	0.957	0.980	0.877	5.87
56)	tert-Butyl Formate										
		0.341	0.465	0.479	0.438	0.412	0.472	0.389	0.364	0.420	12.41
57)	dibromofluoromethane (s)										
		0.649	0.644	0.570	0.557	0.541	0.563	0.555	0.513	0.574	8.32
58)	1,2-dichloroethane-d4 (s)										
		0.618	0.663	0.588	0.565	0.544	0.532	0.565	0.558	0.579	7.45
59)	1,1,1-trichloroethane										
		0.652	0.786	0.780	0.731	0.693	0.721	0.732	0.597	0.625	9.38
60)	Cyclohexane										
		0.711	0.754	0.713	0.683	0.651	0.662	0.695	0.754	0.732	5.23
61)	Tert Amyl Alcohol										
		0.014	0.019	0.017	0.014	0.019	0.006			0.015	32.92
	----- Linear regression -----										
	Response Ratio = -0.00780 + 0.01957 *A										
62)	I 1,4-difluorobenzene										
63)	methylcyclohexane										
		0.575	0.559	0.519	0.500	0.491	0.482	0.534	0.395	0.519	10.27
64)	epichlorohydrin										
		0.033	0.032	0.029	0.030	0.030	0.022			0.029	13.71
65)	n-butyl alcohol										
		0.010	0.011	0.010	0.009	0.010	0.007			0.009	14.62
66)	carbon tetrachloride										
		0.349	0.407	0.397	0.375	0.355	0.367	0.379	0.355	0.373	5.56
67)	1,1-dichloropropene										
		0.348	0.431	0.420	0.399	0.377	0.386	0.404	0.351	0.390	7.72
68)	hexane										
		0.416	0.359	0.356	0.371	0.326	0.497			0.387	15.82
	----- Linear regression -----										
	Response Ratio = 0.02696 + 0.32414 *A										
69)	2,2,4-Trimethylpentane										
		1.221	1.186	1.096	1.049	1.023	1.005	1.156	1.038	1.097	7.44
70)	benzene										
		1.279	1.531	1.427	1.363	1.285	1.315	1.423	1.172	1.348	7.70
71)	tert-amyl methyl ether										
		1.313	1.340	1.175	1.138	1.120	1.100	1.155	1.413	1.253	9.07
72)	heptane										
		0.210	0.207	0.195	0.198	0.193	0.241		0.238	0.212	9.48
73)	isopropyl acetate										
		0.123	0.137	0.125	0.123	0.129	0.083			0.120	15.53
	----- Linear regression -----										
	Response Ratio = -0.00199 + 0.13098 *A										
74)	1,2-dichloroethane										
		0.354	0.445	0.413	0.392	0.375	0.385	0.374	0.292	0.379	11.82
75)	trichloroethene										
		0.346	0.394	0.354	0.342	0.336	0.327	0.369	0.296	0.316	8.38

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Initial Calibration Summary

Job Number: JA58900
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VV4452-ICC4452
 Lab FileID: V105734.D

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76)	Ethyl Acrylate									0.000	-1.00
77)	tert-Amyl Ethyl Ether										
		0.612	0.655	0.590	0.572	0.559	0.568	0.577	0.530	0.583	6.42
78)	2-nitropropane										
		0.008	0.018	0.015	0.013	0.016				0.014	27.66
	----- Linear regression -----	Coefficient = 0.9948									
	Response Ratio = -0.00111 + 0.01647 *A										
79)	2-chloroethyl vinyl ether										
		0.159	0.159	0.145	0.137	0.156	0.129			0.148	8.56
80)	methyl methacrylate										
		0.098	0.102	0.092	0.086	0.094	0.077			0.092	9.83
81)	1,2-dichloropropane										
		0.341	0.425	0.395	0.376	0.372	0.365	0.384	0.349	0.353	0.373
82)	dibromomethane										
		0.176	0.239	0.224	0.212	0.207	0.210	0.220	0.187	0.209	9.55
83)	bromodichloromethane										
		0.453	0.542	0.499	0.469	0.459	0.461	0.473	0.383	0.425	0.463
84)	cis-1,3-dichloropropene										
		0.552	0.679	0.635	0.600	0.594	0.583	0.618	0.506	0.571	0.593
85)	toluene-d8 (s)										
		1.340	1.496	1.274	1.271	1.233	1.201	1.291	1.183	1.286	7.66
86)	4-methyl-2-pentanone										
		0.146	0.145	0.130	0.131	0.131	0.127			0.135	6.14
87)	toluene										
		1.095	1.035	0.937	0.905	0.892	0.863	0.976	1.112	0.977	9.65
88)	isoamyl alcohol										
		0.014	0.014	0.013	0.010	0.014	0.013			0.013	11.34
89)	trans-1,3-dichloropropene										
		0.448	0.581	0.564	0.535	0.522	0.523	0.511	0.462	0.518	8.74
90)	ethyl methacrylate										
		0.452	0.483	0.447	0.436	0.444	0.425			0.448	4.39
91)	1,1,2-trichloroethane										
		0.248	0.322	0.294	0.284	0.276	0.276	0.281	0.276	0.272	0.281
92)	2-hexanone										
		0.104	0.141	0.120	0.108	0.134	0.110			0.119	12.51
93)	I chlorobenzene-d5	-----ISTD-----									
94)	tetrachloroethene										
		0.461	0.654	0.535	0.501	0.513	0.457	0.601	0.523	0.531	12.67
95)	1,3-dichloropropane										
		0.484	0.641	0.593	0.565	0.566	0.555	0.527	0.465	0.501	0.544
96)	butyl acetate										
		0.105	0.091	0.075	0.073	0.085	0.148			0.096	29.15
	----- Linear regression -----	Coefficient = 0.9962									
	Response Ratio = 0.00074 + 0.08536 *A										
97)	3,3-Dimethyl-1-Butanol										
		0.023	0.025	0.022	0.021	0.025	0.022			0.023	7.42
98)	dibromochloromethane										
		0.427	0.509	0.464	0.435	0.435	0.442	0.388	0.334	0.391	0.425
99)	1,2-dibromoethane										
		0.313	0.400	0.384	0.362	0.359	0.361	0.324	0.301	0.350	9.92
100)	chlorobenzene										
		1.037	1.287	1.193	1.132	1.105	1.100	1.089	0.849	0.996	1.088
101)	1,1,1,2-tetrachloroethane										
		0.381	0.470	0.436	0.413	0.409	0.416	0.386	0.294	0.363	0.396
102)	ethylbenzene										
		1.550	1.916	1.804	1.727	1.660	1.665	1.619	1.565	1.546	1.672
											7.48

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Initial Calibration Summary

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Job Number: JA58900

Sample: VV4452-ICC4452

Account: ENSRMAA AECOM, INC.

Lab FileID: V105734.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

103)	m,p-xylene	0.633	0.773	0.736	0.700	0.687	0.684	0.649	0.601	0.633	0.677	8.07
104)	o-xylene	0.634	0.820	0.759	0.720	0.702	0.711	0.680	0.635	0.622	0.698	9.24
105)	styrene	1.114	1.422	1.340	1.271	1.242	1.266	1.170	1.089	1.073	1.221	9.72
106)	Butyl Acrylate										0.000	-1.00
107)	bromoform	0.352	0.341	0.316	0.319	0.323	0.264		0.234	0.307	13.86	
108)	cyclohexanone	0.022	0.018	0.024	0.018	0.022	0.019	0.023	0.022	0.021	10.61	
109)	4-bromofluorobenzene (s)	0.620	0.534	0.527	0.513	0.529	0.591		0.650	0.566	9.52	
110)	I 1,4-dichlorobenzene-d	-----ISTD-----										
111)	isopropylbenzene	3.138	3.734	3.443	3.242	3.152	3.090	3.434	2.894	3.114	3.249	7.69
112)	bromobenzene	0.912	1.190	1.088	1.025	1.016	1.014	1.035	0.913	0.923	1.013	8.96
113)	1,1,2,2-tetrachloroethane	0.855	0.975	0.874	0.807	0.804	0.820	0.858	0.779	0.846	7.21	
114)	trans-1,4-dichloro-2-butene	0.176	0.181	0.179	0.164	0.174	0.138			0.169	9.59	
115)	1,2,3-trichloropropane	0.183	0.253	0.233	0.224	0.217	0.215	0.225	0.192	0.218	10.16	
116)	n-propylbenzene	3.504	4.068	3.833	3.635	3.444	3.523	3.835	3.601	3.871	3.701	5.65
117)	4-Ethyltoluene	2.803	3.603	3.313	3.127	2.905	3.084	3.205	2.656	3.087	9.73	
118)	2-chlorotoluene	0.821	0.990	0.910	0.851	0.824	0.846	0.915	0.742	0.884	0.865	8.14
119)	4-chlorotoluene	2.590	2.837	2.571	2.462	2.418	2.336	2.573	2.331	2.515	6.62	
120)	1,3,5-trimethylbenzene	2.470	3.202	2.829	2.781	2.770	2.651	2.880	2.889	2.809	7.47	
121)	tert-butylbenzene	2.030	2.589	2.473	2.316	2.218	2.287	2.431	1.785	2.166	2.255	10.82
122)	pentachloroethane	0.481	0.544	0.525	0.487	0.575	0.383			0.499	13.44	
123)	1,2,4-trimethylbenzene	2.769	3.036	2.893	2.721	2.631	2.689	2.919	2.945	2.773	2.820	4.78
124)	sec-butylbenzene	3.255	3.745	3.560	3.374	3.242	3.264	3.530	3.025	2.973	3.330	7.55
125)	1,3-dichlorobenzene	1.494	1.932	1.848	1.733	1.658	1.733	1.740	1.345	1.617	1.678	10.57
126)	p-isopropyltoluene	2.481	2.989	2.942	2.769	2.631	2.726	2.777	2.372	2.613	2.700	7.42
127)	1,2,3-Trimethylbenzene										0.000	-1.00
128)	1,4-dichlorobenzene	2.028	2.080	1.937	1.824	1.770	1.782	2.057	2.171	1.912	1.951	7.28
129)	1,2-dichlorobenzene	1.625	1.974	1.826	1.714	1.707	1.721	1.788	1.701	1.498	1.728	7.62
130)	Benzyl Chloride	1.128	1.227	1.069	1.002	1.219	0.962		0.908	1.073	11.58	
131)	Vinyl Toluene										0.000	-1.00
132)	1,4-Diethylbenzene	1.558	1.801	1.756	1.660	1.510	1.733	1.647	1.264	1.394	1.592	11.18

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Initial Calibration Summary

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Job Number: JA58900

Sample: VV4452-ICC4452

Account: ENSRMAA AECOM, INC.

Lab FileID: V105734.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

133)	n-butylbenzene	1.040	1.392	1.487	1.371	1.230	1.415	1.318	1.073	1.291	12.62
134)	1,2,4,5-tetramethylbenzene	2.459	2.938	2.813	2.635	2.409	2.772	2.446	2.280	2.594	8.90
135)	1,2-dibromo-3-chloropropane	0.131	0.136	0.121	0.121	0.129	0.117		0.089	0.120	12.65
136)	1,3,5-trichlorobenzene	1.125	1.407	1.435	1.336	1.228	1.373	1.360	1.242	1.176	1.298
137)	1,2,4-trichlorobenzene	1.174	1.260	1.156	1.025	1.236	0.992			1.141	9.61
138)	hexachlorobutadiene	0.698	0.685	0.638	0.580	0.661	0.658		0.598	0.645	6.70
139)	naphthalene	2.041	2.423	2.089	1.859	2.338	1.611			2.060	14.61
140)	1,2,3-trichlorobenzene	0.799	1.096	1.179	1.065	0.977	1.143	0.920	1.029	0.809	1.002
141)	hexachloroethane	0.575	0.598	0.547	0.498	0.566	0.508			0.549	7.13

(#) = Out of Range ### Number of calibration levels exceeded format ###

MVS4452.M

Mon Oct 25 12:03:52 2010

RPT1

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Initial Calibration Verification

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Job Number: JA58900

Sample: VV4452-ICV4452

Account: ENSRMAA AECOM, INC.

Lab FileID: V105739.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\VV4452\V105739.D
 Acq On : 5 Aug 2010 4:28 am
 Sample : ICV4452-50
 Misc : MS230,VV4452,5.0,,,,,1
 MS Integration Params: rteint.p

Vial: 25
 Operator: DONGMEI
 Inst : MSV
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MVS4452.M (RTE Integrator)
 Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Mon Oct 25 12:01:12 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	103	0.00	7.45
2	tertiary butyl alcohol	2.174	2.028	6.7	98	0.00	7.57
3	1,4-dioxane	0.155	0.155	0.0	104	0.00	11.37
4 I	pentafluorobenzene	1.000	1.000	0.0	108	0.00	9.67
5	Freon 115			-----NA-----			
6	Freon 23			-----NA-----			
7	Freon 143A			-----NA-----			
8	Freon 152A			-----NA-----			
9	Freon 114			-----NA-----			
10	Freon 142B			-----NA-----			
11	Chlorotrifluoroethene			-----NA-----			
12	1,3-Butadiene			-----NA-----			
13	chlorodifluoromethane	0.429	0.357	16.8	98	0.00	4.24
14	dichlorodifluoromethane	0.578	0.486	15.9	90	0.00	4.24
15	chloromethane	0.938	0.790	15.8	96	0.00	4.55
16	vinyl chloride	0.755	0.682	9.7	99	0.00	4.79
17	bromomethane	0.549	0.481	12.4	95	0.00	5.41
18	chloroethane	0.464	0.409	11.9	101	0.00	5.57
19	trichlorofluoromethane	0.711	0.673	5.3	102	0.00	5.98
20	Vinyl Bromide			-----NA-----			
21	ethyl ether	0.311	0.337	-8.4	113	0.00	6.39
22	Acetaldehyde			-----NA-----			
23	Pentane			-----NA-----			
24	Freon 123A			-----NA-----			
25	Freon 141B			-----NA-----			
26	Freon 123			-----NA-----			
27	acrolein	0.098	0.097	1.0	111	0.00	6.64
28	freon 113	0.356	0.332	6.7	100	0.01	6.77
29	1,1-dichloroethene	0.477	0.483	-1.3	112	0.00	6.81
30	acetone	0.046	0.045	2.2	122	0.00	6.89
31	iso-butyl alcohol	0.018	0.019	-5.6	112	0.00	10.24
32	allyl chloride	0.104	0.112	-7.7	119	-0.01	7.31
33	acetonitrile	0.039	0.038	2.6	106	0.00	7.29
34	iodomethane	0.974	1.100	-12.9	116	0.00	7.09
35	carbon disulfide	1.489	1.768	-18.7	123	0.00	7.22
36	methylene chloride	0.725	0.682	5.9	110	0.00	7.50
	----- True Calc. % Drift -----						
37	methyl acetate	50.000	44.284	11.4	104	0.00	7.32
	----- AvgRF CCRF % Dev -----						

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Initial Calibration Verification

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VV4452-ICV4452

Lab FileID: V105739.D

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38	methyl tert butyl ether	1.710	1.721	-0.6	112	0.00	7.81
39	trans-1,2-dichloroethene	0.549	0.548	0.2	107	0.00	7.87
40	di-isopropyl ether	1.980	1.824	7.9	104	0.00	8.39
41	2-butanone	0.055	0.060	-9.1	120	0.00	9.15
42	1,1-dichloroethane	0.935	1.027	-9.8	115	0.00	8.42
43	chloroprene	0.656	0.619	5.6	105	0.00	8.54
44	acrylonitrile	0.167	0.175	-4.8	110	0.00	7.82

		True	Calc.	% Drift			
45	vinyl acetate	50.000	47.169	5.7	103	0.00	8.43

		AvgRF	CCRF	% Dev			
46	ethyl tert-butyl ether	1.880	1.789	4.8	104	0.00	8.86
47	ethyl acetate	0.079	0.081	-2.5	124	0.00	9.15
48	2,2-dichloropropane	0.695	0.692	0.4	114	0.00	9.16
49	cis-1,2-dichloroethene	0.618	0.731	-18.3	124	0.00	9.16
50	propionitrile	0.068	0.070	-2.9	108	0.00	9.22
51	methyl acrylate	0.071	0.069	2.8	105	0.00	9.27
52	methacrylonitrile	0.210	0.207	1.4	111	0.00	9.42
53	bromochloromethane	0.316	0.345	-9.2	115	0.00	9.48
54	tetrahydrofuran	0.171	0.169	1.2	113	0.01	9.54
55	chloroform	0.961	1.009	-5.0	115	0.00	9.52
56	tert-Butyl Formate	0.420	0.422	-0.5	104	0.00	9.56
57 S	dibromofluoromethane (s)	0.574	0.546	4.9	106	0.00	9.73
58 S	1,2-dichloroethane-d4 (s)	0.579	0.547	5.5	105	0.00	10.16
59	1,1,1-trichloroethane	0.702	0.762	-8.5	113	0.00	9.79
60	Cyclohexane	0.706	0.710	-0.6	112	0.00	9.87

		True	Calc.	% Drift			
61	Tert Amyl Alcohol	250.000	218.134	12.7	99	0.00	10.10

		AvgRF	CCRF	% Dev			
62 I	1,4-difluorobenzene	1.000	1.000	0.0	106	0.00	10.62
63	methylcyclohexane	0.508	0.495	2.6	105	0.00	11.20
64	epichlorohydrin	0.029	0.028	3.4	105	0.00	11.94
65	n-butyl alcohol	0.009	0.009	0.0	102	0.00	10.75
66	carbon tetrachloride	0.373	0.404	-8.3	114	0.00	10.00
67	1,1-dichloropropene	0.390	0.431	-10.5	115	0.00	9.98

		True	Calc.	% Drift			
68	hexane	50.000	46.381	7.2	98	0.00	8.16

		AvgRF	CCRF	% Dev			
69	2,2,4-Trimethylpentane	1.097	1.046	4.6	106	0.00	10.23
70	benzene	1.349	1.454	-7.8	113	0.00	10.24
71	tert-amyl methyl ether	1.223	1.113	9.0	104	0.00	10.26
72	heptane	0.212	0.197	7.1	107	0.00	10.41

		True	Calc.	% Drift			
73	isopropyl acetate	50.000	47.919	4.2	105	0.00	10.15

		AvgRF	CCRF	% Dev			
74	1,2-dichloroethane	0.379	0.424	-11.9	115	0.00	10.25
75	trichloroethene	0.342	0.366	-7.0	114	0.00	10.97
76	Ethyl Acrylate	0.000	0.037	0.0	0#	0.00	10.98
77	tert-Amyl Ethyl Ether	0.583	0.577	1.0	107	0.00	11.13

		True	Calc.	% Drift			
78	2-nitropropane	50.000	46.498	7.0	104	0.00	12.17

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Initial Calibration Verification

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VV4452-ICV4452

Lab FileID: V105739.D

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		AvgRF	CCRF	% Dev			
79	2-chloroethyl vinyl ether	0.148	0.142	4.1	104	0.00	11.79
80	methyl methacrylate	0.092	0.100	-8.7	115	0.00	11.26
81	1,2-dichloropropane	0.373	0.404	-8.3	114	0.00	11.23
82	dibromomethane	0.209	0.230	-10.0	115	0.00	11.41
83	bromodichloromethane	0.463	0.514	-11.0	116	0.00	11.54
84	cis-1,3-dichloropropene	0.593	0.637	-7.4	113	0.00	12.03
85 S	toluene-d8 (s)	1.286	1.236	3.9	103	0.00	12.35
86	4-methyl-2-pentanone	0.135	0.136	-0.7	111	0.00	12.13
87	toluene	0.977	0.953	2.5	112	0.00	12.43
88	isoamyl alcohol	0.013	0.013	0.0	102	0.00	12.16
89	trans-1,3-dichloropropene	0.518	0.556	-7.3	111	0.00	12.64
90	ethyl methacrylate	0.448	0.480	-7.1	114	0.00	12.64
91	1,1,2-trichloroethane	0.281	0.303	-7.8	113	0.00	12.87
92	2-hexanone	0.119	0.133	-11.8	117	0.00	13.09
93 I	chlorobenzene-d5	1.000	1.000	0.0	106	0.00	14.03
94	tetrachloroethene	0.531	0.507	4.5	108	0.00	13.08
95	1,3-dichloropropane	0.544	0.596	-9.6	112	0.00	13.08
96	butyl acetate	50.000	51.458	-2.9	126	0.00	13.16
97	3,3-Dimethyl-1-Butanol	0.023	0.020	13.0	97	0.00	13.27
98	dibromochloromethane	0.425	0.464	-9.2	113	0.00	13.37
99	1,2-dibromoethane	0.350	0.390	-11.4	115	0.00	13.55
100	chlorobenzene	1.088	1.196	-9.9	112	0.00	14.07
101	1,1,1,2-tetrachloroethane	0.396	0.441	-11.4	114	0.00	14.12
102	ethylbenzene	1.672	1.811	-8.3	111	0.00	14.12
103	m,p-xylene	0.677	0.740	-9.3	112	0.00	14.24
104	o-xylene	0.698	0.770	-10.3	114	0.00	14.72
105	styrene	1.221	1.334	-9.3	112	0.00	14.73
106	Butyl Acrylate			NA			
107	bromoform	0.307	0.339	-10.4	114	0.00	15.03
108	cyclohexanone	0.021	0.013	38.1#	75	0.00	15.29
109 S	4-bromofluorobenzene (s)	0.566	0.510	9.9	103	0.00	15.34
110 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	16.65
111	isopropylbenzene	3.249	3.493	-7.5	111	0.00	15.10
112	bromobenzene	1.013	1.101	-8.7	110	0.00	15.57
113	1,1,2,2-tetrachloroethane	0.846	0.899	-6.3	114	0.00	15.44
114	trans-1,4-dichloro-2-bute	0.169	0.192	-13.6	110	0.00	15.50
115	1,2,3-trichloropropane	0.218	0.234	-7.3	107	0.00	15.53
116	n-propylbenzene	3.701	3.833	-3.6	108	0.00	15.57
117	4-Ethyltoluene	3.087	3.200	-3.7	105	0.00	15.68
118	2-chlorotoluene	0.865	0.937	-8.3	113	0.00	15.74
119	4-chlorotoluene	2.515	2.586	-2.8	108	0.00	15.85
120	1,3,5-trimethylbenzene	2.809	2.972	-5.8	110	0.00	15.73
121	tert-butylbenzene	2.255	2.522	-11.8	112	0.00	16.13
122	pentachloroethane	0.499	0.637	-27.7#	124	0.00	16.22
123	1,2,4-trimethylbenzene	2.820	2.950	-4.6	111	0.00	16.18
124	sec-butylbenzene	3.330	3.658	-9.8	111	0.00	16.37
125	1,3-dichlorobenzene	1.678	1.878	-11.9	111	0.00	16.59
126	p-isopropyltoluene	2.700	3.083	-14.2	114	0.00	16.50
127	1,2,3-Trimethylbenzene			NA			
128	1,4-dichlorobenzene	1.951	1.967	-0.8	111	0.00	16.68
129	1,2-dichlorobenzene	1.728	1.846	-6.8	111	0.00	17.12
130	Benzyl Chloride	1.073	1.026	4.4	99	0.00	16.82

5.8.7
5

Initial Calibration Verification

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VV4452-ICV4452

Lab FileID: V105739.D

Page 4 of 4

131	Vinyl Toluene			-----NA-----			
132	1,4-Diethylbenzene	1.592	1.709	-7.3	106	0.00	16.93
133	n-butylbenzene	1.291	1.501	-16.3	112	0.00	16.97
134	1,2,4,5-tetramethylbenzen	2.594	2.753	-6.1	107	0.00	17.81
135	1,2-dibromo-3-chloropropa	0.120	0.127	-5.8	108	0.00	17.98
136	1,3,5-trichlorobenzene	1.298	1.444	-11.2	111	0.00	18.19
137	1,2,4-trichlorobenzene	1.141	1.239	-8.6	110	0.00	18.92
138	hexachlorobutadiene	0.645	0.703	-9.0	113	0.00	19.04
139	naphthalene	2.060	2.269	-10.1	112	0.00	19.25
140	1,2,3-trichlorobenzene	1.002	1.164	-16.2	112	0.00	19.54
141	hexachloroethane	0.549	0.644	-17.3	121	0.00	17.41

(#) = Out of Range
v105734.d MVS4452.M

SPCC's out = 0 CCC's out = 0
Mon Oct 25 12:02:39 2010 RPT1

5.8.7

5

Continuing Calibration Summary

Page 1 of 4

Job Number: JA58900

Sample: VV4577-CC4452

Account: ENSRMAA AECOM, INC.

Lab FileID: V108506.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\V108506.D

Vial: 3

Acq On : 21 Oct 2010 11:00 am

Operator: JIANHUAL

Sample : CC4452-20

Inst : MSV

Misc : MS3346,VV4577,5,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MVS4452.M (RTE Integrator)

Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Thu Oct 21 17:19:02 2010

Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	102	-0.01	7.44
2	tertiary butyl alcohol	2.174	2.014	7.4	95	0.00	7.57
3	1,4-dioxane	0.155	0.212	-36.8#	149	0.01	11.38
4 I	pentafluorobenzene	1.000	1.000	0.0	101	0.00	9.67
5	Freon 115			-----NA-----			
6	Freon 23			-----NA-----			
7	Freon 143A			-----NA-----			
8	Freon 152A			-----NA-----			
9	Freon 114			-----NA-----			
10	Freon 142B			-----NA-----			
11	Chlorotrifluoroethene			-----NA-----			
12	1,3-Butadiene			-----NA-----			
13	chlorodifluoromethane	0.429	0.345	19.6	86	0.00	4.25
14	dichlorodifluoromethane	0.578	0.536	7.3	97	0.00	4.24
15	chloromethane	0.938	0.871	7.1	103	0.00	4.55
16	vinyl chloride	0.755	0.803	-6.4	114	0.00	4.79
17	bromomethane	0.549	0.518	5.6	100	0.00	5.41
18	chloroethane	0.464	0.459	1.1	108	0.00	5.58
19	trichlorofluoromethane	0.711	0.758	-6.6	112	0.03	6.02
20	Vinyl Bromide			-----NA-----			
21	ethyl ether	0.311	0.325	-4.5	106	0.02	6.41
22	Acetaldehyde			-----NA-----			
23	Pentane			-----NA-----			
24	Freon 123A			-----NA-----			
25	Freon 141B			-----NA-----			
26	Freon 123			-----NA-----			
27	acrolein	0.098	0.116	-18.4	128	0.02	6.65
28	freon 113	0.356	0.390	-9.6	112	0.01	6.77
29	1,1-dichloroethene	0.477	0.497	-4.2	112	0.00	6.82
30	acetone	0.046	0.049	-6.5	116	0.06	6.95
31	iso-butyl alcohol	0.018	0.019	-5.6	107	0.02	10.26
32	allyl chloride	0.104	0.108	-3.8	122	0.00	7.32
33	acetonitrile	0.039	0.044	-12.8	119	0.02	7.30
34	iodomethane	0.974	1.019	-4.6	107	0.00	7.09
35	carbon disulfide	1.489	1.708	-14.7	120	0.00	7.23
36	methylene chloride	0.725	0.612	15.6	97	0.00	7.50
	----- True Calc. % Drift -----						
37	methyl acetate	20.000	20.157	-0.8	109	0.04	7.35
	----- AvgRF CCRF % Dev -----						

Continuing Calibration Summary

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VV4577-CC4452

Lab FileID: V108506.D

Page 2 of 4

38	methyl tert butyl ether	1.710	1.658	3.0	103	0.00	7.81
39	trans-1,2-dichloroethene	0.549	0.571	-4.0	112	0.00	7.88
40	di-isopropyl ether	1.980	1.847	6.7	100	0.00	8.39
41	2-butanone	0.055	0.061	-10.9	129	0.02	9.18
42	1,1-dichloroethane	0.935	1.024	-9.5	113	0.00	8.43
43	chloroprene	0.656	0.638	2.7	102	0.00	8.55
44	acrylonitrile	0.167	0.188	-12.6	111	0.02	7.84

		True	Calc.	% Drift			
45	vinyl acetate	20.000	17.064	14.7	90	0.06	8.49

		AvgRF	CCRF	% Dev			
46	ethyl tert-butyl ether	1.880	1.828	2.8	100	0.00	8.86
47	ethyl acetate	0.079	0.076	3.8	103	0.04	9.20
48	2,2-dichloropropane	0.695	0.820	-18.0	132	0.00	9.16
49	cis-1,2-dichloroethene	0.618	0.647	-4.7	107	0.01	9.17
50	propionitrile	0.068	0.076	-11.8	113	0.02	9.24
51	methyl acrylate	0.071	0.068	4.2	111	0.03	9.29
52	methacrylonitrile	0.210	0.195	7.1	102	0.02	9.44
53	bromochloromethane	0.316	0.325	-2.8	105	0.00	9.47
54	tetrahydrofuran	0.171	0.194	-13.5	104	0.02	9.55
55	chloroform	0.961	1.011	-5.2	113	0.00	9.52
56	tert-Butyl Formate	0.420	0.448	-6.7	110	0.00	9.56
57 S	dibromofluoromethane (s)	0.574	0.604	-5.2	113	0.00	9.72
58 S	1,2-dichloroethane-d4 (s)	0.579	0.608	-5.0	113	0.00	10.16
59	1,1,1-trichloroethane	0.702	0.814	-16.0	119	0.00	9.79
60	Cyclohexane	0.706	0.730	-3.4	113	0.00	9.86

		True	Calc.	% Drift			
61	Tert Amyl Alcohol	100.000	147.591	-47.6#	175	0.00	10.10

		AvgRF	CCRF	% Dev			
62 I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.00	10.62
63	methylcyclohexane	0.508	0.540	-6.3	107	0.00	11.20
64	epichlorohydrin	0.029	0.034	-17.2	112	0.02	11.95
65	n-butyl alcohol	0.009	0.012	-33.3#	132	0.02	10.76
66	carbon tetrachloride	0.373	0.457	-22.5#	126	0.00	10.00
67	1,1-dichloropropene	0.390	0.488	-25.1#	126	0.00	9.98

		True	Calc.	% Drift			
68	hexane	20.000	20.948	-4.7	107	0.00	8.16

		AvgRF	CCRF	% Dev			
69	2,2,4-Trimethylpentane	1.097	1.184	-7.9	113	0.00	10.23
70	benzene	1.349	1.494	-10.7	113	0.00	10.24
71	tert-amyl methyl ether	1.223	1.139	6.9	99	0.00	10.26
72	heptane	0.212	0.231	-9.0	114	0.00	10.41

		True	Calc.	% Drift			
73	isopropyl acetate	20.000	21.638	-8.2	109	0.00	10.15

		AvgRF	CCRF	% Dev			
74	1,2-dichloroethane	0.379	0.474	-25.1#	123	0.00	10.25
75	trichloroethene	0.342	0.381	-11.4	111	0.00	10.98
76	Ethyl Acrylate	0.000	0.038	0.0	0#	0.02	10.99
77	tert-Amyl Ethyl Ether	0.583	0.557	4.5	97	0.00	11.13

		True	Calc.	% Drift			
78	2-nitropropane	20.000	21.618	-8.1	117	0.00	12.17

Continuing Calibration Summary

Page 3 of 4

Job Number: JA58900

Sample: VV4577-CC4452

Account: ENSRMAA AECOM, INC.

Lab FileID: V108506.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

		AvgRF	CCRF	% Dev			
79	2-chloroethyl vinyl ether	0.148	0.132	10.8	94	0.01	11.80
80	methyl methacrylate	0.092	0.096	-4.3	108	0.02	11.27
81	1,2-dichloropropane	0.373	0.419	-12.3	110	0.00	11.24
82	dibromomethane	0.209	0.242	-15.8	114	0.00	11.42
83	bromodichloromethane	0.463	0.528	-14.0	112	0.00	11.54
84	cis-1,3-dichloropropene	0.593	0.684	-15.3	112	0.00	12.04
85 S	toluene-d8 (s)	1.286	1.478	-14.9	117	0.00	12.35
86	4-methyl-2-pentanone	0.135	0.143	-5.9	106	0.01	12.14
87	toluene	0.977	0.959	1.8	105	0.00	12.43
88	isoamyl alcohol	0.013	0.017	-30.8#	160	0.00	12.17
89	trans-1,3-dichloropropene	0.518	0.613	-18.3	114	0.00	12.65
90	ethyl methacrylate	0.448	0.446	0.4	100	0.01	12.65
91	1,1,2-trichloroethane	0.281	0.300	-6.8	106	0.00	12.87
92	2-hexanone	0.119	0.128	-7.6	115	0.03	13.12
93 I	chlorobenzene-d5	1.000	1.000	0.0	104	0.00	14.03
94	tetrachloroethene	0.531	0.471	11.3	95	0.00	13.08
95	1,3-dichloropropane	0.544	0.589	-8.3	108	0.00	13.08
	----- True	Calc.	% Drift				
96	butyl acetate	20.000	20.745	-3.7	128	0.01	13.17
	----- AvgRF	CCRF	% Dev				
97	3,3-Dimethyl-1-Butanol	0.023	0.025	-8.7	125	0.00	13.27
98	dibromochloromethane	0.425	0.438	-3.1	104	0.00	13.37
99	1,2-dibromoethane	0.350	0.375	-7.1	108	0.00	13.55
100	chlorobenzene	1.088	1.132	-4.0	106	0.00	14.06
101	1,1,1,2-tetrachloroethane	0.396	0.422	-6.6	107	0.00	14.12
102	ethylbenzene	1.672	1.802	-7.8	112	0.00	14.13
103	m,p-xylene	0.677	0.720	-6.4	109	0.00	14.25
104	o-xylene	0.698	0.710	-1.7	105	0.00	14.72
105	styrene	1.221	1.209	1.0	101	0.00	14.74
106	Butyl Acrylate			NA			
107	bromoform	0.307	0.322	-4.9	104	0.00	15.03
108	cyclohexanone	0.021	0.062	-195.2#	297#	0.00	15.29
109 S	4-bromofluorobenzene (s)	0.566	0.586	-3.5	118	0.00	15.34
110 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	108	0.00	16.65
111	isopropylbenzene	3.249	3.272	-0.7	112	0.00	15.10
112	bromobenzene	1.013	0.973	3.9	104	0.00	15.57
113	1,1,2,2-tetrachloroethane	0.846	0.866	-2.4	117	0.00	15.44
114	trans-1,4-dichloro-2-bute	0.169	0.173	-2.4	114	0.00	15.50
115	1,2,3-trichloropropane	0.218	0.221	-1.4	111	0.00	15.52
116	n-propylbenzene	3.701	3.833	-3.6	121	0.00	15.56
117	4-Ethyltoluene	3.087	3.145	-1.9	117	0.00	15.68
118	2-chlorotoluene	0.865	0.860	0.6	113	0.00	15.73
119	4-chlorotoluene	2.515	2.405	4.4	108	0.00	15.85
120	1,3,5-trimethylbenzene	2.809	2.863	-1.9	112	0.00	15.73
121	tert-butylbenzene	2.255	2.328	-3.2	114	0.00	16.12
122	pentachloroethane	0.499	0.594	-19.0	132	0.00	16.21
123	1,2,4-trimethylbenzene	2.820	2.707	4.0	112	0.00	16.18
124	sec-butylbenzene	3.330	3.485	-4.7	117	0.00	16.37
125	1,3-dichlorobenzene	1.678	1.685	-0.4	110	0.00	16.59
126	p-isopropyltoluene	2.700	2.827	-4.7	116	0.00	16.50
127	1,2,3-Trimethylbenzene			NA			
128	1,4-dichlorobenzene	1.951	1.810	7.2	111	0.00	16.68
129	1,2-dichlorobenzene	1.728	1.639	5.2	104	0.00	17.12
130	Benzyl Chloride	1.073	1.418	-32.2#	153	0.00	16.81

5.8.8
5

Continuing Calibration Summary

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VV4577-CC4452

Lab FileID: V108506.D

Page 4 of 4

131	Vinyl Toluene			-----NA-----			
132	1,4-Diethylbenzene	1.592	1.666	-4.6	120	0.00	16.93
133	n-butylbenzene	1.291	1.428	-10.6	126	0.00	16.97
134	1,2,4,5-tetramethylbenzen	2.594	2.548	1.8	115	0.00	17.81
135	1,2-dibromo-3-chloropropa	0.120	0.128	-6.7	114	0.00	17.98
136	1,3,5-trichlorobenzene	1.298	1.351	-4.1	119	0.00	18.20
137	1,2,4-trichlorobenzene	1.141	1.066	6.6	113	0.00	18.92
138	hexachlorobutadiene	0.645	0.638	1.1	119	0.00	19.03
139	naphthalene	2.060	2.048	0.6	119	0.00	19.26
140	1,2,3-trichlorobenzene	1.002	0.986	1.6	109	0.00	19.54
141	hexachloroethane	0.549	0.534	2.7	116	0.00	17.41

(#) = Out of Range

v105733.D MVS4452.M

SPCC's out = 0 CCC's out = 0

Thu Oct 21 17:21:15 2010 RPT1

5.8.8

5

Initial Calibration Verification

Page 1 of 4

Job Number: JA58900

Sample: VV4577-ICV4452

Account: ENSRMAA AECOM, INC.

Lab FileID: V108514.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\V108514.D

Vial: 11

Acq On : 21 Oct 2010 3:08 pm

Operator: JIANHUAL

Sample : ICV4452-50

Inst : MSV

Misc : MS3346,VV4577,5,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MVS4452.M (RTE Integrator)

Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Thu Oct 21 17:19:02 2010

Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	104	0.00	7.45
2	tertiary butyl alcohol		-----NA-----				
3	1,4-dioxane		-----NA-----				
4 I	pentafluorobenzene	1.000	1.000	0.0	95	0.00	9.67
5	Freon 115		-----NA-----				
6	Freon 23		-----NA-----				
7	Freon 143A		-----NA-----				
8	Freon 152A		-----NA-----				
9	Freon 114		-----NA-----				
10	Freon 142B		-----NA-----				
11	Chlorotrifluoroethene		-----NA-----				
12	1,3-Butadiene		-----NA-----				
13	chlorodifluoromethane		-----NA-----				
14	dichlorodifluoromethane		-----NA-----				
15	chloromethane		-----NA-----				
16	vinyl chloride		-----NA-----				
17	bromomethane		-----NA-----				
18	chloroethane		-----NA-----				
19	trichlorofluoromethane		-----NA-----				
20	Vinyl Bromide	0.537	0.580	-8.0	104	0.00	5.91
21	ethyl ether		-----NA-----				
22	Acetaldehyde		-----NA-----				
23	Pentane		-----NA-----				
24	Freon 123A		-----NA-----				
25	Freon 141B		-----NA-----				
26	Freon 123		-----NA-----				
27	acrolein		-----NA-----				
28	freon 113		-----NA-----				
29	1,1-dichloroethene		-----NA-----				
30	acetone		-----NA-----				
31	iso-butyl alcohol		-----NA-----				
32	allyl chloride		-----NA-----				
33	acetonitrile		-----NA-----				
34	iodomethane		-----NA-----				
35	carbon disulfide		-----NA-----				
36	methylene chloride		-----NA-----				
	----- True		Calc.	% Drift	-----		
37	methyl acetate		-----NA-----				
	----- AvgRF		CCRF	% Dev	-----		

Initial Calibration Verification

Page 2 of 4

Job Number: JA58900

Sample: VV4577-ICV4452

Account: ENSRMAA AECOM, INC.

Lab FileID: V108514.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

38	methyl tert butyl ether								-----NA-----
39	trans-1,2-dichloroethene								-----NA-----
40	di-isopropyl ether								-----NA-----
41	2-butanone								-----NA-----
42	1,1-dichloroethane								-----NA-----
43	chloroprene								-----NA-----
44	acrylonitrile								-----NA-----
		----- True		Calc.	% Drift				-----
45	vinyl acetate								-----NA-----
		----- AvgRF		CCRF	% Dev				-----
46	ethyl tert-butyl ether								-----NA-----
47	ethyl acetate								-----NA-----
48	2,2-dichloropropane								-----NA-----
49	cis-1,2-dichloroethene								-----NA-----
50	propionitrile								-----NA-----
51	methyl acrylate								-----NA-----
52	methacrylonitrile								-----NA-----
53	bromochloromethane								-----NA-----
54	tetrahydrofuran								-----NA-----
55	chloroform								-----NA-----
56	tert-Butyl Formate								-----NA-----
57 S	dibromofluoromethane (s)	0.574	0.569	0.9	97	0.00	9.73		
58 S	1,2-dichloroethane-d4 (s)	0.579	0.576	0.5	97	0.00	10.16		
59	1,1,1-trichloroethane								-----NA-----
60	Cyclohexane								-----NA-----
		----- True		Calc.	% Drift				-----
61	Tert Amyl Alcohol								-----NA-----
		----- AvgRF		CCRF	% Dev				-----
62 I	1,4-difluorobenzene	1.000	1.000	0.0	91	0.00	10.62		
63	methylcyclohexane								-----NA-----
64	epichlorohydrin								-----NA-----
65	n-butyl alcohol								-----NA-----
66	carbon tetrachloride								-----NA-----
67	1,1-dichloropropene								-----NA-----
		----- True		Calc.	% Drift				-----
68	hexane								-----NA-----
		----- AvgRF		CCRF	% Dev				-----
69	2,2,4-Trimethylpentane								-----NA-----
70	benzene								-----NA-----
71	tert-amyl methyl ether								-----NA-----
72	heptane								-----NA-----
		----- True		Calc.	% Drift				-----
73	isopropyl acetate								-----NA-----
		----- AvgRF		CCRF	% Dev				-----
74	1,2-dichloroethane								-----NA-----
75	trichloroethene								-----NA-----
76	Ethyl Acrylate								-----NA-----
77	tert-Amyl Ethyl Ether								-----NA-----
		----- True		Calc.	% Drift				-----
78	2-nitropropane								-----NA-----

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Initial Calibration Verification

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Job Number: JA58900

Sample: VV4577-ICV4452

Account: ENSRMAA AECOM, INC.

Lab FileID: V108514.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

		AvgRF	CCRF	% Dev			
79	2-chloroethyl vinyl ether			NA			
80	methyl methacrylate			NA			
81	1,2-dichloropropane			NA			
82	dibromomethane			NA			
83	bromodichloromethane			NA			
84	cis-1,3-dichloropropene			NA			
85 S	toluene-d8 (s)	1.286	1.330	-3.4	95	0.00	12.35
86	4-methyl-2-pentanone			NA			
87	toluene			NA			
88	isoamyl alcohol			NA			
89	trans-1,3-dichloropropene			NA			
90	ethyl methacrylate			NA			
91	1,1,2-trichloroethane			NA			
92	2-hexanone			NA			
93 I	chlorobenzene-d5	1.000	1.000	0.0	96	0.00	14.03
94	tetrachloroethene			NA			
95	1,3-dichloropropane			NA			
96	butyl acetate	True	Calc.	% Drift			
				NA			
		AvgRF	CCRF	% Dev			
97	3,3-Dimethyl-1-Butanol			NA			
98	dibromochloromethane			NA			
99	1,2-dibromoethane			NA			
100	chlorobenzene			NA			
101	1,1,1,2-tetrachloroethane			NA			
102	ethylbenzene			NA			
103	m,p-xylene			NA			
104	o-xylene			NA			
105	styrene			NA			
106	Butyl Acrylate			NA			
107	bromoform			NA			
108	cyclohexanone			NA			
109 S	4-bromofluorobenzene (s)	0.566	0.525	7.2	96	0.00	15.35
110 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	95	0.01	16.66
111	isopropylbenzene			NA			
112	bromobenzene			NA			
113	1,1,2,2-tetrachloroethane			NA			
114	trans-1,4-dichloro-2-bute			NA			
115	1,2,3-trichloropropane			NA			
116	n-propylbenzene			NA			
117	4-Ethyltoluene			NA			
118	2-chlorotoluene			NA			
119	4-chlorotoluene			NA			
120	1,3,5-trimethylbenzene			NA			
121	tert-butylbenzene			NA			
122	pentachloroethane			NA			
123	1,2,4-trimethylbenzene			NA			
124	sec-butylbenzene			NA			
125	1,3-dichlorobenzene			NA			
126	p-isopropyltoluene			NA			
127	1,2,3-Trimethylbenzene			NA			
128	1,4-dichlorobenzene			NA			
129	1,2-dichlorobenzene			NA			
130	Benzyl Chloride			NA			

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Initial Calibration Verification

Page 4 of 4

Job Number: JA58900

Sample: VV4577-ICV4452

Account: ENSRMAA AECOM, INC.

Lab FileID: V108514.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

131	Vinyl Toluene	-----NA-----
132	1,4-Diethylbenzene	-----NA-----
133	n-butylbenzene	-----NA-----
134	1,2,4,5-tetramethylbenzen	-----NA-----
135	1,2-dibromo-3-chloropropa	-----NA-----
136	1,3,5-trichlorobenzene	-----NA-----
137	1,2,4-trichlorobenzene	-----NA-----
138	hexachlorobutadiene	-----NA-----
139	naphthalene	-----NA-----
140	1,2,3-trichlorobenzene	-----NA-----
141	hexachloroethane	-----NA-----

(#) = Out of Range
v105734.d MVS4452.M

SPCC's out = 0 CCC's out = 0
Thu Oct 21 17:26:51 2010 RPT1

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Initial Calibration Summary

Page 1 of 6

Job Number: JA58900 Sample: VX4516-ICC4516
 Account: ENSRMAA AECOM, INC. Lab FileID: X106950.D
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Response Factor Report MSX

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

Calibration Files

1 =X106944.D 2 =X106946.D 100 =X106952.D 50 =X106950.D
 20 =X106949.D 200 =X106953.D 5 =X106945.D 10 =X106948.D
 0.5 =X106947.D =

Compound	1	2	100	50	20	200	5	10	0.5	Avg	%RSD
1) I tert butyl alcohol-d9 -----ISTD-----											
2) tertiary butyl alcohol											
	1.081	1.330	1.207	1.074	1.375	1.074	1.241			1.197	10.53
3) ethyl alcohol										0.000	-1.00
4) acrolein											
	1.863	1.670	2.158	2.079	1.981	2.155	1.709	2.045		1.957	9.77
5) 1,4-dioxane											
	0.111	0.094	0.081	0.114	0.067	0.089				0.093	18.99
----- Linear regression ----- Coefficient = 0.9987											
Response Ratio = -0.02655 + 0.11566 *A											
6) I pentafluorobenzene -----ISTD-----											
7) freon 23										0.000	-1.00
8) freon 115										0.000	-1.00
9) freon 143a										0.000	-1.00
10) freon 152a										0.000	-1.00
11) chlorotrifluoroethene										0.000	-1.00
12) chlorodifluoromethane										0.000	-1.00
	0.493	0.376	0.543	0.518	0.433	0.489	0.384	0.499		0.467	13.27
13) dichlorodifluoromethane											
	0.577	0.644	0.813	0.765	0.673	0.730	0.594	0.718		0.689	11.96
14) freon 114										0.000	-1.00
15) freon 142b										0.000	-1.00
16) chloromethane										0.000	-1.00
	0.963	1.011	1.009	0.978	0.923	0.840	0.891	1.039	0.921	0.953	6.75
17) vinyl chloride											
	0.706	0.768	0.806	0.796	0.745	0.710	0.700	0.806	0.597	0.737	9.19
18) acetaldehyde										0.000	-1.00
19) bromomethane											
	0.479	0.478	0.443	0.445	0.429		0.432	0.499	0.416	0.453	6.41
20) chloroethane											
	0.379	0.411	0.411	0.407	0.383	0.342	0.369	0.436		0.392	7.54
21) vinyl bromide											
	0.491	0.477	0.444	0.459	0.418	0.448	0.460			0.457	5.18

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Initial Calibration Summary

Page 2 of 6

Job Number: JA58900

Sample: VX4516-ICC4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X106950.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

22)	trichlorofluoromethane	0.648 0.793 0.857 0.807 0.756 0.766 0.685 0.810	0.765	9.00
23)	ethyl ether	0.184 0.215 0.261 0.249 0.217 0.251 0.223 0.269	0.234	12.26
24)	freon 141b		0.000	-1.00
25)	freon 123a		0.000	-1.00
26)	freon 123		0.000	-1.00
27)	1,1-dichloroethene	0.519 0.398 0.445 0.436 0.380 0.406 0.436 0.509	0.441	11.37
28)	acetone	0.035 0.033 0.033 0.034 0.040 0.060	0.039	27.16
	----- Linear regression -----	Coefficient = 0.9981		
	Response Ratio = 0.00154 + 0.03326 *A			
29)	allyl chloride	0.238 0.258 0.293 0.287 0.255 0.260 0.273 0.336	0.275	11.13
30)	acetonitrile	0.046 0.037 0.036 0.036 0.033 0.039 0.040	0.038	10.90
31)	iodomethane	0.821 0.747 0.912 0.861 0.729 0.853 0.796 0.947 0.640	0.812	11.81
32)	iso-butyl alcohol	0.006 0.005 0.004 0.006 0.004 0.006	0.005	19.20
	----- Linear regression -----	Coefficient = 0.9939		
	Response Ratio = -0.00401 + 0.00589 *A			
33)	carbon disulfide	1.777 1.548 1.895 1.794 1.612 1.742 1.672 1.980 1.658	1.742	7.88
34)	methylene chloride	0.612 0.511 0.517 0.494 0.433 0.482 0.502 0.564	0.514	10.45
35)	methyl acetate	0.064 0.060 0.058 0.060 0.052 0.062	0.060	6.79
36)	methyl tert butyl ether	1.273 1.288 1.310 1.279 1.136 1.206 1.269 1.434 1.429	1.292	7.34
37)	trans-1,2-dichloroethene	0.556 0.475 0.477 0.470 0.418 0.434 0.478 0.559 0.550	0.491	10.69
38)	di-isopropyl ether	1.813 1.575 1.738 1.701 1.587 1.539 1.580 1.898 1.817	1.694	7.68
39)	2-butanone	0.045 0.043 0.039 0.042 0.034 0.057	0.043	18.12
	----- Linear regression -----	Coefficient = 0.9978		
	Response Ratio = 0.00102 + 0.04244 *A			
40)	1,1-dichloroethane	0.897 0.860 0.915 0.901 0.796 0.832 0.866 1.056 0.847	0.886	8.35
41)	chloroprene	0.678 0.528 0.696 0.659 0.607 0.637 0.585 0.713 0.496	0.622	12.02
42)	acrylonitrile	0.132 0.138 0.129 0.129 0.121 0.117 0.137 0.144 0.135	0.131	6.28
43)	vinyl acetate	0.048 0.048 0.044 0.045 0.036 0.052	0.046	11.81
44)	ethyl tert-butyl ether	1.467 1.404 1.622 1.555 1.422 1.464 1.398 1.705 1.441	1.498	7.12
45)	ethyl acetate	0.043 0.042 0.041 0.039 0.041 0.046	0.042	5.48
46)	2,2-dichloropropane	0.812 0.703 0.785 0.776 0.665 0.698 0.728 0.871	0.755	9.08
47)	cis-1,2-dichloroethene			

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Initial Calibration Summary

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Job Number: JA58900

Sample: VX4516-ICC4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X106950.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	0.599	0.499	0.514	0.508	0.454	0.471	0.495	0.593	0.590	0.525	10.50
48)	propionitrile	0.047	0.058	0.053	0.051	0.047	0.051	0.054	0.055	0.052	7.04
49)	tert-Butyl Formate	0.305	0.321	0.425	0.396	0.368	0.387	0.338	0.437	0.372	12.87
50)	bromochloromethane	0.184	0.222	0.238	0.233	0.201	0.223	0.206	0.257	0.220	10.46
51)	tetrahydrofuran	0.156	0.144	0.140	0.133	0.134	0.158	0.162		0.147	8.15
52)	chloroform	0.852	0.807	0.828	0.815	0.722	0.763	0.807	0.938	0.810	7.67
53)	dibromofluoromethane (s)	0.461	0.437	0.375	0.405	0.401	0.448	0.464		0.427	7.99
54)	1,2-dichloroethane-d4 (s)	0.532	0.467	0.413	0.447	0.425	0.492	0.521		0.471	9.81
55)	freon 113	0.364	0.350	0.316	0.317	0.338	0.388			0.345	8.09
56)	methacrylonitrile	0.304	0.269	0.257	0.237	0.259	0.287	0.292		0.272	8.60
57)	1,1,1-trichloroethane	0.702	0.639	0.751	0.723	0.596	0.688	0.651	0.788	0.608	9.52
58)	cyclohexane	0.700	0.602	0.731	0.713	0.604	0.663	0.652	0.785	0.574	10.35
59)	tert amyl alcohol									0.000	-1.00
60)	iso-octane	2.171	1.551	1.878	1.855	1.741	1.591	1.716	2.112	1.709	11.81
61)	I 1,4-difluorobenzene	-----ISTD-----									
62)	di-isobutylene									0.000	-1.00
63)	epichlorohydrin	0.022	0.021	0.023	0.022	0.021	0.021	0.024	0.026	0.022	7.41
64)	n-butyl alcohol	0.008	0.008	0.008	0.008	0.007	0.008	0.007	0.008	0.008	4.73
65)	carbon tetrachloride	0.433	0.360	0.409	0.398	0.350	0.371	0.396	0.460	0.336	10.33
66)	1,1-dichloropropene	0.459	0.394	0.434	0.422	0.375	0.396	0.415	0.499	0.411	8.88
67)	hexane	0.060	0.056	0.053	0.053	0.042	0.064			0.055	13.52
68)	benzene	1.406	1.232	1.139	1.147	1.051	1.021	1.254	1.428	1.343	12.06
69)	tert-amyl methyl ether	0.906	0.832	0.805	0.783	0.766	0.720	0.813	0.948	0.963	10.01
70)	heptane	0.278	0.197	0.258	0.248	0.234	0.231	0.217	0.272	0.242	11.46
71)	isopropyl acetate	0.772	0.680	0.686	0.667	0.588	0.730	0.787		0.701	9.73
72)	1,2-dichloroethane	0.341	0.370	0.323	0.324	0.305	0.299	0.355	0.402	0.326	9.68
73)	trichloroethene	0.316	0.288	0.332	0.318	0.273	0.308	0.306	0.358	0.312	8.34
74)	ethyl acrylate									0.000	-1.00
75)	tert amyl ethyl ether									0.000	-1.00
76)	2-nitropropane	0.004	0.004	0.003	0.004					0.004	15.49
	----- Linear regression -----	Coefficient = 0.9994									

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Initial Calibration Summary

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Job Number: JA58900

Sample: VX4516-ICC4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X106950.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Response Ratio = -0.00050 + 0.00440 *A

77)	2-chloroethyl vinyl ether	0.112	0.109	0.119	0.110	0.105	0.106	0.109	0.127	0.105	0.111	6.55
78)	methyl methacrylate	0.191	0.178	0.164	0.163	0.154	0.153	0.175	0.194	0.135	0.167	11.44
79)	1,2-dichloropropane	0.350	0.322	0.336	0.336	0.298	0.310	0.339	0.388	0.291	0.330	8.93
80)	dibromomethane	0.132	0.161	0.176	0.167	0.149	0.165	0.170	0.193		0.164	10.93
81)	methylcyclohexane	0.568	0.411	0.565	0.542	0.509	0.494	0.472	0.594	0.461	0.513	11.58
82)	bromodichloromethane	0.381	0.413	0.428	0.412	0.362	0.396	0.411	0.478	0.402	0.409	7.92
83)	cis-1,3-dichloropropene	0.531	0.542	0.554	0.545	0.482	0.505	0.540	0.625	0.567	0.543	7.34
84)	toluene-d8 (s)	1.178	1.051	0.959	1.049	0.903	1.217	1.273			1.090	12.55
85)	4-methyl-2-pentanone	0.084	0.102	0.110	0.104	0.096	0.105	0.104	0.115		0.102	9.25
86)	toluene	0.995	0.838	0.760	0.761	0.668	0.689	0.825	0.921		0.807	13.81
87)	3-methyl-1-butanol	0.017	0.013	0.013	0.012	0.012	0.011	0.012	0.013	0.013	0.013	13.47
88)	trans-1,3-dichloropropene	0.485	0.493	0.462	0.458	0.409	0.419	0.464	0.538	0.508	0.471	8.69
89)	ethyl methacrylate	0.393	0.363	0.336	0.335	0.312	0.304	0.355	0.397	0.393	0.354	9.91
90)	1,1,2-trichloroethane	0.222	0.220	0.221	0.215	0.193	0.205	0.219	0.252	0.203	0.217	7.54
91)	2-hexanone	0.088	0.106	0.090	0.090	0.089	0.084	0.099	0.120		0.096	12.37
92)	I chlorobenzene-d5	-----ISTD-----										
93)	3,3-Dimethyl-1-butanol	0.032	0.031	0.030	0.026	0.025	0.027	0.025	0.028	0.036	0.029	12.62
94)	tetrachloroethene	0.307	0.269	0.305	0.294	0.260	0.286	0.298	0.347	0.270	0.293	8.96
95)	1,3-dichloropropane	0.463	0.486	0.430	0.428	0.403	0.394	0.471	0.529	0.507	0.457	10.11
96)	butyl acetate	0.223	0.202	0.198	0.187	0.188	0.185	0.202	0.230	0.223	0.204	8.41
97)	dibromochloromethane	0.349	0.339	0.335	0.325	0.290	0.316	0.336	0.379	0.309	0.331	7.65
98)	1,2-dibromoethane	0.278	0.280	0.285	0.272	0.243	0.271	0.279	0.309	0.259	0.275	6.60
99)	n-butyl ether										0.000	-1.00
100)	chlorobenzene	0.924	0.862	0.907	0.887	0.768	0.827	0.883	1.024	0.876	0.884	7.90
101)	1,1,1,2-tetrachloroethane	0.330	0.315	0.311	0.304	0.279	0.284	0.322	0.370	0.287	0.311	9.02
102)	ethylbenzene	1.786	1.562	1.474	1.495	1.364	1.279	1.612	1.845	1.648	1.563	11.78
103)	m,p-xylene	0.700	0.605	0.568	0.567	0.520	0.507	0.616	0.711	0.654	0.605	12.05
104)	o-xylene	0.677	0.624	0.626	0.614	0.543	0.559	0.628	0.734	0.684	0.632	9.47
105)	styrene	1.168	1.088	0.939	0.950	0.883	0.830	1.043	1.203		1.013	13.25

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Initial Calibration Summary

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Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VX4516-ICC4516
Lab FileID: X106950.D

106)	bromoform	0.216	0.220	0.230	0.219	0.192	0.216	0.217	0.244	0.195	0.217	7.35
107)	I 1,4-dichlorobenzene-d -----ISTD-----											
108)	isopropylbenzene	3.765	3.298	3.394	3.417	3.029	3.021	3.516	4.029	3.520	3.443	9.37
109)	4-bromofluorobenzene (s)	1.112	0.961	0.862	0.929	0.869	1.052	1.087			0.982	10.43
110)	bromobenzene	0.856	0.829	0.815	0.813	0.703	0.754	0.856	0.942	0.872	0.827	8.34
111)	1,1,2,2-tetrachloroethane	0.762	0.811	0.777	0.749	0.658	0.745	0.760	0.830	0.784	0.764	6.39
112)	trans-1,4-dichloro-2-butene	0.178	0.215	0.227	0.219	0.200	0.208	0.219	0.252		0.215	9.94
113)	1,2,3-trichloropropane	0.163	0.170	0.159	0.158	0.150	0.149	0.177	0.189		0.164	8.24
114)	n-propylbenzene	4.603	4.061	3.729	3.793	3.460	3.269	4.130	4.685	4.340	4.008	12.19
115)	4-ethyltoluene										0.000	-1.00
116)	2-chlorotoluene	0.891	0.800	0.832	0.810	0.701	0.770	0.798	0.939	0.755	0.811	8.76
117)	4-chlorotoluene	2.825	2.490	2.465	2.411	2.143	2.231	2.521	2.888	2.942	2.546	11.12
118)	1,3,5-trimethylbenzene	3.167	2.795	2.607	2.644	2.378	2.301	2.823	3.230	3.015	2.773	11.74
119)	tert-butylbenzene	2.636	2.376	2.517	2.445	2.115	2.273	2.464	2.813	2.428	2.452	8.16
120)	pentachloroethane	0.437	0.460	0.483	0.473	0.403	0.454	0.468	0.537	0.401	0.457	9.14
121)	1,2,4-trimethylbenzene	3.377	2.904	2.703	2.724	2.439	2.396	2.821	3.264	3.348	2.886	12.85
122)	1,2,3-trimethylbenzene										0.000	-1.00
123)	sec-butylbenzene	4.035	3.504	3.711	3.676	3.192	3.270	3.643	4.240	3.777	3.672	9.07
124)	1,3-dichlorobenzene	1.695	1.566	1.552	1.517	1.328	1.441	1.568	1.810	1.757	1.581	9.63
125)	p-isopropyltoluene	3.310	2.876	3.041	3.007	2.596	2.686	2.965	3.493	3.131	3.012	9.36
126)	1,4-dichlorobenzene	1.606	1.470	1.537	1.453	1.249	1.431	1.430	1.662	1.669	1.501	8.91
127)	1,2-dichlorobenzene	1.514	1.377	1.485	1.421	1.238	1.368	1.388	1.653	1.547	1.444	8.39
128)	benzyl chloride	1.562	1.418	1.593	1.474	1.359	1.452	1.348	1.621	1.670	1.500	7.77
129)	1,4-diethylbenzene										0.000	-1.00
130)	n-butylbenzene	1.664	1.517	1.730	1.662	1.415	1.545	1.592	1.877	1.513	1.613	8.54
131)	1,2,4,5-tetramethylbenzene										0.000	-1.00
132)	1,2-dibromo-3-chloropropane	0.162	0.140	0.130	0.114	0.140	0.137	0.140			0.138	10.43
133)	1,3,5-trichlorobenzene	1.199	1.083	1.275	1.242	1.025	1.168	1.093	1.382	1.180	1.183	9.20
134)	hexachlorobutadiene	0.657	0.516	0.588	0.584	0.491	0.562	0.550	0.679	0.526	0.573	10.94
135)	naphthalene	1.471	1.548	1.893	1.776	1.491	1.784	1.517	1.895	1.691	1.674	10.24

5.8.10
5

Initial Calibration Summary

Page 6 of 6

Job Number: JA58900

Sample: VX4516-ICC4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X106950.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

136)	1,2,4-trichlorobenzene	0.810	0.845	1.055	1.007	0.819	0.995	0.825	1.098	0.881	0.926	12.14
137)	1,2,3-trichlorobenzene	0.659	0.667	0.878	0.836	0.682	0.817	0.672	0.911	0.712	0.759	13.21
138)	hexachloroethane	0.513	0.446	0.590	0.551	0.440	0.559	0.489	0.583		0.522	11.25

(#) = Out of Range ### Number of calibration levels exceeded format ###

MX4516.M

Wed Nov 03 11:26:18 2010

VOA-05

5.8.10

5

Initial Calibration Verification

Page 1 of 3

Job Number: JA58900

Sample: VX4516-ICV4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X106951.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\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

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 : Multiple Level Calibration

Min. RRF : 0.000 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	tert butyl alcohol-d9	1.000	1.000	0.0	116	0.00	7.37
2	tertiary butyl alcohol	1.197	1.132	5.4	109	0.00	7.50
3	ethyl alcohol			NA			
4	acrolein	1.957	1.936	1.1	108	0.00	6.42
	----- True		Calc.	% Drift			
5	1,4-dioxane	1250.000	1029.092	17.7	104	0.00	12.17
	----- AvgRF		CCRF	% Dev			
6 I	pentafluorobenzene	1.000	1.000	0.0	101	0.00	10.06
7 m	freon 23			NA			
8 m	freon 115			NA			
9 m	freon 143a			NA			
10 m	freon 152a			NA			
11 m	chlorotrifluoroethene			NA			
12	chlorodifluoromethane	0.467	0.477	-2.1	93	0.00	3.81
13	dichlorodifluoromethane	0.689	0.711	-3.2	94	0.00	3.79
14 m	freon 114			NA			
15 m	freon 142b			NA			
16	chloromethane	0.953	0.947	0.6	98	0.00	4.12
17	vinyl chloride	0.737	0.755	-2.4	96	0.00	4.38
18 m	acetaldehyde			NA			
19	bromomethane	0.453	0.424	6.4	96	0.00	5.04
20	chloroethane	0.392	0.389	0.8	97	0.00	5.22
21	trichlorofluoromethane	0.765	0.768	-0.4	96	0.00	5.66
22	ethyl ether	0.234	0.252	-7.7	102	0.00	6.13
23 m	freon 141b			NA			
24 m	freon 123a			NA			
25 m	freon 123			NA			
26	1,1-dichloroethene	0.441	0.422	4.3	98	0.00	6.58
	----- True		Calc.	% Drift			
27	acetone	50.000	47.443	5.1	103	0.00	6.66
	----- AvgRF		CCRF	% Dev			
28	allyl chloride	0.275	0.276	-0.4	97	0.00	7.18
29	acetonitrile	0.038	0.037	2.6	104	0.01	7.17
30	iodomethane	0.812	0.842	-3.7	99	0.00	6.88
	----- True		Calc.	% Drift			
31	iso-butyl alcohol	500.000	525.458	-5.1	129	0.00	10.38

5.8.11
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Initial Calibration Verification

Page 2 of 3

Job Number: JA58900

Sample: VX4516-ICV4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X106951.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

		AvgRF	CCRF	% Dev			
32	carbon disulfide	1.742	1.731	0.6	98	0.00	7.02
33	methylene chloride	0.514	0.484	5.8	99	0.00	7.40
34	methyl acetate	0.060	0.062	-3.3	104	0.00	7.16
35	methyl tert butyl ether	1.292	1.314	-1.7	104	0.00	7.75
36	trans-1,2-dichloroethene	0.491	0.452	7.9	97	0.00	7.82
37	di-isopropyl ether	1.694	1.661	1.9	99	0.00	8.45
		True	Calc.	% Drift			
38	2-butanone	50.000	53.441	-6.9	109	0.01	9.37
		AvgRF	CCRF	% Dev			
39	1,1-dichloroethane	0.886	0.881	0.6	99	0.00	8.49
40	chloroprene	0.622	0.615	1.1	94	0.00	8.61
41	acrylonitrile	0.131	0.137	-4.6	107	0.00	7.78
42	vinyl acetate	0.046	0.049	-6.5	102	0.00	8.48
43	ethyl tert-butyl ether	1.498	1.523	-1.7	99	0.00	9.02
44	ethyl acetate	0.042	0.044	-4.8	105	0.00	9.39
45	2,2-dichloropropane	0.755	0.740	2.0	96	0.00	9.38
46	cis-1,2-dichloroethene	0.525	0.498	5.1	99	0.00	9.40
47	propionitrile	0.052	0.054	-3.8	108	0.00	9.51
48	tert-Butyl Formate	0.372	0.397	-6.7	101	0.00	9.89
49	bromochloromethane	0.220	0.230	-4.5	100	0.00	9.79
50	tetrahydrofuran	0.147	0.149	-1.4	107	0.00	9.82
51	chloroform	0.810	0.801	1.1	99	0.00	9.87
52 S	dibromofluoromethane (s)	0.427	0.410	4.0	111	0.00	10.12
53 S	1,2-dichloroethane-d4 (s)	0.471	0.454	3.6	111	0.00	10.65
54	freon 113	0.345	0.326	5.5	94	0.00	6.56
55	methacrylonitrile	0.272	0.267	1.8	105	0.00	9.72
56	1,1,1-trichloroethane	0.683	0.695	-1.8	97	0.00	10.16
57	cyclohexane	0.669	0.687	-2.7	97	0.00	10.23
58 m	tert amyl alcohol			NA			
59 m	iso-octane	1.814	1.727	4.8	94	0.00	10.71
60 I	1,4-difluorobenzene	1.000	1.000	0.0	101	0.00	11.22
61	di-isobutylene			NA			
62	epichlorohydrin	0.022	0.022	0.0	103	0.00	12.76
63	n-butyl alcohol	0.008	0.008	0.0	109	0.00	11.43
64	carbon tetrachloride	0.390	0.384	1.5	98	0.00	10.40
65	1,1-dichloropropene	0.423	0.408	3.5	98	0.00	10.38
66	hexane	0.055	0.052	5.5	94	0.01	8.16
67	benzene	1.225	1.113	9.1	98	0.00	10.72
68	tert-amyl methyl ether	0.837	0.776	7.3	100	0.00	10.77
69	heptane	0.242	0.226	6.6	92	0.00	10.95
70	isopropyl acetate	0.701	0.667	4.9	98	0.00	10.66
71	1,2-dichloroethane	0.338	0.327	3.3	102	0.00	10.76
72	trichloroethene	0.302	0.310	-2.6	99	0.00	11.65
73 m	ethyl acrylate			NA			
74 m	tert amyl ethyl ether			NA			
75	2-nitropropane			NA			
76	2-chloroethyl vinyl ether	0.111	0.112	-0.9	103	0.00	12.76
77	methyl methacrylate	0.167	0.169	-1.2	105	0.00	12.05
78	1,2-dichloropropane	0.330	0.328	0.6	99	0.00	12.02
79	dibromomethane	0.164	0.168	-2.4	102	0.00	12.23
80	methylcyclohexane	0.513	0.504	1.8	94	0.00	11.92
81	bromodichloromethane	0.409	0.405	1.0	100	0.00	12.42
82	cis-1,3-dichloropropene	0.543	0.537	1.1	100	0.00	13.04
83 S	toluene-d8 (s)	1.090	1.025	6.0	108	0.00	13.41
84	4-methyl-2-pentanone	0.102	0.110	-7.8	107	0.00	13.18

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Initial Calibration Verification

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Job Number: JA58900

Sample: VX4516-ICV4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X106951.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

85	toluene	0.807	0.731	9.4	97	0.00	13.51
86	3-methyl-1-butanol	0.013	0.013	0.0	109	0.00	13.23
87	trans-1,3-dichloropropene	0.471	0.459	2.5	101	0.00	13.80
88	ethyl methacrylate	0.354	0.346	2.3	104	0.00	13.81
89	1,1,2-trichloroethane	0.217	0.216	0.5	101	0.00	14.09
90	2-hexanone	0.096	0.097	-1.0	108	0.00	14.34
91 I	chlorobenzene-d5	1.000	1.000	0.0	101	0.00	15.43
92	3,3-Dimethyl-1-butanol	0.029	0.029	0.0	112	0.00	14.58
93	tetrachloroethene	0.293	0.283	3.4	97	0.00	14.28
94	1,3-dichloropropane	0.457	0.436	4.6	103	0.00	14.33
95	butyl acetate	0.204	0.194	4.9	105	0.00	14.45
96	dibromochloromethane	0.331	0.326	1.5	101	0.00	14.67
97	1,2-dibromoethane	0.275	0.276	-0.4	103	0.00	14.86
98 m	n-butyl ether	-----NA-----					
99	chlorobenzene	0.884	0.858	2.9	98	0.00	15.47
100	1,1,1,2-tetrachloroethane	0.311	0.303	2.6	101	0.00	15.57
101	ethylbenzene	1.563	1.436	8.1	97	0.00	15.55
102	m,p-xylene	0.605	0.547	9.6	98	0.00	15.70
103	o-xylene	0.632	0.597	5.5	98	0.00	16.24
104	styrene	1.013	0.930	8.2	99	0.00	16.26
105	bromoform	0.217	0.222	-2.3	103	0.00	16.60
106 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	18.21
107	isopropylbenzene	3.443	3.279	4.8	98	0.00	16.68
108 S	4-bromofluorobenzene (s)	0.982	0.929	5.4	110	0.00	16.93
109	bromobenzene	0.827	0.792	4.2	99	0.00	17.14
110	1,1,2,2-tetrachloroethane	0.764	0.777	-1.7	106	0.00	17.08
111	trans-1,4-dichloro-2-bute	0.215	0.228	-6.0	106	0.00	17.13
112	1,2,3-trichloropropane	0.164	0.167	-1.8	107	0.00	17.15
113	n-propylbenzene	4.008	3.628	9.5	98	0.00	17.17
114 m	4-ethyltoluene	-----NA-----					
115	2-chlorotoluene	0.811	0.785	3.2	99	0.00	17.33
116	4-chlorotoluene	2.546	2.337	8.2	99	0.00	17.44
117	1,3,5-trimethylbenzene	2.773	2.554	7.9	99	0.00	17.35
118	tert-butylbenzene	2.452	2.349	4.2	98	0.00	17.72
119	pentachloroethane	0.457	0.462	-1.1	100	0.00	17.82
120	1,2,4-trimethylbenzene	2.886	2.634	8.7	99	0.00	17.77
121 m	1,2,3-trimethylbenzene	-----NA-----					
122	sec-butylbenzene	3.672	3.517	4.2	98	0.00	17.95
123	1,3-dichlorobenzene	1.581	1.471	7.0	99	0.00	18.15
124	p-isopropyltoluene	3.012	2.897	3.8	98	0.00	18.08
125	1,4-dichlorobenzene	1.501	1.433	4.5	101	0.00	18.23
126	1,2-dichlorobenzene	1.444	1.413	2.1	101	0.00	18.62
127	benzyl chloride	1.500	1.468	2.1	102	0.00	18.35
128 m	1,4-diethylbenzene	-----NA-----					
129	n-butylbenzene	1.613	1.601	0.7	98	0.00	18.50
130 m	1,2,4,5-tetramethylbenzen	-----NA-----					
131	1,2-dibromo-3-chloropropa	0.138	0.138	0.0	108	0.00	19.38
132	1,3,5-trichlorobenzene	1.183	1.219	-3.0	100	0.00	19.54
133	hexachlorobutadiene	0.573	0.565	1.4	99	0.00	20.25
134	naphthalene	1.674	1.866	-11.5	107	0.00	20.43
135	1,2,4-trichlorobenzene	0.926	1.011	-9.2	102	0.00	20.15
136 m	1,2,3-trichlorobenzene	0.759	0.844	-11.2	103	0.00	20.67
137	hexachloroethane	0.508	0.527	-3.7	98	0.00	18.86

(#) = Out of Range
X106950.D MX4516.M

SPCC's out = 0 CCC's out = 0
Tue Sep 14 15:11:18 2010 MSX

Initial Calibration Verification

Page 1 of 4

Job Number: JA58900

Sample: VX4516-ICV4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X108247.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

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,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
 Last Update : Mon Oct 25 16:35:25 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.000 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	tert butyl alcohol-d9	1.000	1.000	0.0	143	-0.03	7.34
2	tertiary butyl alcohol		-----NA-----				
3	ethyl alcohol		-----NA-----				
4	acrolein		-----NA-----				
	----- True	Calc.	% Drift	-----			
5	1,4-dioxane		-----NA-----				
	----- AvgRF	CCRF	% Dev	-----			
6 I	pentafluorobenzene	1.000	1.000	0.0	172	-0.02	10.03
7 m	freon 23		-----NA-----				
8 m	freon 115		-----NA-----				
9 m	freon 143a		-----NA-----				
10 m	freon 152a		-----NA-----				
11 m	chlorotrifluoroethene		-----NA-----				
12	chlorodifluoromethane		-----NA-----				
13	dichlorodifluoromethane		-----NA-----				
14 m	freon 114		-----NA-----				
15 m	freon 142b		-----NA-----				
16	chloromethane		-----NA-----				
17	vinyl chloride		-----NA-----				
18 m	acetaldehyde		-----NA-----				
19	bromomethane		-----NA-----				
20	chloroethane		-----NA-----				
21	vinyl bromide	0.457	0.438	4.2	170	-0.02	5.55
22	trichlorofluoromethane		-----NA-----				
23	ethyl ether		-----NA-----				
24 m	freon 141b		-----NA-----				
25 m	freon 123a		-----NA-----				
26 m	freon 123		-----NA-----				
27	1,1-dichloroethene		-----NA-----				
	----- True	Calc.	% Drift	-----			
28	acetone		-----NA-----				
	----- AvgRF	CCRF	% Dev	-----			
29	allyl chloride		-----NA-----				
30	acetonitrile		-----NA-----				
31	iodomethane		-----NA-----				
	----- True	Calc.	% Drift	-----			

Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VX4516-ICV4516
Lab FileID: X108247.D

5.8.12


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ACCUTEST.
 LA58900 LABORATORIES

Initial Calibration Verification

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VX4516-ICV4516

Lab FileID: X108247.D

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81	methylcyclohexane							
82	bromodichloromethane							
83	cis-1,3-dichloropropene							
84 S	toluene-d8 (s)	1.090	1.190	-9.2	181	-0.03	13.38	
85	4-methyl-2-pentanone							
86	toluene							
87	3-methyl-1-butanol							
88	trans-1,3-dichloropropene							
89	ethyl methacrylate							
90	1,1,2-trichloroethane							
91	2-hexanone							
92 I	chlorobenzene-d5	1.000	1.000	0.0	149	-0.03	15.41	
93	3,3-Dimethyl-1-butanol							
94	tetrachloroethene							
95	1,3-dichloropropane							
96	butyl acetate							
97	dibromochloromethane							
98	1,2-dibromoethane							
99 m	n-butyl ether							
100	chlorobenzene							
101	1,1,1,2-tetrachloroethane							
102	ethylbenzene							
103	m,p-xylene							
104	o-xylene							
105	styrene							
106	bromoform							
107 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	150	-0.02	18.19	
108	isopropylbenzene							
109 S	4-bromofluorobenzene (s)	0.982	1.098	-11.8	191	-0.02	16.91	
110	bromobenzene							
111	1,1,2,2-tetrachloroethane							
112	trans-1,4-dichloro-2-bute							
113	1,2,3-trichloropropane							
114	n-propylbenzene							
115 m	4-ethyltoluene							
116	2-chlorotoluene							
117	4-chlorotoluene							
118	1,3,5-trimethylbenzene							
119	tert-butylbenzene							
120	pentachloroethane							
121	1,2,4-trimethylbenzene							
122 m	1,2,3-trimethylbenzene							
123	sec-butylbenzene							
124	1,3-dichlorobenzene							
125	p-isopropyltoluene							
126	1,4-dichlorobenzene							
127	1,2-dichlorobenzene							
128	benzyl chloride							
129 m	1,4-diethylbenzene							
130	n-butylbenzene							
131 m	1,2,4,5-tetramethylbenzen							
132	1,2-dibromo-3-chloropropa							
133	1,3,5-trichlorobenzene							
134	hexachlorobutadiene							
135	naphthalene							
136	1,2,4-trichlorobenzene							
137 m	1,2,3-trichlorobenzene							
138	hexachloroethane							

5.8.12

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Initial Calibration Verification

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VX4516-ICV4516

Lab FileID: X108247.D

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(#) = Out of Range
X106950.D MX4516.M

SPCC's out = 0 CCC's out = 0
Wed Nov 03 12:06:19 2010 MSX

5.8.12

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Continuing Calibration Summary

Page 1 of 4

Job Number: JA58900

Sample: VX4579-CC4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X108347.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108347.D Vial: 3
 Acq On : 26 Oct 2010 12:51 pm Operator: JUNTAEP
 Sample : cc4516-20 Inst : MSX
 Misc : MS3790,vx4579,5.0,,,,,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
 Last Update : Mon Oct 25 16:35:25 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.000 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	tert butyl alcohol-d9	1.000	1.000	0.0	96	-0.02	7.35
2	tertiary butyl alcohol	1.197	1.300	-8.6	117	-0.01	7.49
3	ethyl alcohol			NA			
4	acrolein	1.957	1.942	0.8	95	0.00	6.41
	----- True	Calc.	% Drift	-----			
5	1,4-dioxane	500.000	591.874	-18.4	131	-0.01	12.16
	----- True	Calc.	% Drift	-----			
6 I	pentafluorobenzene	1.000	1.000	0.0	108	0.00	10.05
7 m	freon 23			NA			
8 m	freon 115			NA			
9 m	freon 143a			NA			
10 m	freon 152a			NA			
11 m	chlorotrifluoroethene			NA			
12	chlorodifluoromethane	0.467	0.381	18.4	95	0.00	3.81
13	dichlorodifluoromethane	0.689	0.894	-29.8#	143	0.00	3.79
14 m	freon 114			NA			
15 m	freon 142b			NA			
16	chloromethane	0.953	0.864	9.3	101	0.00	4.11
17	vinyl chloride	0.737	0.702	4.7	102	-0.01	4.37
18 m	acetaldehyde			NA			
19	bromomethane	0.453	0.426	6.0	107	0.00	5.04
20	chloroethane	0.392	0.407	-3.8	115	0.00	5.22
21	vinyl bromide	0.457	0.460	-0.7	108	0.01	5.57
22	trichlorofluoromethane	0.765	0.987	-29.0#	141	0.00	5.67
23	ethyl ether	0.234	0.248	-6.0	123	-0.02	6.11
24 m	freon 141b			NA			
25 m	freon 123a			NA			
26 m	freon 123			NA			
27	1,1-dichloroethene	0.441	0.460	-4.3	130	-0.01	6.57
	----- True	Calc.	% Drift	-----			
28	acetone	20.000	15.452	22.7#	98	0.00	6.65
	----- True	Calc.	% Drift	-----			
29	allyl chloride	0.275	0.294	-6.9	124	0.00	7.17
30	acetonitrile	0.038	0.035	7.9	104	0.00	7.16
31	iodomethane	0.812	0.940	-15.8	139	0.00	6.88
	----- True	Calc.	% Drift	-----			

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Continuing Calibration Summary

Page 2 of 4

Job Number: JA58900

Sample: VX4579-CC4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X108347.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

32	iso-butyl alcohol	200.000	167.413	16.3	109	-0.01	10.38
	----- AvgRF	CCRF	% Dev	-----			
33	carbon disulfide	1.742	1.789	-2.7	120	0.00	7.01
34	methylene chloride	0.514	0.519	-1.0	129	-0.01	7.39
35	methyl acetate	0.060	0.055	8.3	102	0.00	7.15
36	methyl tert butyl ether	1.292	1.326	2.3	126	-0.02	7.74
37	trans-1,2-dichloroethene	0.491	0.486	1.0	125	0.00	7.81
38	di-isopropyl ether	1.694	1.612	4.8	110	0.00	8.45
	----- True	Calc.	% Drift	-----			
39	2-butanone	20.000	19.534	2.3	122	0.00	9.36
	----- AvgRF	CCRF	% Dev	-----			
40	1,1-dichloroethane	0.886	0.963	-8.7	130	0.00	8.48
41	chloroprene	0.622	0.732	-17.7	130	0.00	8.60
42	acrylonitrile	0.131	0.127	3.1	113	-0.02	7.77
43	vinyl acetate	0.046	0.063	-37.0#	155	0.00	8.47
44	ethyl tert-butyl ether	1.498	1.601	-6.9	121	0.00	9.02
45	ethyl acetate	0.042	0.046	-9.5	120	-0.01	9.38
46	2,2-dichloropropane	0.755	0.815	-7.9	132	0.00	9.37
47	cis-1,2-dichloroethene	0.525	0.539	-2.7	128	-0.01	9.38
48	propionitrile	0.052	0.050	3.8	113	-0.01	9.49
49	tert-Butyl Formate	0.372	0.423	-13.7	124	-0.02	9.88
50	bromochloromethane	0.220	0.253	-15.0	136	0.00	9.78
51	tetrahydrofuran	0.147	0.140	4.8	113	-0.02	9.81
52	chloroform	0.810	0.931	-14.9	139	-0.01	9.86
53 S	dibromofluoromethane (s)	0.427	0.414	3.0	110	-0.01	10.11
54 S	1,2-dichloroethane-d4 (s)	0.471	0.478	-1.5	115	-0.01	10.63
55	freon 113	0.345	0.359	-4.1	123	0.00	6.56
56	methacrylonitrile	0.272	0.244	10.3	111	0.00	9.71
57	1,1,1-trichloroethane	0.683	0.823	-20.5#	149	0.00	10.16
58	cyclohexane	0.669	0.713	-6.6	127	0.00	10.23
59 m	tert amyl alcohol			-----NA-----			
60 m	iso-octane	1.814	1.881	-3.7	117	0.00	10.70
61 I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.00	11.22
62	di-isobutylene			-----NA-----			
63	epichlorohydrin	0.022	0.024	-9.1	110	-0.01	12.75
64	n-butyl alcohol	0.008	0.008	0.0	109	0.00	11.42
65	carbon tetrachloride	0.390	0.551	-41.3#	152	0.00	10.40
66	1,1-dichloropropene	0.423	0.516	-22.0#	133	0.00	10.38
67	hexane	0.055	0.053	3.6	96	0.00	8.15
68	benzene	1.225	1.363	-11.3	125	0.00	10.71
69	tert-amyl methyl ether	0.837	0.938	-12.1	118	0.00	10.77
70	heptane	0.242	0.252	-4.1	104	0.00	10.94
71	isopropyl acetate	0.701	0.810	-15.5	117	0.00	10.65
72	1,2-dichloroethane	0.338	0.472	-39.6#	149	-0.01	10.75
73	trichloroethene	0.312	0.392	-25.6#	138	0.00	11.65
74 m	ethyl acrylate			-----NA-----			
75 m	tert amyl ethyl ether			-----NA-----			
	----- True	Calc.	% Drift	-----			
76	2-nitropropane	20.000	49.537	-147.7#	310	-0.01	12.73
	----- AvgRF	CCRF	% Dev	-----			
77	2-chloroethyl vinyl ether	0.111	0.123	-10.8	113	-0.01	12.75
78	methyl methacrylate	0.167	0.186	-11.4	117	-0.01	12.04
79	1,2-dichloropropane	0.330	0.374	-13.3	122	0.00	12.01
80	dibromomethane	0.164	0.217	-32.3#	140	-0.01	12.22

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Continuing Calibration Summary

Page 3 of 4

Job Number: JA58900

Sample: VX4579-CC4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X108347.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

81	methylcyclohexane	0.513	0.576	-12.3	109	0.00	11.92
82	bromodichloromethane	0.409	0.527	-28.9#	141	-0.01	12.41
83	cis-1,3-dichloropropene	0.543	0.646	-19.0	130	0.00	13.03
84 S	toluene-d8 (s)	1.090	1.213	-11.3	112	0.00	13.40
85	4-methyl-2-pentanone	0.102	0.119	-16.7	121	0.00	13.17
86	toluene	0.807	0.906	-12.3	131	-0.01	13.50
87	3-methyl-1-butanol	0.013	0.014	-7.7	117	0.00	13.23
88	trans-1,3-dichloropropene	0.471	0.581	-23.4#	137	-0.01	13.79
89	ethyl methacrylate	0.354	0.389	-9.9	121	0.00	13.80
90	1,1,2-trichloroethane	0.217	0.258	-18.9	129	-0.01	14.08
91	2-hexanone	0.096	0.109	-13.5	118	0.00	14.33
92 I	chlorobenzene-d5	1.000	1.000	0.0	105	-0.01	15.43
93	3,3-Dimethyl-1-butanol	0.029	0.028	3.4	118	0.00	14.58
94	tetrachloroethene	0.293	0.352	-20.1#	142	0.00	14.28
95	1,3-dichloropropane	0.457	0.494	-8.1	129	0.00	14.32
96	butyl acetate	0.204	0.205	-0.5	115	0.00	14.44
97	dibromochloromethane	0.331	0.392	-18.4	142	-0.01	14.66
98	1,2-dibromoethane	0.275	0.320	-16.4	139	0.00	14.85
99 m	n-butyl ether			-----NA-----			
100	chlorobenzene	0.884	1.001	-13.2	137	0.00	15.47
101	1,1,1,2-tetrachloroethane	0.311	0.386	-24.1#	146	0.00	15.56
102	ethylbenzene	1.563	1.749	-11.9	135	0.00	15.55
103	m,p-xylene	0.605	0.669	-10.6	136	0.00	15.69
104	o-xylene	0.632	0.709	-12.2	138	0.00	16.24
105	styrene	1.013	1.152	-13.7	138	0.00	16.26
106	bromoform	0.217	0.276	-27.2#	151	0.00	16.59
107 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	113	0.00	18.20
108	isopropylbenzene	3.443	3.755	-9.1	141	0.00	16.68
109 S	4-bromofluorobenzene (s)	0.982	1.063	-8.2	130	0.00	16.92
110	bromobenzene	0.827	0.941	-13.8	152	0.00	17.14
111	1,1,2,2-tetrachloroethane	0.764	0.813	-6.4	140	0.00	17.07
112	trans-1,4-dichloro-2-bute	0.215	0.263	-22.3#	149	0.00	17.12
113	1,2,3-trichloropropane	0.164	0.190	-15.9	144	0.00	17.15
114	n-propylbenzene	4.008	4.286	-6.9	141	0.00	17.16
115 m	4-ethyltoluene			-----NA-----			
116	2-chlorotoluene	0.811	0.923	-13.8	149	0.00	17.32
117	4-chlorotoluene	2.546	2.824	-10.9	150	0.00	17.44
118	1,3,5-trimethylbenzene	2.773	3.106	-12.0	148	0.00	17.34
119	tert-butylbenzene	2.452	2.804	-14.4	150	0.00	17.72
120	pentachloroethane	0.457	0.586	-28.2#	165	0.00	17.81
121	1,2,4-trimethylbenzene	2.886	3.253	-12.7	151	0.00	17.77
122 m	1,2,3-trimethylbenzene			-----NA-----			
123	sec-butylbenzene	3.672	4.210	-14.7	150	0.00	17.95
124	1,3-dichlorobenzene	1.581	1.831	-15.8	157	0.00	18.14
125	p-isopropyltoluene	3.012	3.526	-17.1	154	0.00	18.08
126	1,4-dichlorobenzene	1.501	1.754	-16.9	159	0.00	18.23
127	1,2-dichlorobenzene	1.444	1.723	-19.3	158	0.00	18.62
128	benzyl chloride	1.500	1.525	-1.7	127	0.00	18.35
129 m	1,4-diethylbenzene			-----NA-----			
130	n-butylbenzene	1.613	1.935	-20.0	155	0.00	18.49
131 m	1,2,4,5-tetramethylbenzen			-----NA-----			
132	1,2-dibromo-3-chloropropa	0.138	0.169	-22.5#	168	0.00	19.37
133	1,3,5-trichlorobenzene	1.183	1.504	-27.1#	166	0.00	19.54
134	hexachlorobutadiene	0.573	0.801	-39.8#	185	0.00	20.25
135	naphthalene	1.674	2.051	-22.5#	156	-0.01	20.42
136	1,2,4-trichlorobenzene	0.926	1.202	-29.8#	167	0.00	20.15
137 m	1,2,3-trichlorobenzene	0.759	1.032	-36.0#	172	0.00	20.66
138	hexachloroethane	0.522	0.671	-28.5#	173	0.00	18.86

5.8.13

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Continuing Calibration Summary

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VX4579-CC4516

Lab FileID: X108347.D

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(#) = Out of Range
X106949.D MX4516.M

SPCC's out = 0 CCC's out = 0
Wed Oct 27 11:43:44 2010 MSX

5.8.13

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Continuing Calibration Summary

Page 1 of 4

Job Number: JA58900

Sample: VX4579-CC4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X108392.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\VX4581-4582\X108392.D Vial: 3
 Acq On : 27 Oct 2010 3:02 pm Operator: JUNTAEP
 Sample : CC4516-20 Inst : MSX
 Misc : MS3790,vx4579,5.0,,,,,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
 Last Update : Mon Oct 25 16:35:25 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.000 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	tert butyl alcohol-d9	1.000	1.000	0.0	114	-0.01	7.35
2	tertiary butyl alcohol	1.197	1.296	-8.3	138	-0.02	7.48
3	ethyl alcohol			NA			
4	acrolein	1.957	1.733	11.4	100	0.00	6.41
	----- True Calc. % Drift -----						
5	1,4-dioxane	500.000	549.315	-9.9	142	0.00	12.17
	----- AvgRF CCRF % Dev -----						
6 I	pentafluorobenzene	1.000	1.000	0.0	103	0.00	10.05
7 m	freon 23			NA			
8 m	freon 115			NA			
9 m	freon 143a			NA			
10 m	freon 152a			NA			
11 m	chlorotrifluoroethene			NA			
12	chlorodifluoromethane	0.467	0.608	-30.2#	145	0.00	3.81
13	dichlorodifluoromethane	0.689	0.891	-29.3#	136	0.00	3.79
14 m	freon 114			NA			
15 m	freon 142b			NA			
16	chloromethane	0.953	0.892	6.4	100	-0.01	4.11
17	vinyl chloride	0.737	0.700	5.0	97	-0.02	4.37
18 m	acetaldehyde			NA			
19	bromomethane	0.453	0.402	11.3	97	0.00	5.03
20	chloroethane	0.392	0.359	8.4	97	0.01	5.23
21	vinyl bromide	0.457	0.438	4.2	98	0.01	5.57
22	trichlorofluoromethane	0.765	1.000	-30.7#	136	0.00	5.66
23	ethyl ether	0.234	0.276	-17.9	131	-0.01	6.12
24 m	freon 141b			NA			
25 m	freon 123a			NA			
26 m	freon 123			NA			
27	1,1-dichloroethene	0.441	0.457	-3.6	124	0.00	6.58
	----- True Calc. % Drift -----						
28	acetone	20.000	29.265	-46.3#	166	0.00	6.65
	----- AvgRF CCRF % Dev -----						
29	allyl chloride	0.275	0.300	-9.1	121	-0.01	7.16
30	acetonitrile	0.038	0.041	-7.9	115	0.00	7.16
31	iodomethane	0.812	0.914	-12.6	129	0.00	6.88
	----- True Calc. % Drift -----						

Continuing Calibration Summary

Page 2 of 4

Job Number: JA58900

Sample: VX4579-CC4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X108392.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

32	iso-butyl alcohol	200.000	216.188	-8.1	142	-0.02	10.37
	----- AvgRF	CCRF	% Dev	-----			
33	carbon disulfide	1.742	1.794	-3.0	115	0.00	7.01
34	methylene chloride	0.514	0.525	-2.1	125	0.00	7.39
35	methyl acetate	0.060	0.068	-13.3	121	0.00	7.15
36	methyl tert butyl ether	1.292	1.515	-17.3	137	-0.01	7.75
37	trans-1,2-dichloroethene	0.491	0.495	-0.8	122	0.00	7.81
38	di-isopropyl ether	1.694	1.831	-8.1	119	0.00	8.45
	----- True	Calc.	% Drift	-----			
39	2-butanone	20.000	26.804	-34.0#	157	0.00	9.35
	----- AvgRF	CCRF	% Dev	-----			
40	1,1-dichloroethane	0.886	0.973	-9.8	126	0.00	8.48
41	chloroprene	0.622	0.725	-16.6	123	0.00	8.60
42	acrylonitrile	0.131	0.151	-15.3	129	-0.01	7.77
43	vinyl acetate	0.046	0.069	-50.0#	162	-0.02	8.46
44	ethyl tert-butyl ether	1.498	1.768	-18.0	128	0.00	9.02
45	ethyl acetate	0.042	0.058	-38.1#	145	-0.02	9.37
46	2,2-dichloropropane	0.755	0.839	-11.1	130	0.00	9.38
47	cis-1,2-dichloroethene	0.525	0.541	-3.0	123	-0.01	9.38
48	propionitrile	0.052	0.061	-17.3	132	-0.02	9.49
49	tert-Butyl Formate	0.372	0.408	-9.7	114	-0.01	9.89
50	bromochloromethane	0.220	0.253	-15.0	130	-0.02	9.77
51	tetrahydrofuran	0.147	0.174	-18.4	134	-0.01	9.82
52	chloroform	0.810	0.928	-14.6	132	-0.02	9.85
53 S	dibromofluoromethane (s)	0.427	0.439	-2.8	112	-0.02	10.10
54 S	1,2-dichloroethane-d4 (s)	0.471	0.514	-9.1	119	-0.01	10.63
55	freon 113	0.345	0.413	-19.7	135	0.00	6.55
56	methacrylonitrile	0.272	0.292	-7.4	127	0.00	9.71
57	1,1,1-trichloroethane	0.683	0.786	-15.1	136	0.00	10.15
58	cyclohexane	0.669	0.715	-6.9	122	-0.01	10.22
59 m	tert amyl alcohol			-----NA-----			
60 m	iso-octane	1.814	2.183	-20.3#	129	0.00	10.70
61 I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.00	11.22
62	di-isobutylene			-----NA-----			
63	epichlorohydrin	0.022	0.028	-27.3#	130	-0.02	12.74
64	n-butyl alcohol	0.008	0.010	-25.0#	132	0.00	11.42
65	carbon tetrachloride	0.390	0.502	-28.7#	138	-0.01	10.39
66	1,1-dichloropropene	0.423	0.479	-13.2	123	0.00	10.37
67	hexane	0.055	0.074	-34.5#	134	-0.01	8.13
68	benzene	1.225	1.332	-8.7	122	0.00	10.71
69	tert-amyl methyl ether	0.837	0.984	-17.6	124	0.00	10.76
70	heptane	0.242	0.313	-29.3#	129	-0.02	10.93
71	isopropyl acetate	0.701	0.912	-30.1#	132	0.00	10.65
72	1,2-dichloroethane	0.338	0.455	-34.6#	144	0.00	10.76
73	trichloroethene	0.312	0.365	-17.0	129	0.00	11.65
74 m	ethyl acrylate			-----NA-----			
75 m	tert amyl ethyl ether			-----NA-----			
	----- True	Calc.	% Drift	-----			
76	2-nitropropane	20.000	52.558	-162.8#	331	-0.01	12.73
	----- AvgRF	CCRF	% Dev	-----			
77	2-chloroethyl vinyl ether	0.111	0.142	-27.9#	130	-0.01	12.75
78	methyl methacrylate	0.167	0.210	-25.7#	132	-0.02	12.04
79	1,2-dichloropropane	0.330	0.396	-20.0	128	0.00	12.01
80	dibromomethane	0.164	0.219	-33.5#	142	0.00	12.22

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Continuing Calibration Summary

Page 3 of 4

Job Number: JA58900

Sample: VX4579-CC4516

Account: ENSRMAA AECOM, INC.

Lab FileID: X108392.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

81	methylcyclohexane	0.513	0.654	-27.5#	124	0.00	11.92
82	bromodichloromethane	0.409	0.510	-24.7#	136	-0.01	12.41
83	cis-1,3-dichloropropene	0.543	0.651	-19.9	130	0.00	13.03
84 S	toluene-d8 (s)	1.090	1.202	-10.3	111	0.00	13.40
85	4-methyl-2-pentanone	0.102	0.135	-32.4#	137	0.00	13.18
86	toluene	0.807	0.853	-5.7	123	-0.01	13.50
87	3-methyl-1-butanol	0.013	0.017	-30.8#	140	-0.01	13.22
88	trans-1,3-dichloropropene	0.471	0.577	-22.5#	136	-0.01	13.79
89	ethyl methacrylate	0.354	0.417	-17.8	129	0.00	13.80
90	1,1,2-trichloroethane	0.217	0.255	-17.5	127	-0.01	14.08
91	2-hexanone	0.096	0.134	-39.6#	146	0.00	14.33
92 I	chlorobenzene-d5	1.000	1.000	0.0	105	-0.01	15.43
93	3,3-Dimethyl-1-butanol	0.029	0.032	-10.3	136	0.00	14.58
94	tetrachloroethene	0.293	0.322	-9.9	130	0.00	14.28
95	1,3-dichloropropane	0.457	0.505	-10.5	132	-0.02	14.32
96	butyl acetate	0.204	0.231	-13.2	130	0.00	14.44
97	dibromochloromethane	0.331	0.384	-16.0	139	0.00	14.67
98	1,2-dibromoethane	0.275	0.317	-15.3	137	0.00	14.85
99 m	n-butyl ether			-----NA-----			
100	chlorobenzene	0.884	0.949	-7.4	130	0.00	15.47
101	1,1,1,2-tetrachloroethane	0.311	0.366	-17.7	138	0.00	15.56
102	ethylbenzene	1.563	1.654	-5.8	128	0.00	15.55
103	m,p-xylene	0.605	0.638	-5.5	129	0.00	15.69
104	o-xylene	0.632	0.668	-5.7	130	0.00	16.24
105	styrene	1.013	1.074	-6.0	128	0.00	16.26
106	bromoform	0.217	0.273	-25.8#	150	0.00	16.59
107 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	114	0.00	18.20
108	isopropylbenzene	3.443	3.472	-0.8	131	0.00	16.68
109 S	4-bromofluorobenzene (s)	0.982	1.041	-6.0	128	0.00	16.92
110	bromobenzene	0.827	0.887	-7.3	144	0.00	17.14
111	1,1,2,2-tetrachloroethane	0.764	0.840	-9.9	146	0.00	17.07
112	trans-1,4-dichloro-2-bute	0.215	0.268	-24.7#	153	0.00	17.12
113	1,2,3-trichloropropane	0.164	0.196	-19.5	149	0.00	17.15
114	n-propylbenzene	4.008	3.990	0.4	131	0.00	17.16
115 m	4-ethyltoluene			-----NA-----			
116	2-chlorotoluene	0.811	0.842	-3.8	137	0.00	17.32
117	4-chlorotoluene	2.546	2.642	-3.8	141	0.00	17.44
118	1,3,5-trimethylbenzene	2.773	2.887	-4.1	138	0.00	17.34
119	tert-butylbenzene	2.452	2.548	-3.9	137	0.00	17.72
120	pentachloroethane	0.457	0.566	-23.9#	160	0.00	17.81
121	1,2,4-trimethylbenzene	2.886	3.110	-7.8	145	0.00	17.77
122 m	1,2,3-trimethylbenzene			-----NA-----			
123	sec-butylbenzene	3.672	3.898	-6.2	139	0.00	17.95
124	1,3-dichlorobenzene	1.581	1.701	-7.6	146	0.00	18.14
125	p-isopropyltoluene	3.012	3.246	-7.8	143	0.00	18.08
126	1,4-dichlorobenzene	1.501	1.639	-9.2	150	0.00	18.23
127	1,2-dichlorobenzene	1.444	1.646	-14.0	152	0.00	18.62
128	benzyl chloride	1.500	1.811	-20.7#	152	0.00	18.35
129 m	1,4-diethylbenzene			-----NA-----			
130	n-butylbenzene	1.613	1.824	-13.1	147	0.00	18.49
131 m	1,2,4,5-tetramethylbenzen			-----NA-----			
132	1,2-dibromo-3-chloropropa	0.138	0.178	-29.0#	177	0.00	19.37
133	1,3,5-trichlorobenzene	1.183	1.446	-22.2#	161	0.00	19.54
134	hexachlorobutadiene	0.573	0.772	-34.7#	179	0.00	20.25
135	naphthalene	1.674	2.135	-27.5#	163	0.00	20.43
136	1,2,4-trichlorobenzene	0.926	1.206	-30.2#	168	0.00	20.15
137 m	1,2,3-trichlorobenzene	0.759	0.997	-31.4#	167	0.00	20.67
138	hexachloroethane	0.522	0.606	-16.1	157	0.00	18.86

5.8.14

5

Continuing Calibration Summary

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: VX4579-CC4516

Lab FileID: X108392.D

Page 4 of 4

(#) = Out of Range
X106949.D MX4516.M

SPCC's out = 0 CCC's out = 0
Mon Nov 01 14:50:29 2010 MSX

5.8.14

5



GC/MS Volatiles

Raw Data

9

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4374\H100603.D Vial: 6
Acq On : 27 Oct 2010 6:05 pm Operator: kristis
Sample : ja58900-1 Inst : MSH
Misc : ms3686,eh4375,5.00,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 27 18:11 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	7.83	56	2404708	23.59	ppm	-0.10
Spiked Amount	50.000			Recovery	=	47.18%

Target Compounds

Qvalue

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

H100603.D M4362EPG.M Wed Nov 03 17:35:41 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100603.D

Vial: 6

Acq On : 27 Oct 2010 6:05 pm

Operator: kristis

Sample : ja58900-1

Inst : MSH

Misc : ms3686,eh4375,5.00,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 27 18:11 2010

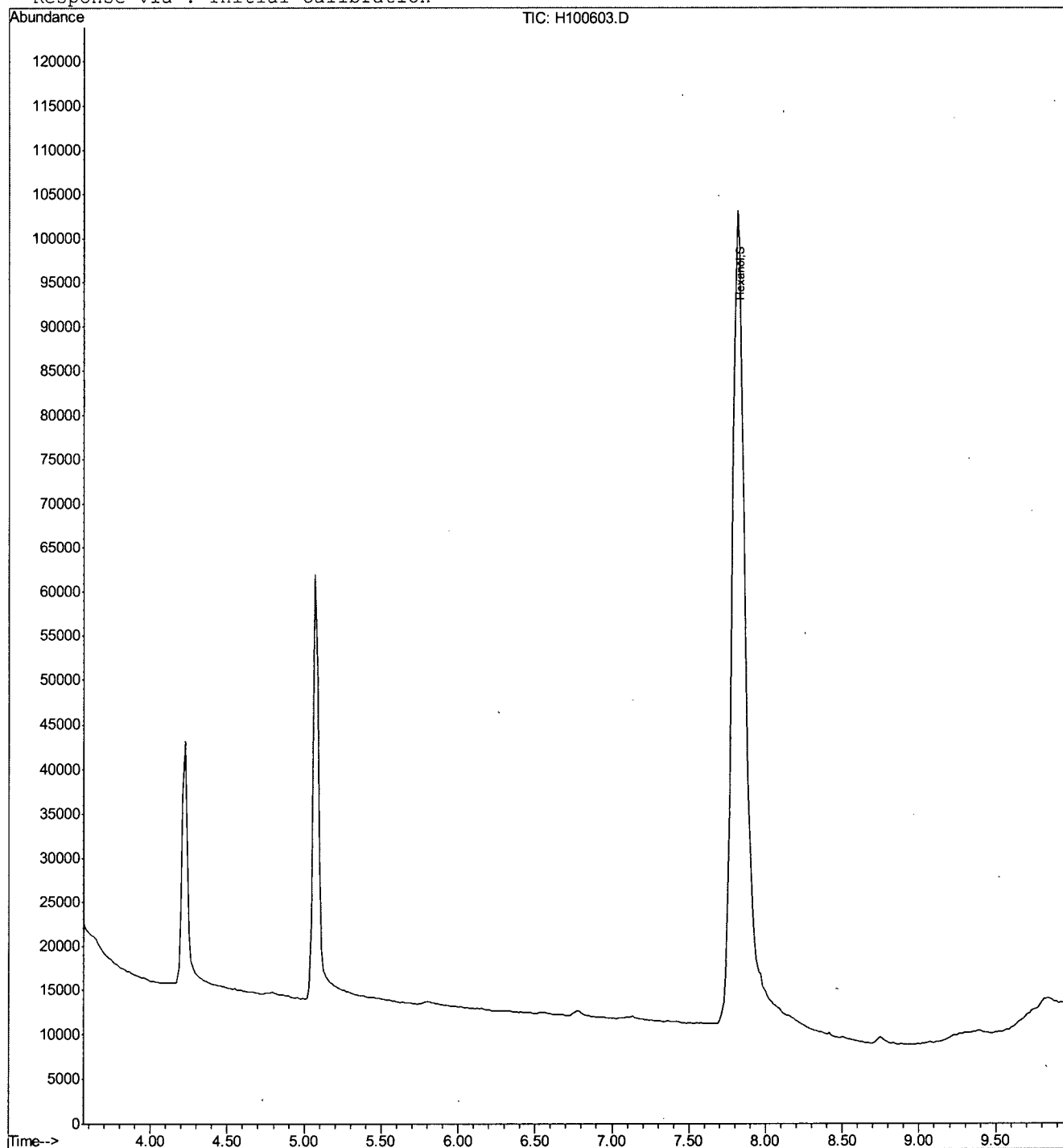
Quant Results File: M4362EPG.RES

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\EH4374\H100593.D Vial: 6
Acq On : 27 Oct 2010 3:13 pm Operator: kristis
Sample : ja58900-1 Inst : MSH
Misc : ms3576,eh4375,5.00,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 27 15:17 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	7.97	56	1469984	14.42	ppm	0.04
Spiked Amount	50.000			Recovery	=	28.84%

Target Compounds

Qvalue

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

H100593.D M4362EPG.M Wed Nov 03 17:35:23 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100593.D

Vial: 6

Acq On : 27 Oct 2010 3:13 pm

Operator: kristis

Sample : ja58900-1

Inst : MSH

Misc : ms3576,eh4375,5.00,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 27 15:17 2010

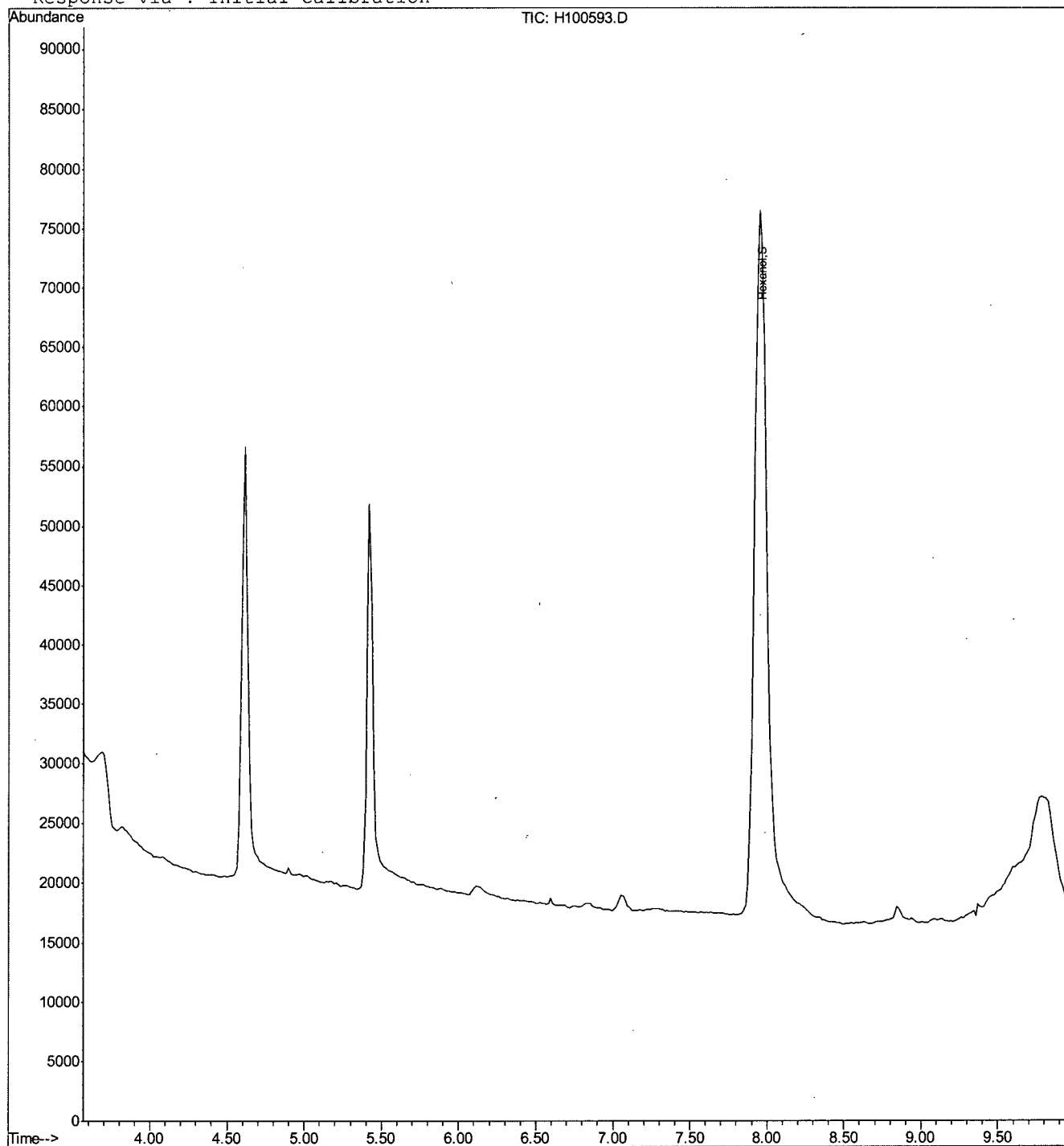
Quant Results File: M4362EPG.RES

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\EH4374\H100594.D Vial: 7
 Acq On : 27 Oct 2010 3:28 pm Operator: kristis
 Sample : ja58900-2 Inst : MSH
 Misc : ms3576,eh4375,5.04,,,1,1 Multiplr: 1.00
 MS Integration Params: LSCINT.E
 Quant Time: Nov 3 17:36 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	8.15	56	5645625	55.39	ppm	-0.05
Spiked Amount	50.000			Recovery	=	110.78%
Target Compounds						Qvalue

 (#) = qualifier out of range (m) = manual integration
 H100594.D M4362EPG.M Wed Nov 03 17:36:59 2010 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100594.D

Vial: 7

Acq On : 27 Oct 2010 3:28 pm

Operator: kristis

Sample : ja58900-2

Inst : MSH

Misc : ms3576,eh4375,5.04,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 17:36 2010

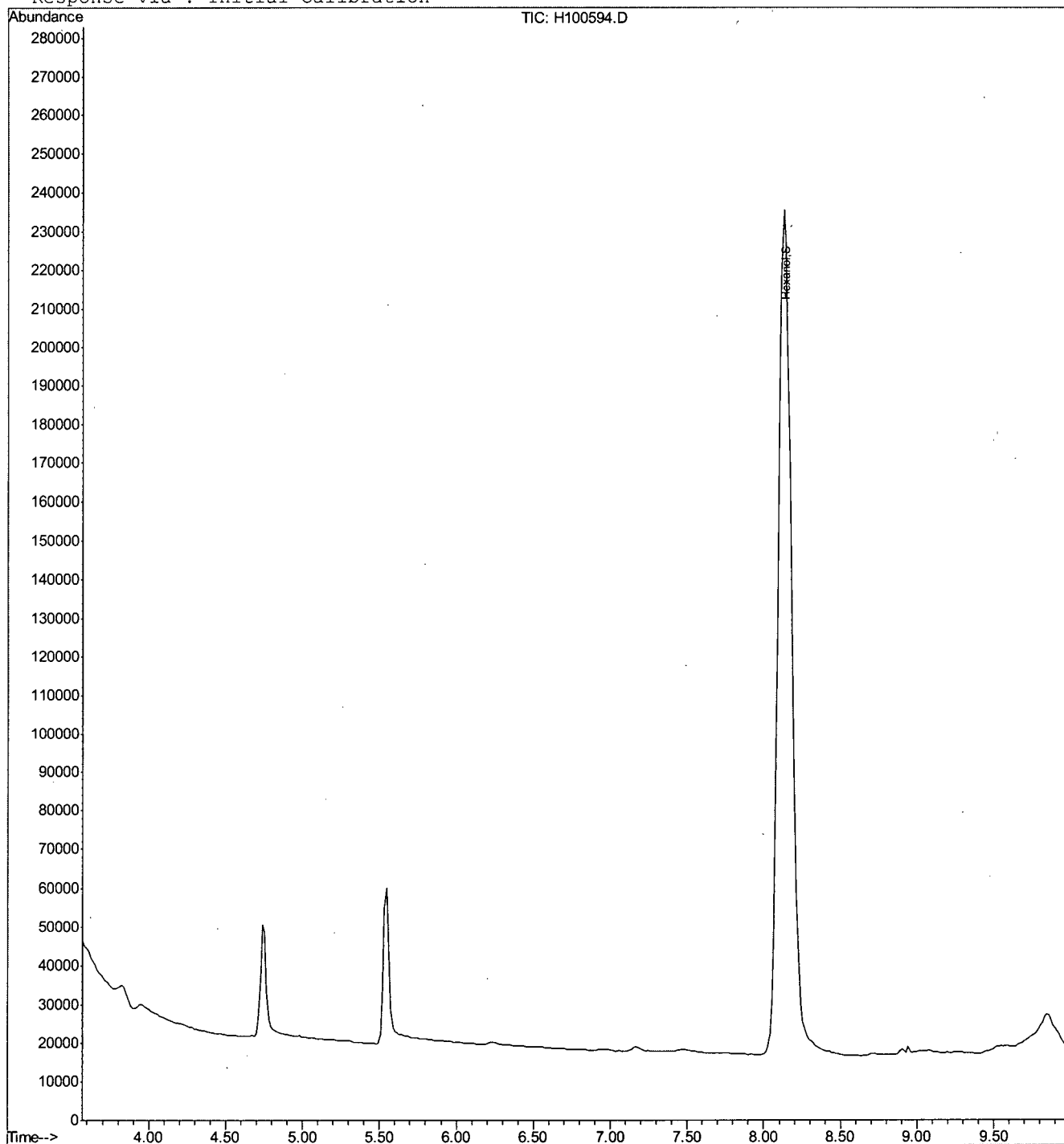
Quant Results File: M4362EPG.RES

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\EH4374\H100577.D Vial: 6
Acq On : 26 Oct 2010 8:00 pm Operator: kristis
Sample : ja58900-3 Inst : MSH
Misc : ms3576,eh4374,5.04,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Nov 3 17:33 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	7.95	56	6039652	59.26	ppm	0.02
Spiked Amount	50.000			Recovery	=	118.52%
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration
H100577.D M4362EPG.M Wed Nov 03 17:33:57 2010 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100577.D

Vial: 6

Acq On : 26 Oct 2010 8:00 pm

Operator: kristis

Sample : ja58900-3

Inst : MSH

Misc : ms3576,eh4374,5.04,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 3 17:33 2010

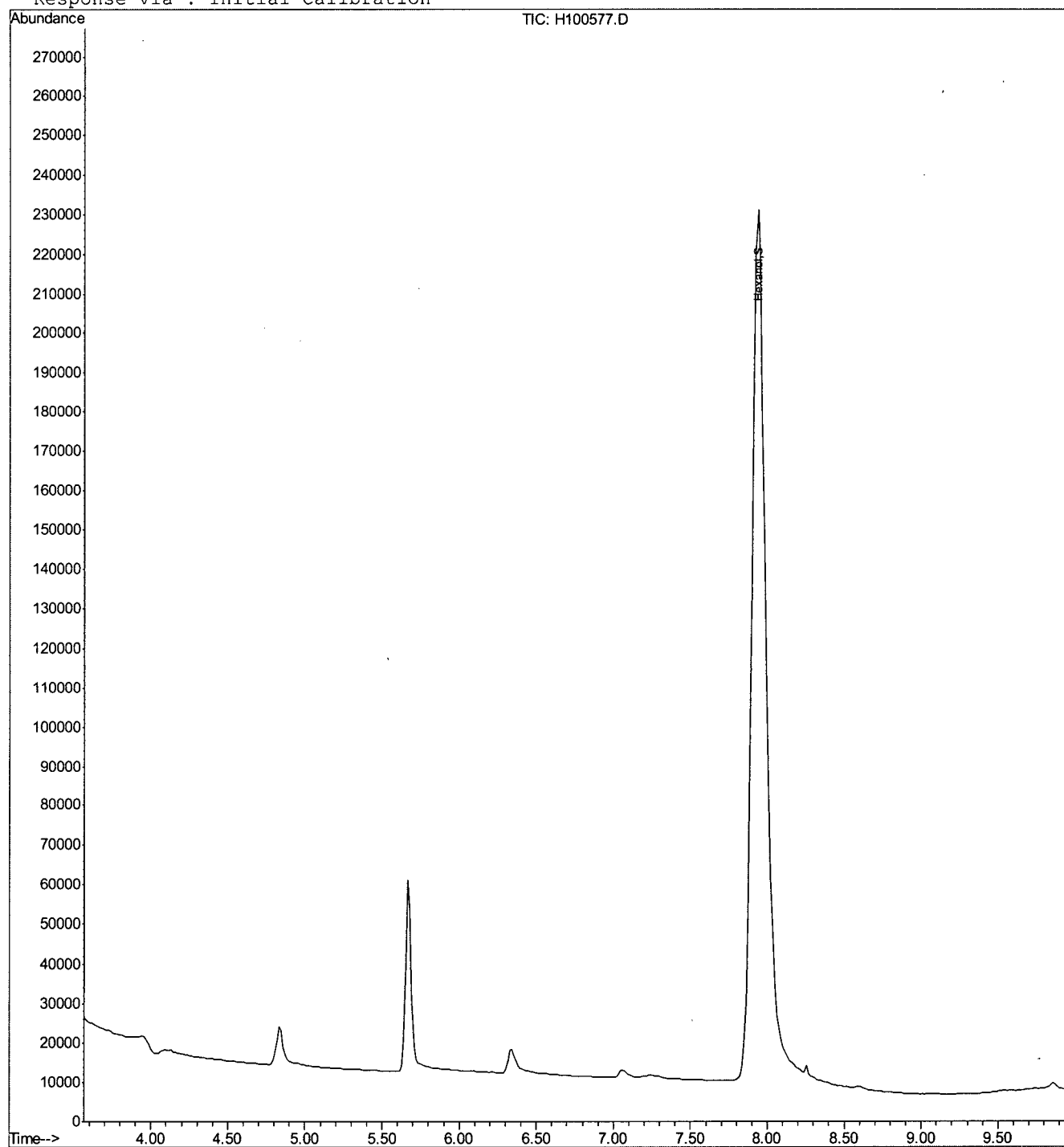
Quant Results File: M4362EPG.RES

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\EH4374\H100595.D Vial: 8
Acq On : 27 Oct 2010 3:45 pm Operator: kristis
Sample : ja58900-4 Inst : MSH
Misc : ms3576,eh4375,5.07,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 27 15:44 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	7.99	56	6001164	58.88	ppm	0.06
Spiked Amount	50.000			Recovery	=	117.76%

Target Compounds

Qvalue

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

H100595.D M4362EPG.M Wed Nov 03 17:38:11 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100595.D

Vial: 8

Acq On : 27 Oct 2010 3:45 pm

Operator: kristis

Sample : ja58900-4

Inst : MSH

Misc : ms3576,eh4375,5.07,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 27 15:44 2010

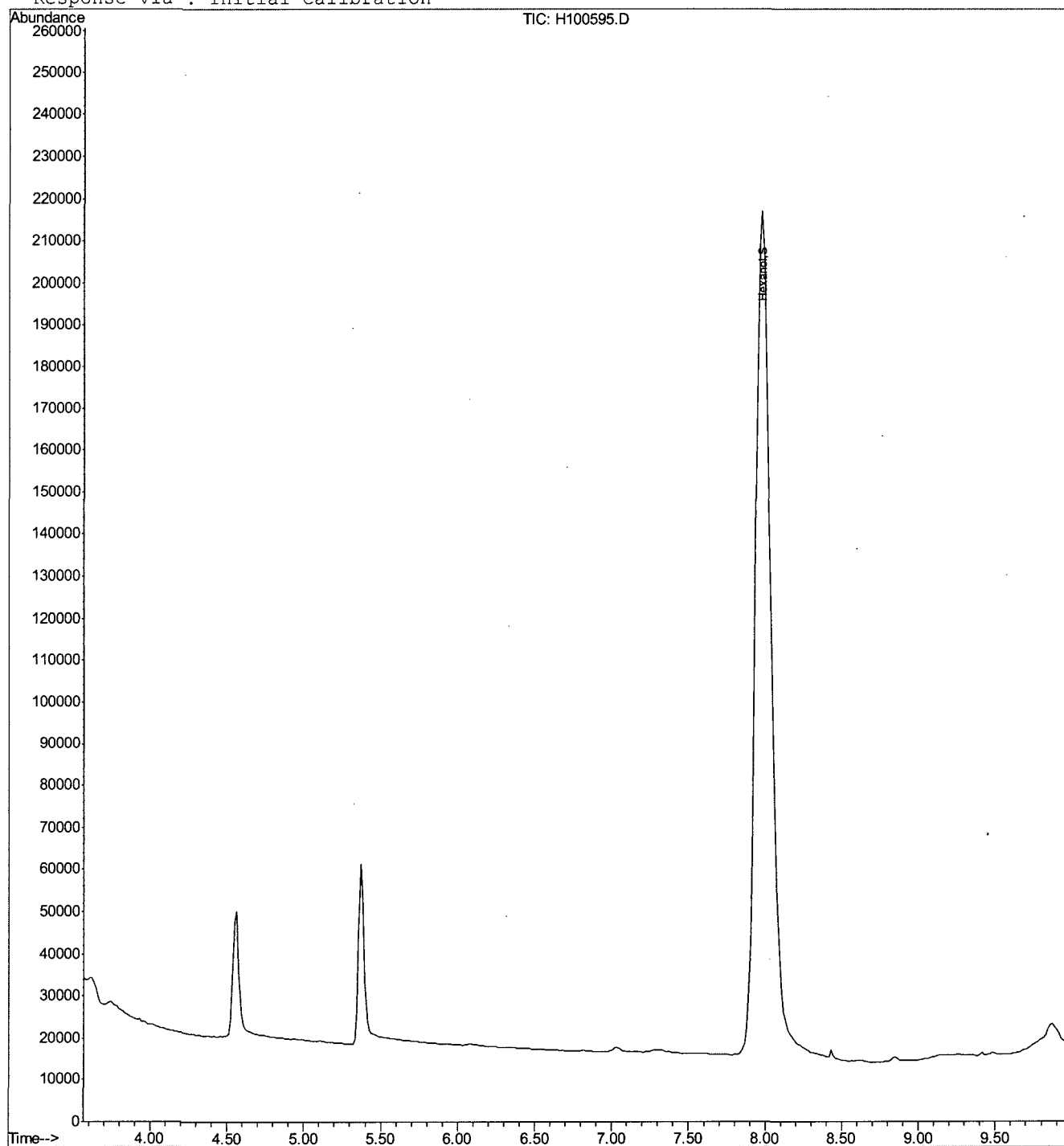
Quant Results File: M4362EPG.RES

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

Title : Ethylene Glycol Propylene Glycol

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

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4372\H100524.D Vial: 10
Acq On : 20 Oct 2010 7:02 pm Operator: kristis
Sample : ja58900-5 Inst : MSH
Misc : ms3575,eh4372,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 21 8:22 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 08:20:00 2010
Response via : Initial Calibration
DataAcq Meth : M4362EPG

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

System Monitoring Compounds

3) Hexanol	7.92	56	5044009	49.49	ppm	-0.08
Spiked Amount	50.000			Recovery	=	98.98%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
H100524.D M4362EPG.M Thu Oct 21 08:22:22 2010 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4372\H100524.D

Vial: 10

Acq On : 20 Oct 2010 7:02 pm

Operator: kristis

Sample : ja58900-5

Inst : MSH

Misc : ms3575,eh4372,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 21 8:22 2010

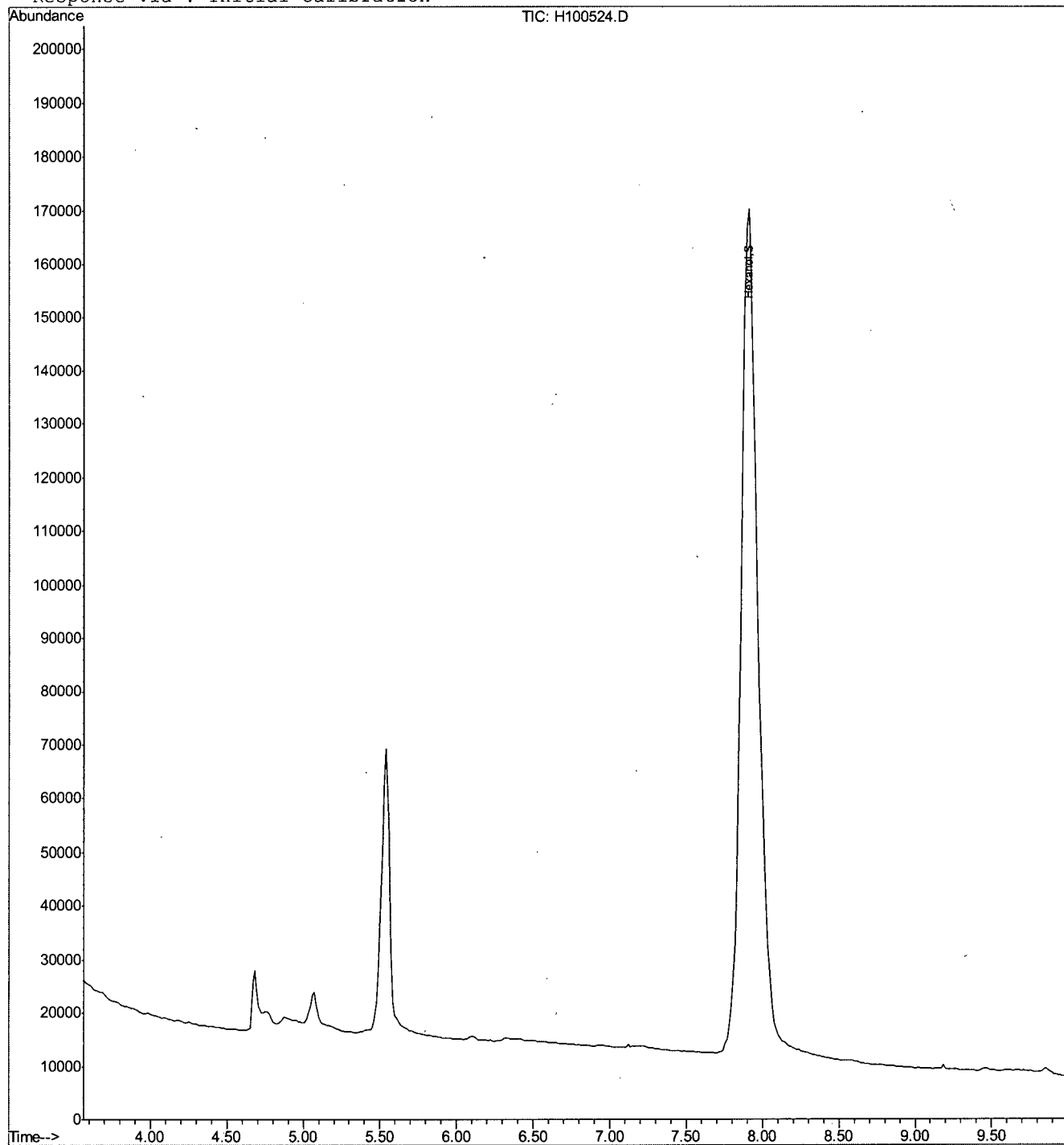
Quant Results File: M4362EPG.RES

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

Title : Ethylene Glycol Propylene Glycol

Last Update : Thu Oct 21 08:20:00 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4372\H100523.D Vial: 9
Acq On : 20 Oct 2010 6:47 pm Operator: kristis
Sample : ja58900-6 Inst : MSH
Misc : ms3575,eh4372,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 21 8:21 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 08:20:00 2010
Response via : Initial Calibration
DataAcq Meth : M4362EPG

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

System Monitoring Compounds						
3) Hexanol	8.00	56	4756707	46.67	ppm	0.00
Spiked Amount	50.000			Recovery	=	93.34%
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration
H100523.D M4362EPG.M Thu Oct 21 08:22:04 2010 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4372\H100523.D

Vial: 9

Acq On : 20 Oct 2010 6:47 pm

Operator: kristis

Sample : ja58900-6

Inst : MSH

Misc : ms3575,eh4372,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 21 8:21 2010

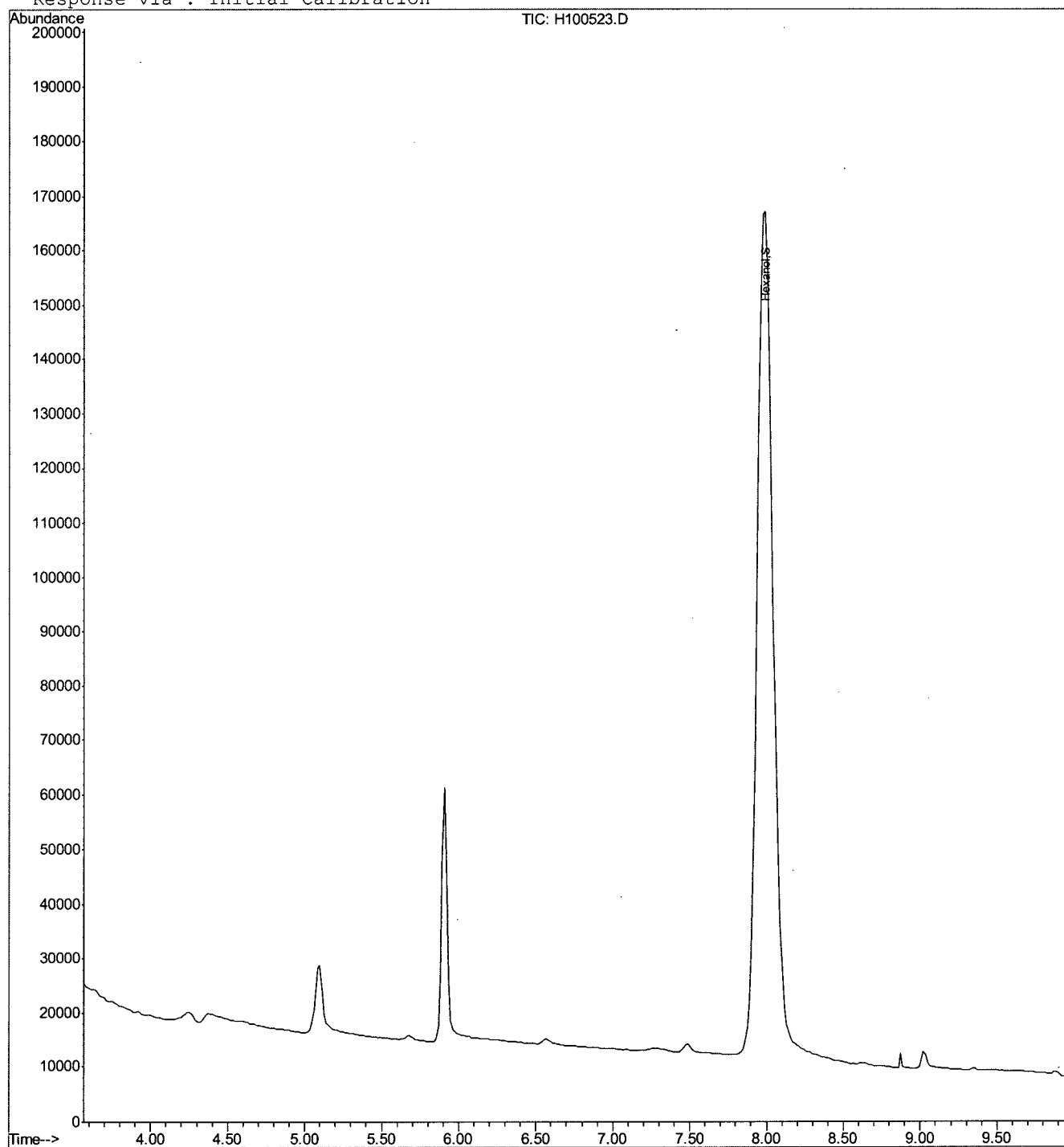
Quant Results File: M4362EPG.RES

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

Title : Ethylene Glycol Propylene Glycol

Last Update : Thu Oct 21 08:20:00 2010

Response via : Initial Calibration



H100523.D M4362EPG.M

Thu Oct 21 08:22:04 2010

MSH

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4374\H100604.D Vial: 9
Acq On : 27 Oct 2010 6:36 pm Operator: kristis
Sample : ja58900-7 Inst : MSH
Misc : ms3686,eh4375,5.00,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 27 18:35 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	7.76	56	3394714	33.31	ppm	-0.17
Spiked Amount	50.000			Recovery	=	66.62%

Target Compounds

Qvalue

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

H100604.D M4362EPG.M Wed Nov 03 17:42:35 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100604.D

Vial: 9

Acq On : 27 Oct 2010 6:36 pm

Operator: kristis

Sample : ja58900-7

Inst : MSH

Misc : ms3686,eh4375,5.00,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 27 18:35 2010

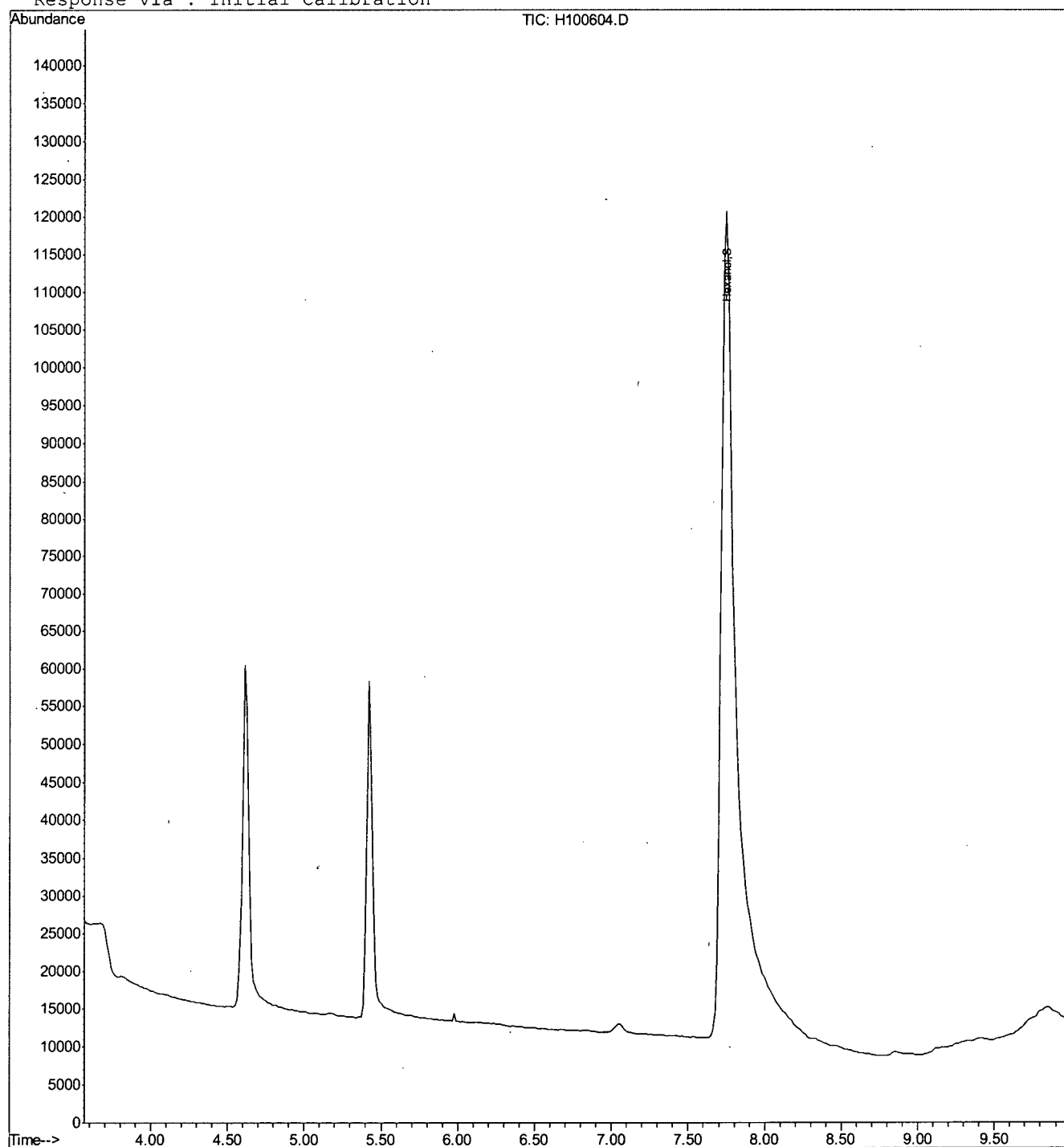
Quant Results File: M4362EPG.RES

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\EH4374\H100605.D Vial: 10
Acq On : 27 Oct 2010 6:43 pm Operator: kristis
Sample : ja58900-8 Inst : MSH
Misc : ms3686,eh4375,5.00,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 27 18:49 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	7.91	56	10490786	102.93	ppm	-0.02
Spiked Amount	50.000			Recovery	=	205.86%

Target Compounds

Qvalue

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

H100605.D M4362EPG.M Wed Nov 03 17:42:54 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100605.D

Vial: 10

Acq On : 27 Oct 2010 6:43 pm

Operator: kristis

Sample : ja58900-8

Inst : MSH

Misc : ms3686,eh4375,5.00,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 27 18:49 2010

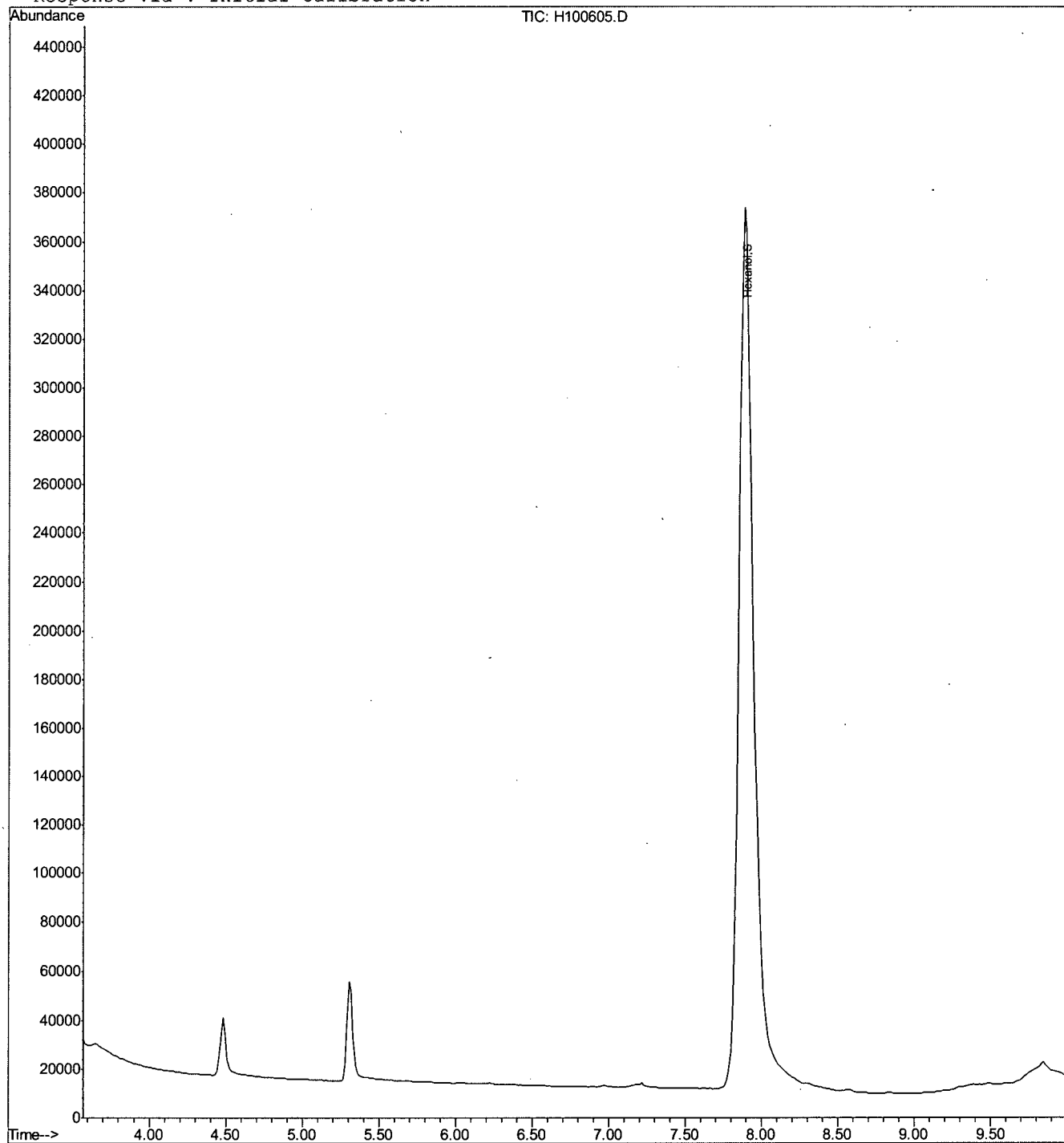
Quant Results File: M4362EPG.RES

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\EH4374\H100578.D Vial: 7
Acq On : 26 Oct 2010 8:03 pm Operator: kristis
Sample : ja58900-9 Inst : MSH
Misc : ms3576,eh4374,5.01,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 26 20:11 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	7.98	56	7878867	77.30	ppm	0.05
Spiked Amount	50.000			Recovery	=	154.60%

Target Compounds

Qvalue

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

H100578.D M4362EPG.M Wed Nov 03 17:34:13 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100578.D

Vial: 7

Acq On : 26 Oct 2010 8:03 pm

Operator: kristis

Sample : ja58900-9

Inst : MSH

Misc : ms3576,eh4374,5.01,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 26 20:11 2010

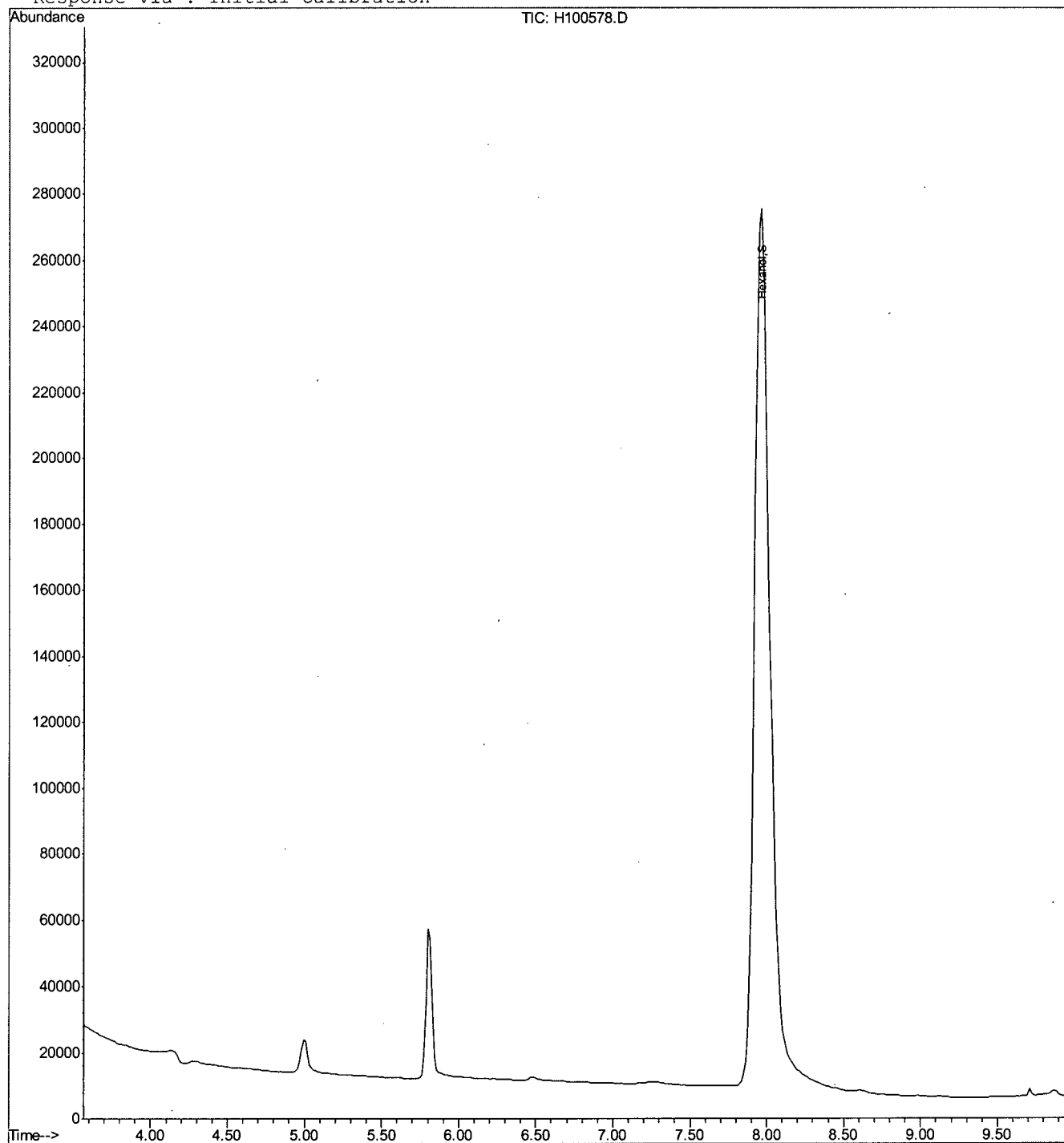
Quant Results File: M4362EPG.RES

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\EH4374\H100606.D Vial: 11
Acq On : 27 Oct 2010 6:58 pm Operator: kristis
Sample : ja58900-10 Inst : MSH
Misc : ms3576,eh4375,5.05,,,1,1 Multiplr: 1626.00
MS Integration Params: LSCINT.E
Quant Time: Oct 27 18:08 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	7.77	56	3978055	39.03	ppm	-0.16
Spiked Amount	50.000			Recovery	=	78.06%

Target Compounds

Qvalue

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

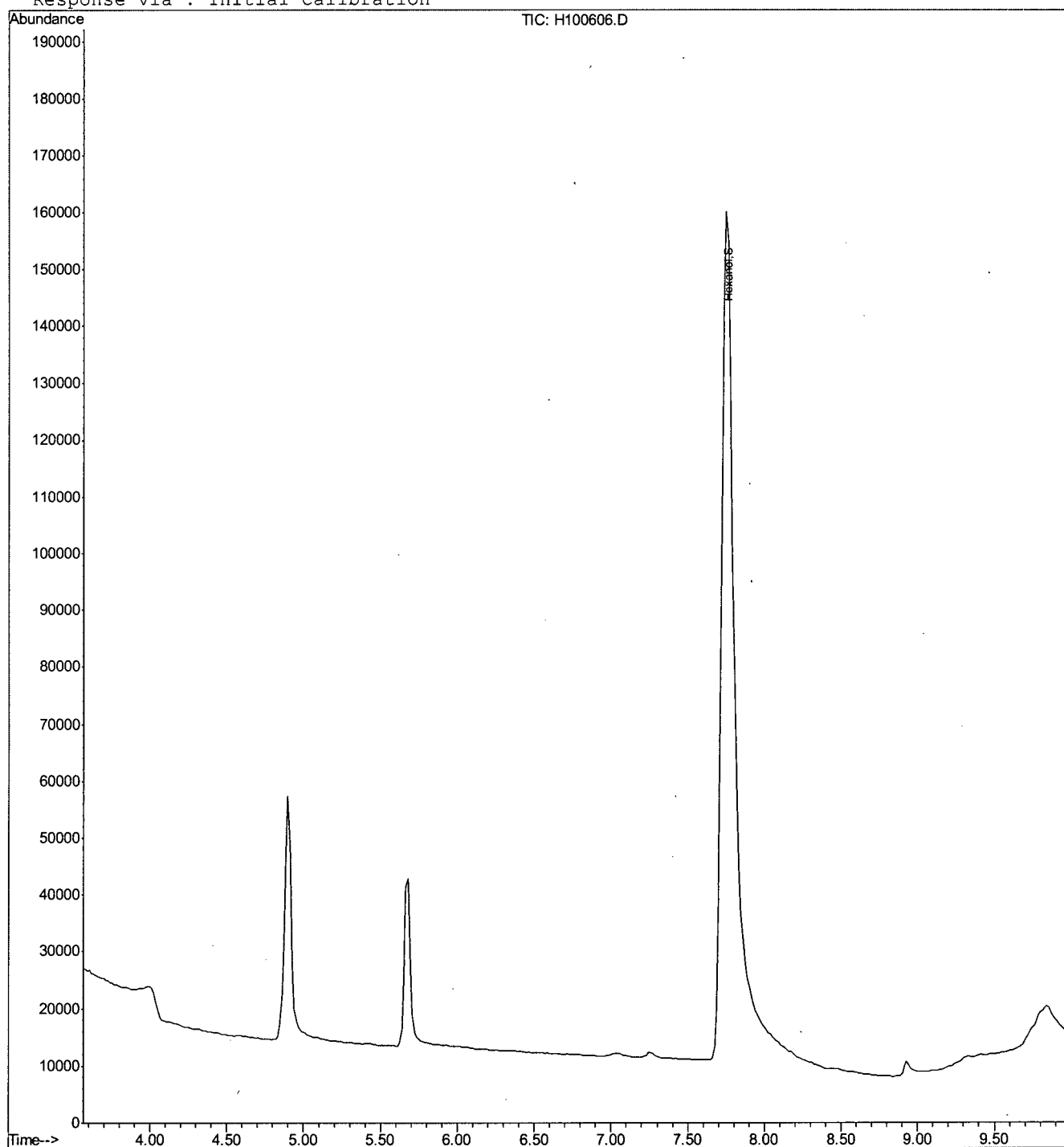
H100606.D M4362EPG.M Mon Nov 08 14:57:53 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100606.D Vial: 11
Acq On : 27 Oct 2010 6:58 pm Operator: kristis
Sample : ja58900-10 Inst : MSH
Misc : ms3576,eh4375,5.05,,,1,1 Multiplr: 1626.00
MS Integration Params: LSCINT.E
Quant Time: Oct 27 18:08 2010 Quant Results File: M4362EPG.RES

Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)
Title : Ethylene Glycol Propylene Glycol
Last Update : Mon Nov 08 10:10:20 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4374\H100607.D Vial: 12
Acq On : 27 Oct 2010 7:15 pm Operator: kristis
Sample : ja58900-11 Inst : MSH
Misc : ms3576,eh4375,5.00,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 27 19:22 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	7.78	56	3788989	37.17	ppm	-0.15
Spiked Amount	50.000			Recovery	=	74.34%

Target Compounds

Qvalue

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

H100607.D M4362EPG.M Wed Nov 03 17:43:30 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100607.D

Vial: 12

Acq On : 27 Oct 2010 7:15 pm

Operator: kristis

Sample : ja58900-11

Inst : MSH

Misc : ms3576,eh4375,5.00,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 27 19:22 2010

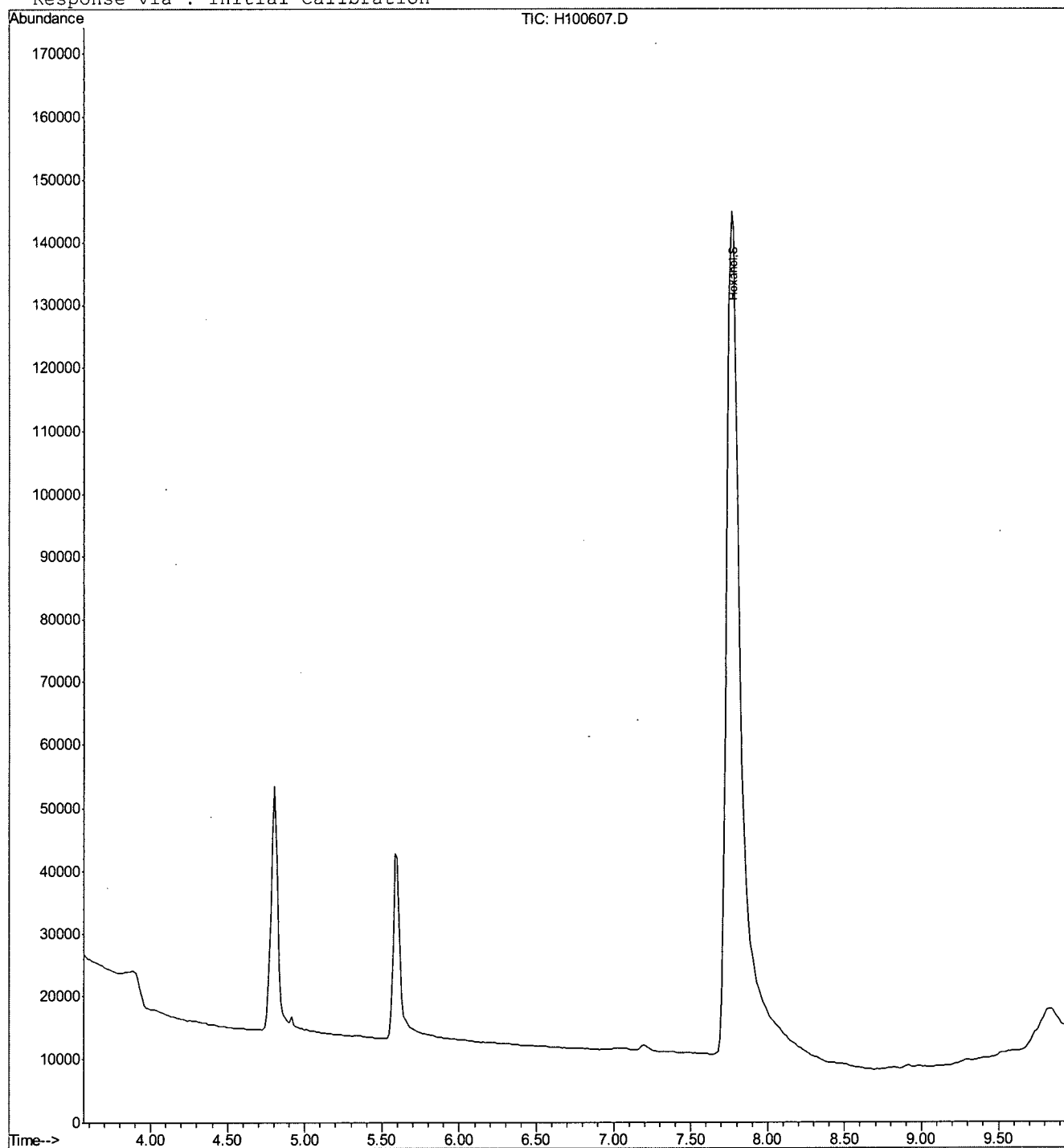
Quant Results File: M4362EPG.RES

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\EH4374\H100600.D Vial: 13
 Acq On : 27 Oct 2010 4:54 pm Operator: kristis
 Sample : ja58900-12 Inst : MSH
 Misc : ms3576,eh4375,5.01,,,1,1 Multiplr: 1.00
 MS Integration Params: LSCINT.E
 Quant Time: Oct 27 16:53 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)

System Monitoring Compounds						
3) Hexanol	7.87	56	3889051	38.16	ppm	-0.06
Spiked Amount	50.000			Recovery	=	76.32%
Target Compounds						Qvalue

 (#) = qualifier out of range (m) = manual integration
 H100600.D M4362EPG.M Wed Nov 03 17:41:36 2010 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100600.D

Vial: 13

Acq On : 27 Oct 2010 4:54 pm

Operator: kristis

Sample : ja58900-12

Inst : MSH

Misc : ms3576,eh4375,5.01,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 27 16:53 2010

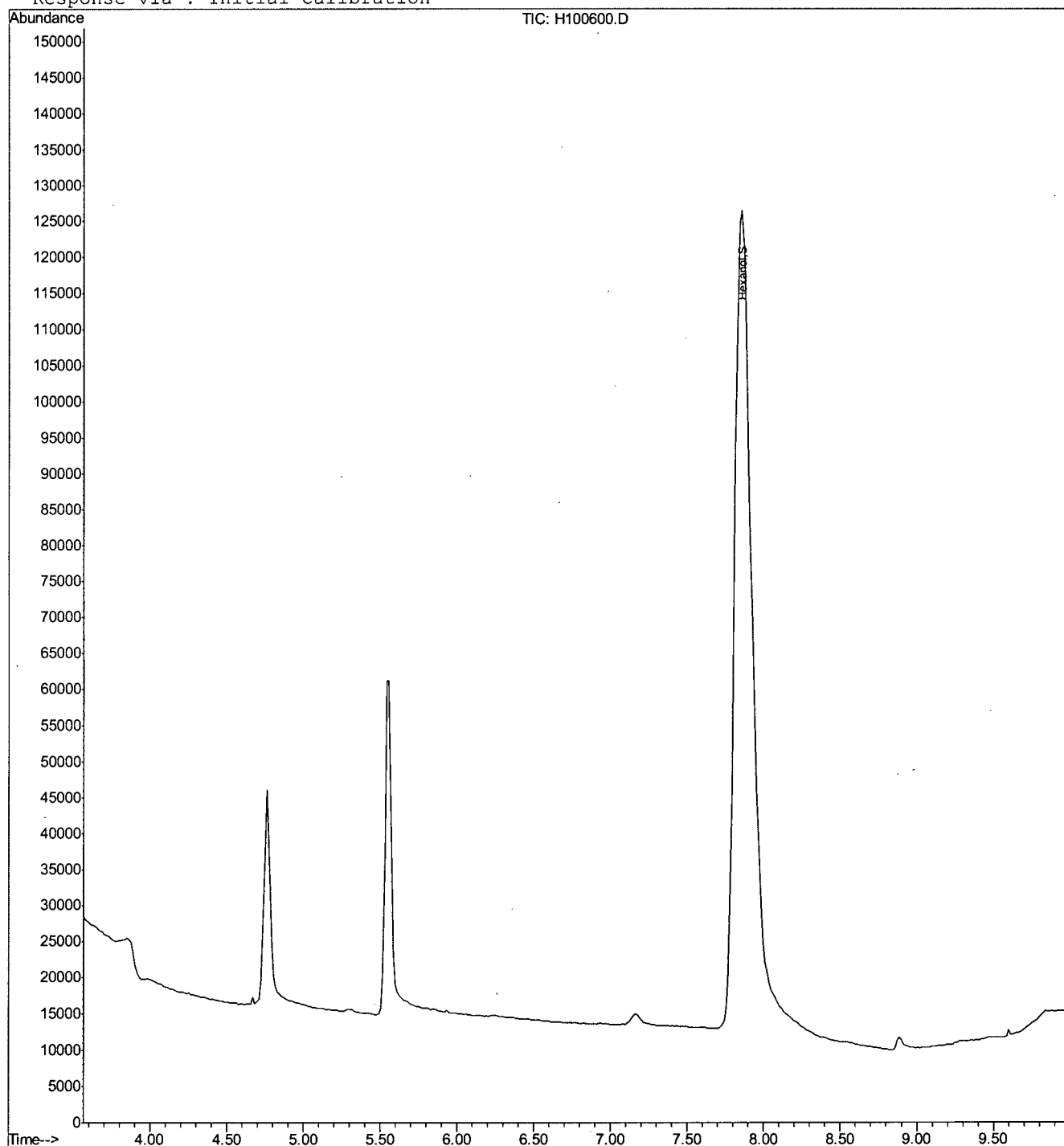
Quant Results File: M4362EPG.RES

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

Title : Ethylene Glycol Propylene Glycol

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

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4374\H100601.D Vial: 14
Acq On : 27 Oct 2010 5:10 pm Operator: kristis
Sample : ja58900-14 Inst : MSH
Misc : ms3576,eh4375,5.09,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 27 17:07 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	7.86	56	2727936	26.76	ppm	-0.07
Spiked Amount	50.000			Recovery	=	53.52%

Target Compounds

Qvalue

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

H100601.D M4362EPG.M Wed Nov 03 17:41:59 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100601.D

Vial: 14

Acq On : 27 Oct 2010 5:10 pm

Operator: kristis

Sample : ja58900-14

Inst : MSH

Misc : ms3576,eh4375,5.09,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 27 17:07 2010

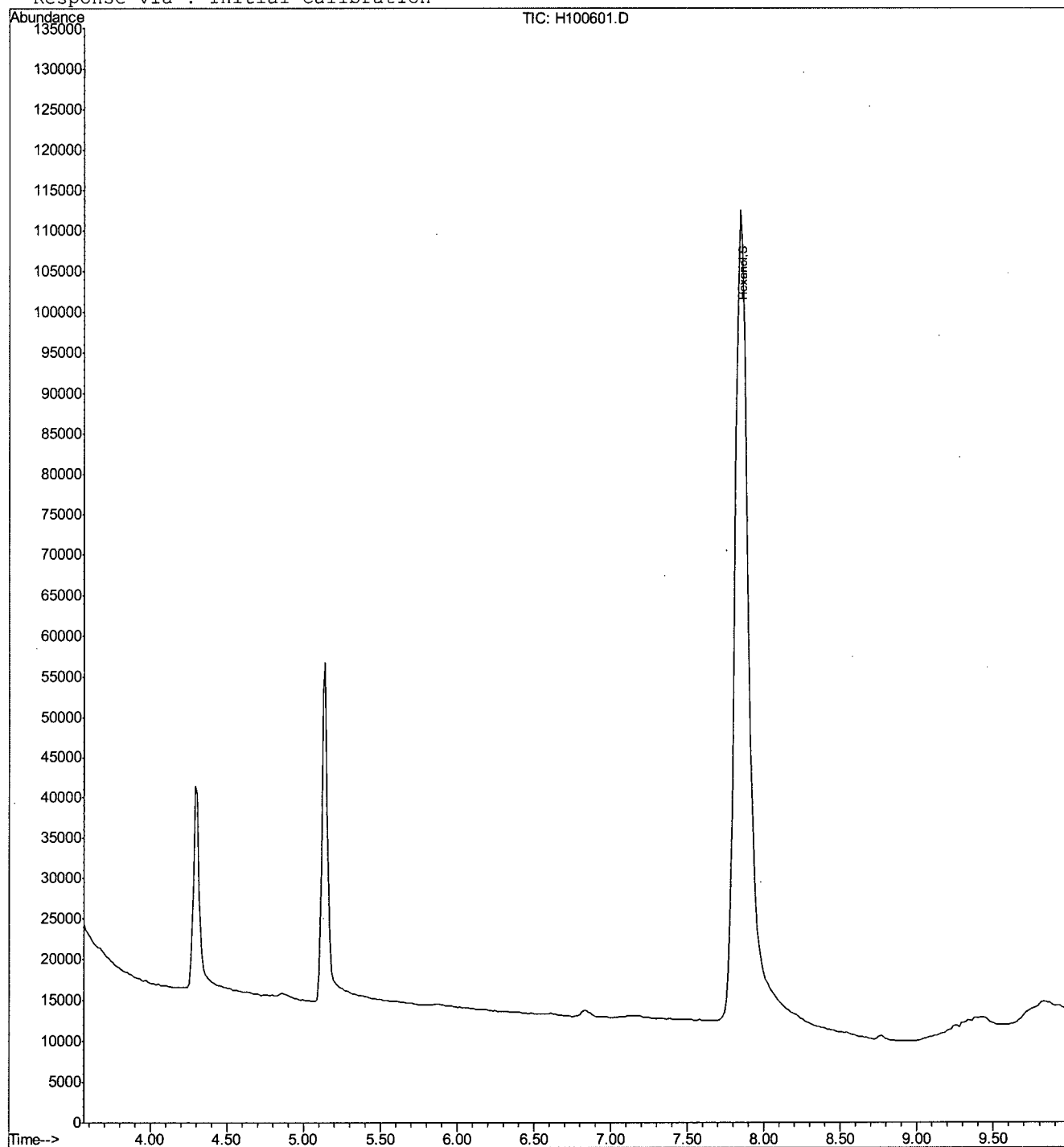
Quant Results File: M4362EPG.RES

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\VX4579-4580\X108365.D Vial: 21
Acq On : 26 Oct 2010 10:24 pm Operator: JUNTAEP
Sample : ja58900-1 Inst : MSX
Misc : MS3577,vx4579,9.2,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 26 22:47:35 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	43962	500.00	ug/L	-0.01
6) pentafluorobenzene	10.05	168	165006	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	213048	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	186621	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	63217	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.11	113	64839	45.98	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	91.96%
54) 1,2-dichloroethane-d4 (s)	10.63	65	71622	46.09	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	92.18%
84) toluene-d8 (s)	13.40	98	251030	54.05	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	108.10%
109) 4-bromofluorobenzene (s)	16.92	95	83717	67.45	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	134.90%

Target Compounds

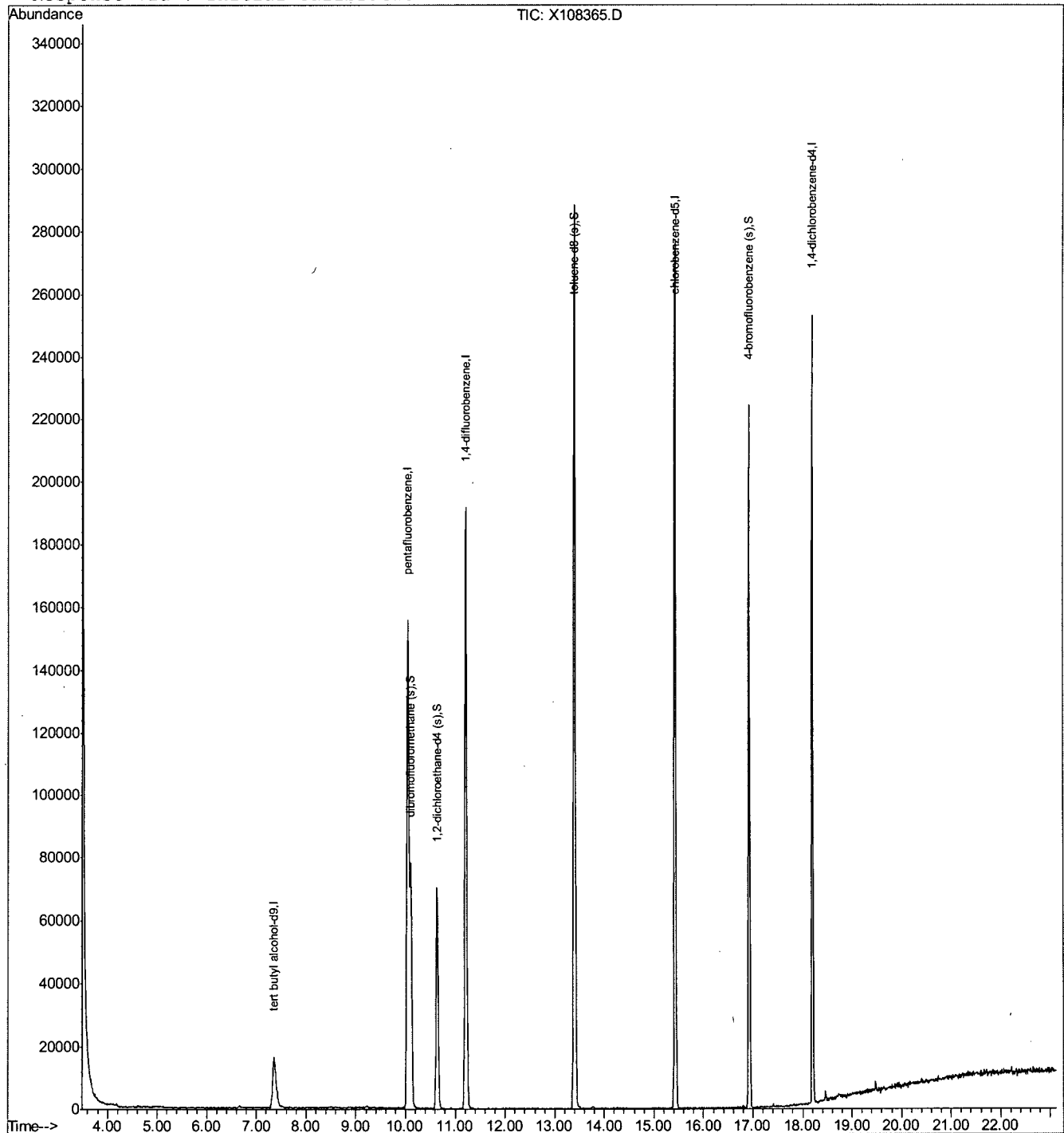
Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
X108365.D MX4516.M Wed Oct 27 12:25:36 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108365.D Vial: 21
Acq On : 26 Oct 2010 10:24 pm Operator: JUNTAEP
Sample : ja58900-1 Inst : MSX
Misc : MS3577,vx4579,9.2,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 12:20 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\VX4579-4580\X108366.D Vial: 22
Acq On : 26 Oct 2010 10:53 pm Operator: JUNTAEP
Sample : ja58900-2 Inst : MSX
Misc : MS3577,vx4579,10.3,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 26 23:16:31 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	51567	500.00	ug/L	0.00
6) pentafluorobenzene	10.05	168	171124	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	229678	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	226927	50.00	ug/L	0.00
107) 1,4-dichlorobenzene-d4	18.20	152	106466	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.11	113	71051	48.58	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 127	Recovery	=	97.16%
54) 1,2-dichloroethane-d4 (s)	10.64	65	84959	52.72	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	105.44%
84) toluene-d8 (s)	13.40	98	272098	54.34	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	108.68%
109) 4-bromofluorobenzene (s)	16.92	95	119119	56.98	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	113.96%

Target Compounds

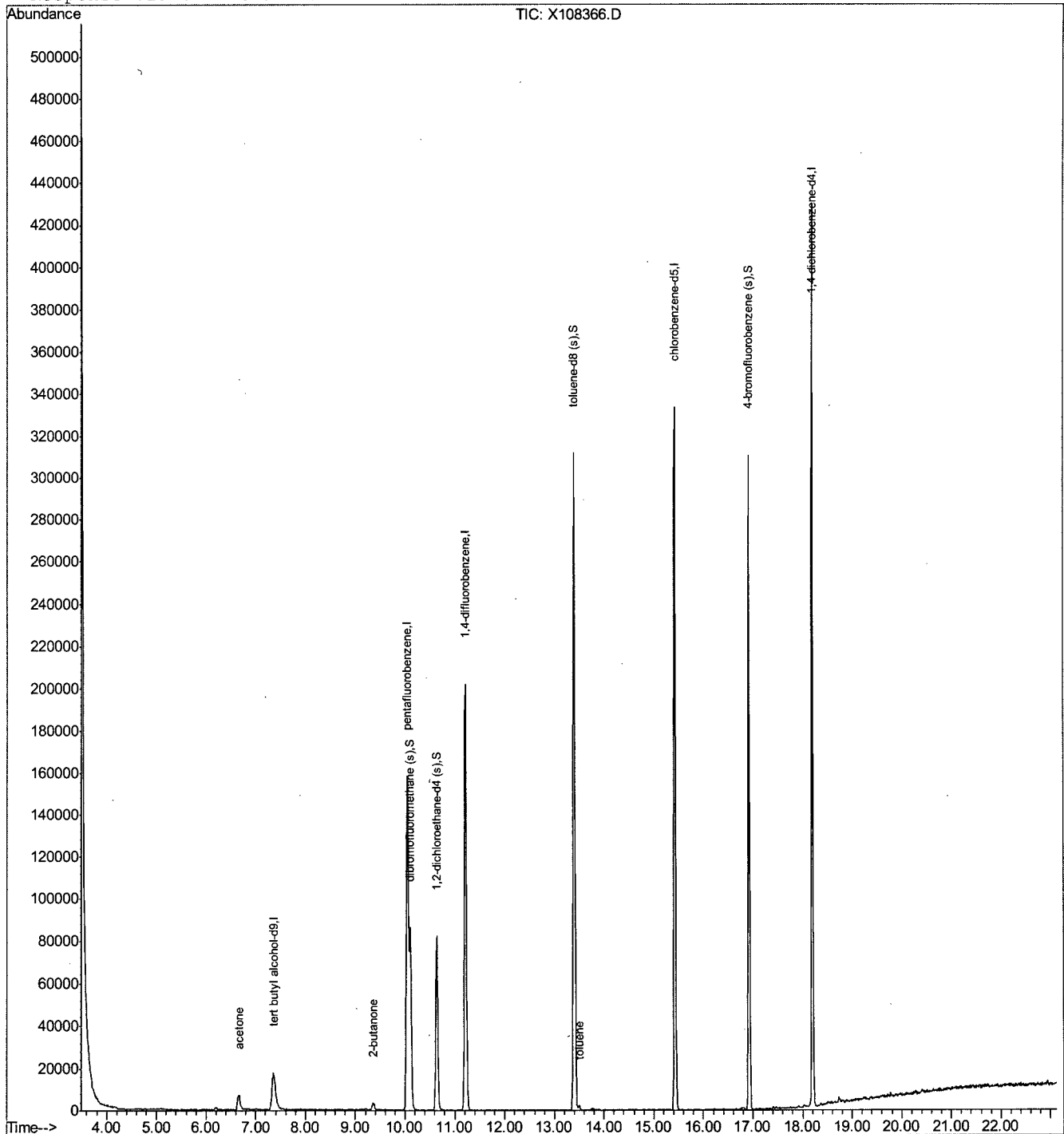
						Qvalue
28) acetone	6.67	58	4885	40.60	ug/L #	76
39) 2-butanone	9.35	72	1448	8.77	ug/L #	1
86) toluene	13.50	92	1110	0.30	ug/L	83

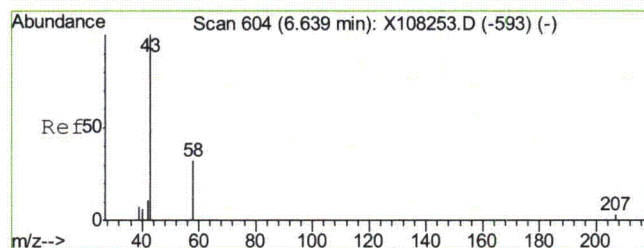
(#) = qualifier out of range (m) = manual integration (+) = signals summed
X108366.D MX4516.M Wed Oct 27 12:25:38 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X4579-4580\X108366.D Vial: 22
Acq On : 26 Oct 2010 10:53 pm Operator: JUNTAEP
Sample : ja58900-2 Inst : MSX
Misc : MS3577,vx4579,10.3,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 12:22 2010 Quant Results File: MX4516.RES

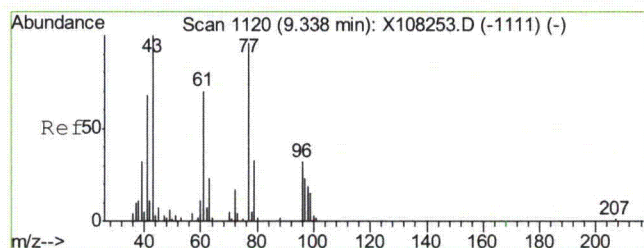
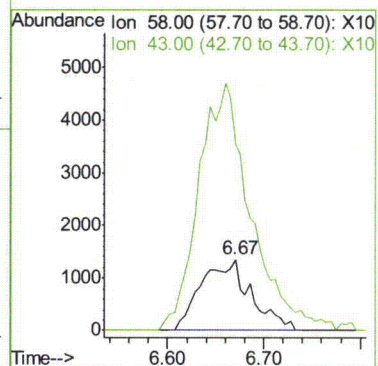
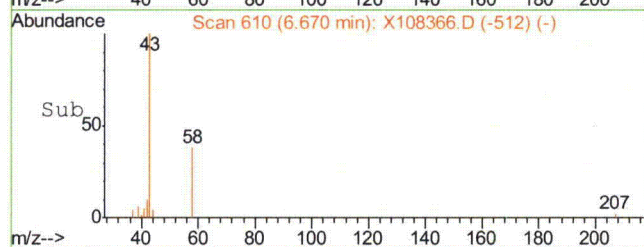
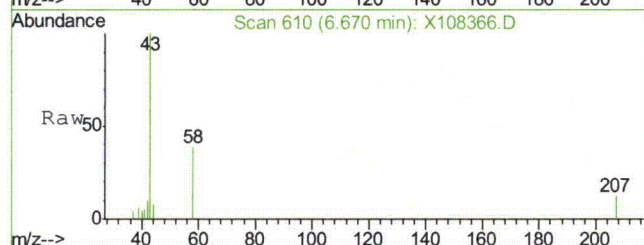
Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Mon Oct 25 16:35:25 2010
Response via : Initial Calibration





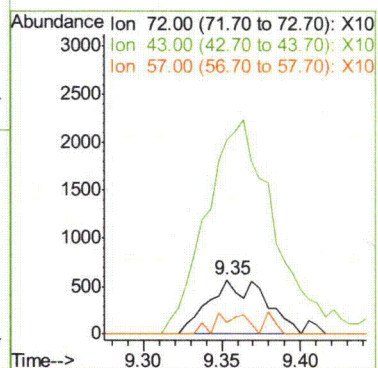
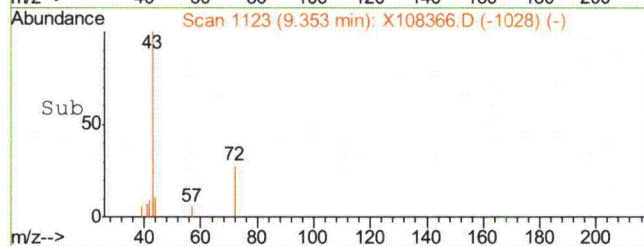
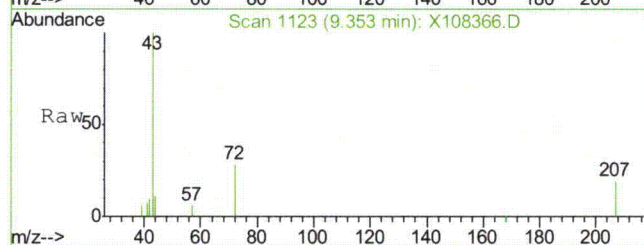
#28
acetone
Concen: 40.60 ug/L
RT: 6.67 min Scan# 610
Delta R.T. 0.01 min
Lab File: X108366.D
Acq: 26 Oct 2010 10:53 pm

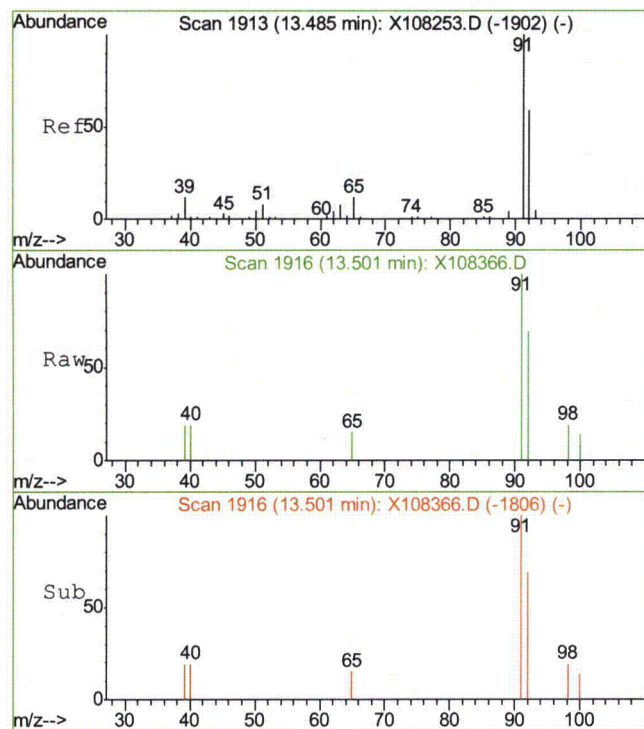
Tgt Ion: 58 Resp: 4885
Ion Ratio Lower Upper
58 100
43 261.5 279.8 339.8#



#39
2-butanone
Concen: 8.77 ug/L
RT: 9.35 min Scan# 1123
Delta R.T. -0.00 min
Lab File: X108366.D
Acq: 26 Oct 2010 10:53 pm

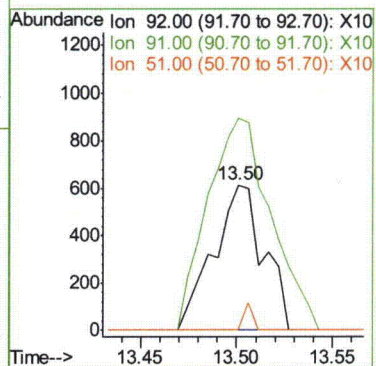
Tgt Ion: 72 Resp: 1448
Ion Ratio Lower Upper
72 100
43 328.5 515.9 958.1#
57 22.1 19.7 36.7





#86
toluene
Concen: 0.30 ug/L
RT: 13.50 min Scan# 1916
Delta R.T. -0.01 min
Lab File: X108366.D
Acq: 26 Oct 2010 10:53 pm

Tgt Ion: 92 Resp: 1110
Ion Ratio Lower Upper
92 100
91 145.6 137.9 197.9
51 0.0 0.0 41.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108352.D Vial: 8
 Acq On : 26 Oct 2010 3:39 pm Operator: JUNTAEP
 Sample : ja58900-3 Inst : MSX
 Misc : MS3577,vx4579,10.8,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 16:06:43 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	63733	500.00	ug/L	-0.02
6) pentafluorobenzene	10.05	168	146489	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.21	114	193790	50.00	ug/L	-0.01
92) chlorobenzene-d5	15.43	117	161042	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	47991	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.11	113	61711	49.29	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 127	Recovery	=	98.58%
54) 1,2-dichloroethane-d4 (s)	10.63	65	70080	50.80	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	101.60%
84) toluene-d8 (s)	13.40	98	223110	52.81	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	105.62%
109) 4-bromofluorobenzene (s)	16.92	95	69239	73.48	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	146.96%#

Target Compounds

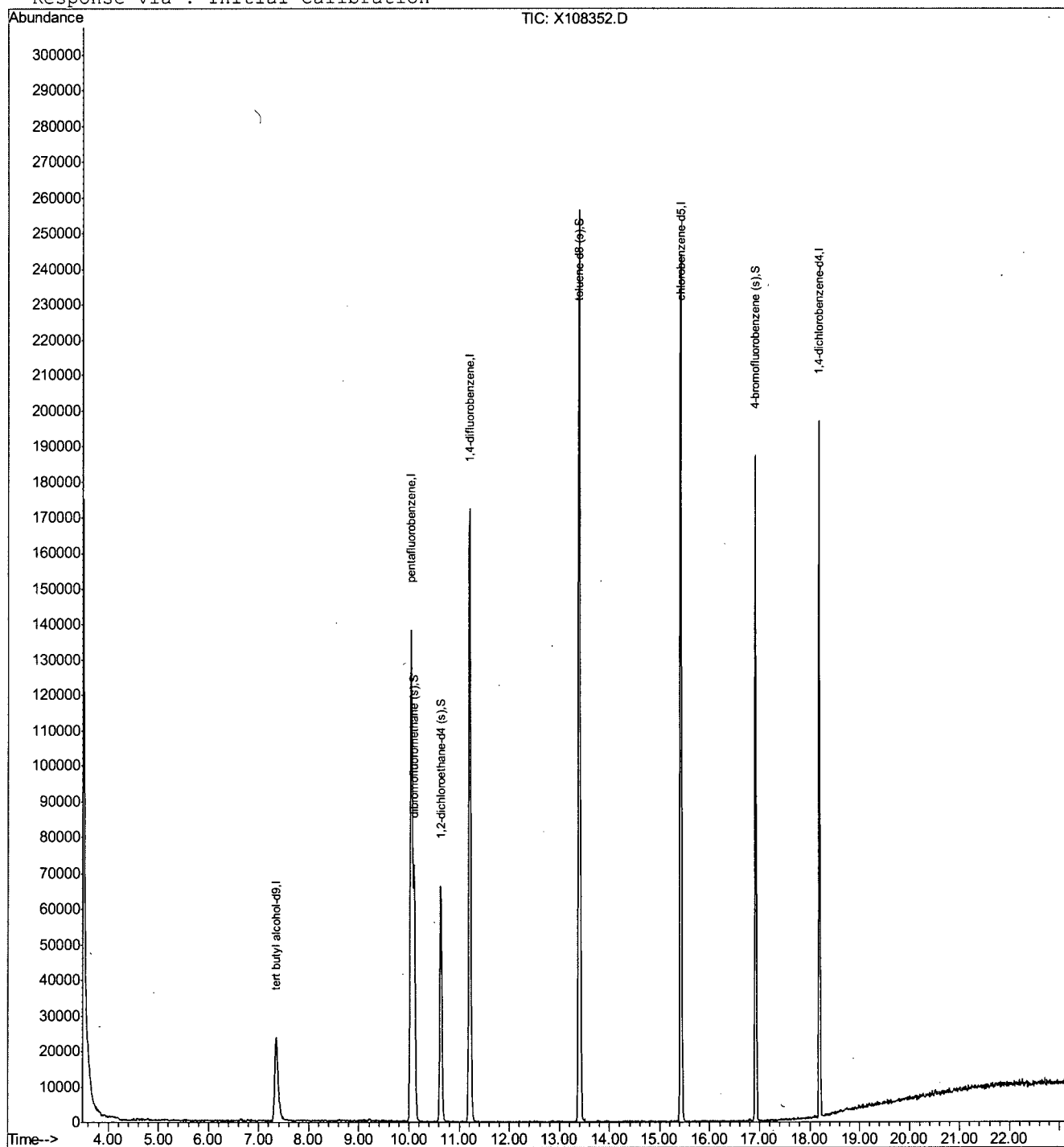
Qvalue

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108352.D MX4516.M Wed Oct 27 12:25:09 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108352.D Vial: 8
Acq On : 26 Oct 2010 3:39 pm Operator: JUNTAEP
Sample : ja58900-3 Inst : MSX
Misc : MS3577,vx4579,10.8,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 11:57 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\VX4579-4580\X108358.D Vial: 14
 Acq On : 26 Oct 2010 6:59 pm Operator: JUNTAEP
 Sample : ja58900-3CFIS Inst : MSX
 Misc : MS3577,vx4579,9.9,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 19:22:50 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	61922	500.00	ug/L	0.00
6) pentafluorobenzene	10.05	168	79537	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	97671	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	41905	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	6015	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.11	113	48278	71.02	ug/L	-0.01
Spiked Amount	50.000	Range 67 - 127	Recovery	=	142.04%#	
54) 1,2-dichloroethane-d4 (s)	10.64	65	41044	54.80	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	=	109.60%	
84) toluene-d8 (s)	13.40	98	90574	42.54	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	85.08%	
109) 4-bromofluorobenzene (s)	16.92	95	10884	92.16	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	184.32%#	

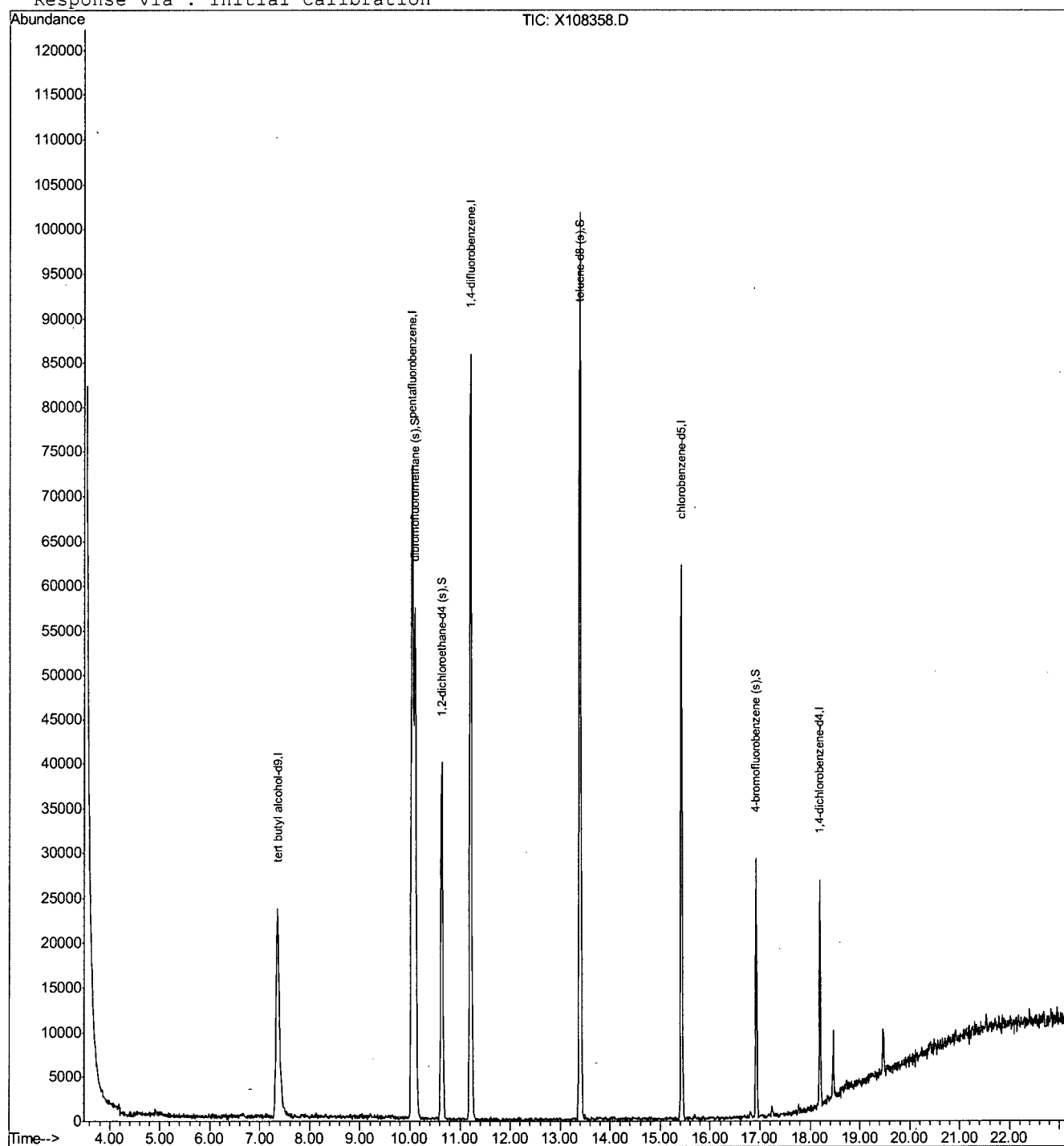
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108358.D MX4516.M Wed Oct 27 12:25:16 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108358.D Vial: 14
Acq On : 26 Oct 2010 6:59 pm Operator: JUNTAEP
Sample : ja58900-3CFIS Inst : MSX
Misc : MS3577,vx4579,9.9,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 12:01 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\WX4579-4580\X108367.D Vial: 23
 Acq On : 26 Oct 2010 11:22 pm Operator: JUNTAEP
 Sample : ja58900-4 Inst : MSX
 Misc : MS3577,vx4579,9.3,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 23:45:30 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	7.36	65	68143	500.00	ug/L	0.00
6) pentafluorobenzene	10.05	168	175983	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	231702	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	225367	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	106996	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.11	113	69567	46.25	ug/L	0.00
Spiked Amount	50.000	Range 67 - 127	Recovery	=	92.50%	
54) 1,2-dichloroethane-d4 (s)	10.63	65	79033	47.69	ug/L	-0.01
Spiked Amount	50.000	Range 65 - 132	Recovery	=	95.38%	
84) toluene-d8 (s)	13.40	98	273539	54.15	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	108.30%	
109) 4-bromofluorobenzene (s)	16.92	95	117271	55.82	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	111.64%	

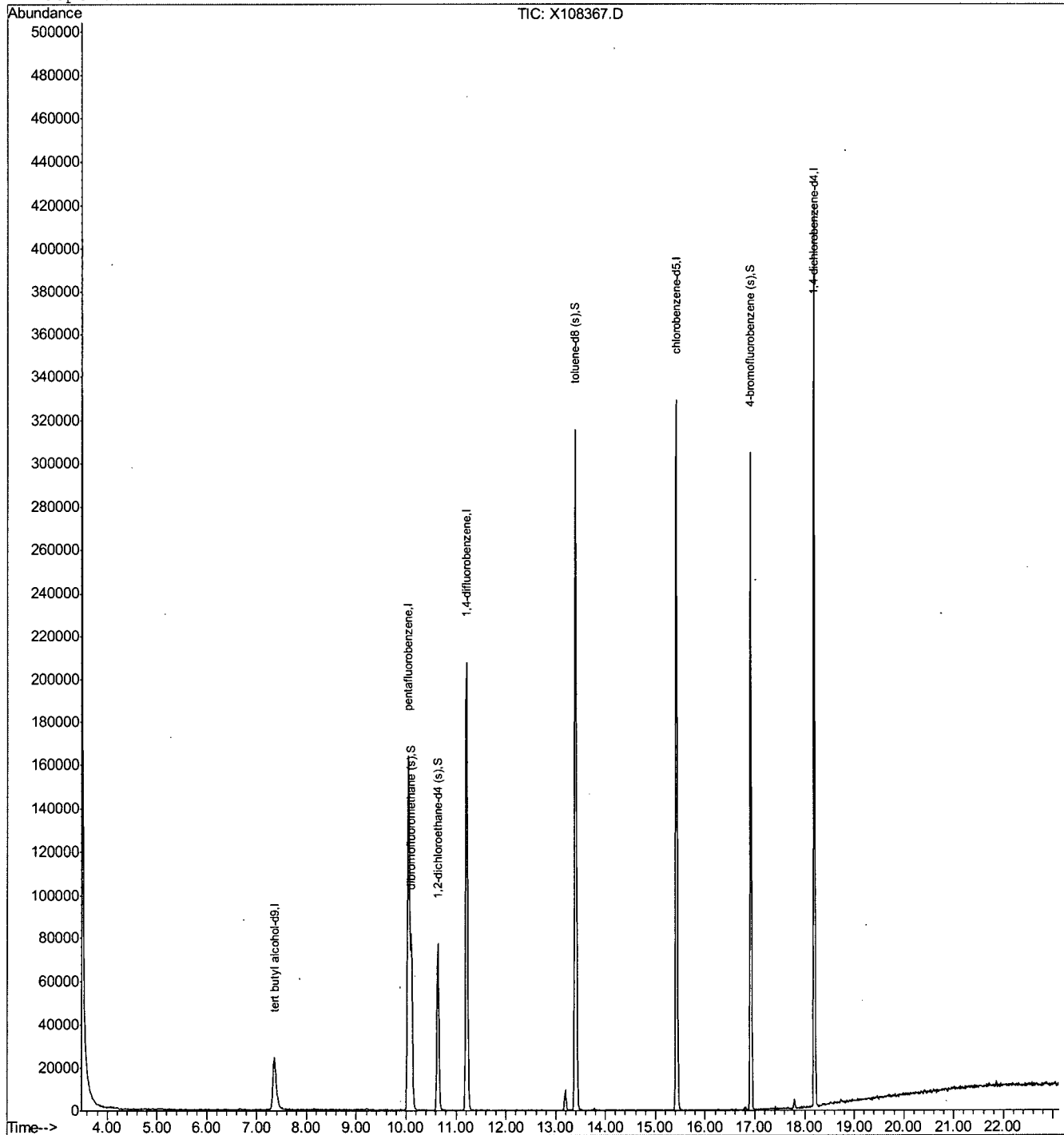
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108367.D MX4516.M Wed Oct 27 12:25:41 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108367.D Vial: 23
Acq On : 26 Oct 2010 11:22 pm Operator: JUNTAEP
Sample : ja58900-4 Inst : MSX
Misc : MS3577,vx4579,9.3,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 12:22 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\
 Data File : V108527.D
 Acq On : 21 Oct 2010 8:11 pm
 Operator : JIANHUAL
 Sample : JA58900-5 EB
 Misc : MS3738,VV4578,5.0,,,,,1
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 22 08:34:50 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Thu Oct 21 17:19:02 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.47	65	89018	500.00	ug/L	0.02
4) pentafluorobenzene	9.67	168	263662	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.62	114	421554	50.00	ug/L	0.00
93) chlorobenzene-d5	14.03	117	421822	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.66	152	208907	50.00	ug/L	0.01

System Monitoring Compounds

57) dibromofluoromethane (s)	9.73	113	151204	49.96	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	99.92%
58) 1,2-dichloroethane-d4 (s)	10.16	65	141481	46.33	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	92.66%
85) toluene-d8 (s)	12.35	98	564675	52.07	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	104.14%
109) 4-bromofluorobenzene (s)	15.35	95	209378	43.82	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	87.64%

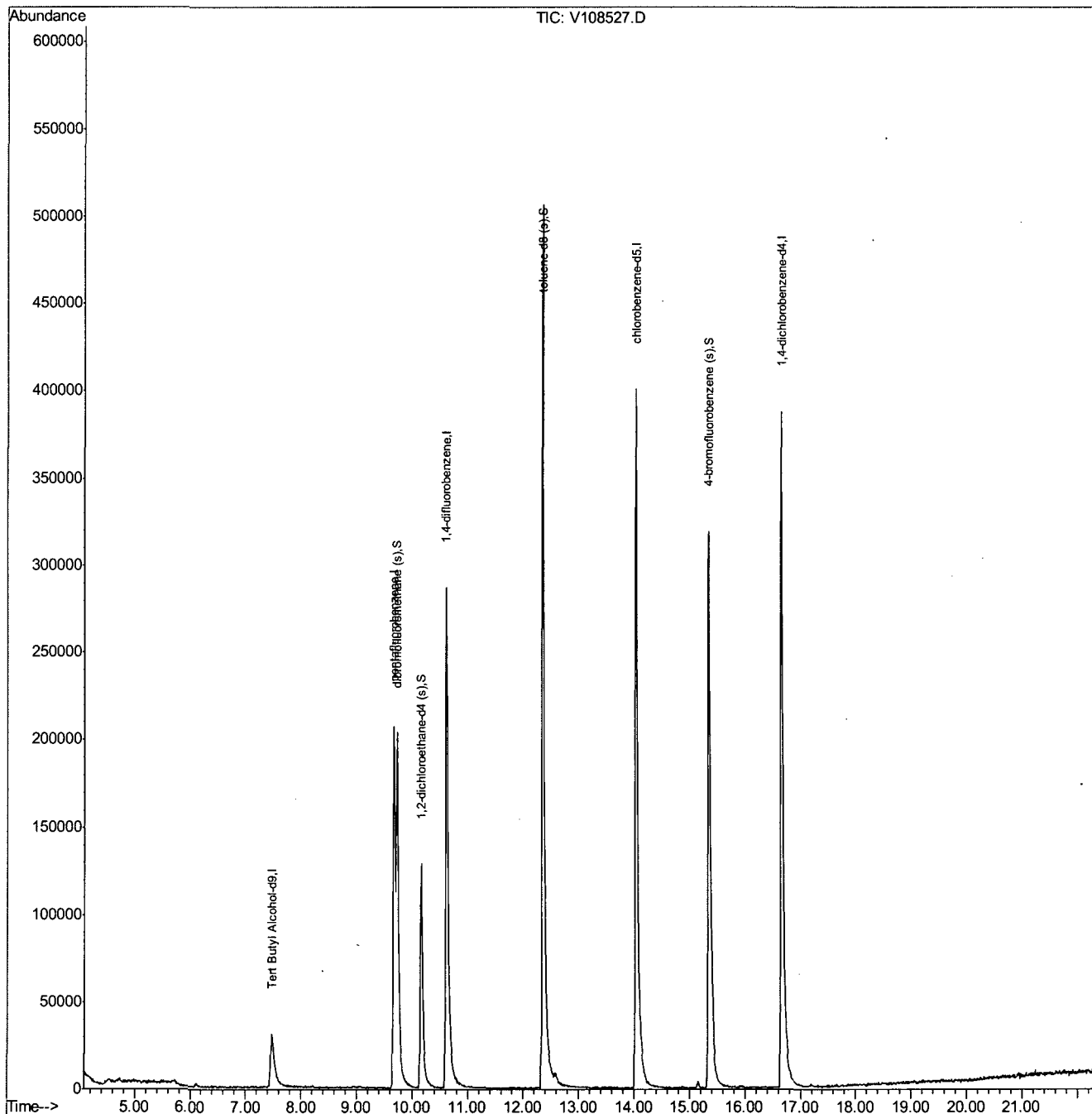
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : V108527.D
Acq On : 21 Oct 2010 8:11 pm
Operator : JIANHUAL
Sample : JA58900-5 EB
Misc : MS3738,VV4578,5.0,,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 22 08:34:50 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Qlast Update : Thu Oct 21 17:19:02 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : V108526.D
 Acq On : 21 Oct 2010 7:40 pm
 Operator : JIANHUAL
 Sample : JA58900-6 FB
 Misc : MS3738,VV4578,5.0,,,,,1
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 22 09:03:28 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Thu Oct 21 17:19:02 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.46	65	104742	500.00	ug/L	0.01
4) pentafluorobenzene	9.67	168	273199	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.62	114	414381	50.00	ug/L	0.00
93) chlorobenzene-d5	14.03	117	431469	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.66	152	216935	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.73	113	152756	48.71	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	97.42%
58) 1,2-dichloroethane-d4 (s)	10.16	65	150599	47.59	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	95.18%
85) toluene-d8 (s)	12.35	98	577588	54.19	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	108.38%
109) 4-bromofluorobenzene (s)	15.35	95	220509	45.12	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	90.24%

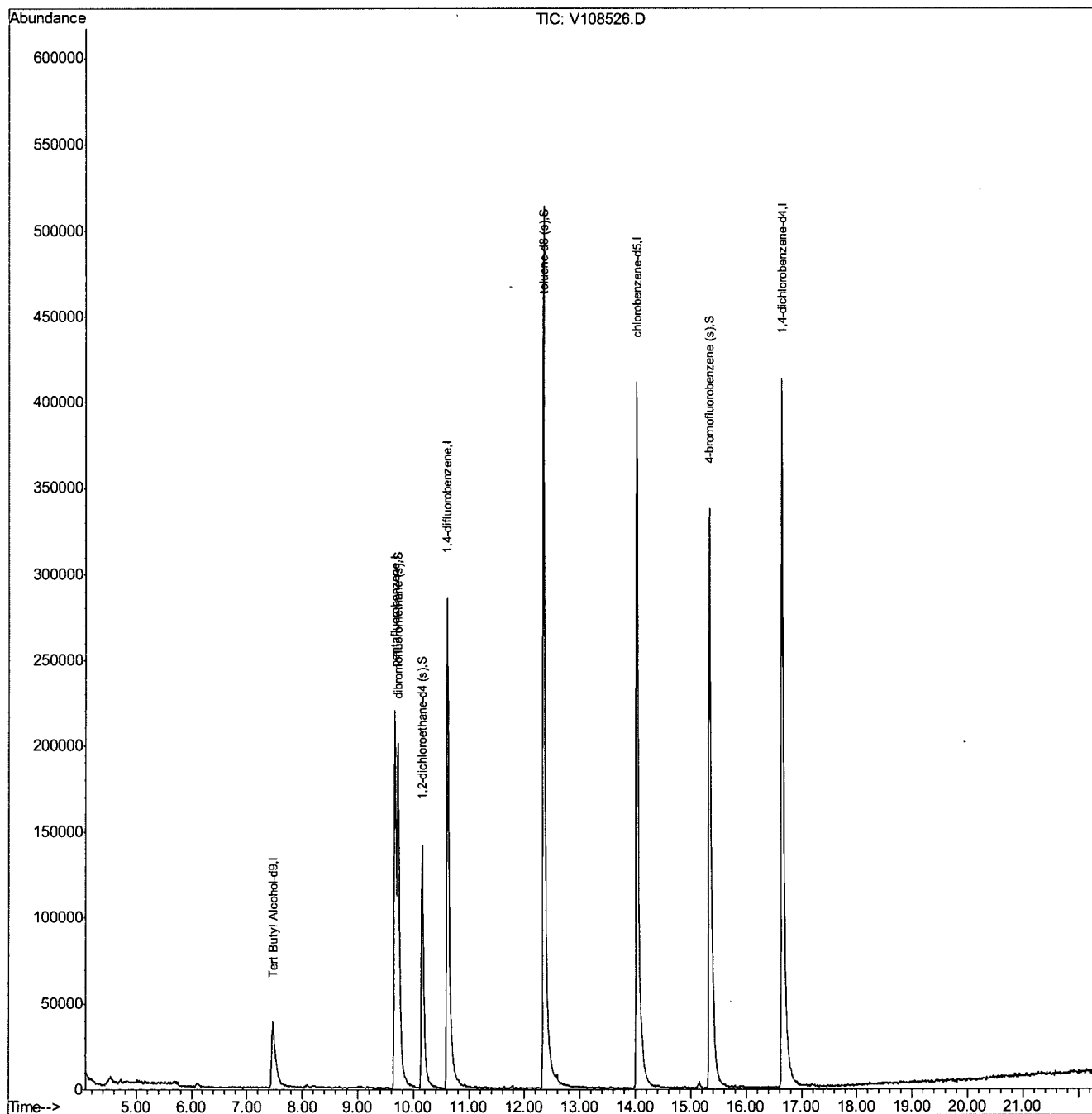
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : V108526.D
Acq On : 21 Oct 2010 7:40 pm
Operator : JIANHUAL
Sample : JA58900-6 FB
Misc : MS3738,VV4578,5.0,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 22 09:03:28 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Oct 21 17:19:02 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4581-4582\X108396.D Vial: 7
 Acq On : 27 Oct 2010 5:19 pm Operator: JUNTAEP
 Sample : ja58900-7 Inst : MSX
 Misc : MS3577,vx4581,16.2,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 27 17:42:30 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	7.34	65	67276	500.00	ug/L	-0.02
6) pentafluorobenzene	10.05	168	158662	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	223610	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	218315	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	105477	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.11	113	70006	51.63	ug/L	-0.01
Spiked Amount	50.000	Range 67 - 127	Recovery	=	103.26%	
54) 1,2-dichloroethane-d4 (s)	10.63	65	81456	54.52	ug/L	-0.01
Spiked Amount	50.000	Range 65 - 132	Recovery	=	109.04%	
84) toluene-d8 (s)	13.40	98	268051	54.99	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	109.98%	
109) 4-bromofluorobenzene (s)	16.92	95	117158	56.57	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	113.14%	

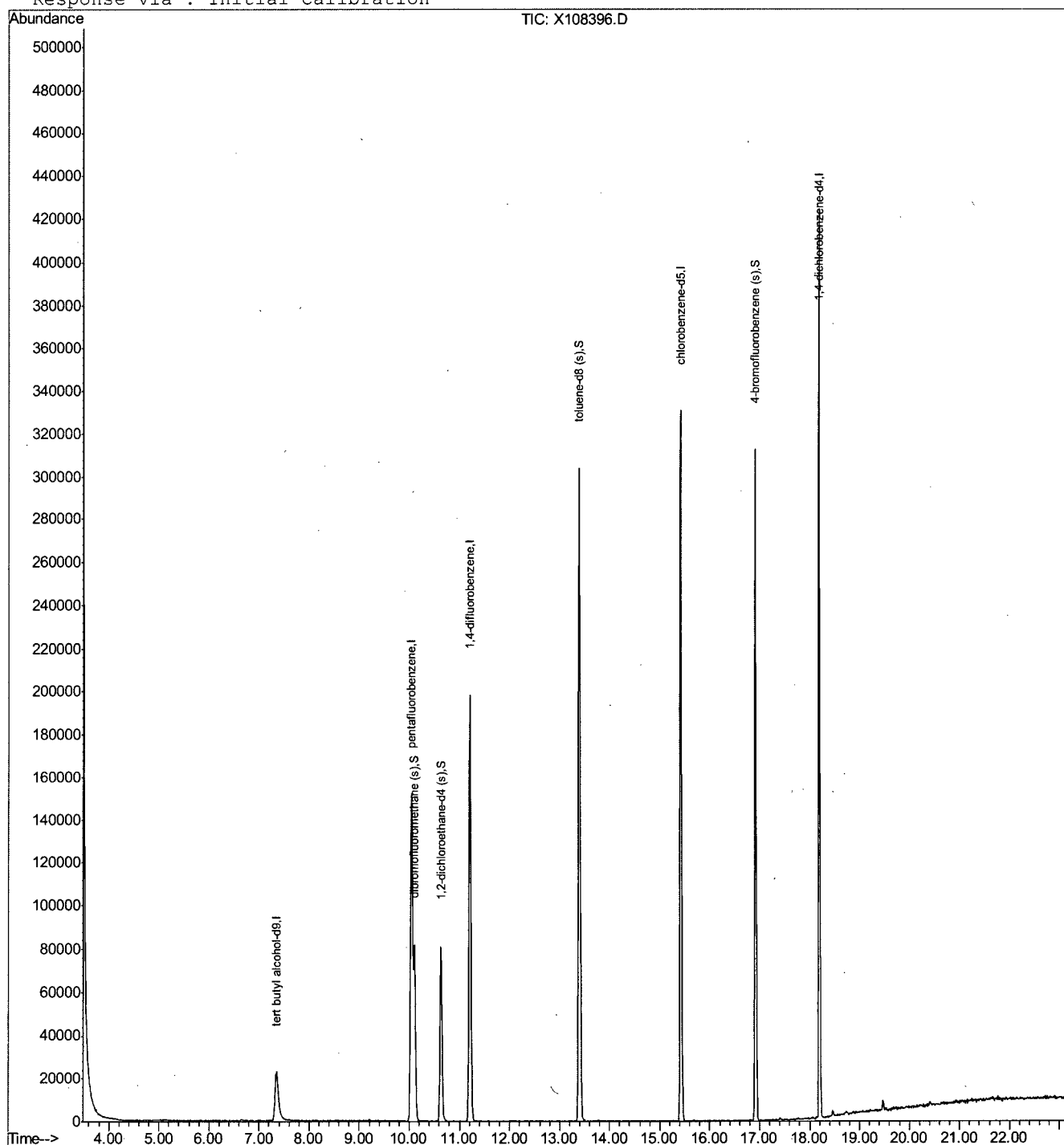
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108396.D MX4516.M Mon Nov 01 14:53:33 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4581-4582\X108396.D Vial: 7
Acq On : 27 Oct 2010 5:19 pm Operator: JUNTAEP
Sample : ja58900-7 Inst : MSX
Misc : MS3577,vx4581,16.2,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Nov 1 14:52 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



X108396.D MX4516.M

Mon Nov 01 14:53:33 2010

MSX

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108359.D Vial: 15
 Acq On : 26 Oct 2010 7:28 pm Operator: JUNTAEP
 Sample : ja58900-8 Inst : MSX
 Misc : MS3577,vx4579,10.4,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 19:51:52 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	69797	500.00	ug/L	-0.01
6) pentafluorobenzene	10.05	168	173994	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	228098	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	216561	50.00	ug/L	0.00
107) 1,4-dichlorobenzene-d4	18.20	152	90967	50.00	ug/L	0.00
System Monitoring Compounds						
53) dibromofluoromethane (s)	10.11	113	69132	46.49	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	92.98%
54) 1,2-dichloroethane-d4 (s)	10.64	65	79685	48.63	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	97.26%
84) toluene-d8 (s)	13.40	98	271187	54.54	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	109.08%
109) 4-bromofluorobenzene (s)	16.92	95	109514	61.32	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	122.64%

Target Compounds Qvalue

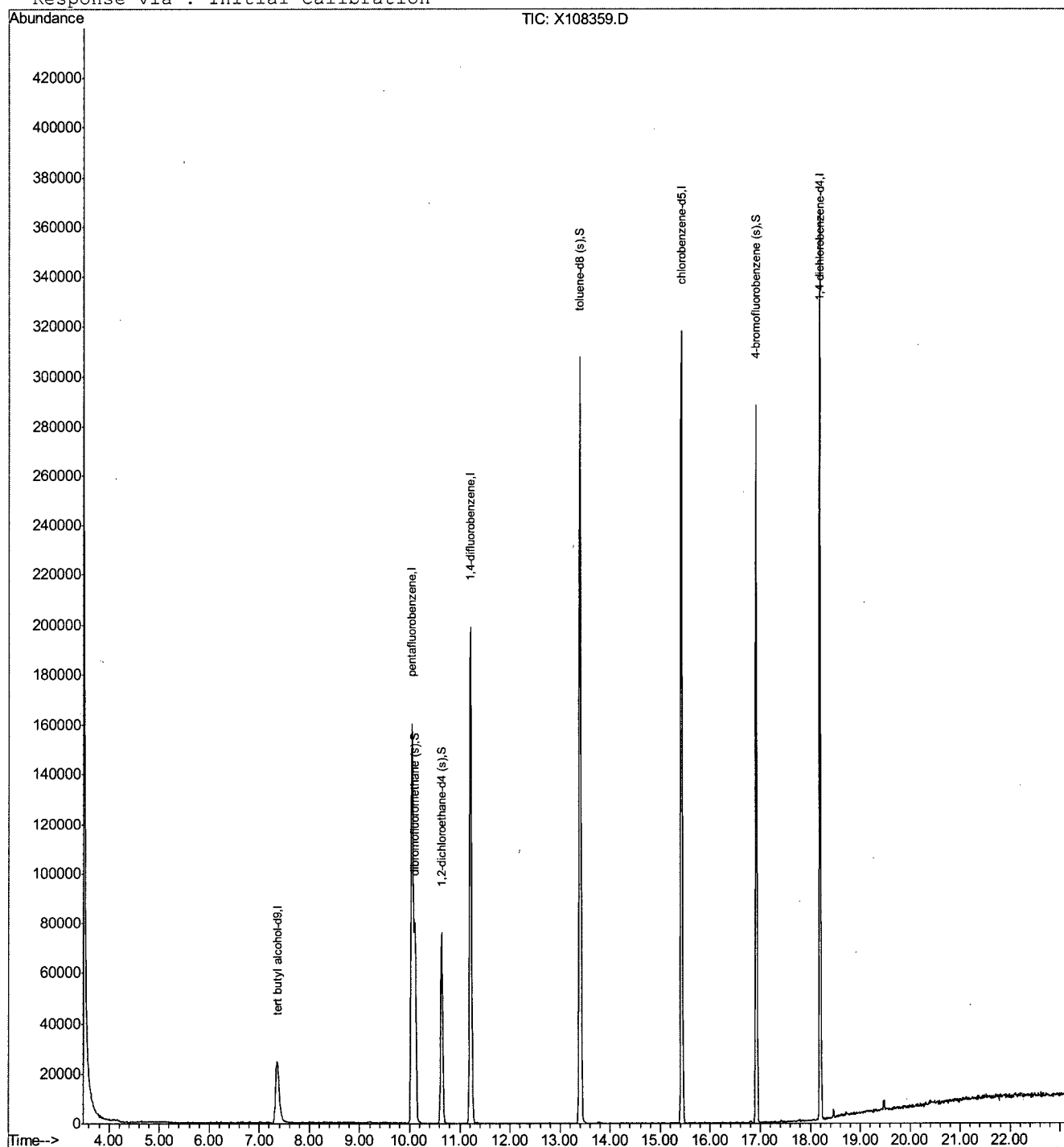
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108359.D MX4516.M Wed Oct 27 12:25:18 2010 MSX

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\WX4579-4580\X108359.D Vial: 15
Acq On : 26 Oct 2010 7:28 pm Operator: JUNTAEP
Sample : ja58900-8 Inst : MSX
Misc : MS3577,vx4579,10.4,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 12:15 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\VX4579-4580\X108360.D Vial: 16
 Acq On : 26 Oct 2010 7:57 pm Operator: JUNTAEP
 Sample : ja58900-9 Inst : MSX
 Misc : MS3577,vx4579,12.2,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 20:20:42 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	7.36	65	59976	500.00	ug/L	0.00
6) pentafluorobenzene	10.05	168	169039	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	221638	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	202132	50.00	ug/L	0.00
107) 1,4-dichlorobenzene-d4	18.20	152	77656	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.11	113	65313	45.21	ug/L	-0.01
Spiked Amount	50.000	Range 67 - 127	Recovery	=	90.42%	
54) 1,2-dichloroethane-d4 (s)	10.63	65	74178	46.60	ug/L	-0.01
Spiked Amount	50.000	Range 65 - 132	Recovery	=	93.20%	
84) toluene-d8 (s)	13.40	98	260785	53.97	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	107.94%	
109) 4-bromofluorobenzene (s)	16.92	95	96595	63.35	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	126.70%	

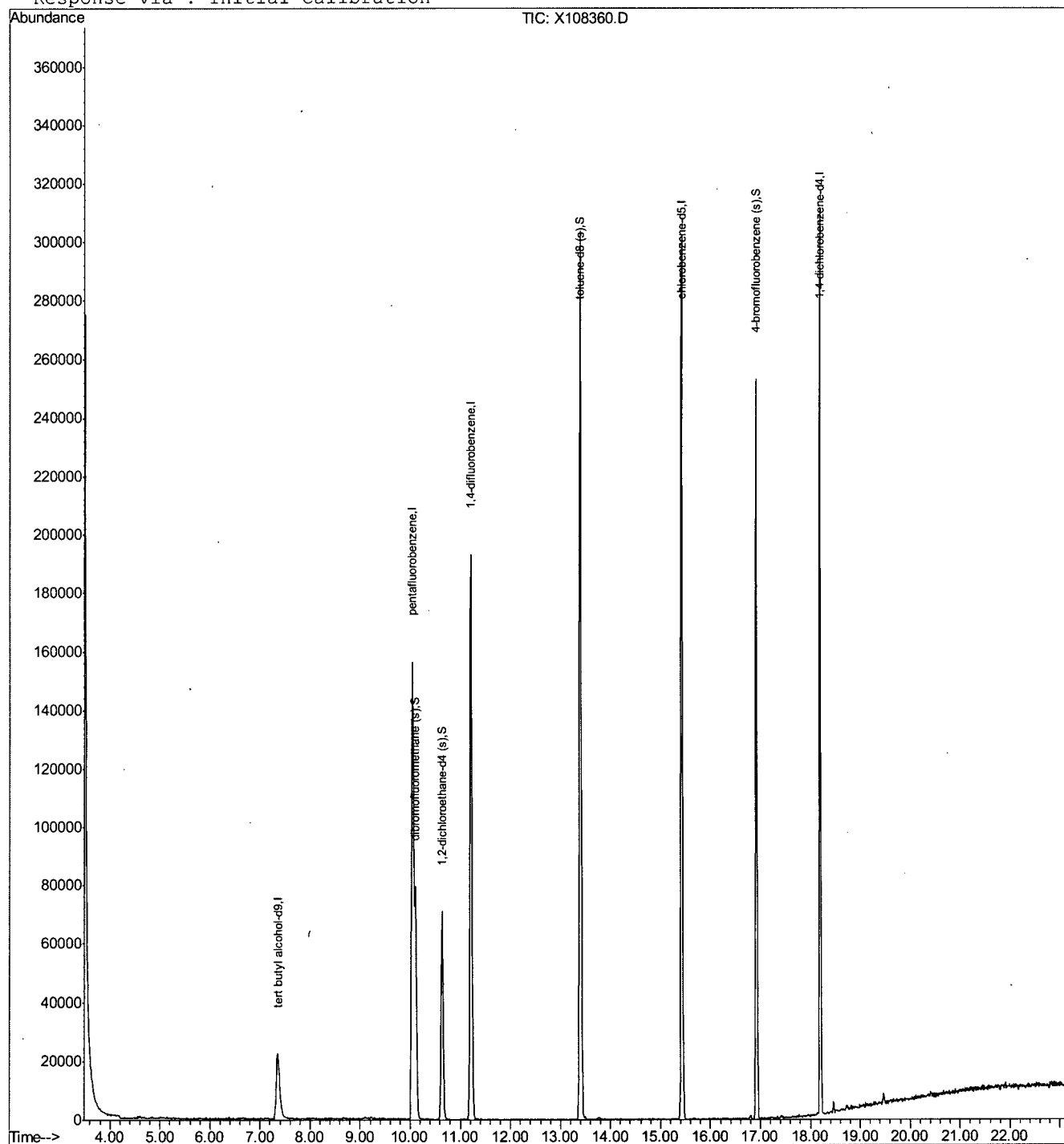
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108360.D MX4516.M Wed Oct 27 12:25:20 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108360.D Vial: 16
Acq On : 26 Oct 2010 7:57 pm Operator: JUNTAEP
Sample : ja58900-9 Inst : MSX
Misc : MS3577,vx4579,12.2,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 12:15 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\VX4579-4580\X108361.D Vial: 17
 Acq On : 26 Oct 2010 8:27 pm Operator: JUNTAEP
 Sample : ja58900-10 Inst : MSX
 Misc : MS3577,vx4579,9.7,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 20:50:22 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	64144	500.00	ug/L	-0.01
6) pentafluorobenzene	10.05	168	170368	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	229099	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	222491	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	108039	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.10	113	68030	46.72	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	93.44%
54) 1,2-dichloroethane-d4 (s)	10.64	65	78944	49.21	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	98.42%
84) toluene-d8 (s)	13.40	98	272233	54.51	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	109.02%
109) 4-bromofluorobenzene (s)	16.92	95	117220	55.26	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	110.52%

Target Compounds

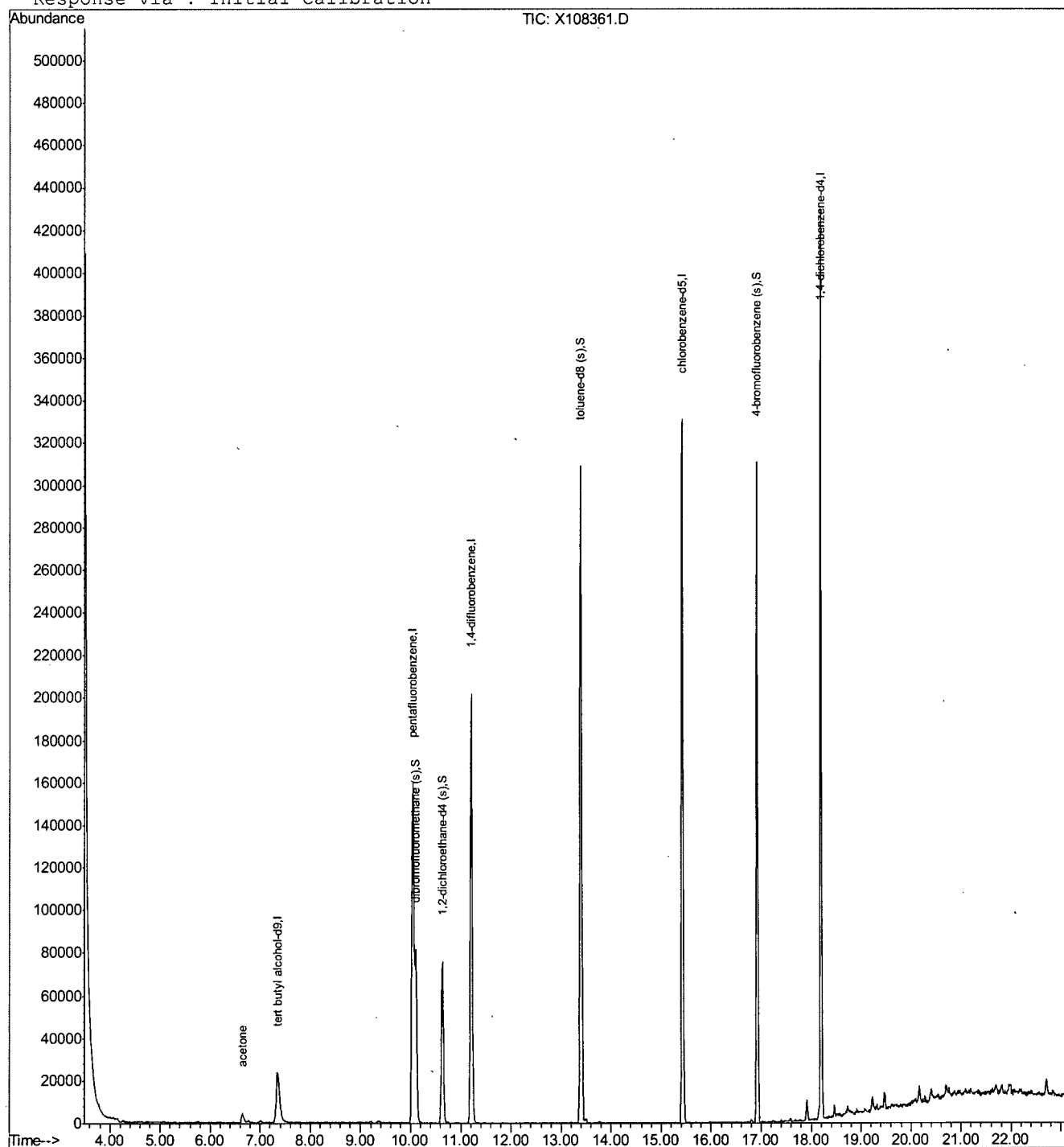
28) acetone	6.65	58	2446	19.27	ug/L	Qvalue 98
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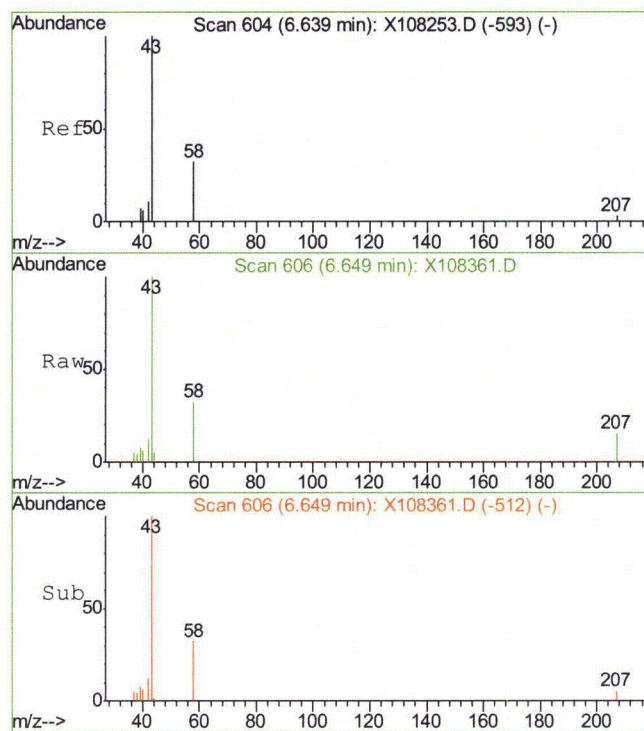
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108361.D MX4516.M Wed Oct 27 12:25:22 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108361.D Vial: 17
Acq On : 26 Oct 2010 8:27 pm Operator: JUNTAEP
Sample : ja58900-10 Inst : MSX
Misc : MS3577,vx4579,9.7,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 12:17 2010 Quant Results File: MX4516.RES

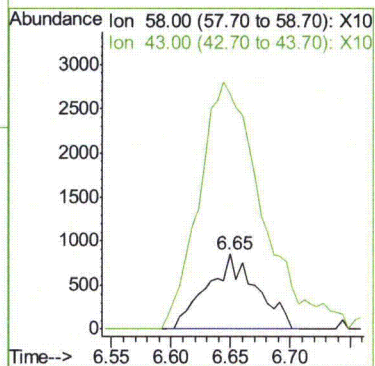
Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Mon Oct 25 16:35:25 2010
Response via : Initial Calibration





#28
acetone
Concen: 19.27 ug/L
RT: 6.65 min Scan# 606
Delta R.T. -0.01 min
Lab File: X108361.D
Acq: 26 Oct 2010 8:27 pm

Tgt Ion: 58 Resp: 2446
Ion Ratio Lower Upper
58 100
43 314.5 279.8 339.8



6.125

6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\WX4579-4580\X108362.D Vial: 18
Acq On : 26 Oct 2010 8:56 pm Operator: JUNTAEP
Sample : ja58900-11 Inst : MSX
Misc : MS3577,vx4579,9.2,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 26 21:19:43 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	60806	500.00	ug/L	0.00
6) pentafluorobenzene	10.05	168	164792	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	217940	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	215873	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	108138	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.10	113	66160	46.97	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	93.94%
54) 1,2-dichloroethane-d4 (s)	10.63	65	77248	49.78	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	99.56%
84) toluene-d8 (s)	13.40	98	259272	54.57	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	109.14%
109) 4-bromofluorobenzene (s)	16.92	95	115233	54.27	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	108.54%

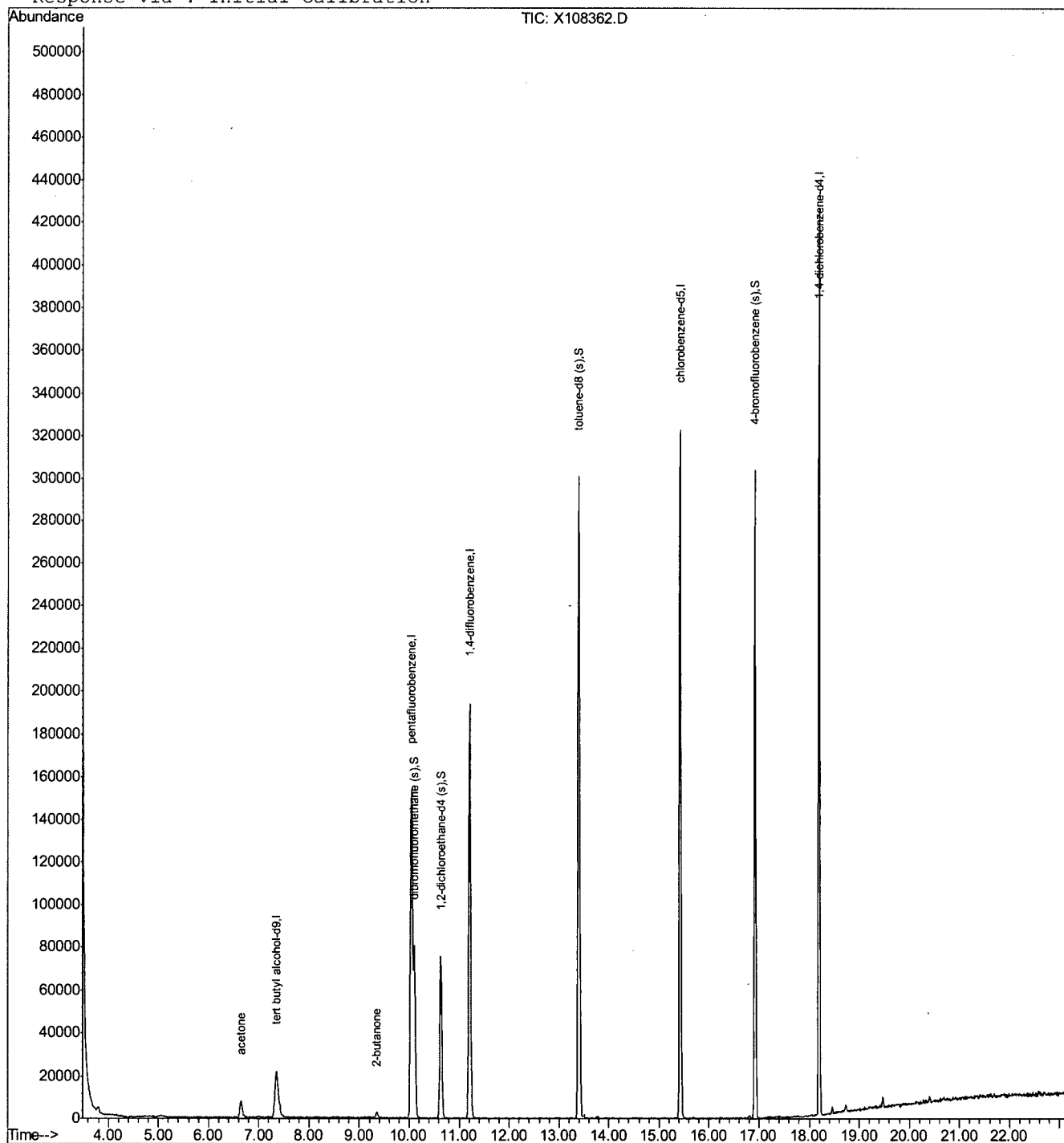
Target Compounds						Qvalue
28) acetone	6.64	58	5046	43.71	ug/L #	67
39) 2-butanone	9.34	72	1213	7.47	ug/L #	1

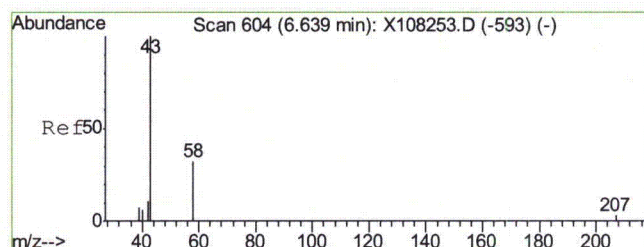
(#) = qualifier out of range (m) = manual integration (+) = signals summed
X108362.D MX4516.M Wed Oct 27 12:25:25 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108362.D Vial: 18
Acq On : 26 Oct 2010 8:56 pm Operator: JUNTAEP
Sample : ja58900-11 Inst : MSX
Misc : MS3577,vx4579,9.2,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 12:18 2010 Quant Results File: MX4516.RES

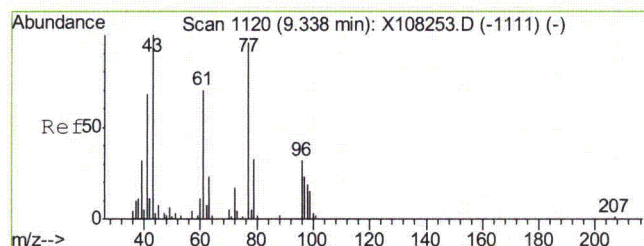
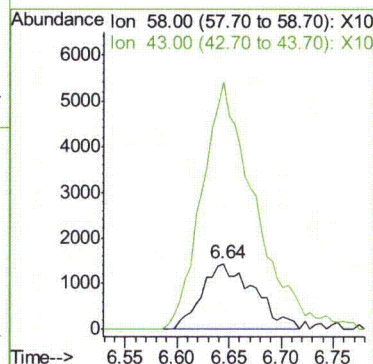
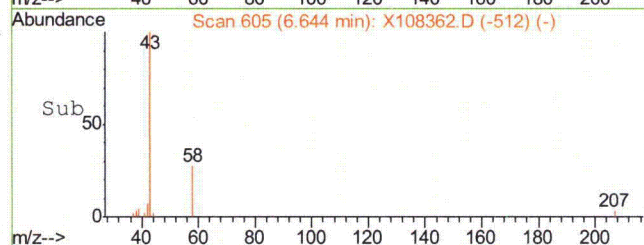
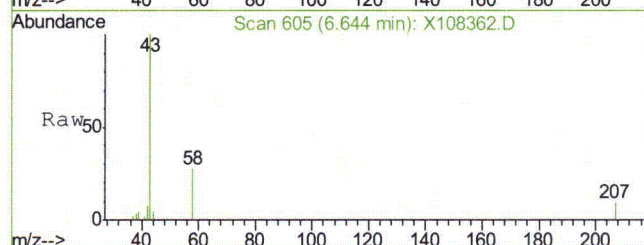
Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Mon Oct 25 16:35:25 2010
Response via : Initial Calibration





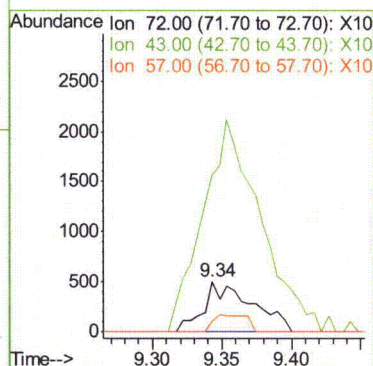
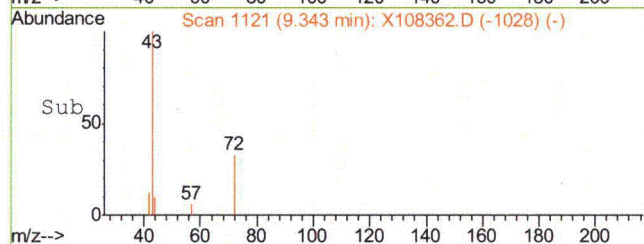
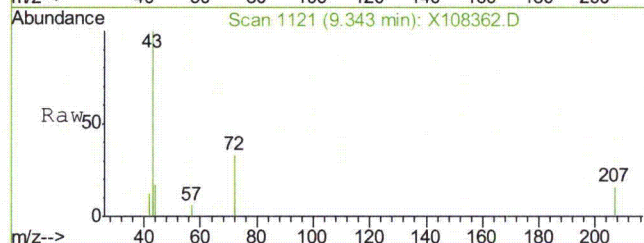
#28
acetone
Concen: 43.71 ug/L
RT: 6.64 min Scan# 605
Delta R.T. -0.01 min
Lab File: X108362.D
Acq: 26 Oct 2010 8:56 pm

Tgt Ion: 58 Resp: 5046
Ion Ratio Lower Upper
58 100
43 376.8 279.8 339.8#



#39
2-butanone
Concen: 7.47 ug/L
RT: 9.34 min Scan# 1121
Delta R.T. -0.01 min
Lab File: X108362.D
Acq: 26 Oct 2010 8:56 pm

Tgt Ion: 72 Resp: 1213
Ion Ratio Lower Upper
72 100
43 306.9 515.9 958.1#
57 19.8 19.7 36.7



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108363.D Vial: 19
 Acq On : 26 Oct 2010 9:25 pm Operator: JUNTAEP
 Sample : ja58900-12 Inst : MSX
 Misc : MS3577,vx4579,9.9,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 21:48:46 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

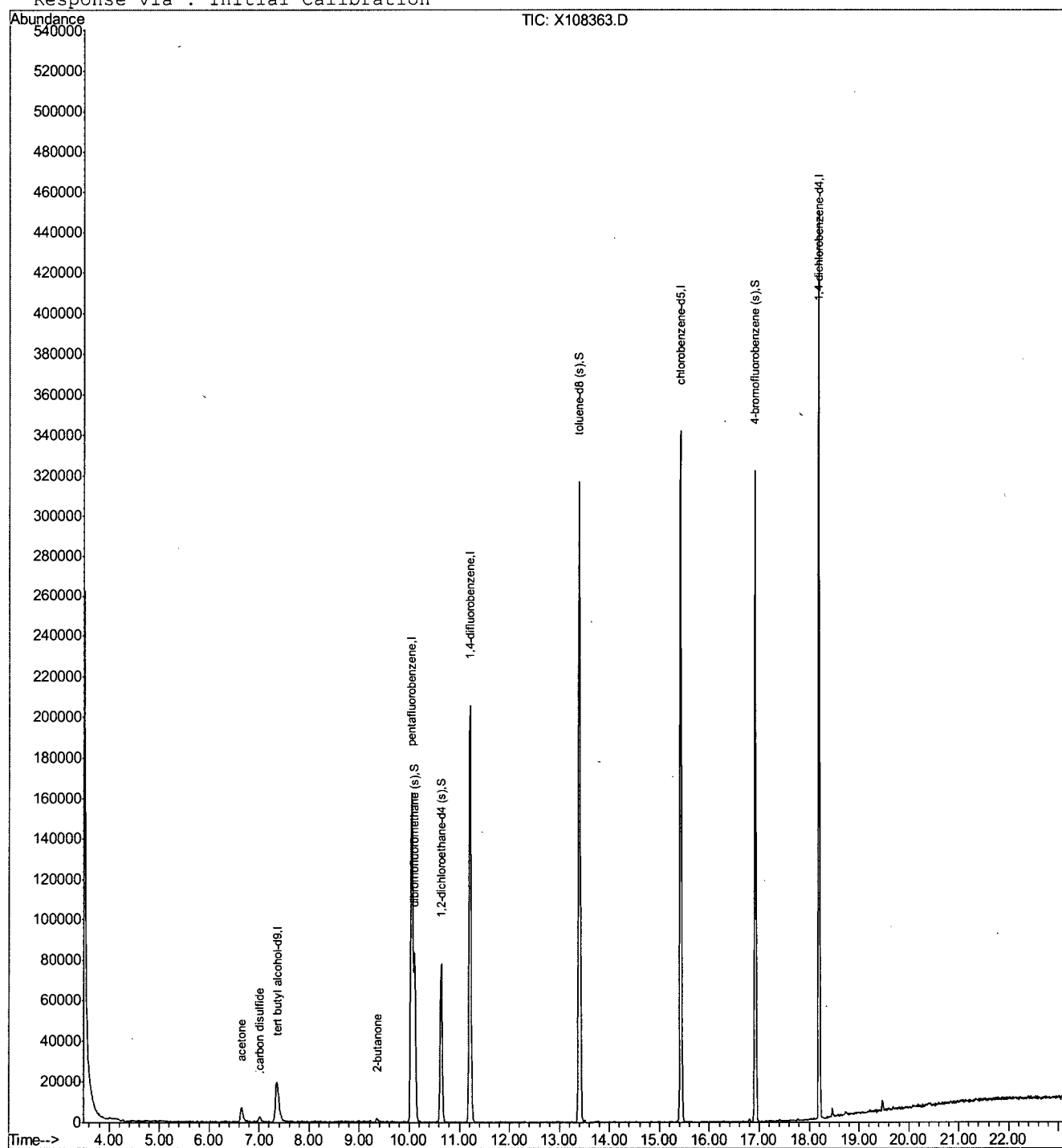
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.35	65	54149	500.00	ug/L	-0.01
6) pentafluorobenzene	10.05	168	174820	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	234713	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	228959	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	112666	50.00	ug/L	0.00
System Monitoring Compounds						
53) dibromofluoromethane (s)	10.11	113	70614	47.26	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 127	Recovery	=	94.52%
54) 1,2-dichloroethane-d4 (s)	10.64	65	80539	48.92	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	97.84%
84) toluene-d8 (s)	13.40	98	275279	53.80	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	107.60%
109) 4-bromofluorobenzene (s)	16.92	95	121540	54.94	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	109.88%
Target Compounds						
28) acetone	6.65	58	4490	36.29	ug/L #	75
33) carbon disulfide	7.01	76	5490	0.90	ug/L	79
39) 2-butanone	9.36	72	496	2.14	ug/L #	1

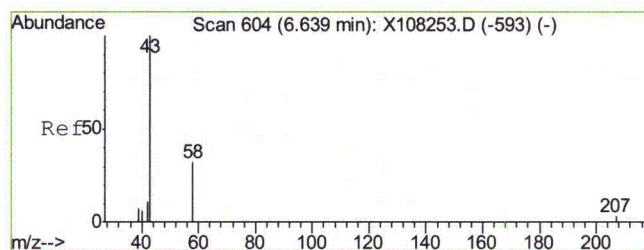
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108363.D MX4516.M Wed Oct 27 12:25:29 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108363.D Vial: 19
Acq On : 26 Oct 2010 9:25 pm Operator: JUNTAEP
Sample : ja58900-12 Inst : MSX
Misc : MS3577,vx4579,9.9,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 12:19 2010 Quant Results File: MX4516.RES

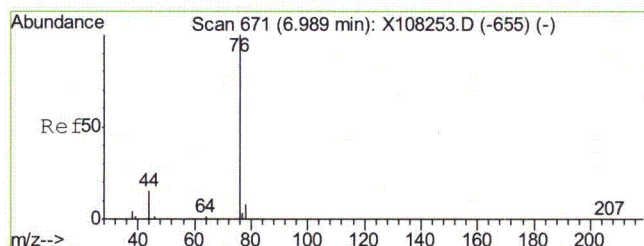
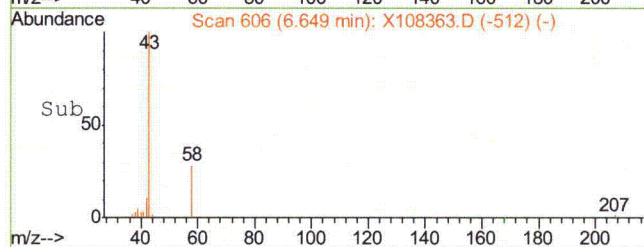
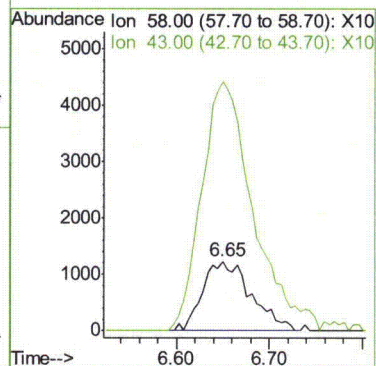
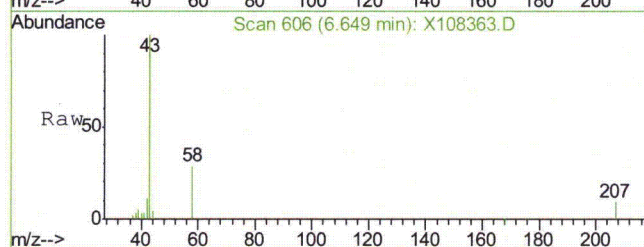
Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Mon Oct 25 16:35:25 2010
Response via : Initial Calibration





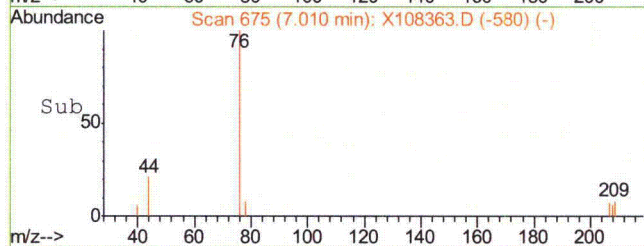
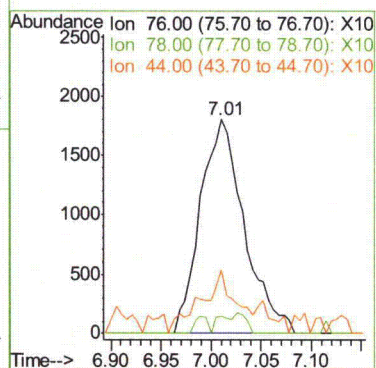
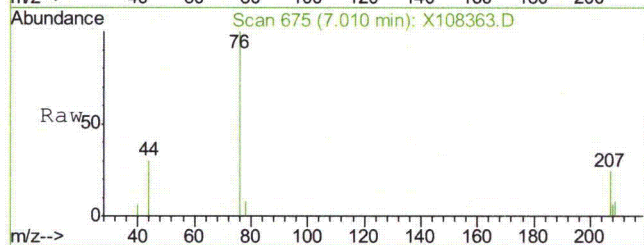
#28
acetone
Concen: 36.29 ug/L
RT: 6.65 min Scan# 606
Delta R.T. -0.01 min
Lab File: X108363.D
Acq: 26 Oct 2010 9:25 pm

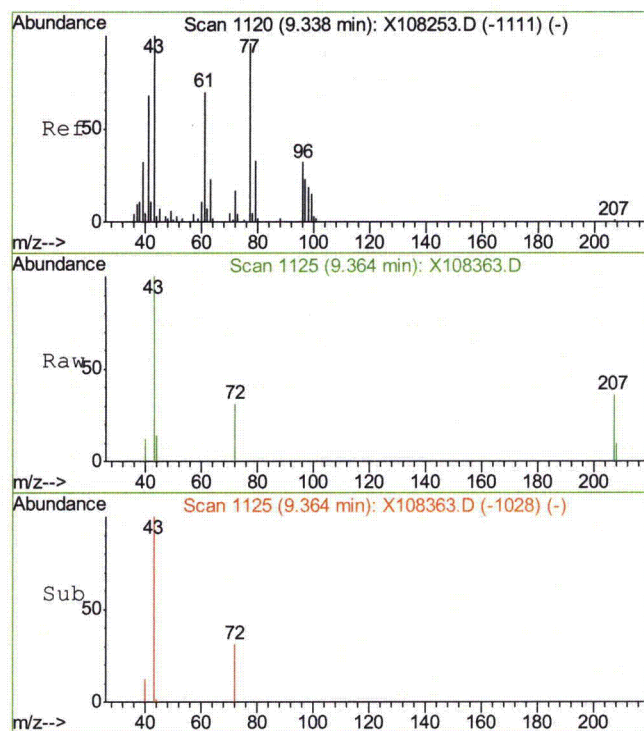
Tgt Ion: 58 Resp: 4490
Ion Ratio Lower Upper
58 100
43 360.1 279.8 339.8#



#33
carbon disulfide
Concen: 0.90 ug/L
RT: 7.01 min Scan# 675
Delta R.T. -0.00 min
Lab File: X108363.D
Acq: 26 Oct 2010 9:25 pm

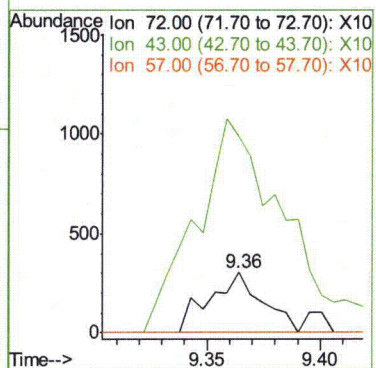
Tgt Ion: 76 Resp: 5490
Ion Ratio Lower Upper
76 100
78 8.1 0.0 39.5
44 26.5 0.0 43.1





#39
2-butanone
Concen: 2.14 ug/L
RT: 9.36 min Scan# 1125
Delta R.T. 0.01 min
Lab File: X108363.D
Acq: 26 Oct 2010 9:25 pm

Tgt Ion: 72 Resp: 496
Ion Ratio Lower Upper
72 100
43 227.2 515.9 958.1#
57 0.0 19.7 36.7#

6.1.27
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108351.D Vial: 7
 Acq On : 26 Oct 2010 3:10 pm Operator: JUNTAEP
 Sample : ja58900-13 Inst : MSX
 Misc : MS3577,vx4579,5.0,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 15:33:40 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	7.35	65	53738	500.00	ug/L	-0.01
6) pentafluorobenzene	10.05	168	150489	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	201696	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	195753	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	96193	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.11	113	60072	46.71	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 127	Recovery	=	93.42%
54) 1,2-dichloroethane-d4 (s)	10.63	65	70063	49.44	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	98.88%
84) toluene-d8 (s)	13.40	98	240300	54.65	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	109.30%
109) 4-bromofluorobenzene (s)	16.92	95	104318	55.23	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	110.46%

Target Compounds

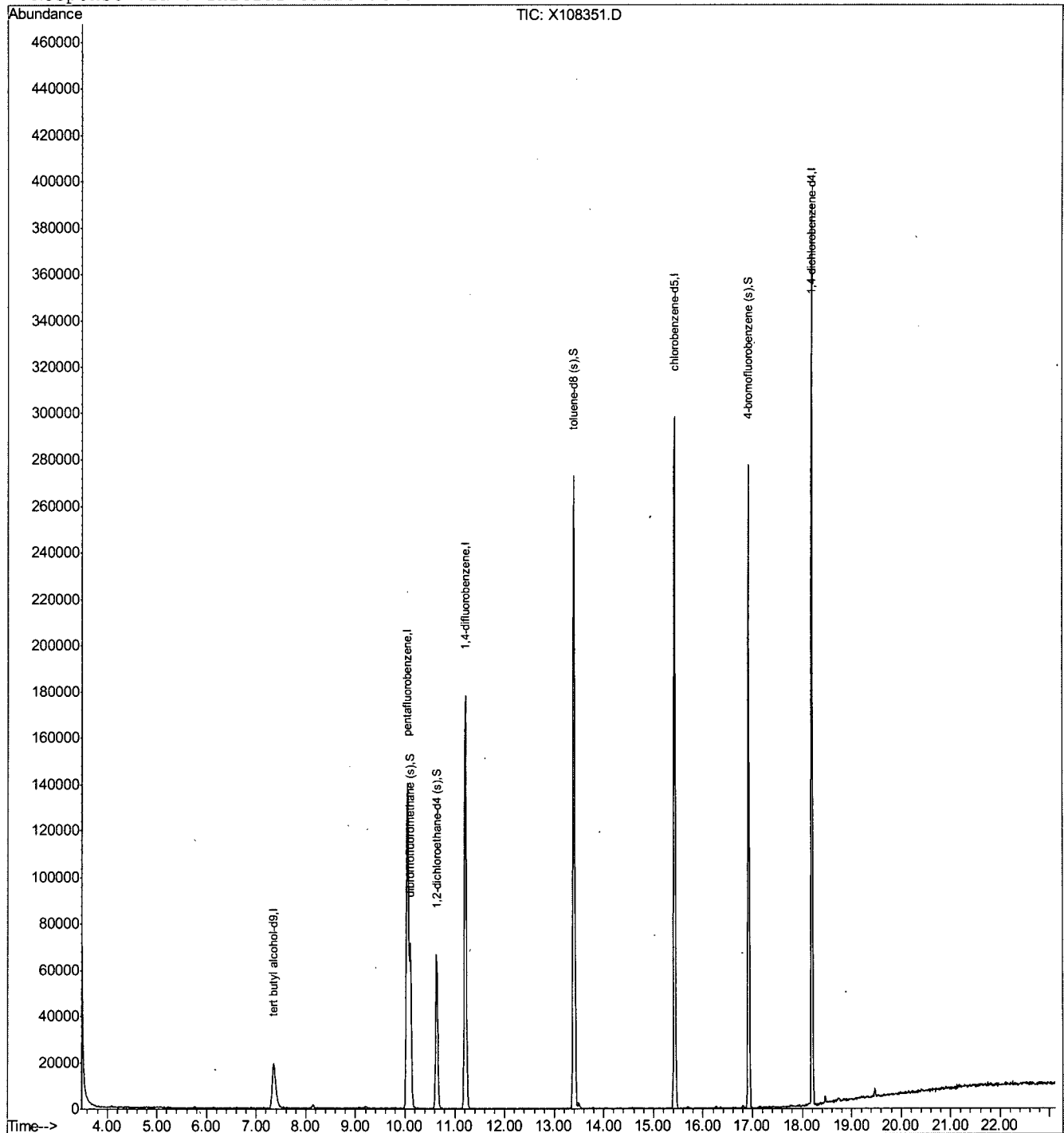
Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108351.D MX4516.M Wed Oct 27 12:25:07 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\XV4579-4580\X108351.D Vial: 7
Acq On : 26 Oct 2010 3:10 pm Operator: JUNTAEP
Sample : ja58900-13 Inst : MSX
Misc : MS3577,vx4579,5.0,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 11:56 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\VX4579-4580\X108364.D Vial: 20
 Acq On : 26 Oct 2010 9:55 pm Operator: JUNTAEP
 Sample : ja58900-14 Inst : MSX
 Misc : MS3577,vx4579,9.7,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 22:18:35 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	76238	500.00	ug/L	0.00
6) pentafluorobenzene	10.05	168	173767	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	232904	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	226611	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	106926	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.11	113	69840	47.03	ug/L	-0.01
Spiked Amount	50.000	Range 67 - 127	Recovery	=	94.06%	
54) 1,2-dichloroethane-d4 (s)	10.63	65	82733	50.56	ug/L	-0.01
Spiked Amount	50.000	Range 65 - 132	Recovery	=	101.12%	
84) toluene-d8 (s)	13.40	98	275552	54.27	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	108.54%	
109) 4-bromofluorobenzene (s)	16.92	95	117801	56.11	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	112.22%	

Target Compounds

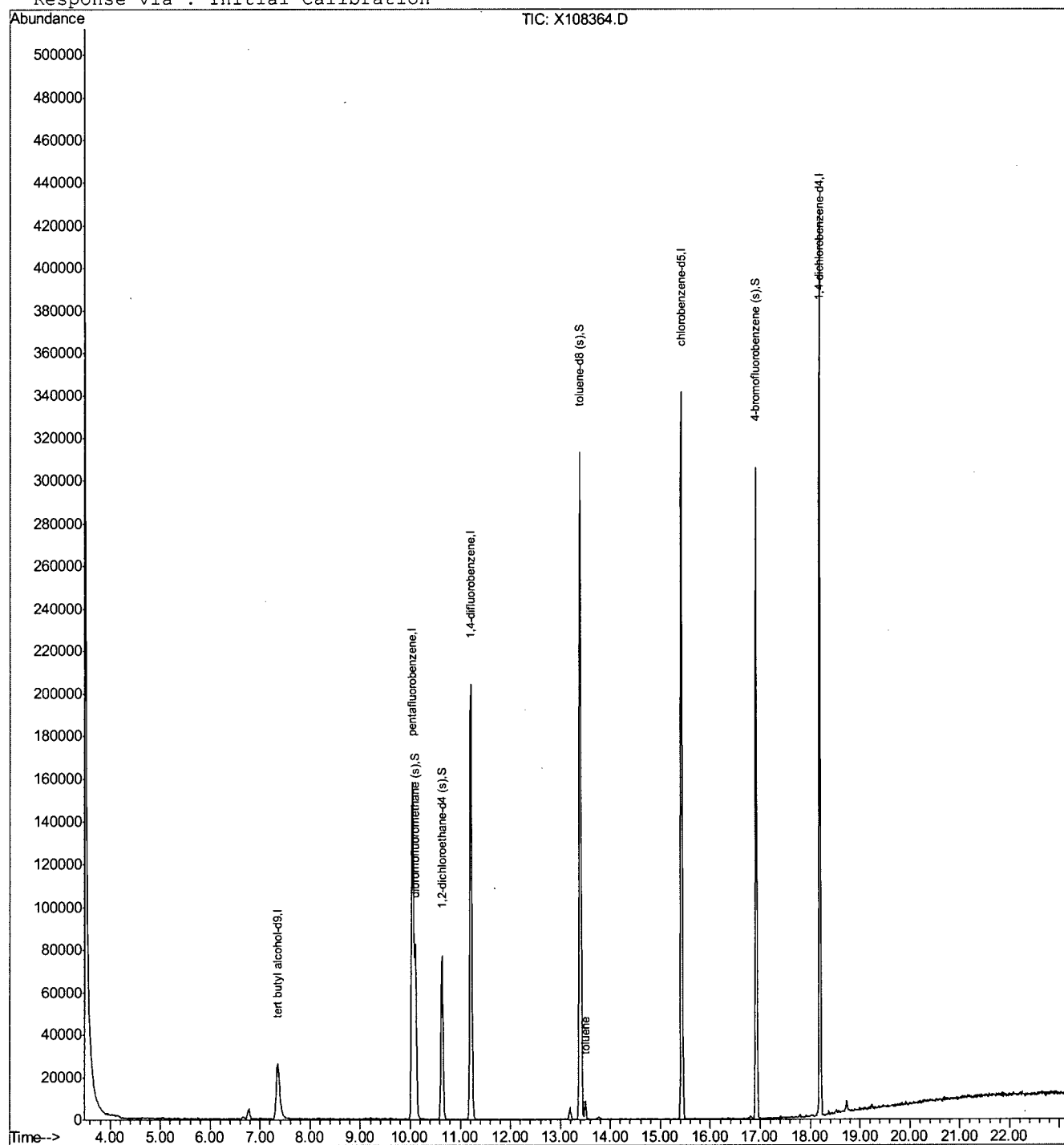
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
86) toluene	13.50	92	4782	1.27	ug/L	90

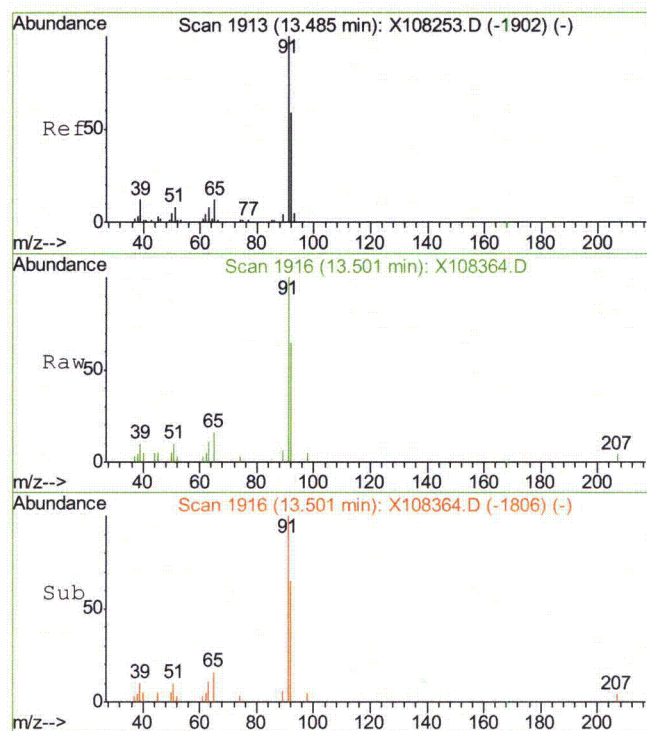
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108364.D MX4516.M Wed Oct 27 12:25:32 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108364.D Vial: 20
Acq On : 26 Oct 2010 9:55 pm Operator: JUNTAEP
Sample : ja58900-14 Inst : MSX
Misc : MS3577,vx4579,9.7,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 12:20 2010 Quant Results File: MX4516.RES

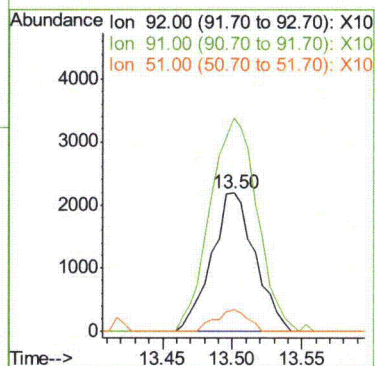
Method : C:\MSDCHEM\1\METHODS\MX4516.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Mon Oct 25 16:35:25 2010
Response via : Initial Calibration





#86
toluene
Concen: 1.27 ug/L
RT: 13.50 min Scan# 1916
Delta R.T. -0.01 min
Lab File: X108364.D
Acq: 26 Oct 2010 9:55 pm

Tgt Ion: 92 Resp: 4782
Ion Ratio Lower Upper
92 100
91 154.8 137.9 197.9
51 15.6 0.0 41.2



6.1.29

6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : V108525.D
 Acq On : 21 Oct 2010 7:09 pm
 Operator : JIANHUAL
 Sample : JA58900-15 TB
 Misc : MS3738,VV4578,5.0,,,,,1
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 22 08:33:45 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Thu Oct 21 17:19:02 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.46	65	110240	500.00	ug/L	0.01
4) pentafluorobenzene	9.67	168	268788	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.62	114	422095	50.00	ug/L	0.00
93) chlorobenzene-d5	14.03	117	434357	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.66	152	224565	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.73	113	154508	50.08	ug/L	0.00
Spiked Amount	50.000	Range 67 - 127	Recovery	=	100.16%	
58) 1,2-dichloroethane-d4 (s)	10.16	65	148530	47.71	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	=	95.42%	
85) toluene-d8 (s)	12.35	98	580762	53.49	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	106.98%	
109) 4-bromofluorobenzene (s)	15.35	95	223851	45.50	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	91.00%	

Target Compounds	Qvalue

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

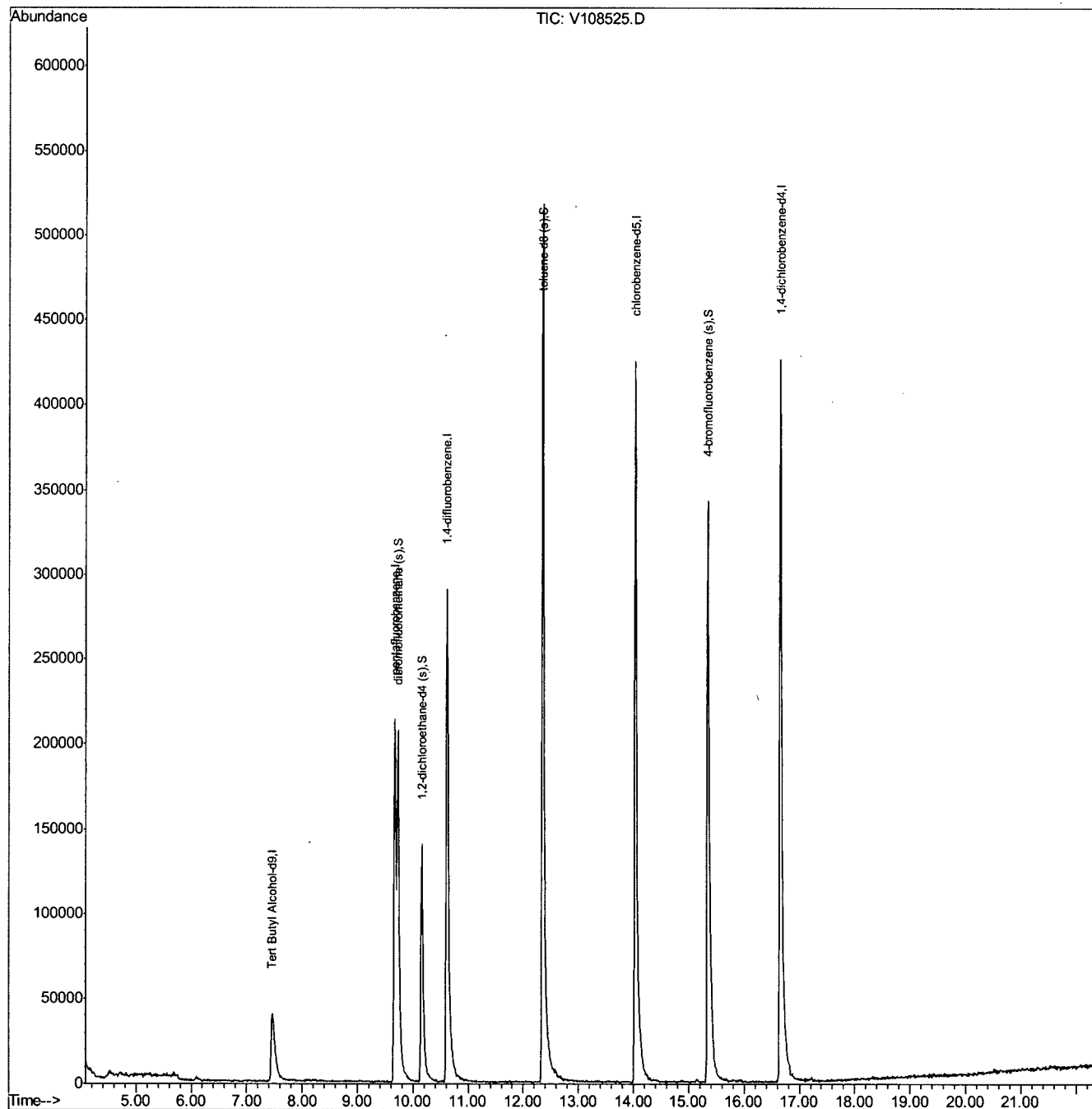
6.1.30

6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : V108525.D
Acq On : 21 Oct 2010 7:09 pm
Operator : JIANHUAL
Sample : JA58900-15 TB
Misc : MS3738,VV4578,5.0,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 22 08:33:45 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Oct 21 17:19:02 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4372\H100516.D Vial: 2
Acq On : 20 Oct 2010 5:01 pm Operator: kristis
Sample : mb Inst : MSH
Misc : ms3575,eh4372,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 21 8:17 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	7.94	56	3662946	35.94	ppm	0.01
Spiked Amount	50.000			Recovery	=	71.88%

Target Compounds

Qvalue

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

H100516.D M4362EPG.M Thu Oct 21 08:17:42 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4372\H100516.D

Vial: 2

Acq On : 20 Oct 2010 5:01 pm

Operator: kristis

Sample : mb

Inst : MSH

Misc : ms3575,eh4372,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 21 8:17 2010

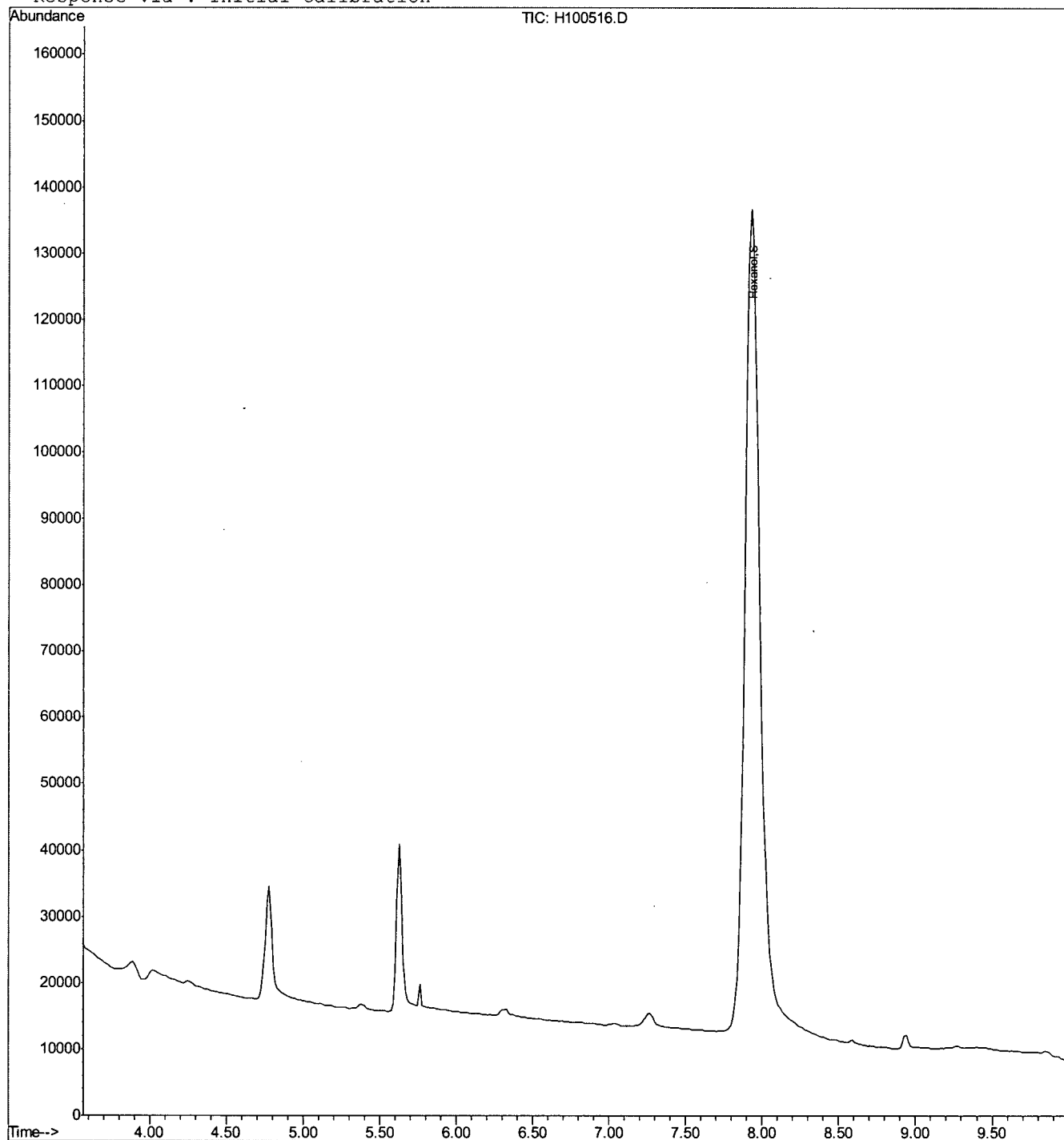
Quant Results File: M4362EPG.RES

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



H100516.D M4362EPG.M

Thu Oct 21 08:17:42 2010

MSH

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4374\H100573.D Vial: 2
Acq On : 26 Oct 2010 4:55 pm Operator: kristis
Sample : mb Inst : MSH
Misc : ms3576,eh4374,5.0,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 26 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 : 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	7.98	56	4051156	39.75	ppm	0.05
Spiked Amount	50.000		Recovery	=	79.50%	

Target Compounds

Qvalue

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

H100573.D M4362EPG.M Tue Nov 02 18:26:25 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100573.D

Vial: 2

Acq On : 26 Oct 2010 4:55 pm

Operator: kristis

Sample : mb

Inst : MSH

Misc : ms3576,eh4374,5.0,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 26 16:54 2010

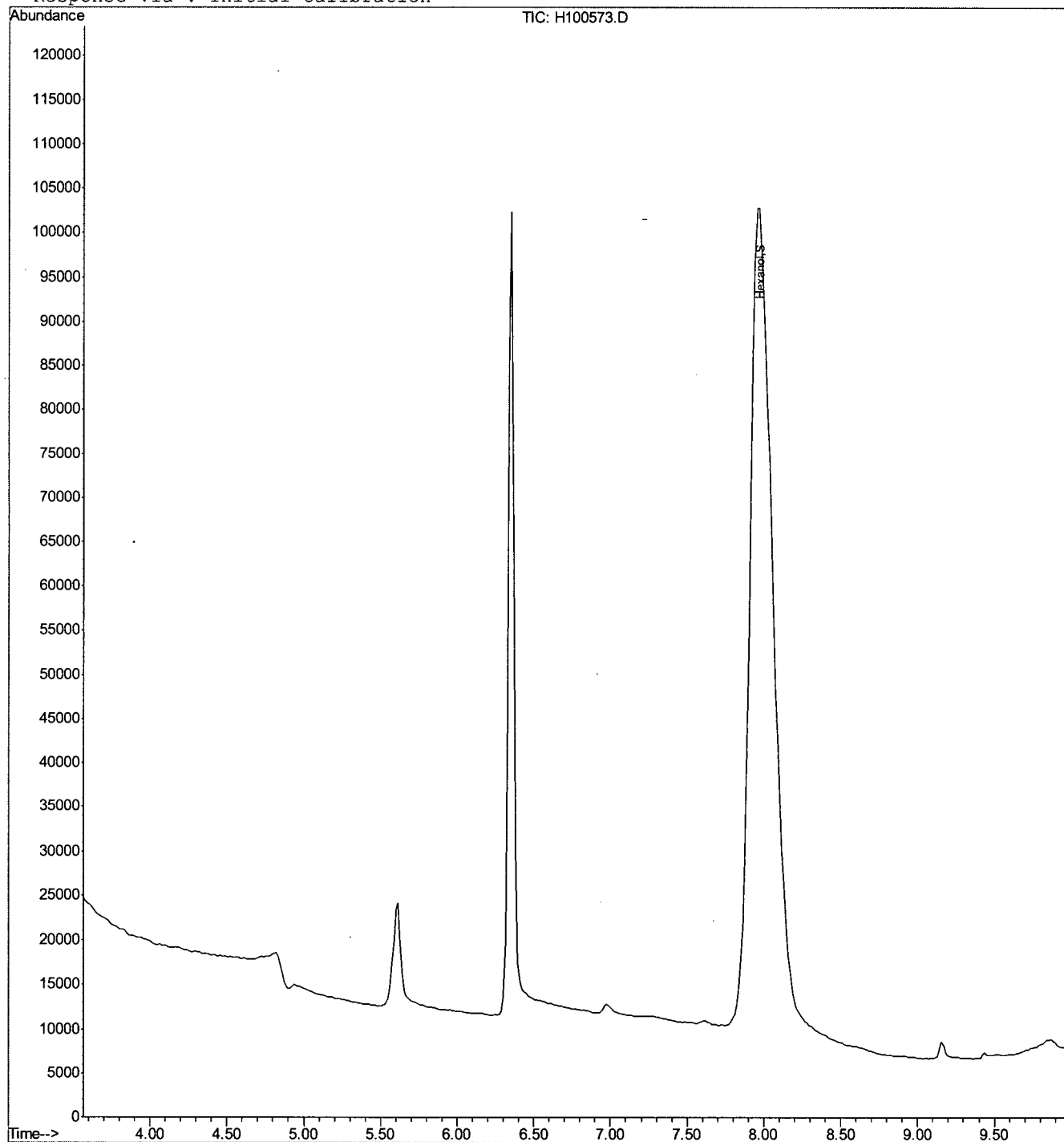
Quant Results File: M4362EPG.RES

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

Title : Ethylene Glycol Propylene Glycol

Last Update : Tue Nov 02 18:25:42 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4374\H100589.D Vial: 2
Acq On : 27 Oct 2010 1:21 pm Operator: kristis
Sample : mb2 Inst : MSH
Misc : ms3472,eh4374,5.0,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 27 13:22 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	5168910	50.71	ppm	0.11
Spiked Amount	50.000			Recovery	=	101.42%

Target Compounds

Qvalue

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

H100589.D M4362EPG.M Tue Nov 02 18:07:45 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100589.D

Vial: 2

Acq On : 27 Oct 2010 1:21 pm

Operator: kristis

Sample : mb2

Inst : MSH

Misc : ms3472,eh4374,5.0,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 27 13:22 2010

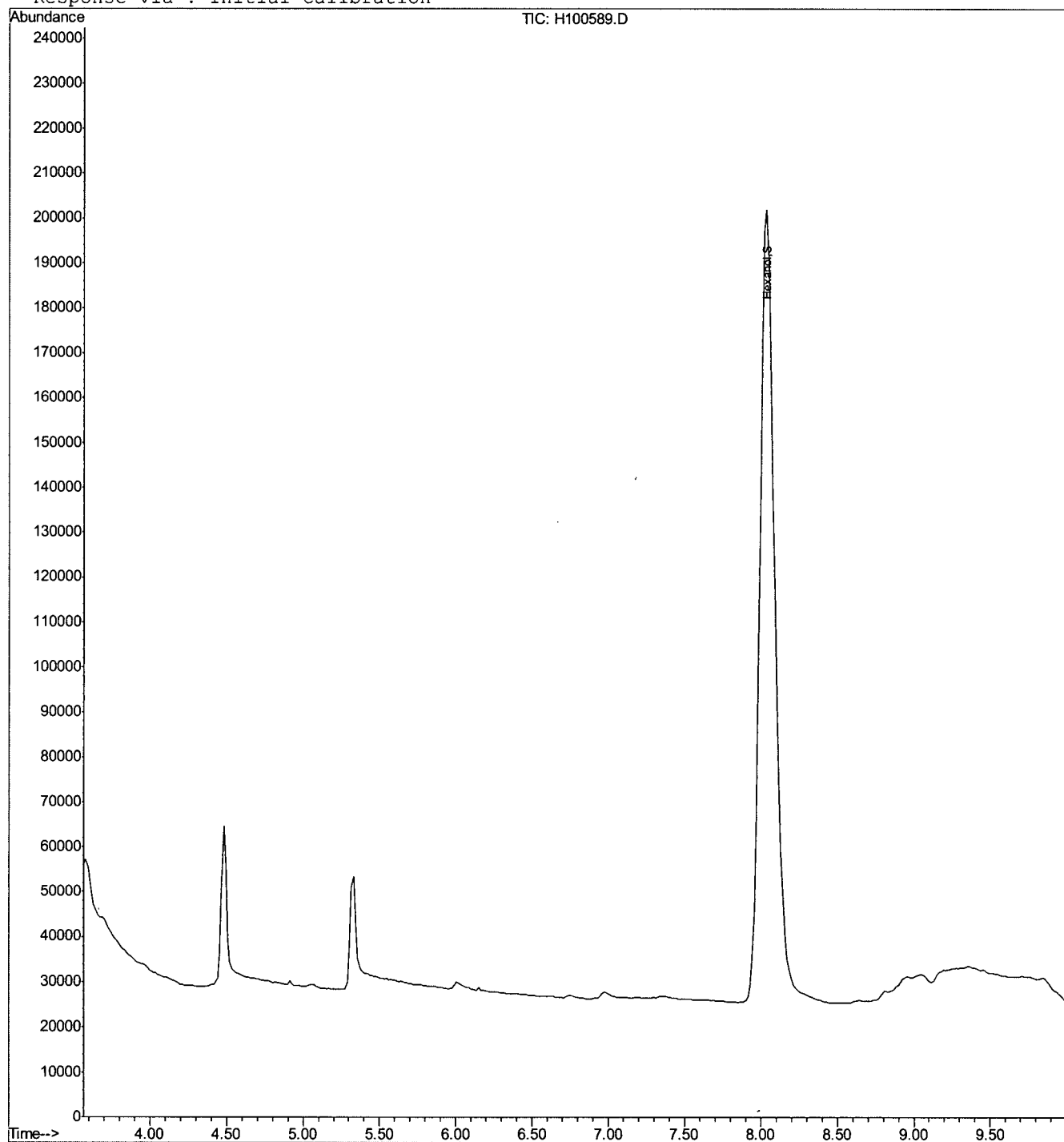
Quant Results File: M4362EPG.RES

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

Title : Ethylene Glycol Propylene Glycol

Last Update : Tue Nov 02 09:58:52 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : V108521.D
Acq On : 21 Oct 2010 5:07 pm
Operator : JIANHUAL
Sample : MB1
Misc : MS3738,VV4578,5,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 18:33:58 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Oct 21 17:19:02 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.46	65	90489	500.00	ug/L	0.01
4) pentafluorobenzene	9.68	168	241123	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.62	114	376523	50.00	ug/L	0.00
93) chlorobenzene-d5	14.04	117	389769	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.66	152	193229	50.00	ug/L	0.01

System Monitoring Compounds

57) dibromofluoromethane (s)	9.73	113	135816	49.07	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	98.14%
58) 1,2-dichloroethane-d4 (s)	10.17	65	134603	48.20	ug/L	0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	96.40%
85) toluene-d8 (s)	12.35	98	510420	52.70	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	105.40%
109) 4-bromofluorobenzene (s)	15.35	95	195489	44.28	ug/L	0.01
Spiked Amount	50.000	Range	62 - 138	Recovery	=	88.56%

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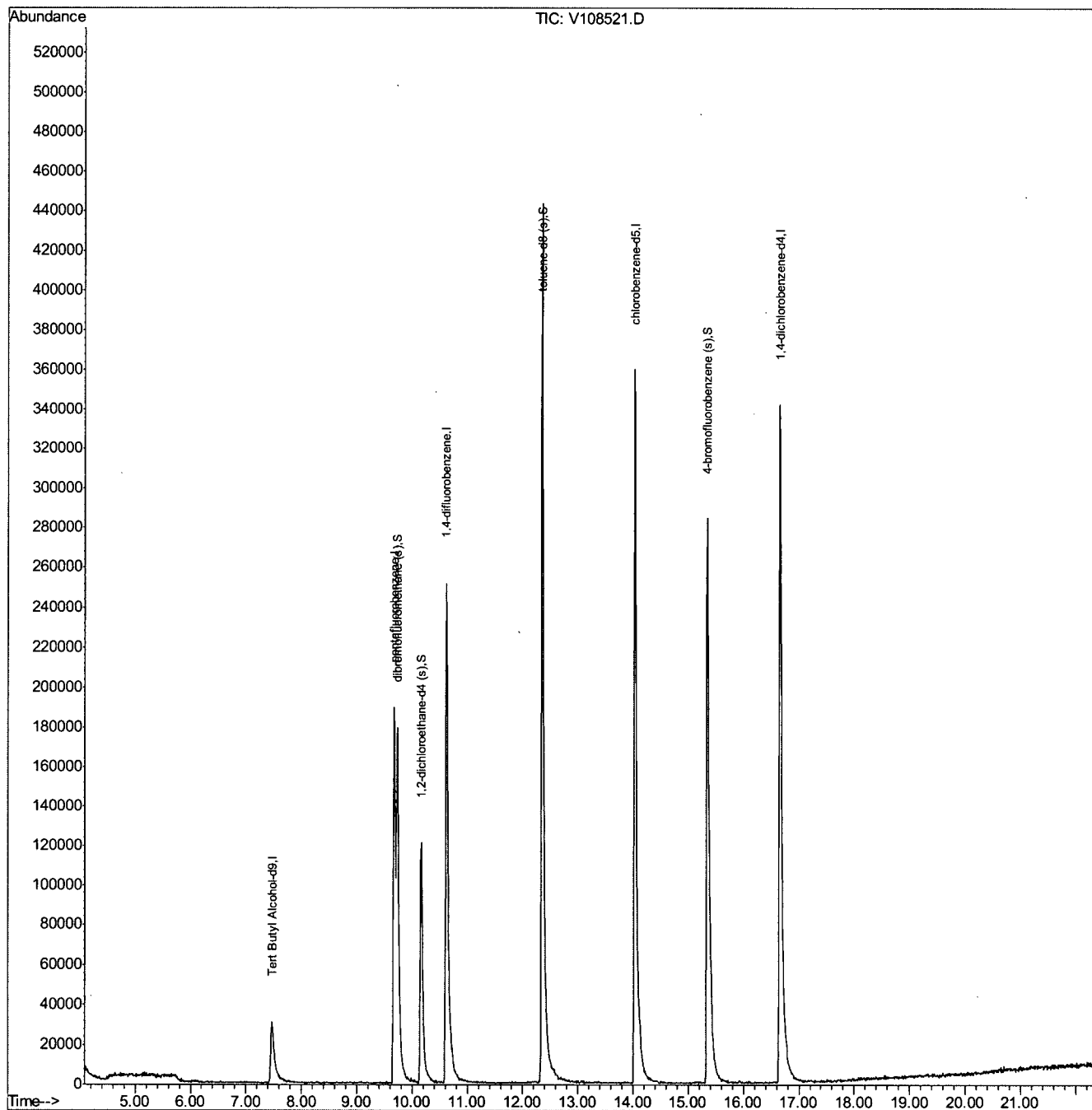
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.2.4
6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : V108521.D
Acq On : 21 Oct 2010 5:07 pm
Operator : JIANHUAL
Sample : MB1
Misc : MS3738,VV4578,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 18:33:58 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Oct 21 17:19:02 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108348.D Vial: 4
Acq On : 26 Oct 2010 1:21 pm Operator: JUNTAEP
Sample : mb Inst : MSX
Misc : MS3780,vx4579,5.0,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 26 13:44:50 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	55092	500.00	ug/L	-0.01
6) pentafluorobenzene	10.04	168	144318	50.00	ug/L	-0.01
61) 1,4-difluorobenzene	11.21	114	191766	50.00	ug/L	-0.01
92) chlorobenzene-d5	15.43	117	190315	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	96057	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.10	113	59525	48.26	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	96.52%
54) 1,2-dichloroethane-d4 (s)	10.63	65	69808	51.37	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	102.74%
84) toluene-d8 (s)	13.40	98	231896	55.47	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	110.94%
109) 4-bromofluorobenzene (s)	16.92	95	102185	54.18	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	108.36%

Target Compounds

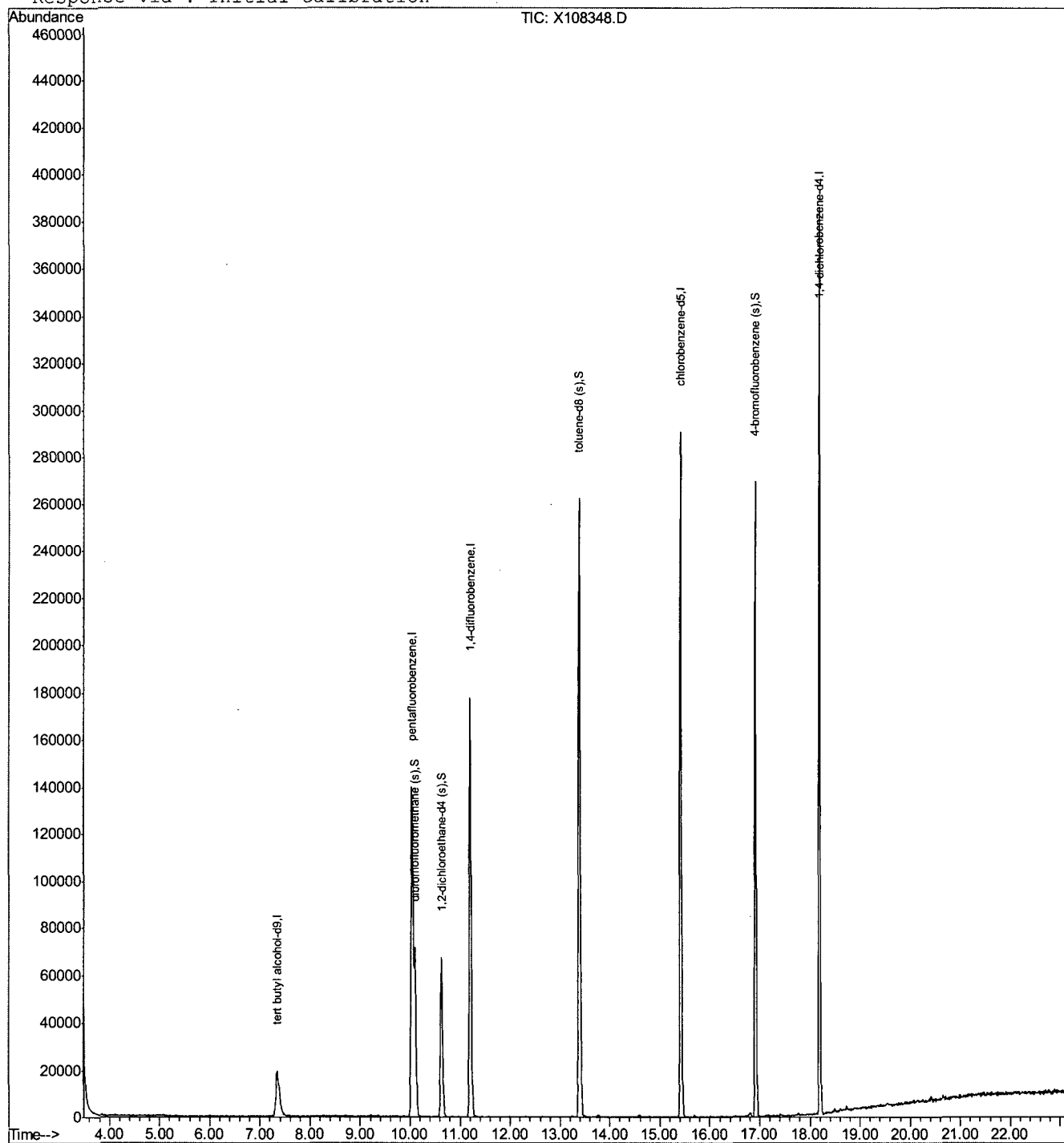
Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
X108348.D MX4516.M Wed Oct 27 12:25:05 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108348.D Vial: 4
Acq On : 26 Oct 2010 1:21 pm Operator: JUNTAEP
Sample : mb Inst : MSX
Misc : MS3780,vx4579,5.0,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 11:54 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\VX4581-4582\X108393.D Vial: 4
 Acq On : 27 Oct 2010 3:33 pm Operator: JUNTAEP
 Sample : MB2 Inst : MSX
 Misc : MS3790,vx4579,5.0,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 27 15:56:44 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	70732	500.00	ug/L	0.00
6) pentafluorobenzene	10.05	168	144369	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	203282	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	199455	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	102603	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.11	113	63809	51.71	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 127	Recovery	=	103.42%
54) 1,2-dichloroethane-d4 (s)	10.63	65	76667	56.39	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	112.78%
84) toluene-d8 (s)	13.40	98	246230	55.56	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	111.12%
109) 4-bromofluorobenzene (s)	16.92	95	106245	52.74	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	105.48%

Target Compounds

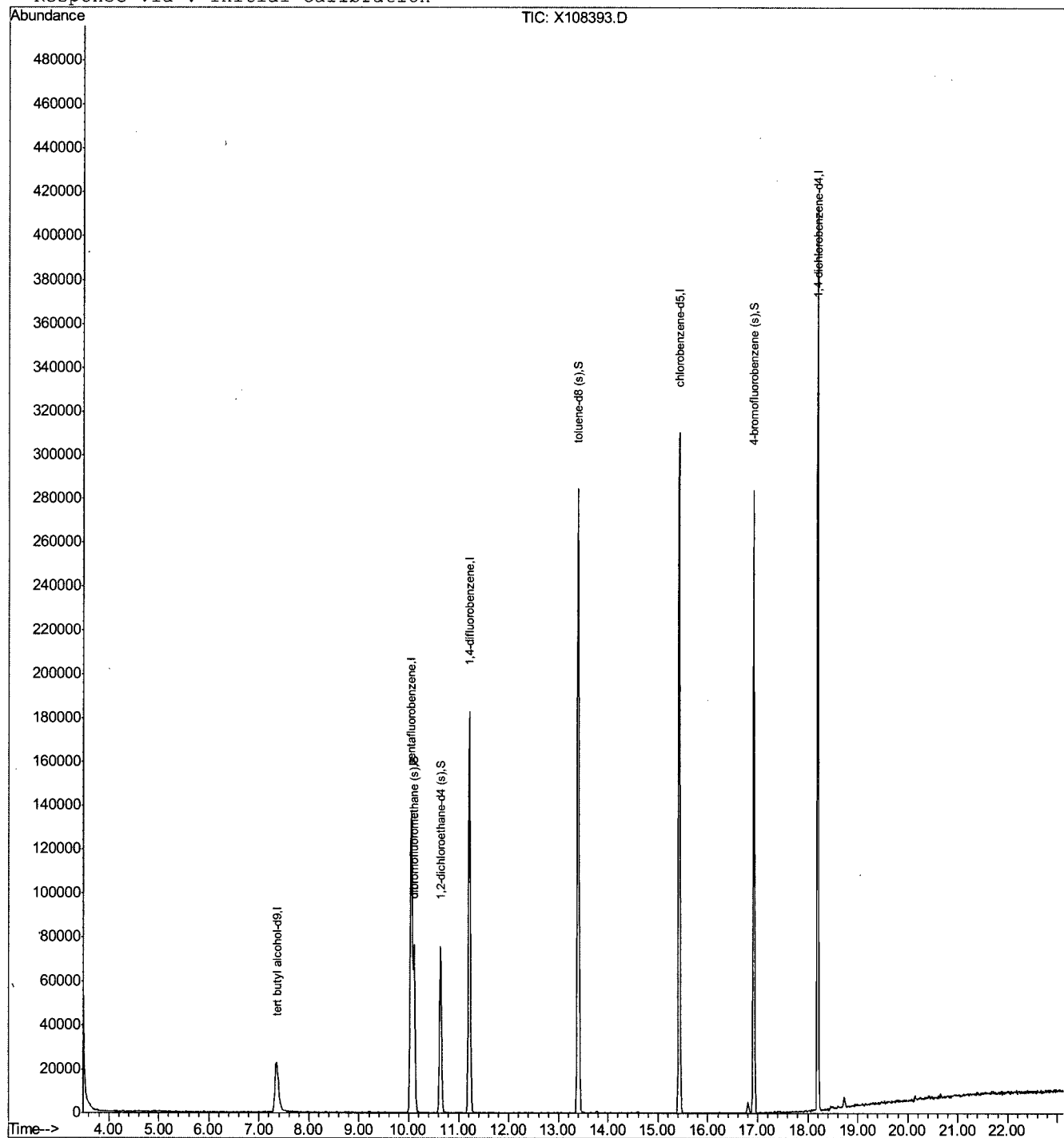
Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108393.D MX4516.M Mon Nov 01 14:53:28 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4581-4582\X108393.D Vial: 4
Acq On : 27 Oct 2010 3:33 pm Operator: JUNTAEP
Sample : MB2 Inst : MSX
Misc : MS3790,vx4579,5.0,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Nov 1 14:51 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:\HPCHEM\1\DATA\EH4372\H100517.D Vial: 3
Acq On : 20 Oct 2010 5:18 pm Operator: kristis
Sample : bs Inst : MSH
Misc : ms3575,eh4372,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 21 8:18 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 08:18:48 2010
Response via : Initial Calibration
DataAcq Meth : M4362EPG

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

System Monitoring Compounds						
3) Hexanol	8.00	56	7375824	72.36	ppm	0.00
Spiked Amount	50.000		Recovery	=	144.72%	
Target Compounds						
1) Ethylene Glycol	6.12	31	742189	2.84	ppm	99
2) Propylene Glycol	6.87	45	1255600	4.42	ppm	99

6.3.1
6

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

H100517.D M4362EPG.M Thu Oct 21 08:19:07 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4372\H100517.D

Vial: 3

Acq On : 20 Oct 2010 5:18 pm

Operator: kristis

Sample : bs

Inst : MSH

Misc : ms3575,eh4372,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 21 8:18 2010

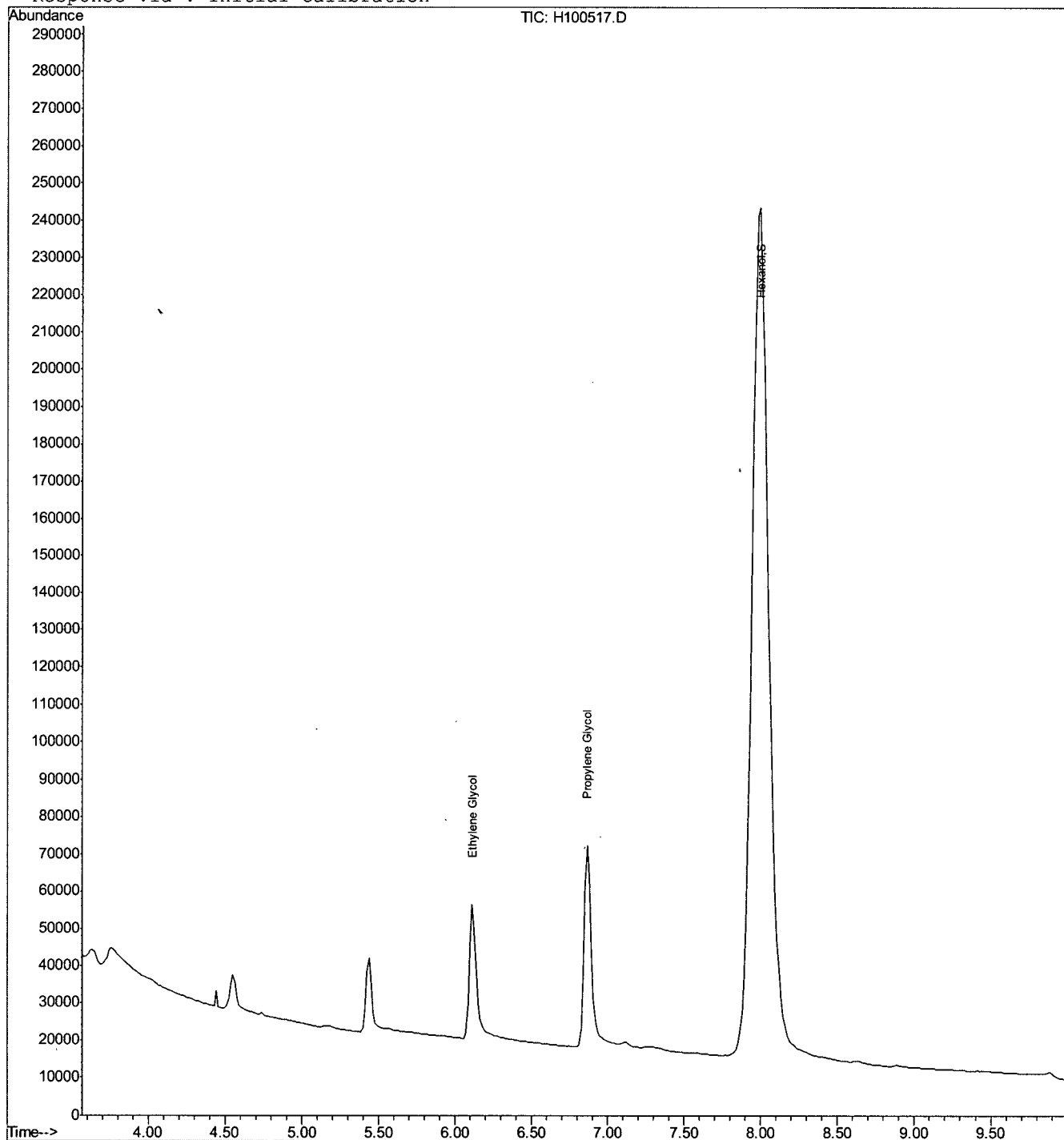
Quant Results File: M4362EPG.RES

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

Title : Ethylene Glycol Propylene Glycol

Last Update : Thu Oct 21 08:18:48 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4374\H100574.D Vial: 3
Acq On : 26 Oct 2010 5:18 pm Operator: kristis
Sample : bs Inst : MSH
Misc : ms3576,eh4374,5.0,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Nov 2 18:26 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)
Title : Ethylene Glycol Propylene Glycol
Last Update : Tue Nov 02 18:25:42 2010
Response via : Initial Calibration
DataAcq Meth : M4362EPG

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

System Monitoring Compounds						
3) Hexanol	8.04	56	3697652	36.28	ppm	-0.09
Spiked Amount	50.000		Recovery	=	72.56%	
Target Compounds						
1) Ethylene Glycol	6.51	31	825985	3.16	ppm	99
2) Propylene Glycol	7.21	45	1623502	5.72	ppm	98

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

H100574.D M4362EPG.M Tue Nov 02 18:26:49 2010 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100574.D

Vial: 3

Acq On : 26 Oct 2010 5:18 pm

Operator: kristis

Sample : bs

Inst : MSH

Misc : ms3576,eh4374,5.0,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 2 18:26 2010

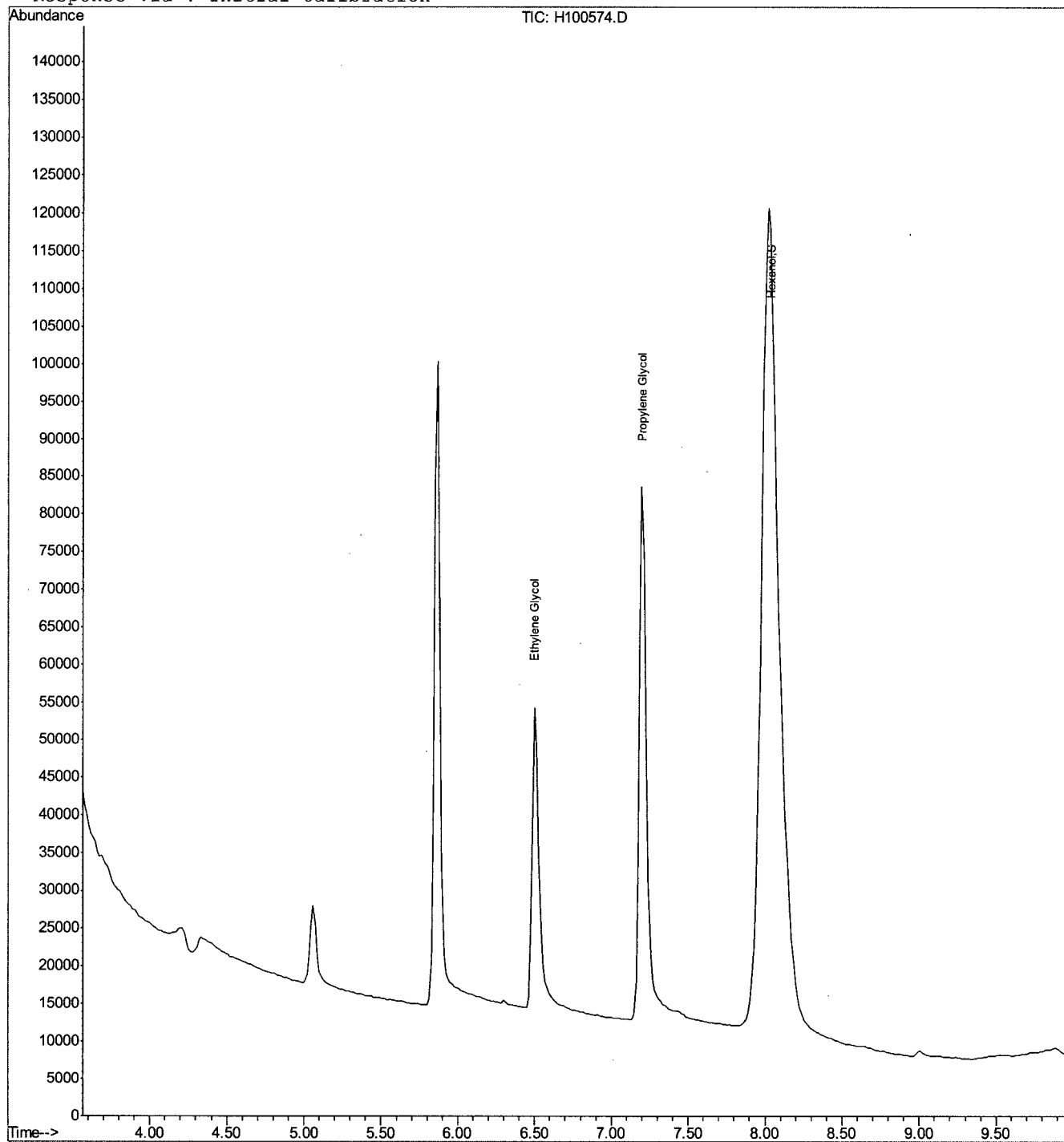
Quant Results File: M4362EPG.RES

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

Title : Ethylene Glycol Propylene Glycol

Last Update : Tue Nov 02 18:25:42 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4374\H100590.D Vial: 3
Acq On : 27 Oct 2010 1:53 pm Operator: kristis
Sample : bs2 Inst : MSH
Misc : ms3472,eh4375,5.0,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Nov 2 18:09 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)
Title : Ethylene Glycol Propylene Glycol
Last Update : Tue Nov 02 18:09:01 2010
Response via : Initial Calibration
DataAcq Meth : M4362EPG

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

System Monitoring Compounds						
3) Hexanol	7.97	56	6813721	66.85	ppm	0.00
Spiked Amount	50.000			Recovery	=	133.70%
Target Compounds						
1) Ethylene Glycol	5.91	31	754625	2.89	ppm	100
2) Propylene Glycol	6.67	45	1583669	5.58	ppm	98

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

H100590.D M4362EPG.M Tue Nov 02 18:09:13 2010 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100590.D

Vial: 3

Acq On : 27 Oct 2010 1:53 pm

Operator: kristis

Sample : bs2

Inst : MSH

Misc : ms3472,eh4375,5.0,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 2 18:09 2010

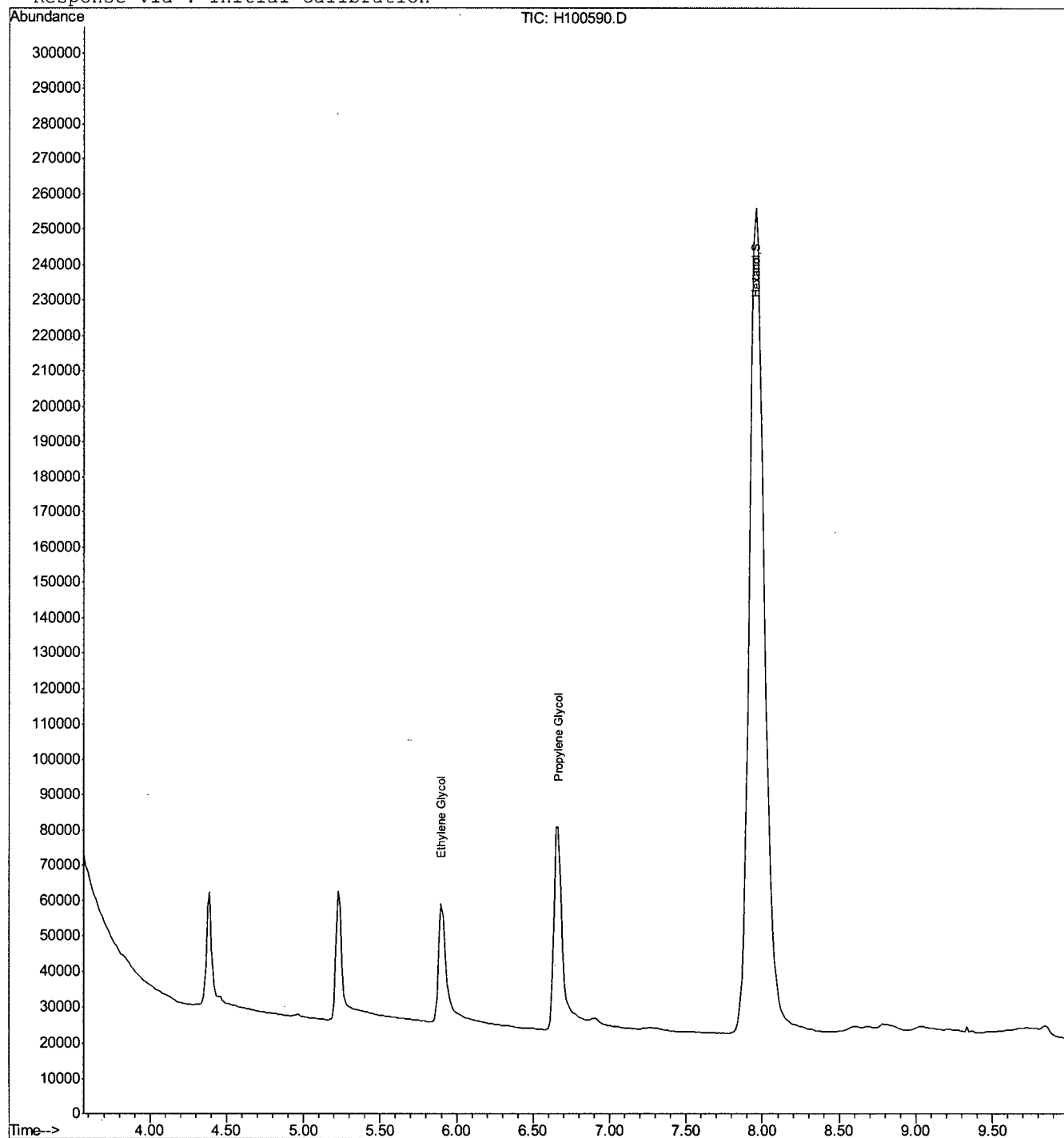
Quant Results File: M4362EPG.RES

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

Title : Ethylene Glycol Propylene Glycol

Last Update : Tue Nov 02 18:09:01 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : V108522.D
 Acq On : 21 Oct 2010 5:37 pm
 Operator : JIANHUAL
 Sample : BS
 Misc : MS3738,VV4578,5,,,,,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 18:01:53 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Thu Oct 21 17:19:02 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.44	65	101084	500.00	ug/L	-0.01
4) pentafluorobenzene	9.67	168	259785	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.61	114	407231	50.00	ug/L	0.00
93) chlorobenzene-d5	14.03	117	411334	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.65	152	241313	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.72	113	147055	49.32	ug/L	0.00
Spiked Amount	50.000	Range 67 - 127	Recovery	=	98.64%	
58) 1,2-dichloroethane-d4 (s)	10.16	65	160759	53.43	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	=	106.86%	
85) toluene-d8 (s)	12.34	98	560702	53.53	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	107.06%	
109) 4-bromofluorobenzene (s)	15.34	95	227818	48.90	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	97.80%	

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.56	59	95019	216.23	ug/L	100
3) 1,4-dioxane	11.36	88	44995	1434.47	ug/L #	98
13) chlorodifluoromethane	4.26	51	87237	39.10	ug/L	97
14) dichlorodifluoromethane	4.24	85	124690	41.55	ug/L	98
15) chloromethane	4.56	50	226405	46.45	ug/L	99
16) vinyl chloride	4.80	62	202149	51.52	ug/L	99
17) bromomethane	5.40	96	132884	46.56	ug/L	97
18) chloroethane	5.58	64	117902	48.94	ug/L	97
19) trichlorofluoromethane	6.03	101	192749	52.16	ug/L	99
20) Vinyl Bromide	5.91	106	143812	51.53	ug/L	97
21) ethyl ether	6.39	74	88729	54.88	ug/L	97
27) acrolein	6.64	56	323160	633.21	ug/L	96
28) freon 113	6.77	151	84915	45.92	ug/L	97
29) 1,1-dichloroethene	6.82	96	125012	50.41	ug/L	93
30) acetone	6.89	58	12948	54.18	ug/L #	55
31) iso-butyl alcohol	10.24	74	46723	489.00	ug/L	91
32) allyl chloride	7.32	78	27577	50.89	ug/L	99
33) acetonitrile	7.29	40	120596	596.96	ug/L	83
34) iodomethane	7.10	142	262958	51.97	ug/L	95
35) carbon disulfide	7.24	76	429637	55.54	ug/L	96
36) methylene chloride	7.50	84	160124	42.48	ug/L	94
37) methyl acetate	7.32	74	23256	51.83	ug/L #	83
38) methyl tert butyl ether	7.80	73	442875	49.84	ug/L	99
39) trans-1,2-dichloroethene	7.87	96	129678	45.43	ug/L	93
40) di-isopropyl ether	8.38	45	461885	44.89	ug/L	97
41) 2-butanone	9.15	72	17771	62.38	ug/L #	84
42) 1,1-dichloroethane	8.42	63	270305	55.66	ug/L	98
43) chloroprene	8.54	53	154927	45.47	ug/L	93
44) acrylonitrile	7.81	53	260729	299.90	ug/L	98
45) vinyl acetate	8.44	86	18686	47.06	ug/L	82
46) ethyl tert-butyl ether	8.85	59	450087	46.08	ug/L	99
47) ethyl acetate	9.15	45	20242	49.42	ug/L	81
48) 2,2-dichloropropane	9.15	77	202809	56.15	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : V108522.D
 Acq On : 21 Oct 2010 5:37 pm
 Operator : JIANHUAL
 Sample : BS
 Misc : MS3738,VV4578,5,,,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 18:01:53 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Thu Oct 21 17:19:02 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) cis-1,2-dichloroethene	9.16	96	183078	56.99	ug/L	100
50) propionitrile	9.22	54	210653	598.65	ug/L	96
51) methyl acrylate	9.26	85	19401	52.74	ug/L	94
52) methacrylonitrile	9.42	67	58662	53.71	ug/L	93
53) bromochloromethane	9.47	128	86193	52.49	ug/L	94
54) tetrahydrofuran	9.53	42	50061	56.32	ug/L	96
55) chloroform	9.52	83	263382	52.72	ug/L	99
56) tert-Butyl Formate	9.55	59	115335	52.86	ug/L #	97
59) 1,1,1-trichloroethane	9.79	97	205441	56.32	ug/L	96
60) Cyclohexane	9.86	84	177330	48.32	ug/L	73
61) Tert Amyl Alcohol	10.09	55	29898	313.92	ug/L #	68
63) methylcyclohexane	11.20	83	180558	43.64	ug/L	97
64) epichlorohydrin	11.93	57	68222	286.89	ug/L	99
65) n-butyl alcohol	10.73	56	232201	3001.59	ug/L	99
66) carbon tetrachloride	10.00	117	180044	59.28	ug/L	99
67) 1,1-dichloropropene	9.97	75	190954	60.19	ug/L	97
68) hexane	8.16	57	134704	46.87	ug/L	91
69) 2,2,4-Trimethylpentane	10.23	57	384936	43.10	ug/L #	98
70) benzene	10.24	78	594205	54.07	ug/L	97
71) tert-amyl methyl ether	10.25	73	434804	43.65	ug/L	99
72) heptane	10.40	57	78266	45.43	ug/L	97
73) isopropyl acetate	10.14	61	54832	52.16	ug/L #	88
74) 1,2-dichloroethane	10.25	62	197351	63.97	ug/L	89
75) trichloroethene	10.97	95	151929	54.47	ug/L	95
77) tert-Amyl Ethyl Ether	11.12	87	206098	43.41	ug/L	97
78) 2-nitropropane	12.16	46	7193	56.99	ug/L #	86
79) 2-chloroethyl vinyl ether	11.78	63	301610	251.02	ug/L	98
80) methyl methacrylate	11.25	100	39846	53.34	ug/L #	73
81) 1,2-dichloropropane	11.23	63	167702	55.16	ug/L	100
82) dibromomethane	11.41	93	97396	57.15	ug/L	92
83) bromodichloromethane	11.53	83	217276	57.64	ug/L	100
84) cis-1,3-dichloropropene	12.02	75	278828	57.74	ug/L	96
86) 4-methyl-2-pentanone	12.12	58	62239	56.67	ug/L	92
87) toluene	12.43	92	384054	48.28	ug/L	97
88) isoamyl alcohol	12.15	55	142629	1334.46	ug/L	95
89) trans-1,3-dichloropropene	12.64	75	255130	60.45	ug/L	95
90) ethyl methacrylate	12.63	69	199181	54.61	ug/L	96
91) 1,1,2-trichloroethane	12.87	83	126446	55.26	ug/L	95
92) 2-hexanone	13.09	58	59396	61.03	ug/L	96
94) tetrachloroethene	13.08	166	180543	41.37	ug/L	97
95) 1,3-dichloropropane	13.07	76	244486	54.62	ug/L	95
96) butyl acetate	13.15	73	32716	46.15	ug/L	78
97) 3,3-Dimethyl-1-Butanol	13.25	69	102270	540.11	ug/L	94
98) dibromochloromethane	13.37	129	179247	51.25	ug/L	98
99) 1,2-dibromoethane	13.54	107	155855	54.07	ug/L	100
100) chlorobenzene	14.06	112	464020	51.86	ug/L	96
101) 1,1,1,2-tetrachloroethane	14.12	131	174587	53.53	ug/L	98
102) ethylbenzene	14.12	91	721555	52.45	ug/L	98
103) m,p-xylene	14.24	106	583227	104.67	ug/L	96
104) o-xylene	14.71	106	300244	52.27	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : V108522.D
 Acq On : 21 Oct 2010 5:37 pm
 Operator : JIANHUAL
 Sample : BS
 Misc : MS3738,VV4578,5,,,,,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 21 18:01:53 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Thu Oct 21 17:19:02 2010
 Response via : Initial Calibration

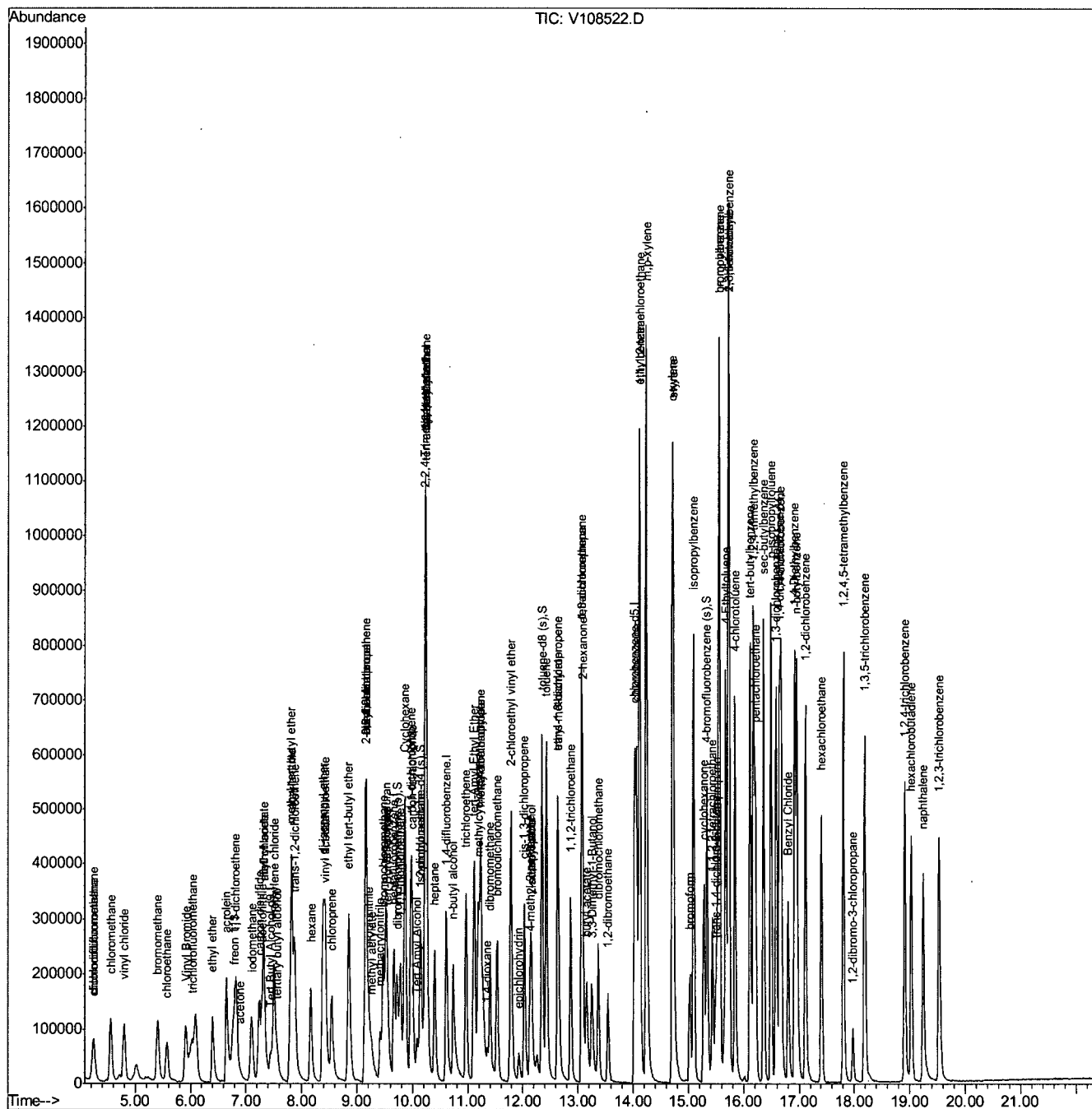
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) styrene	14.72	104	502767	50.07	ug/L	93
107) bromoform	15.02	173	138727	54.93	ug/L	98
108) cyclohexanone	15.28	55	219875	1260.23	ug/L	93
111) isopropylbenzene	15.09	105	739664	47.17	ug/L	98
112) bromobenzene	15.56	156	222197	45.45	ug/L	98
113) 1,1,2,2-tetrachloroethane	15.43	83	200968	49.20	ug/L	100
114) trans-1,4-dichloro-2-buten	15.49	53	47091	57.86	ug/L	96
115) 1,2,3-trichloropropane	15.52	110	51750	49.28	ug/L	99
116) n-propylbenzene	15.56	91	828340	46.37	ug/L	98
117) 4-Ethyltoluene	15.68	105	678551	45.55	ug/L	100
118) 2-chlorotoluene	15.73	126	201516	48.29	ug/L	99
119) 4-chlorotoluene	15.84	91	565555	46.60	ug/L	99
120) 1,3,5-trimethylbenzene	15.73	105	643757	47.48	ug/L	99
121) tert-butylbenzene	16.12	119	529606	48.66	ug/L	95
122) pentachloroethane	16.21	167	145761	60.49	ug/L	93
123) 1,2,4-trimethylbenzene	16.17	105	638292	46.91	ug/L	96
124) sec-butylbenzene	16.36	105	791402	49.24	ug/L	98
125) 1,3-dichlorobenzene	16.59	146	413216	51.03	ug/L	97
126) p-isopropyltoluene	16.50	119	676341	51.90	ug/L	98
128) 1,4-dichlorobenzene	16.67	146	431497	45.82	ug/L	99
129) 1,2-dichlorobenzene	17.12	146	401934	48.19	ug/L	99
130) Benzyl Chloride	16.81	91	336482	64.96	ug/L	98
132) 1,4-Diethylbenzene	16.92	119	364470	47.45	ug/L	98
133) n-butylbenzene	16.96	92	341961	54.89	ug/L	99
134) 1,2,4,5-tetramethylbenzene	17.80	119	567277	45.31	ug/L	99
135) 1,2-dibromo-3-chloropropan	17.97	75	34503	59.33	ug/L	97
136) 1,3,5-trichlorobenzene	18.19	180	319832	51.05	ug/L	97
137) 1,2,4-trichlorobenzene	18.91	180	275631	50.07	ug/L	99
138) hexachlorobutadiene	19.03	225	141557	45.45	ug/L	92
139) naphthalene	19.24	128	507202	51.01	ug/L	97
140) 1,2,3-trichlorobenzene	19.54	180	251872	52.08	ug/L	96
141) hexachloroethane	17.41	201	124253	46.92	ug/L	98

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\MSDCHEM\1\DATA\  
Data File  : V108522.D  
Acq On     : 21 Oct 2010    5:37 pm  
Operator   : JIANHUAL  
Sample     : BS  
Misc       : MS3738,VV4578,5,,,,,1  
ALS Vial   : 19    Sample Multiplier: 1
```

Quant Time: Oct 21 18:01:53 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Oct 21 17:19:02 2010
Response via : Initial Calibration



MVS4452.M Thu Oct 21 18:33:01 2010 RPT1

Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : V108523.D
 Acq On : 21 Oct 2010 6:08 pm
 Operator : JIANHUAL
 Sample : BSD
 Misc : MS3738,VV4578,5,,,,,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 21 18:31:11 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Thu Oct 21 17:19:02 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.44	65	108393	500.00	ug/L	-0.01
4) pentafluorobenzene	9.67	168	261047	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.61	114	406621	50.00	ug/L	0.00
93) chlorobenzene-d5	14.03	117	415767	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.65	152	242909	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.72	113	147943	49.38	ug/L	0.00
Spiked Amount	50.000	Range 67 - 127	Recovery	=	98.76%	
58) 1,2-dichloroethane-d4 (s)	10.15	65	156516	51.77	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	=	103.54%	
85) toluene-d8 (s)	12.34	98	560108	53.55	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	107.10%	
109) 4-bromofluorobenzene (s)	15.34	95	226191	48.03	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	96.06%	

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.55	59	99248	210.63	ug/L	100
3) 1,4-dioxane	11.36	88	47785	1420.69	ug/L #	95
13) chlorodifluoromethane	4.25	51	84255	37.58	ug/L	95
14) dichlorodifluoromethane	4.23	85	122941	40.76	ug/L	96
15) chloromethane	4.55	50	232704	47.52	ug/L	98
16) vinyl chloride	4.79	62	199181	50.51	ug/L	97
17) bromomethane	5.40	96	132523	46.21	ug/L	99
18) chloroethane	5.57	64	117256	48.44	ug/L	94
19) trichlorofluoromethane	6.02	101	188025	50.64	ug/L	94
20) Vinyl Bromide	5.90	106	143134	51.04	ug/L	99
21) ethyl ether	6.39	74	87625	53.94	ug/L	97
27) acrolein	6.64	56	329844	643.19	ug/L	99
28) freon 113	6.76	151	82587	44.44	ug/L	97
29) 1,1-dichloroethene	6.81	96	122673	49.23	ug/L	96
30) acetone	6.89	58	12662	52.72	ug/L	60
31) iso-butyl alcohol	10.24	74	48605	506.24	ug/L	81
32) allyl chloride	7.31	78	27147	49.85	ug/L	89
33) acetonitrile	7.28	40	115729	570.09	ug/L	89
34) iodomethane	7.09	142	261288	51.39	ug/L	96
35) carbon disulfide	7.23	76	419918	54.02	ug/L	96
36) methylene chloride	7.50	84	162011	42.77	ug/L	95
37) methyl acetate	7.32	74	24837	54.94	ug/L #	79
38) methyl tert butyl ether	7.80	73	454186	50.87	ug/L	99
39) trans-1,2-dichloroethene	7.87	96	127765	44.55	ug/L	97
40) di-isopropyl ether	8.38	45	464995	44.98	ug/L	96
41) 2-butanone	9.15	72	17451	60.96	ug/L #	93
42) 1,1-dichloroethane	8.42	63	270131	55.36	ug/L	99
43) chloroprene	8.54	53	150932	44.09	ug/L	94
44) acrylonitrile	7.81	53	269761	308.79	ug/L	96
45) vinyl acetate	8.43	86	18417	46.27	ug/L	84
46) ethyl tert-butyl ether	8.85	59	449590	45.81	ug/L	100
47) ethyl acetate	9.14	45	22254	54.07	ug/L #	30
48) 2,2-dichloropropane	9.15	77	198793	54.77	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : V108523.D
 Acq On : 21 Oct 2010 6:08 pm
 Operator : JIANHUAL
 Sample : BSD
 Misc : MS3738,VV4578,5,,,,,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 21 18:31:11 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Thu Oct 21 17:19:02 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) cis-1,2-dichloroethene	9.16	96	183871	56.96	ug/L	96
50) propionitrile	9.21	54	212521	601.04	ug/L	98
51) methyl acrylate	9.26	85	21255	57.50	ug/L	97
52) methacrylonitrile	9.42	67	59955	54.62	ug/L	90
53) bromochloromethane	9.47	128	86118	52.19	ug/L	95
54) tetrahydrofuran	9.53	42	48616	54.43	ug/L	98
55) chloroform	9.51	83	262337	52.26	ug/L	96
56) tert-Butyl Formate	9.55	59	121532	55.43	ug/L #	97
59) 1,1,1-trichloroethane	9.78	97	199773	54.50	ug/L	96
60) Cyclohexane	9.86	84	168564	45.71	ug/L	78
61) Tert Amyl Alcohol	10.08	55	29893	312.45	ug/L #	69
63) methylcyclohexane	11.19	83	172330	41.71	ug/L	98
64) epichlorohydrin	11.93	57	66887	281.70	ug/L	96
65) n-butyl alcohol	10.73	56	246013	3184.90	ug/L	97
66) carbon tetrachloride	9.99	117	175901	58.01	ug/L	92
67) 1,1-dichloropropene	9.97	75	186893	59.00	ug/L	94
68) hexane	8.16	57	128661	44.65	ug/L	98
69) 2,2,4-Trimethylpentane	10.23	57	366482	41.09	ug/L #	97
70) benzene	10.24	78	590904	53.85	ug/L	99
71) tert-amyl methyl ether	10.25	73	442541	44.50	ug/L	98
72) heptane	10.40	57	75076	43.64	ug/L	92
73) isopropyl acetate	10.14	61	54325	51.76	ug/L	91
74) 1,2-dichloroethane	10.24	62	196499	63.79	ug/L	93
75) trichloroethene	10.97	95	148977	53.50	ug/L	97
77) tert-Amyl Ethyl Ether	11.12	87	204329	43.11	ug/L	96
78) 2-nitropropane	12.14	46	7928	62.55	ug/L #	93
79) 2-chloroethyl vinyl ether	11.78	63	331177	276.04	ug/L	99
80) methyl methacrylate	11.25	100	42106	56.45	ug/L #	86
81) 1,2-dichloropropane	11.23	63	166177	54.74	ug/L	96
82) dibromomethane	11.40	93	99077	58.22	ug/L	90
83) bromodichloromethane	11.53	83	218753	58.12	ug/L	100
84) cis-1,3-dichloropropene	12.02	75	280795	58.24	ug/L	97
86) 4-methyl-2-pentanone	12.12	58	64335	58.67	ug/L	89
87) toluene	12.43	92	372933	46.95	ug/L	97
88) isoamyl alcohol	12.15	55	138971	1302.18	ug/L	92
89) trans-1,3-dichloropropene	12.64	75	258824	61.41	ug/L	96
90) ethyl methacrylate	12.63	69	206510	56.71	ug/L	99
91) 1,1,2-trichloroethane	12.87	83	126796	55.50	ug/L	97
92) 2-hexanone	13.09	58	61355	63.14	ug/L	94
94) tetrachloroethene	13.08	166	178213	40.40	ug/L	99
95) 1,3-dichloropropane	13.07	76	250272	55.32	ug/L	96
96) butyl acetate	13.15	73	33430	46.66	ug/L	92
97) 3,3-Dimethyl-1-Butanol	13.25	69	111773	584.00	ug/L	95
98) dibromochloromethane	13.37	129	184409	52.17	ug/L	97
99) 1,2-dibromoethane	13.54	107	158371	54.36	ug/L	96
100) chlorobenzene	14.06	112	461781	51.06	ug/L	98
101) 1,1,1,2-tetrachloroethane	14.12	131	173694	52.69	ug/L	96
102) ethylbenzene	14.12	91	706190	50.78	ug/L	99
103) m,p-xylene	14.24	106	577130	102.47	ug/L	100
104) o-xylene	14.71	106	296752	51.12	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : V108523.D
 Acq On : 21 Oct 2010 6:08 pm
 Operator : JIANHUAL
 Sample : BSD
 Misc : MS3738,VV4578,5,,,,,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 21 18:31:11 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Thu Oct 21 17:19:02 2010
 Response via : Initial Calibration

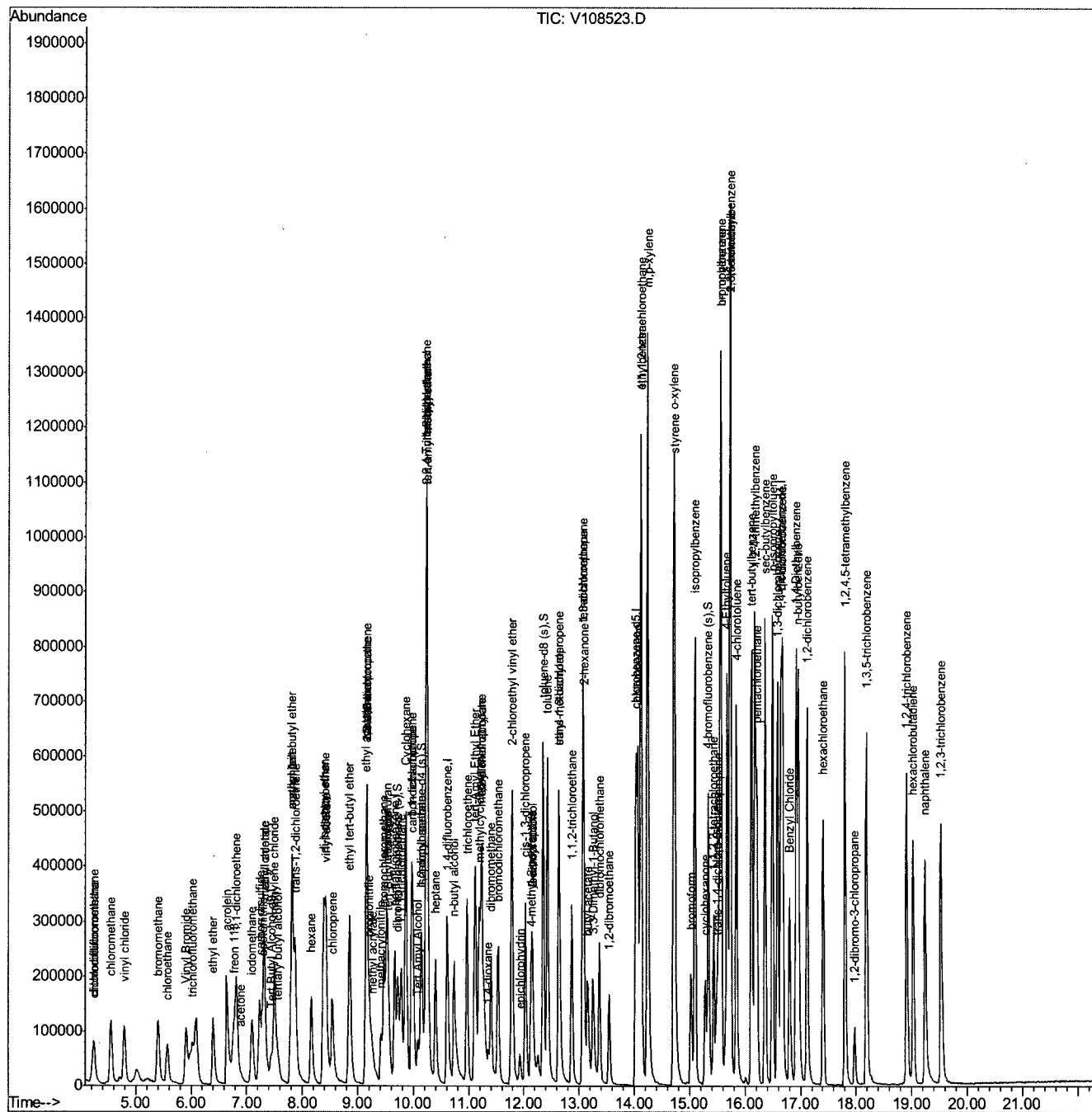
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) styrene	14.73	104	508557	50.11	ug/L	99
107) bromoform	15.03	173	142863	55.97	ug/L	99
108) cyclohexanone	15.28	55	122638	695.42	ug/L	93
111) isopropylbenzene	15.09	105	731180	46.32	ug/L	98
112) bromobenzene	15.56	156	229777	46.69	ug/L	90
113) 1,1,2,2-tetrachloroethane	15.43	83	216545	52.67	ug/L	96
114) trans-1,4-dichloro-2-buten	15.49	53	50413	61.54	ug/L	92
115) 1,2,3-trichloropropane	15.52	110	54191	51.26	ug/L #	85
116) n-propylbenzene	15.56	91	820299	45.62	ug/L	98
117) 4-Ethyltoluene	15.67	105	668913	44.60	ug/L	99
118) 2-chlorotoluene	15.73	126	201808	48.04	ug/L	99
119) 4-chlorotoluene	15.84	91	566414	46.36	ug/L	99
120) 1,3,5-trimethylbenzene	15.73	105	635752	46.58	ug/L	98
121) tert-butylbenzene	16.11	119	512769	46.81	ug/L	95
122) pentachloroethane	16.21	167	148429	61.20	ug/L	94
123) 1,2,4-trimethylbenzene	16.18	105	637108	46.51	ug/L	99
124) sec-butylbenzene	16.36	105	772248	47.74	ug/L	98
125) 1,3-dichlorobenzene	16.59	146	416444	51.09	ug/L	98
126) p-isopropyltoluene	16.49	119	665383	50.72	ug/L	99
128) 1,4-dichlorobenzene	16.67	146	432187	45.59	ug/L	97
129) 1,2-dichlorobenzene	17.12	146	409475	48.77	ug/L	98
130) Benzyl Chloride	16.81	91	349514	67.03	ug/L	96
132) 1,4-Diethylbenzene	16.92	119	365329	47.25	ug/L	96
133) n-butylbenzene	16.96	92	339205	54.09	ug/L	97
134) 1,2,4,5-tetramethylbenzene	17.80	119	576158	45.72	ug/L	98
135) 1,2-dibromo-3-chloropropan	17.97	75	35223	60.18	ug/L	93
136) 1,3,5-trichlorobenzene	18.19	180	322481	51.14	ug/L	98
137) 1,2,4-trichlorobenzene	18.91	180	283199	51.11	ug/L	98
138) hexachlorobutadiene	19.03	225	142145	45.34	ug/L	95
139) naphthalene	19.24	128	546449	54.59	ug/L	98
140) 1,2,3-trichlorobenzene	19.54	180	265787	54.60	ug/L	96
141) hexachloroethane	17.41	201	125815	47.20	ug/L	99

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\MSDCHEM\1\DATA\  
Data File  : V108523.D  
Acq On     : 21 Oct 2010      6:08 pm  
Operator   : JIANHUAL  
Sample     : BSD  
Misc       : MS3738,VV4578,5,,,,,1  
ALS Vial   : 20      Sample Multiplier: 1
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Quant Time: Oct 21 18:31:11 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Oct 21 17:19:02 2010
Response via : Initial Calibration



MVS4452.M Thu Oct 21 18:33:04 2010 RPT1

Page: 4

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108349.D Vial: 5
 Acq On : 26 Oct 2010 2:02 pm Operator: JUNTAEP
 Sample : bs Inst : MSX
 Misc : MS3790,vx4579,5.0,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 14:26:16 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 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	55100	500.00	ug/L	0.00
6) pentafluorobenzene	10.05	168	144373	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.21	114	202723	50.00	ug/L	-0.01
92) chlorobenzene-d5	15.43	117	206826	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	99946	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.10	113	59463	48.19	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	96.38%
54) 1,2-dichloroethane-d4 (s)	10.63	65	70625	51.95	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	103.90%
84) toluene-d8 (s)	13.40	98	241975	54.75	ug/L	-0.01
Spiked Amount	50.000	Range	74 - 129	Recovery	=	109.50%
109) 4-bromofluorobenzene (s)	16.92	95	107922	55.00	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	110.00%

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.50	59	33820	256.32	ug/L	90
4) acrolein	6.40	56	100545	466.12	ug/L #	97
5) 1,4-dioxane	12.17	88	12923	1128.72	ug/L #	98
12) chlorodifluoromethane	3.80	51	55579	41.23	ug/L	88
13) dichlorodifluoromethane	3.78	85	122186	61.38	ug/L	99
16) chloromethane	4.11	50	106348	38.65	ug/L	97
17) vinyl chloride	4.37	62	87121	40.93	ug/L	97
19) bromomethane	5.03	94	49628	37.97	ug/L	98
20) chloroethane	5.22	64	50099	44.25	ug/L	95
21) vinyl bromide	5.57	106	61491	46.65	ug/L #	96
22) trichlorofluoromethane	5.66	101	124912	56.52	ug/L	93
23) ethyl ether	6.12	74	33536	49.68	ug/L	86
27) 1,1-dichloroethene	6.58	96	57713	45.30	ug/L	95
28) acetone	6.64	58	4229	41.72	ug/L	90
29) allyl chloride	7.16	76	37410	47.09	ug/L #	86
30) acetonitrile	7.15	40	48315	438.37	ug/L #	75
31) iodomethane	6.88	142	121635	51.89	ug/L	96
32) iso-butyl alcohol	10.37	74	6975	443.82	ug/L	100
33) carbon disulfide	7.00	76	222522	44.24	ug/L	95
34) methylene chloride	7.39	84	67183	45.23	ug/L	98
35) methyl acetate	7.15	74	7467	43.42	ug/L #	84
36) methyl tert butyl ether	7.74	73	347756	93.25	ug/L	97
37) trans-1,2-dichloroethene	7.80	96	59573	42.03	ug/L	99
38) di-isopropyl ether	8.44	45	210433	43.02	ug/L	84
39) 2-butanone	9.36	72	6374	50.81	ug/L	56
40) 1,1-dichloroethane	8.47	63	117103	45.79	ug/L	97
41) chloroprene	8.59	53	91841	51.12	ug/L	97
42) acrylonitrile	7.77	53	84535	222.87	ug/L	99
43) vinyl acetate	8.47	86	8857	67.25	ug/L	43
44) ethyl tert-butyl ether	9.01	59	213986	49.48	ug/L	99
45) ethyl acetate	9.37	70	6542	53.79	ug/L	45
46) 2,2-dichloropropane	9.37	77	100627	46.17	ug/L	95
47) cis-1,2-dichloroethene	9.38	96	67104	44.29	ug/L	99

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

X108349.D MX4516.M Wed Oct 27 11:54:52 2010 MSX

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108349.D Vial: 5
 Acq On : 26 Oct 2010 2:02 pm Operator: JUNTAEP
 Sample : bs Inst : MSX
 Misc : MS3790,vx4579,5.0,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 14:26:16 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 Oct 25 16:35:25 2010
 Response via : Initial Calibration
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) propionitrile	9.49	54	71484	473.39	ug/L	95
49) tert-Butyl Formate	9.88	59	56997	53.07	ug/L	96
50) bromochloromethane	9.77	128	33152	52.09	ug/L	94
51) tetrahydrofuran	9.81	42	19123	45.06	ug/L	95
52) chloroform	9.86	83	115983	49.57	ug/L	98
55) freon 113	6.55	151	46639	46.76	ug/L	96
56) methacrylonitrile	9.71	41	35201	44.81	ug/L	93
57) 1,1,1-trichloroethane	10.14	97	106568	54.04	ug/L	97
58) cyclohexane	10.22	84	90407	46.78	ug/L	98
60) iso-octane	10.70	57	216467	41.33	ug/L	92
63) epichlorohydrin	12.75	57	23117	253.95	ug/L	78
64) n-butyl alcohol	11.42	56	83648	2633.94	ug/L	94
65) carbon tetrachloride	10.40	117	96609	61.03	ug/L	98
66) 1,1-dichloropropene	10.37	75	87334	50.96	ug/L	100
67) hexane	8.14	86	8306	37.42	ug/L #	86
68) benzene	10.71	78	232775	46.88	ug/L	99
69) tert-amyl methyl ether	10.76	73	165578	48.77	ug/L	97
70) heptane	10.94	57	39717	40.52	ug/L	96
71) isopropyl acetate	10.65	43	148941	52.38	ug/L	99
72) 1,2-dichloroethane	10.75	62	82850	60.38	ug/L	97
73) trichloroethene	11.65	130	69460	54.83	ug/L	97
76) 2-nitropropane	12.72	46	2492	145.38	ug/L #	1
77) 2-chloroethyl vinyl ether	12.75	63	118228	261.75	ug/L	98
78) methyl methacrylate	12.04	69	35811	52.76	ug/L	96
79) 1,2-dichloropropane	12.00	63	66605	49.80	ug/L	100
80) dibromomethane	12.22	93	40067	60.23	ug/L	97
81) methylcyclohexane	11.92	83	97541	46.91	ug/L	97
82) bromodichloromethane	12.41	83	95218	57.40	ug/L	98
83) cis-1,3-dichloropropene	13.02	75	118347	53.73	ug/L	91
85) 4-methyl-2-pentanone	13.17	58	23804	57.33	ug/L	98
86) toluene	13.50	92	162456	49.64	ug/L	96
87) 3-methyl-1-butanol	13.22	55	55568	1057.91	ug/L	96
88) trans-1,3-dichloropropene	13.79	75	105438	55.24	ug/L	98
89) ethyl methacrylate	13.80	69	74867	52.12	ug/L	98
90) 1,1,2-trichloroethane	14.08	83	49304	56.12	ug/L	94
91) 2-hexanone	14.33	58	20458	52.66	ug/L	99
93) 3,3-Dimethyl-1-butanol	14.58	57	57444	481.04	ug/L	97
94) tetrachloroethene	14.27	164	63694	52.57	ug/L	98
95) 1,3-dichloropropane	14.32	76	90108	47.69	ug/L	96
96) butyl acetate	14.44	56	40068	47.43	ug/L	98
97) dibromochloromethane	14.66	129	74370	54.33	ug/L	99
98) 1,2-dibromoethane	14.85	107	61423	53.96	ug/L	92
100) chlorobenzene	15.47	112	184617	50.47	ug/L	100
101) 1,1,1,2-tetrachloroethane	15.56	131	67638	52.50	ug/L	97
102) ethylbenzene	15.55	91	302646	46.81	ug/L	98
103) m,p-xylene	15.69	106	231960	92.66	ug/L	97
104) o-xylene	16.24	106	127243	48.66	ug/L	93
105) styrene	16.26	104	200217	47.78	ug/L	97
106) bromoform	16.59	173	55055	61.47	ug/L	99

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

X108349.D MX4516.M Wed Oct 27 11:54:52 2010 MSX

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108349.D Vial: 5
 Acq On : 26 Oct 2010 2:02 pm Operator: JUNTAEP
 Sample : bs Inst : MSX
 Misc : MS3790,vx4579,5.0,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 14:26:16 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 Oct 25 16:35:25 2010
 Response via : Initial Calibration
 DataAcq Meth : MX4516

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
108) isopropylbenzene	16.68	105	324605	47.16 ug/L	100
110) bromobenzene	17.14	156	84148	50.92 ug/L	98
111) 1,1,2,2-tetrachloroethane	17.07	83	78443	51.36 ug/L	98
112) trans-1,4-dichloro-2-buten	17.12	53	24490	57.02 ug/L	94
113) 1,2,3-trichloropropane	17.15	110	17331	52.72 ug/L #	84
114) n-propylbenzene	17.16	91	362323	45.23 ug/L	97
116) 2-chlorotoluene	17.32	126	79865	49.29 ug/L	98
117) 4-chlorotoluene	17.44	91	251394	49.39 ug/L	98
118) 1,3,5-trimethylbenzene	17.34	105	261232	47.12 ug/L	98
119) tert-butylbenzene	17.72	119	242495	49.48 ug/L	94
120) pentachloroethane	17.81	167	51397	56.22 ug/L	95
121) 1,2,4-trimethylbenzene	17.77	105	275172	47.70 ug/L	99
123) sec-butylbenzene	17.95	105	359334	48.96 ug/L	98
124) 1,3-dichlorobenzene	18.14	146	158656	50.19 ug/L	98
125) p-isopropyltoluene	18.08	119	298356	49.56 ug/L	97
126) 1,4-dichlorobenzene	18.23	146	152908	50.97 ug/L	99
127) 1,2-dichlorobenzene	18.62	146	152788	52.95 ug/L	99
128) benzyl chloride	18.35	91	142762	47.62 ug/L	98
130) n-butylbenzene	18.49	92	163586	50.74 ug/L	100
132) 1,2-dibromo-3-chloropropan	19.37	75	16083	58.43 ug/L	87
133) 1,3,5-trichlorobenzene	19.54	180	131210	55.49 ug/L	98
134) hexachlorobutadiene	20.25	225	67283	58.77 ug/L	97
135) naphthalene	20.43	128	200188	59.82 ug/L	99
136) 1,2,4-trichlorobenzene	20.15	180	112681	60.87 ug/L	98
137) 1,2,3-trichlorobenzene	20.66	180	96740	63.73 ug/L	99
138) hexachloroethane	18.86	201	59760	57.33 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108349.D MX4516.M Wed Oct 27 11:54:52 2010 MSX

Quantitation Report (QT Reviewed)

Vial: 5

Operator: JUNTAEP

Inst : MSX

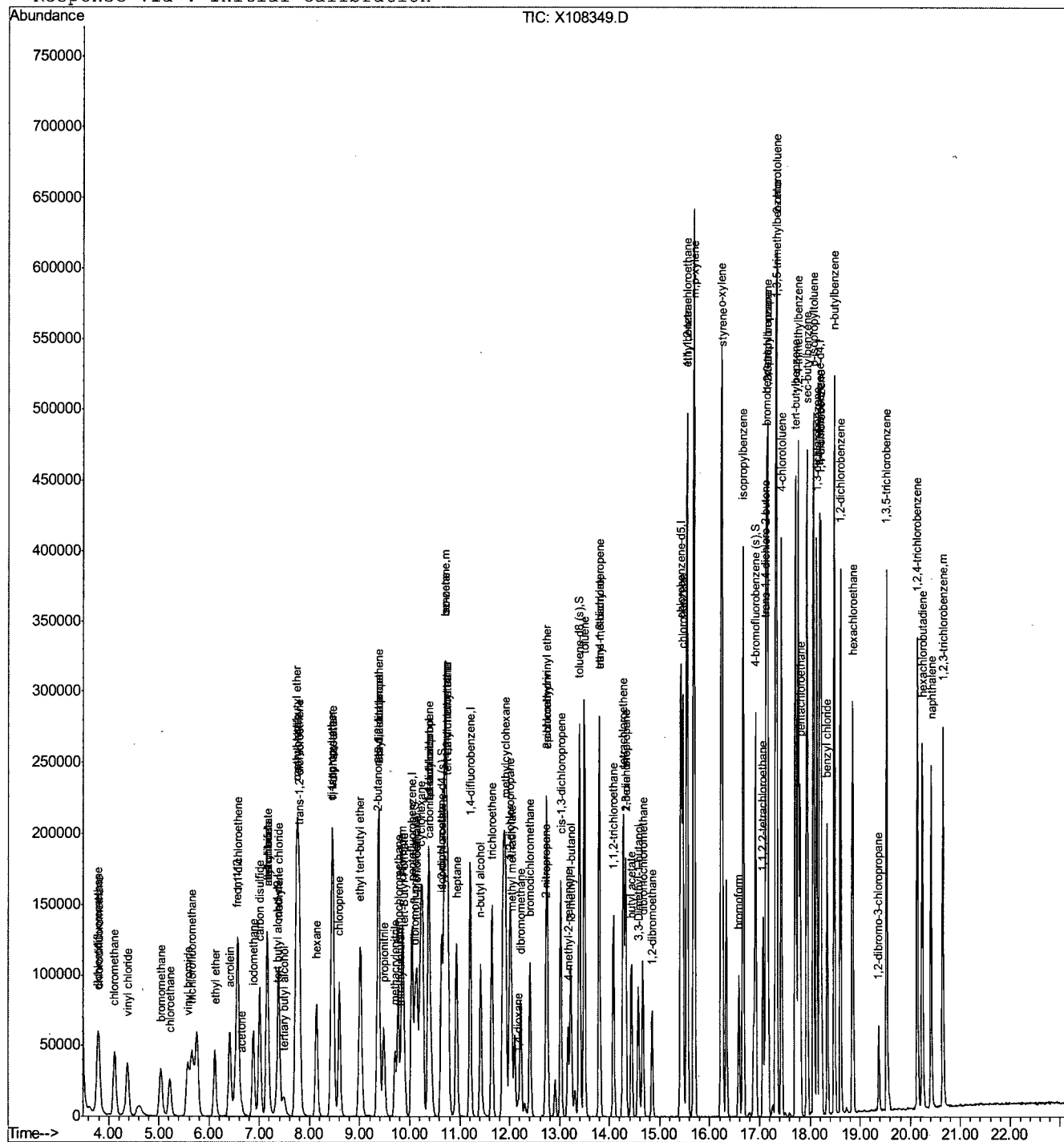
Multiplr: 1.00

Quant Results File: MX4516.RES

Quant Results File: MX4516.RES

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

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDDATA\VX4581-4582\X108394.D Vial: 5
 Acq On : 27 Oct 2010 4:10 pm Operator: JUNTAEP
 Sample : BS2 Inst : MSX
 Misc : MS3790,vx4579,5.0,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 27 16:33:21 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	65874	500.00	ug/L	-0.01
6) pentafluorobenzene	10.05	168	138963	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	201066	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	206238	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	102249	50.00	ug/L	0.00

System Monitoring Compounds						
53) dibromofluoromethane (s)	10.11	113	62571	52.68	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 127	Recovery	=	105.36%
54) 1,2-dichloroethane-d4 (s)	10.63	65	71908	54.95	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	109.90%
84) toluene-d8 (s)	13.40	98	239599	54.66	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	109.32%
109) 4-bromofluorobenzene (s)	16.92	95	103056	51.33	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	102.66%

Target Compounds				Qvalue		
2) tertiary butyl alcohol	7.48	59	39814	252.40	ug/L	96
4) acrolein	6.41	56	103629	401.84	ug/L #	100
5) 1,4-dioxane	12.17	88	15229	1114.22	ug/L #	98
12) chlorodifluoromethane	3.81	51	53481	41.22	ug/L	96
13) dichlorodifluoromethane	3.79	85	100893	52.66	ug/L	100
16) chloromethane	4.12	50	105240	39.74	ug/L	98
17) vinyl chloride	4.38	62	79300	38.71	ug/L	97
19) bromomethane	5.04	94	46163	36.70	ug/L	94
20) chloroethane	5.22	64	50642	46.48	ug/L	96
21) vinyl bromide	5.59	106	55146	43.46	ug/L #	96
22) trichlorofluoromethane	5.66	101	115172	54.14	ug/L	97
23) ethyl ether	6.12	74	35465	54.59	ug/L	95
27) 1,1-dichloroethene	6.58	96	53371	43.52	ug/L	96
28) acetone	6.65	58	5848m	60.94	ug/L	
29) allyl chloride	7.16	76	36406	47.61	ug/L #	89
30) acetonitrile	7.15	40	50965	480.42	ug/L	92
31) iodomethane	6.88	142	114033	50.54	ug/L	93
32) iso-butyl alcohol	10.38	74	6423	426.08	ug/L	100
33) carbon disulfide	7.01	76	210539	43.49	ug/L	95
34) methylene chloride	7.39	84	66647	46.62	ug/L	97
35) methyl acetate	7.15	74	8205	49.57	ug/L	94
36) methyl tert butyl ether	7.75	73	364364	101.51	ug/L	99
37) trans-1,2-dichloroethene	7.81	96	55150	40.43	ug/L	99
38) di-isopropyl ether	8.45	45	233632	49.62	ug/L	83
39) 2-butanone	9.34	72	7737	64.39	ug/L	42
40) 1,1-dichloroethane	8.48	63	115414	46.89	ug/L	99
41) chloroprene	8.60	53	93200	53.90	ug/L	98
42) acrylonitrile	7.77	53	95138	260.59	ug/L	97
43) vinyl acetate	8.47	86	9235	72.85	ug/L	89
44) ethyl tert-butyl ether	9.02	59	226506	54.42	ug/L	99
45) ethyl acetate	9.37	70	7154	61.11	ug/L #	15
46) 2,2-dichloropropane	9.38	77	98083	46.76	ug/L	98
47) cis-1,2-dichloroethene	9.39	96	64988	44.56	ug/L	98

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

X108394.D MX4516.M Tue Nov 02 14:29:21 2010 MSX

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDDATA\VX4581-4582\X108394.D Vial: 5
 Acq On : 27 Oct 2010 4:10 pm Operator: JUNTAEP
 Sample : BS2 Inst : MSX
 Misc : MS3790,vx4579,5.0,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 27 16:33:21 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	9.49	54	79977	550.25	ug/L	89
49) tert-Butyl Formate	9.89	59	55494	53.69	ug/L #	85
50) bromochloromethane	9.78	128	32270	52.68	ug/L	100
51) tetrahydrofuran	9.82	42	22224	54.41	ug/L	99
52) chloroform	9.86	83	111596	49.55	ug/L	98
55) freon 113	6.54	151	46536	48.47	ug/L	91
56) methacrylonitrile	9.71	41	38364	50.73	ug/L	98
57) 1,1,1-trichloroethane	10.15	97	95488	50.31	ug/L	100
58) cyclohexane	10.23	84	84205	45.26	ug/L	97
60) iso-octane	10.71	57	244503	48.50	ug/L	95
63) epichlorohydrin	12.75	57	26135	289.47	ug/L	85
64) n-butyl alcohol	11.42	56	98950	3141.45	ug/L	93
65) carbon tetrachloride	10.40	117	84066	53.54	ug/L	99
66) 1,1-dichloropropene	10.38	75	81377	47.87	ug/L	99
67) hexane	8.15	86	9775	44.40	ug/L #	88
68) benzene	10.71	78	223882	45.46	ug/L	99
69) tert-amyl methyl ether	10.77	73	177034	52.57	ug/L	98
70) heptane	10.94	57	45548	46.85	ug/L	98
71) isopropyl acetate	10.65	43	160820	57.02	ug/L	98
72) 1,2-dichloroethane	10.75	62	80244	58.97	ug/L	99
73) trichloroethene	11.65	130	62151	49.46	ug/L	99
76) 2-nitropropane	12.72	46	2160	127.76	ug/L #	1
77) 2-chloroethyl vinyl ether	12.75	63	131963	294.57	ug/L	99
78) methyl methacrylate	12.04	69	38007	56.45	ug/L	92
79) 1,2-dichloropropane	12.01	63	66600	50.21	ug/L	99
80) dibromomethane	12.22	93	40184	60.91	ug/L	97
81) methylcyclohexane	11.92	83	102047	49.48	ug/L	98
82) bromodichloromethane	12.41	83	91909	55.87	ug/L	100
83) cis-1,3-dichloropropene	13.03	75	117857	53.95	ug/L	95
85) 4-methyl-2-pentanone	13.17	58	25669	62.33	ug/L	100
86) toluene	13.50	92	150537	46.37	ug/L	99
87) 3-methyl-1-butanol	13.22	55	64763	1243.13	ug/L	96
88) trans-1,3-dichloropropene	13.79	75	103807	54.83	ug/L	98
89) ethyl methacrylate	13.80	69	76704	53.83	ug/L	99
90) 1,1,2-trichloroethane	14.08	83	48602	55.77	ug/L	98
91) 2-hexanone	14.33	58	23025	59.75	ug/L	99
93) 3,3-Dimethyl-1-butanol	14.58	57	67098	563.48	ug/L	99
94) tetrachloroethene	14.28	164	55643	46.05	ug/L	97
95) 1,3-dichloropropane	14.32	76	92032	48.84	ug/L	96
96) butyl acetate	14.44	56	43026	51.07	ug/L	99
97) dibromochloromethane	14.67	129	71560	52.42	ug/L	95
98) 1,2-dibromoethane	14.85	107	59789	52.68	ug/L	97
100) chlorobenzene	15.47	112	170275	46.68	ug/L	98
101) 1,1,1,2-tetrachloroethane	15.56	131	64039	49.84	ug/L	98
102) ethylbenzene	15.55	91	275717	42.77	ug/L	99
103) m,p-xylene	15.69	106	210501	84.33	ug/L	99
104) o-xylene	16.24	106	116671	44.74	ug/L	99
105) styrene	16.26	104	185527	44.40	ug/L	96
106) bromoform	16.59	173	52379	58.65	ug/L	97

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

X108394.D MX4516.M Tue Nov 02 14:29:22 2010 MSX

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDDATA\VX4581-4582\X108394.D Vial: 5
 Acq On : 27 Oct 2010 4:10 pm Operator: JUNTAEP
 Sample : BS2 Inst : MSX
 Misc : MS3790,vx4579,5.0,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 27 16:33:21 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

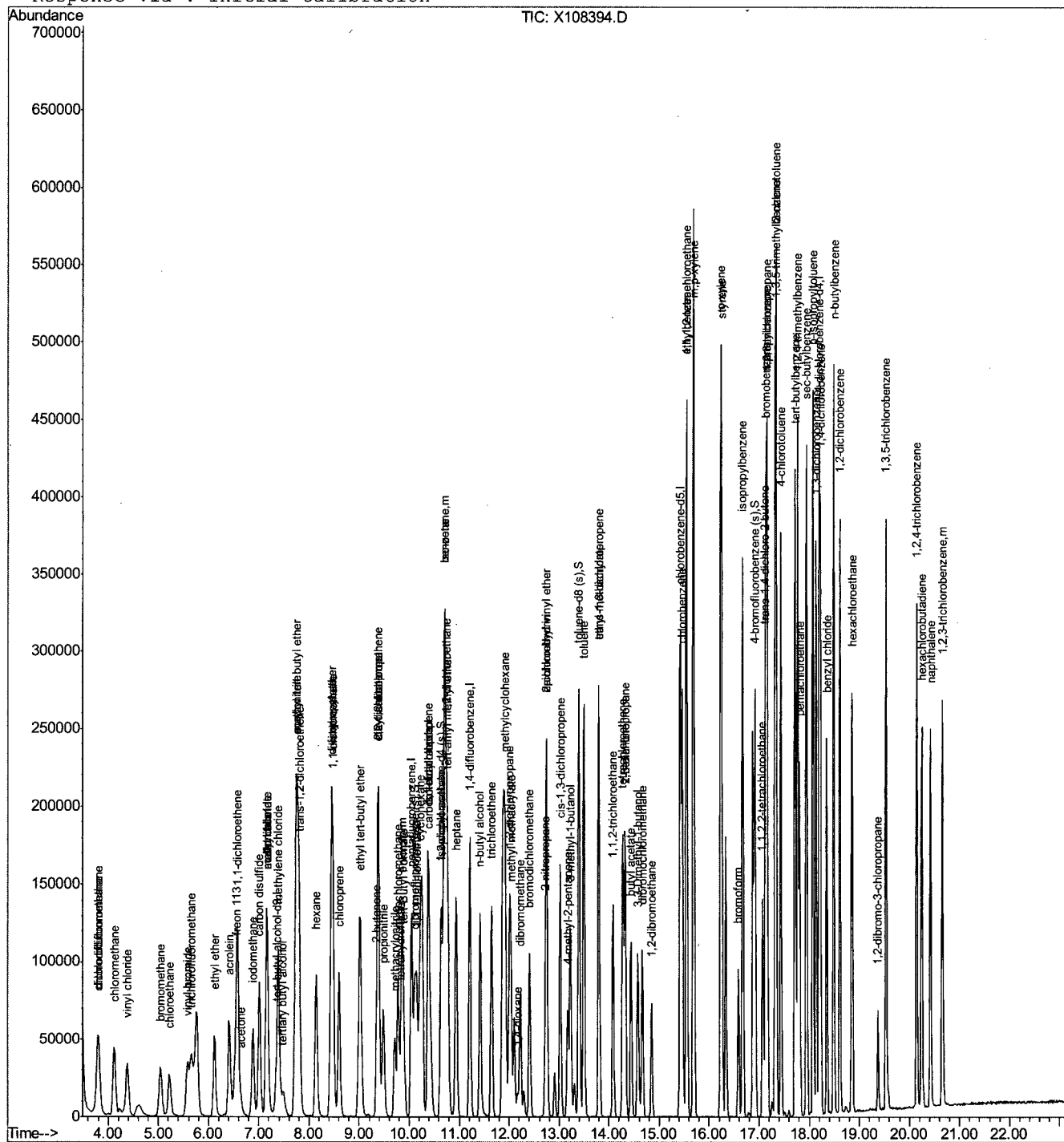
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
108) isopropylbenzene	16.68	105	290755	41.29	ug/L	99
110) bromobenzene	17.14	156	78181	46.24	ug/L	99
111) 1,1,2,2-tetrachloroethane	17.07	83	80214	51.34	ug/L	98
112) trans-1,4-dichloro-2-buten	17.12	53	24856	56.57	ug/L	88
113) 1,2,3-trichloropropane	17.15	110	17927	53.31	ug/L #	45
114) n-propylbenzene	17.16	91	328199	40.05	ug/L	98
116) 2-chlorotoluene	17.32	126	73494	44.34	ug/L	97
117) 4-chlorotoluene	17.44	91	230193	44.21	ug/L	98
118) 1,3,5-trimethylbenzene	17.34	105	240257	42.36	ug/L	99
119) tert-butylbenzene	17.72	119	219284	43.73	ug/L	93
120) pentachloroethane	17.81	167	49929	53.38	ug/L	98
121) 1,2,4-trimethylbenzene	17.77	105	260941	44.21	ug/L	100
123) sec-butylbenzene	17.95	105	330723	44.04	ug/L	99
124) 1,3-dichlorobenzene	18.14	146	150437	46.52	ug/L	98
125) p-isopropyltoluene	18.08	119	275169	44.68	ug/L	96
126) 1,4-dichlorobenzene	18.23	146	145434	47.39	ug/L	99
127) 1,2-dichlorobenzene	18.62	146	147343	49.91	ug/L	99
128) benzyl chloride	18.35	91	173479	56.56	ug/L	99
130) n-butylbenzene	18.49	92	154550	46.86	ug/L	98
132) 1,2-dibromo-3-chloropropan	19.37	75	17476	62.06	ug/L	90
133) 1,3,5-trichlorobenzene	19.54	180	128125	52.97	ug/L	99
134) hexachlorobutadiene	20.25	225	64391	54.98	ug/L	99
135) naphthalene	20.43	128	202869	59.26	ug/L	98
136) 1,2,4-trichlorobenzene	20.15	180	109449	57.79	ug/L	97
137) 1,2,3-trichlorobenzene	20.66	180	93395	60.14	ug/L	98
138) hexachloroethane	18.86	201	55068	51.64	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108394.D MX4516.M Tue Nov 02 14:29:22 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\OLDDATA\VX4581-4582\X108394.D Vial: 5
Acq On : 27 Oct 2010 4:10 pm Operator: JUNTAEP
Sample : BS2 Inst : MSX
Misc : MS3790,vx4579,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Nov 2 14:29 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



Manual Integration Approval Summary

Page 1 of 1

Sample Number: VX4579-BS2 **Method:** SW846 8260B
Lab FileID: X108394.D **Analyst approved:** 11/02/10 14:28 Dong, Mei
Injection Time: 10/27/10 16:10 **Supervisor approved:** 11/02/10 21:48 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetone	67-64-1		6.65	Missed peak

6.3.7.1

6

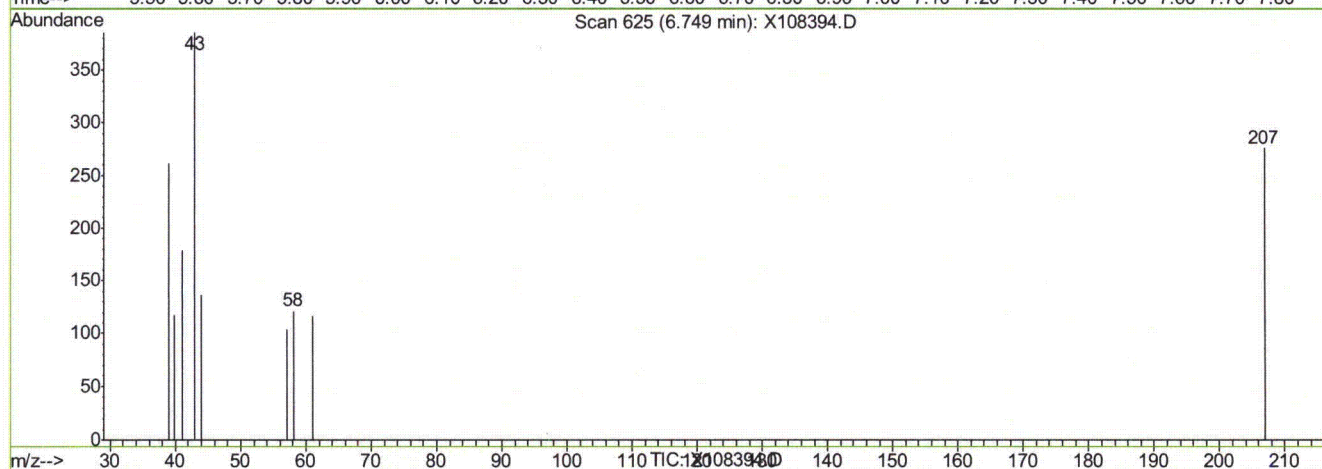
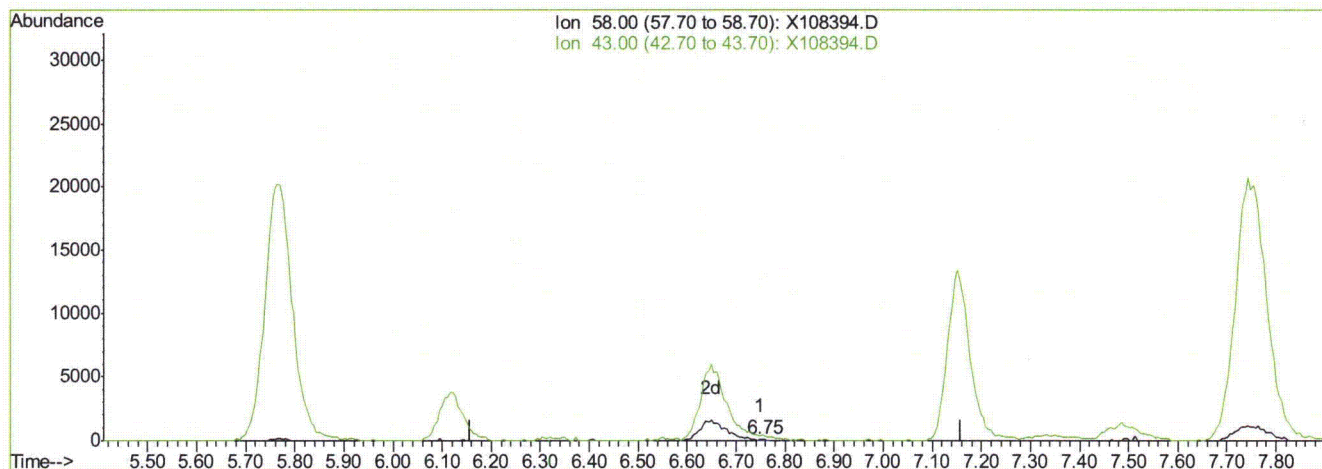
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLDDATA\VX4581-4582\X108394.D Vial: 5
Acq On : 27 Oct 2010 4:10 pm Operator: JUNTAEP
Sample : BS2 Inst : MSX
Misc : MS3790,vx4579,5.0,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 16:33 2010 Quant Results File: temp.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 : Multiple Level Calibration

6.3.7.2

6



(28) acetone

6.75min -1.12ug/L

response 110

Ion	Exp%	Act%
58.00	100	100
43.00	309.80	318.18
0.00	0.00	0.00
0.00	0.00	0.00

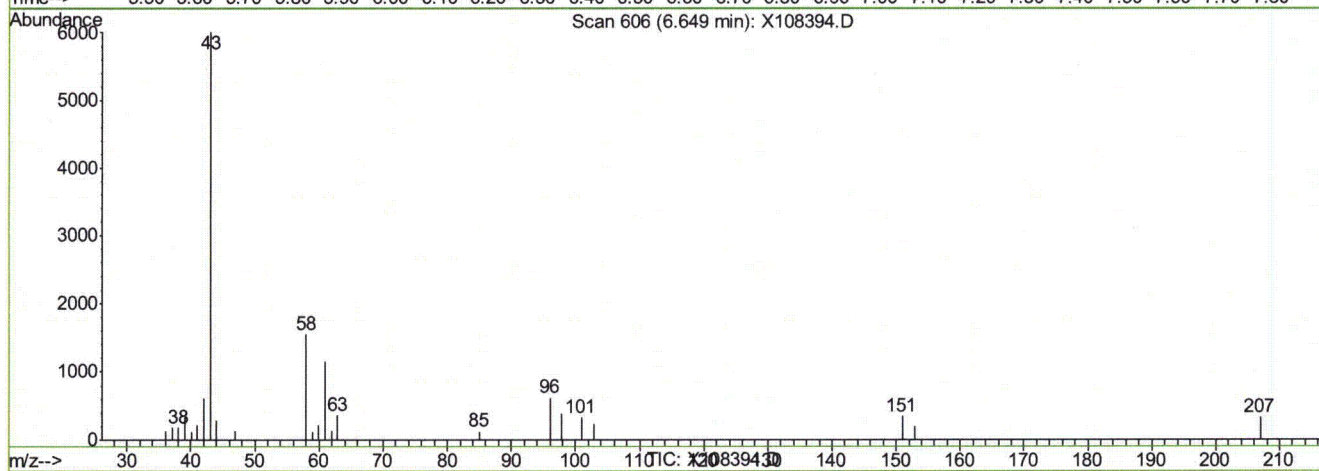
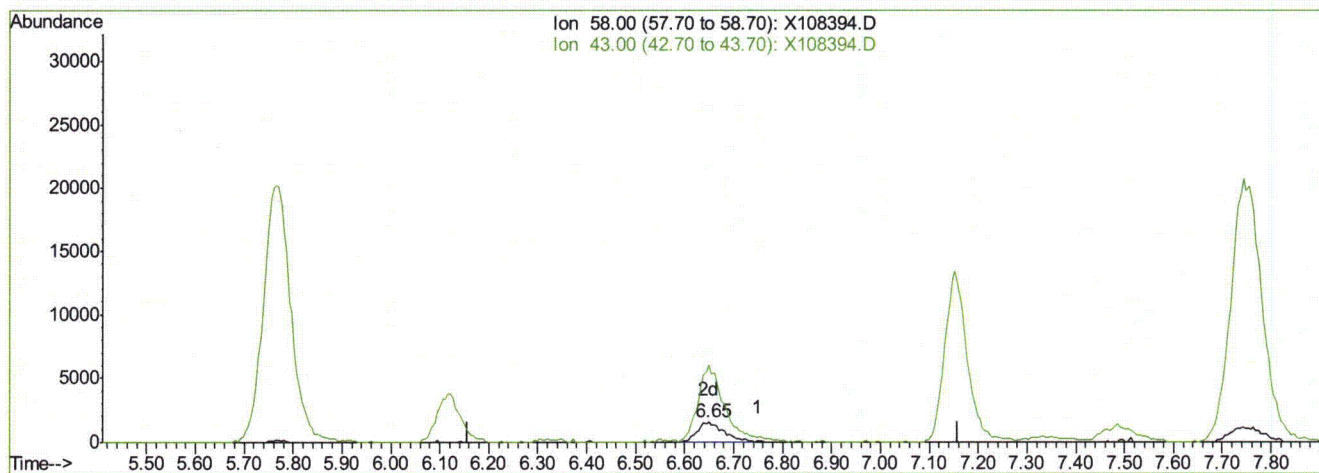
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\OLDDATA\VX4581-4582\X108394.D Vial: 5
Acq On : 27 Oct 2010 4:10 pm Operator: JUNTAEP
Sample : BS2 Inst : MSX
Misc : MS3790,vx4579,5.0,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Nov 2 14:29 2010 Quant Results File: temp.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 : Multiple Level Calibration

6.3.7.3

6



(28) acetone

6.65min 60.94ug/L m

response 5848

Ion	Exp%	Act%
58.00	100	100
43.00	309.80	387.48#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4372\H100518.D Vial: 4
Acq On : 20 Oct 2010 5:24 pm Operator: kristis
Sample : ja58986-1ms Inst : MSH
Misc : ms3575,eh4372,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 21 8:20 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 08:20:00 2010
Response via : Initial Calibration
DataAcq Meth : M4362EPG

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

System Monitoring Compounds						
3) Hexanol	8.03	56	4357930	42.76	ppm	0.03
Spiked Amount	50.000		Recovery	=	85.52%	
Target Compounds						
1) Ethylene Glycol	6.21	31	617609	2.37	ppm	Qvalue 100
2) Propylene Glycol	6.96	45	1149572	4.05	ppm	98

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

H100518.D M4362EPG.M Thu Oct 21 08:20:14 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4372\H100518.D

Vial: 4

Acq On : 20 Oct 2010 5:24 pm

Operator: kristis

Sample : ja58986-1ms

Inst : MSH

Misc : ms3575,eh4372,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 21 8:20 2010

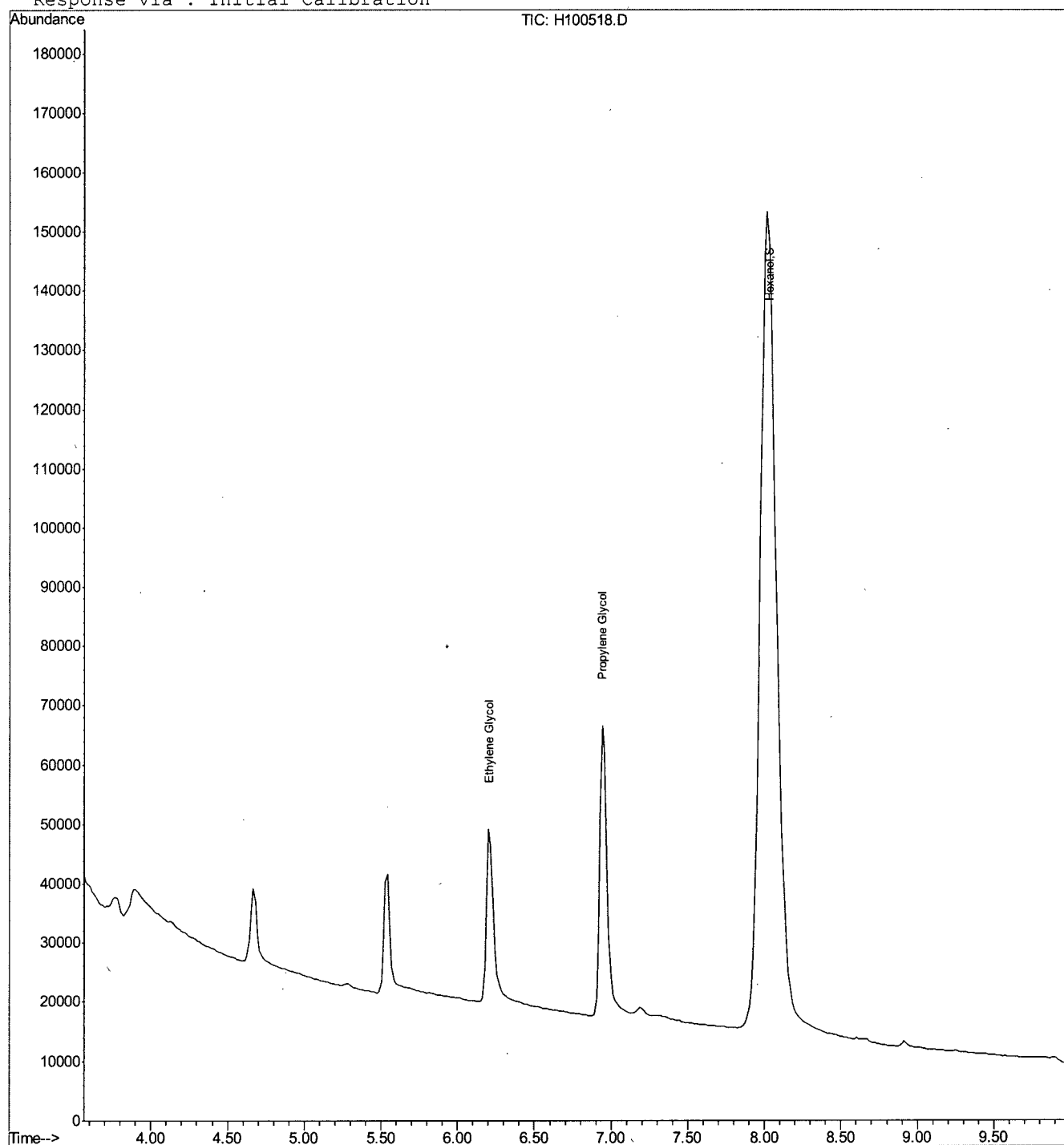
Quant Results File: M4362EPG.RES

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

Title : Ethylene Glycol Propylene Glycol

Last Update : Thu Oct 21 08:20:00 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4372\H100519.D Vial: 5
Acq On : 20 Oct 2010 5:39 pm Operator: kristis
Sample : ja58986-1msd Inst : MSH
Misc : ms3575,eh4372,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 21 8:20 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 08:20:00 2010
Response via : Initial Calibration
DataAcq Meth : M4362EPG

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

System Monitoring Compounds						
3) Hexanol	8.06	56	3930040	38.56	ppm	0.06
Spiked Amount	50.000		Recovery	=	77.12%	
Target Compounds						
1) Ethylene Glycol	6.18	31	717951	2.75	ppm	Qvalue 99
2) Propylene Glycol	6.93	45	1105814	3.89	ppm	99

(#) = qualifier out of range (m) = manual integration
H100519.D M4362EPG.M Thu Oct 21 08:20:32 2010 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4372\H100519.D

Vial: 5

Acq On : 20 Oct 2010 5:39 pm

Operator: kristis

Sample : ja58986-1msd

Inst : MSH

Misc : ms3575,eh4372,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 21 8:20 2010

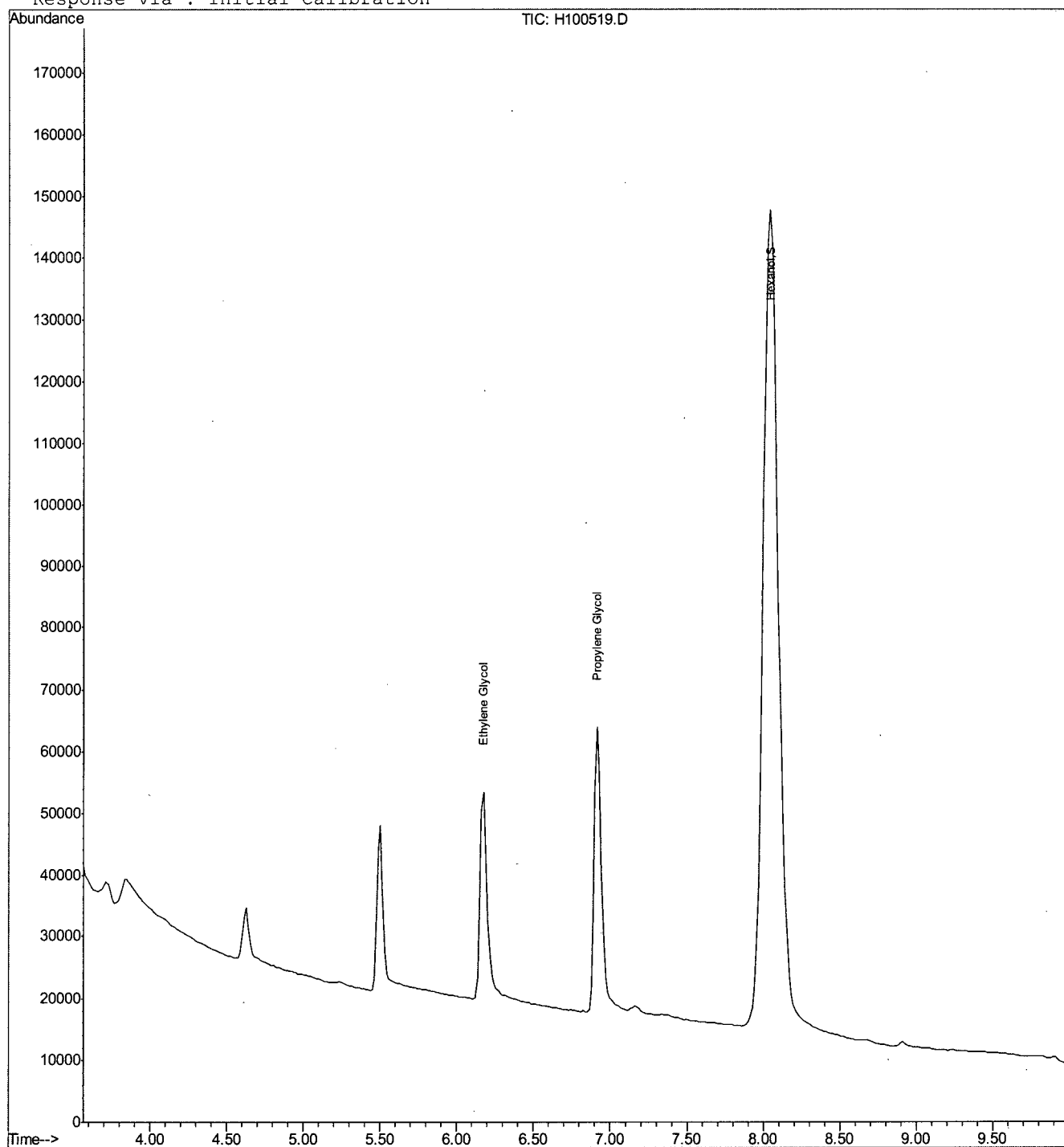
Quant Results File: M4362EPG.RES

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

Title : Ethylene Glycol Propylene Glycol

Last Update : Thu Oct 21 08:20:00 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4374\H100591.D Vial: 4
Acq On : 27 Oct 2010 2:35 pm Operator: kristis
Sample : ja58900-3ms Inst : MSH
Misc : ms3576,eh4375,5.01,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Nov 2 18:13 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)
Title : Ethylene Glycol Propylene Glycol
Last Update : Tue Nov 02 18:13:47 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	6009577	58.96	ppm	0.01
Spiked Amount	50.000		Recovery	=	117.92%	
Target Compounds						
1) Ethylene Glycol	6.27	31	471991	1.81	ppm	98
2) Propylene Glycol	6.99	45	997262	3.51	ppm	99

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

H100591.D M4362EPG.M Wed Nov 03 17:34:48 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100591.D

Vial: 4

Acq On : 27 Oct 2010 2:35 pm

Operator: kristis

Sample : ja58900-3ms

Inst : MSH

Misc : ms3576,eh4375,5.01,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 2 18:13 2010

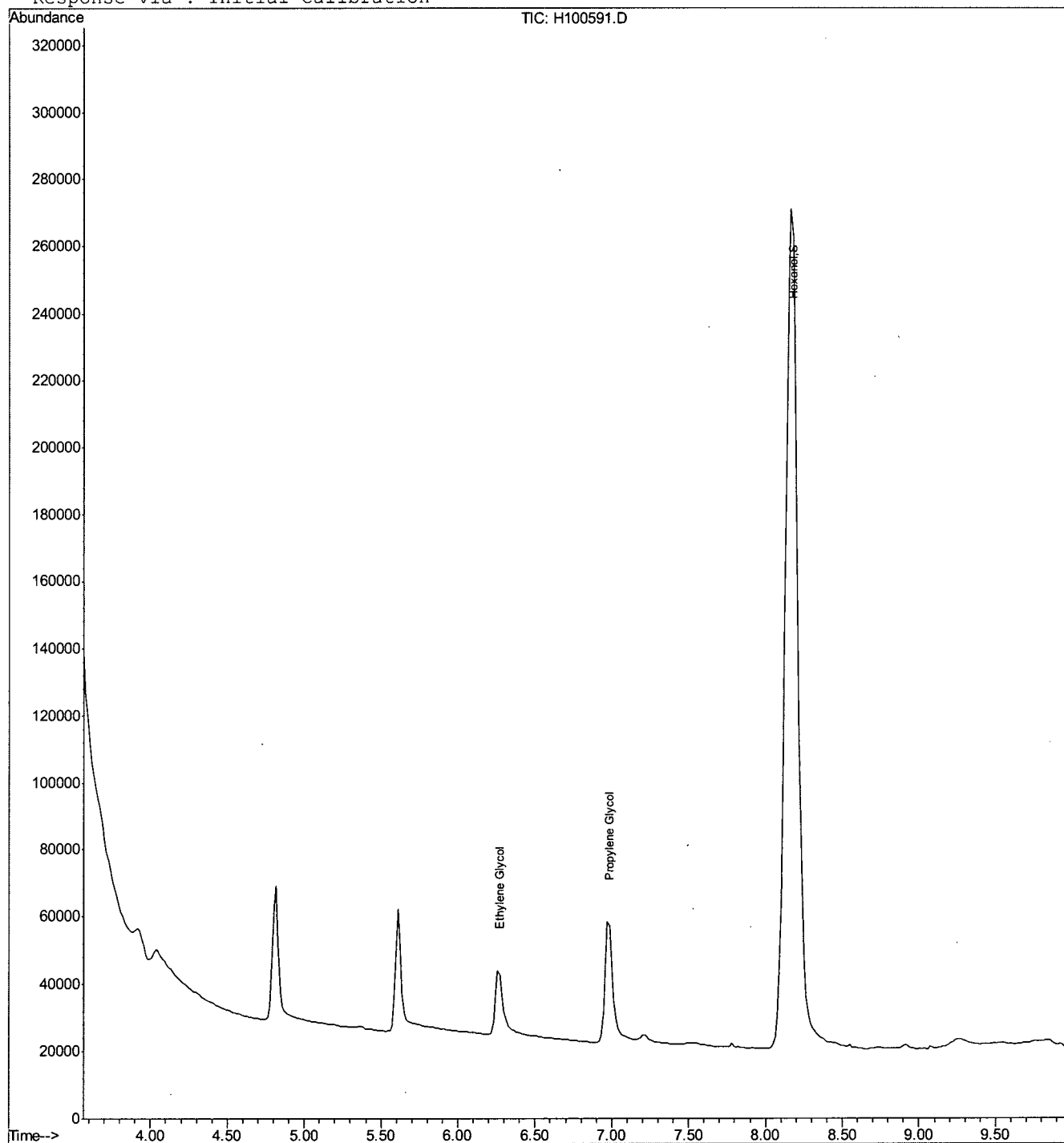
Quant Results File: M4362EPG.RES

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



H100591.D M4362EPG.M

Wed Nov 03 17:34:49 2010

MSH

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4374\H100592.D Vial: 5
Acq On : 27 Oct 2010 3:04 pm Operator: kristis
Sample : ja58900-3msd Inst : MSH
Misc : ms3576,eh4375,5.01,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Nov 2 18:14 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)
Title : Ethylene Glycol Propylene Glycol
Last Update : Tue Nov 02 18:13:47 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	8.21	56	5705071	55.97	ppm	0.03
Spiked Amount	50.000		Recovery	=	111.94%	

Target Compounds

1) Ethylene Glycol	6.29	31	440249	1.69	ppm	99
2) Propylene Glycol	7.01	45	781278	2.75	ppm	99

(#) = qualifier out of range (m) = manual integration
H100592.D M4362EPG.M Wed Nov 03 17:35:02 2010 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100592.D

Vial: 5

Acq On : 27 Oct 2010 3:04 pm

Operator: kristis

Sample : ja58900-3msd

Inst : MSH

Misc : ms3576,eh4375,5.01,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 2 18:14 2010

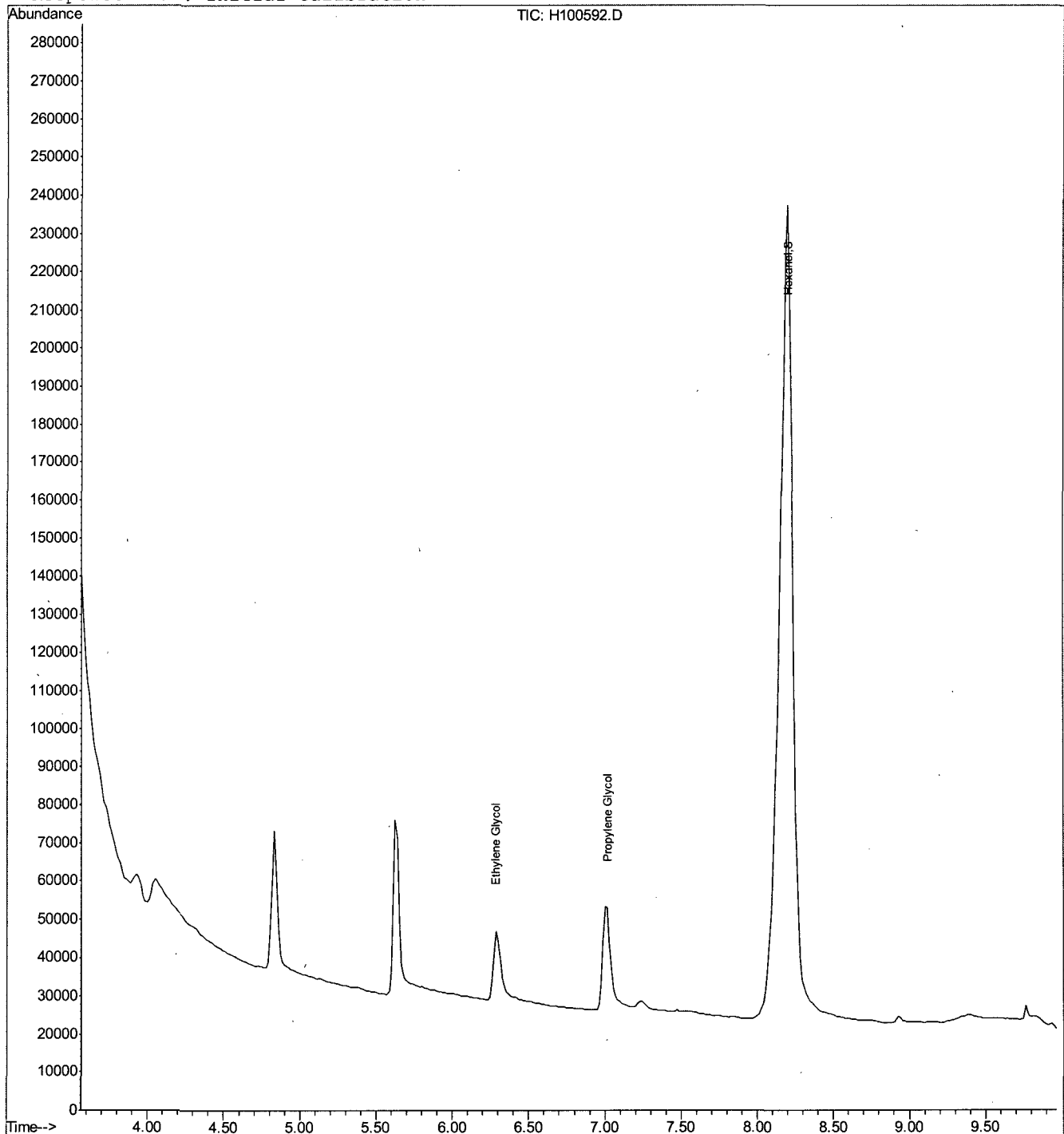
Quant Results File: M4362EPG.RES

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\WX4579-4580\X108353.D Vial: 9
 Acq On : 26 Oct 2010 4:33 pm Operator: JUNTAEP
 Sample : ja58900-3ms Inst : MSX
 Misc : MS3577,vx4579,10.5,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 16:56:36 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	7.35	65	65235	500.00	ug/L	-0.01
6) pentafluorobenzene	10.05	168	139082	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	200186	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	185213	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	61482	50.00	ug/L	0.00

System Monitoring Compounds						
53) dibromofluoromethane (s)	10.10	113	62121	52.26	ug/L	-0.02
Spiked Amount	50.000	Range 67 - 127	Recovery	=	104.52%	
54) 1,2-dichloroethane-d4 (s)	10.63	65	72013	54.98	ug/L	-0.01
Spiked Amount	50.000	Range 65 - 132	Recovery	=	109.96%	
84) toluene-d8 (s)	13.40	98	234249	53.68	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	107.36%	
109) 4-bromofluorobenzene (s)	16.92	95	79054	65.49	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	130.98%	

Target Compounds				Qvalue		
2) tertiary butyl alcohol	7.49	59	31660	202.67	ug/L	91
4) acrolein	6.41	56	86597	339.09	ug/L	# 97
5) 1,4-dioxane	12.17	88	10687	823.02	ug/L	# 98
12) chlorodifluoromethane	3.80	51	13652	10.51	ug/L	82
13) dichlorodifluoromethane	3.79	85	47808	24.93	ug/L	97
16) chloromethane	4.12	50	54202	20.45	ug/L	99
17) vinyl chloride	4.38	62	39970	19.49	ug/L	99
19) bromomethane	5.04	94	28201	22.40	ug/L	97
20) chloroethane	5.22	64	24537	22.50	ug/L	91
21) vinyl bromide	5.57	106	27540	21.69	ug/L	# 93
22) trichlorofluoromethane	5.65	101	59605	28.00	ug/L	90
23) ethyl ether	6.12	74	24394	37.51	ug/L	81
27) 1,1-dichloroethene	6.58	96	24976	20.35	ug/L	95
28) acetone	6.65	58	8811	92.91	ug/L	91
29) allyl chloride	7.16	76	17168	22.43	ug/L	# 86
30) acetonitrile	7.16	40	35812	337.29	ug/L	# 83
31) iodomethane	6.88	142	62517	27.69	ug/L	90
32) iso-butyl alcohol	10.37	74	3068	221.13	ug/L	100
33) carbon disulfide	7.01	76	90260	18.63	ug/L	95
34) methylene chloride	7.39	84	39345	27.50	ug/L	98
35) methyl acetate	7.15	74	6069	36.63	ug/L	# 90
36) methyl tert butyl ether	7.74	73	264691	73.68	ug/L	97
37) trans-1,2-dichloroethene	7.80	96	24402	17.87	ug/L	93
38) di-isopropyl ether	8.44	45	114864	24.38	ug/L	93
39) 2-butanone	9.35	72	7535	62.63	ug/L	57
40) 1,1-dichloroethane	8.48	63	61735	25.06	ug/L	96
41) chloroprene	8.60	53	29449	17.02	ug/L	98
42) acrylonitrile	7.77	53	74346	203.47	ug/L	97
43) vinyl acetate	8.46	86	5567	43.88	ug/L	44
44) ethyl tert-butyl ether	9.01	59	128635	30.88	ug/L	99
45) ethyl acetate	9.38	70	5197	44.35	ug/L	# 16
46) 2,2-dichloropropane	9.37	77	52537	25.02	ug/L	92
47) cis-1,2-dichloroethene	9.38	96	34238	23.46	ug/L	95

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

X108353.D MX4516.M Wed Oct 27 11:58:49 2010 MSX

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\WX4579-4580\X108353.D Vial: 9
 Acq On : 26 Oct 2010 4:33 pm Operator: JUNTAEP
 Sample : ja58900-3ms Inst : MSX
 Misc : MS3577,vx4579,10.5,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 16:56:36 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

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) propionitrile	9.49	54	65414	449.67	ug/L	98
49) tert-Butyl Formate	9.88	59	41910	40.51	ug/L	95
50) bromochloromethane	9.77	128	20578	33.56	ug/L	89
51) tetrahydrofuran	9.81	42	18338	44.86	ug/L	97
52) chloroform	9.85	83	63412	28.13	ug/L	97
55) freon 113	6.55	151	16308	16.97	ug/L	97
56) methacrylonitrile	9.71	41	28066	37.08	ug/L	89
57) 1,1,1-trichloroethane	10.15	97	48927	25.75	ug/L	97
58) cyclohexane	10.22	84	40913	21.97	ug/L	95
60) iso-octane	10.70	57	91586	18.15	ug/L	83
63) epichlorohydrin	12.75	57	13025	144.90	ug/L #	66
64) n-butyl alcohol	11.42	56	69743	2223.93	ug/L	95
65) carbon tetrachloride	10.39	117	44782	28.65	ug/L	96
66) 1,1-dichloropropene	10.37	75	35697	21.09	ug/L	96
67) hexane	8.13	86	2131	9.72	ug/L #	53
68) benzene	10.71	78	122015	24.89	ug/L	100
69) tert-amyl methyl ether	10.76	73	111638	33.30	ug/L	99
70) heptane	10.94	57	8097	8.37	ug/L	91
71) isopropyl acetate	10.65	43	96739	34.45	ug/L	92
72) 1,2-dichloroethane	10.74	62	55137	40.70	ug/L	97
73) trichloroethene	11.65	130	28823	23.04	ug/L	96
76) 2-nitropropane	12.73	46	1848	110.58	ug/L #	1
77) 2-chloroethyl vinyl ether	12.75	63	69588	156.02	ug/L	98
78) methyl methacrylate	12.04	69	29032	43.31	ug/L	90
79) 1,2-dichloropropane	12.01	63	40177	30.42	ug/L	96
80) dibromomethane	12.22	93	26070	39.69	ug/L	91
81) methylcyclohexane	11.92	83	36513	17.78	ug/L	98
82) bromodichloromethane	12.41	83	57707	35.23	ug/L	98
83) cis-1,3-dichloropropene	13.03	75	61874	28.45	ug/L	95
85) 4-methyl-2-pentanone	13.17	58	21842	53.27	ug/L	98
86) toluene	13.50	92	73829	22.84	ug/L	99
87) 3-methyl-1-butanol	13.22	55	49991	963.80	ug/L	91
88) trans-1,3-dichloropropene	13.80	75	50357	26.72	ug/L	99
89) ethyl methacrylate	13.80	69	53132	37.45	ug/L	98
90) 1,1,2-trichloroethane	14.08	83	35481	40.90	ug/L	99
91) 2-hexanone	14.33	58	21397	55.77	ug/L	99
93) 3,3-Dimethyl-1-butanol	14.58	57	53392	499.28	ug/L	99
94) tetrachloroethene	14.28	164	26807	24.71	ug/L	93
95) 1,3-dichloropropane	14.32	76	60352	35.67	ug/L	91
96) butyl acetate	14.44	56	25707	33.98	ug/L	94
97) dibromochloromethane	14.67	129	50542	41.23	ug/L	100
98) 1,2-dibromoethane	14.86	107	36720	36.03	ug/L	99
100) chlorobenzene	15.47	112	82148	25.08	ug/L	99
101) 1,1,1,2-tetrachloroethane	15.56	131	43659	37.84	ug/L	96
102) ethylbenzene	15.55	91	131015	22.63	ug/L	99
103) m,p-xylene	15.69	106	101225	45.16	ug/L	99
104) o-xylene	16.24	106	65897	28.14	ug/L	98
105) styrene	16.26	104	81149	21.63	ug/L	96
106) bromoform	16.59	173	39538	49.30	ug/L	97

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

X108353.D MX4516.M Wed Oct 27 11:58:49 2010 MSX

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108353.D Vial: 9
 Acq On : 26 Oct 2010 4:33 pm Operator: JUNTAEP
 Sample : ja58900-3ms Inst : MSX
 Misc : MS3577,vx4579,10.5,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 16:56:36 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

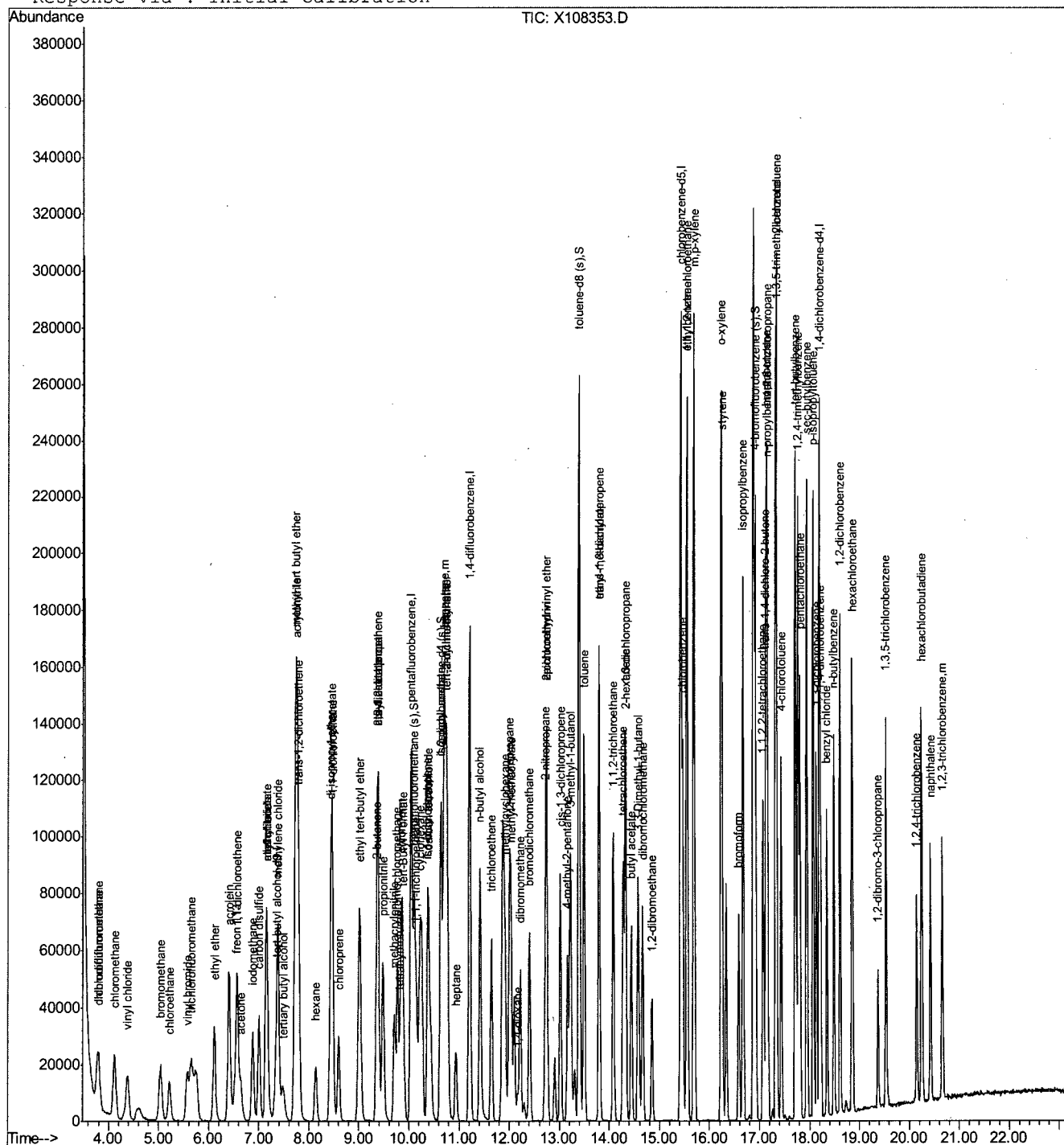
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
108) isopropylbenzene	16.68	105	152626	36.05	ug/L	98
110) bromobenzene	17.14	156	35603	35.02	ug/L	91
111) 1,1,2,2-tetrachloroethane	17.07	83	64715	68.88	ug/L	96
112) trans-1,4-dichloro-2-buten	17.12	53	10437	39.50	ug/L	94
113) 1,2,3-trichloropropane	17.15	110	15061	74.48	ug/L #	26
114) n-propylbenzene	17.16	91	130330	26.45	ug/L	99
116) 2-chlorotoluene	17.32	126	36220	36.34	ug/L	99
117) 4-chlorotoluene	17.44	91	81423	26.01	ug/L	98
118) 1,3,5-trimethylbenzene	17.34	105	135066	39.61	ug/L	98
119) tert-butylbenzene	17.72	119	128856	42.74	ug/L	97
120) pentachloroethane	17.81	167	34386	61.14	ug/L	98
121) 1,2,4-trimethylbenzene	17.77	105	126990	35.78	ug/L	98
123) sec-butylbenzene	17.95	105	165065	36.56	ug/L	99
124) 1,3-dichlorobenzene	18.14	146	52339	26.92	ug/L	99
125) p-isopropyltoluene	18.08	119	130010	35.11	ug/L	98
126) 1,4-dichlorobenzene	18.23	146	44001	23.84	ug/L	99
127) 1,2-dichlorobenzene	18.62	146	66319	37.36	ug/L	98
128) benzyl chloride	18.35	91	73952	40.10	ug/L	98
130) n-butylbenzene	18.49	92	40014	20.18	ug/L	91
132) 1,2-dibromo-3-chloropropan	19.37	75	12964	76.56	ug/L	93
133) 1,3,5-trichlorobenzene	19.54	180	45746	31.45	ug/L	98
134) hexachlorobutadiene	20.25	225	35747	50.76	ug/L	98
135) naphthalene	20.43	128	74961	36.42	ug/L	98
136) 1,2,4-trichlorobenzene	20.15	180	23685	20.80	ug/L	97
137) 1,2,3-trichlorobenzene	20.67	180	32460	34.76	ug/L	99
138) hexachloroethane	18.86	201	32931	51.35	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108353.D MX4516.M Wed Oct 27 11:58:49 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\WX4579-4580\X108353.D Vial: 9
Acq On : 26 Oct 2010 4:33 pm Operator: JUNTAEP
Sample : ja58900-3ms Inst : MSX
Misc : MS3577,vx4579,10.5,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 11:58 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



6.4.5

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108354.D Vial: 10
 Acq On : 26 Oct 2010 5:02 pm Operator: JUNTAEP
 Sample : ja58900-3msd Inst : MSX
 Misc : MS3577,vx4579,10.2,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 17:25:27 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	62668	500.00	ug/L	0.00
6) pentafluorobenzene	10.05	168	154941	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	215527	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	200694	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	76829	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.11	113	64973	49.06	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 127	Recovery	=	98.12%
54) 1,2-dichloroethane-d4 (s)	10.63	65	73924	50.67	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	101.34%
84) toluene-d8 (s)	13.40	98	247105	52.59	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	105.18%
109) 4-bromofluorobenzene (s)	16.92	95	90966	60.30	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	120.60%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) tertiary butyl alcohol	7.49	59	32748	218.22	ug/L	90
4) acrolein	6.41	56	82100	334.65	ug/L	# 98
5) 1,4-dioxane	12.17	88	12705	991.24	ug/L	# 97
12) chlorodifluoromethane	3.81	51	27347	18.90	ug/L	86
13) dichlorodifluoromethane	3.78	85	66371	31.07	ug/L	96
16) chloromethane	4.12	50	69907	23.67	ug/L	99
17) vinyl chloride	4.40	62	52076	22.80	ug/L	99
19) bromomethane	5.05	94	34581	24.66	ug/L	98
20) chloroethane	5.22	64	32555	26.80	ug/L	96
21) vinyl bromide	5.57	106	35303	24.95	ug/L	# 92
22) trichlorofluoromethane	5.67	101	83059	35.02	ug/L	99
23) ethyl ether	6.12	74	22420	30.95	ug/L	92
27) 1,1-dichloroethene	6.58	96	24625	18.01	ug/L	97
28) acetone	6.65	58	6795	63.61	ug/L	93
29) allyl chloride	7.17	76	16627	19.50	ug/L	# 57
30) acetonitrile	7.15	40	38674	326.96	ug/L	# 71
31) iodomethane	6.88	142	59849	23.79	ug/L	91
32) iso-butyl alcohol	10.37	74	2701	181.88	ug/L	100
33) carbon disulfide	7.01	76	84711	15.69	ug/L	95
34) methylene chloride	7.39	84	38135	23.92	ug/L	96
35) methyl acetate	7.15	74	5997	32.49	ug/L	# 90
36) methyl tert butyl ether	7.75	73	278673	69.63	ug/L	97
37) trans-1,2-dichloroethene	7.81	96	23282	15.31	ug/L	95
38) di-isopropyl ether	8.45	45	153030	29.15	ug/L	87
39) 2-butanone	9.35	72	6319	46.85	ug/L	75
40) 1,1-dichloroethane	8.49	63	61402	22.37	ug/L	97
41) chloroprene	8.61	53	47994	24.89	ug/L	96
42) acrylonitrile	7.77	53	70596	173.43	ug/L	97
43) vinyl acetate	8.47	86	5560	39.33	ug/L	75
44) ethyl tert-butyl ether	9.02	59	163056	35.13	ug/L	99
45) ethyl acetate	9.37	70	4795	36.73	ug/L	# 1
46) 2,2-dichloropropane	9.37	77	54023	23.10	ug/L	95
47) cis-1,2-dichloroethene	9.38	96	32692	20.10	ug/L	96

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

X108354.D MX4516.M Wed Oct 27 11:59:25 2010 MSX

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108354.D Vial: 10
 Acq On : 26 Oct 2010 5:02 pm Operator: JUNTAEP
 Sample : ja58900-3msd Inst : MSX
 Misc : MS3577,vx4579,10.2,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 17:25:27 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	9.49	54	61253	377.97	ug/L	91
49) tert-Butyl Formate	9.89	59	47071	40.84	ug/L #	92
50) bromochloromethane	9.78	128	19522	28.58	ug/L	94
51) tetrahydrofuran	9.81	42	17154	37.67	ug/L	97
52) chloroform	9.86	83	62549	24.91	ug/L	98
55) freon 113	6.55	151	29110	27.20	ug/L	85
56) methacrylonitrile	9.71	41	24923	29.56	ug/L	94
57) 1,1,1-trichloroethane	10.15	97	50817	24.01	ug/L	96
58) cyclohexane	10.23	84	42069	20.28	ug/L	94
60) iso-octane	10.71	57	147377	26.22	ug/L	90
63) epichlorohydrin	12.75	57	11909	123.05	ug/L	70
64) n-butyl alcohol	11.42	56	72345	2142.69	ug/L	96
65) carbon tetrachloride	10.40	117	45563	27.07	ug/L	96
66) 1,1-dichloropropene	10.37	75	34575	18.97	ug/L	96
67) hexane	8.16	86	3522	14.92	ug/L #	48
68) benzene	10.71	78	115600	21.90	ug/L	99
69) tert-amyl methyl ether	10.77	73	133296	36.93	ug/L	98
70) heptane	10.94	57	12607	12.10	ug/L	95
71) isopropyl acetate	10.65	43	109540	36.23	ug/L	97
72) 1,2-dichloroethane	10.75	62	48281	33.10	ug/L	95
73) trichloroethene	11.65	130	28038	20.82	ug/L	95
76) 2-nitropropane	12.72	46	1797	100.42	ug/L #	1
77) 2-chloroethyl vinyl ether	12.75	63	60977	126.98	ug/L	98
78) methyl methacrylate	12.04	69	23121	32.04	ug/L	97
79) 1,2-dichloropropane	12.02	63	38042	26.75	ug/L	100
80) dibromomethane	12.22	93	22118	31.27	ug/L	92
81) methylcyclohexane	11.92	83	59255	26.80	ug/L	97
82) bromodichloromethane	12.41	83	54256	30.77	ug/L	93
83) cis-1,3-dichloropropene	13.03	75	49451	21.12	ug/L	90
85) 4-methyl-2-pentanone	13.17	58	18569	42.07	ug/L	99
86) toluene	13.50	92	66891	19.22	ug/L	95
87) 3-methyl-1-butanol	13.23	55	50248	899.80	ug/L	91
88) trans-1,3-dichloropropene	13.79	75	35989	17.73	ug/L	95
89) ethyl methacrylate	13.80	69	41856	27.41	ug/L	99
90) 1,1,2-trichloroethane	14.08	83	30490	32.64	ug/L	96
91) 2-hexanone	14.33	58	15385	37.25	ug/L	94
93) 3,3-Dimethyl-1-butanol	14.58	57	53077	458.05	ug/L	99
94) tetrachloroethene	14.28	164	24494	20.83	ug/L	98
95) 1,3-dichloropropane	14.32	76	50338	27.45	ug/L	91
96) butyl acetate	14.44	56	21264	25.94	ug/L	98
97) dibromochloromethane	14.67	129	42845	32.25	ug/L	98
98) 1,2-dibromoethane	14.86	107	28607	25.90	ug/L	89
100) chlorobenzene	15.47	112	65280	18.39	ug/L	95
101) 1,1,1,2-tetrachloroethane	15.56	131	42936	34.34	ug/L	97
102) ethylbenzene	15.55	91	112956	18.01	ug/L	98
103) m,p-xylene	15.69	106	84381	34.74	ug/L	96
104) o-xylene	16.24	106	56507	22.27	ug/L	84
105) styrene	16.26	104	58430	14.37	ug/L	95
106) bromoform	16.59	173	32096	36.93	ug/L	96

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

X108354.D MX4516.M

Wed Oct 27 11:59:25 2010

MSX

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108354.D Vial: 10
 Acq On : 26 Oct 2010 5:02 pm Operator: JUNTAEP
 Sample : ja58900-3msd Inst : MSX
 Misc : MS3577,vx4579,10.2,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 17:25:27 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

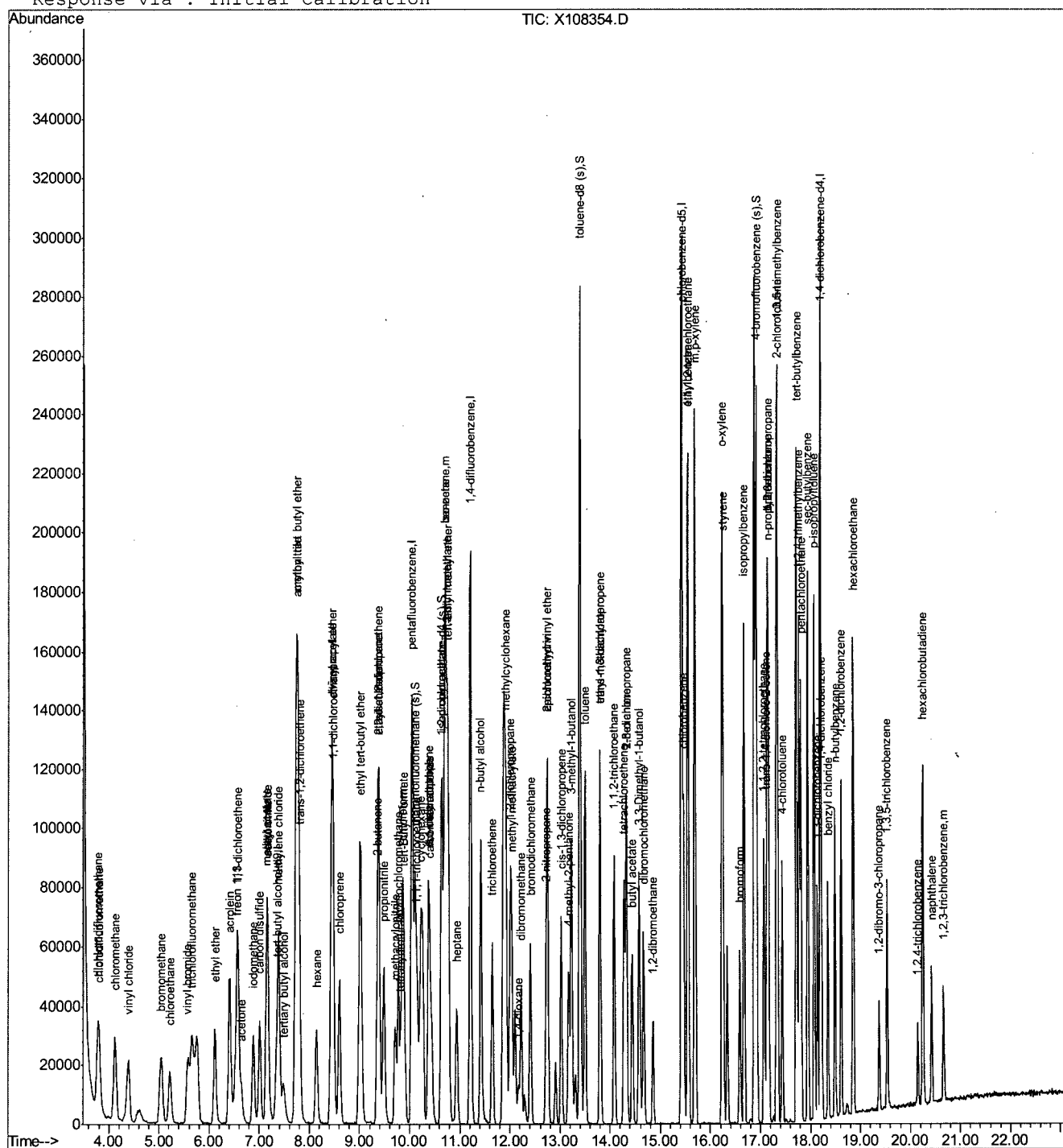
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
108) isopropylbenzene	16.68	105	134933	25.50	ug/L	99
110) bromobenzene	17.14	156	25351	19.96	ug/L	94
111) 1,1,2,2-tetrachloroethane	17.07	83	53866	45.88	ug/L	96
112) trans-1,4-dichloro-2-buten	17.12	53	7146	21.64	ug/L	90
113) 1,2,3-trichloropropane	17.15	110	12659	50.10	ug/L #	26
114) n-propylbenzene	17.16	91	105185	17.08	ug/L	98
116) 2-chlorotoluene	17.32	126	29259	23.49	ug/L	98
117) 4-chlorotoluene	17.44	91	54098	13.83	ug/L	96
118) 1,3,5-trimethylbenzene	17.34	105	115551	27.12	ug/L	99
119) tert-butylbenzene	17.72	119	119245	31.65	ug/L	96
120) pentachloroethane	17.81	167	33167	47.19	ug/L	96
121) 1,2,4-trimethylbenzene	17.77	105	97628	22.01	ug/L	98
123) sec-butylbenzene	17.95	105	139188	24.67	ug/L	98
124) 1,3-dichlorobenzene	18.14	146	31917	13.13	ug/L	98
125) p-isopropyltoluene	18.08	119	103241	22.31	ug/L	97
126) 1,4-dichlorobenzene	18.23	146	25156	10.91	ug/L	96
127) 1,2-dichlorobenzene	18.62	146	42911	19.35	ug/L	99
128) benzyl chloride	18.35	91	53542	23.23	ug/L	98
130) n-butylbenzene	18.50	92	31959	12.90	ug/L	95
132) 1,2-dibromo-3-chloropropan	19.37	75	10266	48.52	ug/L	91
133) 1,3,5-trichlorobenzene	19.54	180	25157	13.84	ug/L	99
134) hexachlorobutadiene	20.25	225	30492	34.65	ug/L	98
135) naphthalene	20.43	128	36856	14.33	ug/L	98
136) 1,2,4-trichlorobenzene	20.15	180	9266	6.51	ug/L	97
137) 1,2,3-trichlorobenzene	20.67	180	13693	11.74	ug/L	98
138) hexachloroethane	18.86	201	31820	39.71	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108354.D MX4516.M Wed Oct 27 11:59:26 2010 MSX

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108354.D      Vial: 10
Acq On    : 26 Oct 2010   5:02 pm                        Operator: JUNTAEP
Sample    : ja58900-3msd                                Inst  : MSX
Misc      : MS3577,vx4579,10.2,,,,1                     Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Oct 27 11:59 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



6.4.6

9

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\av4452\v105727.D

Vial: 13

Acq On : 4 Aug 2010 10:17 pm

Operator: DONGMEI

Sample : bfb

Inst : MSV

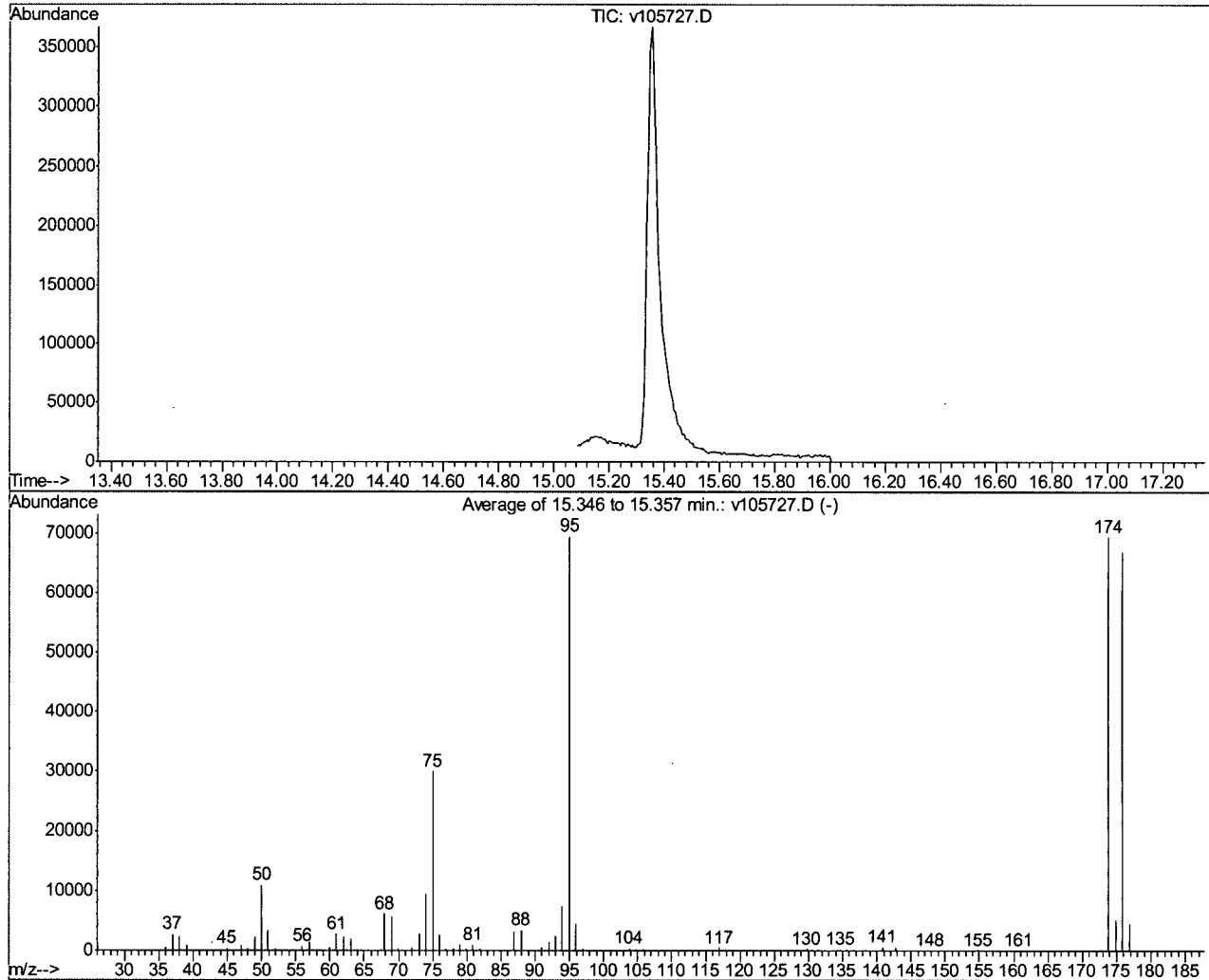
Misc : MS230,VV4452,5.0,,,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

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

Title : SW-846 Method 8260



AutoFind: Scans 51, 52, 53; Background Corrected with Scan 39

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	15.7	10900	PASS
75	95	30	60	43.3	30056	PASS
95	95	100	100	100.0	69464	PASS
96	95	5	9	6.4	4448	PASS
173	174	0.00	2	0.2	132	PASS
174	95	50	120	99.8	69314	PASS
175	174	5	9	7.5	5197	PASS
176	174	95	101	96.5	66866	PASS
177	176	5	9	6.7	4448	PASS

v105727.D MVBFB.M Fri Aug 06 18:42:50 2010 RPT1

Average of 15.346 to 15.357 min.: v105727.D

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	571	55.95	725	69.95	368	80.85	963
37.00	2674	56.95	1419	71.00	69	81.85	414
37.95	2335	58.00	137	71.90	530	83.00	65
39.00	891	60.00	622	72.95	2856	86.20	78
44.95	440	60.95	2782	74.00	9513	86.90	3224
46.95	916	62.00	2360	75.00	30056	87.95	3412
47.90	405	63.00	1958	75.95	2729	90.95	501
49.00	2354	63.95	116	76.95	429	91.95	1440
50.00	10900	67.05	30	78.00	404	92.95	2578
50.95	3367	67.95	6213	78.90	1041	93.95	7412
51.95	347	68.95	5624	79.90	354	95.00	69464

Average of 15.346 to 15.357 min.: v105727.D

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.95	4448	117.70	74	141.80	74	177.80	180
96.95	278	117.95	239	142.85	554		
97.90	80	118.70	86	147.80	94		
103.80	403	118.85	242	154.80	107		
104.85	251	127.80	69	160.80	67		
105.70	82	128.80	142	172.40	92		
105.95	177	129.80	276	172.70	132		
114.95	84	130.80	62	173.85	69314		
115.70	80	134.75	212	174.85	5197		
116.10	86	136.80	68	175.85	66866		
116.95	452	140.90	618	176.85	4448		

SW-846 Method 8260

Data File : C:\MSDCHEM\1\DATA\V108504.D

Vial: 1

Acq On : 21 Oct 2010 9:56 am

Operator: JIANHUAL

Sample : BFB

Inst : MSV

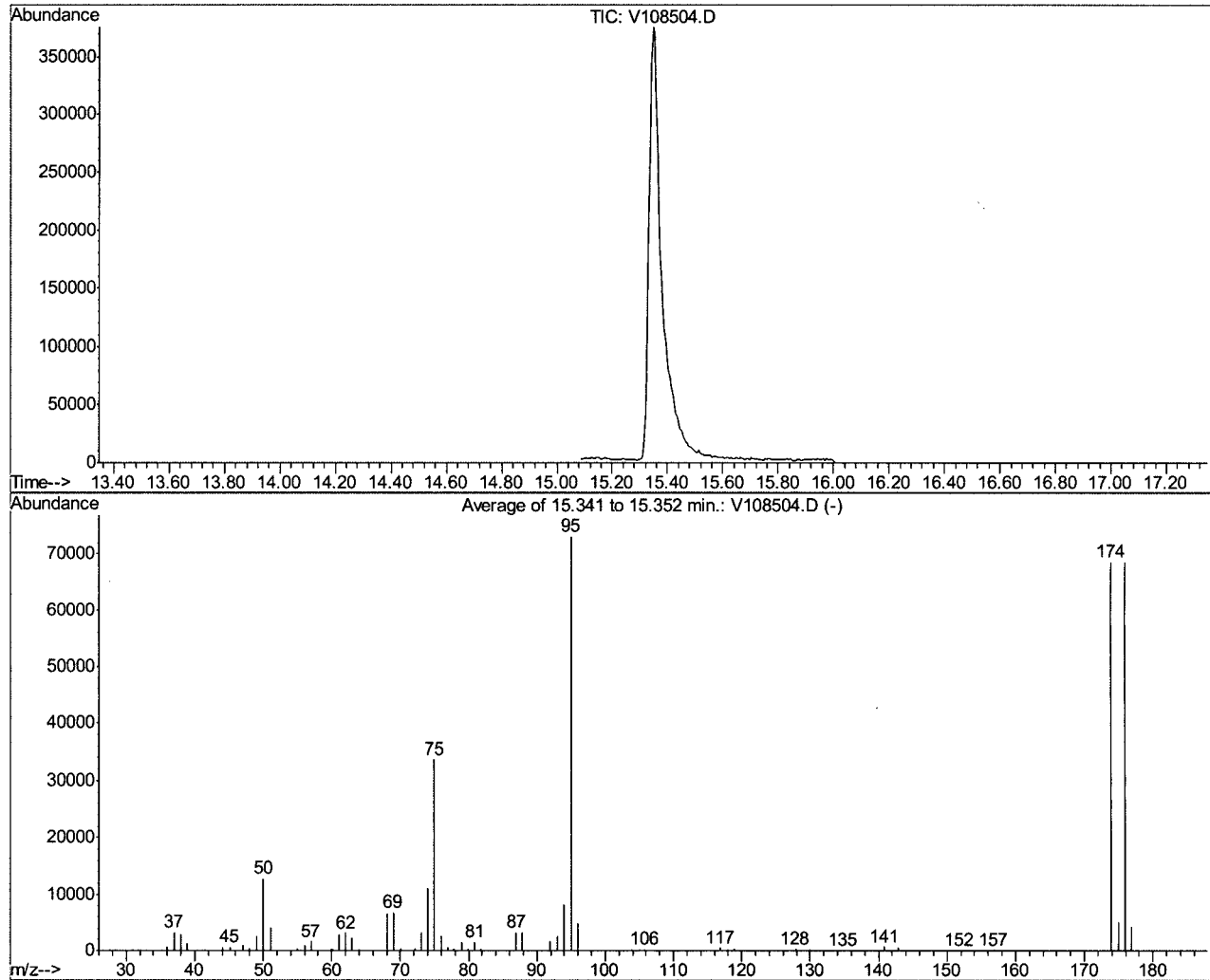
Misc : MS3346,VV4577,5,,,,,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

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

Title : SW-846 Method 8260



AutoFind: Scans 50, 51, 52; Background Corrected with Scan 40

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	17.5	12819	PASS
75	95	30	60	46.1	33696	PASS
95	95	100	100	100.0	73120	PASS
96	95	5	9	6.8	4946	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.8	68581	PASS
175	174	5	9	7.4	5079	PASS
176	174	95	101	99.8	68453	PASS
177	176	5	9	6.4	4363	PASS

V108504.D MVBFB.M Thu Oct 21 14:41:05 2010 RPT1

Average of 15.341 to 15.352 min.: V108504.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	719	50.00	12819	63.95	216	76.05	2603
37.00	3260	51.05	4147	65.70	67	77.00	652
38.05	2877	52.00	77	66.70	84	77.80	107
39.00	1226	54.95	341	67.10	65	77.95	386
39.95	97	56.00	959	68.00	6483	78.90	1508
44.00	590	57.00	1607	69.00	6833	79.95	435
45.10	615	59.90	389	70.05	375	80.85	1577
46.20	66	60.10	186	72.05	423	81.85	324
47.05	856	61.00	2872	73.00	3099	86.95	3278
48.00	412	62.00	3148	74.00	11015	87.90	3244
49.00	2580	63.00	2224	75.00	33696	91.95	1654

Average of 15.341 to 15.352 min.: V108504.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	2603	117.90	284	151.80	66		
94.00	8288	118.85	342	154.90	94		
95.00	73120	127.85	337	156.85	134		
96.00	4946	128.30	86	171.90	91		
103.85	242	128.90	83	172.40	64		
104.95	137	129.70	73	173.90	68581		
105.85	264	129.95	125	174.90	5079		
107.00	74	132.90	61	175.90	68453		
115.80	76	134.90	69	176.90	4363		
116.10	86	140.90	724	177.90	84		
116.90	503	142.85	590				

6.5.2

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

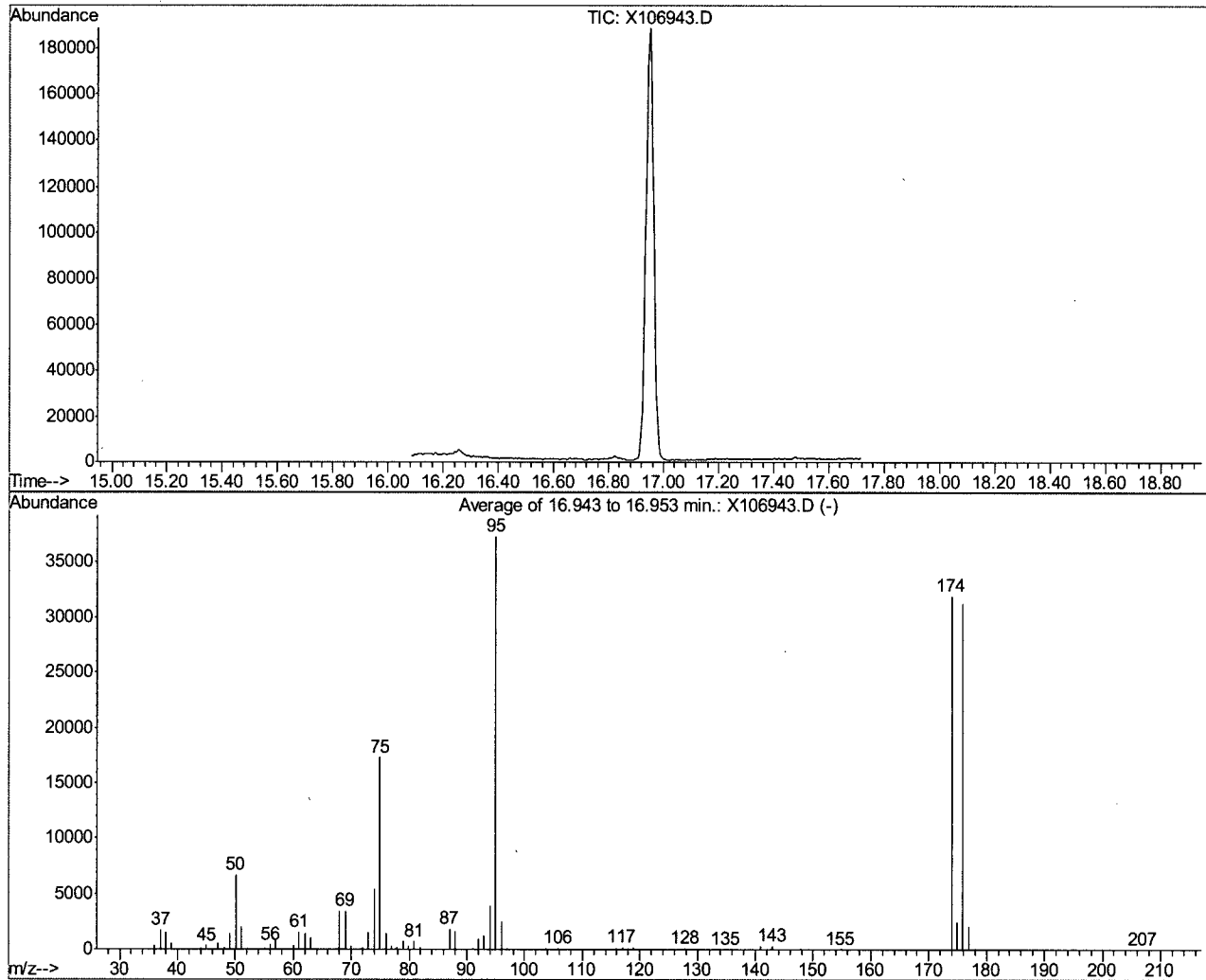
Misc : MS1864,vx4516,5.0,,,,,1

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

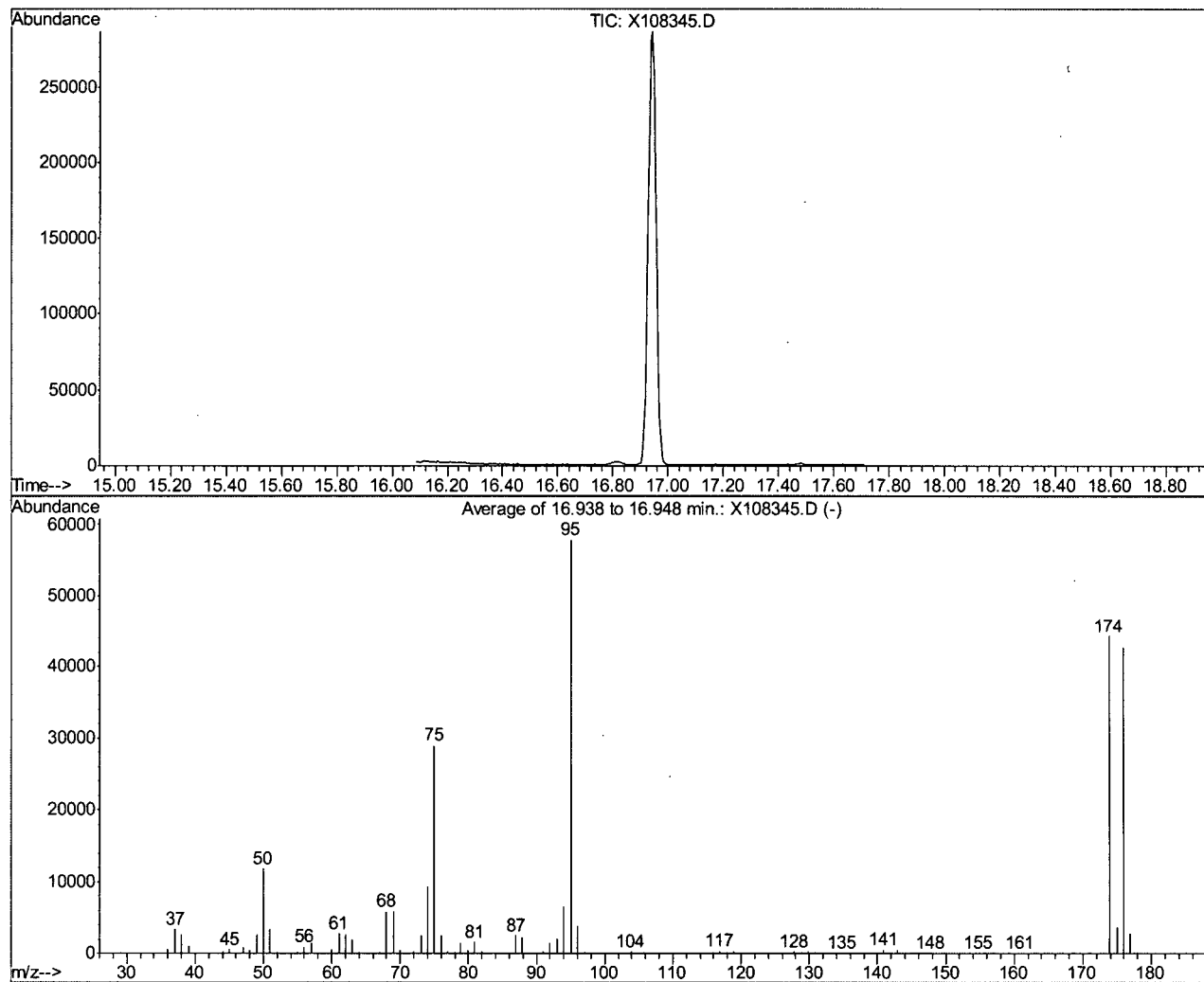
Modified:subtracted

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				

6.5.3
6

BFB

Data File : C:\MSDCHEM\1\DATA\OLDDATA\VX4579-4580\X108345.D Vial: 1
 Acq On : 26 Oct 2010 11:37 am Operator: JUNTAEP
 Sample : bfb Inst : MSX
 Misc : MS3790,vx4579,5.0,,,,,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	20.4	11831	PASS
75	95	30	60	50.0	28914	PASS
95	95	100	100	100.0	57874	PASS
96	95	5	9	6.8	3920	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	76.6	44314	PASS
175	174	5	9	8.3	3676	PASS
176	174	95	101	96.2	42650	PASS
177	176	5	9	6.5	2767	PASS

X108345.D MXBFB.M Tue Nov 02 14:28:22 2010 MSX

Average of 16.938 to 16.948 min.: X108345.D

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	575	49.05	2610	63.00	1887	76.95	343
37.10	3393	50.00	11831	64.05	197	78.00	211
38.05	2694	51.00	3450	67.00	84	78.90	1528
39.05	1097	52.05	163	68.00	5814	79.95	456
40.00	1	55.00	105	69.00	5758	80.90	1592
42.80	20	56.00	891	70.00	425	81.90	330
44.00	292	57.00	1497	72.00	289	86.05	61
45.05	586	58.05	53	73.00	2549	87.00	2473
46.10	23	60.00	598	74.00	9380	87.95	2222
47.00	880	61.00	2778	75.00	28914	90.95	253
48.00	429	62.00	2651	76.00	2512	92.00	1510

Average of 16.938 to 16.948 min.: X108345.D

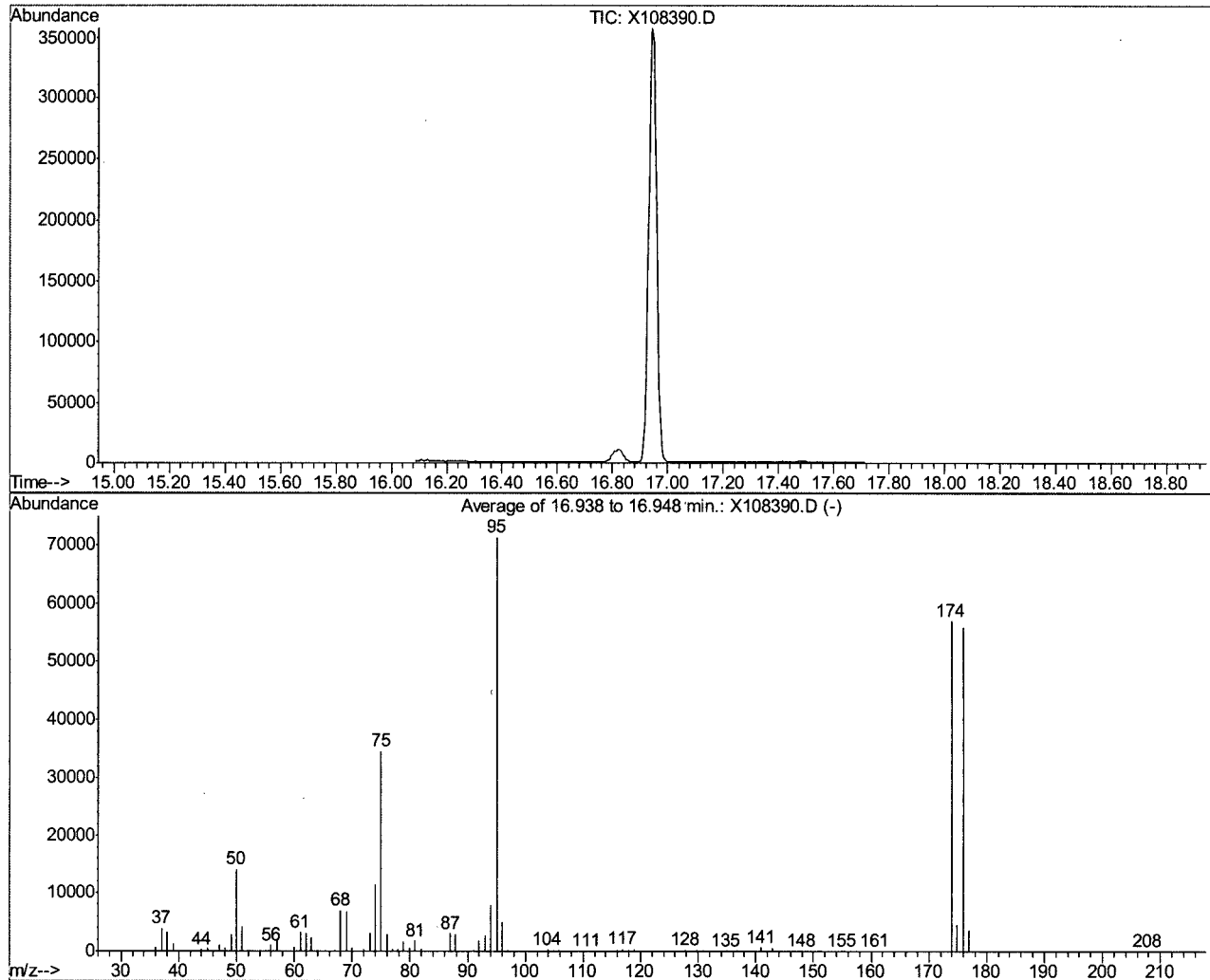
bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	2152	115.95	188	140.90	509	171.80	31
94.00	6496	116.90	371	141.90	84	173.90	44314
95.00	57874	117.90	218	142.85	452	174.95	3676
96.00	3920	118.90	243	144.90	23	175.90	42650
97.05	125	127.85	235	145.85	86	176.90	2767
103.90	237	128.90	100	146.90	22	177.95	91
105.00	55	129.85	228	147.85	133		
105.85	222	130.90	84	149.90	70		
106.95	50	134.85	95	154.90	146		
112.90	29	136.95	122	156.85	95		
114.95	53	139.90	22	160.90	33		

BFB

Data File : C:\MSDCHEM\1\DATA\VX4581-4582\X108390.D Vial: 1
 Acq On : 27 Oct 2010 1:46 pm Operator: JUNTAEP
 Sample : BFB Inst : MSX
 Misc : MS3790,vx4581,5.0,,,,,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 154

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.9	14167	PASS
75	95	30	60	48.5	34610	PASS
95	95	100	100	100.0	71362	PASS
96	95	5	9	6.9	4935	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	79.8	56952	PASS
175	174	5	9	8.0	4580	PASS
176	174	95	101	98.3	56005	PASS
177	176	5	9	6.7	3743	PASS

X108390.D MXBFB.M Mon Nov 01 14:45:09 2010 MSX

Average of 16.938 to 16.948 min.: X108390.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	721	50.00	14167	64.05	194	77.95	318
37.00	3927	51.00	4174	67.00	104	78.90	1721
38.05	3340	51.95	210	68.00	6996	79.95	575
39.05	1231	54.95	164	69.00	6702	80.90	1792
39.95	45	56.00	1018	70.00	569	81.90	407
44.00	360	57.00	1838	72.00	341	85.95	90
45.05	598	58.05	64	73.00	3133	86.95	3032
46.00	40	60.00	729	74.00	11429	87.90	2984
47.00	1101	61.00	3255	75.00	34610	90.95	244
48.05	468	62.00	3160	76.00	2980	92.00	1792
49.00	2998	63.00	2349	76.95	428	93.00	2720

Average of 16.938 to 16.948 min.: X108390.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	7929	114.85	78	134.90	121	152.90	21
95.00	71362	115.80	63	136.85	112	154.80	62
96.00	4935	115.95	160	139.40	23	154.95	120
97.00	143	116.90	414	140.90	701	156.80	75
102.90	21	117.90	245	141.85	93	157.00	44
103.90	286	118.90	305	142.90	634	158.85	59
104.90	101	127.85	272	144.90	55	159.10	20
105.85	255	128.80	72	145.80	79	160.80	22
106.80	20	129.00	40	146.90	53	172.00	26
110.75	46	129.85	225	147.90	148	173.90	56952
112.90	23	130.95	123	149.85	72	174.90	4580

Average of 16.938 to 16.948 min.: X108390.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.90	56005						
176.90	3743						
177.80	66						
178.00	41						
206.95	12						
207.90	23						

6.5.5

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

Page 1

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

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Aug 27 16:18 2010

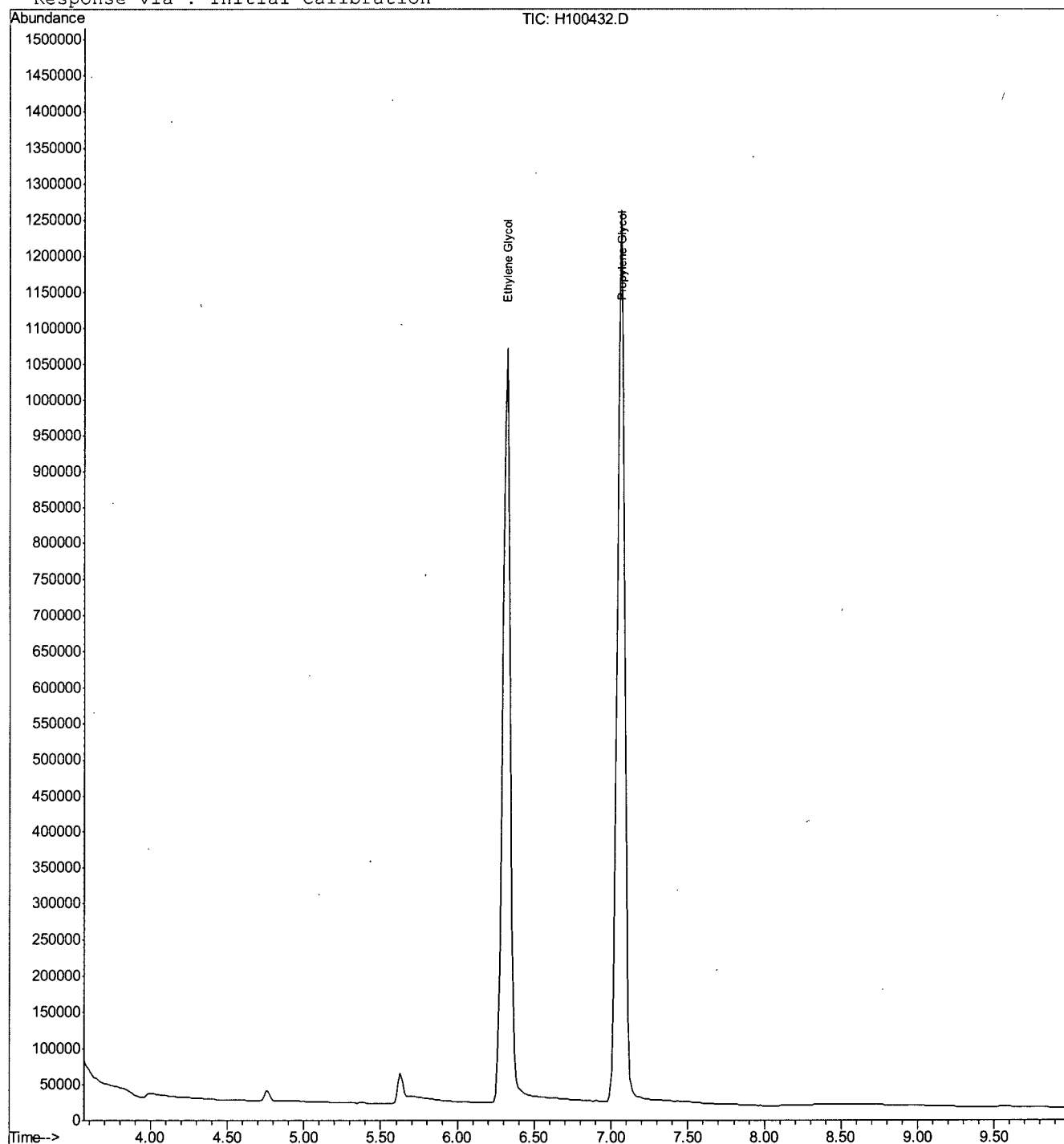
Quant Results File: M4362EPG.RES

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

Page 1

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

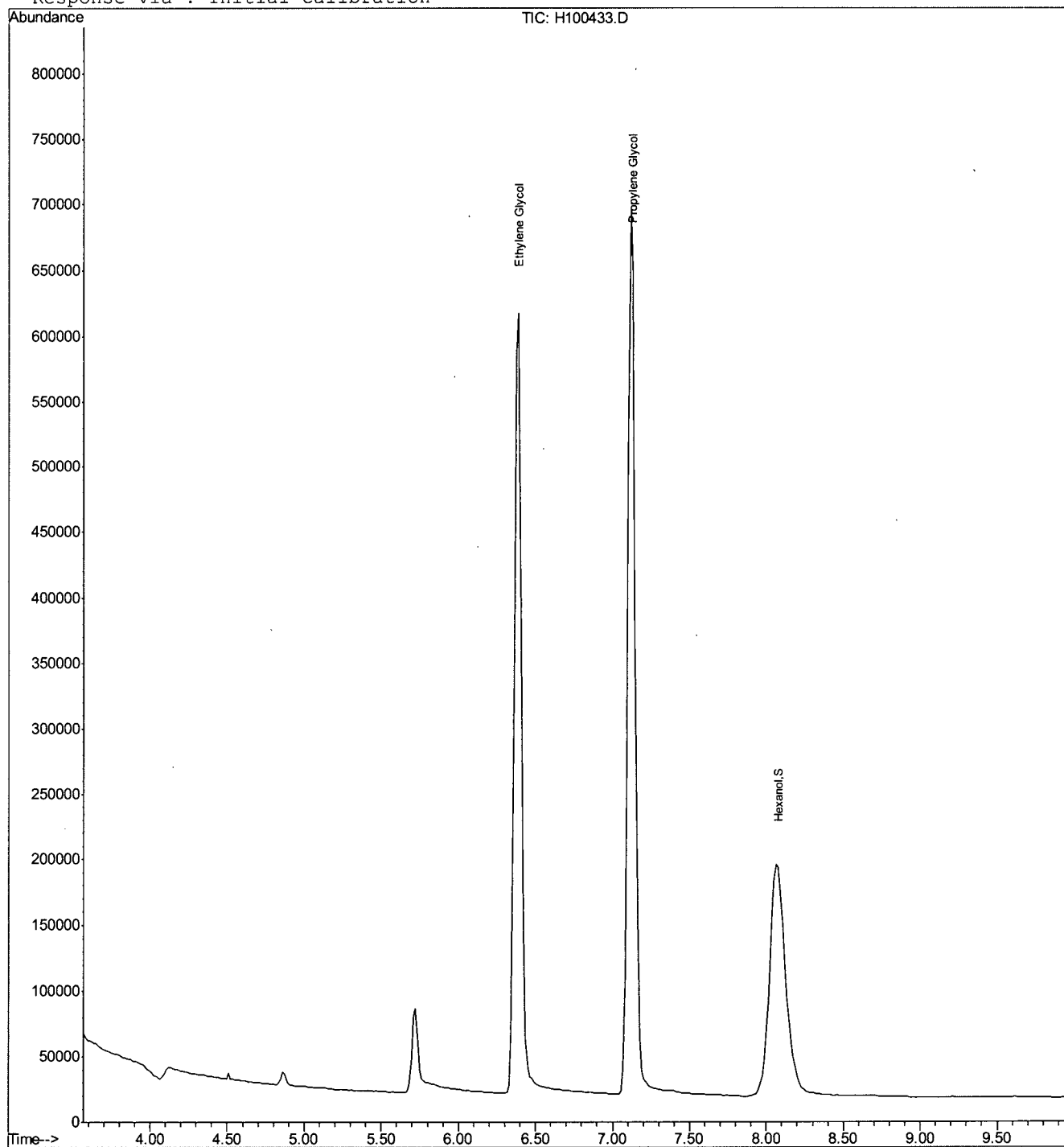
Quant Results File: M4362EPG.RES

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

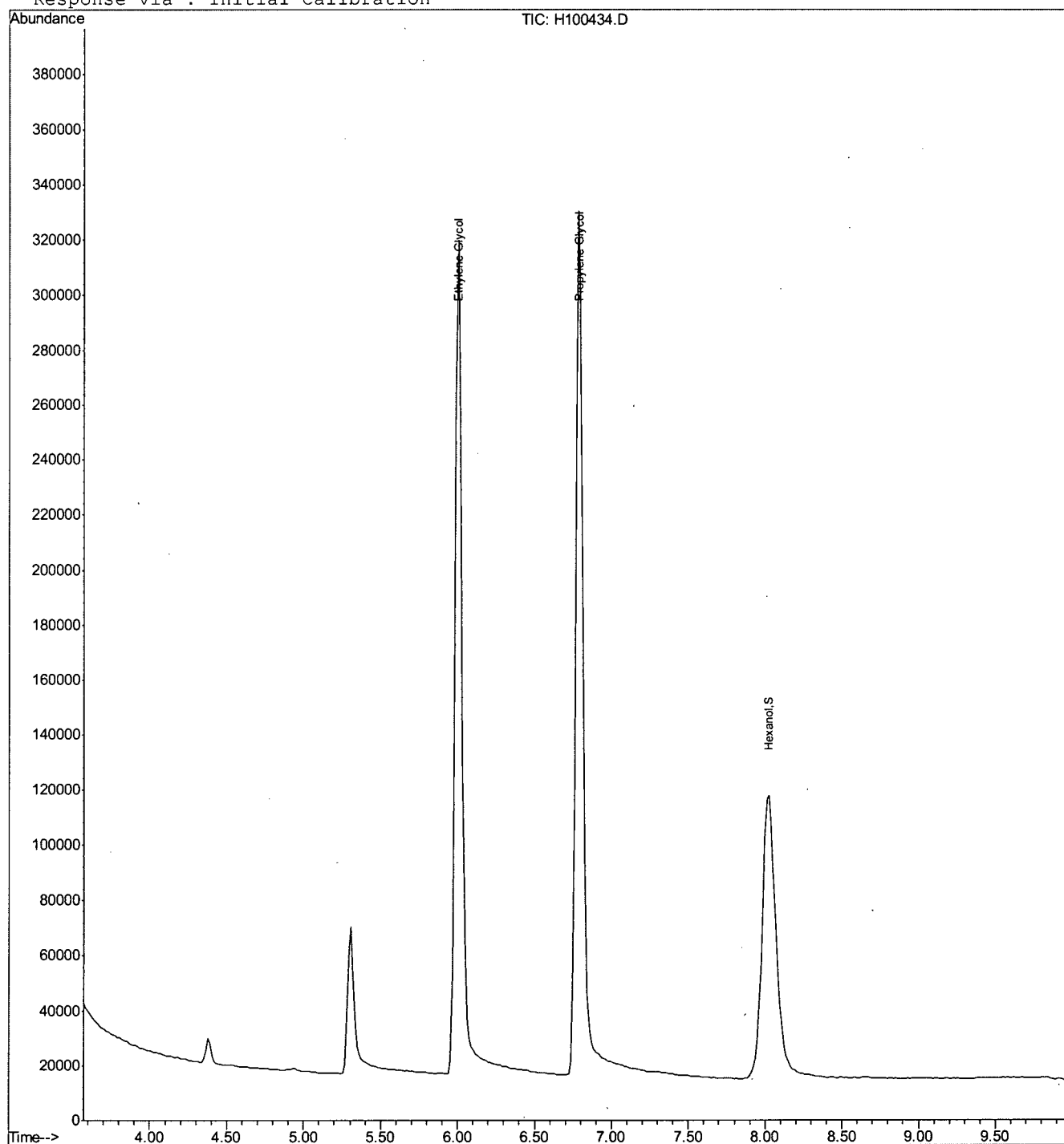
Quant Results File: M4362EPG.RES

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

Page 1

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

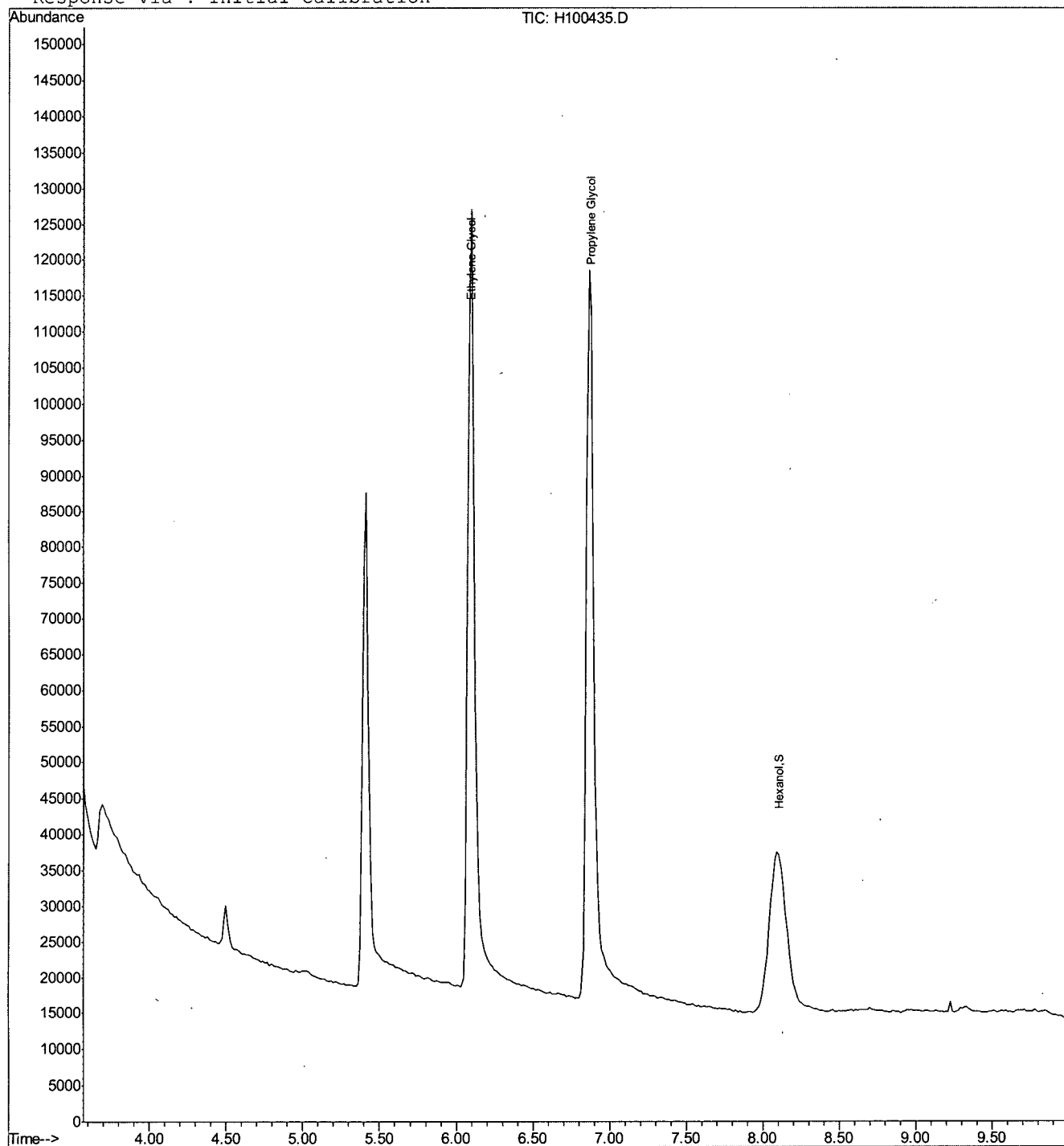
Quant Results File: M4362EPG.RES

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 : msl183,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

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

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Aug 27 16:20 2010

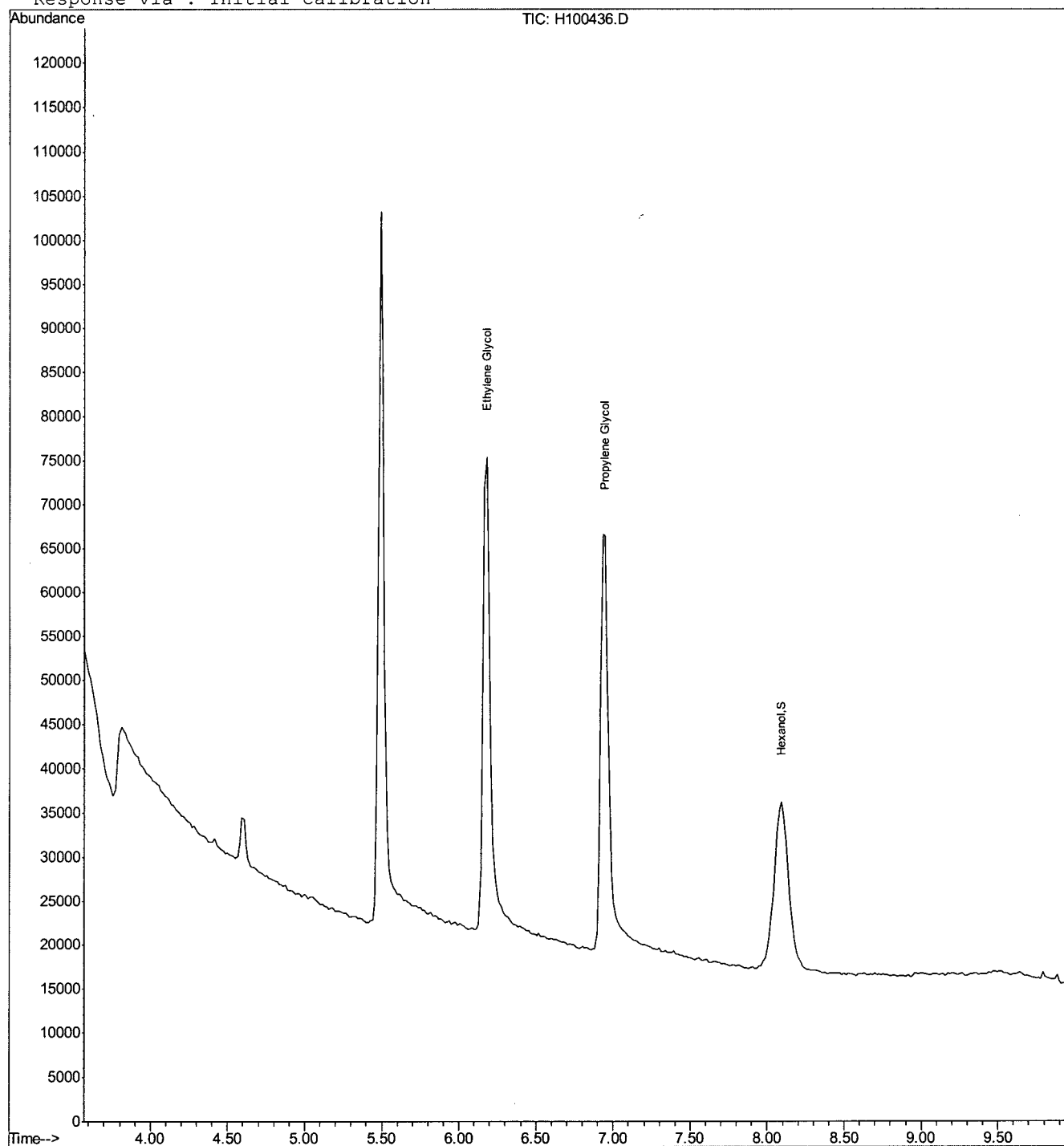
Quant Results File: M4362EPG.RES

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

Page 1

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

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Aug 27 16:48 2010

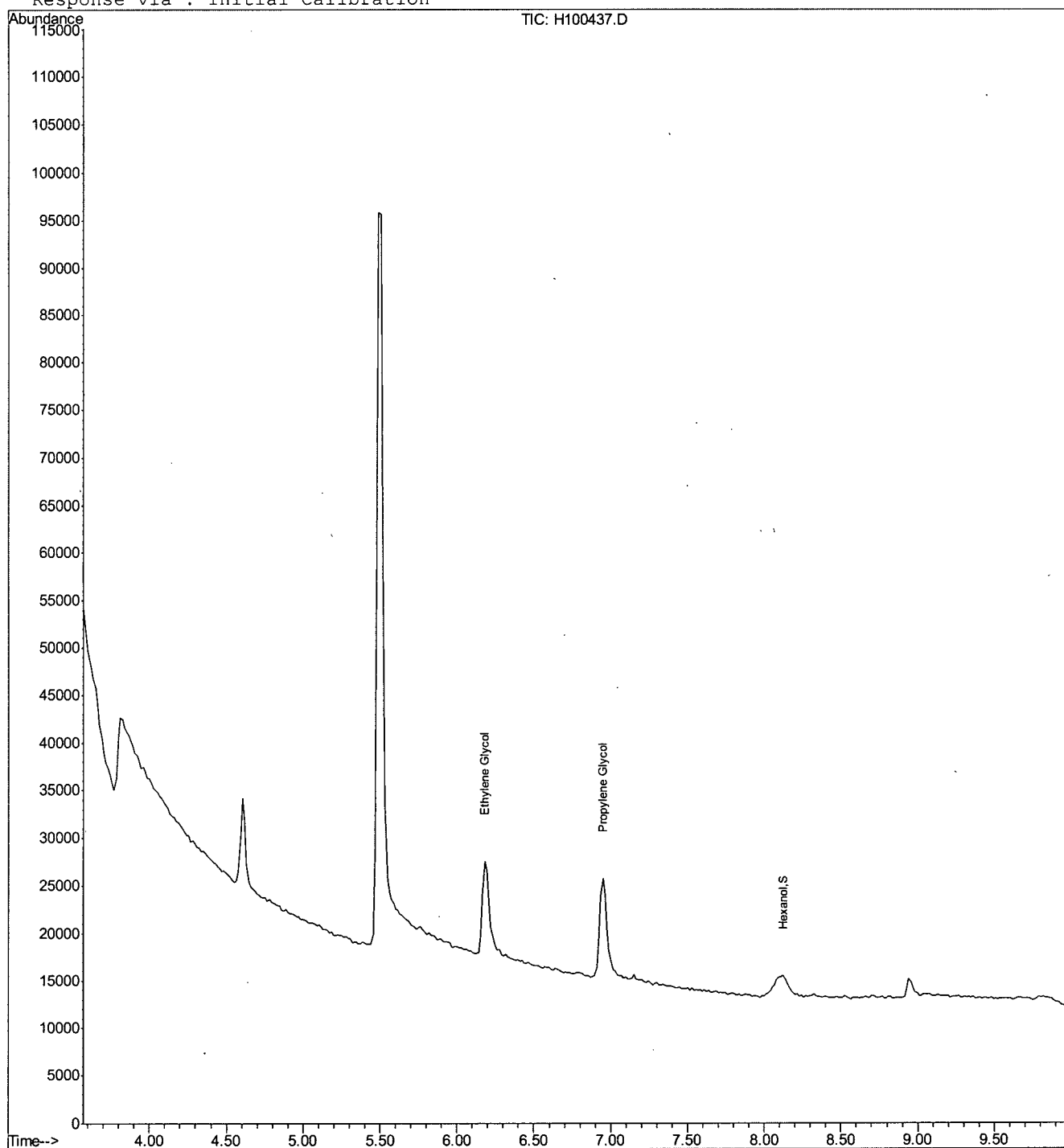
Quant Results File: M4362EPG.RES

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						Qvalue
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 : msl183,eh4362,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Aug 27 17:00 2010

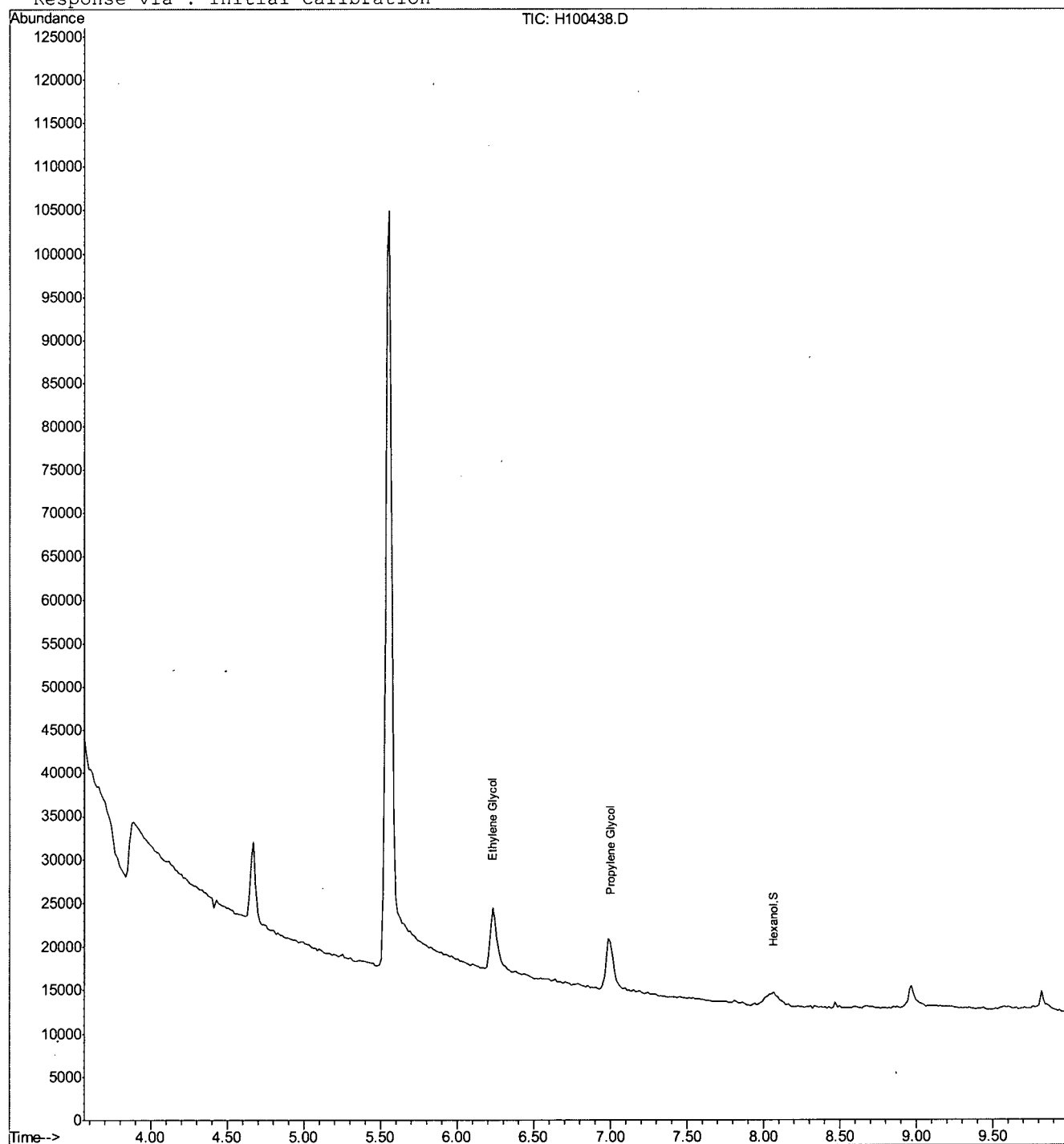
Quant Results File: M4362EPG.RES

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 : 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

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	#	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

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

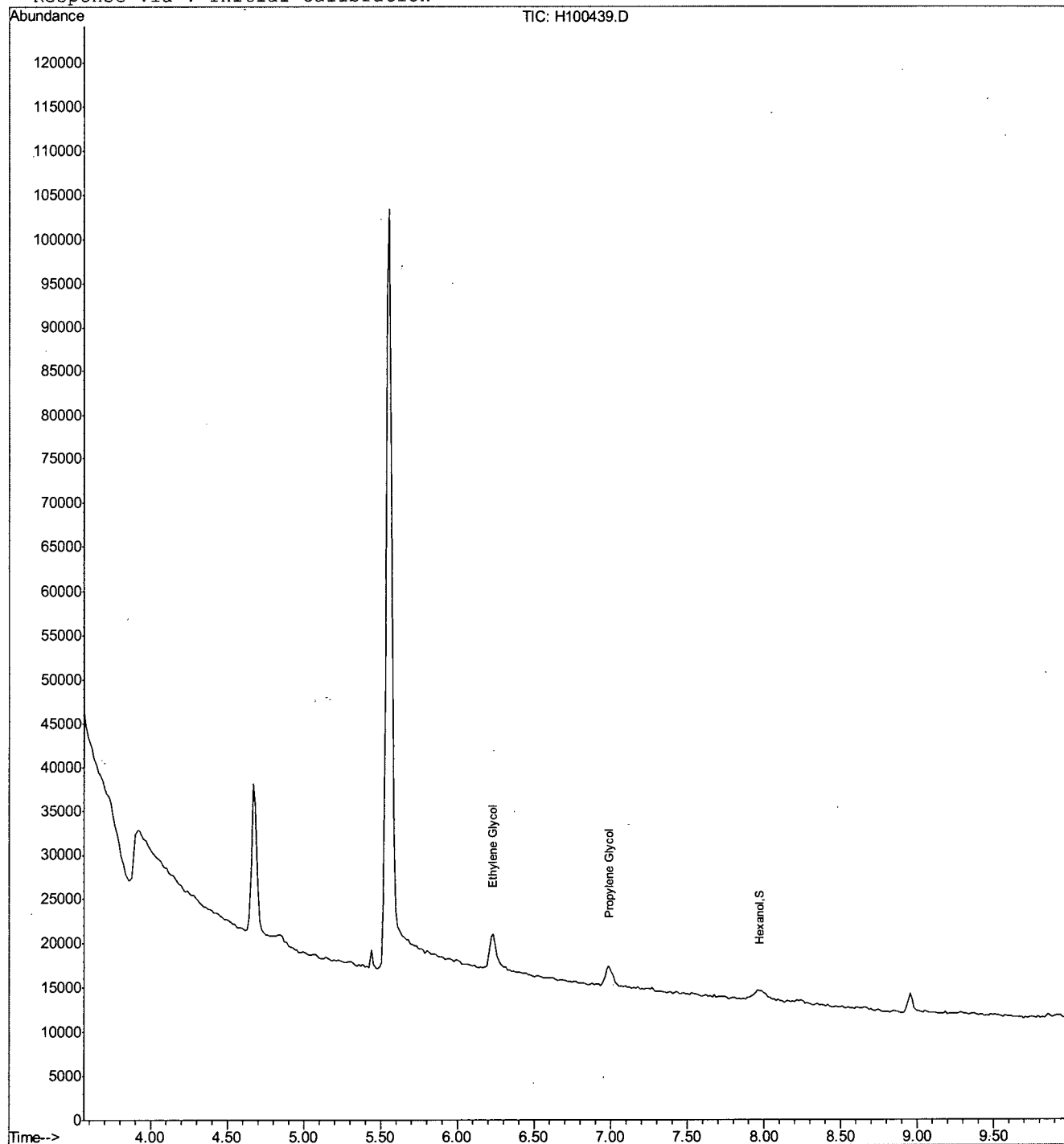
Quant Results File: M4362EPG.RES

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 : 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

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

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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

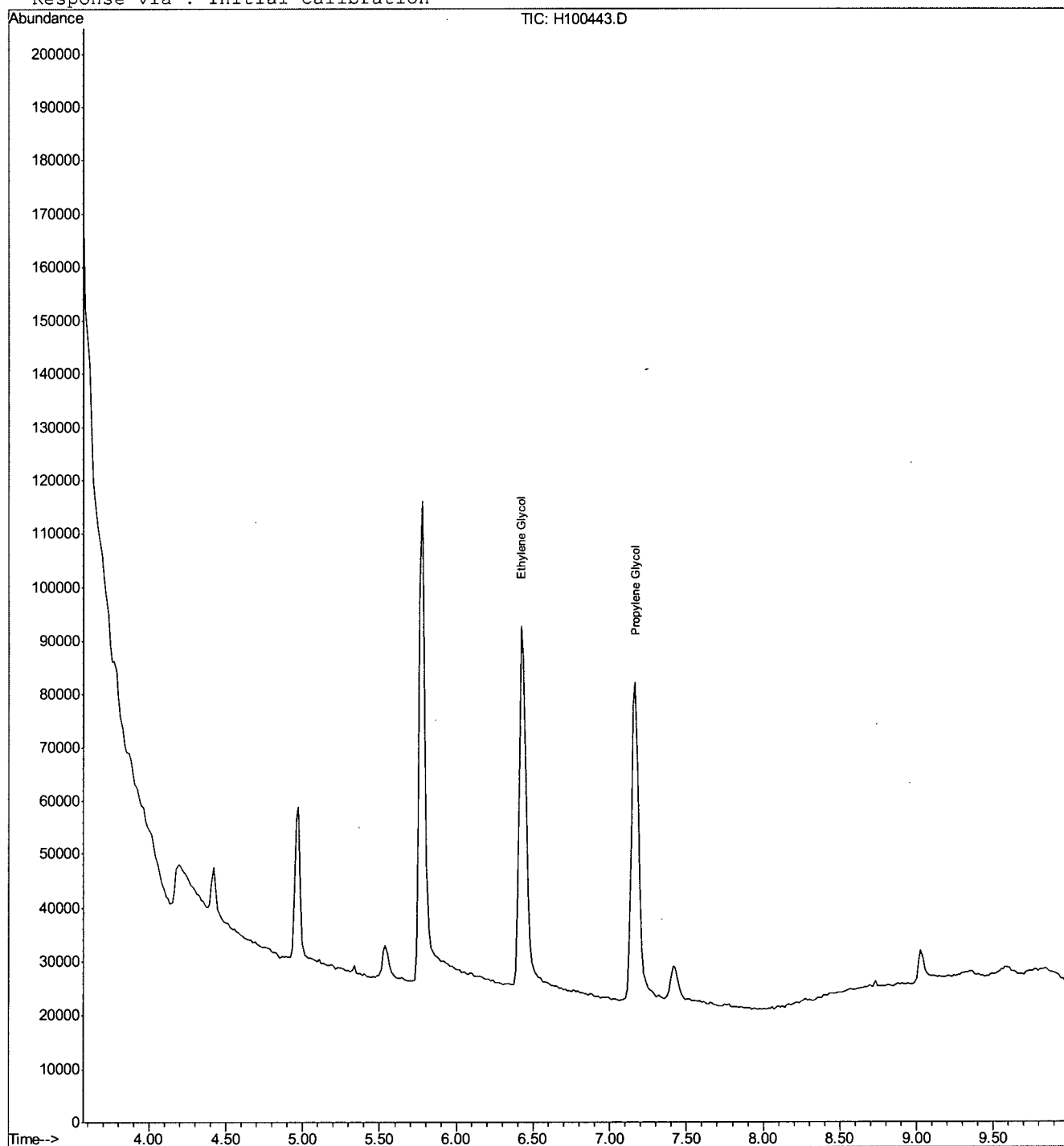
Quant Results File: M4362EPG.RES

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\EH4372\H100515.D Vial: 1
Acq On : 20 Oct 2010 4:17 pm Operator: kristis
Sample : cc4362-5 Inst : MSH
Misc : ms3383,eh4372,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 21 8:16 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	7.93	56	498259	4.89	ppm	0.00
Spiked Amount	50.000		Recovery	=	9.78%	
Target Compounds						
1) Ethylene Glycol	6.74	31	1271407	4.87	ppm	97
2) Propylene Glycol	7.42	45	1500862	5.28	ppm	98

(#) = qualifier out of range (m) = manual integration
H100515.D M4362EPG.M Thu Oct 21 08:17:10 2010 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4372\H100515.D

Vial: 1

Acq On : 20 Oct 2010 4:17 pm

Operator: kristis

Sample : cc4362-5

Inst : MSH

Misc : ms3383,eh4372,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 21 8:16 2010

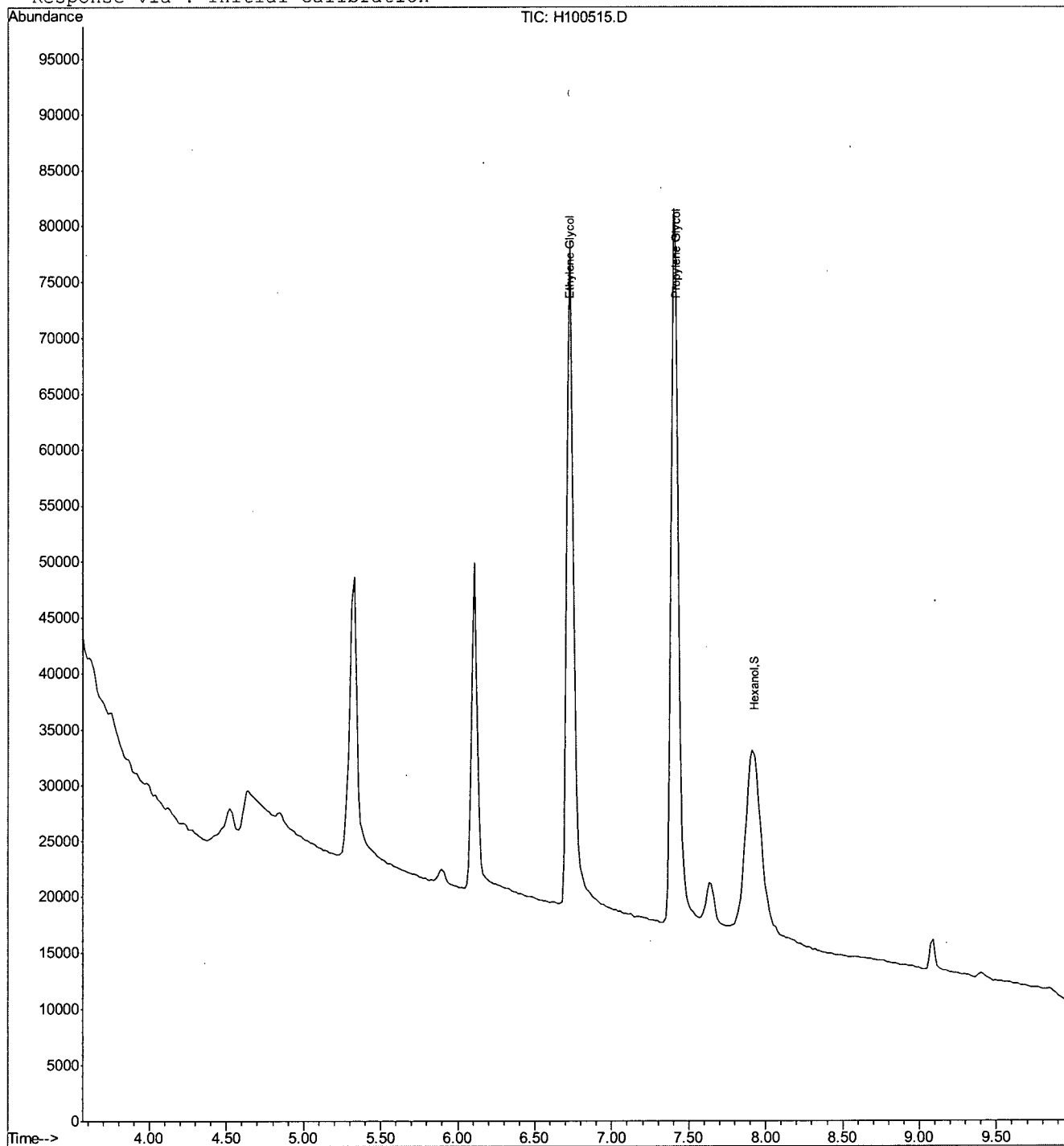
Quant Results File: M4362EPG.RES

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



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4374\H100572.D Vial: 1
Acq On : 26 Oct 2010 4:15 pm Operator: kristis
Sample : cc4362-5 Inst : MSH
Misc : ms3472,eh4374,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Nov 2 18:25 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)
Title : Ethylene Glycol Propylene Glycol
Last Update : Tue Nov 02 18:25:42 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	485244	4.76 ppm		0.00
Spiked Amount	50.000		Recovery	=	9.52%	
Target Compounds						
1) Ethylene Glycol	6.36	31	1458342	5.59 ppm		Qvalue 99
2) Propylene Glycol	7.08	45	1675849	5.90 ppm		98

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

H100572.D M4362EPG.M Tue Nov 02 18:26:02 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100572.D

Vial: 1

Acq On : 26 Oct 2010 4:15 pm

Operator: kristis

Sample : cc4362-5

Inst : MSH

Misc : ms3472,eh4374,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Nov 2 18:25 2010

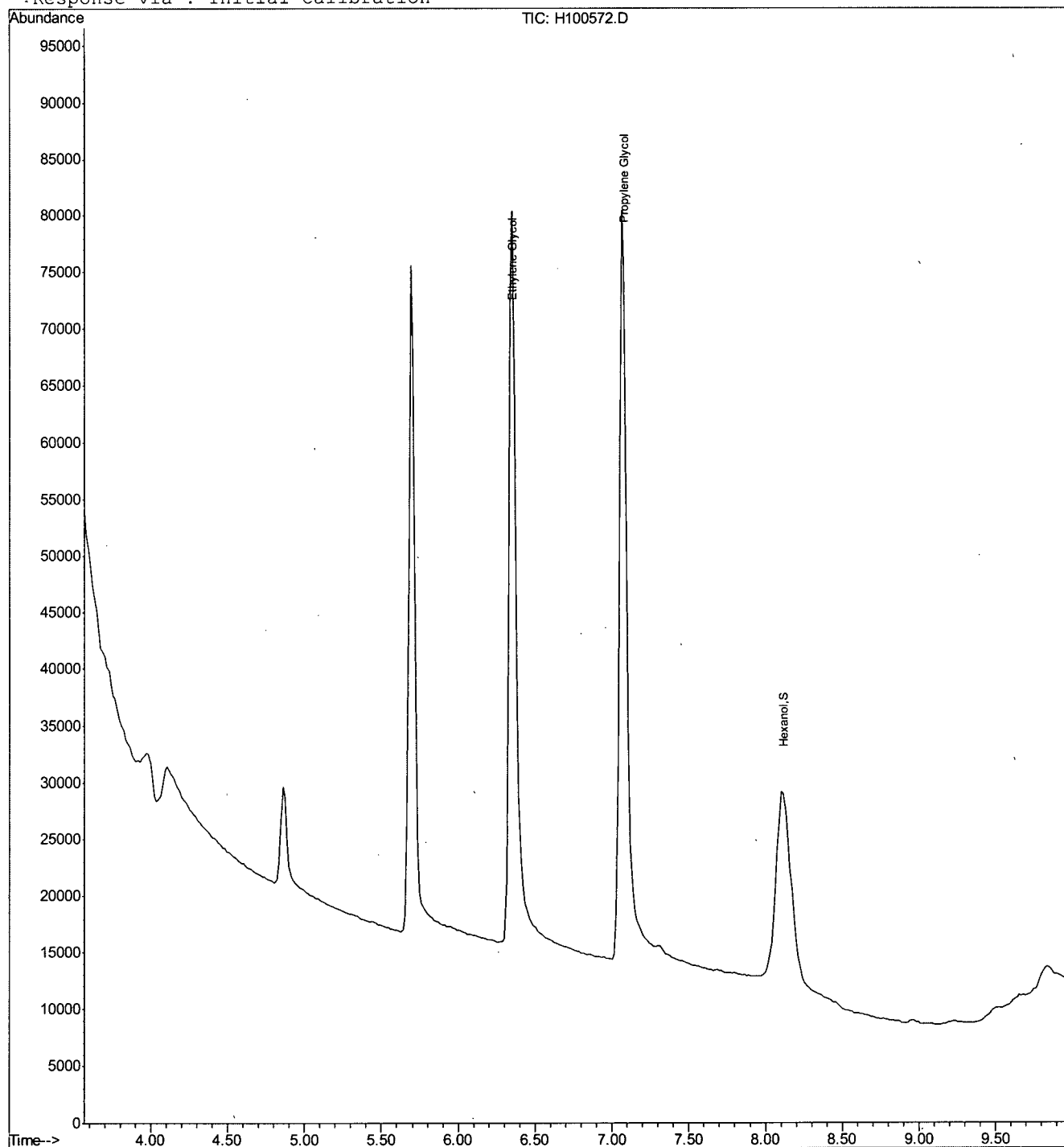
Quant Results File: M4362EPG.RES

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

Title : Ethylene Glycol Propylene Glycol

Last Update : Tue Nov 02 18:25:42 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH4374\H100588.D Vial: 1
Acq On : 27 Oct 2010 1:01 pm Operator: kristis
Sample : cc4362-5 Inst : MSH
Misc : ms3472,eh4374,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.E
Quant Time: Oct 27 13:09 2010 Quant Results File: M4362EPG.RES

Quant Method : C:\HPCHEM\1\METHODS\M4362EPG.M (Chemstation Integrator)
Title : Ethylene Glycol Propylene Glycol
Last Update : Wed Oct 27 13:09:31 2010
Response via : Initial Calibration
DataAcq Meth : M4362EPG

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

System Monitoring Compounds						
3) Hexanol	8.10	56	606922	5.95	ppm	0.15
Spiked Amount	50.000		Recovery	=	11.90%	
Target Compounds						
1) Ethylene Glycol	6.18	31	1061944	4.07	ppm	99
2) Propylene Glycol	6.91	45	1692874	5.96	ppm	97

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

H100588.D M4362EPG.M Tue Nov 02 18:07:21 2010 MSH

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH4374\H100588.D

Vial: 1

Acq On : 27 Oct 2010 1:01 pm

Operator: kristis

Sample : cc4362-5

Inst : MSH

Misc : ms3472,eh4374,1000,,,1,1

Multiplr: 1.00

MS Integration Params: LSCINT.E

Quant Time: Oct 27 13:09 2010

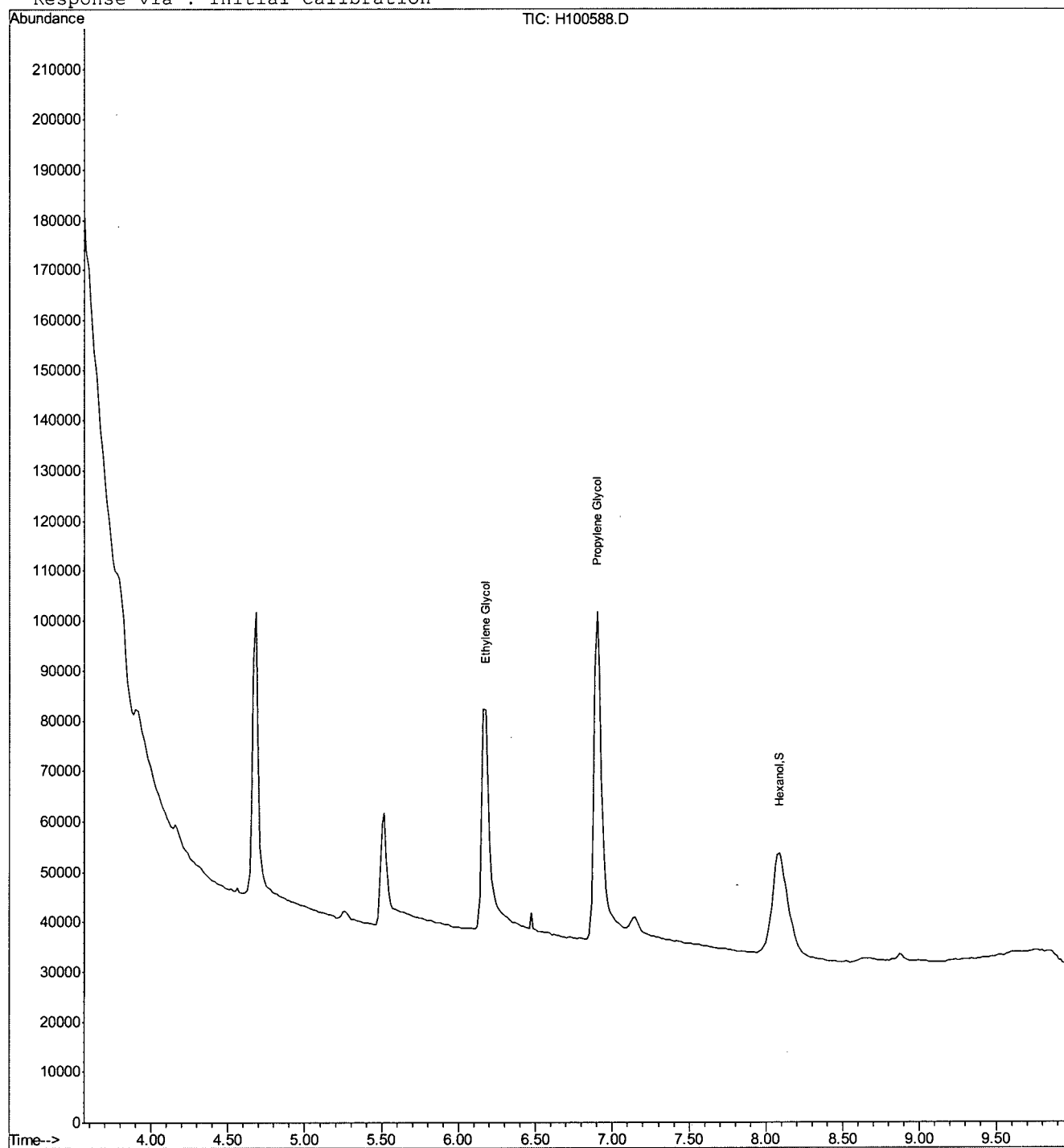
Quant Results File: M4362EPG.RES

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

Title : Ethylene Glycol Propylene Glycol

Last Update : Tue Nov 02 09:58:52 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105728.D
 Acq On : 4 Aug 2010 10:46 pm
 Operator : DONGMEI
 Sample : IC4452-0.5
 Misc : MS230,VV4452,5.0,,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 06 10:29:09 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 10:25:28 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.46	65	110912	500.00	ug/L	0.01
4) pentafluorobenzene	9.68	168	260604	50.00	ug/L	0.01
62) 1,4-difluorobenzene	10.62	114	421309	50.00	ug/L	0.00
93) chlorobenzene-d5	14.04	117	418767	50.00	ug/L	0.01
110) 1,4-dichlorobenzene-d4	16.66	152	195945	50.00	ug/L	0.01

System Monitoring Compounds

57) dibromofluoromethane (s)	9.74	113	2114	0.71	ug/L	0.01
Spiked Amount	50.000	Range	67 - 127	Recovery	=	1.42%#
58) 1,2-dichloroethane-d4 (s)	10.23	65	2134	0.71	ug/L	0.07
Spiked Amount	50.000	Range	65 - 132	Recovery	=	1.42%#
85) toluene-d8 (s)	12.43	98	7585	0.70	ug/L	0.08
Spiked Amount	50.000	Range	74 - 129	Recovery	=	1.40%#
109) 4-bromofluorobenzene (s)	15.45	95	6574	1.42	ug/L	0.11
Spiked Amount	50.000	Range	62 - 138	Recovery	=	2.84%#

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.61	59	1057	2.22	ug/L	100
14) dichlorodifluoromethane	4.25	85	1367	0.44	ug/L #	50
15) chloromethane	4.55	50	2530	0.52	ug/L	91
19) trichlorofluoromethane	5.99	101	716	0.19	ug/L	65
21) ethyl ether	6.44	74	524	0.32	ug/L #	45
27) acrolein	6.63	56	1145172	2168.95	ug/L	100
29) 1,1-dichloroethene	6.84	96	1117	0.44	ug/L #	25
34) iodomethane	7.10	142	1822	0.35	ug/L	80
35) carbon disulfide	7.22	76	3247	0.41	ug/L	71
36) methylene chloride	7.52	84	4408	1.17	ug/L #	67
38) methyl tert butyl ether	7.85	73	4797	0.54	ug/L	66
39) trans-1,2-dichloroethene	7.89	96	1208	0.41	ug/L #	34
40) di-isopropyl ether	8.43	45	5074	0.49	ug/L	87
42) 1,1-dichloroethane	8.45	63	1924	0.38	ug/L	82
46) ethyl tert-butyl ether	8.91	59	4770	0.49	ug/L	95
49) cis-1,2-dichloroethene	9.23	96	1238	0.37	ug/L #	21
55) chloroform	9.55	83	2555	0.51	ug/L	84
59) 1,1,1-trichloroethane	9.78	97	1557	0.42	ug/L #	1
60) Cyclohexane	9.88	84	1965	0.54	ug/L #	1
63) methylcyclohexane	11.23	83	1664	0.38	ug/L #	21
68) hexane	8.18	57	6265	1.92	ug/L	87
70) benzene	10.30	78	4937	0.43	ug/L	96
71) tert-amyl methyl ether	10.29	73	5953	0.59	ug/L #	72
74) 1,2-dichloroethane	10.32	62	672	0.21	ug/L #	75
75) trichloroethene	11.03	95	1249	0.43	ug/L #	51
77) tert-Amyl Ethyl Ether	11.17	87	1331	0.27	ug/L	58
81) 1,2-dichloropropane	11.29	63	1471	0.46	ug/L	50
82) dibromomethane	11.47	93	628	0.36	ug/L #	74
83) bromodichloromethane	11.57	83	1614	0.41	ug/L #	59
84) cis-1,3-dichloropropene	12.11	75	2130	0.42	ug/L #	40
87) toluene	12.54	92	7870	0.96	ug/L #	46
91) 1,1,2-trichloroethane	12.92	83	1162	0.49	ug/L #	64
94) tetrachloroethene	13.12	166	1589	0.36	ug/L	77

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105728.D
 Acq On : 4 Aug 2010 10:46 pm
 Operator : DONGMEI
 Sample : IC4452-0.5
 Misc : MS230,VV4452,5.0,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 06 10:29:09 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 10:25:28 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,3-dichloropropane	13.14	76	1949	0.42	ug/L #	58
98) dibromochloromethane	13.42	129	1400	0.38	ug/L	78
99) 1,2-dibromoethane	13.65	107	862	0.29	ug/L	82
100) chlorobenzene	14.08	112	3557	0.38	ug/L	73
101) 1,1,1,2-tetrachloroethane	14.16	131	1233	0.36	ug/L #	45
102) ethylbenzene	14.21	91	6553	0.47	ug/L	89
103) m,p-xylene	14.36	106	5036	0.88	ug/L	81
104) o-xylene	14.81	106	2659	0.45	ug/L	70
105) styrene	14.90	104	4559	0.44	ug/L	64
111) isopropylbenzene	15.18	105	5670	0.44	ug/L	92
112) bromobenzene	15.64	156	1788	0.44	ug/L #	42
113) 1,1,2,2-tetrachloroethane	15.49	83	2481	0.75	ug/L	95
116) n-propylbenzene	15.65	91	7056	0.48	ug/L	94
118) 2-chlorotoluene	15.81	126	1454	0.42	ug/L #	38
119) 4-chlorotoluene	15.95	91	3205	0.33	ug/L	88
121) tert-butylbenzene	16.16	119	3497	0.39	ug/L	98
122) pentachloroethane	16.23	167	725	0.37	ug/L #	72
123) 1,2,4-trimethylbenzene	16.23	105	5771	0.53	ug/L	90
124) sec-butylbenzene	16.40	105	5928	0.45	ug/L	90
125) 1,3-dichlorobenzene	16.62	146	2636	0.39	ug/L #	59
126) p-isopropyltoluene	16.57	119	4648	0.43	ug/L	85
128) 1,4-dichlorobenzene	16.71	146	4254	0.56	ug/L	91
129) 1,2-dichlorobenzene	17.20	146	3334	0.49	ug/L	81
132) 1,4-Diethylbenzene	17.04	119	2477	0.39	ug/L #	71
133) n-butylbenzene	17.09	92	1341	0.27	ug/L #	29
134) 1,2,4,5-tetramethylbenzene	17.91	119	2893	0.28	ug/L	97
136) 1,3,5-trichlorobenzene	18.28	180	2434	0.48	ug/L #	66
137) 1,2,4-trichlorobenzene	19.02	180	1730	0.39	ug/L	79
138) hexachlorobutadiene	19.06	225	942	0.37	ug/L #	71
139) naphthalene	19.41	128	4302	0.53	ug/L	81
140) 1,2,3-trichlorobenzene	19.62	180	2017	0.50	ug/L #	63

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

6.6.13
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105729.D
 Acq On : 4 Aug 2010 11:17 pm
 Operator : DONGMEI
 Sample : IC4452-1
 Misc : MS230,VV4452,5.0,,,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 06 10:31:00 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 10:17:30 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.47	65	96201	500.00	ug/L	0.02
4) pentafluorobenzene	9.68	168	272922	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.62	114	436612	50.00	ug/L	0.00
93) chlorobenzene-d5	14.04	117	423479	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.66	152	203388	50.00	ug/L	0.01

System Monitoring Compounds

57) dibromofluoromethane (s)	9.76	113	3540	1.13	ug/L	0.03
Spiked Amount	50.000	Range	67 - 127	Recovery	=	2.26%#
58) 1,2-dichloroethane-d4 (s)	10.21	65	3373	1.07	ug/L	0.06
Spiked Amount	50.000	Range	65 - 132	Recovery	=	2.14%#
85) toluene-d8 (s)	12.42	98	11700	1.04	ug/L	0.07
Spiked Amount	50.000	Range	74 - 129	Recovery	=	2.08%#
109) 4-bromofluorobenzene (s)	15.43	95	7965	1.70	ug/L	0.09
Spiked Amount	50.000	Range	62 - 138	Recovery	=	3.40%#

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.62	59	2340	5.67	ug/L	100
14) dichlorodifluoromethane	4.27	85	3691	1.15	ug/L	78
15) chloromethane	4.55	50	6143	1.21	ug/L	93
16) vinyl chloride	4.76	62	4522	1.10	ug/L	91
17) bromomethane	5.41	96	4338	1.45	ug/L	92
18) chloroethane	5.58	64	2813	1.11	ug/L	89
19) trichlorofluoromethane	5.98	101	3584	0.92	ug/L	95
21) ethyl ether	6.43	74	1465	0.85	ug/L	93
27) acrolein	6.63	56	569793	1030.48	ug/L	99
28) freon 113	6.76	151	1546	0.79	ug/L #	52
29) 1,1-dichloroethene	6.82	96	2860	1.08	ug/L	78
34) iodomethane	7.09	142	4838	0.88	ug/L	98
35) carbon disulfide	7.24	76	7629	0.92	ug/L	96
36) methylene chloride	7.51	84	4937	1.25	ug/L	87
38) methyl tert butyl ether	7.84	73	9519	1.02	ug/L #	74
39) trans-1,2-dichloroethene	7.90	96	3238	1.06	ug/L #	84
40) di-isopropyl ether	8.43	45	12196	1.13	ug/L	93
42) 1,1-dichloroethane	8.45	63	4635	0.89	ug/L	81
43) chloroprene	8.59	53	3367	0.94	ug/L	80
46) ethyl tert-butyl ether	8.88	59	9915	0.96	ug/L	94
48) 2,2-dichloropropane	9.18	77	3956	1.04	ug/L	96
49) cis-1,2-dichloroethene	9.23	96	3302	0.95	ug/L #	54
53) bromochloromethane	9.50	128	1561	0.90	ug/L #	74
55) chloroform	9.54	83	5236	1.00	ug/L	96
56) tert-Butyl Formate	9.59	59	1862	0.81	ug/L #	76
59) 1,1,1-trichloroethane	9.80	97	3558	0.91	ug/L #	56
60) Cyclohexane	9.87	84	3883	1.02	ug/L #	22
61) Tert Amyl Alcohol	10.07	55	511	6.23	ug/L #	1
63) methylcyclohexane	11.22	83	5020	1.10	ug/L	91
65) n-butyl alcohol	10.62	56	7162	86.35	ug/L #	27
66) carbon tetrachloride	10.00	117	3049	0.94	ug/L #	67
67) 1,1-dichloropropene	10.01	75	3041	0.89	ug/L	83
68) hexane	8.20	57	7383	2.18	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105729.D
 Acq On : 4 Aug 2010 11:17 pm
 Operator : DONGMEI
 Sample : IC4452-1
 Misc : MS230,VV4452,5.0,,,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 06 10:31:00 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 10:17:30 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) 2,2,4-Trimethylpentane	10.25	57	10665	1.11	ug/L #	97
70) benzene	10.28	78	11167	0.95	ug/L	97
71) tert-amyl methyl ether	10.29	73	11466	1.09	ug/L	93
74) 1,2-dichloroethane	10.30	62	3088	0.93	ug/L	82
75) trichloroethene	11.00	95	3025	0.99	ug/L #	68
77) tert-Amyl Ethyl Ether	11.16	87	5346	1.05	ug/L	92
79) 2-chloroethyl vinyl ether	11.94	63	4399	3.41	ug/L #	44
81) 1,2-dichloropropane	11.27	63	2979	0.91	ug/L	94
82) dibromomethane	11.45	93	1535	0.84	ug/L #	81
83) bromodichloromethane	11.58	83	3956	0.96	ug/L	88
84) cis-1,3-dichloropropene	12.08	75	4816	0.91	ug/L	81
87) toluene	12.50	92	9560	1.12	ug/L	91
89) trans-1,3-dichloropropene	12.73	75	3916	0.87	ug/L	95
91) 1,1,2-trichloroethane	12.92	83	2165	0.88	ug/L	90
94) tetrachloroethene	13.11	166	3903	0.87	ug/L	88
95) 1,3-dichloropropane	13.14	76	4099	0.87	ug/L #	68
98) dibromochloromethane	13.41	129	3615	0.98	ug/L	95
99) 1,2-dibromoethane	13.64	107	2652	0.89	ug/L	87
100) chlorobenzene	14.09	112	8781	0.93	ug/L	93
101) 1,1,1,2-tetrachloroethane	14.15	131	3224	0.93	ug/L #	62
102) ethylbenzene	14.19	91	13127	0.93	ug/L	92
103) m,p-xylene	14.34	106	10716	1.86	ug/L	87
104) o-xylene	14.79	106	5373	0.91	ug/L	81
105) styrene	14.87	104	9435	0.90	ug/L	67
107) bromoform	15.07	173	1775	0.68	ug/L	83
108) cyclohexanone	15.41	55	1894	10.73	ug/L	74
111) isopropylbenzene	15.15	105	12764	0.95	ug/L	93
112) bromobenzene	15.65	156	3710	0.89	ug/L #	67
113) 1,1,2,2-tetrachloroethane	15.48	83	3478	1.01	ug/L	99
115) 1,2,3-trichloropropane	15.58	110	744	0.82	ug/L #	36
116) n-propylbenzene	15.62	91	14254	0.94	ug/L	90
117) 4-Ethyltoluene	15.73	105	11400	0.90	ug/L	89
118) 2-chlorotoluene	15.80	126	3339	0.93	ug/L #	57
119) 4-chlorotoluene	15.92	91	10535	1.04	ug/L	86
120) 1,3,5-trimethylbenzene	15.77	105	10049	0.80	ug/L	79
121) tert-butylbenzene	16.15	119	8258	0.88	ug/L	95
122) pentachloroethane	16.24	167	1838	0.91	ug/L	95
123) 1,2,4-trimethylbenzene	16.22	105	11265	0.99	ug/L	99
124) sec-butylbenzene	16.39	105	13241	0.97	ug/L	94
125) 1,3-dichlorobenzene	16.62	146	6078	0.87	ug/L	98
126) p-isopropyltoluene	16.55	119	10092	0.91	ug/L	89
128) 1,4-dichlorobenzene	16.70	146	8248	1.05	ug/L	96
129) 1,2-dichlorobenzene	17.19	146	6610	0.94	ug/L	90
130) Benzyl Chloride	16.88	91	923	0.21	ug/L	93
132) 1,4-Diethylbenzene	17.00	119	6339	0.95	ug/L	99
133) n-butylbenzene	17.08	92	4231	0.81	ug/L #	46
134) 1,2,4,5-tetramethylbenzene	17.87	119	10002	0.95	ug/L	94
136) 1,3,5-trichlorobenzene	18.27	180	4575	0.86	ug/L	83
137) 1,2,4-trichlorobenzene	19.02	180	3728	0.80	ug/L	77
138) hexachlorobutadiene	19.05	225	1024	0.39	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
Data File : v105729.D
Acq On : 4 Aug 2010 11:17 pm
Operator : DONGMEI
Sample : IC4452-1
Misc : MS230,VV4452,5.0,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 06 10:31:00 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 06 10:17:30 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
139) naphthalene	19.41	128.	5907	0.70	ug/L	81
140) 1,2,3-trichlorobenzene	19.61	180	3249	0.78	ug/L	88
141) hexachloroethane	17.42	201	897	0.40	ug/L #	32

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

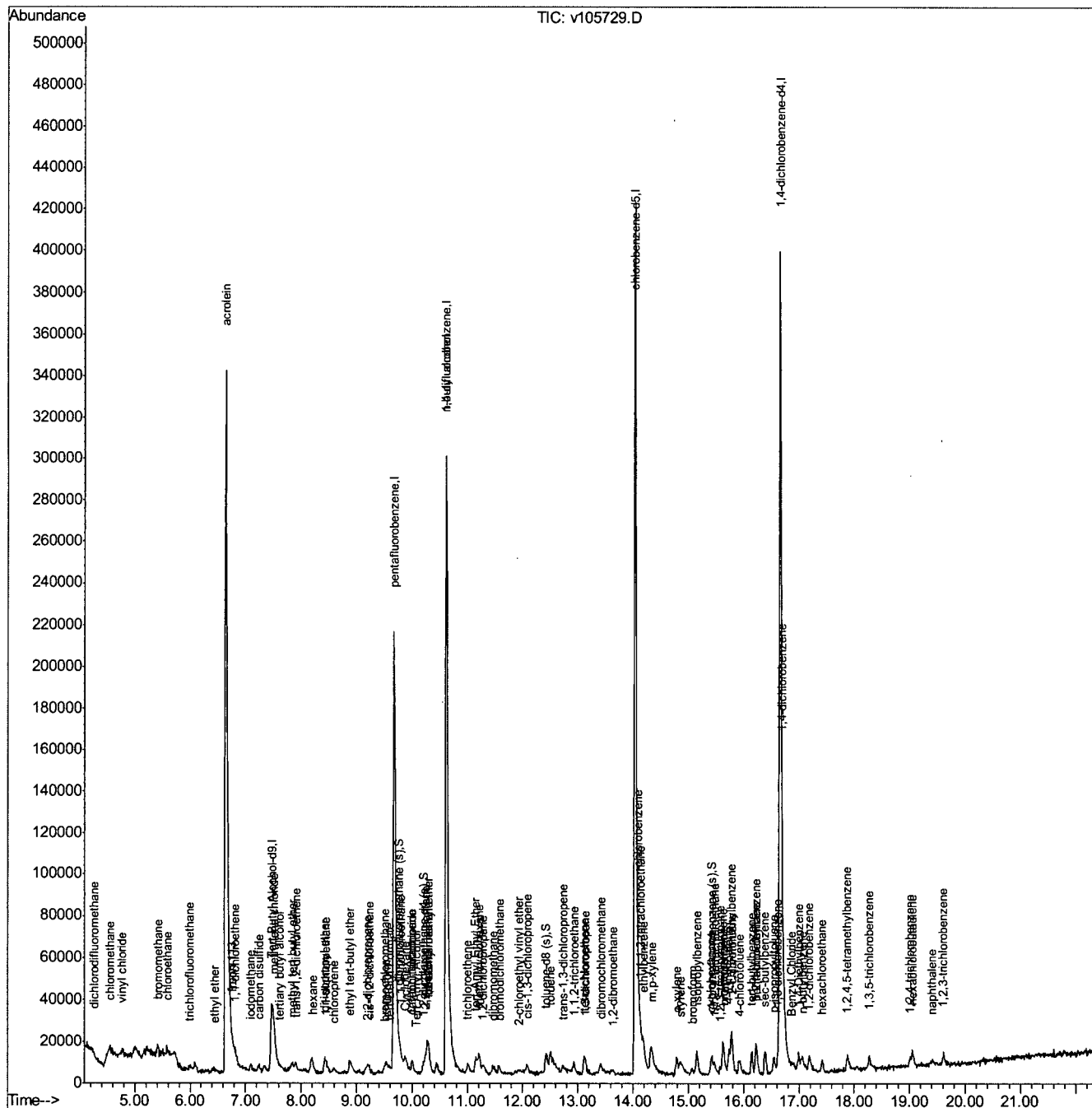
6.6.14

6

Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\av4452\  
Data File   : v105729.D  
Acq On      : 4 Aug 2010 11:17 pm  
Operator    : DONGMEI  
Sample      : IC4452-1  
Misc        : MS230,VV4452,5.0,,,,,1  
ALS Vial    : 15 Sample Multiplier: 1
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Quant Time: Aug 06 10:31:00 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 06 10:17:30 2010
Response via : Initial Calibration



MVS4452.M Fri Aug 06 18:43:24 2010 RPT1

Page: 4

6.6.14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105730.D
 Acq On : 4 Aug 2010 11:49 pm
 Operator : DONGMEI
 Sample : IC4452-2
 Misc : MS230,VV4452,5.0,,,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 06 10:05:02 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 10:02:56 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.48	65	100814	500.00	ug/L	0.03
4) pentafluorobenzene	9.68	168	279262	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.62	114	446481	50.00	ug/L	0.00
93) chlorobenzene-d5	14.04	117	429258	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.66	152	205326	50.00	ug/L	0.01

System Monitoring Compounds

57) dibromofluoromethane (s)	9.75	113	5736	1.79	ug/L	0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	3.58%#	
58) 1,2-dichloroethane-d4 (s)	10.21	65	6233	1.93	ug/L	0.06
Spiked Amount	50.000	Range 65 - 132	Recovery	=	3.86%#	
85) toluene-d8 (s)	12.41	98	21132	1.84	ug/L	0.06
Spiked Amount	50.000	Range 74 - 129	Recovery	=	3.68%#	
109) 4-bromofluorobenzene (s)	15.41	95	11169	2.36	ug/L	0.07
Spiked Amount	50.000	Range 62 - 138	Recovery	=	4.72%#	

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.62	59	4630	10.70	ug/L #	100
3) 1,4-dioxane	11.45	88	947	30.27	ug/L #	27
13) chlorodifluoromethane	4.25	51	5315	2.22	ug/L	88
14) dichlorodifluoromethane	4.23	85	5887	1.79	ug/L	92
15) chloromethane	4.55	50	9730	1.87	ug/L	98
16) vinyl chloride	4.78	62	7810	1.85	ug/L	90
17) bromomethane	5.41	96	6457	2.10	ug/L	77
18) chloroethane	5.59	64	5448	2.10	ug/L	87
19) trichlorofluoromethane	6.00	101	7241	1.82	ug/L	95
21) ethyl ether	6.42	74	2834	1.60	ug/L #	74
27) acrolein	6.71	56	20974	37.07	ug/L	92
28) freon 113	6.77	151	3906	1.96	ug/L	97
29) 1,1-dichloroethene	6.83	96	5332	1.97	ug/L	91
31) iso-butyl alcohol	10.29	74	1861	18.12	ug/L #	46
32) allyl chloride	7.33	78	1189	2.04	ug/L #	16
34) iodomethane	7.10	142	10598	1.88	ug/L	84
35) carbon disulfide	7.24	76	15628	1.84	ug/L	90
36) methylene chloride	7.52	84	8914	2.20	ug/L	96
38) methyl tert butyl ether	7.84	73	16851	1.76	ug/L	74
39) trans-1,2-dichloroethene	7.90	96	5674	1.81	ug/L	95
40) di-isopropyl ether	8.44	45	19888	1.79	ug/L	92
42) 1,1-dichloroethane	8.44	63	10137	1.89	ug/L	98
43) chloroprene	8.60	53	7021	1.92	ug/L	88
44) acrylonitrile	7.97	53	6657	7.12	ug/L	93
46) ethyl tert-butyl ether	8.88	59	18931	1.80	ug/L	92
48) 2,2-dichloropropane	9.17	77	8233	2.12	ug/L	93
49) cis-1,2-dichloroethene	9.19	96	6371	1.79	ug/L	82
50) propionitrile	9.36	54	5919	15.65	ug/L	67
53) bromochloromethane	9.50	128	2875	1.63	ug/L	89
55) chloroform	9.54	83	9794	1.83	ug/L	96
56) tert-Butyl Formate	9.59	59	4063	1.73	ug/L #	65
59) 1,1,1-trichloroethane	9.80	97	6987	1.75	ug/L #	65
60) Cyclohexane	9.87	84	8175	2.09	ug/L #	38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105730.D
 Acq On : 4 Aug 2010 11:49 pm
 Operator : DONGMEI
 Sample : IC4452-2
 Misc : MS230,VV4452,5.0,,,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 06 10:05:02 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 10:02:56 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
63) methylcyclohexane	11.22	83	9272	1.99	ug/L	89
66) carbon tetrachloride	10.02	117	6340	1.90	ug/L	80
67) 1,1-dichloropropene	10.01	75	6263	1.80	ug/L	93
68) hexane	8.18	57	11612	3.36	ug/L	97
69) 2,2,4-Trimethylpentane	10.24	57	18531	1.89	ug/L #	91
70) benzene	10.27	78	24078	2.00	ug/L	95
71) tert-amyl methyl ether	10.29	73	22374	2.09	ug/L	93
72) heptane	10.44	57	4242	2.25	ug/L #	81
73) isopropyl acetate	10.24	61	1136	0.93	ug/L #	1
74) 1,2-dichloroethane	10.28	62	5214	1.54	ug/L	88
75) trichloroethene	11.01	95	5647	1.82	ug/L	97
77) tert-Amyl Ethyl Ether	11.15	87	9466	1.82	ug/L	94
79) 2-chloroethyl vinyl ether	11.89	63	7735	5.87	ug/L	98
81) 1,2-dichloropropane	11.28	63	6299	1.87	ug/L	92
82) dibromomethane	11.44	93	3344	1.79	ug/L #	75
83) bromodichloromethane	11.57	83	7597	1.80	ug/L	97
84) cis-1,3-dichloropropene	12.07	75	10190	1.89	ug/L	89
87) toluene	12.48	92	19852	2.28	ug/L	86
89) trans-1,3-dichloropropene	12.71	75	8259	1.78	ug/L	67
91) 1,1,2-trichloroethane	12.91	83	4861	1.93	ug/L	94
94) tetrachloroethene	13.10	166	8972	1.97	ug/L	87
95) 1,3-dichloropropane	13.11	76	8604	1.81	ug/L	81
98) dibromochloromethane	13.41	129	6721	1.79	ug/L	90
99) 1,2-dibromoethane	13.60	107	5161	1.72	ug/L	89
100) chlorobenzene	14.09	112	17107	1.78	ug/L	84
101) 1,1,1,2-tetrachloroethane	14.14	131	6227	1.77	ug/L #	67
102) ethylbenzene	14.17	91	26538	1.85	ug/L	96
103) m,p-xylene	14.30	106	21726	3.72	ug/L	92
104) o-xylene	14.77	106	10688	1.78	ug/L	95
105) styrene	14.83	104	18430	1.74	ug/L	86
107) bromoform	15.06	173	4010	1.52	ug/L	84
108) cyclohexanone	15.38	55	3826	21.39	ug/L	69
111) isopropylbenzene	15.14	105	25577	1.89	ug/L	91
112) bromobenzene	15.62	156	7584	1.80	ug/L	91
113) 1,1,2,2-tetrachloroethane	15.47	83	6396	1.84	ug/L	93
114) trans-1,4-dichloro-2-buten	15.59	53	850	1.23	ug/L #	67
115) 1,2,3-trichloropropane	15.55	110	1578	1.73	ug/L #	75
116) n-propylbenzene	15.61	91	31790	2.08	ug/L	94
117) 4-Ethyltoluene	15.72	105	21817	1.70	ug/L	94
118) 2-chlorotoluene	15.77	126	7259	2.01	ug/L #	70
119) 4-chlorotoluene	15.90	91	19142	1.87	ug/L	93
120) 1,3,5-trimethylbenzene	15.76	105	23728	1.87	ug/L	72
121) tert-butylbenzene	16.14	119	17787	1.87	ug/L	95
122) pentachloroethane	16.23	167	3048	1.49	ug/L	92
123) 1,2,4-trimethylbenzene	16.21	105	22772	1.98	ug/L	91
124) sec-butylbenzene	16.39	105	24419	1.77	ug/L	96
125) 1,3-dichlorobenzene	16.61	146	13281	1.88	ug/L	90
126) p-isopropyltoluene	16.53	119	21464	1.91	ug/L	91
128) 1,4-dichlorobenzene	16.70	146	15706	1.99	ug/L	95
129) 1,2-dichlorobenzene	17.17	146	12301	1.73	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
Data File : v105730.D
Acq On : 4 Aug 2010 11:49 pm
Operator : DONGMEI
Sample : IC4452-2
Misc : MS230,VV4452,5.0,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 06 10:05:02 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 06 10:02:56 2010
Response via : Initial Calibration

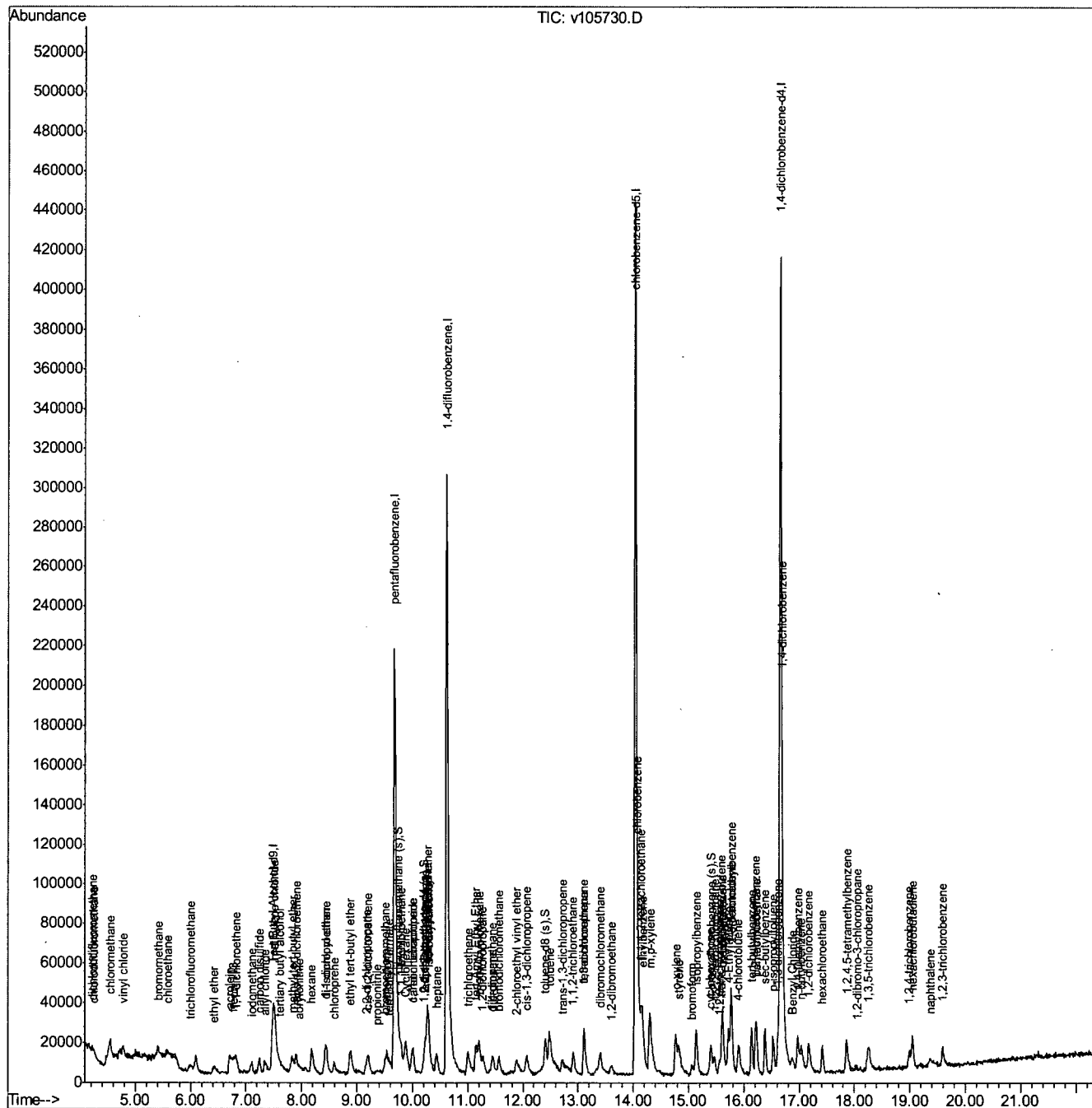
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
130) Benzyl Chloride	16.88	91	7455	1.69	ug/L	91
132) 1,4-Diethylbenzene	16.98	119	11446	1.71	ug/L	90
133) n-butylbenzene	17.04	92	8811	1.66	ug/L	78
134) 1,2,4,5-tetramethylbenzene	17.87	119	18723	1.76	ug/L	91
135) 1,2-dibromo-3-chloropropan	18.04	75	732	1.42	ug/L #	61
136) 1,3,5-trichlorobenzene	18.25	180	9659	1.80	ug/L	82
137) 1,2,4-trichlorobenzene	18.99	180	5802	1.24	ug/L	90
138) hexachlorobutadiene	19.04	225	4914	1.85	ug/L	83
139) naphthalene	19.37	128	9940	1.17	ug/L	97
140) 1,2,3-trichlorobenzene	19.59	180	6646	1.58	ug/L	94
141) hexachloroethane	17.41	201	3563	1.58	ug/L #	29

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

Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\av4452\  
Data File   : v105730.D  
Acq On      : 4 Aug 2010 11:49 pm  
Operator    : DONGMEI  
Sample      : IC4452-2  
Misc        : MS230,VV4452,5.0,,,,,1  
ALS Vial    : 16 Sample Multiplier: 1
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Quant Time: Aug 06 10:05:02 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 06 10:02:56 2010
Response via : Initial Calibration



MVS4452.M Fri Aug 06 18:43:33 2010 RPT1

Page: 4

6.6.15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105731.D
 Acq On : 5 Aug 2010 12:20 am
 Operator : DONGMEI
 Sample : IC4452-5
 Misc : MS230,VV4452,5.0,,,,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 09:42:46 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 09:41:08 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.48	65	97822	500.00	ug/L	0.03
4) pentafluorobenzene	9.68	168	270387	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.62	114	432292	50.00	ug/L	0.00
93) chlorobenzene-d5	14.04	117	432124	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.66	152	204627	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.74	113	15005	4.83	ug/L	0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	9.66%#
58) 1,2-dichloroethane-d4 (s)	10.18	65	15266	4.87	ug/L	0.03
Spiked Amount	50.000	Range	65 - 132	Recovery	=	9.74%#
85) toluene-d8 (s)	12.39	98	55817	5.02	ug/L	0.04
Spiked Amount	50.000	Range	74 - 129	Recovery	=	10.04%#
109) 4-bromofluorobenzene (s)	15.38	95	25559	5.35	ug/L	0.04
Spiked Amount	50.000	Range	62 - 138	Recovery	=	10.70%#

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.60	59	10123	24.12	ug/L	100
3) 1,4-dioxane	11.43	88	3649	120.21	ug/L #	91
13) chlorodifluoromethane	4.24	51	12791	5.51	ug/L	93
14) dichlorodifluoromethane	4.23	85	16313	5.11	ug/L	89
15) chloromethane	4.55	50	27105	5.37	ug/L	95
16) vinyl chloride	4.78	62	19838	4.86	ug/L	92
17) bromomethane	5.41	96	14168	4.77	ug/L	94
18) chloroethane	5.58	64	12405	4.95	ug/L	95
19) trichlorofluoromethane	5.99	101	20072	5.22	ug/L	91
21) ethyl ether	6.42	74	8402	4.90	ug/L	83
27) acrolein	6.69	56	26586	48.53	ug/L	89
28) freon 113	6.77	151	10197	5.29	ug/L	97
29) 1,1-dichloroethene	6.81	96	13617	5.21	ug/L	96
31) iso-butyl alcohol	10.27	74	4891	49.18	ug/L #	62
32) allyl chloride	7.33	78	3262	5.78	ug/L #	54
33) acetonitrile	7.36	40	8142	38.72	ug/L #	44
34) iodomethane	7.10	142	27333	5.01	ug/L	96
35) carbon disulfide	7.23	76	42726	5.20	ug/L	99
36) methylene chloride	7.51	84	19496	4.97	ug/L	98
37) methyl acetate	7.39	74	1220	2.93	ug/L #	1
38) methyl tert butyl ether	7.82	73	46814	5.06	ug/L	96
39) trans-1,2-dichloroethene	7.89	96	15314	5.06	ug/L	99
40) di-isopropyl ether	8.41	45	53970	5.03	ug/L	100
42) 1,1-dichloroethane	8.44	63	25963	5.01	ug/L	88
43) chloroprene	8.57	53	18161	5.12	ug/L	90
44) acrylonitrile	7.90	53	22487	24.85	ug/L	85
46) ethyl tert-butyl ether	8.87	59	51772	5.08	ug/L	99
47) ethyl acetate	9.31	45	2536	6.59	ug/L #	1
48) 2,2-dichloropropane	9.17	77	19359	5.15	ug/L	94
49) cis-1,2-dichloroethene	9.19	96	17583	5.11	ug/L	85
50) propionitrile	9.32	54	16222	44.29	ug/L	94
53) bromochloromethane	9.50	128	8290	4.85	ug/L	94
54) tetrahydrofuran	9.57	42	4664	5.04	ug/L	72

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105731.D
 Acq On : 5 Aug 2010 12:20 am
 Operator : DONGMEI
 Sample : IC4452-5
 Misc : MS230,VV4452,5.0,,,,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 09:42:46 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 09:41:08 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) chloroform	9.53	83	25889	4.99	ug/L	92
56) tert-Butyl Formate	9.58	59	10510	4.63	ug/L #	90
59) 1,1,1-trichloroethane	9.79	97	19789	5.12	ug/L	94
60) Cyclohexane	9.87	84	18805	4.97	ug/L	68
61) Tert Amyl Alcohol	10.16	55	806	9.92	ug/L #	1
63) methylcyclohexane	11.21	83	23068	5.11	ug/L	96
64) epichlorohydrin	12.00	57	4689	18.58	ug/L	78
65) n-butyl alcohol	10.92	56	15010	182.78	ug/L	76
66) carbon tetrachloride	10.01	117	16368	5.08	ug/L	85
67) 1,1-dichloropropene	10.00	75	17447	5.18	ug/L	95
68) hexane	8.18	57	21494	6.42	ug/L	90
69) 2,2,4-Trimethylpentane	10.24	57	49953	5.27	ug/L #	98
70) benzene	10.26	78	61536	5.28	ug/L	94
71) tert-amyl methyl ether	10.28	73	49909	4.81	ug/L	92
72) heptane	10.43	57	10432	5.70	ug/L	88
73) isopropyl acetate	10.18	61	3606	3.06	ug/L #	1
74) 1,2-dichloroethane	10.28	62	16154	4.93	ug/L	93
75) trichloroethene	11.00	95	15952	5.30	ug/L	97
77) tert-Amyl Ethyl Ether	11.14	87	24930	4.95	ug/L	96
79) 2-chloroethyl vinyl ether	11.84	63	27885	21.86	ug/L	96
80) methyl methacrylate	11.36	100	3328	4.07	ug/L #	22
81) 1,2-dichloropropane	11.27	63	16589	5.10	ug/L	98
82) dibromomethane	11.43	93	9496	5.25	ug/L	83
83) bromodichloromethane	11.55	83	20463	5.01	ug/L	94
84) cis-1,3-dichloropropene	12.06	75	26730	5.12	ug/L	90
86) 4-methyl-2-pentanone	12.23	58	5502	4.72	ug/L #	1
87) toluene	12.46	92	42176	4.99	ug/L	93
88) isoamyl alcohol	12.28	55	10882	95.91	ug/L #	61
89) trans-1,3-dichloropropene	12.69	75	22077	4.93	ug/L	83
90) ethyl methacrylate	12.73	69	18367	4.74	ug/L #	89
91) 1,1,2-trichloroethane	12.90	83	12155	4.99	ug/L	90
92) 2-hexanone	13.23	58	4750	4.60	ug/L #	10
94) tetrachloroethene	13.10	166	25954	5.66	ug/L	96
95) 1,3-dichloropropane	13.10	76	22759	4.75	ug/L	97
96) butyl acetate	13.30	73	6404	9.68	ug/L #	1
97) 3,3-Dimethyl-1-Butanol	13.34	69	9317	46.84	ug/L #	62
98) dibromochloromethane	13.40	129	16762	4.44	ug/L	91
99) 1,2-dibromoethane	13.58	107	14013	4.63	ug/L	98
100) chlorobenzene	14.08	112	47042	4.87	ug/L	87
101) 1,1,1,2-tetrachloroethane	14.13	131	16683	4.72	ug/L	90
102) ethylbenzene	14.15	91	69975	4.84	ug/L	98
103) m,p-xylene	14.27	106	56094	9.54	ug/L	91
104) o-xylene	14.74	106	29373	4.87	ug/L	98
105) styrene	14.79	104	50562	4.73	ug/L	94
107) bromoform	15.05	173	11418	4.30	ug/L	96
108) cyclohexanone	15.34	55	10062	55.88	ug/L	84
111) isopropylbenzene	15.13	105	70275	5.21	ug/L	94
112) bromobenzene	15.59	156	21188	5.05	ug/L	93
113) 1,1,2,2-tetrachloroethane	15.46	83	17557	5.07	ug/L	97
114) trans-1,4-dichloro-2-buten	15.54	53	2821	4.09	ug/L #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
Data File : v105731.D
Acq On : 5 Aug 2010 12:20 am
Operator : DONGMEI
Sample : IC4452-5
Misc : MS230,VV4452,5.0,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 09:42:46 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 06 09:41:08 2010
Response via : Initial Calibration

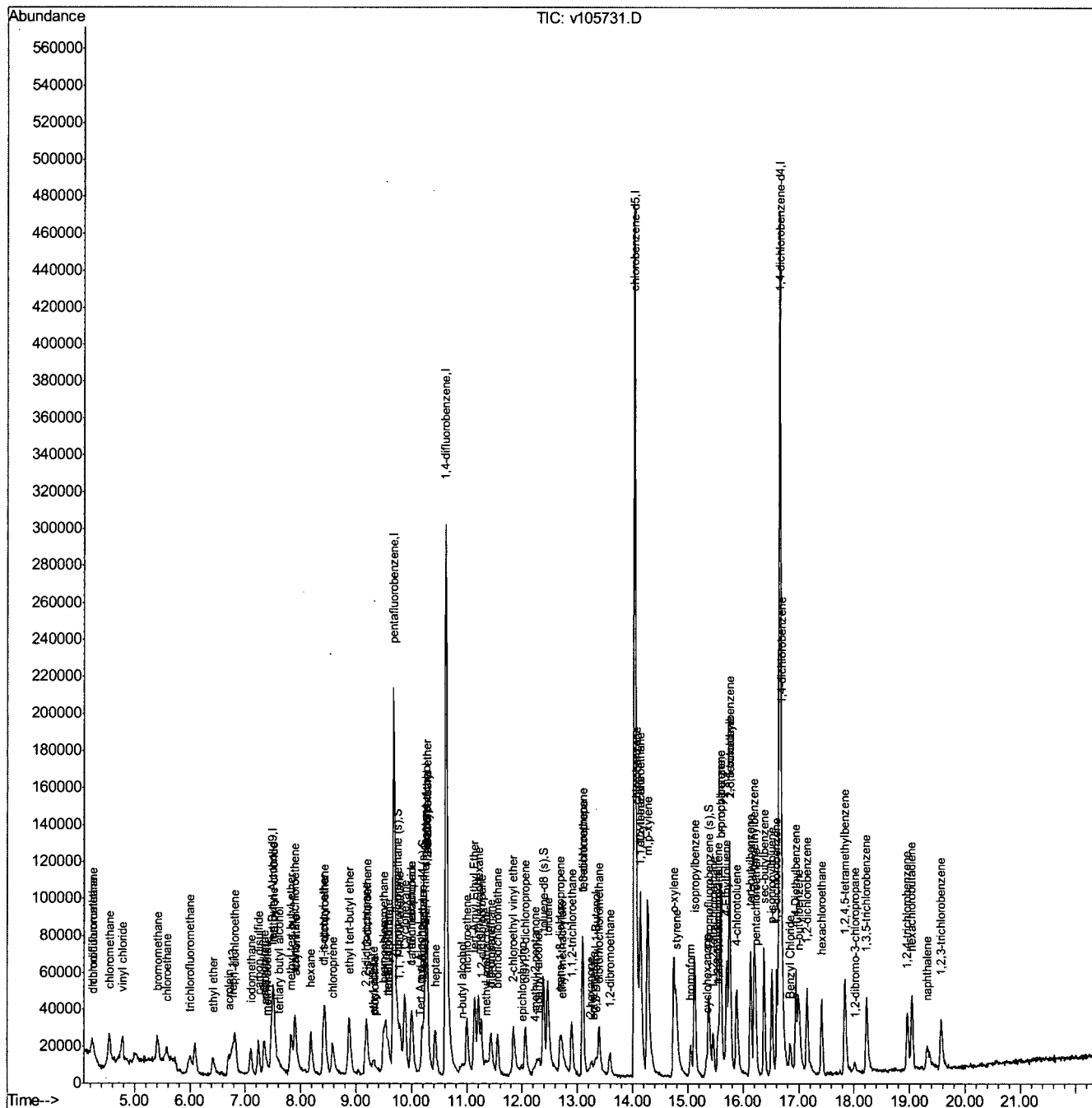
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
115) 1,2,3-trichloropropane	15.55	110	4597	5.05	ug/L #	70
116) n-propylbenzene	15.59	91	78470	5.16	ug/L	99
117) 4-Ethyltoluene	15.71	105	65577	5.12	ug/L	96
118) 2-chlorotoluene	15.75	126	18723	5.20	ug/L	97
119) 4-chlorotoluene	15.87	91	52642	5.16	ug/L	99
120) 1,3,5-trimethylbenzene	15.76	105	58929	4.67	ug/L	67
121) tert-butylbenzene	16.14	119	49754	5.25	ug/L	96
122) pentachloroethane	16.23	167	7830	3.83	ug/L	92
123) 1,2,4-trimethylbenzene	16.20	105	59738	5.21	ug/L	96
124) sec-butylbenzene	16.38	105	72230	5.24	ug/L	98
125) 1,3-dichlorobenzene	16.61	146	35602	5.06	ug/L	97
126) p-isopropyltoluene	16.52	119	56821	5.07	ug/L	96
128) 1,4-dichlorobenzene	16.70	146	42090	5.35	ug/L	99
129) 1,2-dichlorobenzene	17.15	146	36588	5.16	ug/L	94
130) Benzyl Chloride	16.85	91	19680	4.48	ug/L	99
132) 1,4-Diethylbenzene	16.95	119	33706	5.04	ug/L	93
133) n-butylbenzene	17.00	92	26975	5.11	ug/L	95
134) 1,2,4,5-tetramethylbenzene	17.84	119	50058	4.72	ug/L	92
135) 1,2-dibromo-3-chloropropan	18.02	75	2392	4.65	ug/L #	77
136) 1,3,5-trichlorobenzene	18.23	180	27831	5.21	ug/L	95
137) 1,2,4-trichlorobenzene	18.96	180	20294	4.35	ug/L	97
138) hexachlorobutadiene	19.04	225	13461	5.10	ug/L	88
139) naphthalene	19.31	128	32962	3.91	ug/L	98
140) 1,2,3-trichlorobenzene	19.57	180	18829	4.48	ug/L	94
141) hexachloroethane	17.42	201	10403	4.63	ug/L	97

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\av4452\  
Data File  : v105731.D  
Acq On     : 5 Aug 2010 12:20 am  
Operator   : DONGMEI  
Sample     : IC4452-5  
Misc       : MS230,VV4452,5.0,,,,,1  
ALS Vial   : 17 Sample Multiplier: 1
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Quant Time: Aug 06 09:42:46 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 06 09:41:08 2010
Response via : Initial Calibration



MVS4452.M Fri Aug 06 18:44:17 2010 RPT1

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA.old\AV4452-4453\
 Data File : v105732.D
 Acq On : 5 Aug 2010 12:51 am
 Operator : DONGMEI
 Sample : IC4452-10
 Misc : MS230,VV4452,5.0,,,,,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 09:14:31 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 09:12:24 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.46	65	96181	500.00	ug/L	0.01
4) pentafluorobenzene	9.68	168	271204	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.62	114	433286	50.00	ug/L	0.00
93) chlorobenzene-d5	14.04	117	406794	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.66	152	208757	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.74	113	34909	11.21	ug/L	0.01
Spiked Amount	50.000	Range 67 - 127	Recovery	=	22.42%#	
58) 1,2-dichloroethane-d4 (s)	10.18	65	35980	11.45	ug/L	0.02
Spiked Amount	50.000	Range 65 - 132	Recovery	=	22.90%#	
85) toluene-d8 (s)	12.37	98	129627	11.63	ug/L	0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	23.26%#	
109) 4-bromofluorobenzene (s)	15.36	95	50415	11.22	ug/L	0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	22.44%#	

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.59	59	25403	61.55	ug/L	100
3) 1,4-dioxane	11.39	88	7508	251.56	ug/L #	86
13) chlorodifluoromethane	4.24	51	25443	10.92	ug/L	97
14) dichlorodifluoromethane	4.23	85	31272	9.77	ug/L	97
15) chloromethane	4.54	50	50849	10.04	ug/L	99
16) vinyl chloride	4.78	62	44073	10.76	ug/L	99
17) bromomethane	5.41	96	32828	11.02	ug/L	97
18) chloroethane	5.57	64	26595	10.58	ug/L	95
19) trichlorofluoromethane	5.99	101	41227	10.69	ug/L	91
21) ethyl ether	6.41	74	18752	10.90	ug/L	86
27) acrolein	6.67	56	58954	107.29	ug/L	99
28) freon 113	6.77	151	21556	11.15	ug/L	99
29) 1,1-dichloroethene	6.82	96	27339	10.43	ug/L	98
30) acetone	6.94	58	2791	11.46	ug/L #	18
31) iso-butyl alcohol	10.26	74	11005	110.33	ug/L	78
32) allyl chloride	7.33	78	6177	10.92	ug/L #	75
33) acetonitrile	7.33	40	24370	115.55	ug/L #	1
34) iodomethane	7.09	142	61495	11.25	ug/L	95
35) carbon disulfide	7.23	76	90803	11.02	ug/L	98
36) methylene chloride	7.51	84	41518	10.55	ug/L	96
37) methyl acetate	7.46	74	4444	10.63	ug/L #	1
38) methyl tert butyl ether	7.82	73	101671	10.96	ug/L	98
39) trans-1,2-dichloroethene	7.88	96	33487	11.02	ug/L	94
40) di-isopropyl ether	8.40	45	121437	11.28	ug/L	98
41) 2-butanone	9.24	72	2794	9.39	ug/L #	69
42) 1,1-dichloroethane	8.44	63	58387	11.22	ug/L	96
43) chloroprene	8.56	53	40294	11.33	ug/L	96
44) acrylonitrile	7.87	53	46729	51.49	ug/L	98
45) vinyl acetate	8.54	86	2964	7.52	ug/L #	1
46) ethyl tert-butyl ether	8.87	59	116364	11.37	ug/L	100
47) ethyl acetate	9.22	45	4523	11.71	ug/L #	1
48) 2,2-dichloropropane	9.17	77	40637	10.78	ug/L	99
49) cis-1,2-dichloroethene	9.18	96	38009	11.02	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA.old\AV4452-4453\
 Data File : v105732.D
 Acq On : 5 Aug 2010 12:51 am
 Operator : DONGMEI
 Sample : IC4452-10
 Misc : MS230,VV4452,5.0,,,,,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 09:14:31 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 Qlast Update : Fri Aug 06 09:12:24 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) propionitrile	9.26	54	41216	112.20	ug/L	99
51) methyl acrylate	9.37	85	3284	8.55	ug/L #	13
52) methacrylonitrile	9.48	67	11749	10.30	ug/L	85
53) bromochloromethane	9.49	128	19697	11.49	ug/L	96
54) tetrahydrofuran	9.56	42	9168	9.88	ug/L	94
55) chloroform	9.53	83	58291	11.21	ug/L	98
56) tert-Butyl Formate	9.57	59	25240	11.08	ug/L #	99
59) 1,1,1-trichloroethane	9.79	97	42640	10.99	ug/L	94
60) Cyclohexane	9.88	84	40924	10.77	ug/L	93
61) Tert Amyl Alcohol	10.14	55	3870	47.51	ug/L #	65
63) methylcyclohexane	11.21	83	48416	10.70	ug/L	97
64) epichlorohydrin	11.97	57	14306	56.54	ug/L	96
65) n-butyl alcohol	10.83	56	43127	523.97	ug/L	90
66) carbon tetrachloride	10.01	117	35244	10.91	ug/L	91
67) 1,1-dichloropropene	9.98	75	37365	11.07	ug/L	96
68) hexane	8.18	57	36070	10.74	ug/L	95
69) 2,2,4-Trimethylpentane	10.23	57	102776	10.81	ug/L #	96
70) benzene	10.26	78	132675	11.35	ug/L	97
71) tert-amyl methyl ether	10.27	73	116108	11.17	ug/L	98
72) heptane	10.42	57	18187	9.92	ug/L	89
73) isopropyl acetate	10.17	61	10679	9.03	ug/L #	1
74) 1,2-dichloroethane	10.27	62	38603	11.76	ug/L	96
75) trichloroethene	10.99	95	34137	11.31	ug/L	96
77) tert-Amyl Ethyl Ether	11.13	87	56729	11.23	ug/L	99
79) 2-chloroethyl vinyl ether	11.82	63	69050	54.01	ug/L	100
80) methyl methacrylate	11.30	100	8530	10.40	ug/L #	64
81) 1,2-dichloropropane	11.25	63	36800	11.28	ug/L	93
82) dibromomethane	11.42	93	20689	11.41	ug/L	89
83) bromodichloromethane	11.55	83	46961	11.46	ug/L	99
84) cis-1,3-dichloropropene	12.05	75	58844	11.25	ug/L	92
86) 4-methyl-2-pentanone	12.17	58	12661	10.84	ug/L #	41
87) toluene	12.45	92	89662	10.59	ug/L	100
88) isoamyl alcohol	12.22	55	24114	212.05	ug/L	92
89) trans-1,3-dichloropropene	12.67	75	50307	11.20	ug/L	88
90) ethyl methacrylate	12.67	69	39208	10.10	ug/L	96
91) 1,1,2-trichloroethane	12.89	83	27862	11.42	ug/L	97
92) 2-hexanone	13.17	58	9015	8.71	ug/L	96
94) tetrachloroethene	13.09	166	53192	12.32	ug/L	98
95) 1,3-dichloropropane	13.09	76	52135	11.57	ug/L	95
96) butyl acetate	13.22	73	8503	13.65	ug/L #	41
97) 3,3-Dimethyl-1-Butanol	13.31	69	19059	101.78	ug/L #	58
98) dibromochloromethane	13.39	129	41437	11.67	ug/L	97
99) 1,2-dibromoethane	13.57	107	32563	11.42	ug/L	85
100) chlorobenzene	14.07	112	104711	11.52	ug/L	98
101) 1,1,1,2-tetrachloroethane	14.13	131	38231	11.48	ug/L	96
102) ethylbenzene	14.14	91	155852	11.45	ug/L	99
103) m,p-xylene	14.26	106	125792	22.73	ug/L	99
104) o-xylene	14.73	106	66684	11.74	ug/L	89
105) styrene	14.76	104	115689	11.49	ug/L	99
107) bromoform	15.04	173	28622	11.46	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA.old\AV4452-4453\
 Data File : v105732.D
 Acq On : 5 Aug 2010 12:51 am
 Operator : DONGMEI
 Sample : IC4452-10
 Misc : MS230,VV4452,5.0,,,,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 09:14:31 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 09:12:24 2010
 Response via : Initial Calibration

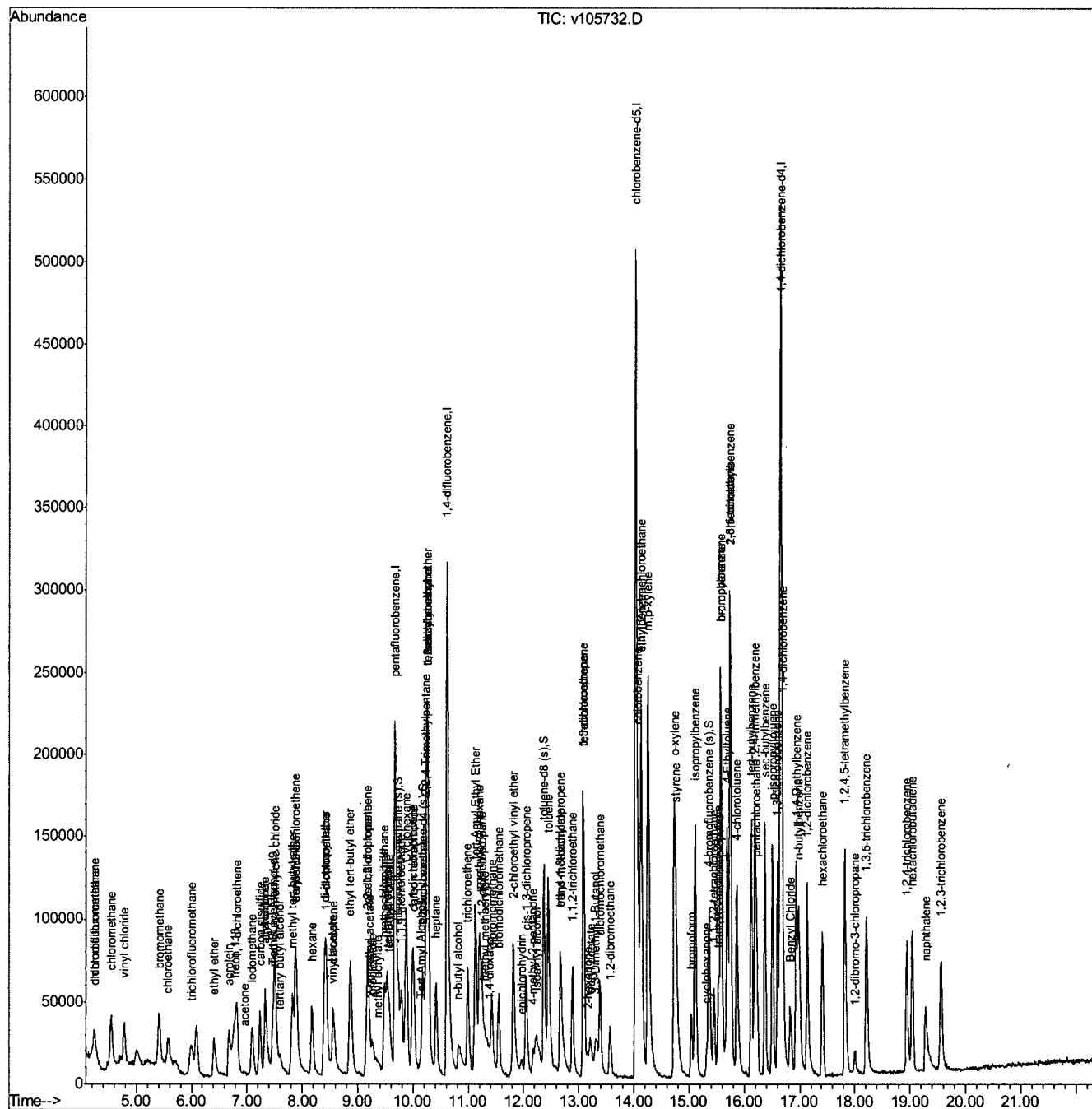
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) cyclohexanone	15.31	55	14973	88.32	ug/L	97
111) isopropylbenzene	15.11	105	155910	11.34	ug/L	98
112) bromobenzene	15.58	156	49679	11.60	ug/L	91
113) 1,1,2,2-tetrachloroethane	15.45	83	40696	11.52	ug/L	98
114) trans-1,4-dichloro-2-buten	15.52	53	7366	10.46	ug/L #	1
115) 1,2,3-trichloropropane	15.54	110	10557	11.36	ug/L	93
116) n-propylbenzene	15.58	91	169838	10.95	ug/L	99
117) 4-Ethyltoluene	15.69	105	150425	11.52	ug/L	99
118) 2-chlorotoluene	15.75	126	41321	11.25	ug/L	97
119) 4-chlorotoluene	15.86	91	118461	11.38	ug/L	99
120) 1,3,5-trimethylbenzene	15.74	105	133706	10.38	ug/L	68
121) tert-butylbenzene	16.13	119	108105	11.19	ug/L	99
122) pentachloroethane	16.22	167	20081	9.63	ug/L	88
123) 1,2,4-trimethylbenzene	16.19	105	126759	10.83	ug/L	97
124) sec-butylbenzene	16.38	105	156362	11.12	ug/L	99
125) 1,3-dichlorobenzene	16.61	146	80648	11.23	ug/L	94
126) p-isopropyltoluene	16.51	119	124810	10.91	ug/L	99
128) 1,4-dichlorobenzene	16.70	146	86848	10.81	ug/L	97
129) 1,2-dichlorobenzene	17.14	146	82403	11.40	ug/L	99
130) Benzyl Chloride	16.84	91	47085	10.51	ug/L	96
132) 1,4-Diethylbenzene	16.94	119	75215	11.04	ug/L	99
133) n-butylbenzene	16.99	92	58138	10.79	ug/L	96
134) 1,2,4,5-tetramethylbenzene	17.82	119	122669	11.33	ug/L	97
135) 1,2-dibromo-3-chloropropan	18.00	75	5455	10.39	ug/L	83
136) 1,3,5-trichlorobenzene	18.21	180	58747	10.78	ug/L	97
137) 1,2,4-trichlorobenzene	18.94	180	49034	10.30	ug/L	93
138) hexachlorobutadiene	19.04	225	29139	10.81	ug/L	93
139) naphthalene	19.28	128	85203	9.91	ug/L	94
140) 1,2,3-trichlorobenzene	19.56	180	45757	10.67	ug/L	98
141) hexachloroethane	17.42	201	24012	10.48	ug/L	99

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

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA.old\AV4452-4453\  
Data File : v105732.D  
Acq On    : 5 Aug 2010 12:51 am  
Operator  : DONGMEI  
Sample    : IC4452-10  
Misc      : MS230,VV4452,5.0,,,,1  
ALS Vial  : 18 Sample Multiplier: 1
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Quant Time: Aug 06 09:14:31 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 06 09:12:24 2010
Response via : Initial Calibration



MVS4452.M Fri Sep 03 15:45:25 2010 RPT1

Page: 4

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Quantitation Report (Qedit)

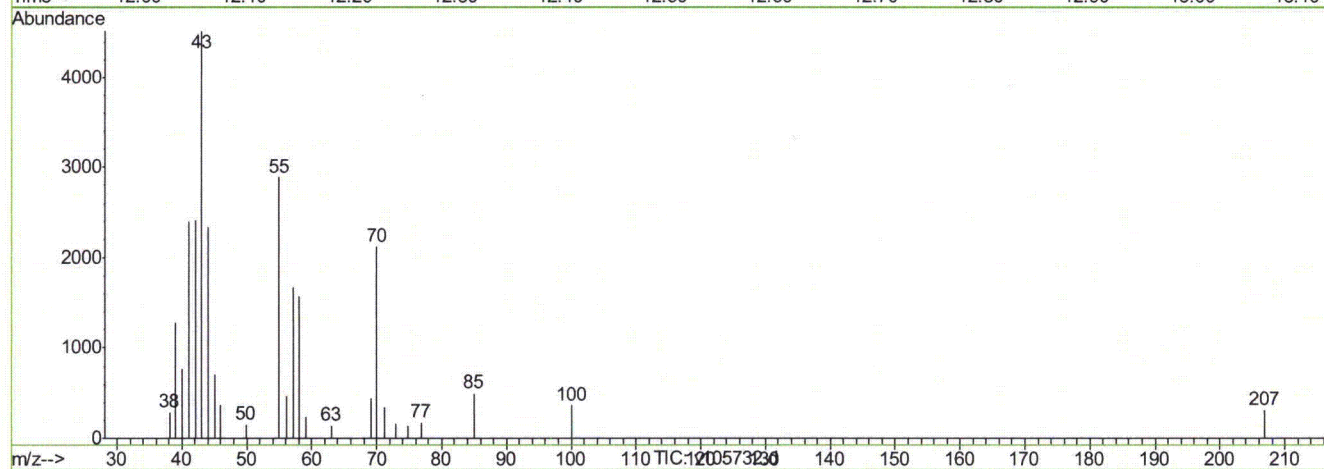
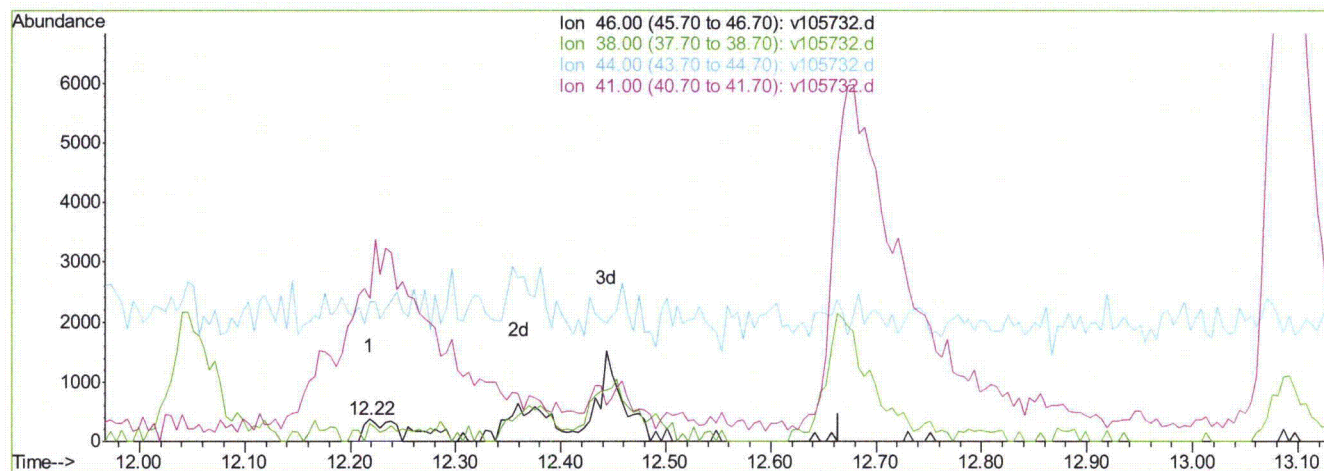
Data File : C:\VV4452\v105732.d
Acq On : 5 Aug 2010 12:51 am
Sample : IC4452-10
Misc : MS230,VV4452,5.0,,,1
MS Integration Params: rteint.p

Vial: 18
Operator: DONGMEI
Inst : MSV
Multiplr: 1.00

Quant Time: Oct 21 10:19:05 2010

Results File: MVS4452.RES

Method : C:\MSDCHEM\1\METHODS\MVS4452.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Oct 21 13:01:18 2010
Response via : Multiple Level Calibration



(78) 2-nitropropane

12.22min 8.08ug/L

response 671

Ion	Exp%	Act%
46.00	100	100
38.00	54.60	104.32#
44.00	130.20	0.00#
41.00	1553.60	2612.52#

v105732.d MVS4452.M

Thu Oct 21 15:41:37 2010

RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105733.D
 Acq On : 5 Aug 2010 1:23 am
 Operator : DONGMEI
 Sample : IC4452-20
 Misc : MS230,VV4452,5.0,,,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 06 09:18:13 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 09:15:56 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.46	65	99648	500.00	ug/L	0.01
4) pentafluorobenzene	9.67	168	275450	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.62	114	442167	50.00	ug/L	0.00
93) chlorobenzene-d5	14.03	117	415750	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.66	152	218980	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.73	113	149000	47.13	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	94.26%
58) 1,2-dichloroethane-d4 (s)	10.16	65	149791	46.95	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	93.90%
85) toluene-d8 (s)	12.35	98	545046	47.92	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	95.84%
109) 4-bromofluorobenzene (s)	15.34	95	213111	46.41	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	92.82%

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.59	59	43342	101.36	ug/L	100
3) 1,4-dioxane	11.38	88	14497	468.83	ug/L #	92
13) chlorodifluoromethane	4.24	51	44807	18.94	ug/L	96
14) dichlorodifluoromethane	4.24	85	61484	18.92	ug/L	99
15) chloromethane	4.55	50	94610	18.39	ug/L	99
16) vinyl chloride	4.78	62	78286	18.82	ug/L	97
17) bromomethane	5.40	96	57765	19.09	ug/L	96
18) chloroethane	5.58	64	47410	18.56	ug/L	99
19) trichlorofluoromethane	6.00	101	75200	19.19	ug/L	93
21) ethyl ether	6.40	74	34262	19.60	ug/L	98
27) acrolein	6.65	56	101407	181.71	ug/L	98
28) freon 113	6.77	151	38840	19.78	ug/L	98
29) 1,1-dichloroethene	6.82	96	49426	18.56	ug/L	94
30) acetone	6.92	58	4710	19.04	ug/L	96
31) iso-butyl alcohol	10.26	74	19831	195.75	ug/L	77
32) allyl chloride	7.32	78	9870	17.18	ug/L #	85
33) acetonitrile	7.31	40	41265	192.65	ug/L #	1
34) iodomethane	7.09	142	106139	19.11	ug/L	98
35) carbon disulfide	7.23	76	158352	18.92	ug/L	97
36) methylene chloride	7.51	84	70234	17.57	ug/L	96
37) methyl acetate	7.36	74	8218	19.35	ug/L #	71
38) methyl tert butyl ether	7.81	73	179800	19.08	ug/L	99
39) trans-1,2-dichloroethene	7.88	96	56854	18.43	ug/L	98
40) di-isopropyl ether	8.40	45	206905	18.93	ug/L	99
41) 2-butanone	9.20	72	5297	17.54	ug/L #	71
42) 1,1-dichloroethane	8.43	63	101121	19.14	ug/L	99
43) chloroprene	8.55	53	69798	19.32	ug/L	99
44) acrylonitrile	7.85	53	94650	102.68	ug/L	96
45) vinyl acetate	8.49	86	6040	15.09	ug/L #	1
46) ethyl tert-butyl ether	8.86	59	204420	19.67	ug/L	99
47) ethyl acetate	9.18	45	8259	21.05	ug/L #	52
48) 2,2-dichloropropane	9.16	77	69274	18.09	ug/L	97
49) cis-1,2-dichloroethene	9.18	96	67108	19.15	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105733.D
 Acq On : 5 Aug 2010 1:23 am
 Operator : DONGMEI
 Sample : IC4452-20
 Misc : MS230,VV4452,5.0,,,,,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 06 09:18:13 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 09:15:56 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) propionitrile	9.24	54	75258	201.71	ug/L	97
51) methyl acrylate	9.30	85	6806	17.45	ug/L #	66
52) methacrylonitrile	9.44	67	21415	18.49	ug/L	93
53) bromochloromethane	9.48	128	34449	19.78	ug/L	95
54) tetrahydrofuran	9.56	42	20813	22.08	ug/L	90
55) chloroform	9.52	83	99742	18.88	ug/L	95
56) tert-Butyl Formate	9.57	59	45359	19.61	ug/L #	96
59) 1,1,1-trichloroethane	9.79	97	76390	19.39	ug/L	96
60) Cyclohexane	9.87	84	71775	18.60	ug/L	95
61) Tert Amyl Alcohol	10.12	55	7958	96.18	ug/L #	95
63) methylcyclohexane	11.20	83	86765	18.79	ug/L	99
64) epichlorohydrin	11.95	57	26170	101.36	ug/L	93
65) n-butyl alcohol	10.79	56	81529	970.63	ug/L	91
66) carbon tetrachloride	10.00	117	62705	19.02	ug/L	97
67) 1,1-dichloropropene	9.98	75	66681	19.36	ug/L	96
68) hexane	8.16	57	65588	19.14	ug/L	95
69) 2,2,4-Trimethylpentane	10.23	57	180963	18.66	ug/L #	99
70) benzene	10.25	78	227345	19.05	ug/L	98
71) tert-amyl methyl ether	10.27	73	198170	18.69	ug/L	98
72) heptane	10.41	57	34997	18.71	ug/L	95
73) isopropyl acetate	10.17	61	21712	17.99	ug/L #	1
74) 1,2-dichloroethane	10.26	62	66394	19.82	ug/L	95
75) trichloroethene	10.98	95	59454	19.31	ug/L	98
77) tert-Amyl Ethyl Ether	11.13	87	98923	19.19	ug/L	96
79) 2-chloroethyl vinyl ether	11.80	63	121444	93.09	ug/L	96
80) methyl methacrylate	11.28	100	15266	18.24	ug/L #	62
81) 1,2-dichloropropane	11.25	63	65879	19.80	ug/L	96
82) dibromomethane	11.42	93	36693	19.83	ug/L	92
83) bromodichloromethane	11.54	83	81223	19.43	ug/L	98
84) cis-1,3-dichloropropene	12.04	75	104973	19.66	ug/L	97
86) 4-methyl-2-pentanone	12.16	58	23098	19.37	ug/L #	86
87) toluene	12.44	92	157733	18.26	ug/L	95
88) isoamyl alcohol	12.20	55	36699	316.23	ug/L #	65
89) trans-1,3-dichloropropene	12.65	75	92323	20.15	ug/L	92
90) ethyl methacrylate	12.66	69	77078	19.46	ug/L #	97
91) 1,1,2-trichloroethane	12.88	83	48761	19.58	ug/L	93
92) 2-hexanone	13.13	58	19143	18.11	ug/L	93
94) tetrachloroethene	13.08	166	85338	19.35	ug/L	100
95) 1,3-dichloropropane	13.08	76	94144	20.44	ug/L	98
96) butyl acetate	13.19	73	12133	19.06	ug/L	85
97) 3,3-Dimethyl-1-Butanol	13.29	69	34882	182.26	ug/L #	89
98) dibromochloromethane	13.38	129	72385	19.95	ug/L	96
99) 1,2-dibromoethane	13.56	107	59681	20.48	ug/L	98
100) chlorobenzene	14.07	112	183728	19.78	ug/L	99
101) 1,1,1,2-tetrachloroethane	14.13	131	68027	19.99	ug/L	95
102) ethylbenzene	14.13	91	276011	19.85	ug/L	98
103) m,p-xylene	14.25	106	228341	40.38	ug/L	92
104) o-xylene	14.72	106	116770	20.11	ug/L	98
105) styrene	14.74	104	206469	20.07	ug/L	94
107) bromoform	15.04	173	53123	20.81	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105733.D
 Acq On : 5 Aug 2010 1:23 am
 Operator : DONGMEI
 Sample : IC4452-20
 Misc : MS230,VV4452,5.0,,,,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 06 09:18:13 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 09:15:56 2010
 Response via : Initial Calibration

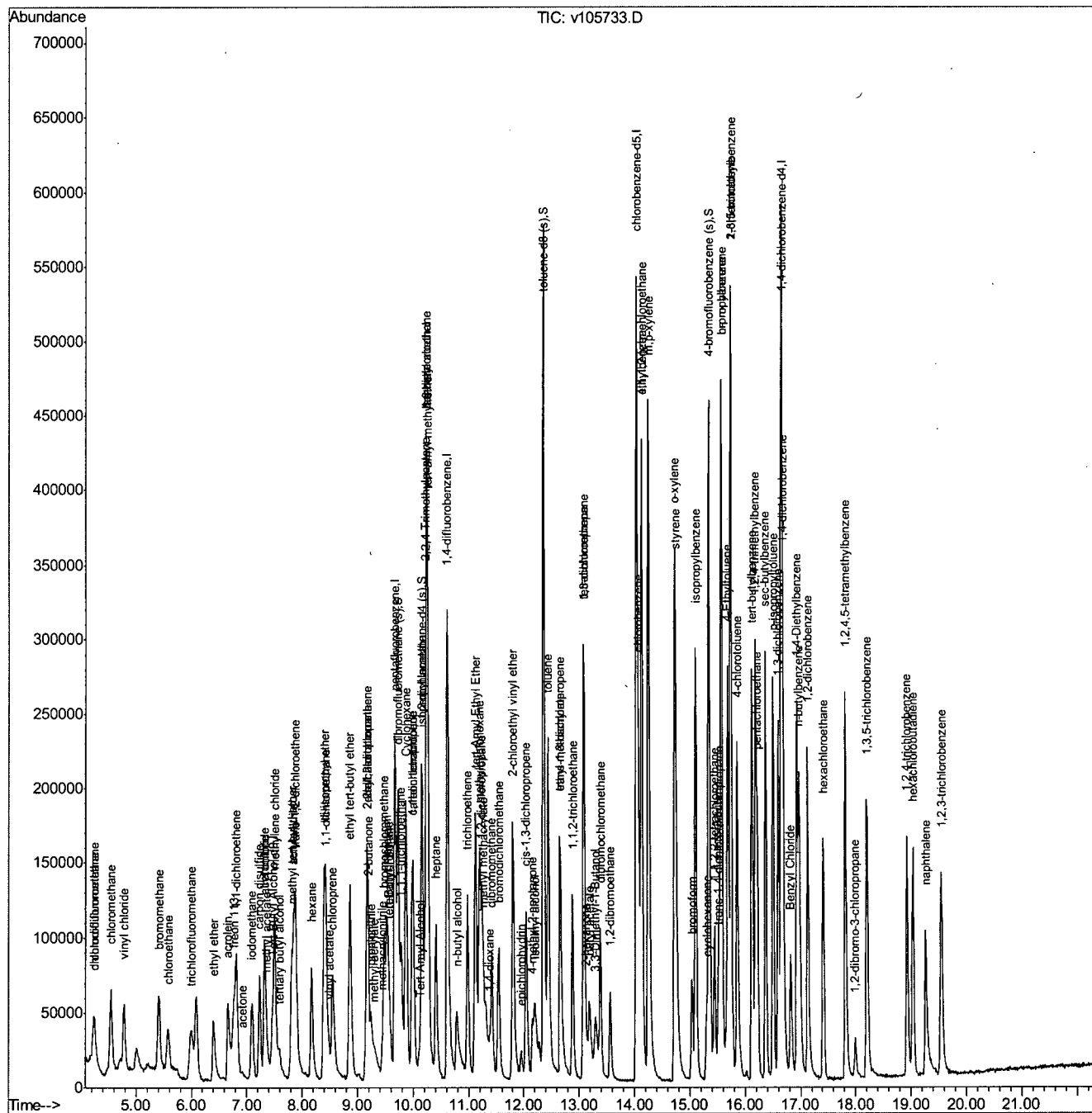
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
108) cyclohexanone	15.30	55	36183	208.84	ug/L	94
111) isopropylbenzene	15.11	105	276129	19.14	ug/L	98
112) bromobenzene	15.58	156	88966	19.81	ug/L	90
113) 1,1,2,2-tetrachloroethane	15.45	83	70424	19.00	ug/L	97
114) trans-1,4-dichloro-2-buten	15.51	53	14357	19.44	ug/L #	63
115) 1,2,3-trichloropropane	15.53	110	18981	19.47	ug/L #	87
116) n-propylbenzene	15.57	91	301650	18.55	ug/L	99
117) 4-Ethyltoluene	15.69	105	254471	18.58	ug/L	100
118) 2-chlorotoluene	15.74	126	72190	18.73	ug/L	97
119) 4-chlorotoluene	15.86	91	211777	19.39	ug/L	99
120) 1,3,5-trimethylbenzene	15.74	105	242668	17.96	ug/L	62
121) tert-butylbenzene	16.12	119	194272	19.17	ug/L	98
122) pentachloroethane	16.22	167	42693	19.53	ug/L	90
123) 1,2,4-trimethylbenzene	16.19	105	230423	18.76	ug/L	95
124) sec-butylbenzene	16.37	105	283965	19.25	ug/L	99
125) 1,3-dichlorobenzene	16.60	146	145240	19.29	ug/L	99
126) p-isopropyltoluene	16.51	119	230457	19.20	ug/L	100
128) 1,4-dichlorobenzene	16.69	146	155009	18.40	ug/L	99
129) 1,2-dichlorobenzene	17.13	146	149489	19.71	ug/L	98
130) Benzyl Chloride	16.82	91	87750	18.67	ug/L	96
132) 1,4-Diethylbenzene	16.94	119	132230	18.49	ug/L	99
133) n-butylbenzene	16.98	92	107738	19.06	ug/L	96
134) 1,2,4,5-tetramethylbenzene	17.81	119	210967	18.57	ug/L	96
135) 1,2-dibromo-3-chloropropan	17.99	75	10629	19.31	ug/L	92
136) 1,3,5-trichlorobenzene	18.20	180	107604	18.83	ug/L	96
137) 1,2,4-trichlorobenzene	18.93	180	89802	17.98	ug/L	96
138) hexachlorobutadiene	19.04	225	50830	17.98	ug/L	98
139) naphthalene	19.27	128	162877	18.05	ug/L	97
140) 1,2,3-trichlorobenzene	19.55	180	85608	19.03	ug/L	94
141) hexachloroethane	17.41	201	43586	18.14	ug/L	98

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

(QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\av4452\  
Data File  : v105733.D  
Acq On     : 5 Aug 2010    1:23 am  
Operator   : DONGMEI  
Sample     : IC4452-20  
Misc      : MS230,VV4452,5.0,,,,,1  
ALS Vial   : 19    Sample Multiplier: 1
```

Quant Time: Aug 06 09:18:13 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 06 09:15:56 2010
Response via : Initial Calibration



Quantitation Report (Qedit)

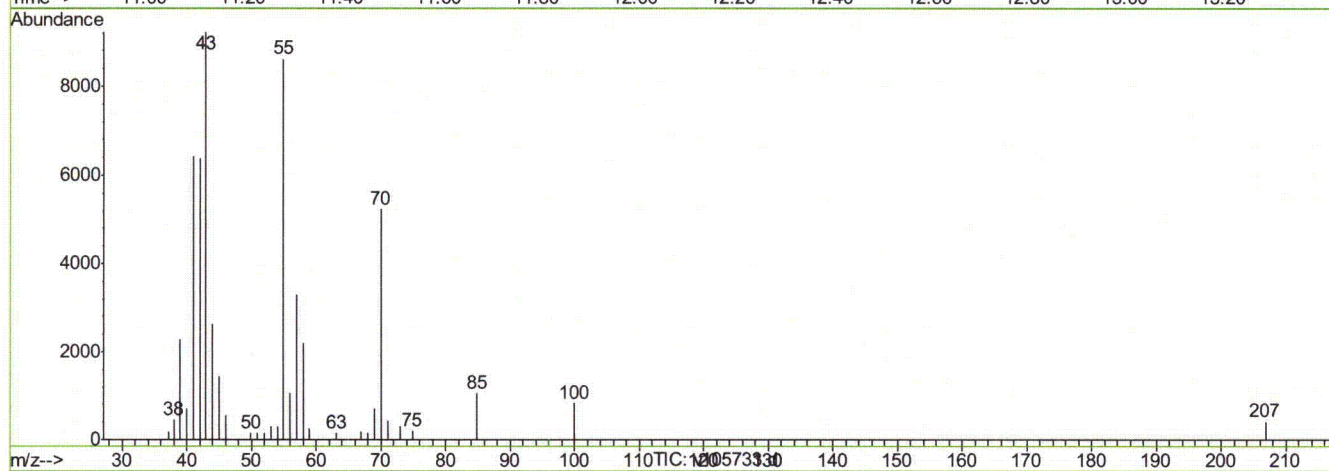
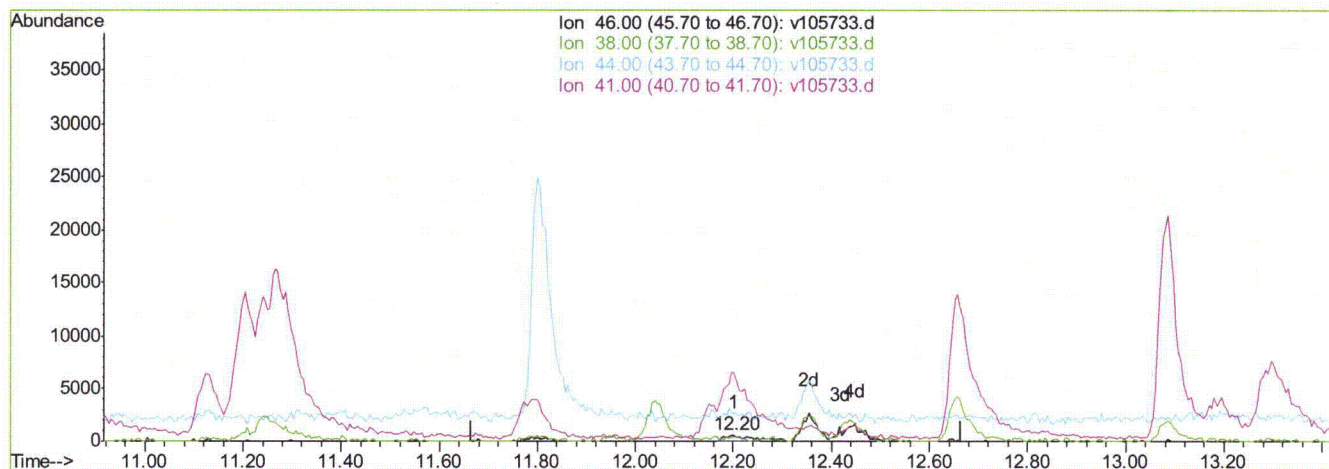
Data File : C:\VV4452\v105733.d
Acq On : 5 Aug 2010 1:23 am
Sample : IC4452-20
Misc : MS230,VV4452,5.0,,,1
MS Integration Params: rteint.p

Vial: 19
Operator: DONGMEI
Inst : MSV
Multiplr: 1.00

Quant Time: Oct 21 15:41:52 2010

Results File: MVS4452.RES

Method : C:\MSDCHEM\1\METHODS\MVS4452.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Oct 21 13:01:18 2010
Response via : Multiple Level Calibration



(78) 2-nitropropane

12.20min 15.82ug/L

response 1813

Ion	Exp%	Act%
46.00	100	100
38.00	54.60	47.82
44.00	130.20	119.36
41.00	1553.60	1650.80

v105733.d MVS4452.M

Thu Oct 21 15:42:02 2010

RPT1

Quantitation Report (Qedit)

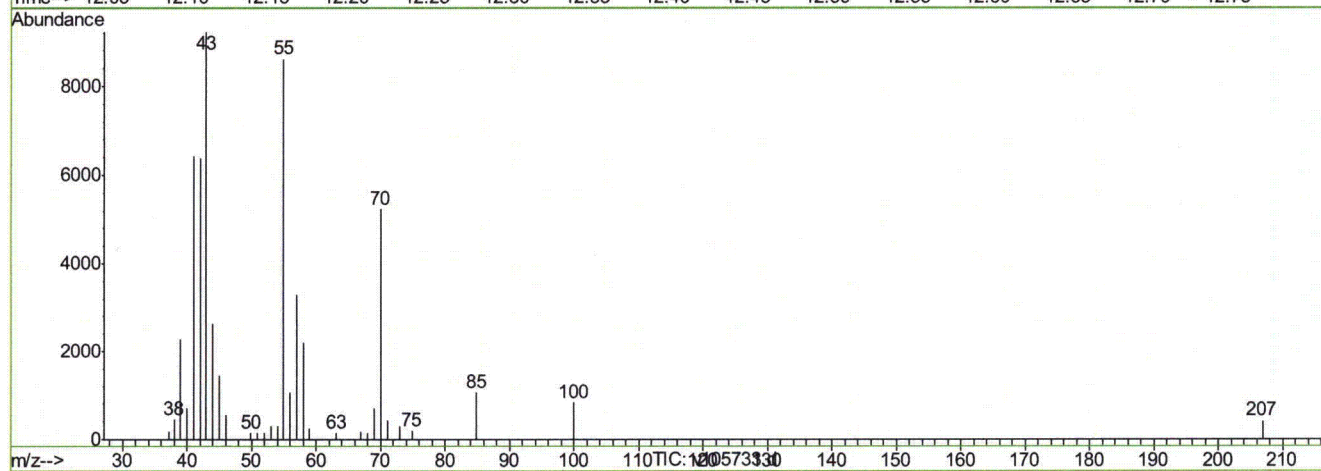
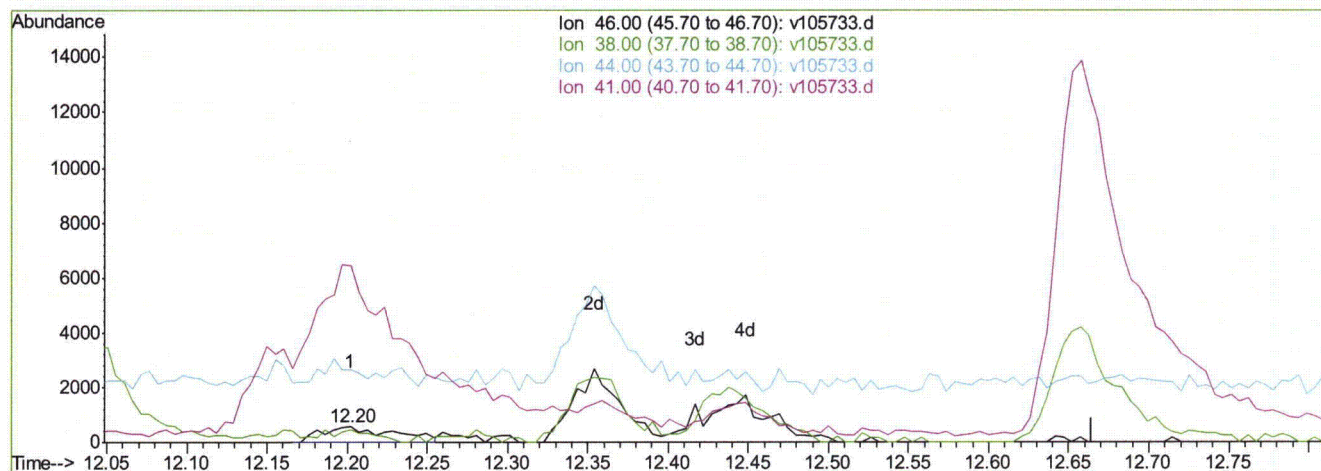
Data File : C:\VV4452\v105733.d
Acq On : 5 Aug 2010 1:23 am
Sample : IC4452-20
Misc : MS230,VV4452,5.0,,,1
MS Integration Params: rteint.p

Vial: 19
Operator: DONGMEI
Inst : MSV
Multiplr: 1.00

Quant Time: Oct 21 15:41:52 2010

Results File: MVS4452.RES

Method : C:\MSDCHEM\1\METHODS\MVS4452.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Oct 21 13:01:18 2010
Response via : Multiple Level Calibration



(78) 2-nitropropane

12.20min 15.82ug/L

response 1813

Ion	Exp%	Act%
46.00	100	100
38.00	54.60	47.82
44.00	130.20	119.36
41.00	1553.60	1650.80

Quantitation Report (Qedit)

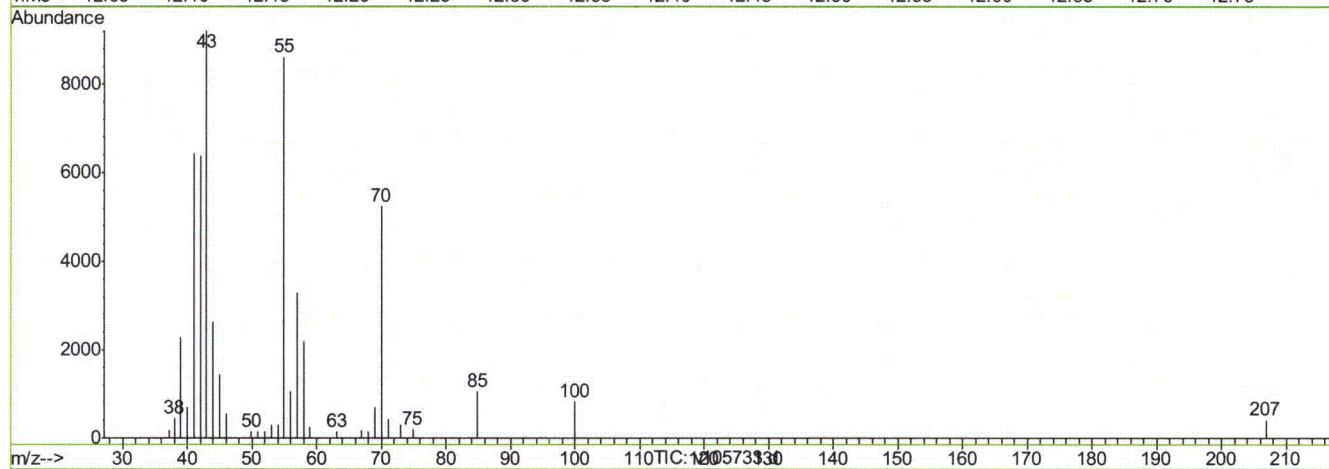
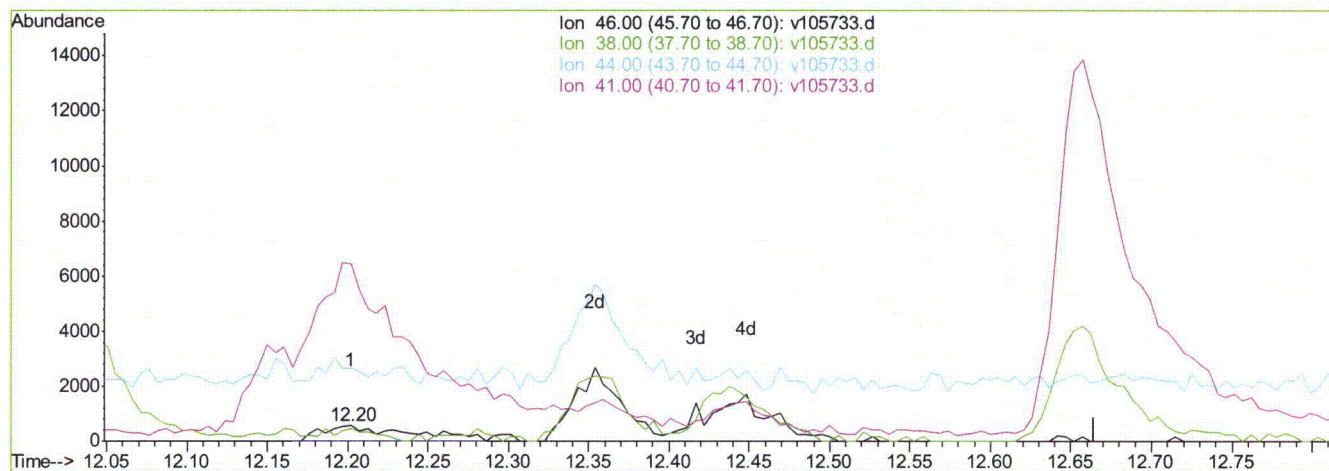
Data File : C:\VV4452\v105733.d
Acq On : 5 Aug 2010 1:23 am
Sample : IC4452-20
Misc : MS230,VV4452,5.0,,,1
MS Integration Params: rteint.p

Vial: 19
Operator: DONGMEI
Inst : MSV
Multiplr: 1.00

Quant Time: Oct 21 15:41:52 2010

Results File: MVS4452.RES

Method : C:\MSDCHEM\1\METHODS\MVS4452.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Oct 21 13:01:18 2010
Response via : Multiple Level Calibration



(78) 2-nitropropane

12.20min 18.60ug/L m

response 2218

Ion	Exp%	Act%
46.00	100	100
38.00	54.60	39.09
44.00	130.20	97.57
41.00	1553.60	1349.37

v105733.d MVS4452.M

Thu Oct 21 15:42:17 2010

RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105734.D
 Acq On : 5 Aug 2010 1:53 am
 Operator : DONGMEI
 Sample : ICC4452-50
 Misc : MS230,VV4452,5.0,,,,,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 06 08:59:24 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 08:56:13 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.45	65	99212	500.00	ug/L	0.00
4) pentafluorobenzene	9.67	168	270166	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.62	114	438006	50.00	ug/L	0.00
93) chlorobenzene-d5	14.03	117	421072	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.65	152	221974	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.73	113	150563	48.55	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	97.10%
58) 1,2-dichloroethane-d4 (s)	10.16	65	152643	48.78	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	97.56%
85) toluene-d8 (s)	12.35	98	556851	49.42	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	98.84%
109) 4-bromofluorobenzene (s)	15.34	95	221778	47.68	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	95.36%

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.57	59	105107	246.89	ug/L	100
3) 1,4-dioxane	11.37	88	37971	1233.38	ug/L	# 100
13) chlorodifluoromethane	4.25	51	106578	45.93	ug/L	100
14) dichlorodifluoromethane	4.24	85	157790	49.50	ug/L	100
15) chloromethane	4.55	50	239518	47.46	ug/L	100
16) vinyl chloride	4.79	62	200669	49.17	ug/L	100
17) bromomethane	5.41	96	147418	49.67	ug/L	100
18) chloroethane	5.57	64	118473	47.29	ug/L	100
19) trichlorofluoromethane	5.99	101	193289	50.30	ug/L	100
21) ethyl ether	6.39	74	86701	50.57	ug/L	100
27) acrolein	6.64	56	255317	466.45	ug/L	100
28) freon 113	6.76	151	97145	50.43	ug/L	100
29) 1,1-dichloroethene	6.81	96	125818	48.17	ug/L	100
30) acetone	6.89	58	10757	44.34	ug/L	100
31) iso-butyl alcohol	10.24	74	48765	490.76	ug/L	100
32) allyl chloride	7.32	78	27455	48.71	ug/L	100
33) acetonitrile	7.28	40	105540	502.35	ug/L	100
34) iodomethane	7.09	142	277161	50.88	ug/L	100
35) carbon disulfide	7.23	76	417998	50.92	ug/L	100
36) methylene chloride	7.50	84	181715	46.36	ug/L	100
37) methyl acetate	7.32	74	21308	51.16	ug/L	100
38) methyl tert butyl ether	7.81	73	447351	48.41	ug/L	100
39) trans-1,2-dichloroethene	7.87	96	149485	49.39	ug/L	100
40) di-isopropyl ether	8.39	45	513073	47.85	ug/L	100
41) 2-butanone	9.16	72	14581	49.21	ug/L	100
42) 1,1-dichloroethane	8.43	63	261541	50.46	ug/L	100
43) chloroprene	8.54	53	171419	48.38	ug/L	100
44) acrylonitrile	7.82	53	232504	257.16	ug/L	100
45) vinyl acetate	8.44	86	20416	51.99	ug/L	100
46) ethyl tert-butyl ether	8.85	59	503854	49.44	ug/L	100
47) ethyl acetate	9.15	45	19063	49.54	ug/L	100
48) 2,2-dichloropropane	9.16	77	177527	47.26	ug/L	100
49) cis-1,2-dichloroethene	9.16	96	172377	50.15	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105734.D
 Acq On : 5 Aug 2010 1:53 am
 Operator : DONGMEI
 Sample : ICC4452-50
 Misc : MS230,VV4452,5.0,,,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 06 08:59:24 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 Qlast Update : Fri Aug 06 08:56:13 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) propionitrile	9.22	54	187665	512.83	ug/L	100
51) methyl acrylate	9.27	85	19125	49.99	ug/L	100
52) methacrylonitrile	9.42	67	54648	48.11	ug/L	100
53) bromochloromethane	9.47	128	87591	51.29	ug/L	100
54) tetrahydrofuran	9.53	42	43726	47.30	ug/L	100
55) chloroform	9.52	83	256721	49.54	ug/L	100
56) tert-Butyl Formate	9.56	59	118317	52.14	ug/L #	100
59) 1,1,1-trichloroethane	9.79	97	197601	51.14	ug/L	100
60) Cyclohexane	9.86	84	184656	48.79	ug/L	100
61) Tert Amyl Alcohol	10.10	55	22937	282.64	ug/L	100
63) methylcyclohexane	11.20	83	219045	47.89	ug/L	100
64) epichlorohydrin	11.94	57	63302	247.50	ug/L	100
65) n-butyl alcohol	10.75	56	209302	2515.48	ug/L	100
66) carbon tetrachloride	10.00	117	164238	50.28	ug/L	100
67) 1,1-dichloropropene	9.97	75	174670	51.19	ug/L	100
68) hexane	8.16	57	155796	45.90	ug/L	100
69) 2,2,4-Trimethylpentane	10.23	57	459530	47.83	ug/L #	100
70) benzene	10.24	78	596914	50.50	ug/L	100
71) tert-amyl methyl ether	10.26	73	498579	47.46	ug/L	100
72) heptane	10.40	57	85338	46.05	ug/L	100
73) isopropyl acetate	10.15	61	54673	45.72	ug/L	100
74) 1,2-dichloroethane	10.25	62	171836	51.79	ug/L	100
75) trichloroethene	10.98	95	149819	49.12	ug/L	100
77) tert-Amyl Ethyl Ether	11.12	87	250626	49.08	ug/L	100
79) 2-chloroethyl vinyl ether	11.79	63	316472	244.88	ug/L	100
80) methyl methacrylate	11.26	100	40452	48.78	ug/L	100
81) 1,2-dichloropropane	11.24	63	164531	49.91	ug/L	100
82) dibromomethane	11.42	93	92890	50.67	ug/L	100
83) bromodichloromethane	11.54	83	205635	49.65	ug/L	100
84) cis-1,3-dichloropropene	12.03	75	262623	49.65	ug/L	100
86) 4-methyl-2-pentanone	12.13	58	56749	48.04	ug/L	100
87) toluene	12.43	92	396502	46.34	ug/L	100
88) isoamyl alcohol	12.17	55	117505	1022.15	ug/L	100
89) trans-1,3-dichloropropene	12.64	75	234117	51.57	ug/L	100
90) ethyl methacrylate	12.64	69	195806	49.91	ug/L	100
91) 1,1,2-trichloroethane	12.87	83	124495	50.47	ug/L	100
92) 2-hexanone	13.10	58	52706	50.35	ug/L	100
94) tetrachloroethene	13.08	166	211120	47.26	ug/L	100
95) 1,3-dichloropropane	13.08	76	237964	51.02	ug/L	100
96) butyl acetate	13.16	73	31511	48.87	ug/L	100
97) 3,3-Dimethyl-1-Butanol	13.27	69	93635	483.07	ug/L	100
98) dibromochloromethane	13.37	129	183083	49.81	ug/L	100
99) 1,2-dibromoethane	13.55	107	152343	51.63	ug/L	100
100) chlorobenzene	14.07	112	476718	50.66	ug/L	100
101) 1,1,1,2-tetrachloroethane	14.13	131	173882	50.46	ug/L	100
102) ethylbenzene	14.13	91	727225	51.64	ug/L	100
103) m,p-xylene	14.24	106	589655	102.95	ug/L	100
104) o-xylene	14.72	106	303037	51.54	ug/L	100
105) styrene	14.73	104	534997	51.35	ug/L	100
107) bromoform	15.03	173	133172	51.51	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105734.D
 Acq On : 5 Aug 2010 1:53 am
 Operator : DONGMEI
 Sample : ICC4452-50
 Misc : MS230,VV4452,5.0,,,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 06 08:59:24 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 08:56:13 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) cyclohexanone	15.29	55	76150	433.97	ug/L	100
111) isopropylbenzene	15.10	105	719715	49.22	ug/L	100
112) bromobenzene	15.57	156	227600	49.99	ug/L	100
113) 1,1,2,2-tetrachloroethane	15.44	83	179046	47.65	ug/L	100
114) trans-1,4-dichloro-2-buten	15.49	53	39720	53.06	ug/L	100
115) 1,2,3-trichloropropane	15.52	110	49680	50.28	ug/L	100
116) n-propylbenzene	15.57	91	806857	48.94	ug/L	100
117) 4-Ethyltoluene	15.68	105	694061	49.99	ug/L	100
118) 2-chlorotoluene	15.73	126	188905	48.35	ug/L	100
119) 4-chlorotoluene	15.85	91	546513	49.36	ug/L	100
120) 1,3,5-trimethylbenzene	15.73	105	617328	45.07	ug/L	63
121) tert-butylbenzene	16.13	119	514162	50.05	ug/L	100
122) pentachloroethane	16.22	167	116640	52.63	ug/L	100
123) 1,2,4-trimethylbenzene	16.18	105	604025	48.53	ug/L	100
124) sec-butylbenzene	16.37	105	748908	50.09	ug/L	100
125) 1,3-dichlorobenzene	16.59	146	384589	50.39	ug/L	100
126) p-isopropyltoluene	16.50	119	614719	50.51	ug/L	100
128) 1,4-dichlorobenzene	16.68	146	404876	47.41	ug/L	100
129) 1,2-dichlorobenzene	17.12	146	380452	49.49	ug/L	100
130) Benzyl Chloride	16.82	91	237185	49.78	ug/L	100
132) 1,4-Diethylbenzene	16.93	119	368560	50.85	ug/L	100
133) n-butylbenzene	16.97	92	304297	53.10	ug/L	100
134) 1,2,4,5-tetramethylbenzene	17.81	119	584796	50.78	ug/L	100
135) 1,2-dibromo-3-chloropropan	17.98	75	26908	48.21	ug/L	100
136) 1,3,5-trichlorobenzene	18.19	180	296605	51.19	ug/L	100
137) 1,2,4-trichlorobenzene	18.92	180	256710	50.70	ug/L	100
138) hexachlorobutadiene	19.04	225	141533	49.40	ug/L	100
139) naphthalene	19.25	128	463635	50.69	ug/L	100
140) 1,2,3-trichlorobenzene	19.54	180	236402	51.84	ug/L	100
141) hexachloroethane	17.41	201	121465	49.86	ug/L	100

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

(QT Reviewed)

Quant Time: Aug 06 08:59:24 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 06 08:56:13 2010
Response via : Initial Calibration



Quantitation Report (Qedit)

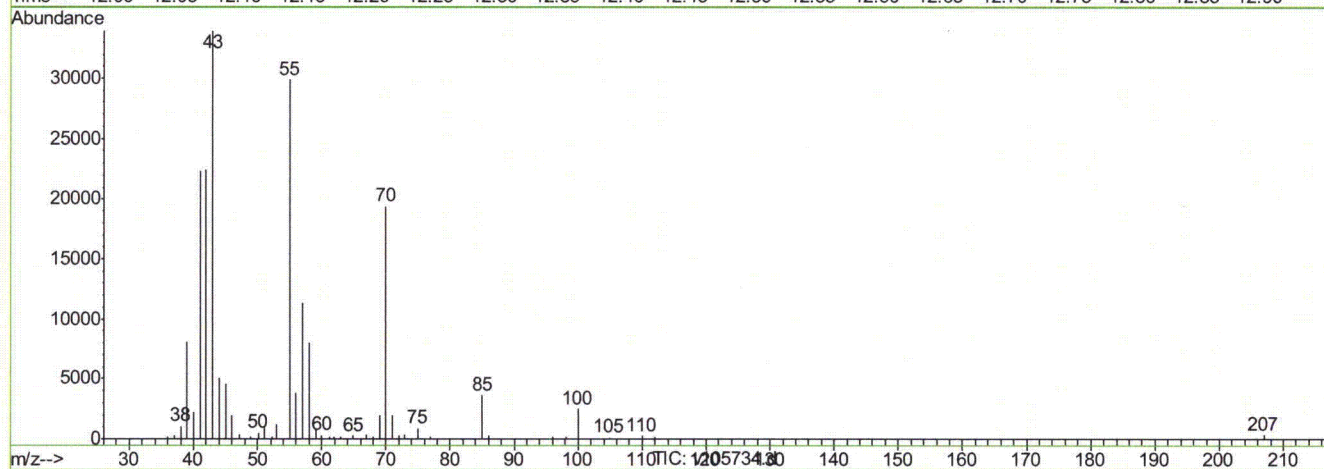
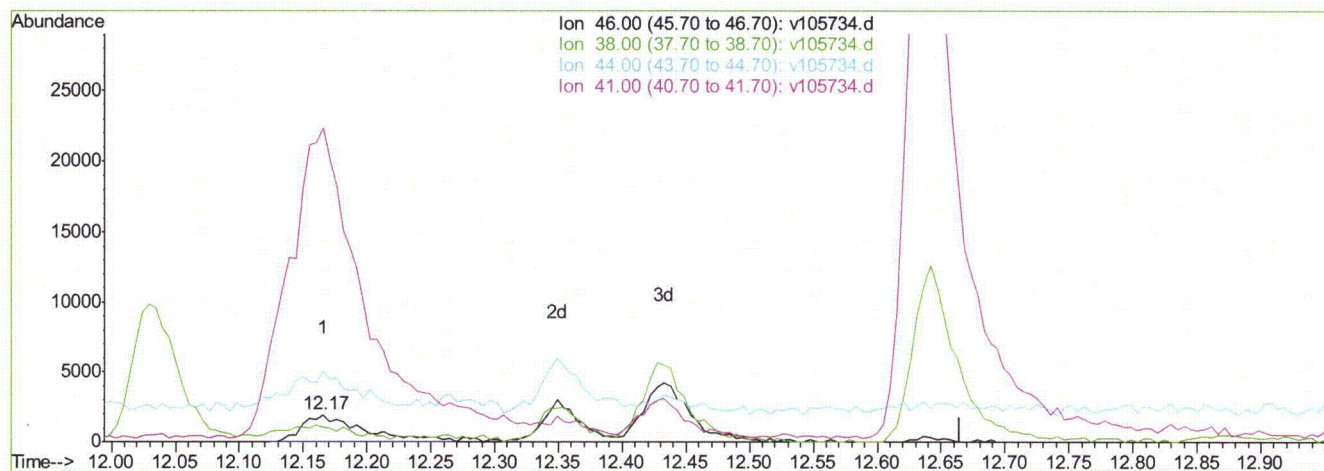
Data File : C:\VV4452\v105734.d
Acq On : 5 Aug 2010 1:53 am
Sample : ICC4452-50
Misc : MS230,VV4452,5.0,,,1
MS Integration Params: rteint.p

Vial: 20
Operator: DONGMEI
Inst : MSV
Multiplr: 1.00

Quant Time: Oct 21 10:19:14 2010

Results File: MVS4452.RES

Method : C:\MSDCHEM\1\METHODS\MVS4452.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Oct 21 13:01:18 2010
Response via : Multiple Level Calibration



(78) 2-nitropropane

12.17min 47.50ug/L

response 6368

Ion	Exp%	Act%
46.00	100	100
38.00	54.60	57.40
44.00	130.20	130.17
41.00	1553.60	1553.58

v105734.d MVS4452.M

Thu Oct 21 15:42:30 2010

RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105735.D
 Acq On : 5 Aug 2010 2:24 am
 Operator : DONGMEI
 Sample : IC4452-100
 Misc : MS230,VV4452,5.0,,,,1
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 06 09:00:49 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 08:56:13 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.46	65	105599	500.00	ug/L	0.00
4) pentafluorobenzene	9.67	168	274002	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.61	114	449014	50.00	ug/L	0.00
93) chlorobenzene-d5	14.03	117	430264	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.65	152	224566	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.72	113	312109	99.24	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	198.48%#
58) 1,2-dichloroethane-d4 (s)	10.15	65	322427	101.60	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	203.20%#
85) toluene-d8 (s)	12.35	98	1144282	99.07	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	198.14%#
109) 4-bromofluorobenzene (s)	15.34	95	459573	96.70	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	193.40%#

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.56	59	218348	481.87	ug/L	100
3) 1,4-dioxane	11.37	88	85643	2613.62	ug/L #	98
13) chlorodifluoromethane	4.25	51	227048	96.48	ug/L	96
14) dichlorodifluoromethane	4.24	85	328349	101.56	ug/L	99
15) chloromethane	4.55	50	502359	98.15	ug/L	99
16) vinyl chloride	4.80	62	422185	102.01	ug/L	100
17) bromomethane	5.40	96	307870	102.27	ug/L	97
18) chloroethane	5.57	64	246799	97.13	ug/L	96
19) trichlorofluoromethane	5.98	101	414881	106.45	ug/L	97
21) ethyl ether	6.39	74	190696	109.68	ug/L	96
27) acrolein	6.63	56	543965	979.89	ug/L	98
28) freon 113	6.77	151	204399	104.62	ug/L	99
29) 1,1-dichloroethene	6.81	96	269219	101.63	ug/L	98
30) acetone	6.88	58	27932	113.51	ug/L #	51
31) iso-butyl alcohol	10.24	74	106829	1060.05	ug/L	98
32) allyl chloride	7.31	78	56225	98.37	ug/L	95
33) acetonitrile	7.27	40	226433	1062.70	ug/L	96
34) iodomethane	7.09	142	596096	107.89	ug/L	97
35) carbon disulfide	7.22	76	884824	106.28	ug/L	97
36) methylene chloride	7.49	84	369298	92.89	ug/L	99
37) methyl acetate	7.30	74	51087	120.93	ug/L #	84
38) methyl tert butyl ether	7.81	73	960660	102.50	ug/L	99
39) trans-1,2-dichloroethene	7.86	96	318519	103.78	ug/L	99
40) di-isopropyl ether	8.38	45	1083806	99.67	ug/L	97
41) 2-butanone	9.13	72	34223	113.89	ug/L #	90
42) 1,1-dichloroethane	8.42	63	564604	107.41	ug/L	98
43) chloroprene	8.54	53	368525	102.55	ug/L	98
44) acrylonitrile	7.80	53	520423	567.55	ug/L	99
45) vinyl acetate	8.41	86	45003	112.99	ug/L #	22
46) ethyl tert-butyl ether	8.85	59	1070313	103.55	ug/L	99
47) ethyl acetate	9.14	45	41739	106.95	ug/L #	32
48) 2,2-dichloropropane	9.16	77	383457	100.66	ug/L	98
49) cis-1,2-dichloroethene	9.16	96	371329	106.52	ug/L	95

MVS4452.M Fri Aug 06 18:45:28 2010 RPT1

Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105735.D
 Acq On : 5 Aug 2010 2:24 am
 Operator : DONGMEI
 Sample : IC4452-100
 Misc : MS230,VV4452,5.0,,,1
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 06 09:00:49 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 08:56:13 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) propionitrile	9.21	54	418476	1127.55	ug/L	93
51) methyl acrylate	9.23	85	45819	118.09	ug/L #	83
52) methacrylonitrile	9.40	67	123929	107.57	ug/L	96
53) bromochloromethane	9.47	128	191042	110.30	ug/L	96
54) tetrahydrofuran	9.53	42	94280	100.57	ug/L	98
55) chloroform	9.52	83	548808	104.42	ug/L	99
56) tert-Butyl Formate	9.55	59	262733	114.17	ug/L #	98
59) 1,1,1-trichloroethane	9.79	97	427471	109.08	ug/L	98
60) Cyclohexane	9.87	84	390535	101.75	ug/L	93
61) Tert Amyl Alcohol	10.08	55	52991	643.85	ug/L	88
63) methylcyclohexane	11.20	83	465807	99.33	ug/L	99
64) epichlorohydrin	11.93	57	144251	550.17	ug/L	98
65) n-butyl alcohol	10.73	56	490672	5752.54	ug/L	96
66) carbon tetrachloride	10.00	117	356418	106.44	ug/L	98
67) 1,1-dichloropropene	9.97	75	377303	107.87	ug/L	98
68) hexane	8.16	57	322519	92.69	ug/L	98
69) 2,2,4-Trimethylpentane	10.23	57	983959	99.91	ug/L #	99
70) benzene	10.24	78	1281314	105.75	ug/L	99
71) tert-amyl methyl ether	10.26	73	1054783	97.94	ug/L	100
72) heptane	10.40	57	185677	97.74	ug/L	98
73) isopropyl acetate	10.13	61	122627	100.04	ug/L	93
74) 1,2-dichloroethane	10.24	62	370768	109.01	ug/L	95
75) trichloroethene	10.97	95	318146	101.75	ug/L	99
77) tert-Amyl Ethyl Ether	11.12	87	530065	101.27	ug/L	99
79) 2-chloroethyl vinyl ether	11.78	63	712836	538.06	ug/L	98
80) methyl methacrylate	11.25	100	91772	107.96	ug/L #	81
81) 1,2-dichloropropane	11.23	63	355132	105.08	ug/L	99
82) dibromomethane	11.41	93	200731	106.82	ug/L	95
83) bromodichloromethane	11.54	83	447812	105.48	ug/L	99
84) cis-1,3-dichloropropene	12.02	75	570190	105.16	ug/L	97
86) 4-methyl-2-pentanone	12.13	58	129906	107.28	ug/L	95
87) toluene	12.43	92	841149	95.90	ug/L	97
88) isoamyl alcohol	12.15	55	259495	2201.94	ug/L	94
89) trans-1,3-dichloropropene	12.64	75	506881	108.92	ug/L	97
90) ethyl methacrylate	12.63	69	433560	107.81	ug/L	98
91) 1,1,2-trichloroethane	12.87	83	264286	104.52	ug/L	100
92) 2-hexanone	13.07	58	126577	117.95	ug/L	95
94) tetrachloroethene	13.08	166	460262	100.82	ug/L	98
95) 1,3-dichloropropane	13.07	76	510075	107.02	ug/L	94
96) butyl acetate	13.15	73	78287	118.81	ug/L	95
97) 3,3-Dimethyl-1-Butanol	13.25	69	215657	1088.81	ug/L	97
98) dibromochloromethane	13.37	129	399660	106.41	ug/L	99
99) 1,2-dibromoethane	13.55	107	330171	109.50	ug/L	99
100) chlorobenzene	14.06	112	1026265	106.73	ug/L	98
101) 1,1,1,2-tetrachloroethane	14.12	131	375181	106.54	ug/L	97
102) ethylbenzene	14.12	91	1552535	107.88	ug/L	97
103) m,p-xylene	14.24	106	1267552	216.58	ug/L	96
104) o-xylene	14.71	106	653406	108.76	ug/L	99
105) styrene	14.73	104	1152793	108.29	ug/L	99
107) bromoform	15.03	173	293050	110.93	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105735.D
 Acq On : 5 Aug 2010 2:24 am
 Operator : DONGMEI
 Sample : IC4452-100
 Misc : MS230,VV4452,5.0,,,1
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 06 09:00:49 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 08:56:13 2010
 Response via : Initial Calibration

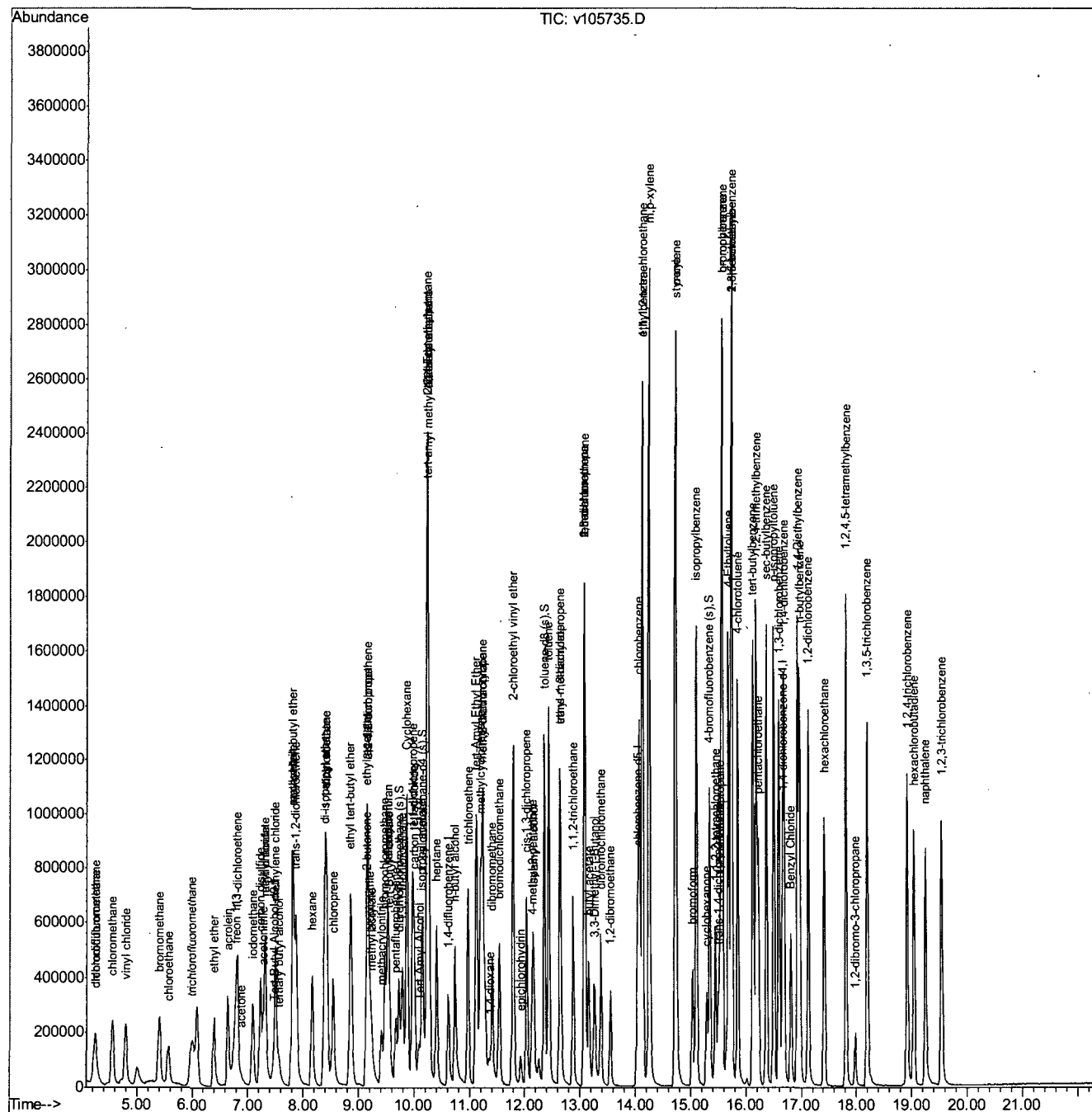
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) cyclohexanone	15.28	55	206487	1151.60	ug/L	95
111) isopropylbenzene	15.09	105	1546151	104.53	ug/L	99
112) bromobenzene	15.56	156	488605	106.08	ug/L	97
113) 1,1,2,2-tetrachloroethane	15.44	83	392483	103.25	ug/L	97
114) trans-1,4-dichloro-2-buten	15.49	53	81082	107.06	ug/L	98
115) 1,2,3-trichloropropane	15.52	110	104528	104.57	ug/L	99
116) n-propylbenzene	15.56	91	1721314	103.19	ug/L	99
117) 4-Ethyltoluene	15.68	105	1487903	105.92	ug/L	97
118) 2-chlorotoluene	15.73	126	408486	103.35	ug/L	98
119) 4-chlorotoluene	15.84	91	1154724	103.08	ug/L	100
120) 1,3,5-trimethylbenzene	15.73	105	1270788	91.71	ug/L	62
121) tert-butylbenzene	16.12	119	1110819	106.89	ug/L	98
122) pentachloroethane	16.22	167	244148	108.88	ug/L	93
123) 1,2,4-trimethylbenzene	16.18	105	1299139	103.16	ug/L	100
124) sec-butylbenzene	16.37	105	1599078	105.71	ug/L	99
125) 1,3-dichlorobenzene	16.59	146	830058	107.49	ug/L	99
126) p-isopropyltoluene	16.50	119	1321459	107.34	ug/L	98
128) 1,4-dichlorobenzene	16.68	146	869765	100.67	ug/L	99
129) 1,2-dichlorobenzene	17.12	146	820174	105.46	ug/L	99
130) Benzyl Chloride	16.80	91	550911	114.29	ug/L	99
132) 1,4-Diethylbenzene	16.93	119	788862	107.59	ug/L	97
133) n-butylbenzene	16.96	92	668057	115.23	ug/L	98
134) 1,2,4,5-tetramethylbenzene	17.80	119	1263510	108.45	ug/L	99
135) 1,2-dibromo-3-chloropropan	17.97	75	60892	107.85	ug/L	98
136) 1,3,5-trichlorobenzene	18.19	180	644490	109.95	ug/L	98
137) 1,2,4-trichlorobenzene	18.91	180	565767	110.45	ug/L	99
138) hexachlorobutadiene	19.04	225	307687	106.15	ug/L	96
139) naphthalene	19.24	128	1088444	117.63	ug/L	99
140) 1,2,3-trichlorobenzene	19.54	180	529594	114.80	ug/L	98
141) hexachloroethane	17.41	201	268533	108.96	ug/L	99

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

(QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\av4452\  
Data File   : v105735.D  
Acq On      : 5 Aug 2010    2:24 am  
Operator    : DONGMEI  
Sample      : IC4452-100  
Misc        : MS230,VV4452,5.0,,,,,1  
ALS Vial    : 21    Sample Multiplier: 1
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Quant Time: Aug 06 09:00:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Aug 06 08:56:13 2010
Response via : Initial Calibration



6.6.20 6

Quantitation Report (Qedit)

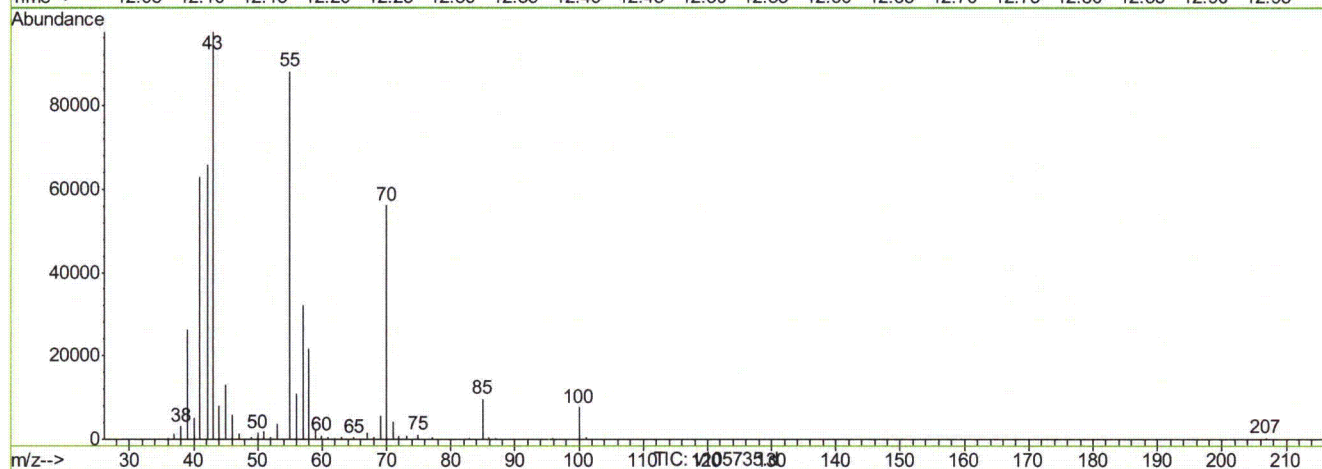
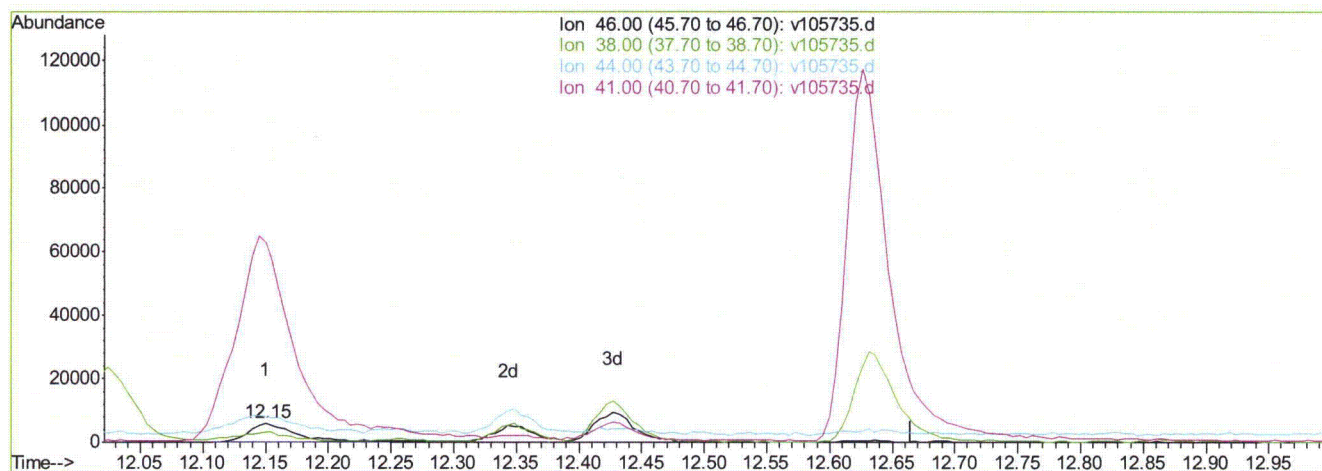
Data File : C:\VV4452\v105735.d
Acq On : 5 Aug 2010 2:24 am
Sample : IC4452-100
Misc : MS230,VV4452,5.0,,,1
MS Integration Params: rteint.p

Vial: 21
Operator: DONGMEI
Inst : MSV
Multiplr: 1.00

Quant Time: Oct 21 10:19:18 2010

Results File: MVS4452.RES

Method : C:\MSDCHEM\1\METHODS\MVS4452.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Oct 21 13:01:18 2010
Response via : Multiple Level Calibration



(78) 2-nitropropane

12.15min 109.90ug/L

response 15760

Ion	Exp%	Act%
46.00	100	100
38.00	54.60	50.06
44.00	130.20	134.39
41.00	1553.60	1396.36

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105736.D
 Acq On : 5 Aug 2010 2:55 am
 Operator : DONGMEI
 Sample : IC4452-200
 Misc : MS230,VV4452,5.0,,,1
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 06 09:04:37 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 08:56:13 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.45	65	104459	500.00	ug/L	0.00
4) pentafluorobenzene	9.67	168	276697	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.61	114	458923	50.00	ug/L	0.00
93) chlorobenzene-d5	14.03	117	432190	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.65	152	230775	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.72	113	622874	196.13	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 127	Recovery	=	392.26%#
58) 1,2-dichloroethane-d4 (s)	10.15	65	588759	183.71	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	367.42%#
85) toluene-d8 (s)	12.34	98	2204520	186.74	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	373.48%#
109) 4-bromofluorobenzene (s)	15.34	95	915067	191.68	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	383.36%#

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.56	59	387627	864.79	ug/L	100
3) 1,4-dioxane	11.35	88	172158	5311.18	ug/L	# 96
13) chlorodifluoromethane	4.25	51	412427	173.55	ug/L	95
14) dichlorodifluoromethane	4.24	85	658969	201.84	ug/L	97
15) chloromethane	4.56	50	966462	187.00	ug/L	99
16) vinyl chloride	4.80	62	823819	197.11	ug/L	99
17) bromomethane	5.38	96	560405	184.35	ug/L	100
18) chloroethane	5.55	64	484581	188.86	ug/L	96
19) trichlorofluoromethane	5.97	101	804971	204.53	ug/L	96
21) ethyl ether	6.38	74	366313	208.63	ug/L	99
27) acrolein	6.62	56	1068413	1905.87	ug/L	100
28) freon 113	6.76	151	392766	199.08	ug/L	100
29) 1,1-dichloroethene	6.80	96	501100	187.32	ug/L	98
30) acetone	6.87	58	49808	200.44	ug/L	73
31) iso-butyl alcohol	10.24	74	200865	1973.74	ug/L	91
32) allyl chloride	7.30	78	105542	182.85	ug/L	98
33) acetonitrile	7.27	40	447283	2078.74	ug/L	97
34) iodomethane	7.08	142	1116530	200.12	ug/L	97
35) carbon disulfide	7.22	76	1664116	197.94	ug/L	99
36) methylene chloride	7.49	84	698298	173.93	ug/L	98
37) methyl acetate	7.29	74	98285	230.39	ug/L	92
38) methyl tert butyl ether	7.80	73	1828356	193.19	ug/L	99
39) trans-1,2-dichloroethene	7.86	96	603487	194.70	ug/L	99
40) di-isopropyl ether	8.38	45	2070258	188.53	ug/L	# 67
41) 2-butanone	9.12	72	64364	212.12	ug/L	95
42) 1,1-dichloroethane	8.42	63	1067096	201.03	ug/L	96
43) chloroprene	8.53	53	714604	196.92	ug/L	99
44) acrylonitrile	7.80	53	993905	1073.36	ug/L	99
45) vinyl acetate	8.39	86	94173	234.14	ug/L	# 18
46) ethyl tert-butyl ether	8.85	59	2041139	195.56	ug/L	99
47) ethyl acetate	9.13	45	82017	208.11	ug/L	# 1
48) 2,2-dichloropropane	9.15	77	717923	186.62	ug/L	96
49) cis-1,2-dichloroethene	9.15	96	706325	200.64	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105736.D
 Acq On : 5 Aug 2010 2:55 am
 Operator : DONGMEI
 Sample : IC4452-200
 Misc : MS230,VV4452,5.0,,,1
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 06 09:04:37 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 08:56:13 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) propionitrile	9.19	54	785528	2095.94	ug/L	86
51) methyl acrylate	9.22	85	85540	218.32	ug/L #	68
52) methacrylonitrile	9.40	67	234373	201.45	ug/L	93
53) bromochloromethane	9.47	128	365210	208.80	ug/L	98
54) tetrahydrofuran	9.52	42	179453	189.55	ug/L	98
55) chloroform	9.51	83	1048703	197.59	ug/L	98
56) tert-Butyl Formate	9.55	59	521927	224.59	ug/L #	99
59) 1,1,1-trichloroethane	9.79	97	798003	201.64	ug/L	99
60) Cyclohexane	9.87	84	732936	189.10	ug/L	97
61) Tert Amyl Alcohol	10.08	55	105789	1272.83	ug/L #	87
63) methylcyclohexane	11.20	83	884239	184.49	ug/L	98
64) epichlorohydrin	11.92	57	273926	1022.19	ug/L	98
65) n-butyl alcohol	10.72	56	953400	10936.12	ug/L	97
66) carbon tetrachloride	10.00	117	673923	196.91	ug/L	98
67) 1,1-dichloropropene	9.97	75	709278	198.40	ug/L	97
68) hexane	8.15	57	597679	168.07	ug/L	98
69) 2,2,4-Trimethylpentane	10.23	57	1844202	183.22	ug/L #	99
70) benzene	10.23	78	2413785	194.91	ug/L	99
71) tert-amyl methyl ether	10.26	73	2019861	183.51	ug/L	100
72) heptane	10.40	57	353629	182.13	ug/L	98
73) isopropyl acetate	10.13	61	237065	189.22	ug/L	94
74) 1,2-dichloroethane	10.24	62	706315	203.17	ug/L	97
75) trichloroethene	10.97	95	601079	188.08	ug/L	97
77) tert-Amyl Ethyl Ether	11.12	87	1041969	194.77	ug/L	98
79) 2-chloroethyl vinyl ether	11.78	63	1433597	1058.74	ug/L	99
80) methyl methacrylate	11.23	100	172557	198.61	ug/L #	81
81) 1,2-dichloropropane	11.23	63	669702	193.88	ug/L	96
82) dibromomethane	11.40	93	384619	200.26	ug/L	93
83) bromodichloromethane	11.53	83	846312	195.04	ug/L	100
84) cis-1,3-dichloropropene	12.02	75	1070130	193.09	ug/L	96
86) 4-methyl-2-pentanone	12.12	58	240171	194.06	ug/L	91
87) toluene	12.42	92	1584988	176.80	ug/L	97
88) isoamyl alcohol	12.14	55	514056	4267.84	ug/L	92
89) trans-1,3-dichloropropene	12.63	75	959697	201.76	ug/L	95
90) ethyl methacrylate	12.62	69	814895	198.26	ug/L	98
91) 1,1,2-trichloroethane	12.87	83	505841	195.73	ug/L	97
92) 2-hexanone	13.06	58	245173	223.53	ug/L	99
94) tetrachloroethene	13.08	166	789845	172.24	ug/L	99
95) 1,3-dichloropropane	13.07	76	958746	200.25	ug/L	95
96) butyl acetate	13.14	73	146962	222.05	ug/L	100
97) 3,3-Dimethyl-1-Butanol	13.25	69	429432	2158.46	ug/L	93
98) dibromochloromethane	13.37	129	763566	202.40	ug/L	99
99) 1,2-dibromoethane	13.54	107	623329	205.81	ug/L	99
100) chlorobenzene	14.06	112	1902478	196.98	ug/L	99
101) 1,1,1,2-tetrachloroethane	14.12	131	719920	203.53	ug/L	98
102) ethylbenzene	14.12	91	2877865	199.09	ug/L	97
103) m,p-xylene	14.24	106	2365370	402.36	ug/L	93
104) o-xylene	14.71	106	1229495	203.73	ug/L	98
105) styrene	14.72	104	2187927	204.61	ug/L	97
107) bromoform	15.03	173	558543	210.49	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\av4452\
 Data File : v105736.D
 Acq On : 5 Aug 2010 2:55 am
 Operator : DONGMEI
 Sample : IC4452-200
 Misc : MS230,VV4452,5.0,,,1
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 06 09:04:37 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Fri Aug 06 08:56:13 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) cyclohexanone	15.28	55	336986	1871.03	ug/L	96
111) isopropylbenzene	15.09	105	2852073	187.63	ug/L	99
112) bromobenzene	15.55	156	936459	197.85	ug/L	98
113) 1,1,2,2-tetrachloroethane	15.44	83	756664	193.71	ug/L	97
114) trans-1,4-dichloro-2-buten	15.49	53	160744	206.53	ug/L	93
115) 1,2,3-trichloropropane	15.52	110	198501	193.24	ug/L	97
116) n-propylbenzene	15.56	91	3252017	189.71	ug/L	98
117) 4-Ethyltoluene	15.68	105	2846962	197.22	ug/L	97
118) 2-chlorotoluene	15.73	126	781090	192.30	ug/L	94
119) 4-chlorotoluene	15.84	91	2156794	187.36	ug/L	98
120) 1,3,5-trimethylbenzene	15.73	105	2446966	171.84	ug/L	62
121) tert-butylbenzene	16.12	119	2110860	197.65	ug/L	97
122) pentachloroethane	16.22	167	531177	230.52	ug/L	94
123) 1,2,4-trimethylbenzene	16.18	105	2482344	191.82	ug/L	99
124) sec-butylbenzene	16.37	105	3013290	193.85	ug/L	97
125) 1,3-dichlorobenzene	16.59	146	1599616	201.58	ug/L	99
126) p-isopropyltoluene	16.50	119	2516248	198.89	ug/L	97
128) 1,4-dichlorobenzene	16.68	146	1645418	185.32	ug/L	99
129) 1,2-dichlorobenzene	17.12	146	1588843	198.81	ug/L	98
130) Benzyl Chloride	16.80	91	1125069	227.12	ug/L	98
132) 1,4-Diethylbenzene	16.93	119	1599767	212.32	ug/L	98
133) n-butylbenzene	16.96	92	1306362	219.26	ug/L	96
134) 1,2,4,5-tetramethylbenzene	17.80	119	2559269	213.76	ug/L	98
135) 1,2-dibromo-3-chloropropan	17.97	75	118691	204.56	ug/L	97
136) 1,3,5-trichlorobenzene	18.19	180	1267564	210.43	ug/L	98
137) 1,2,4-trichlorobenzene	18.91	180	1140567	216.67	ug/L	99
138) hexachlorobutadiene	19.03	225	609858	204.73	ug/L	98
139) naphthalene	19.24	128	2158594	227.00	ug/L	98
140) 1,2,3-trichlorobenzene	19.53	180	1055480	222.63	ug/L	94
141) hexachloroethane	17.41	201	522509	206.32	ug/L	99

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

Quantitation Report (Qedit)

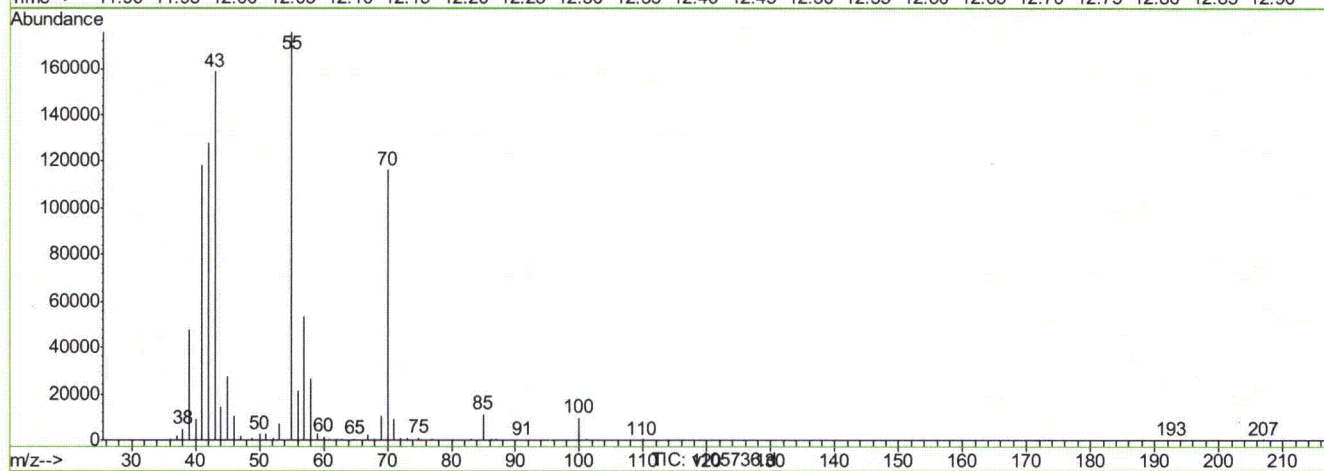
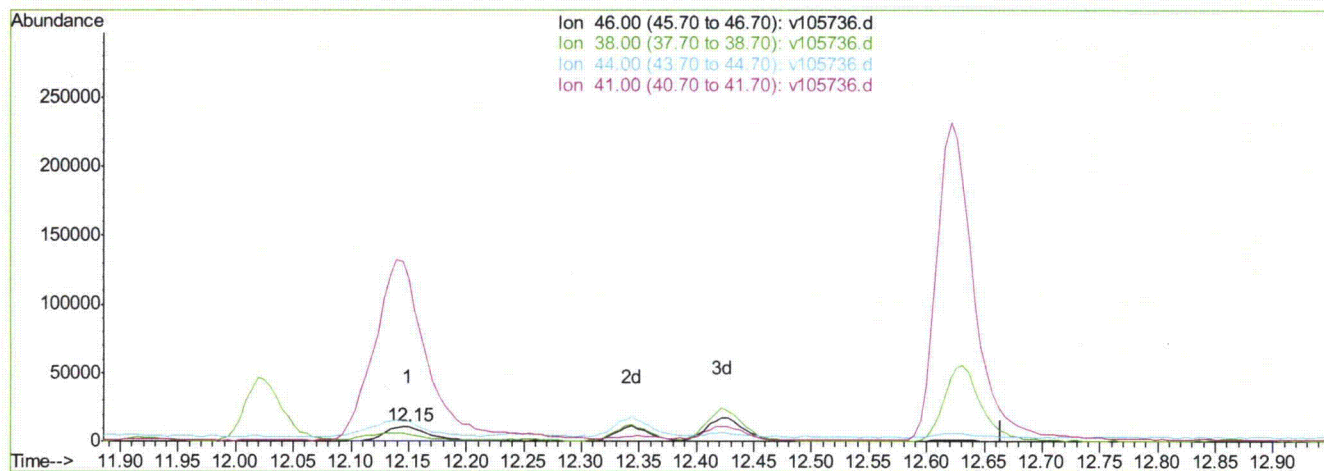
Data File : C:\VV4452\v105736.d
Acq On : 5 Aug 2010 2:55 am
Sample : IC4452-200
Misc : MS230,VV4452,5.0,,,1
MS Integration Params: rteint.p

Vial: 22
Operator: DONGMEI
Inst : MSV
Multiplr: 1.00

Quant Time: Oct 21 10:19:22 2010

Results File: MVS4452.RES

Method : C:\MSDCHEM\1\METHODS\MVS4452.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Oct 21 13:01:18 2010
Response via : Multiple Level Calibration



(78) 2-nitropropane

12.15min 195.91ug/L

response 29113

Ion	Exp%	Act%
46.00	100	100
38.00	54.60	58.76
44.00	130.20	138.58
41.00	1553.60	1463.41

v105736.d MVS4452.M

Thu Oct 21 15:42:52 2010

RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\VV4452\
 Data File : v105739.d
 Acq On : 5 Aug 2010 4:28 am
 Operator : DONGMEI
 Sample : ICV4452-50
 Misc : MS230,VV4452,5.0,,,,1
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 25 12:01:16 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 Qlast Update : Mon Oct 25 12:01:12 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.45	65	101756	500.00	ug/L	0.00
4) pentafluorobenzene	9.67	168	292010	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.62	114	465474	50.00	ug/L	0.00
93) chlorobenzene-d5	14.03	117	447501	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.65	152	228042	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.73	113	159352	47.54	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	95.08%
58) 1,2-dichloroethane-d4 (s)	10.16	65	159719	47.22	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	94.44%
85) toluene-d8 (s)	12.35	98	575377	48.05	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	96.10%
109) 4-bromofluorobenzene (s)	15.34	95	228354	45.05	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	90.10%

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.57	59	103170	233.23	ug/L	100
3) 1,4-dioxane	11.37	88	39486	1250.53	ug/L #	99
13) chlorodifluoromethane	4.24	51	104140	41.52	ug/L	94
14) dichlorodifluoromethane	4.24	85	141800	42.03	ug/L	98
15) chloromethane	4.55	50	230624	42.10	ug/L	99
16) vinyl chloride	4.79	62	199124	45.15	ug/L	99
17) bromomethane	5.41	96	140589	43.82	ug/L	99
18) chloroethane	5.57	64	119422	44.10	ug/L	95
19) trichlorofluoromethane	5.98	101	196570	47.33	ug/L	95
21) ethyl ether	6.39	74	98317	54.10	ug/L	97
27) acrolein	6.64	56	283321	493.89	ug/L	99
28) freon 113	6.77	151	96959	46.64	ug/L	99
29) 1,1-dichloroethene	6.81	96	141186	50.65	ug/L	94
30) acetone	6.89	58	13081	48.69	ug/L	78
31) iso-butyl alcohol	10.24	74	54390	506.42	ug/L	90
32) allyl chloride	7.31	78	32701	53.68	ug/L	96
33) acetonitrile	7.29	40	111484	490.95	ug/L #	71
34) iodomethane	7.09	142	321345	56.50	ug/L	99
35) carbon disulfide	7.22	76	516205	59.37	ug/L	98
36) methylene chloride	7.50	84	199015	46.97	ug/L	98
37) methyl acetate	7.32	74	22144	44.28	ug/L	91
38) methyl tert butyl ether	7.81	73	502616	50.32	ug/L	99
39) trans-1,2-dichloroethene	7.87	96	159884	49.83	ug/L	96
40) di-isopropyl ether	8.39	45	532561	46.05	ug/L	98
41) 2-butanone	9.15	72	17474	54.57	ug/L #	76
42) 1,1-dichloroethane	8.42	63	300013	54.96	ug/L	98
43) chloroprene	8.54	53	180632	47.17	ug/L	98
44) acrylonitrile	7.82	53	255328	261.28	ug/L	95
45) vinyl acetate	8.43	86	21061	47.17	ug/L	79
46) ethyl tert-butyl ether	8.86	59	522323	47.57	ug/L	99
47) ethyl acetate	9.15	45	23589	51.24	ug/L	81
48) 2,2-dichloropropane	9.16	77	202029	49.76	ug/L	98
49) cis-1,2-dichloroethene	9.16	96	213472	59.12	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\VV4452\
 Data File : v105739.d
 Acq On : 5 Aug 2010 4:28 am
 Operator : DONGMEI
 Sample : ICV4452-50
 Misc : MS230,VV4452,5.0,,,1
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 25 12:01:16 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Oct 25 12:01:12 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) propionitrile	9.22	54	203565	514.67	ug/L	96
51) methyl acrylate	9.27	85	20130	48.68	ug/L #	88
52) methacrylonitrile	9.42	67	60495	49.27	ug/L	96
53) bromochloromethane	9.48	128	100760	54.59	ug/L	99
54) tetrahydrofuran	9.54	42	49280	49.32	ug/L	97
55) chloroform	9.52	83	294605	52.47	ug/L	96
56) tert-Butyl Formate	9.56	59	123356	50.30	ug/L #	99
59) 1,1,1-trichloroethane	9.79	97	222518	54.27	ug/L	98
60) Cyclohexane	9.87	84	207327	50.26	ug/L	88
61) Tert Amyl Alcohol	10.10	55	22657	218.13	ug/L	98
63) methylcyclohexane	11.20	83	230192	48.67	ug/L	97
64) epichlorohydrin	11.94	57	66233	243.68	ug/L	98
65) n-butyl alcohol	10.75	56	214026	2420.47	ug/L	100
66) carbon tetrachloride	10.00	117	187906	54.13	ug/L	98
67) 1,1-dichloropropene	9.98	75	200592	55.32	ug/L	99
68) hexane	8.16	57	152505	46.38	ug/L	99
69) 2,2,4-Trimethylpentane	10.23	57	486896	47.69	ug/L #	98
70) benzene	10.24	78	676815	53.88	ug/L	98
71) tert-amyl methyl ether	10.26	73	518213	45.52	ug/L	100
72) heptane	10.41	57	91660	46.54	ug/L	95
73) isopropyl acetate	10.15	61	57503	47.92	ug/L #	88
74) 1,2-dichloroethane	10.25	62	197283	55.95	ug/L	91
75) trichloroethene	10.97	95	170320	53.43	ug/L	99
77) tert-Amyl Ethyl Ether	11.13	87	268423	49.47	ug/L	99
78) 2-nitropropane	12.17	46	6613	46.50	ug/L #	92
79) 2-chloroethyl vinyl ether	11.79	63	329848	240.17	ug/L	99
80) methyl methacrylate	11.26	100	46443	54.40	ug/L	91
81) 1,2-dichloropropane	11.23	63	188227	54.16	ug/L	98
82) dibromomethane	11.41	93	106897	54.87	ug/L	97
83) bromodichloromethane	11.54	83	239254	55.53	ug/L	99
84) cis-1,3-dichloropropene	12.03	75	296472	53.71	ug/L	97
86) 4-methyl-2-pentanone	12.13	58	63103	50.27	ug/L	96
87) toluene	12.43	92	443771	48.80	ug/L	98
88) isoamyl alcohol	12.16	55	120094	983.02	ug/L	99
89) trans-1,3-dichloropropene	12.64	75	258756	53.63	ug/L	97
90) ethyl methacrylate	12.64	69	223288	53.56	ug/L	97
91) 1,1,2-trichloroethane	12.87	83	141127	53.96	ug/L	95
92) 2-hexanone	13.09	58	61710	55.47	ug/L	97
94) tetrachloroethene	13.08	166	227080	47.83	ug/L	95
95) 1,3-dichloropropane	13.08	76	266737	54.78	ug/L	98
96) butyl acetate	13.16	73	39645	51.46	ug/L	89
97) 3,3-Dimethyl-1-Butanol	13.27	69	90373	438.70	ug/L	90
98) dibromochloromethane	13.37	129	207551	54.55	ug/L	96
99) 1,2-dibromoethane	13.55	107	174469	55.63	ug/L	99
100) chlorobenzene	14.07	112	535324	55.00	ug/L	99
101) 1,1,1,2-tetrachloroethane	14.12	131	197474	55.65	ug/L	98
102) ethylbenzene	14.12	91	810518	54.15	ug/L	99
103) m,p-xylene	14.24	106	662486	109.28	ug/L	99
104) o-xylene	14.72	106	344693	55.16	ug/L	98
105) styrene	14.73	104	597015	54.65	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\VV4452\
 Data File : v105739.d
 Acq On : 5 Aug 2010 4:28 am
 Operator : DONGMEI
 Sample : ICV4452-50
 Misc : MS230,VV4452,5.0,,,1
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 25 12:01:16 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Oct 25 12:01:12 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) bromoform	15.03	173	151731	55.22	ug/L	98
108) cyclohexanone	15.29	55	57050	300.56	ug/L	94
111) isopropylbenzene	15.10	105	796625	53.76	ug/L	97
112) bromobenzene	15.57	156	251166	54.37	ug/L	89
113) 1,1,2,2-tetrachloroethane	15.44	83	204967	53.10	ug/L	99
114) trans-1,4-dichloro-2-buten	15.50	53	43729	56.86	ug/L #	81
115) 1,2,3-trichloropropane	15.53	110	53274	53.68	ug/L	93
116) n-propylbenzene	15.57	91	874140	51.78	ug/L	99
117) 4-Ethyltoluene	15.68	105	729822	51.84	ug/L	100
118) 2-chlorotoluene	15.74	126	213772	54.21	ug/L	95
119) 4-chlorotoluene	15.85	91	589639	51.41	ug/L	100
120) 1,3,5-trimethylbenzene	15.73	105	677634	52.89	ug/L	99
121) tert-butylbenzene	16.13	119	575201	55.93	ug/L	98
122) pentachloroethane	16.22	167	145216	63.77	ug/L	93
123) 1,2,4-trimethylbenzene	16.18	105	672634	52.31	ug/L	100
124) sec-butylbenzene	16.37	105	834206	54.93	ug/L	99
125) 1,3-dichlorobenzene	16.59	146	428313	55.97	ug/L	98
126) p-isopropyltoluene	16.50	119	703026	57.09	ug/L	99
128) 1,4-dichlorobenzene	16.68	146	448522	50.40	ug/L	99
129) 1,2-dichlorobenzene	17.12	146	421019	53.41	ug/L	99
130) Benzyl Chloride	16.82	91	233900	47.78	ug/L	100
132) 1,4-Diethylbenzene	16.93	119	389769	53.69	ug/L	98
133) n-butylbenzene	16.97	92	342288	58.14	ug/L	97
134) 1,2,4,5-tetramethylbenzene	17.81	119	627717	53.06	ug/L	100
135) 1,2-dibromo-3-chloropropan	17.98	75	29053	52.87	ug/L	90
136) 1,3,5-trichlorobenzene	18.19	180	329246	55.61	ug/L	98
137) 1,2,4-trichlorobenzene	18.92	180	282643	54.34	ug/L	99
138) hexachlorobutadiene	19.04	225	160405	54.49	ug/L	97
139) naphthalene	19.25	128	517381	55.06	ug/L	98
140) 1,2,3-trichlorobenzene	19.54	180	265459	58.09	ug/L	98
141) hexachloroethane	17.41	201	146859	58.68	ug/L	100

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

6.6.22

Quantitation Report (Qedit)

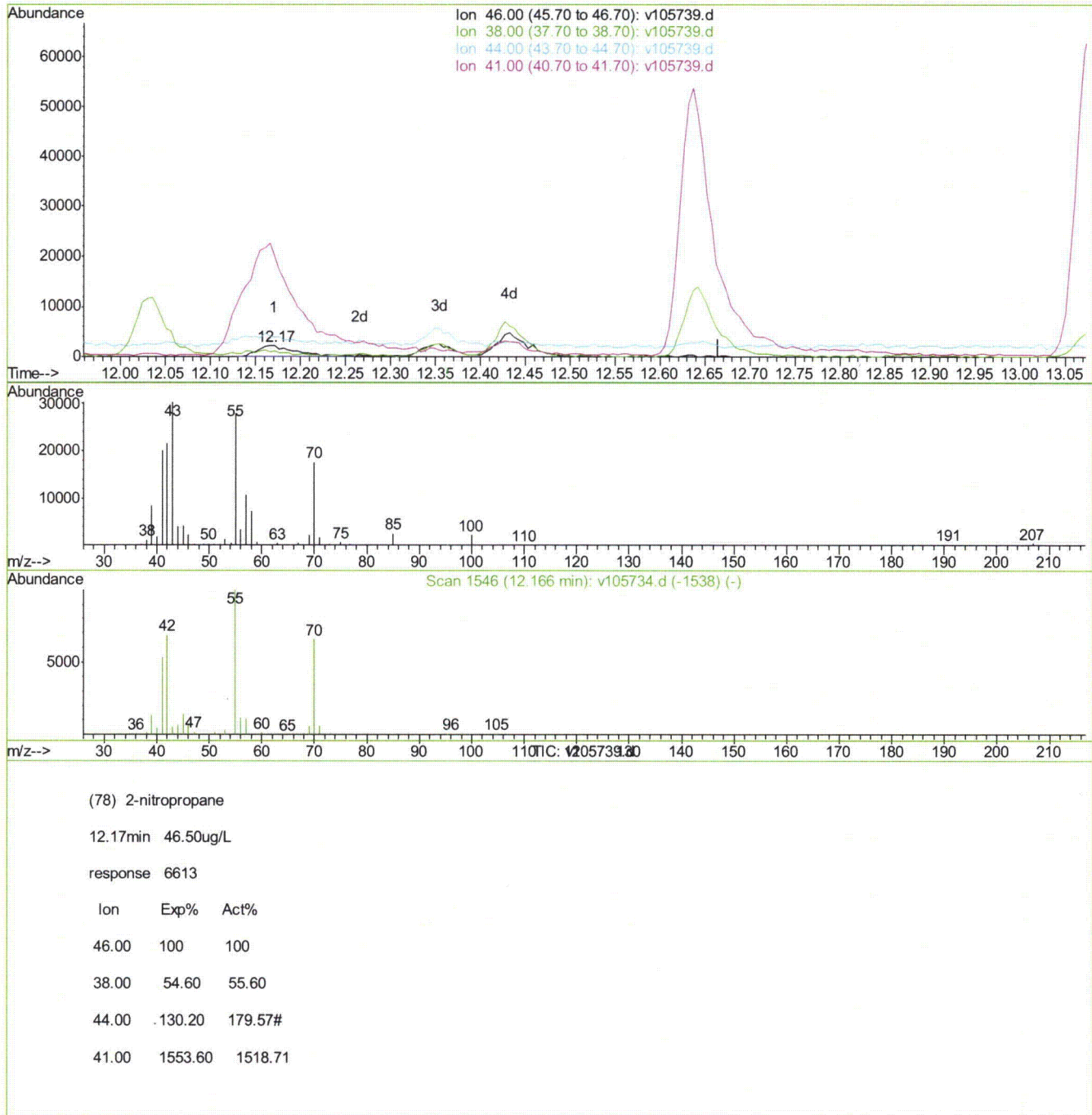
Data File : C:\VV4452\v105739.d
Acq On : 5 Aug 2010 4:28 am
Sample : ICV4452-50
Misc : MS230,VV4452,5.0,,,1
MS Integration Params: rteint.p

Vial: 25
Operator: DONGMEI
Inst : MSV
Multiplr: 1.00

Quant Time: Oct 21 10:19:26 2010

Results File: MVS4452.RES

Method : C:\MSDCHEM\1\METHODS\MVS4452.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Oct 21 13:01:18 2010
Response via : Multiple Level Calibration

6.6.22.1
6

v105739.d MVS4452.M

Thu Oct 21 15:43:07 2010

RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : V108506.D
 Acq On : 21 Oct 2010 11:00 am
 Operator : JIANHUAL
 Sample : CC4452-20
 Misc : MS3346,VV4577,5,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 17:20:59 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Thu Oct 21 17:19:02 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.44	65	101723	500.00	ug/L	-0.01
4) pentafluorobenzene	9.67	168	278806	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.62	114	430843	50.00	ug/L	0.00
93) chlorobenzene-d5	14.03	117	430470	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.65	152	237362	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.72	113	168474	52.65	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	105.30%
58) 1,2-dichloroethane-d4 (s)	10.16	65	169532	52.50	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	105.00%
85) toluene-d8 (s)	12.35	98	636787	57.46	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	114.92%
109) 4-bromofluorobenzene (s)	15.34	95	252127	51.71	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	103.42%

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.57	59	40966	92.64	ug/L	100
3) 1,4-dioxane	11.38	88	21594	684.11	ug/L #	91
13) chlorodifluoromethane	4.25	51	38520	16.09	ug/L	91
14) dichlorodifluoromethane	4.24	85	59792	18.56	ug/L	95
15) chloromethane	4.55	50	97150	18.57	ug/L	98
16) vinyl chloride	4.79	62	89591	21.27	ug/L	96
17) bromomethane	5.41	96	57788	18.87	ug/L	96
18) chloroethane	5.58	64	51242	19.82	ug/L	89
19) trichlorofluoromethane	6.02	101	84531	21.32	ug/L	94
21) ethyl ether	6.41	74	36292	20.92	ug/L	89
27) acrolein	6.65	56	129470	236.38	ug/L	99
28) freon 113	6.77	151	43511	21.92	ug/L	99
29) 1,1-dichloroethene	6.82	96	55422	20.82	ug/L	85
30) acetone	6.95	58	5477m	21.35	ug/L	
31) iso-butyl alcohol	10.26	74	21269	207.41	ug/L	82
32) allyl chloride	7.32	78	12001	20.63	ug/L #	76
33) acetonitrile	7.30	40	49126	226.59	ug/L #	39
34) iodomethane	7.09	142	113692	20.94	ug/L	96
35) carbon disulfide	7.23	76	190472	22.94	ug/L	99
36) methylene chloride	7.50	84	68260	16.87	ug/L	91
37) methyl acetate	7.35	74	8948	20.16	ug/L #	71
38) methyl tert butyl ether	7.81	73	184902	19.39	ug/L	97
39) trans-1,2-dichloroethene	7.88	96	63707	20.80	ug/L	97
40) di-isopropyl ether	8.39	45	205941	18.65	ug/L	98
41) 2-butanone	9.18	72	6851	22.41	ug/L #	85
42) 1,1-dichloroethane	8.43	63	114168	21.91	ug/L	98
43) chloroprene	8.55	53	71191	19.47	ug/L	96
44) acrylonitrile	7.84	53	104865	112.39	ug/L	99
45) vinyl acetate	8.49	86	5413	17.06	ug/L #	1
46) ethyl tert-butyl ether	8.86	59	203890	19.45	ug/L	98
47) ethyl acetate	9.20	45	8475	19.28	ug/L #	27
48) 2,2-dichloropropane	9.16	77	91421	23.59	ug/L	99
49) cis-1,2-dichloroethene	9.17	96	72105	20.92	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : V108506.D
 Acq On : 21 Oct 2010 11:00 am
 Operator : JIANHUAL
 Sample : CC4452-20
 Misc : MS3346,VV4577,5,,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 17:20:59 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 Qlast Update : Thu Oct 21 17:19:02 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) propionitrile	9.24	54	84805	224.56	ug/L	100
51) methyl acrylate	9.29	85	7557	19.14	ug/L #	40
52) methacrylonitrile	9.44	67	21799	18.60	ug/L	96
53) bromochloromethane	9.47	128	36292	20.59	ug/L	95
54) tetrahydrofuran	9.55	42	21647	22.69	ug/L	93
55) chloroform	9.52	83	112731	21.03	ug/L	98
56) tert-Butyl Formate	9.56	59	49991	21.35	ug/L #	98
59) 1,1,1-trichloroethane	9.79	97	90828	23.20	ug/L	94
60) Cyclohexane	9.86	84	81360	20.66	ug/L	90
61) Tert Amyl Alcohol	10.10	55	13933	147.59	ug/L #	57
63) methylcyclohexane	11.20	83	92999	21.24	ug/L	99
64) epichlorohydrin	11.95	57	29236	116.21	ug/L	95
65) n-butyl alcohol	10.76	56	107395	1312.18	ug/L	96
66) carbon tetrachloride	10.00	117	78820	24.53	ug/L	93
67) 1,1-dichloropropene	9.98	75	84030	25.04	ug/L	99
68) hexane	8.16	57	70124	20.95	ug/L	91
69) 2,2,4-Trimethylpentane	10.23	57	203981	21.59	ug/L #	99
70) benzene	10.24	78	257499	22.15	ug/L	98
71) tert-amyl methyl ether	10.26	73	196220	18.62	ug/L	96
72) heptane	10.41	57	39744	21.80	ug/L	96
73) isopropyl acetate	10.15	61	23563	21.64	ug/L #	68
74) 1,2-dichloroethane	10.25	62	81665	25.02	ug/L	93
75) trichloroethene	10.98	95	65713	22.27	ug/L	93
77) tert-Amyl Ethyl Ether	11.13	87	96032	19.12	ug/L	98
78) 2-nitropropane	12.17	46	2589	21.62	ug/L #	48
79) 2-chloroethyl vinyl ether	11.80	63	113822	89.54	ug/L	97
80) methyl methacrylate	11.27	100	16506	20.89	ug/L #	74
81) 1,2-dichloropropane	11.24	63	72254	22.46	ug/L	98
82) dibromomethane	11.42	93	41724	23.14	ug/L	89
83) bromodichloromethane	11.54	83	90916	22.80	ug/L	97
84) cis-1,3-dichloropropene	12.04	75	117911	23.08	ug/L	97
86) 4-methyl-2-pentanone	12.14	58	24576	21.15	ug/L	96
87) toluene	12.43	92	165222	19.63	ug/L	99
88) isoamyl alcohol	12.17	55	58798	519.97	ug/L	97
89) trans-1,3-dichloropropene	12.65	75	105638	23.66	ug/L	97
90) ethyl methacrylate	12.65	69	76864	19.92	ug/L	97
91) 1,1,2-trichloroethane	12.87	83	51787	21.39	ug/L	96
92) 2-hexanone	13.12	58	22005	21.37	ug/L	98
94) tetrachloroethene	13.08	166	81078	17.75	ug/L	97
95) 1,3-dichloropropane	13.08	76	101359	21.64	ug/L	95
96) butyl acetate	13.17	73	15565	20.75	ug/L	67
97) 3,3-Dimethyl-1-Butanol	13.27	69	43551	219.78	ug/L	90
98) dibromochloromethane	13.37	129	75405	20.60	ug/L	95
99) 1,2-dibromoethane	13.55	107	64602	21.42	ug/L	96
100) chlorobenzene	14.06	112	194851	20.81	ug/L	99
101) 1,1,1,2-tetrachloroethane	14.12	131	72599	21.27	ug/L	98
102) ethylbenzene	14.13	91	310205	21.55	ug/L	97
103) m,p-xylene	14.25	106	247790	42.49	ug/L	97
104) o-xylene	14.72	106	122319	20.35	ug/L	94
105) styrene	14.74	104	208193	19.81	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : V108506.D
 Acq On : 21 Oct 2010 11:00 am
 Operator : JIANHUAL
 Sample : CC4452-20
 Misc : MS3346,VV4577,5,,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 17:20:59 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Thu Oct 21 17:19:02 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) bromoform	15.03	173	55376	20.95	ug/L	97
108) cyclohexanone	15.29	55	107288	587.59	ug/L	95
111) isopropylbenzene	15.10	105	310620	20.14	ug/L	97
112) bromobenzene	15.57	156	92338	19.20	ug/L	95
113) 1,1,2,2-tetrachloroethane	15.44	83	82193	20.46	ug/L	97
114) trans-1,4-dichloro-2-buten	15.50	53	16403	20.49	ug/L	90
115) 1,2,3-trichloropropane	15.52	110	20993	20.32	ug/L	86
116) n-propylbenzene	15.56	91	363898	20.71	ug/L	97
117) 4-Ethyltoluene	15.68	105	298571	20.37	ug/L	98
118) 2-chlorotoluene	15.73	126	81612	19.88	ug/L	97
119) 4-chlorotoluene	15.85	91	228333	19.13	ug/L	99
120) 1,3,5-trimethylbenzene	15.73	105	271830	20.38	ug/L	97
121) tert-butylbenzene	16.12	119	221027	20.65	ug/L	95
122) pentachloroethane	16.21	167	56421	23.81	ug/L	91
123) 1,2,4-trimethylbenzene	16.18	105	256983	19.20	ug/L	96
124) sec-butylbenzene	16.37	105	330858	20.93	ug/L	98
125) 1,3-dichlorobenzene	16.59	146	160025	20.09	ug/L	99
126) p-isopropyltoluene	16.50	119	268419	20.94	ug/L	99
128) 1,4-dichlorobenzene	16.68	146	171853	18.55	ug/L	98
129) 1,2-dichlorobenzene	17.12	146	155630	18.97	ug/L	98
130) Benzyl Chloride	16.81	91	134621	26.42	ug/L	99
132) 1,4-Diethylbenzene	16.93	119	158184	20.94	ug/L	98
133) n-butylbenzene	16.97	92	135613	22.13	ug/L	99
134) 1,2,4,5-tetramethylbenzene	17.81	119	241878	19.64	ug/L	99
135) 1,2-dibromo-3-chloropropan	17.98	75	12128	21.20	ug/L	92
136) 1,3,5-trichlorobenzene	18.20	180	128240	20.81	ug/L	97
137) 1,2,4-trichlorobenzene	18.92	180	101170	18.69	ug/L	99
138) hexachlorobutadiene	19.03	225	60564	19.77	ug/L	95
139) naphthalene	19.26	128	194479	19.88	ug/L	98
140) 1,2,3-trichlorobenzene	19.54	180	93625	19.68	ug/L	91
141) hexachloroethane	17.41	201	50697	19.46	ug/L	98

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

Manual Integration Approval Summary

Page 1 of 1

Sample Number: VV4577-CC4452 **Method:** SW846 8260B
Lab FileID: V108506.D **Analyst approved:** 10/21/10 18:36 Jianhua Li
Injection Time: 10/21/10 11:00 **Supervisor approved:** 10/22/10 17:05 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetone	67-64-1		6.95	Poor instrument integration

6.6.23.1

6

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\V108506.D

Vial: 3

Acq On : 21 Oct 2010 11:00 am

Operator: JIANHUAL

Sample : CC4452-20

Inst : MSV

Misc : MS3346,VV4577,5,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 21 11:23:08 2010

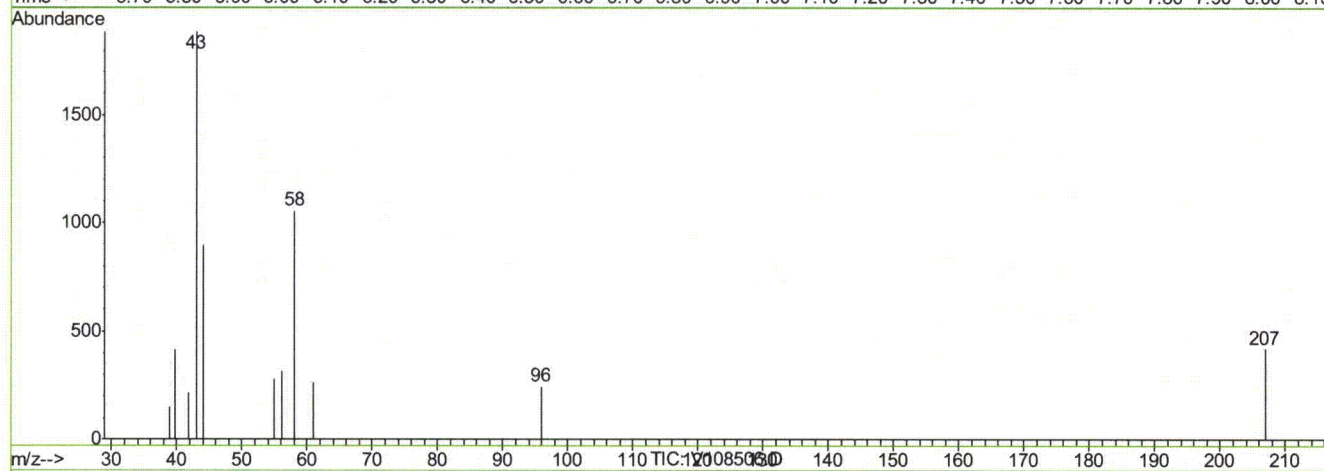
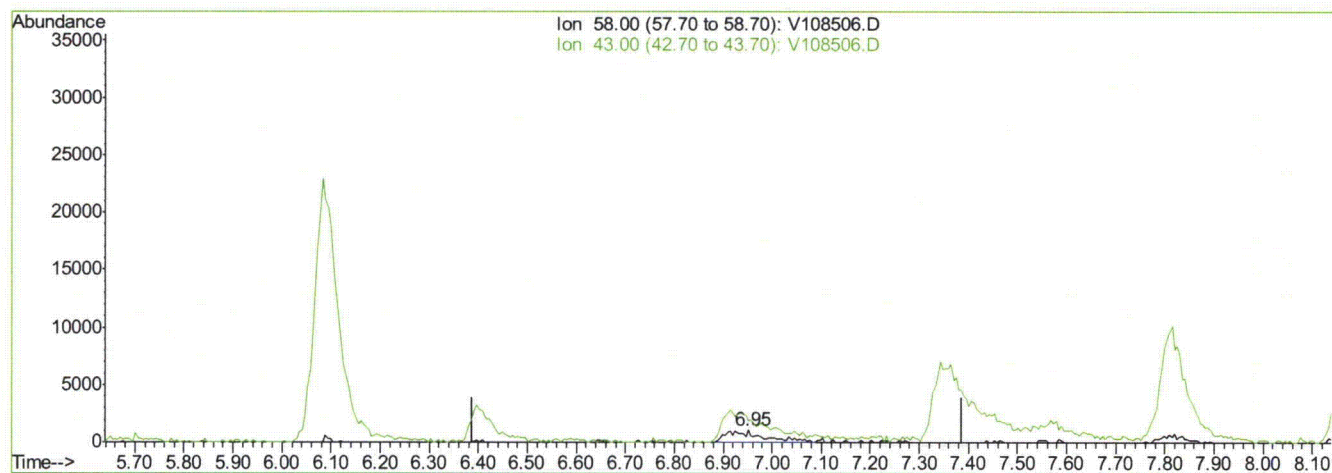
Results File: MVS4452.RES

Method : C:\MSDCHEM\1\METHODS\MVS4452.M (RTE Integrator)

Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Thu Oct 21 10:06:25 2010

Response via : Multiple Level Calibration



(30) acetone

6.95min 21.35ug/L m

response 5477

Ion	Exp%	Act%
58.00	100	100
43.00	223.00	179.03
0.00	0.00	0.00
0.00	0.00	0.00

V108506.D MVS4452.M

Thu Oct 21 11:25:57 2010

RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : V108514.D
 Acq On : 21 Oct 2010 3:08 pm
 Operator : JIANHUAL
 Sample : ICV4452-50
 Misc : MS3346,VV4577,5,,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 21 17:22:30 2010
 Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
 Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Thu Oct 21 17:19:02 2010
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.45	65	102995	500.00	ug/L	0.00
4) pentafluorobenzene	9.67	168	255774	50.00	ug/L	0.00
62) 1,4-difluorobenzene	10.62	114	399604	50.00	ug/L	0.00
93) chlorobenzene-d5	14.03	117	403886	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.66	152	209875	50.00	ug/L	0.01

System Monitoring Compounds

57) dibromofluoromethane (s)	9.73	113	145650	49.61	ug/L	0.00
Spiked Amount	50.000	Range	67 - 127	Recovery	=	99.22%
58) 1,2-dichloroethane-d4 (s)	10.16	65	147319	49.73	ug/L	0.00
Spiked Amount	50.000	Range	65 - 132	Recovery	=	99.46%
85) toluene-d8 (s)	12.35	98	531475	51.70	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	103.40%
109) 4-bromofluorobenzene (s)	15.35	95	212215	46.39	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	92.78%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
20) Vinyl Bromide	5.91	106	148277	53.96	ug/L	100

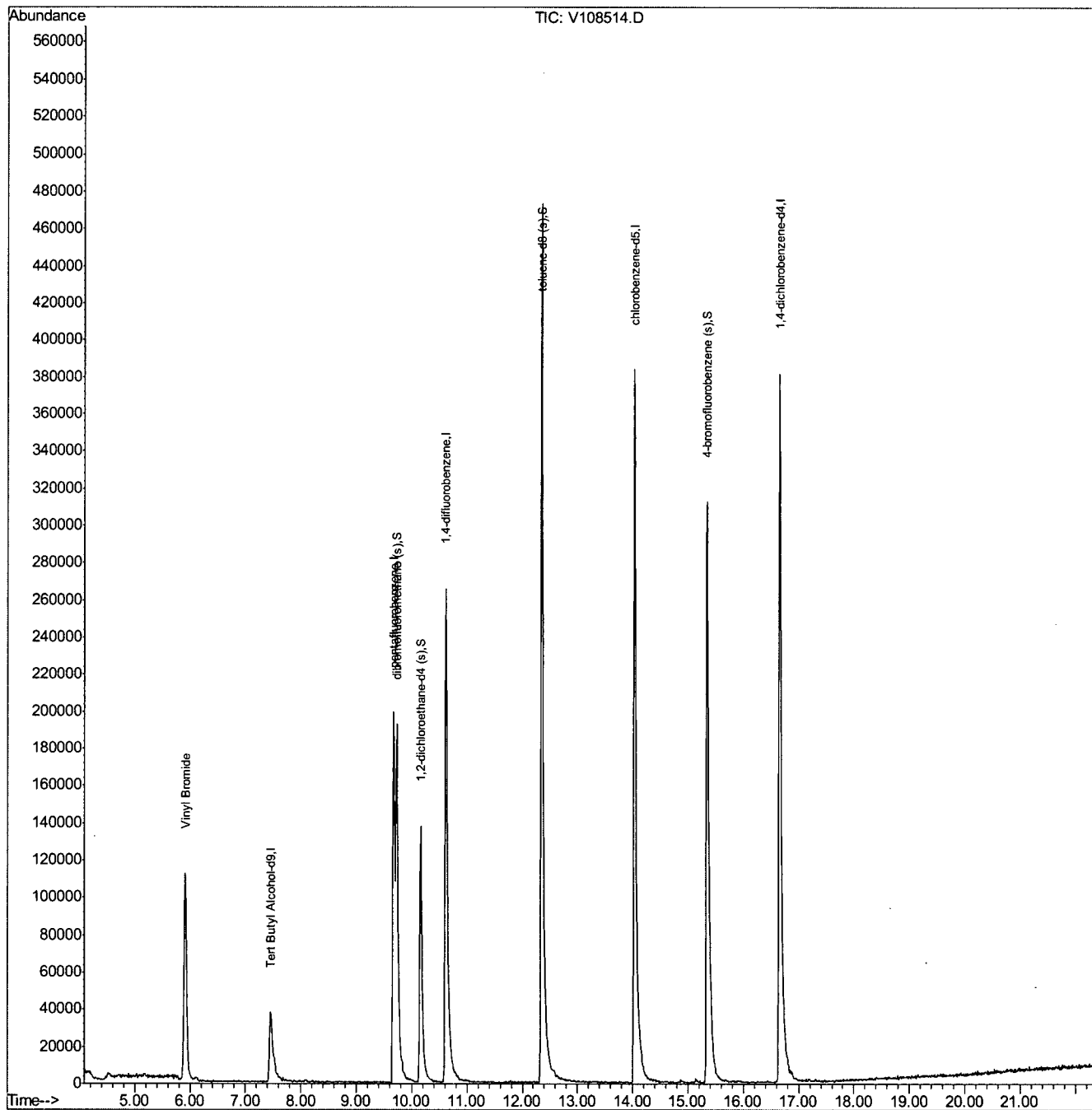
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.6.24
6

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : V108514.D
Acq On : 21 Oct 2010 3:08 pm
Operator : JIANHUAL
Sample : ICV4452-50
Misc : MS3346,VV4577,5,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 21 17:22:30 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Oct 21 17:19:02 2010
Response via : Initial Calibration



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

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

	R.T.	QIon	Response	Conc	Units	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

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
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

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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 13:43 2010

Vial: 2

Operator: JUNTAEF

Inst : MSX

Multiplr: 1.00

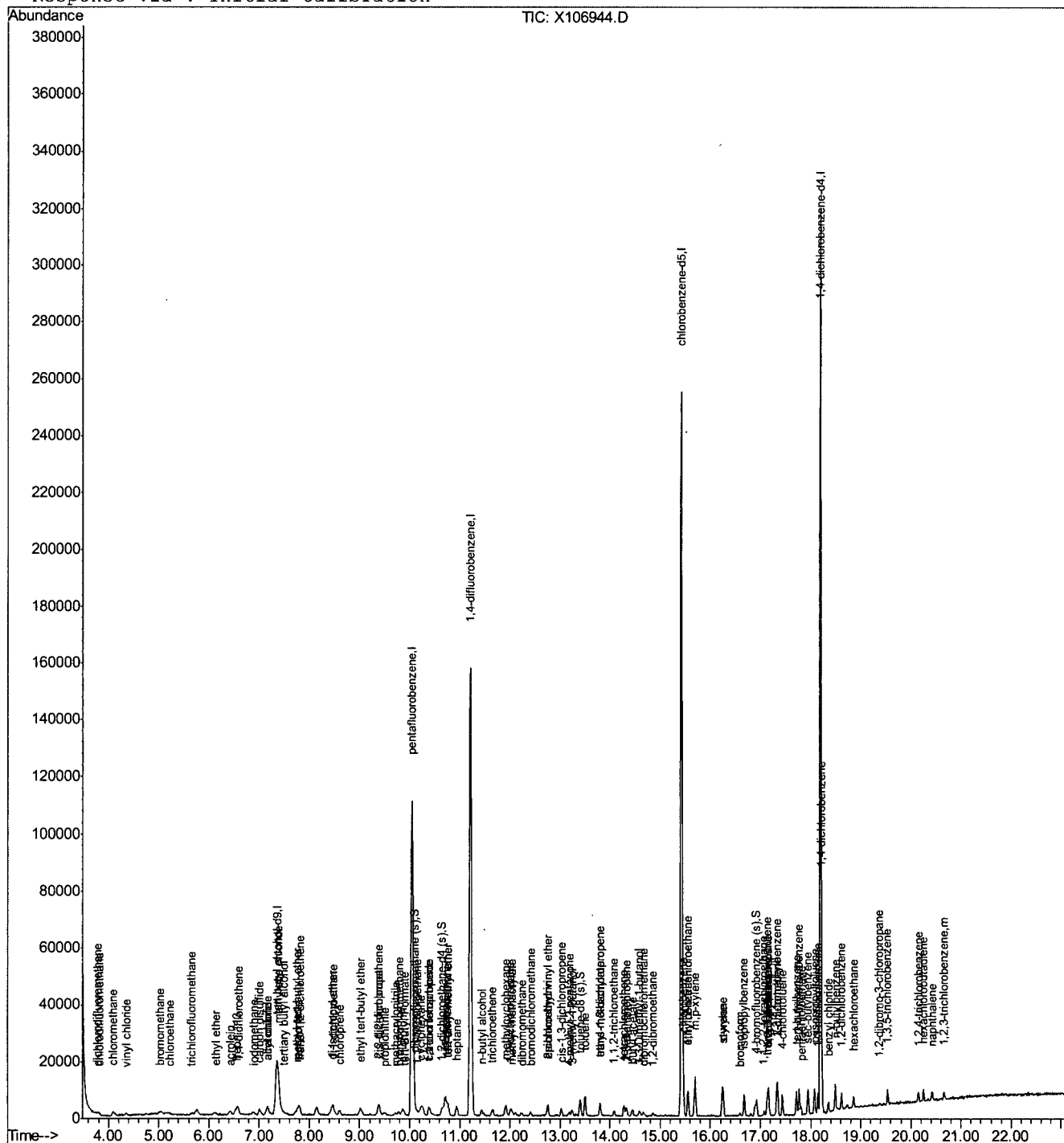
Quant Results File: MX4516.RES

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



X106944.D MX4516.M

Tue Sep 14 15:03:01 2010

MSX

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6.6.25

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

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) acetonitrile	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

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
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

Page 2

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

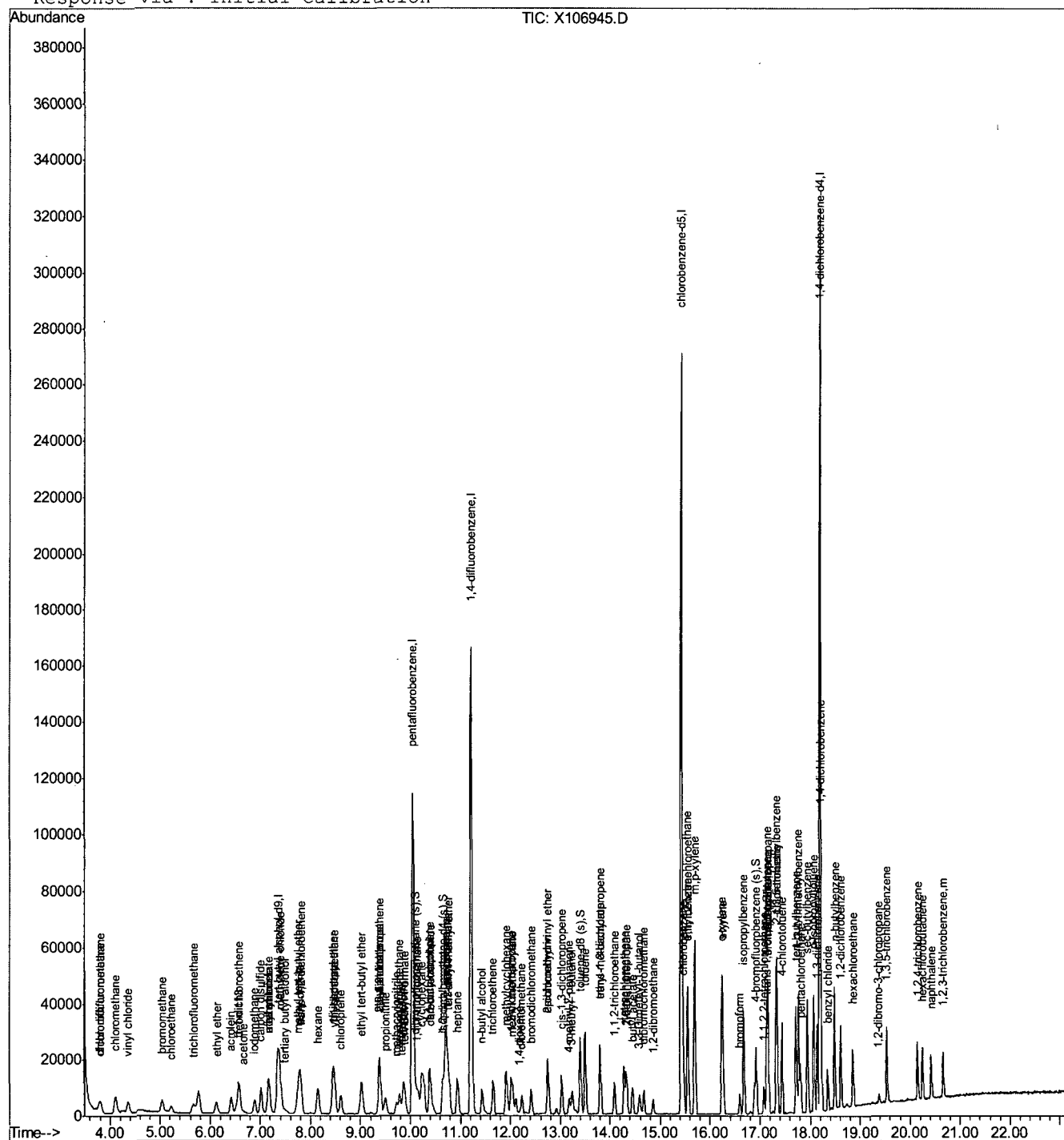
Quant Results File: MX4516.RES

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



X106945.D MX4516.M

Tue Sep 14 15:03:16 2010

MSX

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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

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 Tue Sep 14 15:03:29 2010 MSX

Page 1

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
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

Tue Sep 14 15:03:30 2010

MSX

Page 2

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

(QT Reviewed)

Vial: 4

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

Response via : Initial Calibration



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

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

Quantitation Report (QT Reviewed)

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

Vial: 5

Acq On : 14 Sep 2010 11:16 am

Operator: JUNTAEF

Sample : IC4516-0.5

Inst : MSX

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Misc      : MS1864,vx4516,5.0,,,,,1
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Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 13:36 2010

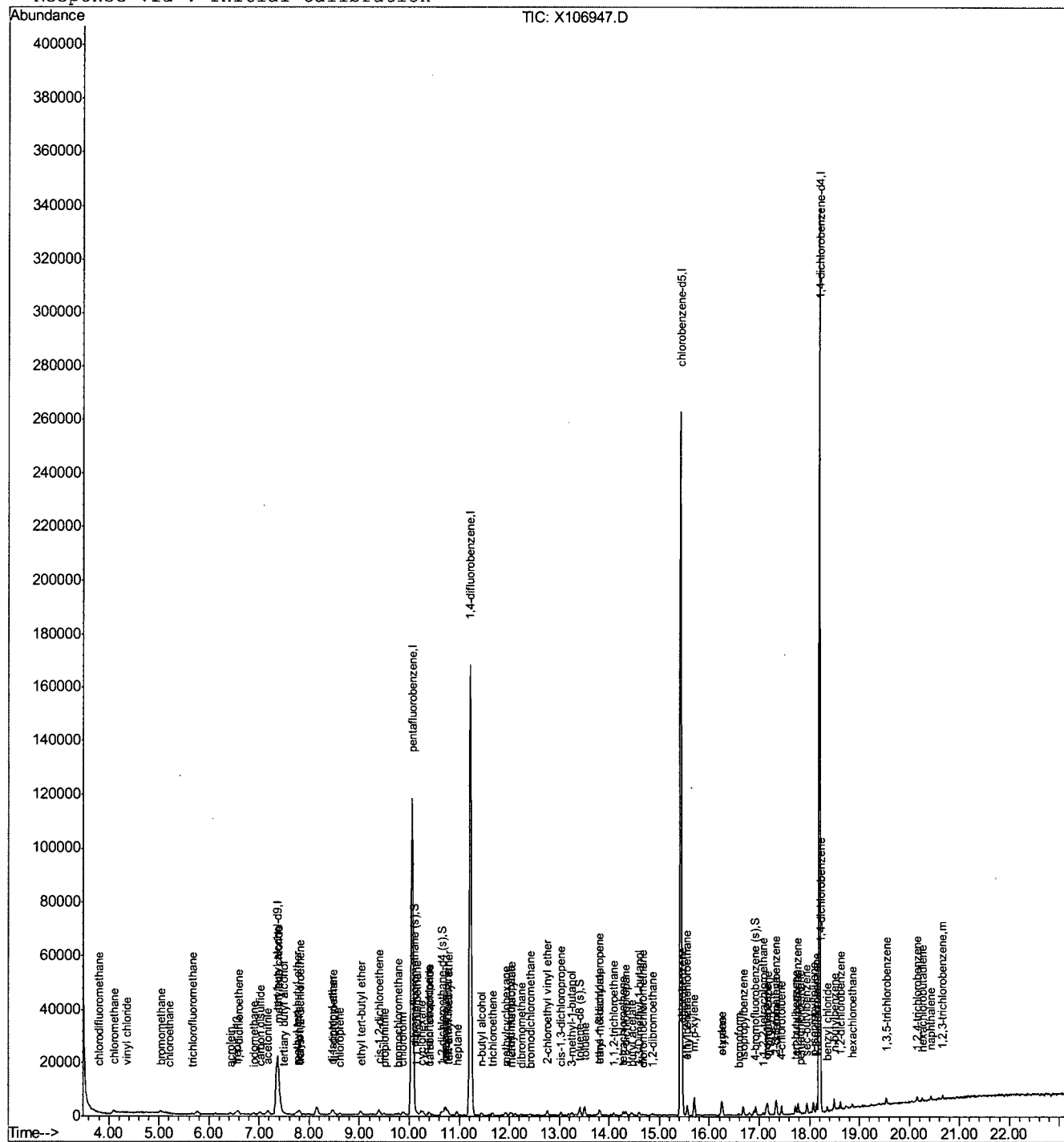
Quant Results File: MX4516.RES

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 14:59:55 2010

Response via : Initial Calibration



X106947.D MX4516.M

Tue Sep 14 15:03:42 2010

MSX

Page 4

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

6.6.29

6

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

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
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

Page 2

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

6.6.29

6

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

Page 3

Vial: 6

Operator: JUNTAEF

Inst : MSX

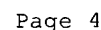
Multiplr: 1.00

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



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

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 15:04 2010

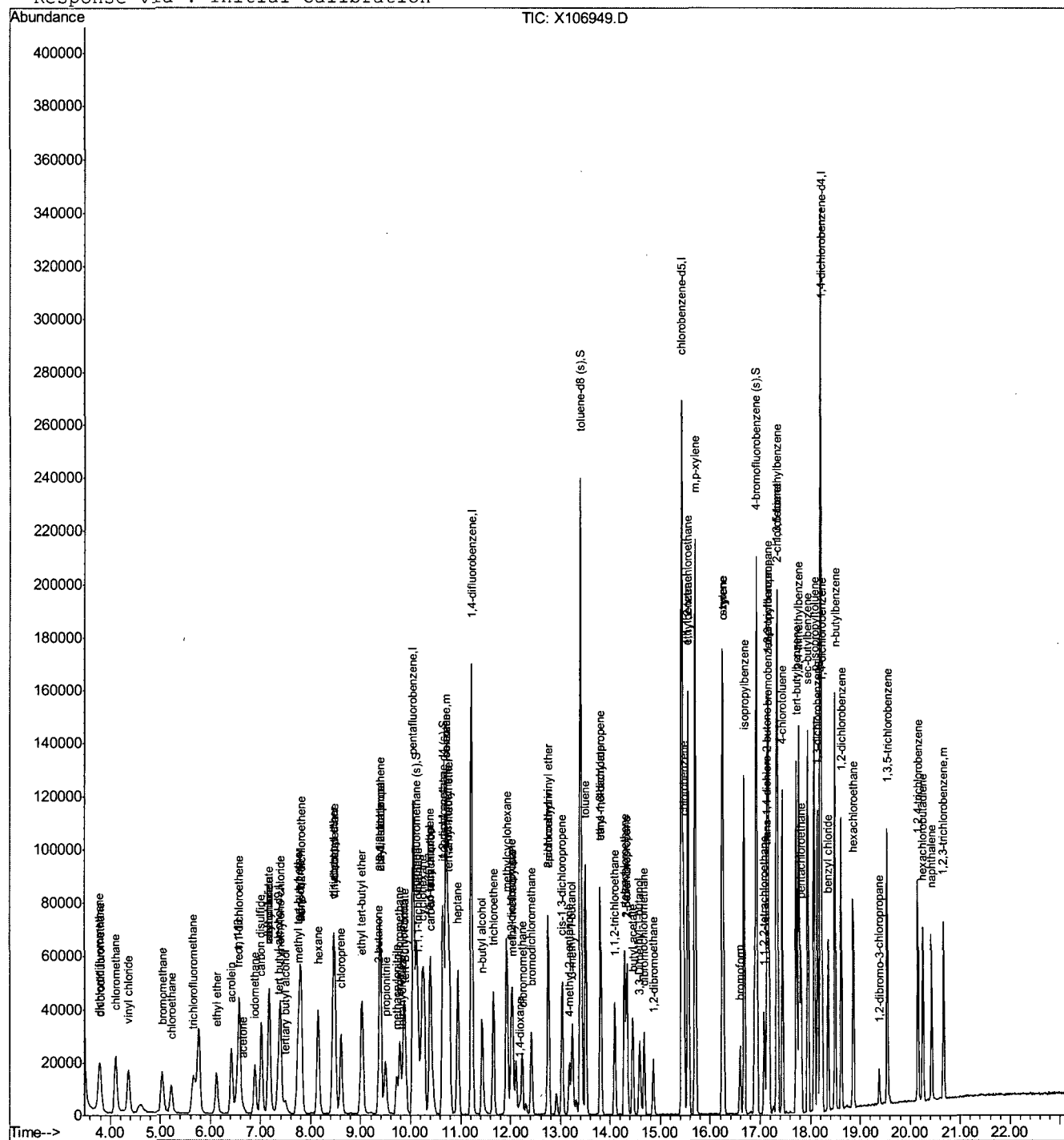
Quant Results File: MX4516.RES

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 14:59:55 2010

Response via : Initial Calibration



X106949.D MX4516.M

Tue Sep 14 15:04:52 2010

MSX

Page 4

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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Quant Results File: MX4516.RES

Abundance

TIC: X106950.D

Time-->

4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00

650000

600000

550000

500000

450000

400000

350000

300000

250000

200000

150000

100000

50000

0

1,1-dichloroethane
chloroethane
vinyl chloride
bromomethane
chloroethane
trichlorofluoromethane
ethyl ether
acrolein
freon 113
iodomethane
carbon disulfide
methyl alcohol
tertiary butyl alcohol
methyl tert-butyl ether
hexane
chloroprene
diethyl ether
ethyl tert-butyl ether
2-butanone
propionitrile
methyl acetate
methyl propyl ketone
dimethyl isobutyl ketone
carbon tetrachloride
1,1,1-trichloroethane
heptane
1,4-difluorobenzene
n-butyl alcohol
trichloroethene
methyl methyl cyclohexane
dibromomethane
bromodichloromethane
4-methyl-2-pentanone
cis-1,3-dichloropropene
toluene
styrene
1,1,2-trichloroethane
1,1,2,2-tetrachloroethane
3,3-dibromodichloromethane
1,2-dibromoethane
chlorobenzene
styrene
isopropylbenzene
2-chlorobenzene
4-chlorobenzene
tert-butylbenzene
sec-butylbenzene
n-butylbenzene
1,2-dichlorobenzene
1,3,5-trichlorobenzene
hexachlorobutadiene
1,2,4-trichlorobenzene
1,2,3-trichlorobenzene, m

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X106952.D
 Acq On : 14 Sep 2010 1:43 pm
 Sample : IC4516-100
 Misc : MS1864,vx4516,5.0,,,,,1
 MS Integration Params: Rteint.p
 Quant Time: Sep 14 14:06:48 2010

Vial: 10
 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

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
 Acq On : 14 Sep 2010 1:43 pm
 Sample : IC4516-100
 Misc : MS1864,vx4516,5.0,,,,,1
 MS Integration Params: Rteint.p
 Quant Time: Sep 14 14:06:48 2010

Vial: 10
 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	9.89	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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Quantitation Report (QT Reviewed)

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

Vial: 10

Acq On : 14 Sep 2010 1:43 pm

Operator: JUNTAEF

Sample : IC4516-100

Inst : MSX

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

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Sep 14 14:47 2010

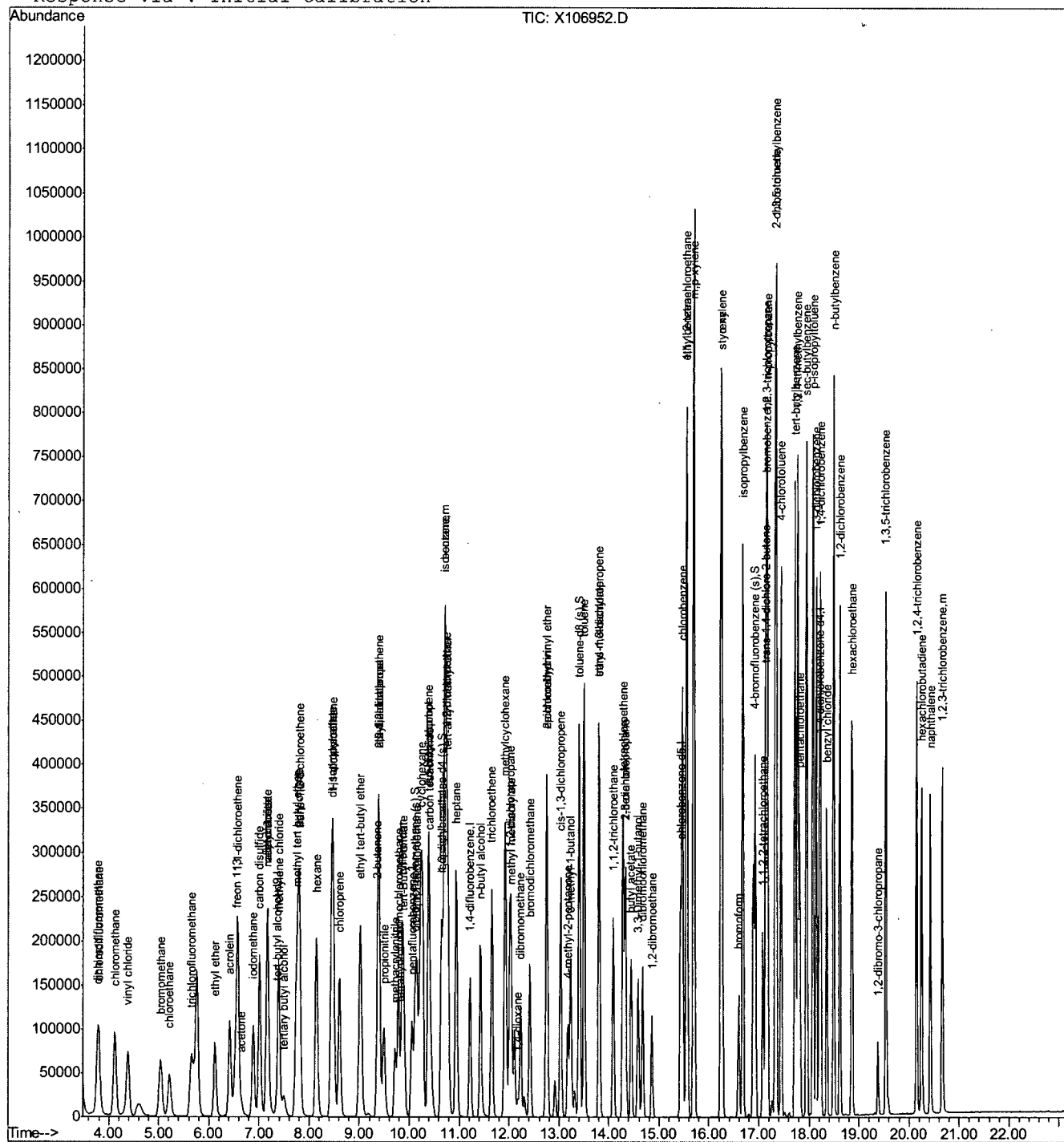
Quant Results File: MX4516.RES

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

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

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

Response via : Initial Calibration



X106952.D MX4516.M

Tue Sep 14 15:05:16 2010

MSX

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6.6.32

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

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) acetonitrile	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

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
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

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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

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 14:49 2010

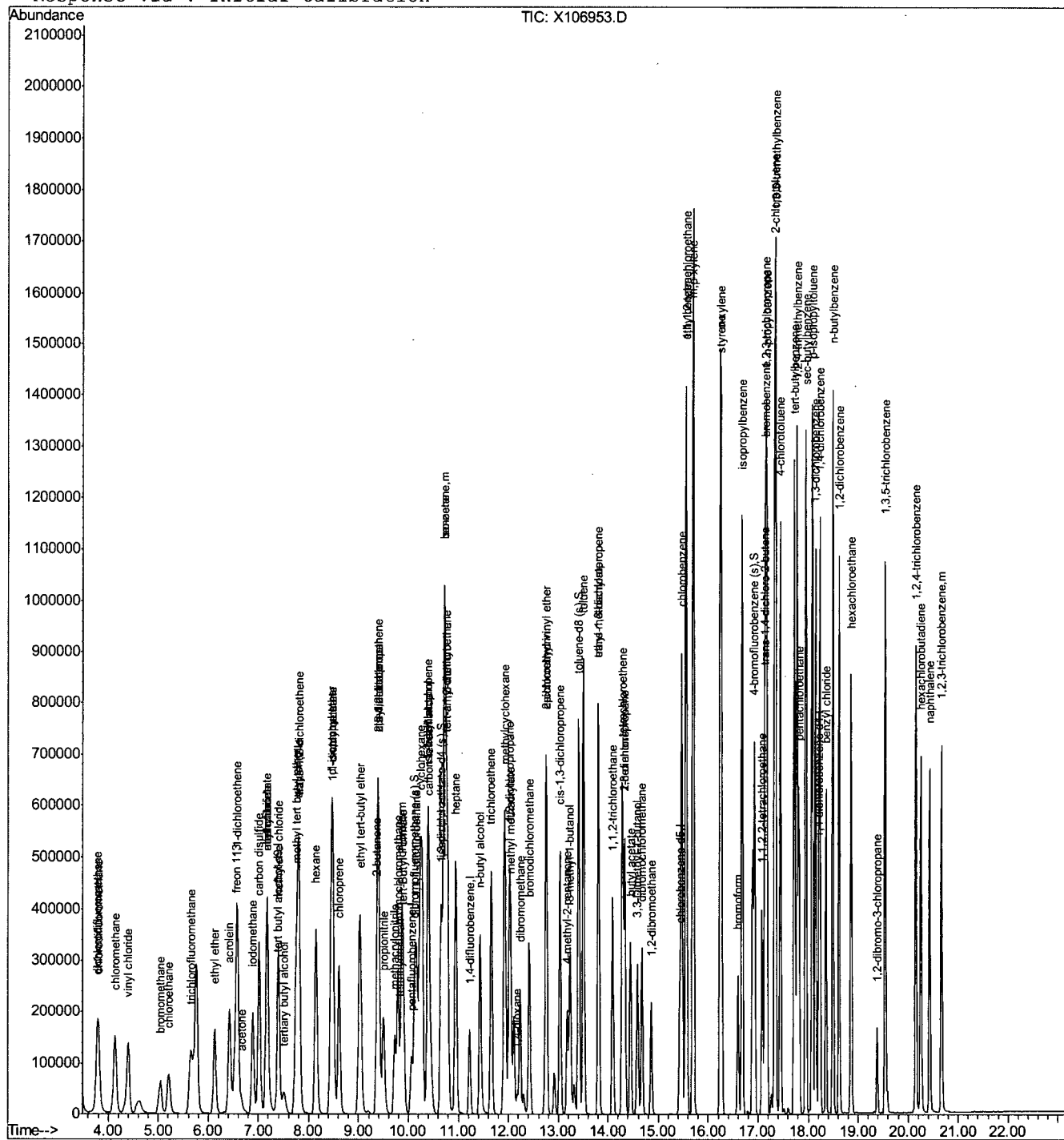
Quant Results File: MX4516.RES

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

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

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

Response via : Initial Calibration



X106953.D MX4516.M

Tue Sep 14 15:05:33 2010

MSX

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X4516\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

6.6.34
6

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

Page 1

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

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\WX4516\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\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

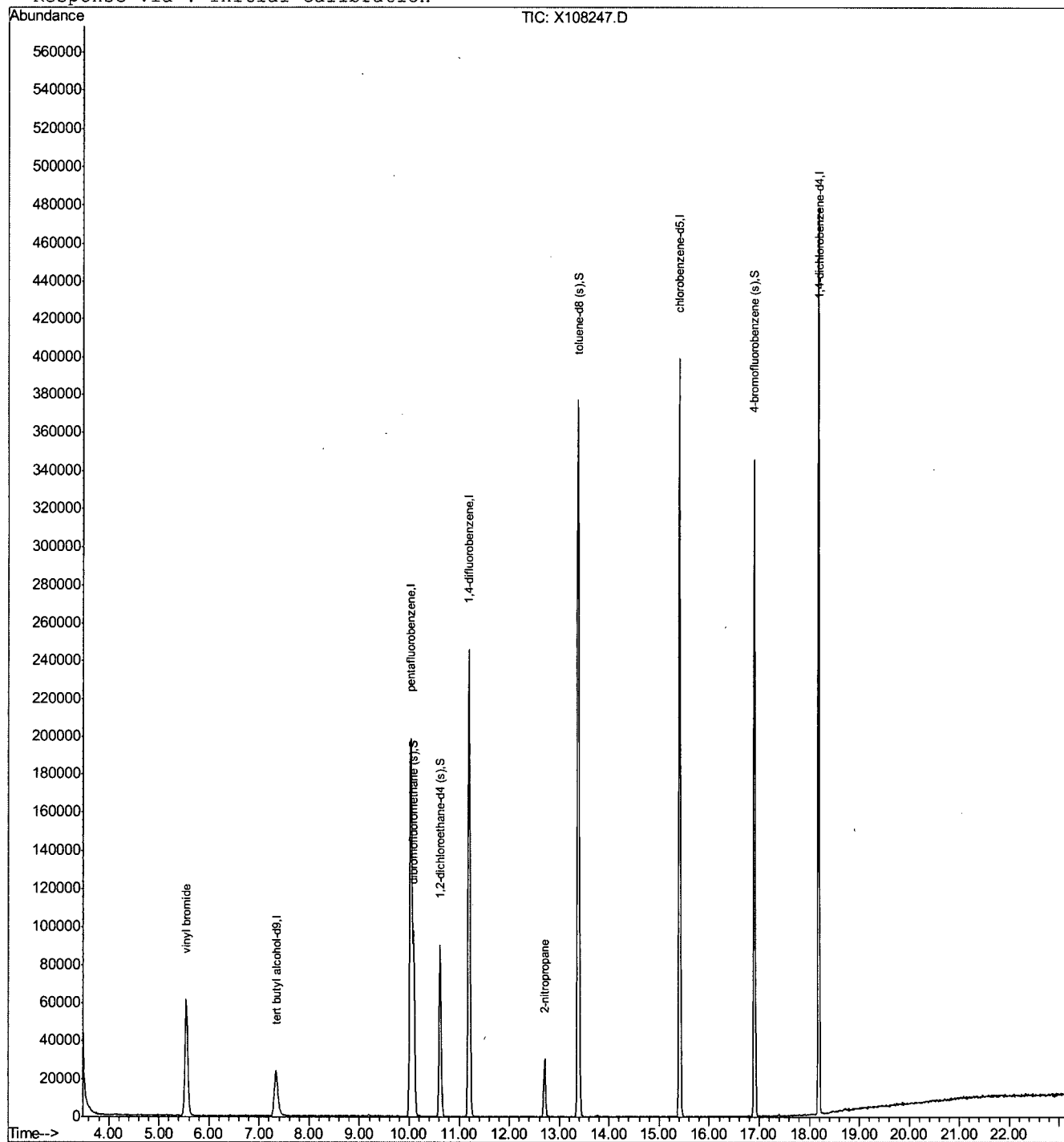
6.635
6

(#) = 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\VX4579-4580\X108347.D Vial: 3
 Acq On : 26 Oct 2010 12:51 pm Operator: JUNTAEP
 Sample : cc4516-20 Inst : MSX
 Misc : MS3790,vx4579,5.0,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 13:15:05 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	52666	500.00	ug/L	-0.02
6) pentafluorobenzene	10.05	168	144787	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	198395	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	198755	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	99728	50.00	ug/L	0.00

System Monitoring Compounds						
53) dibromofluoromethane (s)	10.11	113	59951	48.45	ug/L	-0.01
Spiked Amount	50.000	Range	67 - 127	Recovery	=	96.90%
54) 1,2-dichloroethane-d4 (s)	10.63	65	69166	50.73	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	101.46%
84) toluene-d8 (s)	13.40	98	240555	55.62	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	111.24%
109) 4-bromofluorobenzene (s)	16.92	95	106020	54.15	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	108.30%

Target Compounds				Qvalue		
2) tertiary butyl alcohol	7.49	59	13690	108.55	ug/L	88
4) acrolein	6.41	56	40911	198.43	ug/L #	97
5) 1,4-dioxane	12.16	88	5812	591.87	ug/L #	99
12) chlorodifluoromethane	3.81	51	22092	16.34	ug/L	88
13) dichlorodifluoromethane	3.79	85	51804	25.95	ug/L	97
16) chloromethane	4.11	50	50030	18.13	ug/L	97
17) vinyl chloride	4.37	62	40629	19.03	ug/L	96
19) bromomethane	5.04	94	24682	18.83	ug/L	98
20) chloroethane	5.22	64	23592	20.78	ug/L	96
21) vinyl bromide	5.57	106	26642	20.15	ug/L #	94
22) trichlorofluoromethane	5.67	101	57175	25.80	ug/L	98
23) ethyl ether	6.11	74	14361	21.22	ug/L	85
27) 1,1-dichloroethene	6.57	96	26636	20.85	ug/L	95
28) acetone	6.65	58	1711	15.45	ug/L	97
29) allyl chloride	7.17	76	17014	21.36	ug/L #	87
30) acetonitrile	7.16	40	20347	184.09	ug/L #	80
31) iodomethane	6.88	142	54414	23.15	ug/L	90
32) iso-butyl alcohol	10.38	74	2277	167.41	ug/L	100
33) carbon disulfide	7.01	76	103582	20.53	ug/L	96
34) methylene chloride	7.39	84	30037	20.16	ug/L	91
35) methyl acetate	7.15	74	3165	18.35	ug/L #	83
36) methyl tert butyl ether	7.74	73	153532	41.05	ug/L	97
37) trans-1,2-dichloroethene	7.81	96	28167	19.82	ug/L	95
38) di-isopropyl ether	8.45	45	93346	19.03	ug/L	82
39) 2-butanone	9.36	72	2548	19.53	ug/L	97
40) 1,1-dichloroethane	8.48	63	55751	21.74	ug/L	100
41) chloroprene	8.60	53	42398	23.53	ug/L	96
42) acrylonitrile	7.77	53	36691	96.46	ug/L	95
43) vinyl acetate	8.47	86	3661	27.72	ug/L	57
44) ethyl tert-butyl ether	9.02	59	92744	21.39	ug/L	99
45) ethyl acetate	9.38	70	2656	21.77	ug/L	88
46) 2,2-dichloropropane	9.37	77	47228	21.61	ug/L	89
47) cis-1,2-dichloroethene	9.38	96	31232	20.55	ug/L	97

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

X108347.D MX4516.M Wed Oct 27 11:52:35 2010 MSX

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108347.D Vial: 3
 Acq On : 26 Oct 2010 12:51 pm Operator: JUNTAEP
 Sample : cc4516-20 Inst : MSX
 Misc : MS3790,vx4579,5.0,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 13:15:05 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

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) propionitrile	9.49	54	28767	189.96	ug/L	93
49) tert-Butyl Formate	9.88	59	24484	22.73	ug/L #	84
50) bromochloromethane	9.78	128	14671	22.99	ug/L	95
51) tetrahydrofuran	9.81	42	8088	19.01	ug/L	97
52) chloroform	9.86	83	53901	22.97	ug/L	97
55) freon 113	6.56	151	20816	20.81	ug/L	91
56) methacrylonitrile	9.71	41	14116	17.92	ug/L	91
57) 1,1,1-trichloroethane	10.16	97	47683	24.11	ug/L	96
58) cyclohexane	10.23	84	41272	21.29	ug/L	96
60) iso-octane	10.70	57	108926	20.74	ug/L	94
63) epichlorohydrin	12.75	57	9441	105.98	ug/L	81
64) n-butyl alcohol	11.42	56	32978	1061.08	ug/L	94
65) carbon tetrachloride	10.40	117	43755	28.24	ug/L	98
66) 1,1-dichloropropene	10.38	75	40937	24.41	ug/L	96
67) hexane	8.15	86	4199	19.33	ug/L #	84
68) benzene	10.71	78	108158	22.26	ug/L	98
69) tert-amyl methyl ether	10.77	73	74407	22.39	ug/L	97
70) heptane	10.94	57	20018	20.87	ug/L	97
71) isopropyl acetate	10.65	43	64307	23.11	ug/L	98
72) 1,2-dichloroethane	10.75	62	37448	27.89	ug/L	96
73) trichloroethene	11.65	130	31076	25.06	ug/L	98
76) 2-nitropropane	12.73	46	766	49.54	ug/L #	1
77) 2-chloroethyl vinyl ether	12.75	63	48875	110.57	ug/L	98
78) methyl methacrylate	12.04	69	14771	22.23	ug/L	96
79) 1,2-dichloropropane	12.01	63	29708	22.70	ug/L	99
80) dibromomethane	12.22	93	17221	26.45	ug/L	97
81) methylcyclohexane	11.92	83	45701	22.46	ug/L	92
82) bromodichloromethane	12.41	83	41826	25.77	ug/L	98
83) cis-1,3-dichloropropene	13.03	75	51278	23.79	ug/L	92
85) 4-methyl-2-pentanone	13.17	58	9477	23.32	ug/L #	39
86) toluene	13.50	92	71868	22.44	ug/L	98
87) 3-methyl-1-butanol	13.23	55	22600	439.65	ug/L	94
88) trans-1,3-dichloropropene	13.79	75	46136	24.70	ug/L	96
89) ethyl methacrylate	13.80	69	30887	21.97	ug/L	96
90) 1,1,2-trichloroethane	14.08	83	20482	23.82	ug/L	95
91) 2-hexanone	14.33	58	8619	22.67	ug/L	92
93) 3,3-Dimethyl-1-butanol	14.58	57	22313	194.44	ug/L	100
94) tetrachloroethene	14.28	164	27959	24.01	ug/L	95
95) 1,3-dichloropropane	14.32	76	39241	21.61	ug/L	96
96) butyl acetate	14.44	56	16273	20.04	ug/L	97
97) dibromochloromethane	14.66	129	31191	23.71	ug/L	97
98) 1,2-dibromoethane	14.85	107	25427	23.25	ug/L	99
100) chlorobenzene	15.47	112	79591	22.64	ug/L	98
101) 1,1,1,2-tetrachloroethane	15.56	131	30718	24.81	ug/L	99
102) ethylbenzene	15.55	91	139071	22.39	ug/L	99
103) m,p-xylene	15.69	106	106439	44.25	ug/L	93
104) o-xylene	16.24	106	56358	22.43	ug/L	93
105) styrene	16.26	104	91618	22.75	ug/L	97
106) bromoform	16.59	173	21932	25.48	ug/L	99

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

X108347.D MX4516.M Wed Oct 27 11:52:35 2010 MSX

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108347.D Vial: 3
 Acq On : 26 Oct 2010 12:51 pm Operator: JUNTAEP
 Sample : cc4516-20 Inst : MSX
 Misc : MS3790,vx4579,5.0,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 26 13:15:05 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

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
108) isopropylbenzene	16.68	105	149786	21.81	ug/L	98
110) bromobenzene	17.14	156	37531	22.76	ug/L	98
111) 1,1,2,2-tetrachloroethane	17.07	83	32436	21.28	ug/L	98
112) trans-1,4-dichloro-2-buten	17.12	53	10480	24.45	ug/L	86
113) 1,2,3-trichloropropane	17.15	110	7593	23.15	ug/L #	51
114) n-propylbenzene	17.16	91	170960	21.39	ug/L	97
116) 2-chlorotoluene	17.32	126	36801	22.76	ug/L	94
117) 4-chlorotoluene	17.44	91	112669	22.18	ug/L	99
118) 1,3,5-trimethylbenzene	17.34	105	123901	22.40	ug/L	98
119) tert-butylbenzene	17.72	119	111850	22.87	ug/L	96
120) pentachloroethane	17.81	167	23364	25.61	ug/L	91
121) 1,2,4-trimethylbenzene	17.77	105	129760	22.54	ug/L	98
123) sec-butylbenzene	17.95	105	167954	22.93	ug/L	99
124) 1,3-dichlorobenzene	18.14	146	73057	23.16	ug/L	99
125) p-isopropyltoluene	18.08	119	140668	23.42	ug/L	96
126) 1,4-dichlorobenzene	18.23	146	69951	23.37	ug/L	98
127) 1,2-dichlorobenzene	18.62	146	68722	23.87	ug/L	97
128) benzyl chloride	18.35	91	60815	20.33	ug/L	98
130) n-butylbenzene	18.49	92	77178	23.99	ug/L	98
132) 1,2-dibromo-3-chloropropan	19.37	75	6740	24.54	ug/L	93
133) 1,3,5-trichlorobenzene	19.54	180	59989	25.43	ug/L	98
134) hexachlorobutadiene	20.25	225	31972	27.99	ug/L	96
135) naphthalene	20.42	128	81810	24.50	ug/L	98
136) 1,2,4-trichlorobenzene	20.15	180	47935	25.95	ug/L	96
137) 1,2,3-trichlorobenzene	20.66	180	41176	27.19	ug/L	98
138) hexachloroethane	18.86	201	26762	25.73	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108347.D MX4516.M Wed Oct 27 11:52:36 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4579-4580\X108347.D

Vial: 3

Acq On : 26 Oct 2010 12:51 pm

Operator: JUNTAEP

Sample : cc4516-20

Inst : MSX

Misc : MS3790,vx4579,5.0,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Oct 27 11:42 2010

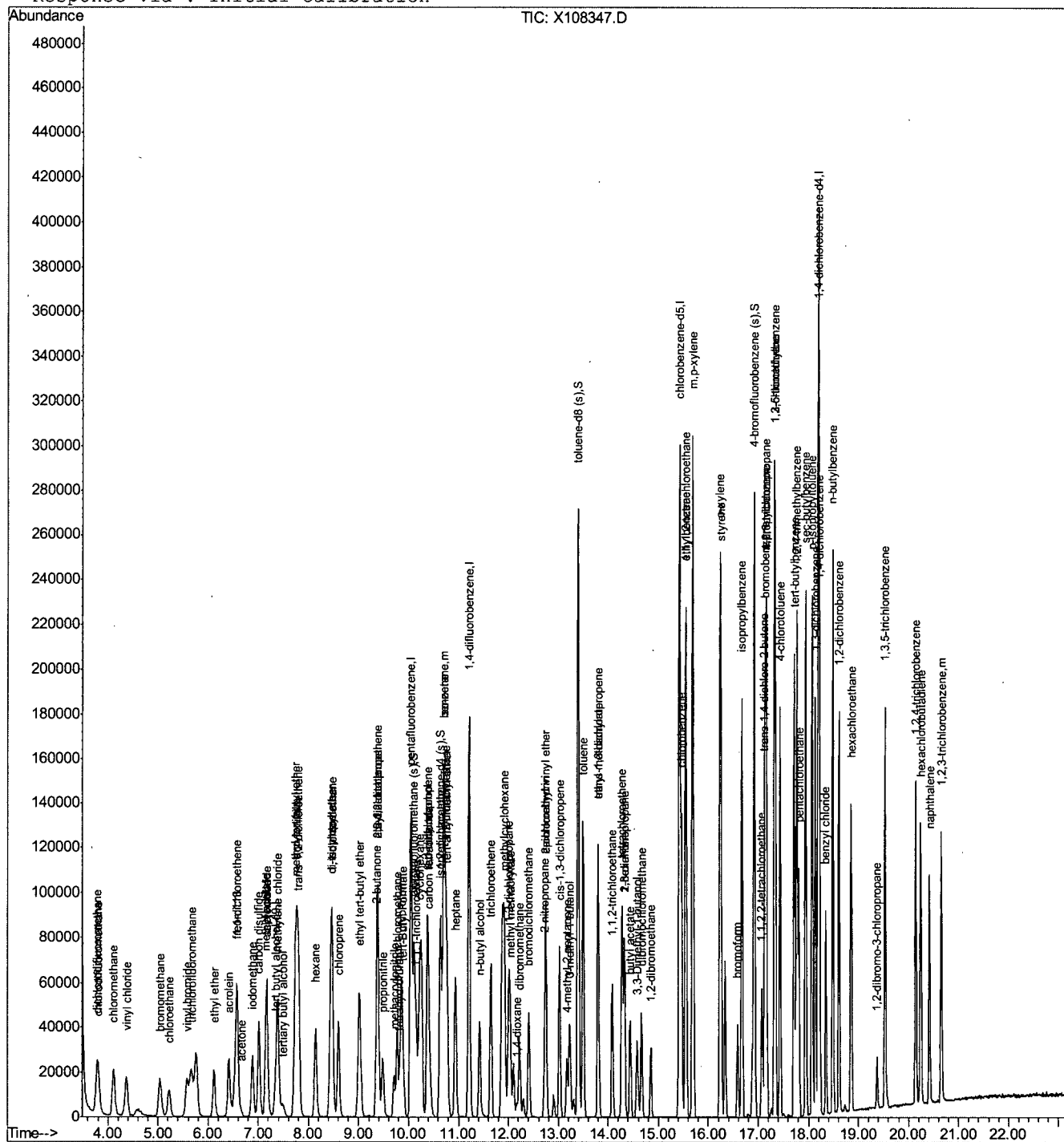
Quant Results File: MX4516.RES

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



X108347.D MX4516.M

Wed Oct 27 11:52:37 2010

MSX

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\WX4581-4582\X108392.D Vial: 3
 Acq On : 27 Oct 2010 3:02 pm Operator: JUNTAEP
 Sample : CC4516-20 Inst : MSX
 Misc : MS3790,vx4581,5.0,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 27 15:25:29 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	62391	500.00	ug/L	-0.01
6) pentafluorobenzene	10.05	168	138289	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.22	114	198218	50.00	ug/L	0.00
92) chlorobenzene-d5	15.43	117	198728	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.20	152	100190	50.00	ug/L	0.00

System Monitoring Compounds

53) dibromofluoromethane (s)	10.10	113	60702	51.36	ug/L	-0.02
Spiked Amount	50.000	Range	67 - 127	Recovery	=	102.72%
54) 1,2-dichloroethane-d4 (s)	10.63	65	71027	54.54	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 132	Recovery	=	109.08%
84) toluene-d8 (s)	13.40	98	238232	55.13	ug/L	0.00
Spiked Amount	50.000	Range	74 - 129	Recovery	=	110.26%
109) 4-bromofluorobenzene (s)	16.92	95	104261	53.00	ug/L	0.00
Spiked Amount	50.000	Range	62 - 138	Recovery	=	106.00%

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.48	59	16166	108.20	ug/L	81
4) acrolein	6.41	56	43248	177.07	ug/L #	99
5) 1,4-dioxane	12.17	88	6271	549.31	ug/L #	97
12) chlorodifluoromethane	3.81	51	33625	26.04	ug/L	93
13) dichlorodifluoromethane	3.79	85	49293	25.85	ug/L	96
16) chloromethane	4.11	50	49350	18.72	ug/L	96
17) vinyl chloride	4.37	62	38715	18.99	ug/L	97
19) bromomethane	5.03	94	22238	17.76	ug/L	94
20) chloroethane	5.23	64	19844	18.30	ug/L	96
21) vinyl bromide	5.57	106	24236	19.19	ug/L #	93
22) trichlorofluoromethane	5.66	101	55305	26.13	ug/L	97
23) ethyl ether	6.12	74	15272	23.62	ug/L	86
27) 1,1-dichloroethene	6.58	96	25254	20.69	ug/L	97
28) acetone	6.65	58	2905	29.26	ug/L #	84
29) allyl chloride	7.16	76	16583	21.79	ug/L	92
30) acetonitrile	7.16	40	22413	212.31	ug/L #	69
31) iodomethane	6.88	142	50574	22.53	ug/L	92
32) iso-butyl alcohol	10.37	74	2970	216.19	ug/L	100
33) carbon disulfide	7.01	76	99213	20.59	ug/L	98
34) methylene chloride	7.39	84	29049	20.42	ug/L	98
35) methyl acetate	7.15	74	3761	22.83	ug/L #	88
36) methyl tert butyl ether	7.75	73	83797	23.46	ug/L	99
37) trans-1,2-dichloroethene	7.81	96	27380	20.17	ug/L	96
38) di-isopropyl ether	8.45	45	101307	21.62	ug/L	86
39) 2-butanone	9.35	72	3287	26.80	ug/L	73
40) 1,1-dichloroethane	8.48	63	53815	21.97	ug/L	98
41) chloroprene	8.60	53	40093	23.30	ug/L	97
42) acrylonitrile	7.77	53	41872	115.25	ug/L	95
43) vinyl acetate	8.46	86	3830	30.36	ug/L	100
44) ethyl tert-butyl ether	9.02	59	97818	23.61	ug/L	99
45) ethyl acetate	9.37	70	3212	27.57	ug/L	30
46) 2,2-dichloropropane	9.38	77	46389	22.22	ug/L	95
47) cis-1,2-dichloroethene	9.38	96	29926	20.62	ug/L	96

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

X108392.D MX4516.M Mon Nov 01 14:49:55 2010 MSX

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4581-4582\X108392.D Vial: 3
 Acq On : 27 Oct 2010 3:02 pm Operator: JUNTAEP
 Sample : CC4516-20 Inst : MSX
 Misc : MS3790,vx4581,5.0,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 27 15:25:29 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	9.49	54	33680	232.85	ug/L	93
49) tert-Butyl Formate	9.89	59	22566	21.94	ug/L #	85
50) bromochloromethane	9.77	128	13985	22.94	ug/L	95
51) tetrahydrofuran	9.82	42	9609	23.64	ug/L	100
52) chloroform	9.85	83	51316	22.90	ug/L	98
55) freon 113	6.55	151	22869	23.94	ug/L	96
56) methacrylonitrile	9.71	41	16132	21.44	ug/L	96
57) 1,1,1-trichloroethane	10.15	97	43501	23.03	ug/L	97
58) cyclohexane	10.22	84	39567	21.37	ug/L	98
60) iso-octane	10.70	57	120775	24.07	ug/L	96
63) epichlorohydrin	12.74	57	11195	125.78	ug/L	86
64) n-butyl alcohol	11.42	56	39921	1285.62	ug/L	94
65) carbon tetrachloride	10.39	117	39818	25.72	ug/L	95
66) 1,1-dichloropropene	10.37	75	38012	22.68	ug/L	97
67) hexane	8.13	86	5847	26.94	ug/L #	84
68) benzene	10.71	78	105595	21.75	ug/L	95
69) tert-amyl methyl ether	10.76	73	77999	23.50	ug/L	96
70) heptane	10.93	57	24814	25.89	ug/L	97
71) isopropyl acetate	10.65	43	72325	26.01	ug/L	97
72) 1,2-dichloroethane	10.76	62	36104	26.91	ug/L	98
73) trichloroethene	11.65	130	28922	23.35	ug/L	99
76) 2-nitropropane	12.73	46	818	52.56	ug/L #	1
77) 2-chloroethyl vinyl ether	12.75	63	56145	127.13	ug/L	99
78) methyl methacrylate	12.04	69	16647	25.08	ug/L	98
79) 1,2-dichloropropane	12.01	63	31365	23.98	ug/L	96
80) dibromomethane	12.22	93	17365	26.70	ug/L	100
81) methylcyclohexane	11.92	83	51850	25.50	ug/L	97
82) bromodichloromethane	12.41	83	40410	24.92	ug/L	95
83) cis-1,3-dichloropropene	13.03	75	51605	23.96	ug/L	98
85) 4-methyl-2-pentanone	13.18	58	10742	26.46	ug/L	96
86) toluene	13.50	92	67633	21.13	ug/L	99
87) 3-methyl-1-butanol	13.22	55	26951	524.76	ug/L	95
88) trans-1,3-dichloropropene	13.79	75	45729	24.50	ug/L	97
89) ethyl methacrylate	13.80	69	33061	23.54	ug/L	99
90) 1,1,2-trichloroethane	14.08	83	20242	23.56	ug/L	95
91) 2-hexanone	14.33	58	10658	28.06	ug/L	95
93) 3,3-Dimethyl-1-butanol	14.58	57	25742	224.35	ug/L	98
94) tetrachloroethene	14.28	164	25568	21.96	ug/L	97
95) 1,3-dichloropropane	14.32	76	40150	22.11	ug/L	98
96) butyl acetate	14.44	56	18344	22.60	ug/L	99
97) dibromochloromethane	14.67	129	30503	23.19	ug/L	97
98) 1,2-dibromoethane	14.85	107	25173	23.02	ug/L	100
100) chlorobenzene	15.47	112	75451	21.47	ug/L	96
101) 1,1,1,2-tetrachloroethane	15.56	131	29096	23.50	ug/L	96
102) ethylbenzene	15.55	91	131483	21.17	ug/L	99
103) m,p-xylene	15.69	106	101442	42.17	ug/L	98
104) o-xylene	16.24	106	53114	21.14	ug/L	93
105) styrene	16.26	104	85396	21.21	ug/L	95
106) bromoform	16.59	173	21670	25.18	ug/L	97

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

X108392.D MX4516.M Mon Nov 01 14:49:55 2010 MSX

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4581-4582\X108392.D Vial: 3
 Acq On : 27 Oct 2010 3:02 pm Operator: JUNTAEP
 Sample : CC4516-20 Inst : MSX
 Misc : MS3790,vx4581,5.0,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Oct 27 15:25:29 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

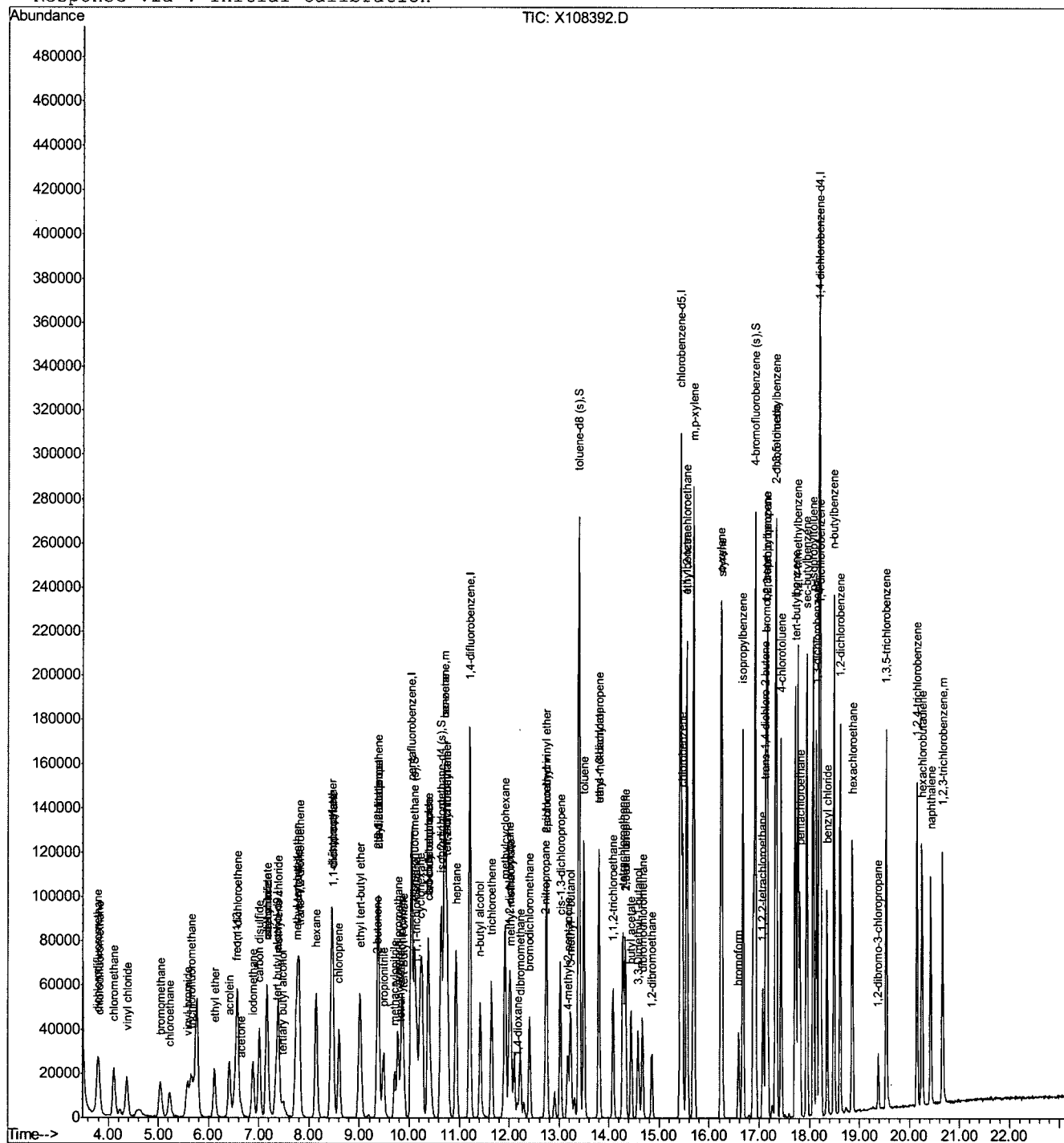
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
108) isopropylbenzene	16.68	105	139124	20.16	ug/L	98
110) bromobenzene	17.14	156	35550	21.46	ug/L	92
111) 1,1,2,2-tetrachloroethane	17.07	83	33681	22.00	ug/L	96
112) trans-1,4-dichloro-2-buten	17.12	53	10729	24.92	ug/L	92
113) 1,2,3-trichloropropane	17.15	110	7846	23.81	ug/L #	83
114) n-propylbenzene	17.16	91	159899	19.91	ug/L	98
116) 2-chlorotoluene	17.32	126	33735	20.77	ug/L	98
117) 4-chlorotoluene	17.44	91	105867	20.75	ug/L	97
118) 1,3,5-trimethylbenzene	17.34	105	115706	20.82	ug/L	98
119) tert-butylbenzene	17.72	119	102125	20.79	ug/L	95
120) pentachloroethane	17.81	167	22680	24.75	ug/L	95
121) 1,2,4-trimethylbenzene	17.77	105	124642	21.55	ug/L	99
123) sec-butylbenzene	17.95	105	156198	21.23	ug/L	99
124) 1,3-dichlorobenzene	18.14	146	68168	21.51	ug/L	98
125) p-isopropyltoluene	18.08	119	130098	21.56	ug/L	96
126) 1,4-dichlorobenzene	18.23	146	65672	21.84	ug/L	97
127) 1,2-dichlorobenzene	18.62	146	65949	22.80	ug/L	98
128) benzyl chloride	18.35	91	72562	24.15	ug/L	99
130) n-butylbenzene	18.49	92	73107	22.62	ug/L	98
132) 1,2-dibromo-3-chloropropan	19.37	75	7119	25.80	ug/L	85
133) 1,3,5-trichlorobenzene	19.54	180	57959	24.45	ug/L	99
134) hexachlorobutadiene	20.25	225	30939	26.96	ug/L	97
135) naphthalene	20.43	128	85544	25.50	ug/L	99
136) 1,2,4-trichlorobenzene	20.15	180	48317	26.04	ug/L	94
137) 1,2,3-trichlorobenzene	20.67	180	39937	26.25	ug/L	99
138) hexachloroethane	18.86	201	24298	23.25	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 X108392.D MX4516.M Mon Nov 01 14:49:56 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\VX4581-4582\X108392.D Vial: 3
Acq On : 27 Oct 2010 3:02 pm Operator: JUNTAEP
Sample : CC4516-20 Inst : MSX
Misc : MS3790,vx4581,5.0,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Nov 1 14:45 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



X108392.D MX4516.M

Mon Nov 01 14:49:58 2010

MSX

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Batch ID EH4362Date: 06-27-10Analyst Signature: [Signature]

Standard Data

Standard Data

Lot #	Description	Conc.
Std 521-100	Elutrol + Propyl Glycol	100 ppm
Std 521-50		50 ppm
Std 521-25		25 ppm
Std 521-10		10 ppm
Std 521-5		5 ppm
Std 521-1		1 ppm

Lot #	Description	Conc.
Std 521-100	Elutrol + Propyl Glycol	100 ppm
Std 521-50		50 ppm
Std 521-25		25 ppm
Std 521-10		10 ppm
Std 521-5		5 ppm
Std 521-1		1 ppm

Columns: 200 x 2.1mm x 5µmMethod Elutrol + Propyl GlycolInitial Cal. Method 14362 EPCInjection Volume: 2 µl

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: 06-27-10

Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
100432	104362-100			W	1					OK	
100433	104362-50			W	2					OK	
100434	104362-25			W	3					OK	
100435	104362-10			W	4					OK	
100436	104362-5			W	5					OK	
100437	104362-1			W	6					OK	
100438	104362-0.5			W	7					OK	
100439	104362-0.25			W	8					OK	
100440	104362-0.125			W	9					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.
910-5240	CPG	5.117
910-5241	CPG 2nd Sample	5.117

Columns: RM-242 30m x 0.25mm

Method: Effluent Purge

Initial Cal. Method: 14362676

Injection Volume: 2ul

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 #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
1100442	CC4362-5			W	1					OK	Sample = 5.117 Peak = 5.117
100443	1004362-5			W	2					OK	
100444	MP Evaluation			W	3					OK	
100445	MPB			W	4					OK	Sample duplicate
100446	IS 8.3110			W	5					OK	Sample duplicate
100447	JAS 750760-1	451478	8260 Effluent Purge		6					OK	
100448	750760-1A5				7					OK	
100449	750760-1A8				8					OK	
100450	750422-1	451183	8260 Effluent Purge		9					OK	PM 72
100451	MP Evaluation			S	10					OK	

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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Form: OR015-05



SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EH4372Date: 10-20-10Analyst Signature: [Signature]

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
50052140	Ethyl + Propyl Cyclo	5ppm

Columns: RTX-2ms 30m x 2mm x 1mmMethod: Ethyl + Propyl CycloInitial Cal. Method: 143-2490Injection Volume: 2ul

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: 10-21-10

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
4/10515	CC4372-5				1					OK	Checks = 5ppm Sample = 50ppm
100516	MB				2					OK	
100517	BS				3					OK	
100518	JA58900-1MB	15555	3260 Ethyl Cyclo		4					OK	
100519	JA58900-1MB				5					OK	
100520	JA58900-1				6					OK	
100521	-7				7					OK	
100522	-8				8					OK	
100523	JA58900-6				9					OK	
100524	-5				10					OK	7412
100525	JA58900-2				11					OK	
100526	-3				12					OK	
100527	-4				13					OK	
100528	-5				14					OK	
100529	-6				15					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.

67

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

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prn: OR015-05

rev. Date: 1/16/2006

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EH4374

Date: 10-26-10

Analyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
500521-W	Ethyl acetate	5.00g

Columns: 30m x 0.25mm x 1.0um

Method: Ethyl acetate

Initial Cal. Method: 1/4362 EPG

Injection Volume: 2.0ul

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: 10-27-10

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
4/100572	CCY82-5				41					1ch	Summary = 5.00g/5ml
100573	AB	153576			82					1ch	5.0g/5ml
100574	BS				83					1ch	5.0g/5ml
100575	2450500-345				4					Not used	5.0g/5ml
100576	2450500-345				5					Not used	5.0g/5ml
100577	2450500-3				6					1ch	5.0g/5ml
100578	-9				7					1ch	5.0g/5ml
100579	10				8					Not used	Report 2nd run! 5.0g/5ml
100580	11				9					1ch	5.0g/5ml
100581	14				10					1ch	5.0g/5ml
100582	18				11					1ch	5.0g/5ml
100583	12				12					1ch	5.0g/5ml
100584	14				13					1ch	5.0g/5ml
100585	17				14					1ch	5.0g/5ml
100586	12				15					1ch	5.0g/5ml
100587	11				16					1ch	5.0g/5ml

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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Form: OR015-05

Rev. Date: 1/16/2006



ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EH4374

Date: 10/27/10

Analyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
50052140	Ethyl Propyl Chlor	100%

Columns: PTX-200 30m x 0.25mm x 1/4"

Method: Ethyl + Propyl Chlor

Initial Cal. Method: 1/4X2000

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: 10/28/10

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
11008800	LC4362.5			2	1					ck	Sample = 50ppm Chloro = 5ppm
100885	B32			8	2					ck	5ug/5ml
100890	B52			8	3					ck	5ug/5ml
100891	2450500-345	4536406	8260 Ethyl Chlor	8	4					ck	5ug/5ml
100892	2450500-345				5					ck	5ug/5ml
100893	2450500-145				6					ck	5ug/5ml Control by 2nd run
100894	-2				7					ck	5ug/5ml
100895	-4				8					ck	5ug/5ml
100896	-7				9					ck	5ug/5ml
100897	-8				10					ck	5ug/5ml Report 2nd run
100898	-10				11					ck	5ug/5ml Report 2nd run
100899	-11				12					ck	5ug/5ml Report 2nd run
100900	-12				13					ck	5ug/5ml
100901	-14				14					ck	5ug/5ml
100902	2450500-6	4536406	8260 Ethyl Chlor	8	5					ck	5ug/5ml
2 100903	2450500-145				6					ck	5ug/5ml
100904	-7				9					ck	5ug/5ml

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:

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Form: OR015-05

Rev. Date: 1/16/2006

**ACCUTEST.**

VOLATILE ANALYSIS LOG

Batch ID: VV4432Print Analyst Name: Don G. M22Analyst Signature: DonDate: 8/4/10

Standard Data (ppm)		
Lot #	Description	Conc.
V010-202-59	2nd only	750/1000
V010-202-P8	2nd	100
V010-202-P5	2nd	100
V010-202-28	2nd	1000
V010-202-27	2nd	1000

Standard Data (ppm)		
Lot #	Description	Conc.
V010-202-26	2nd	100
V010-202-27	2nd	100
V010-202-P4	2nd	100
V010-202-28	2nd	100
V010-202-25	2nd	100

Columns: 2B-624/60 m x .25 mm x 1.4 mmMethod 2ndInitial Cal. Method in VS4432

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: 8/4/2010

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
	V105726	2B													
	V105727	2B													
	V105728	2C4432-10													
	V105729	2C4432-8													
	V105730	2C4432-2													
	V105731	2C4432-7													
	V105732	2C4432-10													
	V105733	2C4432-20													
	V105734	2C4432-50													
	V105735	2C4432-100													
	V105736	2C4432-200													
	V105737	2B													
	V105738	2B													
	V105739	2C4432-50													
	V105740	2B													
	V105741	2B													

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

55



Batch ID: VV4452

Analyst Signature: _____

Standard Data

Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
	P 55	

Columns: 28/24

Method 2760

Initial Cal. Method $\frac{MVS 4.332}{1.7 \times 4.5}$
m 240

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: 8/4/2020

[illegible]

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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Print Analyst Name: J. Lin

Analyst Signature: _____

 Date: 10/21/2010 (THU) 10/21/10

Standard Data

Lot #	Description	Conc.
108860-02	8260 A 11/5	100 ppm
-21	B 1/21	
-44	Ext A 1/27	
-81	C 10/25	
-77	Ext C 1/22	

Standard Data

Lot #	Description	Conc.
108860-04	Acetone 1/5	1000 ppm
-43	Oct Acet 1/27	
-86	Sub INT/CHP 1/27	20/250
-77	S (NTSHF) 1/18	100
-91	Vinyl Bromide 2/28	

 Columns: 28624 60m x .25mm X 1.4um

 Method V860

 Initial Cal. Method VV54452

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: 10/21/10

R	Data File	Sample ID	Test	M T X	Vial #	ALS #	Sample Amt (ml of g)	MOH amt. (ul)	Secondary dilution	L +	S S	U U	Status (Data)	Comments	pH <2
	V108524	BFB				1							OK	9.56 cm	
	108525	CC4452-20				2							NG	1.01H A 15 C. Acro. VB 5/5.10ml ACE ↑	
	108506	CC4452-20				3							OK		
	108507	MB1				4							OK		
	108508	BS1				5							OK	2.54H Ext CA C. Acro 15 VB 5/5.10ml	
	108509	IB				6							NG	cleaning.	
	108510	IC4452-5				7							OK	5 ml of VB / 100 Aliz. 5ml	
	108511	IC4452-10				8							OK	5 ml of VB / 50	to purge
	108512	IC4452-20				9							OK	10	
	108513	IC4452-50				10							OK	25	
	108514	ICV4452-50				11							OK	25 50 10/21	
	108515	IC4452-100				12							OK	50	
	108516	IC4452-200				13							OK	100	
	108517	IB				14							NG	cleaning.	
	108518	IB				15							NOT RUN		
	108519	IB				16									
	108520	IB				17									

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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Print Analyst Name: Juanma Li

Analyst Signature: _____

Date: 10/21/2010 (THUR.)

Standard Data

Lot #	Description	Conc.
Vial 865-60	Std A	415
-34	B	10 ¹²
-44	Std A	10 ¹²
-51	C	10 ¹²
-71	Std C	10 ¹²

Standard Data

Lot #	Description	Conc.
Wk 810-54	Aucloctin 1/15	1000 ppm
-43	Ect Aucloct 1/17	↓
-86	ABOINTEIR 1/19	2800 ppm
-73	SHRUB 1/18	1000
-91	Vinyl Bromide 1/19	↓

Columns: ZB624 6mm X .75mm X 1.49 ft. ea

Method 18260

Initial Cal. Method NW54452

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

Supervisor Signature:

Date: 11/12/16

[illegible]

*X = 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.

strike outs must be initiated, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; computer miscalculation; 4 = analyst's correction error

nm: OR001-9

**ACCUTEST.**

VOLATILE ANALYSIS LOG

Batch ID: VX4516Date: 9/13/2010Print Analyst Name: AUSTIN PARKAnalyst Signature: TP

Standard Data

Lot #	Description	Conc.
010-862-96	ACROCEIN	100ppm
010-862-13	EXT. ACROCEIN	↓
↓ -139	INTISUR	100/250ppm

Standard Data

Lot #	Description	Conc.
010-862-12	STD. A	100ppm
↓ -139	B	
010-862-11	↓ C	
010-862-143	EXT. A	
010-862-16	↓ C	↓

Columns: Z06+4Method V8260Initial Cal. Method MX45-8

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: TP 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 + S	I S U	Status (Data)	Comments	pH <2
	X106936	BFB				1								
	106937	CC4508-20				2							1000/50ml STD. A+B+C ACROCEIN	
	106938	MIB				3								
	106939	BFB BFB TP9/13/10				4							1000/50ml EXT. A+B/C STD. B EXT. ACROCEIN	
	106940	CC4508-20 TP9/13/10				5								
	106941	CC4508-20 JA55982-1 TP9/13/10	TP9/13/10 STAR		5	6	4.5							
	106942	JA55982-1MS	STAR		2	1	4.5					NOT RAN	1000/50ml STD. A+B+C ACROCEIN	
	106943	JA55982-1MSD	↓		2	8	4.5						↓	
	106944	IB				7								
	106945	JA55955-24	1946 TCLH+	S C I B	1	10	5.0							
	106946	JA55835-1 JA55982-1 TP9/13/10	1070 NTPCLH+ TBA	S Z	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 > 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

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Print Analyst Name: AUSTIN PARK

Analyst Signature: 71P

Date: 9/13/2010

Standard Data

[illegible]

Standard Data

Lot #	Description	Conc.
PALVE-249		

Columns: ZB624

Method V8260

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: 8/7/16

Supervisor Signature: [Signature] Date: 8/17/10

[illegible]

ITX = 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

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Rev. Date: 2/14/2007

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**ACCUTEST.**

VOLATILE ANALYSIS LOG

Batch ID: VX4516Date: 9/14/2010Print Analyst Name: ALISTIN PARKAnalyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.
010-860-146	ACROLEIN	100ppm
010-860-03	EXT-ACROLEIN	↓
010-860-09	INT	100/100ppm
010-860-174	SUR	100ppm

Standard Data

Lot #	Description	Conc.
010-860-129	STD-A	100ppm
↓ -139	↓ B	↓
010-860-11	↓ C	↓
010-860-148	EXT-A	↓
010-860-16	↓ C	↓

Columns: Z86-4Method V8260Initial Cal. Method MAX4503 MAX4516
7/19/10

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: 9/17/10

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
X	106943	BFB				1							QC		
	106944	104516-1				2							QC	10ul/50ml 100	STD A+B+C ACROLEIN SURrogate
	106945	104516-5				3							QC	5ul/50ml 100	
	106946	104516-2				4							QC	2ul/50ml 100	
	106947	104516-0.5				5							QC	0.5ul/50ml 100	
	106948	104516-10 <u>7/29/10</u>				6							QC	10ul/50ml 100	
	106949	104516-20				7							QC	10ul/50ml 25ul/50ml 15ul/50ml	STD. A+B+C ACROLEIN SURrogate
	106950	104516-50				8							QC		
	106951	104516-50				9							QC	25ul/50ml 15ul/50ml	STD A+C/STD B EXT-ACROLEIN
	106952	104516-100				10							QC	50ul/50ml	STD. A+B+C ACROLEIN SURrogate
	106953	104516-200				11							QC	100ul/50ml <u>7/19/10</u>	
	106954	IB				12									
	106955 7/29/10														

7/19 9/14/2010

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;
= computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

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Date: 10/26/2010
Standard Data

Lot #	Description	Conc.
10-86-85	ACROLEIN	100ppm
87	EST. ACROLEIN	↓
88	INT. SUR	200/250 ppm
95	VINYL BENZIDE	100ppm

Standard Data

Lot #	Description	Conc.
010-86-86	STD. A	100ppm
91	↓ B	↓
93	↓ C	↓
94	EST. A	↓
92	↓ C	↓

Columns: ZB/Z4 (60m x 250um x 1/4mm)

Method VE260

Initial Cal. Method MX 446

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: 10/26/2010

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
	108347	BFB				1								OK		11:37 AM
	108348	CC4516-20				2								NG	100ppm STD. A+D1C ACROLEIN	
	108347	CC4516-20				3								W OK	413.12, 43.57, 65.72, 73.82, 94.14, 106.13, 122.133	
	108348	MB				4								W OK		
	108349	BS				5								W OK	100ppm EST. ACROLEIN	
	108350	IB				6								W OK	VINYL BENZIDE	
	108351	JA58900-73	3577 AP95L BNZLCH EPICH. VINYLB		1	7	5.0							W OK		
	108352	JA58900-3			26	8	10.8							W OK	RRX CFS, CFI.	
	108353	JA58900-3MS			25	9	10.5							W OK	75.41/30mL STD. A+D1C ACROLEIN	
	108354	JA58900-3MSD			24	10	10.2							W OK	VINYL BENZIDE	
	108355	IB				11								W OK		
R	108356	JA59271-14A	3780 TEL11+10		1	12	5.0							W OK		
R	108357	JA59192-2	3739 TEL11+10		4	13	4.8							W OK		
R	108358	JA58900-7	3577 AP95L BNZLCH EPICH. VINYLB		27	14	7.7							W OK	CFS, CFI	
	108359	JA58900-8			10	15	10.4							W OK		
	108360	JA58900-9			10	16	12.2							W OK		
	10861	JA58900-10			10	17	9.7							W OK		

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.

If 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: 11/1/10
VX4579 + 4579Date: 10/27/2010Print Analyst Name: AUSTIN PARKAnalyst Signature: JP

Standard Data

Lot #	Description	Conc.
108395	ACETONE	1000ppm
-89	ETHANOL	↓
-82	ISOPROP	100/1000ppm
✓ -95	VINYL BROMIDE	100ppm

Standard Data

Lot #	Description	Conc.
108396	STD-A	1000ppm
-91	B	↓
-93	C	↓
-44	ETH-A	↓
✓ -92	C	↓

Columns: ZB624 (6mm x 250um x 1.4um)Method V6260Initial Cal. Method MX4576

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: 11/1/10

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
	108390	BFB				1									1:46 PM
	108391	CC4576-20				2							NET	10ul/50ml STD-A+B+C ACETONE #173 (ccc) VINYL BROMIDE	
	108392	CC4576-20				3							W on	↓	
	108393	MB2				4							W on	VX4576	
	108394	BSZ				5							W on	75ul/50ml ETH-A/STD-B (ul) ETHANOL VINYL BROMIDE	
	108395	IB				6									
	108396	JA58900-7	3577 MISC-BENZOL ETHYL-VINYL		10	7	16.2						W 9.		
	108397	JA58900-30	↓		28	8	9.5						HT on	↓	5:49 PM

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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Sample Summary

AECOM, INC.

Job No: JA58750A

Bell Bend Nuclear Power Plant, Salem Township, PA
 Project No: 60160208

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JA58750-1T	10/12/10	10:26 MH	10/13/10	SO	Soil	BBNP-CW1-C
JA58750-2T	10/12/10	10:10 MH	10/13/10	SO	Soil	BBNP-CW2-C
JA58750-3T	10/12/10	12:02 MH	10/13/10	SO	Soil	BBNP-CW3-C
JA58750-4T	10/12/10	12:40 MH	10/13/10	SO	Soil	BBNP-CW6-C
JA58750-5T	10/12/10	14:23 MH	10/13/10	SO	Soil	BBNP-CW9-C
JA58750-6T	10/12/10	14:23 MH	10/13/10	SO	Soil	BBNP-CW9-FD
JA58750-7T	10/12/10	14:51 MH	10/13/10	SO	Soil	BBNP-CW12-C
JA58750-8T	10/12/10	15:49 MH	10/13/10	SO	Soil	BBNP-CW15-C
JA58750-9T	10/12/10	16:11 MH	10/13/10	SO	Soil	BBNP-CW18-C
JA58750-10T	10/12/10	16:29 MH	10/13/10	SO	Soil	BBNP-CW21-C
JA58750-11DT	10/13/10	08:25 MH	10/13/10	SO	Soil Dup/MSD	BBNP-CW5-C-MSD
JA58750-11ST	10/13/10	08:25 MH	10/13/10	SO	Soil Matrix Spike	BBNP-CW5-C-MS
JA58750-11T	10/13/10	08:25 MH	10/13/10	SO	Soil	BBNP-CW5-C

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary (continued)

AECOM, INC.

Job No: JA58750A

Bell Bend Nuclear Power Plant, Salem Township, PA
Project No: 60160208

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
JA58750-12T	10/13/10	08:55 MH	10/13/10	SO Soil	BBNP-CW8-C
JA58750-13T	10/13/10	09:25 MH	10/13/10	SO Soil	BBNP-CW11-C
JA58750-14T	10/13/10	10:01 MH	10/13/10	SO Soil	BBNP-CW14-C
JA58750-15T	10/13/10	10:25 MH	10/13/10	SO Soil	BBNP-CW17-C
JA58750-16T	10/13/10	11:15 MH	10/13/10	SO Soil	BBNP-CW20-C
JA58750-17T	10/13/10	11:58 MH	10/13/10	SO Soil	BBNP-CW23-C
JA58750-18T	10/13/10	11:15 MH	10/13/10	SO Soil	BBNP-CW20-C-FD

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

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J A 58750A

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Case Narrative: Accutest Job No. JA58750 A
Semi Quantitative Determination of Missing Target Compounds

Volatile organic and semi-volatile organic data files from the analysis of samples from Accutest Job JA58750 were computer processed to determine the presence or absence of specific target compounds that were omitted from the initial data report. Qualitative and semi-quantitative analysis was performed using a previously generated calibration data for the compounds of interest that were updated using a single point calibration check if possible to re-establish retention times of the individual target compounds.

The samples for volatile organics were initially analyzed on two different instruments, MSS and MSV. Older calibration data for the majority compounds of interest was available on instrument MSV. However, calibration data from another GC/MS instrument, MS1B – an EPA 524 volatile organics calibration, was used for one compound. The calibration data used for individual compounds on each instrument are blocked for identification.

The calibration data from instruments MSV and MS1B were combined and used to create a new method that was applied to the volatile organics data from the initial sample analysis. Standard reference materials were not immediately available to confirm the retention time of the compounds of interest on the instruments used for the initial analysis. As a result, an expanded retention time search window was employed during the search and quantitation process to compensate for potential retention time differences.

The samples for semi-volatile organics were initially analyzed on two different instruments, MS2p and MS3P. Previously determined calibration data for the compounds of interest were not available on either instrument. Accordingly, calibration data from another GC/MS instrument; MSP was used to address all compounds of interest.

The calibration retention times of the Semi-volatile compounds of interest were updated by analyzing a single point calibration check and using that retention time to establish the search windows used for reprocessing the original sample data files.

Case Narrative: Accutest Job No. JA58750
Semi-Volatile Extract Re-Analysis for Reporting Limit Verification

Semi-volatile organic sample extracts from JA58750 were reconstituted and re-analyzed by GC/MS to verify the reporting limit concentrations reported for the re-processed semi-volatile organic data files from the original sample extract analysis. Appendix IX standard solutions were analyzed with the sample extracts to verify the sensitivity of the instrument and the reporting limits detailed for the specific target compounds that were omitted from the initial data report.

Raw instrument data is provided for the analysis of the standards solutions and the reconstituted sample extracts. All samples extracts and standards were analyzed on GC/MS Instrument 2P. All extracts required solvent addition to some extent.

Appendix IX semi-volatile standard solutions were analyzed at nominal concentrations of 2.0ppb and 5.0ppb to verify instrument sensitivity, re-establish retention times and relative retention time windows. The standards analysis verified that the reporting limits for the reprocessed data were reasonable.

7.1

RESULTS FOR JA58750A

Report of Analysis

Page 1 of 1

Client Sample ID: BBNP-CW1-C

Lab Sample ID: JA58750-1T

Matrix: SO - Soil

Method: SW846 8260B

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Date Sampled: 10/12/10

Date Received: 10/13/10

Percent Solids: 78.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108264T.D	1	10/23/10	JTP	n/a	n/a	VX4575
Run #2							

	Initial Weight
Run #1	11.7 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	2.7		ug/kg	
108-94-1	Cyclohexanone	ND	110	6.1	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	2.7	0.052	ug/kg	
140-88-5	Ethyl Acrylate	ND	2.7	0.70	ug/kg	
75-68-3	Freon 142B	ND	2.7	0.68	ug/kg	
96-33-3	Methyl Acrylate	ND	2.7	0.23	ug/kg	
25013-15-4	Vinyltoluene	ND	2.7		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		67-127%
17060-07-0	1,2-Dichloroethane-D4	97%		65-132%
2037-26-5	Toluene-D8	107%		74-129%
460-00-4	4-Bromofluorobenzene	108%		62-138%

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNP-CW1-C

Lab Sample ID: JA58750-1T

Date Sampled: 10/12/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8270C SW846 3550B

Percent Solids: 78.4

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2252R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	180	41	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	180	33	ug/kg	
92-67-1	4-Aminobiphenyl	ND	180	18	ug/kg	
510-15-6	Chlorobenzilate	ND	180	22	ug/kg	
2303-16-4	Diallate	ND	180	28	ug/kg	
122-39-4	Diphenylamine	ND	180	29	ug/kg	
99-65-0	m-Dinitrobenzene	ND	180	37	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	180	24	ug/kg	
98-01-1	Furfural	ND	180		ug/kg	
143-50-0	Kepone	ND	1100	180	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	180	4.7	ug/kg	
66-27-3	Methyl methanesulfonate	ND	180	23	ug/kg	
134-32-7	1-Naphthylamine	ND	180	24	ug/kg	
91-59-8	2-Naphthylamine	ND	180	24	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	180	37	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	180	25	ug/kg	
608-93-5	Pentachlorobenzene	ND	180	28	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	180	63	ug/kg	
62-44-2	Phenacetin	ND	180	39	ug/kg	
23950-58-5	Pronamide	ND	180	33	ug/kg	
95-53-4	o-Toluidine	ND	180	28	ug/kg	
106-49-0	p-Toluidine	ND	180		ug/kg	
108-44-1	m-Toluidine	ND	180		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		30-109%
4165-62-2	Phenol-d5	35%		28-108%
118-79-6	2,4,6-Tribromophenol	36%		28-125%
4165-60-0	Nitrobenzene-d5	52%		28-113%
321-60-8	2-Fluorobiphenyl	51%		38-107%
1718-51-0	Terphenyl-d14	53%		31-116%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: BBNP-CW2-C

Lab Sample ID: JA58750-2T

Date Sampled: 10/12/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8260B

Percent Solids: 82.4

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108265T.D	1	10/23/10	JTP	n/a	n/a	VX4575
Run #2							

	Initial Weight
Run #1	11.2 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	2.7		ug/kg	
108-94-1	Cyclohexanone	ND	110	6.1	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	2.7	0.052	ug/kg	
140-88-5	Ethyl Acrylate	ND	2.7	0.70	ug/kg	
75-68-3	Freon 142B	ND	2.7	0.67	ug/kg	
96-33-3	Methyl Acrylate	ND	2.7	0.23	ug/kg	
25013-15-4	Vinyltoluene	ND	2.7		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		67-127%
17060-07-0	1,2-Dichloroethane-D4	98%		65-132%
2037-26-5	Toluene-D8	106%		74-129%
460-00-4	4-Bromofluorobenzene	114%		62-138%

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	BBNP-CW2-C	Date Sampled:	10/12/10
Lab Sample ID:	JA58750-2T	Date Received:	10/13/10
Matrix:	SO - Soil	Percent Solids:	82.4
Method:	SW846 8270C SW846 3550B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2253R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	170	39	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	170	31	ug/kg	
92-67-1	4-Aminobiphenyl	ND	170	17	ug/kg	
510-15-6	Chlorobenzilate	ND	170	21	ug/kg	
2303-16-4	Diallate	ND	170	27	ug/kg	
122-39-4	Diphenylamine	ND	170	28	ug/kg	
99-65-0	m-Dinitrobenzene	ND	170	35	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	170	23	ug/kg	
98-01-1	Furfural	ND	170		ug/kg	
143-50-0	Kepone	ND	1000	170	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	170	4.5	ug/kg	
66-27-3	Methyl methanesulfonate	ND	170	22	ug/kg	
134-32-7	1-Naphthylamine	ND	170	23	ug/kg	
91-59-8	2-Naphthylamine	ND	170	22	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	170	36	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	170	24	ug/kg	
608-93-5	Pentachlorobenzene	ND	170	27	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	170	60	ug/kg	
62-44-2	Phenacetin	ND	170	37	ug/kg	
23950-58-5	Pronamide	ND	170	32	ug/kg	
95-53-4	o-Toluidine	ND	170	26	ug/kg	
106-49-0	p-Toluidine	ND	170		ug/kg	
108-44-1	m-Toluidine	ND	170		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%		30-109%
4165-62-2	Phenol-d5	48%		28-108%
118-79-6	2,4,6-Tribromophenol	44%		28-125%
4165-60-0	Nitrobenzene-d5	58%		28-113%
321-60-8	2-Fluorobiphenyl	54%		38-107%
1718-51-0	Terphenyl-d14	66%		31-116%

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: BBNP-CW3-C

Lab Sample ID: JA58750-3T

Date Sampled: 10/12/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8260B

Percent Solids: 83.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108266T.D	1	10/23/10	JTP	n/a	n/a	VX4575
Run #2							

	Initial Weight
Run #1	11.0 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	2.7		ug/kg	
108-94-1	Cyclohexanone	ND	110	6.1	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	2.7	0.052	ug/kg	
140-88-5	Ethyl Acrylate	ND	2.7	0.70	ug/kg	
75-68-3	Freon 142B	ND	2.7	0.67	ug/kg	
96-33-3	Methyl Acrylate	ND	2.7	0.23	ug/kg	
25013-15-4	Vinyltoluene	ND	2.7		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		67-127%
17060-07-0	1,2-Dichloroethane-D4	97%		65-132%
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	116%		62-138%

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNP-CW3-C

Lab Sample ID: JA58750-3T

Date Sampled: 10/12/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8270C SW846 3550B

Percent Solids: 83.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2254R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	170	39	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	170	31	ug/kg	
92-67-1	4-Aminobiphenyl	ND	170	17	ug/kg	
510-15-6	Chlorobenzilate	ND	170	21	ug/kg	
2303-16-4	Diallate	ND	170	27	ug/kg	
122-39-4	Diphenylamine	ND	170	27	ug/kg	
99-65-0	m-Dinitrobenzene	ND	170	35	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	170	22	ug/kg	
98-01-1	Furfural	ND	170		ug/kg	
143-50-0	Kepone	ND	1000	170	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	170	4.4	ug/kg	
66-27-3	Methyl methanesulfonate	ND	170	22	ug/kg	
134-32-7	1-Naphthylamine	ND	170	23	ug/kg	
91-59-8	2-Naphthylamine	ND	170	22	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	170	35	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	170	24	ug/kg	
608-93-5	Pentachlorobenzene	ND	170	27	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	170	59	ug/kg	
62-44-2	Phenacetin	ND	170	37	ug/kg	
23950-58-5	Pronamide	ND	170	31	ug/kg	
95-53-4	o-Toluidine	ND	170	26	ug/kg	
106-49-0	p-Toluidine	ND	170		ug/kg	
108-44-1	m-Toluidine	ND	170		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		30-109%
4165-62-2	Phenol-d5	37%		28-108%
118-79-6	2,4,6-Tribromophenol	38%		28-125%
4165-60-0	Nitrobenzene-d5	49%		28-113%
321-60-8	2-Fluorobiphenyl	49%		38-107%
1718-51-0	Terphenyl-d14	58%		31-116%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	BBNP-CW6-C	Date Sampled:	10/12/10
Lab Sample ID:	JA58750-4T	Date Received:	10/13/10
Matrix:	SO - Soil	Percent Solids:	83.4
Method:	SW846 8260B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108267T.D	1	10/23/10	JTP	n/a	n/a	VX4575
Run #2							

	Initial Weight
Run #1	10.4 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	2.9		ug/kg	
108-94-1	Cyclohexanone	ND	120	6.5	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	2.9	0.055	ug/kg	
140-88-5	Ethyl Acrylate	ND	2.9	0.74	ug/kg	
75-68-3	Freon 142B	ND	2.9	0.71	ug/kg	
96-33-3	Methyl Acrylate	ND	2.9	0.25	ug/kg	
25013-15-4	Vinyltoluene	ND	2.9		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		67-127%
17060-07-0	1,2-Dichloroethane-D4	96%		65-132%
2037-26-5	Toluene-D8	106%		74-129%
460-00-4	4-Bromofluorobenzene	138%		62-138%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNP-CW6-C	Date Sampled:	10/12/10
Lab Sample ID:	JA58750-4T	Date Received:	10/13/10
Matrix:	SO - Soil	Percent Solids:	83.4
Method:	SW846 8270C SW846 3550B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2255R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	170	39	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	170	31	ug/kg	
92-67-1	4-Aminobiphenyl	ND	170	17	ug/kg	
510-15-6	Chlorobenzilate	ND	170	21	ug/kg	
2303-16-4	Diallate	ND	170	27	ug/kg	
122-39-4	Diphenylamine	ND	170	27	ug/kg	
99-65-0	m-Dinitrobenzene	ND	170	35	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	170	22	ug/kg	
98-01-1	Furfural	ND	170		ug/kg	
143-50-0	Kepone	ND	1000	170	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	170	4.4	ug/kg	
66-27-3	Methyl methanesulfonate	ND	170	22	ug/kg	
134-32-7	1-Naphthylamine	ND	170	23	ug/kg	
91-59-8	2-Naphthylamine	ND	170	22	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	170	35	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	170	24	ug/kg	
608-93-5	Pentachlorobenzene	ND	170	27	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	170	59	ug/kg	
62-44-2	Phenacetin	ND	170	37	ug/kg	
23950-58-5	Pronamide	ND	170	31	ug/kg	
95-53-4	o-Toluidine	ND	170	26	ug/kg	
106-49-0	p-Toluidine	ND	170		ug/kg	
108-44-1	m-Toluidine	ND	170		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		30-109%
4165-62-2	Phenol-d5	34%		28-108%
118-79-6	2,4,6-Tribromophenol	38%		28-125%
4165-60-0	Nitrobenzene-d5	45%		28-113%
321-60-8	2-Fluorobiphenyl	42%		38-107%
1718-51-0	Terphenyl-d14	57%		31-116%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: BBNP-CW9-C

Lab Sample ID: JA58750-5T

Matrix: SO - Soil

Method: SW846 8260B

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Date Sampled: 10/12/10

Date Received: 10/13/10

Percent Solids: 78.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108268T.D	1	10/23/10	JTP	n/a	n/a	VX4575
Run #2							

	Initial Weight
Run #1	11.6 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	2.8		ug/kg	
108-94-1	Cyclohexanone	ND	110	6.2	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	2.8	0.053	ug/kg	
140-88-5	Ethyl Acrylate	ND	2.8	0.71	ug/kg	
75-68-3	Freon 142B	ND	2.8	0.68	ug/kg	
96-33-3	Methyl Acrylate	ND	2.8	0.24	ug/kg	
25013-15-4	Vinyltoluene	ND	2.8		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		67-127%
17060-07-0	1,2-Dichloroethane-D4	94%		65-132%
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	117%		62-138%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNP-CW9-C

Lab Sample ID: JA58750-5T

Date Sampled: 10/12/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8270C SW846 3550B

Percent Solids: 78.3

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2256R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	180	41	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	180	33	ug/kg	
92-67-1	4-Aminobiphenyl	ND	180	18	ug/kg	
510-15-6	Chlorobenzilate	ND	180	22	ug/kg	
2303-16-4	Diallate	ND	180	29	ug/kg	
122-39-4	Diphenylamine	ND	180	29	ug/kg	
99-65-0	m-Dinitrobenzene	ND	180	37	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	180	24	ug/kg	
98-01-1	Furfural	ND	180		ug/kg	
143-50-0	Kepone	ND	1100	180	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	180	4.7	ug/kg	
66-27-3	Methyl methanesulfonate	ND	180	23	ug/kg	
134-32-7	1-Naphthylamine	ND	180	25	ug/kg	
91-59-8	2-Naphthylamine	ND	180	24	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	180	37	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	180	26	ug/kg	
608-93-5	Pentachlorobenzene	ND	180	28	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	180	63	ug/kg	
62-44-2	Phenacetin	ND	180	39	ug/kg	
23950-58-5	Pronamide	ND	180	33	ug/kg	
95-53-4	o-Toluidine	ND	180	28	ug/kg	
106-49-0	p-Toluidine	ND	180		ug/kg	
108-44-1	m-Toluidine	ND	180		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		30-109%
4165-62-2	Phenol-d5	39%		28-108%
118-79-6	2,4,6-Tribromophenol	38%		28-125%
4165-60-0	Nitrobenzene-d5	53%		28-113%
321-60-8	2-Fluorobiphenyl	51%		38-107%
1718-51-0	Terphenyl-d14	68%		31-116%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: BBNP-CW9-FD

Lab Sample ID: JA58750-6T

Date Sampled: 10/12/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8260B

Percent Solids: 85.2

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108269T.D	1	10/23/10	JTP	n/a	n/a	VX4575
Run #2							

	Initial Weight
Run #1	10.5 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	2.8		ug/kg	
108-94-1	Cyclohexanone	ND	110	6.3	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	2.8	0.054	ug/kg	
140-88-5	Ethyl Acrylate	ND	2.8	0.72	ug/kg	
75-68-3	Freon 142B	ND	2.8	0.69	ug/kg	
96-33-3	Methyl Acrylate	ND	2.8	0.24	ug/kg	
25013-15-4	Vinyltoluene	ND	2.8		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		67-127%
17060-07-0	1,2-Dichloroethane-D4	97%		65-132%
2037-26-5	Toluene-D8	107%		74-129%
460-00-4	4-Bromofluorobenzene	113%		62-138%

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ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNP-CW9-FD

Lab Sample ID: JA58750-6T

Date Sampled: 10/12/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8270C SW846 3550B

Percent Solids: 85.2

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2257R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	170	38	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	170	30	ug/kg	
92-67-1	4-Aminobiphenyl	ND	170	16	ug/kg	
510-15-6	Chlorobenzilate	ND	170	20	ug/kg	
2303-16-4	Diallate	ND	170	26	ug/kg	
122-39-4	Diphenylamine	ND	170	27	ug/kg	
99-65-0	m-Dinitrobenzene	ND	170	34	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	170	22	ug/kg	
98-01-1	Furfural	ND	170		ug/kg	
143-50-0	Kepone	ND	1000	170	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	170	4.3	ug/kg	
66-27-3	Methyl methanesulfonate	ND	170	21	ug/kg	
134-32-7	1-Naphthylamine	ND	170	23	ug/kg	
91-59-8	2-Naphthylamine	ND	170	22	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	170	34	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	170	24	ug/kg	
608-93-5	Pentachlorobenzene	ND	170	26	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	170	58	ug/kg	
62-44-2	Phenacetin	ND	170	36	ug/kg	
23950-58-5	Pronamide	ND	170	31	ug/kg	
95-53-4	o-Toluidine	ND	170	25	ug/kg	
106-49-0	p-Toluidine	ND	170		ug/kg	
108-44-1	m-Toluidine	ND	170		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		30-109%
4165-62-2	Phenol-d5	56%		28-108%
118-79-6	2,4,6-Tribromophenol	50%		28-125%
4165-60-0	Nitrobenzene-d5	70%		28-113%
321-60-8	2-Fluorobiphenyl	65%		38-107%
1718-51-0	Terphenyl-d14	79%		31-116%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: BBNP-CW12-C

Lab Sample ID: JA58750-7T

Matrix: SO - Soil

Method: SW846 8260B

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Date Sampled: 10/12/10

Date Received: 10/13/10

Percent Solids: 85.8

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108270T.D	1	10/24/10	JTP	n/a	n/a	VX4575
Run #2							

Run #	Initial Weight
Run #1	9.9 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	2.9		ug/kg	
108-94-1	Cyclohexanone	ND	120	6.6	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	2.9	0.057	ug/kg	
140-88-5	Ethyl Acrylate	ND	2.9	0.76	ug/kg	
75-68-3	Freon 142B	ND	2.9	0.73	ug/kg	
96-33-3	Methyl Acrylate	ND	2.9	0.25	ug/kg	
25013-15-4	Vinyltoluene	ND	2.9		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93 %		67-127 %
17060-07-0	1,2-Dichloroethane-D4	97 %		65-132 %
2037-26-5	Toluene-D8	108 %		74-129 %
460-00-4	4-Bromofluorobenzene	118 %		62-138 %

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNP-CW12-C		
Lab Sample ID:	JA58750-7T	Date Sampled:	10/12/10
Matrix:	SO - Soil	Date Received:	10/13/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	85.8
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2270R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	170	38	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	170	30	ug/kg	
92-67-1	4-Aminobiphenyl	ND	170	16	ug/kg	
510-15-6	Chlorobenzilate	ND	170	20	ug/kg	
2303-16-4	Diallate	ND	170	26	ug/kg	
122-39-4	Diphenylamine	ND	170	27	ug/kg	
99-65-0	m-Dinitrobenzene	ND	170	34	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	170	22	ug/kg	
98-01-1	Furfural	ND	170		ug/kg	
143-50-0	Kepone	ND	1000	170	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	170	4.3	ug/kg	
66-27-3	Methyl methanesulfonate	ND	170	21	ug/kg	
134-32-7	1-Naphthylamine	ND	170	22	ug/kg	
91-59-8	2-Naphthylamine	ND	170	22	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	170	34	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	170	23	ug/kg	
608-93-5	Pentachlorobenzene	ND	170	26	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	170	57	ug/kg	
62-44-2	Phenacetin	ND	170	36	ug/kg	
23950-58-5	Pronamide	ND	170	30	ug/kg	
95-53-4	o-Toluidine	ND	170	25	ug/kg	
106-49-0	p-Toluidine	ND	170		ug/kg	
108-44-1	m-Toluidine	ND	170		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		30-109%
4165-62-2	Phenol-d5	44%		28-108%
118-79-6	2,4,6-Tribromophenol	41%		28-125%
4165-60-0	Nitrobenzene-d5	53%		28-113%
321-60-8	2-Fluorobiphenyl	49%		38-107%
1718-51-0	Terphenyl-d14	61%		31-116%

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: BBNP-CW15-C

Lab Sample ID: JA58750-8T

Date Sampled: 10/12/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8260B

Percent Solids: 83.6

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108271T.D	1	10/24/10	JTP	n/a	n/a	VX4575
Run #2							

	Initial Weight
Run #1	9.9 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	3.0		ug/kg	
108-94-1	Cyclohexanone	ND	120	6.8	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	3.0	0.058	ug/kg	
140-88-5	Ethyl Acrylate	ND	3.0	0.78	ug/kg	
75-68-3	Freon 142B	ND	3.0	0.75	ug/kg	
96-33-3	Methyl Acrylate	ND	3.0	0.26	ug/kg	
25013-15-4	Vinyltoluene	ND	3.0		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		67-127%
17060-07-0	1,2-Dichloroethane-D4	103%		65-132%
2037-26-5	Toluene-D8	110%		74-129%
460-00-4	4-Bromofluorobenzene	112%		62-138%

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: BBNP-CW15-C

Lab Sample ID: JA58750-8T

Date Sampled: 10/12/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8270C SW846 3550B

Percent Solids: 83.6

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2258R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	170	39	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	170	31	ug/kg	
92-67-1	4-Aminobiphenyl	ND	170	17	ug/kg	
510-15-6	Chlorobenzilate	ND	170	21	ug/kg	
2303-16-4	Diallate	ND	170	27	ug/kg	
122-39-4	Diphenylamine	ND	170	27	ug/kg	
99-65-0	m-Dinitrobenzene	ND	170	35	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	170	22	ug/kg	
98-01-1	Furfural	ND	170		ug/kg	
143-50-0	Kepone	ND	1000	170	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	170	4.4	ug/kg	
66-27-3	Methyl methanesulfonate	ND	170	22	ug/kg	
134-32-7	1-Naphthylamine	ND	170	23	ug/kg	
91-59-8	2-Naphthylamine	ND	170	22	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	170	35	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	170	24	ug/kg	
608-93-5	Pentachlorobenzene	ND	170	27	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	170	59	ug/kg	
62-44-2	Phenacetin	ND	170	37	ug/kg	
23950-58-5	Pronamide	ND	170	31	ug/kg	
95-53-4	o-Toluidine	ND	170	26	ug/kg	
106-49-0	p-Toluidine	ND	170		ug/kg	
108-44-1	m-Toluidine	ND	170		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		30-109%
4165-62-2	Phenol-d5	36%		28-108%
118-79-6	2,4,6-Tribromophenol	41%		28-125%
4165-60-0	Nitrobenzene-d5	48%		28-113%
321-60-8	2-Fluorobiphenyl	48%		38-107%
1718-51-0	Terphenyl-d14	64%		31-116%

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ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	BBNP-CW18-C	Date Sampled:	10/12/10
Lab Sample ID:	JA58750-9T	Date Received:	10/13/10
Matrix:	SO - Soil	Percent Solids:	75.4
Method:	SW846 8260B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108272T.D	1	10/24/10	JTP	n/a	n/a	VX4575
Run #2							

	Initial Weight
Run #1	9.1 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	3.6		ug/kg	
108-94-1	Cyclohexanone	ND	150	8.2	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	3.6	0.070	ug/kg	
140-88-5	Ethyl Acrylate	ND	3.6	0.94	ug/kg	
75-68-3	Freon 142B	ND	3.6	0.90	ug/kg	
96-33-3	Methyl Acrylate	ND	3.6	0.31	ug/kg	
25013-15-4	Vinyltoluene	ND	3.6		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		67-127%
17060-07-0	1,2-Dichloroethane-D4	99%		65-132%
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	115%		62-138%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNP-CW18-C

Lab Sample ID: JA58750-9T

Date Sampled: 10/12/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8270C SW846 3550B

Percent Solids: 75.4

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2259R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	190	43	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	190	34	ug/kg	
92-67-1	4-Aminobiphenyl	ND	190	18	ug/kg	
510-15-6	Chlorobenzilate	ND	190	23	ug/kg	
2303-16-4	Diallate	ND	190	30	ug/kg	
122-39-4	Diphenylamine	ND	190	30	ug/kg	
99-65-0	m-Dinitrobenzene	ND	190	38	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	190	25	ug/kg	
98-01-1	Furfural	ND	190		ug/kg	
143-50-0	Kepone	ND	1100	190	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	190	4.9	ug/kg	
66-27-3	Methyl methanesulfonate	ND	190	24	ug/kg	
134-32-7	1-Naphthylamine	ND	190	25	ug/kg	
91-59-8	2-Naphthylamine	ND	190	24	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	190	39	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	190	26	ug/kg	
608-93-5	Pentachlorobenzene	ND	190	29	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	190	65	ug/kg	
62-44-2	Phenacetin	ND	190	41	ug/kg	
23950-58-5	Pronamide	ND	190	35	ug/kg	
95-53-4	o-Toluidine	ND	190	29	ug/kg	
106-49-0	p-Toluidine	ND	190		ug/kg	
108-44-1	m-Toluidine	ND	190		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		30-109%
4165-62-2	Phenol-d5	36%		28-108%
118-79-6	2,4,6-Tribromophenol	38%		28-125%
4165-60-0	Nitrobenzene-d5	50%		28-113%
321-60-8	2-Fluorobiphenyl	47%		38-107%
1718-51-0	Terphenyl-d14	62%		31-116%

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ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: BBNP-CW21-C

Lab Sample ID: JA58750-10T

Date Sampled: 10/12/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8260B

Percent Solids: 81.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108309T.D	1	10/25/10	JTP	n/a	n/a	VX4577
Run #2							

	Initial Weight
Run #1	10.4 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	2.9		ug/kg	
108-94-1	Cyclohexanone	ND	120	6.6	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	2.9	0.056	ug/kg	
140-88-5	Ethyl Acrylate	ND	2.9	0.76	ug/kg	
75-68-3	Freon 142B	ND	2.9	0.73	ug/kg	
96-33-3	Methyl Acrylate	ND	2.9	0.25	ug/kg	
25013-15-4	Vinyltoluene	ND	2.9		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		67-127%
17060-07-0	1,2-Dichloroethane-D4	110%		65-132%
2037-26-5	Toluene-D8	112%		74-129%
460-00-4	4-Bromofluorobenzene	137%		62-138%

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNP-CW21-C		Date Sampled:	10/12/10
Lab Sample ID:	JA58750-10T		Date Received:	10/13/10
Matrix:	SO - Soil		Percent Solids:	81.8
Method:	SW846 8270C SW846 3550B			
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2280R.D	1	11/03/10	KP	10/22/10	OP46301	E2P128
Run #2							

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	170	40	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	170	31	ug/kg	
92-67-1	4-Aminobiphenyl	ND	170	17	ug/kg	
510-15-6	Chlorobenzilate	ND	170	21	ug/kg	
2303-16-4	Diallate	ND	170	27	ug/kg	
122-39-4	Diphenylamine	ND	170	28	ug/kg	
99-65-0	m-Dinitrobenzene	ND	170	36	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	170	23	ug/kg	
98-01-1	Furfural	ND	170		ug/kg	
143-50-0	Kepone	ND	1000	170	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	170	4.5	ug/kg	
66-27-3	Methyl methanesulfonate	ND	170	22	ug/kg	
134-32-7	1-Naphthylamine	ND	170	23	ug/kg	
91-59-8	2-Naphthylamine	ND	170	23	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	170	36	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	170	24	ug/kg	
608-93-5	Pentachlorobenzene	ND	170	27	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	170	60	ug/kg	
62-44-2	Phenacetin	ND	170	38	ug/kg	
23950-58-5	Pronamide	ND	170	32	ug/kg	
95-53-4	o-Toluidine	ND	170	26	ug/kg	
106-49-0	p-Toluidine	ND	170		ug/kg	
108-44-1	m-Toluidine	ND	170		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		30-109%
4165-62-2	Phenol-d5	50%		28-108%
118-79-6	2,4,6-Tribromophenol	45%		28-125%
4165-60-0	Nitrobenzene-d5	61%		28-113%
321-60-8	2-Fluorobiphenyl	57%		38-107%
1718-51-0	Terphenyl-d14	68%		31-116%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: BBNP-CW5-C

Lab Sample ID: JA58750-11T

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8260B

Percent Solids: 83.5

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108259T.D	1	10/23/10	JTP	n/a	n/a	VX4575
Run #2							

	Initial Weight
Run #1	9.4 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	3.2		ug/kg	
108-94-1	Cyclohexanone	ND	130	7.1	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	3.2	0.061	ug/kg	
140-88-5	Ethyl Acrylate	ND	3.2	0.82	ug/kg	
75-68-3	Freon 142B	ND	3.2	0.79	ug/kg	
96-33-3	Methyl Acrylate	ND	3.2	0.27	ug/kg	
25013-15-4	Vinyltoluene	ND	3.2		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		67-127%
17060-07-0	1,2-Dichloroethane-D4	95%		65-132%
2037-26-5	Toluene-D8	106%		74-129%
460-00-4	4-Bromofluorobenzene	134%		62-138%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNP-CW5-C

Lab Sample ID: JA58750-11T

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8270C SW846 3550B

Percent Solids: 83.5

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2261R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

	Initial Weight	Final Volume
Run #1	35.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	170	39	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	170	31	ug/kg	
92-67-1	4-Aminobiphenyl	ND	170	17	ug/kg	
510-15-6	Chlorobenzilate	ND	170	21	ug/kg	
2303-16-4	Diallate	ND	170	27	ug/kg	
122-39-4	Diphenylamine	ND	170	27	ug/kg	
99-65-0	m-Dinitrobenzene	ND	170	35	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	170	22	ug/kg	
98-01-1	Furfural	ND	170		ug/kg	
143-50-0	Kepone	ND	1000	170	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	170	4.4	ug/kg	
66-27-3	Methyl methanesulfonate	ND	170	22	ug/kg	
134-32-7	1-Naphthylamine	ND	170	23	ug/kg	
91-59-8	2-Naphthylamine	ND	170	22	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	170	35	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	170	24	ug/kg	
608-93-5	Pentachlorobenzene	ND	170	26	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	170	59	ug/kg	
62-44-2	Phenacetin	ND	170	37	ug/kg	
23950-58-5	Pronamide	ND	170	31	ug/kg	
95-53-4	o-Toluidine	ND	170	26	ug/kg	
106-49-0	p-Toluidine	ND	170		ug/kg	
108-44-1	m-Toluidine	ND	170		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		30-109%
4165-62-2	Phenol-d5	48%		28-108%
118-79-6	2,4,6-Tribromophenol	44%		28-125%
4165-60-0	Nitrobenzene-d5	58%		28-113%
321-60-8	2-Fluorobiphenyl	57%		38-107%
1718-51-0	Terphenyl-d14	71%		31-116%

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ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: BBNP-CW8-C

Lab Sample ID: JA58750-12T

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8260B

Percent Solids: 79.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108310T.D	1	10/25/10	JTP	n/a	n/a	VX4577
Run #2							

Initial Weight

Run #1 10.9 g

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	2.9		ug/kg	
108-94-1	Cyclohexanone	ND	120	6.4	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	2.9	0.055	ug/kg	
140-88-5	Ethyl Acrylate	ND	2.9	0.74	ug/kg	
75-68-3	Freon 142B	ND	2.9	0.71	ug/kg	
96-33-3	Methyl Acrylate	ND	2.9	0.25	ug/kg	
25013-15-4	Vinyltoluene	ND	2.9		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		67-127%
17060-07-0	1,2-Dichloroethane-D4	109%		65-132%
2037-26-5	Toluene-D8	112%		74-129%
460-00-4	4-Bromofluorobenzene	129%		62-138%

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ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNP-CW8-C

Lab Sample ID: JA58750-12T

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8270C SW846 3550B

Percent Solids: 79.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2281R.D	1	11/03/10	KP	10/22/10	OP46301	E2P128
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	180	41	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	180	32	ug/kg	
92-67-1	4-Aminobiphenyl	ND	180	17	ug/kg	
510-15-6	Chlorobenzilate	ND	180	22	ug/kg	
2303-16-4	Diallate	ND	180	28	ug/kg	
122-39-4	Diphenylamine	ND	180	29	ug/kg	
99-65-0	m-Dinitrobenzene	ND	180	36	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	180	23	ug/kg	
98-01-1	Furfural	ND	180		ug/kg	
143-50-0	Kepone	ND	1100	180	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	180	4.6	ug/kg	
66-27-3	Methyl methanesulfonate	ND	180	23	ug/kg	
134-32-7	1-Naphthylamine	ND	180	24	ug/kg	
91-59-8	2-Naphthylamine	ND	180	23	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	180	37	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	180	25	ug/kg	
608-93-5	Pentachlorobenzene	ND	180	28	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	180	61	ug/kg	
62-44-2	Phenacetin	ND	180	38	ug/kg	
23950-58-5	Pronamide	ND	180	33	ug/kg	
95-53-4	o-Toluidine	ND	180	27	ug/kg	
106-49-0	p-Toluidine	ND	180		ug/kg	
108-44-1	m-Toluidine	ND	180		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		30-109%
4165-62-2	Phenol-d5	34%		28-108%
118-79-6	2,4,6-Tribromophenol	35%		28-125%
4165-60-0	Nitrobenzene-d5	41%		28-113%
321-60-8	2-Fluorobiphenyl	39%		38-107%
1718-51-0	Terphenyl-d14	53%		31-116%

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ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	BBNP-CW11-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58750-13T	Date Received:	10/13/10
Matrix:	SO - Soil	Percent Solids:	82.7
Method:	SW846 8260B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108311T.D	1	10/25/10	JTP	n/a	n/a	VX4577
Run #2							

	Initial Weight
Run #1	10.7 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	2.8		ug/kg	
108-94-1	Cyclohexanone	ND	110	6.3	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	2.8	0.054	ug/kg	
140-88-5	Ethyl Acrylate	ND	2.8	0.73	ug/kg	
75-68-3	Freon 142B	ND	2.8	0.70	ug/kg	
96-33-3	Methyl Acrylate	ND	2.8	0.24	ug/kg	
25013-15-4	Vinyltoluene	ND	2.8		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		67-127%
17060-07-0	1,2-Dichloroethane-D4	114%		65-132%
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	175%		62-138%

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNP-CW11-C

Lab Sample ID: JA58750-13T

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8270C SW846 3550B

Percent Solids: 82.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2264R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	170	39	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	170	31	ug/kg	
92-67-1	4-Aminobiphenyl	ND	170	17	ug/kg	
510-15-6	Chlorobenzilate	ND	170	21	ug/kg	
2303-16-4	Diallate	ND	170	27	ug/kg	
122-39-4	Diphenylamine	ND	170	28	ug/kg	
99-65-0	m-Dinitrobenzene	ND	170	35	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	170	23	ug/kg	
98-01-1	Furfural	ND	170		ug/kg	
143-50-0	Kepone	ND	1000	170	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	170	4.4	ug/kg	
66-27-3	Methyl methanesulfonate	ND	170	22	ug/kg	
134-32-7	1-Naphthylamine	ND	170	23	ug/kg	
91-59-8	2-Naphthylamine	ND	170	22	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	170	35	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	170	24	ug/kg	
608-93-5	Pentachlorobenzene	ND	170	27	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	170	60	ug/kg	
62-44-2	Phenacetin	ND	170	37	ug/kg	
23950-58-5	Pronamide	ND	170	32	ug/kg	
95-53-4	o-Toluidine	ND	170	26	ug/kg	
106-49-0	p-Toluidine	ND	170		ug/kg	
108-44-1	m-Toluidine	ND	170		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		30-109%
4165-62-2	Phenol-d5	35%		28-108%
118-79-6	2,4,6-Tribromophenol	38%		28-125%
4165-60-0	Nitrobenzene-d5	49%		28-113%
321-60-8	2-Fluorobiphenyl	49%		38-107%
1718-51-0	Terphenyl-d14	70%		31-116%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	BBNP-CW14-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58750-14T	Date Received:	10/13/10
Matrix:	SO - Soil	Percent Solids:	84.5
Method:	SW846 8260B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108312T.D	1	10/25/10	JTP	n/a	n/a	VX4577
Run #2							

	Initial Weight
Run #1	9.7 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	3.1		ug/kg	
108-94-1	Cyclohexanone	ND	120	6.8	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	3.1	0.059	ug/kg	
140-88-5	Ethyl Acrylate	ND	3.1	0.79	ug/kg	
75-68-3	Freon 142B	ND	3.1	0.76	ug/kg	
96-33-3	Methyl Acrylate	ND	3.1	0.26	ug/kg	
25013-15-4	Vinyltoluene	ND	3.1		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		67-127%
17060-07-0	1,2-Dichloroethane-D4	111%		65-132%
2037-26-5	Toluene-D8	113%		74-129%
460-00-4	4-Bromofluorobenzene	124%		62-138%

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNP-CW14-C

Lab Sample ID: JA58750-14T

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8270C SW846 3550B

Percent Solids: 84.5

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2265R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	170	38	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	170	30	ug/kg	
92-67-1	4-Aminobiphenyl	ND	170	16	ug/kg	
510-15-6	Chlorobenzilate	ND	170	20	ug/kg	
2303-16-4	Diallate	ND	170	26	ug/kg	
122-39-4	Diphenylamine	ND	170	27	ug/kg	
99-65-0	m-Dinitrobenzene	ND	170	34	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	170	22	ug/kg	
98-01-1	Furfural	ND	170		ug/kg	
143-50-0	Kepone	ND	1000	170	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	170	4.3	ug/kg	
66-27-3	Methyl methanesulfonate	ND	170	21	ug/kg	
134-32-7	1-Naphthylamine	ND	170	23	ug/kg	
91-59-8	2-Naphthylamine	ND	170	22	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	170	35	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	170	24	ug/kg	
608-93-5	Pentachlorobenzene	ND	170	26	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	170	58	ug/kg	
62-44-2	Phenacetin	ND	170	36	ug/kg	
23950-58-5	Pronamide	ND	170	31	ug/kg	
95-53-4	o-Toluidine	ND	170	25	ug/kg	
106-49-0	p-Toluidine	ND	170		ug/kg	
108-44-1	m-Toluidine	ND	170		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	94%		30-109%
4165-62-2	Phenol-d5	78%		28-108%
118-79-6	2,4,6-Tribromophenol	60%		28-125%
4165-60-0	Nitrobenzene-d5	98%		28-113%
321-60-8	2-Fluorobiphenyl	92%		38-107%
1718-51-0	Terphenyl-d14	107%		31-116%

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ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: BBNP-CW17-C

Lab Sample ID: JA58750-15T

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8260B

Percent Solids: 78.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108260T.D	1	10/23/10	JTP	n/a	n/a	VX4575
Run #2							

Run #	Initial Weight
Run #1	11.2 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	2.8		ug/kg	
108-94-1	Cyclohexanone	ND	110	6.4	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	2.8	0.054	ug/kg	
140-88-5	Ethyl Acrylate	ND	2.8	0.73	ug/kg	
75-68-3	Freon 142B	ND	2.8	0.70	ug/kg	
96-33-3	Methyl Acrylate	ND	2.8	0.24	ug/kg	
25013-15-4	Vinyltoluene	ND	2.8		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		67-127%
17060-07-0	1,2-Dichloroethane-D4	97%		65-132%
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	116%		62-138%

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNP-CW17-C

Lab Sample ID: JA58750-15T

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8270C SW846 3550B

Percent Solids: 78.7

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2266R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	180	41	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	180	33	ug/kg	
92-67-1	4-Aminobiphenyl	ND	180	18	ug/kg	
510-15-6	Chlorobenzilate	ND	180	22	ug/kg	
2303-16-4	Diallate	ND	180	28	ug/kg	
122-39-4	Diphenylamine	ND	180	29	ug/kg	
99-65-0	m-Dinitrobenzene	ND	180	37	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	180	24	ug/kg	
98-01-1	Furfural	ND	180		ug/kg	
143-50-0	Kepone	ND	1100	180	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	180	4.7	ug/kg	
66-27-3	Methyl methanesulfonate	ND	180	23	ug/kg	
134-32-7	1-Naphthylamine	ND	180	24	ug/kg	
91-59-8	2-Naphthylamine	ND	180	23	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	180	37	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	180	25	ug/kg	
608-93-5	Pentachlorobenzene	ND	180	28	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	180	62	ug/kg	
62-44-2	Phenacetin	ND	180	39	ug/kg	
23950-58-5	Pronamide	ND	180	33	ug/kg	
95-53-4	o-Toluidine	ND	180	27	ug/kg	
106-49-0	p-Toluidine	ND	180		ug/kg	
108-44-1	m-Toluidine	ND	180		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		30-109%
4165-62-2	Phenol-d5	47%		28-108%
118-79-6	2,4,6-Tribromophenol	39%		28-125%
4165-60-0	Nitrobenzene-d5	59%		28-113%
321-60-8	2-Fluorobiphenyl	57%		38-107%
1718-51-0	Terphenyl-d14	72%		31-116%

38

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	BBNP-CW20-C	Date Sampled:	10/13/10
Lab Sample ID:	JA58750-16T	Date Received:	10/13/10
Matrix:	SO - Soil	Percent Solids:	81.4
Method:	SW846 8260B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108261T.D	1	10/23/10	JTP	n/a	n/a	VX4575
Run #2							

Run #	Initial Weight
Run #1	8.9 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	3.5		ug/kg	
108-94-1	Cyclohexanone	ND	140	7.7	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	3.5	0.066	ug/kg	
140-88-5	Ethyl Acrylate	ND	3.5	0.89	ug/kg	
75-68-3	Freon 142B	ND	3.5	0.86	ug/kg	
96-33-3	Methyl Acrylate	ND	3.5	0.29	ug/kg	
25013-15-4	Vinyltoluene	ND	3.5		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		67-127%
17060-07-0	1,2-Dichloroethane-D4	98%		65-132%
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	108%		62-138%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: BBNP-CW20-C

Lab Sample ID: JA58750-16T

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8270C SW846 3550B

Percent Solids: 81.4

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2267R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	180	40	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	180	32	ug/kg	
92-67-1	4-Aminobiphenyl	ND	180	17	ug/kg	
510-15-6	Chlorobenzilate	ND	180	21	ug/kg	
2303-16-4	Diallate	ND	180	27	ug/kg	
122-39-4	Diphenylamine	ND	180	28	ug/kg	
99-65-0	m-Dinitrobenzene	ND	180	36	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	180	23	ug/kg	
98-01-1	Furfural	ND	180		ug/kg	
143-50-0	Kepone	ND	1100	180	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	180	4.5	ug/kg	
66-27-3	Methyl methanesulfonate	ND	180	22	ug/kg	
134-32-7	1-Naphthylamine	ND	180	24	ug/kg	
91-59-8	2-Naphthylamine	ND	180	23	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	180	36	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	180	25	ug/kg	
608-93-5	Pentachlorobenzene	ND	180	27	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	180	61	ug/kg	
62-44-2	Phenacetin	ND	180	38	ug/kg	
23950-58-5	Pronamide	ND	180	32	ug/kg	
95-53-4	o-Toluidine	ND	180	27	ug/kg	
106-49-0	p-Toluidine	ND	180		ug/kg	
108-44-1	m-Toluidine	ND	180		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		30-109%
4165-62-2	Phenol-d5	46%		28-108%
118-79-6	2,4,6-Tribromophenol	49%		28-125%
4165-60-0	Nitrobenzene-d5	63%		28-113%
321-60-8	2-Fluorobiphenyl	60%		38-107%
1718-51-0	Terphenyl-d14	72%		31-116%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: BBNP-CW23-C

Lab Sample ID: JA58750-17T

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8260B

Percent Solids: 79.1

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108262T.D	1	10/23/10	JTP	n/a	n/a	VX4575
Run #2 ^a	X108313T.D	1	10/25/10	JTP	n/a	n/a	VX4577

	Initial Weight
Run #1	9.2 g
Run #2	9.9 g

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	3.4		ug/kg	
108-94-1	Cyclohexanone	ND	140	7.7	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	3.4	0.066	ug/kg	
140-88-5	Ethyl Acrylate	ND	3.4	0.89	ug/kg	
75-68-3	Freon 142B	ND	3.4	0.85	ug/kg	
96-33-3	Methyl Acrylate	ND	3.4	0.29	ug/kg	
25013-15-4	Vinyltoluene	ND	3.4		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	120%	67-127%
17060-07-0	1,2-Dichloroethane-D4	97%	115%	65-132%
2037-26-5	Toluene-D8	106%	98%	74-129%
460-00-4	4-Bromofluorobenzene	143%	198%	62-138%

(a) Confirmation run for surrogate recovery.

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNP-CW23-C

Lab Sample ID: JA58750-17T

Matrix: SO - Soil

Method: SW846 8270C SW846 3550B

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Date Sampled: 10/13/10

Date Received: 10/13/10

Percent Solids: 79.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2268R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	180	41	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	180	32	ug/kg	
92-67-1	4-Aminobiphenyl	ND	180	18	ug/kg	
510-15-6	Chlorobenzilate	ND	180	22	ug/kg	
2303-16-4	Diallate	ND	180	28	ug/kg	
122-39-4	Diphenylamine	ND	180	29	ug/kg	
99-65-0	m-Dinitrobenzene	ND	180	37	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	180	24	ug/kg	
98-01-1	Furfural	ND	180		ug/kg	
143-50-0	Kepone	ND	1100	180	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	180	4.6	ug/kg	
66-27-3	Methyl methanesulfonate	ND	180	23	ug/kg	
134-32-7	1-Naphthylamine	ND	180	24	ug/kg	
91-59-8	2-Naphthylamine	ND	180	23	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	180	37	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	180	25	ug/kg	
608-93-5	Pentachlorobenzene	ND	180	28	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	180	62	ug/kg	
62-44-2	Phenacetin	ND	180	39	ug/kg	
23950-58-5	Pronamide	ND	180	33	ug/kg	
95-53-4	o-Toluidine	ND	180	27	ug/kg	
106-49-0	p-Toluidine	ND	180		ug/kg	
108-44-1	m-Toluidine	ND	180		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		30-109%
4165-62-2	Phenol-d5	41%		28-108%
118-79-6	2,4,6-Tribromophenol	40%		28-125%
4165-60-0	Nitrobenzene-d5	53%		28-113%
321-60-8	2-Fluorobiphenyl	48%		38-107%
1718-51-0	Terphenyl-d14	58%		31-116%

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ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: BBNP-CW20-C-FD

Lab Sample ID: JA58750-18T

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8260B

Percent Solids: 59.4

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108263T.D	1	10/23/10	JTP	n/a	n/a	VX4575
Run #2							

	Initial Weight
Run #1	8.9 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	4.7		ug/kg	
108-94-1	Cyclohexanone	ND	190	11	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	4.7	0.091	ug/kg	
140-88-5	Ethyl Acrylate	ND	4.7	1.2	ug/kg	
75-68-3	Freon 142B	ND	4.7	1.2	ug/kg	
96-33-3	Methyl Acrylate	ND	4.7	0.40	ug/kg	
25013-15-4	Vinyltoluene	ND	4.7		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		67-127%
17060-07-0	1,2-Dichloroethane-D4	102%		65-132%
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	109%		62-138%

43

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNP-CW20-C-FD

Lab Sample ID: JA58750-18T

Date Sampled: 10/13/10

Matrix: SO - Soil

Date Received: 10/13/10

Method: SW846 8270C SW846 3550B

Percent Solids: 59.4

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P2269R.D	1	11/02/10	NAP	10/22/10	OP46301	E2P127
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	240	55	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	240	43	ug/kg	
92-67-1	4-Aminobiphenyl	ND	240	23	ug/kg	
510-15-6	Chlorobenzilate	ND	240	29	ug/kg	
2303-16-4	Diallate	ND	240	38	ug/kg	
122-39-4	Diphenylamine	ND	240	39	ug/kg	
99-65-0	m-Dinitrobenzene	ND	240	49	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	240	32	ug/kg	
98-01-1	Furfural	ND	240		ug/kg	
143-50-0	Kepone	ND	1400	240	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	240	6.2	ug/kg	
66-27-3	Methyl methanesulfonate	ND	240	31	ug/kg	
134-32-7	1-Naphthylamine	ND	240	32	ug/kg	
91-59-8	2-Naphthylamine	ND	240	31	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	240	50	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	240	34	ug/kg	
608-93-5	Pentachlorobenzene	ND	240	38	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	240	83	ug/kg	
62-44-2	Phenacetin	ND	240	52	ug/kg	
23950-58-5	Pronamide	ND	240	44	ug/kg	
95-53-4	o-Toluidine	ND	240	37	ug/kg	
106-49-0	p-Toluidine	ND	240		ug/kg	
108-44-1	m-Toluidine	ND	240		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		30-109%
4165-62-2	Phenol-d5	53%		28-108%
118-79-6	2,4,6-Tribromophenol	59%		28-125%
4165-60-0	Nitrobenzene-d5	65%		28-113%
321-60-8	2-Fluorobiphenyl	61%		38-107%
1718-51-0	Terphenyl-d14	79%		31-116%

44

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

ENSR

CHAIN OF CUSTODY RECORD

JAS3750+X Page 1 of 2

Client/Project Name: UNE BBNPP			Project Location: Susquehanna River			Analysis Requested			Container Type P - Plastic A - Amber Glass G - Clear Glass V - VOA Vial O - Other E - Encore		Preservation 1 - HCl, 4° 2 - H2SO4, 4° 3 - HNO3, 4° 4 - NaOH, 4° 5 - NaOH/ZnAc, 4° 6 - Na2S2O3, 4° 7 - 4°							
Project Number: 60164208			Field Logbook No.: BBNPP-SP-1															
Sampler (Print Name)/(Affiliation): Mike Hauser / AECOM			Chain of Custody Tape Nos.:															
Signature: 			Send Results/Report to: DION LEWIS			TAT: Normal												
Field Sample No./Identification	Date	Time	C O M P	G R A B	Sample Container (Size/Mat'l)	Matrix	Preserv.	Field Filtered	VOCs	Ethylene Glycol	TCDD Dioxin	Formaldehyde	Organophos Pest.	Combined Chemistry	Archive VOCs	Archive	Lab I.D.	Remarks
BBNP-CW1-C	10/12/10	10:26	X		A/5 612 V/3	SD	not/ice	N	X	X	X	X	X	X	X	X	-1	UTC43,
BBNP-CW2-C	10/12/10	10:10	X			SD			X	X	X	X	X	X	X	X	-2	14B4,
BBNP-CW3-C	10/12/10	12:02	X			SD			X	X	X	X	X	X	X	X	-3	4059,
BBNP-CW6-C	10/12/10	12:40	X			SD			X	X	X	X	X	X	X	X	-4	19M3,
BBNP-CW9-C	10/12/10	14:23	X			SD			X	X	X	X	X	X	X	X	-5	19M4,
BBNP-CW9-C-FD	10/12/10	14:23	X			SD			X	X	X	X	X	X	X	X	-6	508,
BBNP-CW12-C	10/12/10	14:51	X			SD			X	X	X	X	X	X	X	X	-7	WC39
BBNP-CW15-C	10/12/10	15:49	X			SD			X	X	X	X	X	X	X	X	-8	
BBNP-CW18-C	10/12/10	16:11	X			SD			X	X	X	X	X	X	X	X	-9	
BBNP-CW21-C	10/12/10	16:29	X			SD			X	X	X	X	X	X	X	X	-10	
T101310					V/3	AQ			X									
D.I. slurry voc vials frozen storage																		
Date: 10/13/10 Time: 03:27 Initials: <u>KW</u> Field Kits Received																		
Relinquished by: (Print Name)/(Affiliation) Mike Hauser / AECOM			Date: 10/13/10 Time: 14:50			Received by: (Print Name)/(Affiliation) Anil Patel			Date: 10/13/10 Time: 3:10 P.M.			Analytical Laboratory (Destination): SEALS Intact 6 coolers 5.2, 3.7, 5.8, 4.6, 4.1, 2.9						
Signature:						Signature:												
Relinquished by: (Print Name)/(Affiliation) AP Patel			Date: 10-13-10 Time: 1900			Received by: (Print Name)/(Affiliation) A			Date: 10/13/10 Time: 3:10 P.M.									
Signature:						Signature:												
Relinquished by: (Print Name)/(Affiliation) Rebecca BY			Date: 10-13-10 Time: 19:00			Received by: (Print Name)/(Affiliation) Priori + Y			Date: 10/13/10 Time: 3:10 P.M.									
Signature:						Signature:												
Sample Shipped Via: UPS FedEx <u>Courier</u> Other																		
Temp blank <u>Yes</u> No																		

ENSR

CHAIN OF CUSTODY RECORD

JAS875D

Page 2 of 2

Client/Project Name: UNE BBNPP			Project Location: Susquehanna River			Analysis Requested										Container Type P - Plastic A - Amber Glass G - Clear Glass V - VOA Vial O - Other E - Encore		Preservation 1 - HCl, 4° 2 - H2SO4, 4° 3 - HNO3, 4° 4 - NaOH, 4° 5 - NaOH/ZnAc, 4° 6 - Na2S2O3, 4° 7 - 4°	
Project Number: 60160208			Field Logbook No.: BBNPP-SP-1			VOCs Ethylene Glycol TCDD Dioxin Formaldehyde Organophos Pest. Combined Chemistry Archive VOCs Archive										Matrix Codes: DW - Drinking Water WW - Wastewater GW - Groundwater SW - Surface Water ST - Storm Water W - Water		S - Soil SL - Sludge SD - Sediment SO - Solid A - Air L - Liquid P - Product	
Sampler (Print Name)/(Affiliation): Mike Hauser / AECOM			Chain of Custody Tape Nos.:													Lab I.D.		Remarks	
Signature: 			Send Results/Report to: DION LEWIS													TAT: NORMAL			
Field Sample No./Identification	Date	Time	C O M P	G R A B	Sample Container (Size/Mat'l)	Matrix	Preserv.	Field Filtered	VOCs	Ethylene Glycol	TCDD Dioxin	Formaldehyde	Organophos Pest.	Combined Chemistry	Archive VOCs	Archive	Lab I.D.	Remarks	
BBNP-CW5-C	10/13/10	08:25	X		A15, G12, V13	SD	MeOH/K2	N	X	X	X	X	X	X	X	X			
BBNP-CW5-C-MS	10/13/10	08:25	X			SD			X	X	X	X	X	X	X	X	11		
BBNP-CW5-C-MSD	10/13/10	08:25	X			SD			X	X	X	X	X	X	X	X			
BBNP-CW8-C	10/13/10	08:55	X			SD			X	X	X	X	X	X	X	X	12		
BBNP-CW11-C	10/13/10	09:25	X			SD			X	X	X	X	X	X	X	X	13		
BBNP-CW14-C	10/13/10	09:01	X			SD			X	X	X	X	X	X	X	X	14		
BBNP-CW17-C	10/13/10	10:25	X			SD			X	X	X	X	X	X	X	X	15		
BBNP-CW20-C	10/13/10	11:15	X			SD			X	X	X	X	X	X	X	X	16		
BBNP-CW23-C	10/13/10	11:58	X			SD			X	X	X	X	X	X	X	X	17		
BBNP-CW20-C-FO	10/13/10	11:15	X			SD	✓	✓	X	X	X	X	X	X	X	X	18		
Relinquished by: (Print Name)/(Affiliation) Mike Hauser / AECOM			Date: 10/13/10			Received by: (Print Name)/(Affiliation) Anil Patel			Date: 10/13/10			Analytical Laboratory (Destination):							
Signature:			Time: 19:50			Signature:			Time: 3:10 P.M.										
Relinquished by: (Print Name)/(Affiliation) Anil Patel			Date: 10-13-10			Received by: (Print Name)/(Affiliation)			Date:										
Signature:			Time: 19:00			Signature:			Time:										
Relinquished by: (Print Name)/(Affiliation)			Date:			Received by: (Print Name)/(Affiliation)			Date:										
Signature:			Time:			Signature:			Time:										
Sample Shipped Via:										Temp blank									
UPS FedEx Courier Other										Yes No									

JAS8750
COC

SAMPLE #	MEOH VIAL	D.I. VIAL	D.I. VIAL
JAS8750-1	108	305	306
-2	110	363	364
-3	111	361	362
-4	84	367	368
-5	106	301	302
-6	96	365	366
-7	99	371	372
-8	100	307	308
-9	105	303	339
-10	91	309	310
-11	82, 104, 107	311, 312, 313	314, 321, 322
-12	109	369	370
-13	83	323	324
-14	97	328	329
-15	86	330	340
-16	102	331	332
-17	81	315	316
-18	103	317	318
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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA58750

Client: ENSR-NY?

Immediate Client Services Action Required: Yes

Date / Time Received: 10/13/2010 1900

Delivery Method: Other Courier

Client Service Action Required at Login: No

Project: UNE BBNPP

No. Coolers: 6

Airbill #'s:

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | Infrared gun | |
| 3. Cooler media: | Ice (bag) | |

Quality Control Preservation

Y

N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

1. TB "T101310" NOT REC'D
2. "COMBINED CHEMISTRY" MEANS WHAT?
COPIES NOT CIRC'D EXCEPT SUB

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



Sample Receipt Summary - Problem Resolution

Accutest Job Number: JA58750

CSR: Tammy McCloskey

Response Date 10/14/2010

Response: 1. Client is still in field and may have this trip blank still. If so they will submit.
2. "Combined Chemistry" is: AB8270AP9SL, H8151STD, P8081PESTTCL, P8082PCB, XXCRA, CHL, CN, NO32, SO4, CR3, TOC, SB, AS, BA, BE, B, CD, CO, CU, PB, MN, HG, NI, SE, AG, TI, SN, V, ZN

All above per Dion Lewis.

Job Change Order: JA58750_11/4/2010

Requested Date:	11/4/2010	Received Date:	10/13/2010
Account Name:	AECOM, INC.	Due Date:	11/3/2010
Project Description:	Bell Bend Nuclear Power Plant, Salem Township,	Deliverable:	FULT1
CSR:	TM	TAT (Days):	14

Sample #: JA58750-1 through 18, 11S, 11D
Change: relog for XXCRAR

above Changes

Dion Lewis/Andrea Mischel

Date: 11/4/2010

Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Job Change Order:JA58750^{xf}_11/8/2010**Requested Date:** 11/8/2010**Received Date:** 10/13/2010**Account Name:** AECOM, INC.**Due Date:** 11/3/2010**Project Description:** Bell Bend Nuclear Power Plant, Salem Township,**Deliverable:** FULT1**CSR:** TM**TAT (Days):** 21**Sample #:**
JA58750-all "R"**Change:** please move all "R" samples for XXCRAR to an "R" job**Above Changes**

Dion Lewis

Date: 11/8/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Job Change Order: JA58750R_11/18/2010

Requested Date:	11/18/2010	Received Date:	10/13/2010
Account Name:	AECOM, INC.	Due Date:	11/18/2010
Project Description:	Bell Bend Nuclear Power Plant, Salem Township,	Deliverable:	FULT1
CSR:	TM	TAT (Days):	14

Sample #:
JA58750R-11R

Change: please relog on a separate job for FE2/7, SULFS, TOC

BBNP-CW5-C

Above Changes

Andrea
Andrea Mischel

Date: 11/18/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Job Change Order: JA58750_12/20/2010

Requested	12/20/2010	Received Date:	10/13/2010
Account Name:	AECOM, INC.	Due Date:	12/20/2010
Project	Bell Bend Nuclear Power Plant, Salem Township,	Deliverable:	FULT1
CSR:	MJ	TAT (Days):	14

Sample #:
JA58750-All

Change: Relog/retrieve for ABR8270SL, VR8260SL,
PR8081CHL, and H8151DALAPON, make DD 12/21

Above Changes Per: Tammy

Date: 12/20/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Job Change Order: JA58750_12/16/2010

Requested Date:	12/16/2010	Received Date:	10/13/2010
Account Name:	AECOM, INC.	Due Date:	11/3/2010
Project Description:	Bell Bend Nuclear Power Plant, Salem Township,	Deliverable:	FULT1
CSR:	TM	TAT (Days):	2

Sample #: JA58750-all **Change:** relog/retrieve on original job for TL

Above Changes

Andrea Mischel

Date: 12/16/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Job Change Order:JA58750^A_12/20/2010

Requested	12/20/2010	Received Date:	10/13/2010
Account Name:	AECOM, INC.	Due Date:	12/20/2010
Project	Bell Bend Nuclear Power Plant, Salem Township,	Deliverable:	FULT1
CSR:	MJ	TAT (Days):	14

Sample #:
JA58750-All

Change: Relog/retrieve for ABR8270SL, VR8260SL,
PR8081CHL, and H8151DALAPON, make DD 12/21

Above Changes Per: Tammy

Date: 12/20/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Accutest Internal Chain of Custody

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-1.1	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-1.1	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-1.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-1.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-1.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-1.1	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-1.1	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-1.1	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-1.1	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-1.1	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-1.1	Shirley Grzybowski	Barbara Clark	10/22/10 12:51	Custody Transfer
JA58750-1.1	Barbara Clark	Secured Storage	10/22/10 15:22	Return to Storage
JA58750-1.1	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-1.1	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-1.1	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-1.1	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-1.1	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-1.1	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-1.1	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-1.1	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-1.1	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-1.1	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-1.1.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-1.1
JA58750-1.1.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-1.1
JA58750-1.1.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-1.1.1	Extract Storage	Toya Dagena Raffington	10/19/10 10:52	Retrieve from Storage
JA58750-1.1.1	Toya Dagena Raffington	GCWW	10/19/10 10:52	Load on Instrument
JA58750-1.1.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-1.1.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-1.1.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-1.1.2	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-1.1
JA58750-1.2	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-1.2	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-1.2	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-1.2	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-1.2	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-1.2	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-1.2	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-1.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-1.2	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage

Accutest Internal Chain of Custody

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample/Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-1.2	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-1.2	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-1.2	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-1.2	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-1.2	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-1.2	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-1.2	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-1.2	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-1.2	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-1.2	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-1.2	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-1.2	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-1.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-1.2.1	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-1.2
JA58750-1.2.1	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-1.2
JA58750-1.2.1	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-1.2.1	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-1.2.1	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-1.2.1	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-1.2.1	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-1.2.1	Extract Freezer		12/02/10 09:00	Disposed
JA58750-1.2.2	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-1.2
JA58750-1.2.2	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-1.2
JA58750-1.2.2	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-1.2.2	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-1.2.2	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-1.2.2	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-1.2.2	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-1.2.2	Extract Freezer		12/06/10 09:00	Disposed
JA58750-1.2.3	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-1.2
JA58750-1.2.3	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-1.2
JA58750-1.2.3	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-1.2.3	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-1.2.3	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-1.2.3	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-1.2.3	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-1.2.3	Extract Freezer		12/06/10 09:00	Disposed
JA58750-1.2.4	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-1.2
JA58750-1.2.4	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-1.2

Accutest Internal Chain of Custody

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-1.2.4	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-1.2.4	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-1.2.4	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-1.2.4	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-1.2.5	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-1.2
JA58750-1.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-1.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-1.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-1.6	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-1.6	Kristi Schollenberger	GCMSSH	10/22/10 18:19	Load on Instrument
JA58750-1.6	GCMSSH	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-1.6	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-1.8	Secured Storage	Adam Scott	10/15/10 06:43	Retrieve from Storage
JA58750-1.8	Adam Scott	Nirali Patel	10/15/10 08:12	Custody Transfer
JA58750-1.8	Nirali Patel	Secured Storage	10/15/10 10:24	Return to Storage
JA58750-1.8	Secured Storage	Adam Scott	10/19/10 15:19	Retrieve from Storage
JA58750-1.8	Adam Scott	Barbara Clark	10/19/10 15:20	Custody Transfer
JA58750-1.8	Barbara Clark	Secured Storage	10/19/10 15:27	Return to Storage
JA58750-1.10	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-1.10	Juntae Park	GCMSSX	10/23/10 17:35	Load on Instrument
JA58750-1.10	GCMSSX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-1.10	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-2.1	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-2.1	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-2.1	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-2.1	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-2.1	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-2.1	Shirley Grzybowski	Barbara Clark	10/22/10 12:51	Custody Transfer
JA58750-2.1	Barbara Clark	Secured Storage	10/22/10 15:22	Return to Storage
JA58750-2.1	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-2.1	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-2.1	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-2.1	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-2.1	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-2.1	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer

Accutest Internal Chain of Custody

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-2.1	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-2.1	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-2.1	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-2.1	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-2.1	Secured Storage	Adam Scott	11/03/10 15:13	Retrieve from Storage
JA58750-2.1	Adam Scott	AnnMarie Luisi	11/03/10 15:19	Custody Transfer
JA58750-2.1	AnnMarie Luisi	Secured Storage	11/03/10 15:30	Return to Storage
JA58750-2.1	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-2.1	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-2.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-2.1.1	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-2.1
JA58750-2.1.2	AnnMarie Luisi	Organics Prep	11/03/10 15:19	Extract from JA58750-2.1
JA58750-2.1.2	Organics Prep	AnnMarie Luisi	11/03/10 15:33	Extract from JA58750-2.1
JA58750-2.1.2	AnnMarie Luisi	Extract Storage	11/03/10 15:34	Return to Storage
JA58750-2.1.2	Extract Storage	Anna Zuk	11/03/10 16:45	Retrieve from Storage
JA58750-2.1.2	Anna Zuk	GCOA	11/03/10 16:45	Load on Instrument
JA58750-2.1.2	GCOA	Toya Dagena Raffington	11/12/10 17:17	Unload from Instrument
JA58750-2.1.2	Toya Dagena Raffington	Extract Freezer	11/12/10 17:17	Return to Storage
JA58750-2.1.2	Extract Freezer		12/14/10 09:00	Disposed
JA58750-2.1.3	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-2.1
JA58750-2.2	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-2.2	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-2.2	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-2.2	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-2.2	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-2.2	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-2.2	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-2.2	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-2.2	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-2.2	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-2.2	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-2.2	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-2.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-2.2	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-2.2	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-2.2	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-2.2	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-2.2	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-2.2	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage

Bottle was returned to secure storage, but inadvertently not scanned.

Accutest Internal Chain of Custody

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Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-2.2	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-2.2	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-2.2	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-2.2	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-2.2	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-2.2.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-2.2
JA58750-2.2.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-2.2
JA58750-2.2.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-2.2.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:33	Retrieve from Storage
JA58750-2.2.1	Toya Dagena Raffington	GCWW	10/21/10 16:33	Load on Instrument
JA58750-2.2.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-2.2.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-2.2.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-2.2.2	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-2.2
JA58750-2.2.2	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-2.2
JA58750-2.2.2	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-2.2.2	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-2.2.2	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-2.2.2	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-2.2.2	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-2.2.2	Extract Freezer		12/02/10 09:00	Disposed
JA58750-2.2.3	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-2.2
JA58750-2.2.3	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-2.2
JA58750-2.2.3	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-2.2.3	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-2.2.3	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-2.2.3	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-2.2.3	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-2.2.3	Extract Freezer		12/06/10 09:00	Disposed
JA58750-2.2.4	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-2.2
JA58750-2.2.4	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-2.2
JA58750-2.2.4	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-2.2.4	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-2.2.4	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-2.2.4	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-2.2.4	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-2.2.4	Extract Freezer		12/06/10 09:00	Disposed
JA58750-2.2.5	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-2.2
JA58750-2.2.5	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-2.2

Accutest Internal Chain of Custody

Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-2.2.5	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-2.2.5	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-2.2.5	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-2.2.5	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-2.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-2.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-2.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-2.7	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-2.7	Kristi Schollenberger	GCMSSH	10/22/10 18:19	Load on Instrument
JA58750-2.7	GCMSSH	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-2.7	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-2.8	Secured Storage	Adam Scott	10/15/10 06:43	Retrieve from Storage
JA58750-2.8	Adam Scott	Nirali Patel	10/15/10 08:12	Custody Transfer
JA58750-2.8	Nirali Patel	Secured Storage	10/15/10 10:24	Return to Storage
JA58750-2.11	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-2.11	Juntae Park	GCMSSX	10/23/10 17:35	Load on Instrument
JA58750-2.11	GCMSSX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-2.11	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-3.1	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-3.1	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-3.1	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-3.1	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-3.1	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-3.1	Shirley Grzybowski	Barbara Clark	10/22/10 12:51	Custody Transfer
JA58750-3.1	Barbara Clark	Secured Storage	10/22/10 15:22	Return to Storage
JA58750-3.1	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-3.1	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-3.1	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-3.1	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-3.1	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-3.1	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-3.1	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-3.1	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-3.1	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-3.1	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-3.1	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-3.1	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-3.1.1	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-3.1
JA58750-3.1.1	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-3.1
JA58750-3.1.1	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-3.1.1	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-3.1.1	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-3.1.1	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-3.1.1	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-3.1.1	Extract Freezer		12/06/10 09:00	Disposed
JA58750-3.1.2	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-3.1
JA58750-3.1.2	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-3.1
JA58750-3.1.2	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-3.1.2	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-3.1.2	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-3.1.2	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-3.1.2	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-3.1.2	Extract Freezer		12/06/10 09:00	Disposed
JA58750-3.1.3	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-3.1
JA58750-3.2	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-3.2	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-3.2	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-3.2	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-3.2	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-3.2	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-3.2	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-3.2	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-3.2	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-3.2	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-3.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-3.2	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-3.2	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-3.2	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-3.2	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-3.2	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-3.2	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-3.2	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-3.2	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-3.2	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-3.2	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer

Accutest Internal Chain of Custody

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-3.2	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-3.2	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-3.2	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-3.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-3.2.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-3.2
JA58750-3.2.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-3.2
JA58750-3.2.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-3.2.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:33	Retrieve from Storage
JA58750-3.2.1	Toya Dagena Raffington	GCWW	10/21/10 16:33	Load on Instrument
JA58750-3.2.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-3.2.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-3.2.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-3.2.2	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-3.2
JA58750-3.2.2	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-3.2
JA58750-3.2.2	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-3.2.2	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-3.2.2	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-3.2.2	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-3.2.2	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-3.2.2	Extract Freezer		12/02/10 09:00	Disposed
JA58750-3.2.3	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-3.2
JA58750-3.2.3	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-3.2
JA58750-3.2.3	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-3.2.3	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-3.2.3	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-3.2.3	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-3.2.4	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-3.2
JA58750-3.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-3.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-3.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-3.6	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-3.6	Kristi Schollenberger	GCMSSH	10/22/10 18:19	Load on Instrument
JA58750-3.6	GCMSSH	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-3.6	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-3.8	Secured Storage	Adam Scott	10/15/10 06:43	Retrieve from Storage

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Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-3.8	Adam Scott	Nirali Patel	10/15/10 08:12	Custody Transfer
JA58750-3.8	Nirali Patel	Secured Storage	10/15/10 10:24	Return to Storage
JA58750-3.10	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-3.10	Juntae Park	GCMSX	10/23/10 17:35	Load on Instrument
JA58750-3.10	GCMSX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-3.10	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-4.1	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-4.1	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-4.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-4.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-4.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-4.1	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-4.1	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-4.1	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-4.1	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-4.1	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-4.1	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-4.1	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-4.1	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-4.1	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-4.1	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-4.1	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-4.1	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-4.1	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-4.1	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-4.1	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-4.1	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-4.1	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-4.1	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-4.1	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-4.1	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-4.1	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-4.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-4.1.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-4.1
JA58750-4.1.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-4.1
JA58750-4.1.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-4.1.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:33	Retrieve from Storage
JA58750-4.1.1	Toya Dagena Raffington	GCWW	10/21/10 16:33	Load on Instrument
JA58750-4.1.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-4.1.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-4.1.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-4.1.2	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-4.1
JA58750-4.1.2	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-4.1
JA58750-4.1.2	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-4.1.2	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-4.1.2	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-4.1.2	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-4.1.2	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-4.1.2	Extract Freezer		12/02/10 09:00	Disposed
JA58750-4.1.3	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-4.1
JA58750-4.1.3	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-4.1
JA58750-4.1.3	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-4.1.3	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-4.1.3	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-4.1.3	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-4.1.3	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-4.1.3	Extract Freezer		12/06/10 09:00	Disposed
JA58750-4.1.4	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-4.1
JA58750-4.1.4	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-4.1
JA58750-4.1.4	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-4.1.4	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-4.1.4	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-4.1.4	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-4.1.4	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-4.1.4	Extract Freezer		12/06/10 09:00	Disposed
JA58750-4.1.5	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-4.1
JA58750-4.1.6	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-4.1
JA58750-4.1.6	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-4.1
JA58750-4.1.6	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-4.1.6	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-4.1.6	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-4.1.6	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-4.1.7	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-4.1
JA58750-4.2	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-4.2	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-4.2	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				

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Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-4.2	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-4.2	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-4.2	Shirley Grzybowski	Barbara Clark	10/22/10 12:51	Custody Transfer
JA58750-4.2	Barbara Clark	Secured Storage	10/22/10 15:22	Return to Storage
JA58750-4.2	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-4.2	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-4.2	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-4.2	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-4.2	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-4.2	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-4.2	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-4.2	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-4.2	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-4.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-4.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-4.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-4.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-4.7	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-4.7	Kristi Schollenberger	GCMSh	10/22/10 18:19	Load on Instrument
JA58750-4.7	GCMSh	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-4.7	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-4.8	Secured Storage	Adam Scott	10/15/10 06:43	Retrieve from Storage
JA58750-4.8	Adam Scott	Nirali Patel	10/15/10 08:12	Custody Transfer
JA58750-4.8	Nirali Patel	Secured Storage	10/15/10 10:24	Return to Storage
JA58750-4.10	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-4.10	Juntae Park	GCMSh	10/23/10 17:35	Load on Instrument
JA58750-4.10	GCMSh	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-4.10	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-5.1	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-5.1	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-5.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-5.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-5.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-5.1	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-5.1	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-5.1	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-5.1	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage

Accutest Internal Chain of Custody

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-5.1	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-5.1	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-5.1	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-5.1	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-5.1.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-5.1
JA58750-5.1.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-5.1
JA58750-5.1.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-5.1.1	Extract Storage	Toya Dagena Raffington	10/19/10 10:52	Retrieve from Storage
JA58750-5.1.1	Toya Dagena Raffington	GCWW	10/19/10 10:52	Load on Instrument
JA58750-5.1.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-5.1.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-5.1.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-5.1.2	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-5.1
JA58750-5.1.2	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-5.1
JA58750-5.1.2	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-5.1.2	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-5.1.2	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-5.1.2	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-5.1.2	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-5.1.2	Extract Freezer		12/02/10 09:00	Disposed
JA58750-5.1.3	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-5.1
JA58750-5.1.3	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-5.1
JA58750-5.1.3	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-5.1.3	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-5.1.3	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-5.1.3	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-5.1.3	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-5.1.3	Extract Freezer		12/06/10 09:00	Disposed
JA58750-5.1.4	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-5.1
JA58750-5.1.4	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-5.1
JA58750-5.1.4	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-5.1.4	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-5.1.4	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-5.1.4	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-5.1.4	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-5.1.4	Extract Freezer		12/06/10 09:00	Disposed
JA58750-5.1.5	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-5.1
JA58750-5.2	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage

Accutest Internal Chain of Custody

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Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-5.2	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-5.2	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-5.2	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-5.2	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-5.2	Shirley Grzybowski	Barbara Clark	10/22/10 12:51	Custody Transfer
JA58750-5.2	Barbara Clark	Secured Storage	10/22/10 15:22	Return to Storage
JA58750-5.2	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-5.2	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-5.2	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-5.2	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-5.2	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-5.2	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-5.2	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-5.2	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-5.2	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-5.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-5.2	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-5.2	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-5.2	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-5.2	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-5.2	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-5.2	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-5.2	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-5.2	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-5.2	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-5.2	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-5.2	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-5.2	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-5.2	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-5.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-5.2.1	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-5.2
JA58750-5.2.1	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-5.2
JA58750-5.2.1	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-5.2.1	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-5.2.1	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-5.2.1	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-5.2.2	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-5.2
JA58750-5.3	Nick Popow		10/14/10 15:57	Subcontract

Accutest Internal Chain of Custody

Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-5.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-5.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-5.7	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-5.7	Kristi Schollenberger	GCMSSH	10/22/10 18:19	Load on Instrument
JA58750-5.7	GCMSSH	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-5.7	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-5.10	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-5.10	Juntae Park	GCMSSX	10/23/10 17:35	Load on Instrument
JA58750-5.10	GCMSSX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-5.10	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-6.1	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-6.1	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-6.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-6.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-6.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-6.1	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-6.1	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-6.1	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-6.1	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-6.1	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-6.1	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-6.1	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-6.1	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-6.1	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-6.1	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-6.1	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-6.1	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-6.1	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-6.1	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-6.1	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-6.1	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-6.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-6.1.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-6.1
JA58750-6.1.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-6.1
JA58750-6.1.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-6.1.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:33	Retrieve from Storage
JA58750-6.1.1	Toya Dagena Raffington	GCWW	10/21/10 16:33	Load on Instrument
JA58750-6.1.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-6.1.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-6.1.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-6.1.2	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-6.1
JA58750-6.1.2	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-6.1
JA58750-6.1.2	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-6.1.2	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-6.1.2	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-6.1.2	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-6.1.2	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-6.1.2	Extract Freezer		12/02/10 09:00	Disposed
JA58750-6.1.3	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-6.1
JA58750-6.1.3	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-6.1
JA58750-6.1.3	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-6.1.3	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-6.1.3	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-6.1.3	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-6.1.4	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-6.1
JA58750-6.2	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-6.2	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-6.2	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-6.2	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-6.2	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-6.2	Shirley Grzybowski	Barbara Clark	10/22/10 12:51	Custody Transfer
JA58750-6.2	Barbara Clark	Secured Storage	10/22/10 15:22	Return to Storage
JA58750-6.2	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-6.2	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-6.2	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-6.2	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-6.2	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-6.2	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-6.2	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-6.2	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-6.2	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-6.2	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-6.2	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-6.2	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-6.2	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-6.2	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-6.2	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample/Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-6.2.1	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-6.2
JA58750-6.2.1	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-6.2
JA58750-6.2.1	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-6.2.1	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-6.2.1	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-6.2.1	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-6.2.1	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-6.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58750-6.2.2	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-6.2
JA58750-6.2.2	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-6.2
JA58750-6.2.2	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-6.2.2	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-6.2.2	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-6.2.2	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-6.2.2	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-6.2.2	Extract Freezer		12/06/10 09:00	Disposed
JA58750-6.2.3	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-6.2
JA58750-6.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-6.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-6.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-6.7	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-6.7	Kristi Schollenberger	GCMSh	10/22/10 18:19	Load on Instrument
JA58750-6.7	GCMSh	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-6.7	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-6.8	Nick Popow		10/18/10 15:23	Subcontract
JA58750-6.10	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-6.10	Juntae Park	GCMSX	10/23/10 17:35	Load on Instrument
JA58750-6.10	GCMSX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-6.10	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-7.1	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-7.1	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-7.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-7.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-7.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage

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Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-7.1	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-7.1	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-7.1	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-7.1	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-7.1	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-7.1	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-7.1	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-7.1	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-7.1	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-7.1	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-7.1	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-7.1	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-7.1	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-7.1	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-7.1	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-7.1	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-7.1	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-7.1	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-7.1	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-7.1.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-7.1
JA58750-7.1.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-7.1
JA58750-7.1.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-7.1.1	Extract Storage	Toya Dagena Raffington	10/19/10 10:52	Retrieve from Storage
JA58750-7.1.1	Toya Dagena Raffington	GCWW	10/19/10 10:52	Load on Instrument
JA58750-7.1.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-7.1.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-7.1.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-7.1.2	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-7.1
JA58750-7.1.2	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-7.1
JA58750-7.1.2	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-7.1.2	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-7.1.2	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-7.1.2	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-7.1.2	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-7.1.2	Extract Freezer		12/02/10 09:00	Disposed
JA58750-7.1.3	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-7.1
JA58750-7.1.3	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-7.1
JA58750-7.1.3	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-7.1.3	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-7.1.3	Owen McKenna	GCIG	11/01/10 17:26	Load on Instrument

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-7.1.3	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-7.1.3	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-7.1.3	Extract Freezer		12/06/10 09:00	Disposed
JA58750-7.1.4	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-7.1
JA58750-7.1.4	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-7.1
JA58750-7.1.4	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-7.1.4	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-7.1.4	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-7.1.4	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-7.1.4	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-7.1.4	Extract Freezer		12/06/10 09:00	Disposed
JA58750-7.1.5	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-7.1
JA58750-7.1.6	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-7.1
JA58750-7.1.6	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-7.1
JA58750-7.1.6	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-7.1.6	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-7.1.6	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-7.1.6	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-7.2	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-7.2	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-7.2	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-7.2	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-7.2	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-7.2	Shirley Grzybowski	Barbara Clark	10/22/10 12:51	Custody Transfer
JA58750-7.2	Barbara Clark	Secured Storage	10/22/10 15:22	Return to Storage
JA58750-7.2	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-7.2	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-7.2	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-7.2	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-7.2	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-7.2	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-7.2	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-7.2	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-7.2	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-7.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-7.2	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-7.2	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-7.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-7.2.1	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-7.2
JA58750-7.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-7.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-7.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-7.7	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-7.7	Kristi Schollenberger	GCMSSH	10/22/10 18:19	Load on Instrument
JA58750-7.7	GCMSSH	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-7.7	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-7.10	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-7.10	Juntae Park	GCMSSH	10/23/10 17:35	Load on Instrument
JA58750-7.10	GCMSSH	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-7.10	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-8.1	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-8.1	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-8.1	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-8.1	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-8.1	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-8.1	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-8.1	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-8.1	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-8.1	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-8.1	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-8.1	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-8.1	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-8.1	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-8.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-8.1.1	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-8.1
JA58750-8.1.1	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-8.1
JA58750-8.1.1	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-8.1.1	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-8.1.1	Nina Pandya	GCMSS2P	11/02/10 10:32	Load on Instrument
JA58750-8.1.1	GCMSS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-8.1.1	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-8.1.1	Extract Freezer		12/02/10 09:00	Disposed
JA58750-8.1.2	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-8.1
JA58750-8.1.2	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-8.1

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-8.1.2	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-8.1.2	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-8.1.2	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-8.1.2	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-8.1.2	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-8.1.2	Extract Freezer		12/06/10 09:00	Disposed
JA58750-8.1.3	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-8.1
JA58750-8.1.3	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-8.1
JA58750-8.1.3	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-8.1.3	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-8.1.3	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-8.1.3	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-8.1.3	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-8.1.3	Extract Freezer		12/06/10 09:00	Disposed
JA58750-8.1.4	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-8.1
JA58750-8.1.5	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-8.1
JA58750-8.2	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-8.2	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-8.2	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-8.2	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-8.2	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-8.2	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-8.2	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-8.2	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-8.2	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-8.2	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-8.2	Shirley Grzybowski	Barbara Clark	10/22/10 12:51	Custody Transfer
JA58750-8.2	Barbara Clark	Secured Storage	10/22/10 15:22	Return to Storage
JA58750-8.2	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-8.2	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-8.2	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-8.2	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-8.2	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-8.2	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-8.2	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-8.2	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-8.2	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-8.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-8.2	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-8.2	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-8.2	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-8.2	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-8.2	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-8.2	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-8.2	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-8.2	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-8.2.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-8.2
JA58750-8.2.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-8.2
JA58750-8.2.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-8.2.1	Extract Storage	Toya Dagena Raffington	10/19/10 10:52	Retrieve from Storage
JA58750-8.2.1	Toya Dagena Raffington	GCWW	10/19/10 10:52	Load on Instrument
JA58750-8.2.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-8.2.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-8.2.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-8.2.2	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-8.2
JA58750-8.2.2	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-8.2
JA58750-8.2.2	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-8.2.2	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-8.2.2	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-8.2.2	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-8.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-8.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-8.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-8.7	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-8.7	Kristi Schollenberger	GCMSh	10/22/10 18:19	Load on Instrument
JA58750-8.7	GCMSh	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-8.7	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-8.8	Nick Popow		10/18/10 15:23	Subcontract
JA58750-8.10	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-8.10	Juntae Park	GCMSh	10/23/10 17:35	Load on Instrument
JA58750-8.10	GCMSh	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-8.10	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-9.1	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-9.1	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-9.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-9.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-9.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-9.1	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-9.1	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-9.1	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-9.1	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-9.1	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-9.1	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-9.1	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-9.1	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-9.1.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-9.1
JA58750-9.1.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-9.1
JA58750-9.1.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-9.1.1	Extract Storage	Toya Dagena Raffington	10/20/10 12:34	Retrieve from Storage
JA58750-9.1.1	Toya Dagena Raffington	GCWW	10/20/10 12:34	Load on Instrument
JA58750-9.1.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-9.1.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-9.1.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-9.1.2	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-9.1
JA58750-9.1.2	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-9.1
JA58750-9.1.2	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-9.1.2	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-9.1.2	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-9.1.2	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-9.1.2	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-9.1.2	Extract Freezer		12/02/10 09:00	Disposed
JA58750-9.1.3	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-9.1
JA58750-9.1.3	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-9.1
JA58750-9.1.3	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-9.1.3	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-9.1.3	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-9.1.3	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-9.1.3	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-9.1.3	Extract Freezer		12/06/10 09:00	Disposed
JA58750-9.1.4	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-9.1
JA58750-9.1.4	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-9.1
JA58750-9.1.4	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-9.1.4	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-9.1.4	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-9.1.4	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-9.1.4	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-9.1.4	Extract Freezer		12/06/10 09:00	Disposed
JA58750-9.2	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-9.2	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-9.2	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-9.2	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-9.2	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-9.2	Shirley Grzybowski	Barbara Clark	10/22/10 12:51	Custody Transfer
JA58750-9.2	Barbara Clark	Secured Storage	10/22/10 15:22	Return to Storage
JA58750-9.2	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-9.2	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-9.2	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-9.2	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-9.2	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-9.2	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-9.2	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-9.2	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-9.2	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-9.2	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-9.2	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-9.2	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-9.2	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-9.2	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-9.2	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-9.2	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-9.2	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-9.2	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-9.2	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-9.2	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-9.2	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-9.2	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-9.2	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-9.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-9.2.1	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-9.2
JA58750-9.2.2	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-9.2
JA58750-9.2.2	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-9.2
JA58750-9.2.2	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage

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Job Number: JA58750A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/13/10

Sample/Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-9.2.2	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-9.2.2	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-9.2.2	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-9.2.3	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-9.2
JA58750-9.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-9.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-9.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-9.7	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-9.7	Kristi Schollenberger	GCMSh	10/22/10 18:19	Load on Instrument
JA58750-9.7	GCMSh	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-9.7	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-9.8	Nick Popow		10/18/10 15:23	Subcontract
JA58750-9.10	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-9.10	Juntae Park	GCMSh	10/23/10 17:35	Load on Instrument
JA58750-9.10	GCMSh	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-9.10	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-10.1	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-10.1	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-10.1	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-10.1	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-10.1	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-10.1	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-10.1	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-10.1	Shirley Grzybowski	Barbara Clark	10/22/10 12:51	Custody Transfer
JA58750-10.1	Barbara Clark	Secured Storage	10/22/10 15:22	Return to Storage
JA58750-10.1	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-10.1	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-10.1	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-10.1	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-10.1	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-10.1	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-10.1	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-10.1	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-10.1	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-10.1	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-10.1	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-10.1	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-10.1.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-10.1
JA58750-10.1.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-10.1
JA58750-10.1.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-10.1.1	Extract Storage	Toya Dagena Raffington	10/19/10 10:52	Retrieve from Storage
JA58750-10.1.1	Toya Dagena Raffington	GCWW	10/19/10 10:52	Load on Instrument
JA58750-10.1.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-10.1.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-10.1.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-10.1.2	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-10.1
JA58750-10.1.2	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-10.1
JA58750-10.1.2	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-10.1.2	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-10.1.2	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-10.1.2	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-10.1.2	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-10.1.2	Extract Freezer		12/06/10 09:00	Disposed
JA58750-10.1.3	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-10.1
JA58750-10.1.3	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-10.1
JA58750-10.1.3	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-10.1.3	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-10.1.3	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-10.1.3	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-10.1.3	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-10.1.3	Extract Freezer		12/06/10 09:00	Disposed
JA58750-10.1.4	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-10.1
JA58750-10.2	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-10.2	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-10.2	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-10.2	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-10.2	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-10.2	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-10.2	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-10.2	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-10.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-10.2	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-10.2	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-10.2	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-10.2	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-10.2	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-10.2	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-10.2	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-10.2	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-10.2	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-10.2	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-10.2	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-10.2	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-10.2	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-10.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-10.2.1	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-10.2
JA58750-10.2.1	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-10.2
JA58750-10.2.1	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-10.2.1	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-10.2.1	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-10.2.1	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-10.2.1	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-10.2.1	Extract Freezer	Krutika Patel	11/03/10 13:36	Retrieve from Storage
JA58750-10.2.1	Krutika Patel	GCMS2P	11/03/10 13:36	Load on Instrument
JA58750-10.2.1	GCMS2P	Krutika Patel	11/04/10 12:51	Unload from Instrument
JA58750-10.2.1	Krutika Patel	Extract Freezer	11/04/10 12:51	Return to Storage
JA58750-10.2.1	Extract Freezer		12/02/10 09:00	Disposed
JA58750-10.2.2	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-10.2
JA58750-10.2.2	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-10.2
JA58750-10.2.2	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-10.2.2	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-10.2.2	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-10.2.2	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-10.2.3	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-10.2
JA58750-10.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-10.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-10.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-10.6	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-10.6	Kristi Schollenberger	GCMSSH	10/22/10 18:19	Load on Instrument
JA58750-10.6	GCMSSH	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-10.6	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-10.8	Nick Popow		10/18/10 15:23	Subcontract
JA58750-10.10	Secured Storage	Dong, Mei	10/25/10 14:57	Retrieve from Storage
JA58750-10.10	Dong, Mei	GCMSX	10/25/10 14:57	Load on Instrument
JA58750-10.10	GCMSX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-10.10	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-11.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-11.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-11.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-11.1	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-11.1	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-11.1	Shirley Grzybowski	Secured Storage	10/22/10 14:28	Return to Storage
JA58750-11.1	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-11.1	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-11.1	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-11.1	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-11.1	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-11.1	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-11.1	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-11.1	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-11.1	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-11.1	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-11.1.1	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-11.1
JA58750-11.1.2	Rie Iwasaki	GenChem Digestion	10/27/10 11:46	Digestate from JA58750-11.1
JA58750-11.1.3	Rie Iwasaki	GenChem Digestion	10/27/10 11:47	Digestate from JA58750-11.1
JA58750-11.2	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-11.2	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-11.2	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-11.2	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-11.2	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-11.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-11.2	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-11.2	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-11.2	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-11.2	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-11.2	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-11.2	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage

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Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-11.2	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-11.2	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-11.2	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-11.2	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-11.2	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-11.2	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-11.2	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-11.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-11.2	Secured Storage	Todd Shoemaker	12/02/10 08:07	Retrieve from Storage
JA58750-11.2	Todd Shoemaker	Sarvadaman Tripathi	12/02/10 08:33	Custody Transfer
JA58750-11.2	Sarvadaman Tripathi	Secured Storage	12/02/10 16:16	Return to Storage
JA58750-11.2.1	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-11.2
JA58750-11.2.1	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-11.2
JA58750-11.2.1	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-11.2.1	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-11.2.1	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-11.2.1	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-11.2.1	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-11.2.1	Extract Freezer		12/02/10 09:00	Disposed
JA58750-11.2.2	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-11.2
JA58750-11.2.2	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-11.2
JA58750-11.2.2	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-11.2.2	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-11.2.2	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-11.2.2	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-11.2.3	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-11.2
JA58750-11.2.4	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-11.2
JA58750-11.3	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-11.3	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-11.3	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-11.3	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-11.3	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-11.3	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-11.3	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-11.3	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-11.3	Shirley Grzybowski	Secured Storage	10/22/10 14:28	Return to Storage
JA58750-11.3	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-11.3	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-11.3	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-11.3	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-11.3	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-11.3	Shirley Grzybowski	Secured Storage	10/25/10 14:10	Return to Storage
JA58750-11.3	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-11.3	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-11.3	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-11.3	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-11.3	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-11.3.1	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-11.3
JA58750-11.3.1	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-11.3
JA58750-11.3.1	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-11.3.1	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-11.3.1	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-11.3.1	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-11.3.1	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-11.3.1	Extract Freezer		12/06/10 09:00	Disposed
JA58750-11.3.2	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-11.3
JA58750-11.3.2	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-11.3
JA58750-11.3.2	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-11.3.2	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-11.3.2	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-11.3.2	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-11.3.2	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-11.3.2	Extract Freezer		12/06/10 09:00	Disposed
JA58750-11.3.3	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-11.3
JA58750-11.4	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-11.4	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-11.4	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-11.4	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-11.4	Shirley Grzybowski	Secured Storage	10/22/10 14:28	Return to Storage
JA58750-11.4	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-11.4	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-11.4	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-11.4	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-11.4	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-11.4	Shirley Grzybowski	Secured Storage	10/25/10 14:10	Return to Storage
JA58750-11.4	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-11.4	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-11.4	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-11.4.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-11.4
JA58750-11.4.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-11.4
JA58750-11.4.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-11.4.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:33	Retrieve from Storage
JA58750-11.4.1	Toya Dagena Raffington	GCWW	10/21/10 16:33	Load on Instrument
JA58750-11.4.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-11.4.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-11.4.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-11.7	Nick Popow		10/14/10 15:57	Subcontract
JA58750-11.8	Nick Popow		10/14/10 15:57	Subcontract
JA58750-11.9	Nick Popow		10/14/10 15:57	Subcontract
JA58750-11.10	Nick Popow		10/14/10 15:57	Subcontract
JA58750-11.11	Nick Popow		10/14/10 15:57	Subcontract
JA58750-11.13	Nick Popow		10/14/10 15:57	Subcontract
JA58750-11.14	Nick Popow		10/14/10 15:57	Subcontract
JA58750-11.15	Nick Popow		10/14/10 15:57	Subcontract
JA58750-11.18	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-11.18	Kristi Schollenberger	GCMSH	10/22/10 18:19	Load on Instrument
JA58750-11.18	GCMSH	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-11.18	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-11.22	Secured Storage	Adam Scott	11/22/10 06:51	Retrieve from Storage
JA58750-11.22	Adam Scott	Shirley Grzybowski	11/22/10 07:18	Custody Transfer
JA58750-11.22	Shirley Grzybowski	Secured Storage	11/22/10 15:10	Return to Storage
JA58750-11.28	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-11.28	Juntae Park	GCMSX	10/23/10 17:35	Load on Instrument
JA58750-11.28	GCMSX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-11.28	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-11.29	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-11.29	Juntae Park	GCMSX	10/23/10 17:35	Load on Instrument
JA58750-11.29	GCMSX	Juntae Park	10/26/10 11:53	Unload from Instrument

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-11.29	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-11.30	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-11.30	Juntae Park	GCMSX	10/23/10 17:35	Load on Instrument
JA58750-11.30	GCMSX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-11.30	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-12.1	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-12.1	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-12.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-12.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-12.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-12.1	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-12.1	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-12.1	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-12.1	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-12.1	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-12.1	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-12.1	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-12.1	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-12.1.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-12.1
JA58750-12.1.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-12.1
JA58750-12.1.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-12.1.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:33	Retrieve from Storage
JA58750-12.1.1	Toya Dagena Raffington	GCWW	10/21/10 16:33	Load on Instrument
JA58750-12.1.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-12.1.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-12.1.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-12.1.2	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-12.1
JA58750-12.1.2	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-12.1
JA58750-12.1.2	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-12.1.2	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-12.1.2	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-12.1.2	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-12.1.2	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-12.1.2	Extract Freezer	Krutika Patel	11/03/10 13:36	Retrieve from Storage
JA58750-12.1.2	Krutika Patel	GCMS2P	11/03/10 13:36	Load on Instrument
JA58750-12.1.2	GCMS2P	Krutika Patel	11/04/10 12:51	Unload from Instrument
JA58750-12.1.2	Krutika Patel	Extract Freezer	11/04/10 12:51	Return to Storage
JA58750-12.1.2	Extract Freezer		12/02/10 09:00	Disposed
JA58750-12.1.3	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-12.1

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-12.1.3	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-12.1
JA58750-12.1.3	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-12.1.3	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-12.1.3	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-12.1.3	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-12.1.3	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-12.1.3	Extract Freezer		12/06/10 09:00	Disposed
JA58750-12.1.4	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-12.1
JA58750-12.1.4	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-12.1
JA58750-12.1.4	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-12.1.4	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-12.1.4	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-12.1.4	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-12.1.4	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-12.1.4	Extract Freezer		12/06/10 09:00	Disposed
JA58750-12.1.5	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-12.1
JA58750-12.2	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-12.2	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-12.2	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-12.2	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-12.2	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-12.2	Shirley Grzybowski	Secured Storage	10/22/10 14:28	Return to Storage
JA58750-12.2	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-12.2	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-12.2	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-12.2	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-12.2	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-12.2	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-12.2	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-12.2	Secured Storage	Zethan Reyes	10/27/10 10:20	Retrieve from Storage
JA58750-12.2	Zethan Reyes	Melissa Smith	10/27/10 10:22	Custody Transfer
JA58750-12.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-12.2	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-12.2	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-12.2	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-12.2	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-12.2	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-12.2	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-12.2	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer

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Job Number: JA58750A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-12.2	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-12.2	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-12.2	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-12.2	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-12.2	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-12.2	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-12.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-12.2.1	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-12.2
JA58750-12.2.1	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-12.2
JA58750-12.2.1	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-12.2.1	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-12.2.1	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-12.2.1	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-12.2.2	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-12.2
JA58750-12.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-12.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-12.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-12.7	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-12.7	Kristi Schollenberger	GCMSh	10/22/10 18:19	Load on Instrument
JA58750-12.7	GCMSh	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-12.7	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-12.10	Secured Storage	Dong, Mei	10/25/10 14:57	Retrieve from Storage
JA58750-12.10	Dong, Mei	GCMSh	10/25/10 14:57	Load on Instrument
JA58750-12.10	GCMSh	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-12.10	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-13.1	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-13.1	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-13.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-13.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-13.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-13.1	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-13.1	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-13.1	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-13.1	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-13.1	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-13.1	Shirley Grzybowski	Secured Storage	10/22/10 14:28	Return to Storage
JA58750-13.1	Secured Storage	Steven Kim	10/22/10 14:55	Retrieve from Storage
JA58750-13.1	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-13.1	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-13.1	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-13.1	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-13.1	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-13.1	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-13.1	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-13.1	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-13.1	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-13.1	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-13.1	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-13.1	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-13.1	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-13.1	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-13.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-13.1.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-13.1
JA58750-13.1.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-13.1
JA58750-13.1.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-13.1.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:33	Retrieve from Storage
JA58750-13.1.1	Toya Dagena Raffington	GCWW	10/21/10 16:33	Load on Instrument
JA58750-13.1.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-13.1.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-13.1.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-13.1.2	Steven Kim	Organics Prep	10/22/10 20:17	Extract from JA58750-13.1
JA58750-13.1.2	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-13.1
JA58750-13.1.2	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-13.1.2	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-13.1.2	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-13.1.2	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-13.1.2	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-13.1.2	Extract Freezer		12/02/10 09:00	Disposed
JA58750-13.1.3	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-13.1
JA58750-13.1.3	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-13.1
JA58750-13.1.3	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-13.1.3	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-13.1.3	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-13.1.3	Metals Digestate Storage		01/10/11 09:00	Disposed

Accutest Internal Chain of Custody

Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-13.1.4	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-13.1
JA58750-13.2	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-13.2	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-13.2	Shirley Grzybowski	Secured Storage	10/22/10 14:28	Return to Storage
JA58750-13.2	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-13.2	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-13.2	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-13.2	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-13.2	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-13.2	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-13.2	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-13.2	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-13.2	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-13.2	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-13.2	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-13.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-13.2.1	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-13.2
JA58750-13.2.1	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-13.2
JA58750-13.2.1	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-13.2.1	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-13.2.1	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-13.2.1	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-13.2.1	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-13.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58750-13.2.2	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-13.2
JA58750-13.2.2	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-13.2
JA58750-13.2.2	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-13.2.2	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-13.2.2	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-13.2.2	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-13.2.2	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-13.2.2	Extract Freezer		12/06/10 09:00	Disposed
JA58750-13.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-13.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-13.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-13.7	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-13.7	Kristi Schollenberger	GCMSh	10/22/10 18:19	Load on Instrument

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-13.7	GCMSh	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-13.7	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-13.8	Secured Storage	Rie Iwasaki	10/27/10 11:46	Retrieve from Storage
JA58750-13.8	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-13.8.1	Rie Iwasaki	GenChem Digestion	10/27/10 11:46	Digestate from JA58750-13.8
JA58750-13.10	Secured Storage	Dong, Mei	10/25/10 14:57	Retrieve from Storage
JA58750-13.10	Dong, Mei	GCMSX	10/25/10 14:57	Load on Instrument
JA58750-13.10	GCMSX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-13.10	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-13.11	Secured Storage	Juntae Park	10/26/10 11:59	Retrieve from Storage
JA58750-13.11	Juntae Park	GCMSX	10/26/10 11:59	Load on Instrument
JA58750-13.11	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58750-13.11	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58750-14.1	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-14.1	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-14.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-14.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-14.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-14.1	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-14.1	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-14.1	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-14.1	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-14.1	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-14.1	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-14.1	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-14.1	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-14.1	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-14.1	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-14.1	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-14.1	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-14.1	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-14.1	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-14.1	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-14.1	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-14.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-14.1.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-14.1
JA58750-14.1.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-14.1

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Job Number: JA58750A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-14.1.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-14.1.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:33	Retrieve from Storage
JA58750-14.1.1	Toya Dagena Raffington	GCWW	10/21/10 16:33	Load on Instrument
JA58750-14.1.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-14.1.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-14.1.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-14.1.2	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-14.1
JA58750-14.1.2	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-14.1
JA58750-14.1.2	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-14.1.2	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-14.1.2	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-14.1.2	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-14.1.2	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-14.1.2	Extract Freezer		12/02/10 09:00	Disposed
JA58750-14.1.3	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-14.1
JA58750-14.1.3	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-14.1
JA58750-14.1.3	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-14.1.3	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-14.1.3	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-14.1.3	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-14.1.4	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-14.1
JA58750-14.2	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-14.2	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-14.2	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-14.2	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-14.2	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-14.2	Shirley Grzybowski	Secured Storage	10/22/10 14:28	Return to Storage
JA58750-14.2	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-14.2	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-14.2	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-14.2	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-14.2	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-14.2	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-14.2	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-14.2	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-14.2	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-14.2	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-14.2	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-14.2	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage

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Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-14.2	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-14.2	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-14.2	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-14.2	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-14.2	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-14.2	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-14.2.1	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-14.2
JA58750-14.2.1	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-14.2
JA58750-14.2.1	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-14.2.1	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-14.2.1	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-14.2.1	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-14.2.1	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-14.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58750-14.2.2	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-14.2
JA58750-14.2.2	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-14.2
JA58750-14.2.2	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-14.2.2	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-14.2.2	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-14.2.2	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-14.2.2	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-14.2.2	Extract Freezer		12/06/10 09:00	Disposed
JA58750-14.2.3	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-14.2
JA58750-14.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-14.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-14.6	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-14.6	Kristi Schollenberger	GCMSh	10/22/10 18:19	Load on Instrument
JA58750-14.6	GCMSh	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-14.6	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-14.10	Secured Storage	Jianhua Li	10/21/10 16:35	Retrieve from Storage
JA58750-14.10	Jianhua Li	GCMSV	10/21/10 16:35	Load on Instrument
JA58750-14.10	GCMSV	Jianhua Li	10/22/10 10:25	Unload from Instrument
JA58750-14.10	Jianhua Li	Secured Storage	10/22/10 10:25	Return to Storage
JA58750-14.10	Secured Storage	Dong, Mei	10/25/10 14:57	Retrieve from Storage
JA58750-14.10	Dong, Mei	GCMSX	10/25/10 14:57	Load on Instrument
JA58750-14.10	GCMSX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-14.10	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage

Accutest Internal Chain of Custody

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-15.1	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-15.1	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-15.1	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-15.1	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-15.1	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-15.1	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-15.1	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-15.1	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-15.1	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-15.1	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-15.1	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-15.1	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-15.1	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-15.1	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-15.1.1	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-15.1
JA58750-15.1.1	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-15.1
JA58750-15.1.1	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-15.1.1	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-15.1.1	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-15.1.1	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-15.1.1	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-15.1.1	Extract Freezer		12/02/10 09:00	Disposed
JA58750-15.1.2	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-15.1
JA58750-15.1.2	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-15.1
JA58750-15.1.2	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-15.1.2	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-15.1.2	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-15.1.2	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-15.2	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-15.2	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-15.2	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-15.2	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-15.2	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-15.2	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-15.2	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-15.2	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-15.2	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-15.2	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-15.2	Shirley Grzybowski	Secured Storage	10/22/10 14:28	Return to Storage
JA58750-15.2	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-15.2	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-15.2	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-15.2	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-15.2	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-15.2	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-15.2	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-15.2	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-15.2	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-15.2	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-15.2	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-15.2	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-15.2	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-15.2	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-15.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-15.2.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-15.2
JA58750-15.2.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-15.2
JA58750-15.2.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-15.2.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:33	Retrieve from Storage
JA58750-15.2.1	Toya Dagena Raffington	GCWW	10/21/10 16:33	Load on Instrument
JA58750-15.2.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-15.2.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-15.2.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-15.2.2	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-15.2
JA58750-15.2.2	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-15.2
JA58750-15.2.2	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-15.2.2	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-15.2.2	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-15.2.2	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-15.2.2	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-15.2.2	Extract Freezer		12/06/10 09:00	Disposed
JA58750-15.2.3	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-15.2
JA58750-15.2.3	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-15.2
JA58750-15.2.3	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-15.2.3	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-15.2.3	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-15.2.3	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-15.2.3	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-15.2.3	Extract Freezer		12/06/10 09:00	Disposed

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-15.2.4	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-15.2
JA58750-15.2.5	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-15.2
JA58750-15.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-15.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-15.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-15.7	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-15.7	Kristi Schollenberger	GCMSH	10/22/10 18:19	Load on Instrument
JA58750-15.7	GCMSH	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-15.7	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-15.10	Secured Storage	Jianhua Li	10/21/10 16:35	Retrieve from Storage
JA58750-15.10	Jianhua Li	GCMSV	10/21/10 16:35	Load on Instrument
JA58750-15.10	GCMSV	Jianhua Li	10/22/10 10:25	Unload from Instrument
JA58750-15.10	Jianhua Li	Secured Storage	10/22/10 10:25	Return to Storage
JA58750-15.11	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-15.11	Juntae Park	GCMSX	10/23/10 17:35	Load on Instrument
JA58750-15.11	GCMSX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-15.11	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-16.1	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-16.1	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-16.1	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-16.1	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-16.1	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-16.1	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-16.1	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-16.1	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-16.1	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-16.1	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-16.1	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-16.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-16.1.1	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-16.1
JA58750-16.1.1	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-16.1
JA58750-16.1.1	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-16.1.1	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-16.1.1	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-16.1.1	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument

Accutest Internal Chain of Custody

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Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-16.1.1	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-16.1.1	Extract Freezer		12/02/10 09:00	Disposed
JA58750-16.1.2	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-16.1
JA58750-16.1.3	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-16.1
JA58750-16.2	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-16.2	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-16.2	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-16.2	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-16.2	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-16.2	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-16.2	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-16.2	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-16.2	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-16.2	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-16.2	Shirley Grzybowski	Secured Storage	10/22/10 14:28	Return to Storage
JA58750-16.2	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-16.2	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-16.2	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-16.2	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-16.2	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-16.2	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-16.2	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-16.2	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-16.2	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-16.2	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-16.2	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-16.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-16.2	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-16.2	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-16.2	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-16.2	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-16.2	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-16.2	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-16.2	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-16.2	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-16.2.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-16.2
JA58750-16.2.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-16.2
JA58750-16.2.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-16.2.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:33	Retrieve from Storage
JA58750-16.2.1	Toya Dagena Raffington	GCWW	10/21/10 16:33	Load on Instrument
JA58750-16.2.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-16.2.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-16.2.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-16.2.2	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-16.2
JA58750-16.2.2	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-16.2
JA58750-16.2.2	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-16.2.2	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-16.2.2	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-16.2.2	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-16.2.2	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-16.2.2	Extract Freezer		12/06/10 09:00	Disposed
JA58750-16.2.3	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-16.2
JA58750-16.2.3	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-16.2
JA58750-16.2.3	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-16.2.3	Extract Storage	Toya Dagena Raffington	10/26/10 16:21	Retrieve from Storage
JA58750-16.2.3	Toya Dagena Raffington	GC3G	10/26/10 16:21	Load on Instrument
JA58750-16.2.3	GC3G	Toya Dagena Raffington	10/27/10 09:04	Unload from Instrument
JA58750-16.2.3	Toya Dagena Raffington	Extract Freezer	10/27/10 09:04	Return to Storage
JA58750-16.2.3	Extract Freezer		12/06/10 09:00	Disposed
JA58750-16.2.4	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-16.2
JA58750-16.2.4	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-16.2
JA58750-16.2.4	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-16.2.4	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-16.2.4	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-16.2.4	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-16.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-16.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-16.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-16.7	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-16.7	Kristi Schollenberger	GCMSh	10/22/10 18:19	Load on Instrument
JA58750-16.7	GCMSh	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-16.7	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-16.10	Secured Storage	Jianhua Li	10/21/10 16:35	Retrieve from Storage
JA58750-16.10	Jianhua Li	GCMSV	10/21/10 16:35	Load on Instrument

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Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-16.10	GCMSV	Jianhua Li	10/22/10 10:25	Unload from Instrument
JA58750-16.10	Jianhua Li	Secured Storage	10/22/10 10:25	Return to Storage
JA58750-16.11	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-16.11	Juntae Park	GCMSX	10/23/10 17:35	Load on Instrument
JA58750-16.11	GCMSX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-16.11	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-17.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-17.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-17.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-17.1	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-17.1	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-17.1	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-17.1	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-17.1	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-17.1	Shirley Grzybowski	Secured Storage	10/22/10 14:28	Return to Storage
JA58750-17.1	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-17.1	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-17.1	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-17.1	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-17.1	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-17.1	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-17.1	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-17.1	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-17.1	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-17.1	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-17.1	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-17.1	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-17.1	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage
JA58750-17.1	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-17.1	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-17.1	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-17.1	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-17.1	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-17.1	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-17.1	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-17.1.1	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-17.1
JA58750-17.1.1	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-17.1
JA58750-17.1.1	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-17.1.1	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage

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Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-17.1.1	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-17.1.1	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-17.1.1	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-17.1.1	Extract Freezer		12/06/10 09:00	Disposed
JA58750-17.1.2	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-17.1
JA58750-17.1.2	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-17.1
JA58750-17.1.2	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-17.1.2	Extract Storage	Toya Dagena Raffington	10/27/10 15:03	Retrieve from Storage
JA58750-17.1.2	Toya Dagena Raffington	GC3G	10/27/10 15:03	Load on Instrument
JA58750-17.1.2	GC3G	Toya Dagena Raffington	10/29/10 10:17	Unload from Instrument
JA58750-17.1.2	Toya Dagena Raffington	Extract Freezer	10/29/10 10:17	Return to Storage
JA58750-17.1.2	Extract Freezer		12/06/10 09:00	Disposed
JA58750-17.1.3	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-17.1
JA58750-17.1.4	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-17.1
JA58750-17.1.4	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-17.1
JA58750-17.1.4	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-17.1.4	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-17.1.4	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-17.1.4	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58750-17.2	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-17.2	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-17.2	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-17.2	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-17.2	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-17.2	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-17.2	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-17.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-17.2	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-17.2	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-17.2	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-17.2	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-17.2	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-17.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-17.2.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-17.2
JA58750-17.2.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-17.2
JA58750-17.2.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-17.2.1	Extract Storage	Toya Dagena Raffington	10/19/10 10:52	Retrieve from Storage
JA58750-17.2.1	Toya Dagena Raffington	GCWW	10/19/10 10:52	Load on Instrument
JA58750-17.2.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-17.2.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-17.2.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-17.2.2	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-17.2
JA58750-17.2.2	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-17.2
JA58750-17.2.2	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-17.2.2	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-17.2.2	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-17.2.2	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-17.2.2	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-17.2.2	Extract Freezer		12/02/10 09:00	Disposed
JA58750-17.2.3	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-17.2
JA58750-17.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-17.4	Nick Popow		10/14/10 15:57	Subcontract
JA58750-17.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-17.6	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-17.6	Kristi Schollenberger	GCMSH	10/22/10 18:19	Load on Instrument
JA58750-17.6	GCMSH	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-17.6	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-17.10	Secured Storage	Jianhua Li	10/21/10 16:35	Retrieve from Storage
JA58750-17.10	Jianhua Li	GCMSV	10/21/10 16:35	Load on Instrument
JA58750-17.10	GCMSV	Jianhua Li	10/22/10 10:25	Unload from Instrument
JA58750-17.10	Jianhua Li	Secured Storage	10/22/10 10:25	Return to Storage
JA58750-17.11	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-17.11	Juntae Park	GCMSX	10/23/10 17:35	Load on Instrument
JA58750-17.11	GCMSX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-17.11	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage
JA58750-18.1	Secured Storage	Zethan Reyes	10/22/10 11:24	Retrieve from Storage
JA58750-18.1	Zethan Reyes	Steven Kim	10/22/10 12:46	Custody Transfer
JA58750-18.1	Steven Kim	Secured Storage	10/22/10 21:15	Return to Storage
JA58750-18.1	Secured Storage	AnnMarie Luisi	10/26/10 06:28	Retrieve from Storage
JA58750-18.1	AnnMarie Luisi	Secured Storage	10/26/10 12:27	Return to Storage
JA58750-18.1	Secured Storage	Adam Scott	10/27/10 06:41	Retrieve from Storage
JA58750-18.1	Adam Scott	Rie Iwasaki	10/27/10 08:42	Custody Transfer
JA58750-18.1	Rie Iwasaki	Secured Storage	10/27/10 13:02	Return to Storage
JA58750-18.1	Secured Storage	Halden McCloskey	10/29/10 17:33	Retrieve from Storage

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-18.1	Halden McCloskey	Jay Sen	10/29/10 17:35	Custody Transfer
JA58750-18.1	Jay Sen	Secured Storage	10/29/10 20:36	Return to Storage
JA58750-18.1	Secured Storage	Todd Shoemaker	11/01/10 08:24	Retrieve from Storage
JA58750-18.1	Todd Shoemaker	Vidya Krishnan	11/01/10 08:25	Custody Transfer
JA58750-18.1	Secured Storage	Zethan Reyes	11/01/10 13:41	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JA58750-18.1	Zethan Reyes	Daniel Klawunn	11/01/10 13:42	Custody Transfer
JA58750-18.1	Daniel Klawunn	Secured Storage	11/01/10 15:52	Return to Storage
JA58750-18.1.1	Steven Kim	Organics Prep	10/22/10 12:52	Extract from JA58750-18.1
JA58750-18.1.1	Organics Prep	Steven Kim	10/22/10 23:38	Extract from JA58750-18.1
JA58750-18.1.1	Steven Kim	Extract Storage	10/22/10 23:38	Return to Storage
JA58750-18.1.1	Extract Storage	Nina Pandya	11/02/10 10:32	Retrieve from Storage
JA58750-18.1.1	Nina Pandya	GCMS2P	11/02/10 10:32	Load on Instrument
JA58750-18.1.1	GCMS2P	Krutika Patel	11/03/10 13:35	Unload from Instrument
JA58750-18.1.1	Krutika Patel	Extract Freezer	11/03/10 13:36	Return to Storage
JA58750-18.1.1	Extract Freezer		12/02/10 09:00	Disposed
JA58750-18.1.2	AnnMarie Luisi	Organics Prep	10/26/10 06:30	Extract from JA58750-18.1
JA58750-18.1.2	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-18.1
JA58750-18.1.2	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-18.1.2	Extract Storage	Owen McKenna	11/01/10 17:26	Retrieve from Storage
JA58750-18.1.2	Owen McKenna	GC1G	11/01/10 17:26	Load on Instrument
JA58750-18.1.2	GC1G	Owen McKenna	11/05/10 16:55	Unload from Instrument
JA58750-18.1.2	Owen McKenna	Extract Freezer	11/05/10 16:55	Return to Storage
JA58750-18.1.2	Extract Freezer		12/06/10 09:00	Disposed
JA58750-18.1.3	AnnMarie Luisi	Organics Prep	10/26/10 06:31	Extract from JA58750-18.1
JA58750-18.1.3	Organics Prep	AnnMarie Luisi	10/26/10 15:07	Extract from JA58750-18.1
JA58750-18.1.3	AnnMarie Luisi	Extract Storage	10/26/10 15:07	Return to Storage
JA58750-18.1.3	Extract Storage	Toya Dagena Raffington	10/27/10 15:03	Retrieve from Storage
JA58750-18.1.3	Toya Dagena Raffington	GC3G	10/27/10 15:03	Load on Instrument
JA58750-18.1.3	GC3G	Toya Dagena Raffington	10/29/10 10:17	Unload from Instrument
JA58750-18.1.3	Toya Dagena Raffington	Extract Freezer	10/29/10 10:17	Return to Storage
JA58750-18.1.3	Extract Freezer		12/06/10 09:00	Disposed
JA58750-18.1.4	Rie Iwasaki	GenChem Digestion	10/27/10 11:45	Digestate from JA58750-18.1
JA58750-18.1.5	Vidya Krishnan	Metals Digestion	11/01/10 12:03	Digestate from JA58750-18.1
JA58750-18.1.5	Metals Digestion	Vidya Krishnan	11/01/10 12:03	Digestate from JA58750-18.1
JA58750-18.1.5	Vidya Krishnan	Metals Digestate Storage	11/01/10 12:03	Return to Storage
JA58750-18.1.5	Metals Digestate Storage	Gulcag Temizau	11/01/10 16:34	Retrieve from Storage
JA58750-18.1.5	Gulcag Temizau	Metals Digestate Storage	11/01/10 16:35	Return to Storage
JA58750-18.1.5	Metals Digestate Storage		01/10/11 09:00	Disposed

Accutest Internal Chain of Custody

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Job Number: JA58750A
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA
 Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-18.2	Secured Storage	George Paunovski	10/15/10 16:17	Retrieve from Storage
JA58750-18.2	George Paunovski	Secured Storage	10/15/10 18:18	Return to Storage
JA58750-18.2	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58750-18.2	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58750-18.2	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58750-18.2	Secured Storage	Todd Shoemaker	10/20/10 08:26	Retrieve from Storage
JA58750-18.2	Todd Shoemaker	Sarvadaman Tripathi	10/20/10 08:31	Custody Transfer
JA58750-18.2	Shirley Grzybowski	Secured Storage	10/21/10 07:08	Return to Storage
Analyst unavailable for custody transfer.				
JA58750-18.2	Secured Storage	Adam Scott	10/22/10 06:15	Retrieve from Storage
JA58750-18.2	Adam Scott	Shirley Grzybowski	10/22/10 07:06	Custody Transfer
JA58750-18.2	Shirley Grzybowski	Secured Storage	10/22/10 14:28	Return to Storage
JA58750-18.2	Secured Storage	Adam Scott	10/23/10 06:42	Retrieve from Storage
JA58750-18.2	Adam Scott	Shirley Grzybowski	10/23/10 06:51	Custody Transfer
JA58750-18.2	Shirley Grzybowski	Secured Storage	10/23/10 12:49	Return to Storage
JA58750-18.2	Secured Storage	Adam Scott	10/25/10 06:28	Retrieve from Storage
JA58750-18.2	Adam Scott	Shirley Grzybowski	10/25/10 07:07	Custody Transfer
JA58750-18.2	Shirley Grzybowski	Rie Iwasaki	10/25/10 10:53	Custody Transfer
JA58750-18.2	Rie Iwasaki	Secured Storage	10/25/10 13:22	Return to Storage
JA58750-18.2	Secured Storage	Todd Shoemaker	10/27/10 08:44	Retrieve from Storage
JA58750-18.2	Todd Shoemaker	Melissa Smith	10/27/10 08:47	Custody Transfer
JA58750-18.2	Melissa Smith	Secured Storage	10/27/10 16:35	Return to Storage
JA58750-18.2	Secured Storage	Todd Shoemaker	11/03/10 08:11	Retrieve from Storage
JA58750-18.2	Todd Shoemaker	Jieyu Wang	11/03/10 08:13	Custody Transfer
JA58750-18.2	Jieyu Wang	Secured Storage	11/03/10 15:56	Return to Storage
JA58750-18.2	Secured Storage	Todd Shoemaker	11/09/10 08:44	Retrieve from Storage
JA58750-18.2	Todd Shoemaker	Vaidehi Amin	11/09/10 08:47	Custody Transfer
JA58750-18.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58750-18.2.1	George Paunovski	Organics Prep	10/15/10 16:18	Extract from JA58750-18.2
JA58750-18.2.1	Organics Prep	George Paunovski	10/15/10 23:50	Extract from JA58750-18.2
JA58750-18.2.1	George Paunovski	Extract Storage	10/15/10 23:51	Return to Storage
JA58750-18.2.1	Extract Storage	Toya Dagena Raffington	10/20/10 12:34	Retrieve from Storage
JA58750-18.2.1	Toya Dagena Raffington	GCWW	10/20/10 12:34	Load on Instrument
JA58750-18.2.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58750-18.2.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58750-18.2.1	Extract Freezer		11/25/10 09:00	Disposed
JA58750-18.2.2	Vaidehi Amin	GenChem Digestion	11/09/10 11:38	Digestate from JA58750-18.2
JA58750-18.3	Nick Popow		10/14/10 15:57	Subcontract
JA58750-18.4	Nick Popow		10/14/10 15:57	Subcontract

Accutest Internal Chain of Custody

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Job Number: JA58750A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/13/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58750-18.5	Nick Popow		10/14/10 15:57	Subcontract
JA58750-18.6	Secured Storage	Kristi Schollenberger	10/22/10 18:19	Retrieve from Storage
JA58750-18.6	Kristi Schollenberger	GCM SH	10/22/10 18:19	Load on Instrument
JA58750-18.6	GCM SH	Kristi Schollenberger	10/25/10 19:14	Unload from Instrument
JA58750-18.6	Kristi Schollenberger	Secured Storage	10/25/10 19:14	Return to Storage
JA58750-18.10	Secured Storage	Jianhua Li	10/21/10 16:35	Retrieve from Storage
JA58750-18.10	Jianhua Li	GCM SV	10/21/10 16:35	Load on Instrument
JA58750-18.10	GCM SV	Jianhua Li	10/22/10 10:25	Unload from Instrument
JA58750-18.10	Jianhua Li	Secured Storage	10/22/10 10:25	Return to Storage
JA58750-18.11	Secured Storage	Juntae Park	10/23/10 17:35	Retrieve from Storage
JA58750-18.11	Juntae Park	GCM SX	10/23/10 17:35	Load on Instrument
JA58750-18.11	GCM SX	Juntae Park	10/26/10 11:53	Unload from Instrument
JA58750-18.11	Juntae Park	Secured Storage	10/26/10 11:53	Return to Storage

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58750A

Bell Bend Nuclear Power Plant, Salem Township, PA

Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA58750-1T Collected: 12-OCT-10 10:26 By: MH Received: 13-OCT-10 By: MPC BBNP-CW1-C						
JA58750-1T SW846 8260B		23-OCT-10 21:22	JTP			VR8260SL
JA58750-1T SW846 8270C		02-NOV-10 11:12	NAP	22-OCT-10	SK	ABR8270SL
JA58750-2T Collected: 12-OCT-10 10:10 By: MH Received: 13-OCT-10 By: MPC BBNP-CW2-C						
JA58750-2T SW846 8260B		23-OCT-10 21:52	JTP			VR8260SL
JA58750-2T SW846 8270C		02-NOV-10 11:38	NAP	22-OCT-10	SK	ABR8270SL
JA58750-3T Collected: 12-OCT-10 12:02 By: MH Received: 13-OCT-10 By: MPC BBNP-CW3-C						
JA58750-3T SW846 8260B		23-OCT-10 22:21	JTP			VR8260SL
JA58750-3T SW846 8270C		02-NOV-10 12:03	NAP	22-OCT-10	SK	ABR8270SL
JA58750-4T Collected: 12-OCT-10 12:40 By: MH Received: 13-OCT-10 By: MPC BBNP-CW6-C						
JA58750-4T SW846 8260B		23-OCT-10 22:50	JTP			VR8260SL
JA58750-4T SW846 8270C		02-NOV-10 12:29	NAP	22-OCT-10	SK	ABR8270SL
JA58750-5T Collected: 12-OCT-10 14:23 By: MH Received: 13-OCT-10 By: MPC BBNP-CW9-C						
JA58750-5T SW846 8260B		23-OCT-10 23:20	JTP			VR8260SL
JA58750-5T SW846 8270C		02-NOV-10 12:55	NAP	22-OCT-10	SK	ABR8270SL
JA58750-6T Collected: 12-OCT-10 14:23 By: MH Received: 13-OCT-10 By: MPC BBNP-CW9-FD						
JA58750-6T SW846 8260B		23-OCT-10 23:48	JTP			VR8260SL
JA58750-6T SW846 8270C		02-NOV-10 13:20	NAP	22-OCT-10	SK	ABR8270SL
JA58750-7T Collected: 12-OCT-10 14:51 By: MH Received: 13-OCT-10 By: MPC BBNP-CW12-C						
JA58750-7T SW846 8260B		24-OCT-10 00:18	JTP			VR8260SL

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58750A

Bell Bend Nuclear Power Plant, Salem Township, PA

Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA58750-7TSW846 8270C		02-NOV-10 21:07	NAP	22-OCT-10	SK	ABR8270SL
JA58750-8T Collected: 12-OCT-10 15:49 By: MH Received: 13-OCT-10 By: MPC BBNP-CW15-C						
JA58750-8TSW846 8260B		24-OCT-10 00:47	JTP			VR8260SL
JA58750-8TSW846 8270C		02-NOV-10 13:46	NAP	22-OCT-10	SK	ABR8270SL
JA58750-9T Collected: 12-OCT-10 16:11 By: MH Received: 13-OCT-10 By: MPC BBNP-CW18-C						
JA58750-9TSW846 8260B		24-OCT-10 01:16	JTP			VR8260SL
JA58750-9TSW846 8270C		02-NOV-10 14:12	NAP	22-OCT-10	SK	ABR8270SL
JA58750-10T Collected: 12-OCT-10 16:29 By: MH Received: 13-OCT-10 By: MPC BBNP-CW21-C						
JA58750-10FW846 8260B		25-OCT-10 18:19	JTP			VR8260SL
JA58750-10FW846 8270C		03-NOV-10 13:50	KP	22-OCT-10	SK	ABR8270SL
JA58750-11T Collected: 13-OCT-10 08:25 By: MH Received: 13-OCT-10 By: MPC BBNP-CW5-C						
JA58750-11FW846 8260B		23-OCT-10 18:57	JTP			VR8260SL
JA58750-11FW846 8270C		02-NOV-10 15:59	NAP	22-OCT-10	SK	ABR8270SL
JA58750-12T Collected: 13-OCT-10 08:55 By: MH Received: 13-OCT-10 By: MPC BBNP-CW8-C						
JA58750-12FW846 8260B		25-OCT-10 18:48	JTP			VR8260SL
JA58750-12FW846 8270C		03-NOV-10 14:16	KP	22-OCT-10	SK	ABR8270SL
JA58750-13T Collected: 13-OCT-10 09:25 By: MH Received: 13-OCT-10 By: MPC BBNP-CW11-C						
JA58750-13FW846 8260B		25-OCT-10 19:17	JTP			VR8260SL
JA58750-13FW846 8270C		02-NOV-10 17:16	NAP	22-OCT-10	SK	ABR8270SL

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58750A

Bell Bend Nuclear Power Plant, Salem Township, PA
 Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
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JA58750-14 Collected: 13-OCT-10 10:01 By: MH Received: 13-OCT-10 By: MPC
 BBNP-CW14-C

JA58750-14FW846 8260B 25-OCT-10 19:47 JTP VR8260SL
 JA58750-14FW846 8270C 02-NOV-10 17:42 NAP 22-OCT-10 SK ABR8270SL

JA58750-15 Collected: 13-OCT-10 10:25 By: MH Received: 13-OCT-10 By: MPC
 BBNP-CW17-C

JA58750-15FW846 8260B 23-OCT-10 19:26 JTP VR8260SL
 JA58750-15FW846 8270C 02-NOV-10 18:07 NAP 22-OCT-10 SK ABR8270SL

JA58750-16 Collected: 13-OCT-10 11:15 By: MH Received: 13-OCT-10 By: MPC
 BBNP-CW20-C

JA58750-16FW846 8260B 23-OCT-10 19:55 JTP VR8260SL
 JA58750-16FW846 8270C 02-NOV-10 18:33 NAP 22-OCT-10 SK ABR8270SL

JA58750-17 Collected: 13-OCT-10 11:58 By: MH Received: 13-OCT-10 By: MPC
 BBNP-CW23-C

JA58750-17FW846 8260B 23-OCT-10 20:25 JTP VR8260SL
 JA58750-17FW846 8260B 25-OCT-10 20:16 JTP VR8260SL
 JA58750-17FW846 8270C 02-NOV-10 19:24 NAP 22-OCT-10 SK ABR8270SL

JA58750-18 Collected: 13-OCT-10 11:15 By: MH Received: 13-OCT-10 By: MPC
 BBNP-CW20-C-FD

JA58750-18FW846 8260B 23-OCT-10 20:53 JTP VR8260SL
 JA58750-18FW846 8270C 02-NOV-10 20:16 NAP 22-OCT-10 SK ABR8270SL

MSVOA

Volatile Internal Standard Area Summary

Page 1 of 2

Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std: VX4575-CC4516

Injection Date: 10/23/10

Lab File ID: X108253.D

Injection Time: 15:24

Instrument ID: GCMSX

Method: SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	79116	7.33	194387	10.04	266346	11.20	257817	15.42	127825	18.19
Upper Limit ^a	158232	7.83	388774	10.54	532692	11.70	515634	15.92	255650	18.69
Lower Limit ^b	39558	6.83	97194	9.54	133173	10.70	128909	14.92	63913	17.69

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VX4575-MB	85342	7.34	199564	10.03	267327	11.19	257781	15.42	128524	18.19
VX4575-BS	64399	7.34	196487	10.04	270327	11.20	257605	15.42	124696	18.19
JA58750-11MS	73702	7.33	178054	10.04	246140	11.20	216019	15.42	74211	18.19
JA58750-11MSD	77776	7.34	198810	10.04	275652	11.20	255179	15.42	113348	18.19
JA58750-11	69311	7.35	198712	10.04	257367	11.20	218220	15.42	76471	18.19
JA58750-11T	69311	7.35	198712	10.04	257367	11.20	218220	15.42	76471	18.19
ZZZZZZ	71542	7.33	205238	10.04	271790	11.20	249616	15.42	111815	18.19
JA58750-15T	71542	7.33	205238	10.04	271790	11.20	249616	15.42	111815	18.19
ZZZZZZ	67692	7.35	212558	10.04	280592	11.20	261996	15.42	129805	18.19
JA58750-16T	67692	7.35	212558	10.04	280592	11.20	261996	15.42	129805	18.19
ZZZZZZ	73419	7.33	195311	10.04	256953	11.20	214303	15.42	66701	18.19
JA58750-17T	73419	7.33	195311	10.04	256953	11.20	214303	15.42	66701	18.19
ZZZZZZ	93013	7.34	211844	10.04	285856	11.20	270819	15.42	131227	18.19
JA58750-18T	93013	7.34	211844	10.04	285856	11.20	270819	15.42	131227	18.19
ZZZZZZ	55340	7.35	207104	10.03	273695	11.20	253230	15.42	124839	18.19
JA58750-1T	55340	7.35	207104	10.03	273695	11.20	253230	15.42	124839	18.19
ZZZZZZ	75637	7.34	209862	10.04	276434	11.20	247507	15.42	112272	18.19
JA58750-2T	75637	7.34	209862	10.04	276434	11.20	247507	15.42	112272	18.19
ZZZZZZ	76233	7.34	213879	10.03	284576	11.20	263970	15.42	116762	18.19
JA58750-3T	76233	7.34	213879	10.03	284576	11.20	263970	15.42	116762	18.19
ZZZZZZ	71085	7.33	206297	10.03	273212	11.20	232279	15.42	76740	18.19
JA58750-4T	71085	7.33	206297	10.03	273212	11.20	232279	15.42	76740	18.19
ZZZZZZ	67207	7.34	209597	10.03	278148	11.20	252391	15.42	109348	18.19
JA58750-5T	67207	7.34	209597	10.03	278148	11.20	252391	15.42	109348	18.19
ZZZZZZ	72068	7.36	202170	10.04	268382	11.20	245960	15.42	112386	18.19
JA58750-6T	72068	7.36	202170	10.04	268382	11.20	245960	15.42	112386	18.19
ZZZZZZ	73146	7.33	200877	10.04	266193	11.20	242637	15.42	104253	18.19
JA58750-7T	73146	7.33	200877	10.04	266193	11.20	242637	15.42	104253	18.19
ZZZZZZ	89518	7.34	204088	10.04	275716	11.20	269975	15.42	125913	18.19
JA58750-8T	89518	7.34	204088	10.04	275716	11.20	269975	15.42	125913	18.19
ZZZZZZ	72403	7.33	208616	10.03	279430	11.20	262614	15.42	119438	18.19
JA58750-9T	72403	7.33	208616	10.03	279430	11.20	262614	15.42	119438	18.19

IS 1 = Tert Butyl Alcohol-D9

IS 2 = Pentafluorobenzene

Volatile Internal Standard Area Summary

Page 2 of 2

Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std: VX4575-CC4516

Injection Date: 10/23/10

Lab File ID: X108253.D

Injection Time: 15:24

Instrument ID: GCMSX

Method: SW846 8260B

Lab	IS 1	IS 2	IS 3	IS 4	IS 5					
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

IS 2 = 1,4-Difluorobenzene

IS 4 = Chlorobenzene-D5

IS 5 = 1,4-Dichlorobenzene-d4

(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.

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std: VX4577-CC4516

Injection Date: 10/25/10

Lab File ID: X108300.D

Injection Time: 13:00

Instrument ID: GCMSX

Method: SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	62973	7.34	123238	10.04	182182	11.20	182079	15.42	85639	18.20
Upper Limit ^a	125946	7.84	246476	10.54	364364	11.70	364158	15.92	171278	18.70
Lower Limit ^b	31487	6.84	61619	9.54	91091	10.70	91040	14.92	42820	17.70

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VX4577-MB	61749	7.36	129485	10.05	185899	11.22	181260	15.43	86569	18.20
VX4577-BS	52570	7.35	119054	10.05	176161	11.21	178002	15.43	83454	18.20
JA59318-2MS	61999	7.34	121812	10.05	181530	11.21	180111	15.43	85545	18.20
JA59318-2MSD	52285	7.36	126096	10.05	184439	11.22	181376	15.43	84928	18.20
JA59318-2	61726	7.36	134270	10.05	187532	11.22	180669	15.43	87775	18.20
ZZZZZZ	55770	7.35	134253	10.05	190200	11.22	181837	15.43	85586	18.20
ZZZZZZ	54144	7.35	133556	10.05	187667	11.22	171843	15.43	63310	18.21
JA58750-10T	54144	7.35	133556	10.05	187667	11.22	171843	15.43	63310	18.21
ZZZZZZ	56784	7.36	140261	10.05	195837	11.22	184042	15.43	73952	18.20
JA58750-12T	56784	7.36	140261	10.05	195837	11.22	184042	15.43	73952	18.20
ZZZZZZ	56934	7.36	130205	10.05	187838	11.22	153042	15.43	37093*	18.20
JA58750-13T	56934	7.36	130205	10.05	187838	11.22	153042	15.43	37093*	18.20
ZZZZZZ	62092	7.37	141405	10.05	200650	11.22	189618	15.43	81449	18.20
JA58750-14T	62092	7.37	141405	10.05	200650	11.22	189618	15.43	81449	18.20
ZZZZZZ	54691	7.36	103208	10.05	139936	11.22	76549*	15.43	11224*	18.21
JA58750-17T ^c	54691	7.36	103208	10.05	139936	11.22	76549*	15.43	11224*	18.21
ZZZZZZ	58922	7.36	144435	10.05	206037	11.22	197431	15.43	92257	18.21
ZZZZZZ	60816	7.37	138785	10.05	198672	11.22	191072	15.43	90791	18.20
ZZZZZZ	54730	7.36	142271	10.05	202818	11.22	197418	15.43	93007	18.20
ZZZZZZ	57567	7.36	144640	10.05	205324	11.22	198563	15.43	93829	18.20
ZZZZZZ	54492	7.36	143701	10.05	204130	11.22	193017	15.43	86652	18.21
ZZZZZZ	43891	7.36	139849	10.05	200781	11.22	188610	15.43	74815	18.21
ZZZZZZ	58491	7.36	139020	10.05	198549	11.22	191902	15.43	81358	18.20

IS 1 = Tert Butyl Alcohol-D9

IS 2 = Pentafluorobenzene

IS 3 = 1,4-Difluorobenzene

IS 4 = Chlorobenzene-D5

IS 5 = 1,4-Dichlorobenzene-d4

(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) Confirmation run for surrogate recovery.

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JA58750A

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: SW846 8260B

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JA58750-1T	X108264T.D	92.0	97.0	107.0	108.0
JA58750-2T	X108265T.D	95.0	98.0	106.0	114.0
JA58750-3T	X108266T.D	92.0	97.0	108.0	116.0
JA58750-4T	X108267T.D	94.0	96.0	106.0	138.0
JA58750-5T	X108268T.D	91.0	94.0	108.0	117.0
JA58750-6T	X108269T.D	93.0	97.0	107.0	113.0
JA58750-7T	X108270T.D	93.0	97.0	108.0	118.0
JA58750-8T	X108271T.D	94.0	103.0	110.0	112.0
JA58750-9T	X108272T.D	95.0	99.0	108.0	115.0
JA58750-10T	X108309T.D	101.0	110.0	112.0	137.0
JA58750-11T	X108259T.D	93.0	95.0	106.0	134.0
JA58750-12T	X108310T.D	98.0	109.0	112.0	129.0
JA58750-13T	X108311T.D	107.0	114.0	108.0	175.0*
JA58750-14T	X108312T.D	99.0	111.0	113.0	124.0
JA58750-15T	X108260T.D	91.0	97.0	108.0	116.0
JA58750-16T	X108261T.D	93.0	98.0	108.0	108.0
JA58750-17T	X108313T.D	120.0	115.0	98.0	198.0*
JA58750-17T	X108262T.D	95.0	97.0	106.0	143.0*
JA58750-18T	X108263T.D	94.0	102.0	108.0	109.0
JA58750-11MS	X108256.D	100.0	102.0	107.0	127.0
JA58750-11MSD	X108257.D	99.0	102.0	106.0	107.0
JA59318-2MS	X108303.D	108.0	119.0	111.0	109.0
JA59318-2MSD	X108304.D	103.0	113.0	111.0	111.0
VX4575-BS	X108255.D	95.0	98.0	107.0	108.0
VX4575-MB	X108254.D	97.0	106.0	108.0	109.0
VX4577-BS	X108302.D	106.0	116.0	112.0	111.0
VX4577-MB	X108301.D	103.0	118.0	114.0	115.0

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane	67-127%
S2 = 1,2-Dichloroethane-D4	65-132%
S3 = Toluene-D8	74-129%
S4 = 4-Bromofluorobenzene	62-138%

- 1) Freon 142B
calibrated in MDL study
- 2) methyl acrylate
regularly calibrated compound
- 3) 1-Chlorobutane
regularly calibrated compound in V524 method
- 4) n-butyl alcohol
regularly calibrated compound
- 5) Ethyl Acrylate
regularly calibrated compound
- 6) 2-nitropropane
regularly calibrated compound
- 7) cis-1,3-dichloropropene
regularly calibrated compound
- 8) trans-1,3-dichloropropene
regularly calibrated compound
- 9) cyclohexanone
regularly calibrated compound
- 10) Vinyl toluene
calibrated in MDL study
- 11) Bis(chloromethyl)ether
Use Ion search

Compound List Report MSV

Method Path : C:\MSDCHEM\1\METHODS\
 Method File : MVS4452B.M
 Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Wed Dec 22 16:46:54 2010
 Response Via : Initial Calibration

Total Cpnds : 20

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1 I	Tert Butyl Alcohol-d9	65	7.45	1.000	A	1	A	B
2 I	pentafluorobenzene	168	9.67	1.000	A	2	A	L
3	Freon 142B	65	4.47	0.463	A	3	A	B
4	methyl acrylate	85	9.27	0.958	A	2	A	B
5	1-Chlorobutane	56	9.87	1.020	A	3	A	B
6 S	dibromofluoromethane (s)	113	9.73	1.006	A	2	A	B
7 S	1,2-dichloroethane-d4 (s)	65	10.16	1.050	A	2	A	B
8 I	1,4-difluorobenzene	114	10.62	1.000	A	2	A	B
9	n-butyl alcohol	56	10.75	1.012	A	2	A	B
10	Ethyl Acrylate	55	10.97	1.033	A	3	A	B
11	2-nitropropane	46	12.17	1.146	L	3	A	B
12	cis-1,3-dichloropropene	75	12.03	1.133	A	2	A	B
13 S	toluene-d8 (s)	98	12.35	1.163	A	2	A	B
14	trans-1,3-dichloropropene	75	12.64	1.191	A	2	A	B
15 I	chlorobenzene-d5	117	14.03	1.000	A	2	A	B
16	cyclohexanone	55	15.29	1.090	A	2	A	B
17 S	4-bromofluorobenzene (s)	95	15.34	1.093	A	2	A	B
18 I	1,4-dichlorobenzene-d4	152	16.65	1.000	A	2	A	B
19	Vinyl toluene	118	16.93	1.017	A	3	A	B
20	Bis(chloromethyl)ether	79	0.00	0.000	A	3	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

#Qual = number of qualifiers

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

MVS4452B.M Thu Dec 30 13:06:10 2010 RPT1

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\AV4693-4695\V110932.D Vial: 26
 Acq On : 29 Dec 2010 12:11 am Operator: JIANHUAL
 Sample : CC4646-50 Inst : MSV
 Misc : MS6437,VV4694,5,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MVS4646.M (RTE Integrator)
 Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Thu Dec 16 10:30:02 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	108	0.00	7.44
2	tertiary butyl alcohol	1.285	1.520	-18.3	118	0.00	7.55
3	1,4-dioxane	0.111	0.168	-51.4#	150	0.00	11.36
4 I	pentafluorobenzene	1.000	1.000	0.0	115	0.00	9.66
5	Freon 115			NA			
6	Freon 23			NA			
7	Freon 143A			NA			
8	Freon 152A			NA			
9	Freon 114			NA			
10	Freon 142B			NA			
11	Chlorotrifluoroethene			NA			
12	1,3-Butadiene			NA			
13	chlorodifluoromethane	0.391	0.333	14.8	103	0.00	4.26
14	dichlorodifluoromethane	0.633	0.458	27.6#	89	0.01	4.26
15	chloromethane	0.799	0.631	21.0#	99	0.00	4.55
16	vinyl chloride	0.627	0.515	17.9	102	0.00	4.79
17	bromomethane	0.390	0.366	6.2	120	0.00	5.40
18	chloroethane	0.337	0.298	11.6	109	0.00	5.57
19	trichlorofluoromethane	0.637	0.555	12.9	108	0.00	6.03
20	Vinyl Bromide			NA			
21	ethyl ether	0.234	0.254	-8.5	123	0.00	6.38
22	Acetaldehyde			NA			
23	Pentane			NA			
24	Freon 123A			NA			
25	Freon 141B			NA			
26	Freon 123			NA			
27	acrolein	0.083	0.037	55.4#	55	0.00	6.64
28	freon 113	0.291	0.299	-2.7	124	0.00	6.77
29	1,1-dichloroethene	0.371	0.347	6.5	112	0.00	6.80
30	acetone	True 50.000	Calc. 41.755	% Drift 16.5	111	0.01	6.89
31	iso-butyl alcohol	AvgRF 0.014	CCRF 0.014	% Dev 0.0	116	0.00	10.23
32	allyl chloride	0.082	0.077	6.1	111	0.00	7.30
33	acetonitrile	0.037	0.030	18.9	101	0.00	7.30
34	iodomethane	0.741	0.785	-5.9	124	0.00	7.08
35	carbon disulfide	1.318	1.179	10.5	108	0.00	7.22
36	methylene chloride	0.449	0.461	-2.7	120	0.00	7.48
37	methyl acetate	True 50.000	Calc. 50.013	% Drift -0.0	118	0.00	7.31
38	methyl tert butyl ether	AvgRF 1.313	CCRF 1.303	% Dev 0.8	120	0.00	7.80
39	trans-1,2-dichloroethene	0.426	0.401	5.9	113	0.00	7.86
40	di-isopropyl ether	1.585	1.396	11.9	108	0.00	8.38
41	2-butanone	0.046	0.041	10.9	109	-0.02	9.14
42	1,1-dichloroethane	0.761	0.730	4.1	109	0.00	8.41
43	chloroprene	0.529	0.511	3.4	112	0.00	8.53
44	acrylonitrile	0.144	0.135	6.2	112	0.00	7.81
45	vinyl acetate	True 50.000	Calc. 45.690	% Drift 8.6	112	0.00	8.42
46	ethyl tert-butyl ether	AvgRF 1.489	CCRF 1.383	% Dev 7.1	112	0.00	8.84

		True	Calc.	% Drift			
47	ethyl acetate	50.000	40.671	18.7	108	0.00	9.14
		AvgRF	CCRF	% Dev			
48	2,2-dichloropropane	0.611	0.529	13.4	104	0.00	9.15
49	cis-1,2-dichloroethene	0.476	0.480	-0.8	121	0.00	9.15
50	propionitrile	0.054	0.054	0.0	116	0.00	9.21

		True	Calc.	% Drift			
51	methyl acrylate	50.000	50.633	-1.3	128	0.00	9.26

		AvgRF	CCRF	% Dev			
52	methacrylonitrile	0.153	0.151	1.3	119	0.00	9.41
53	bromochloromethane	0.232	0.257	-10.8	130	0.00	9.46
54	tetrahydrofuran	0.152	0.135	11.2	110	0.00	9.52
55	chloroform	0.749	0.721	3.7	116	0.00	9.51
56	tert-Butyl Formate	0.433	0.380	12.2	108	0.00	9.54
57 S	dibromofluoromethane (s)	0.407	0.410	-0.7	118	0.00	9.71
58 S	1,2-dichloroethane-d4 (s)	0.464	0.415	10.6	102	0.00	10.14
59	1,1,1-trichloroethane	0.593	0.537	9.4	106	0.00	9.78
60	Cyclohexane	0.588	0.534	9.2	107	0.00	9.86
61	Tert Amyl Alcohol	0.017	0.014	17.6	103	-0.01	10.07

62 I	1,4-difluorobenzene	1.000	1.000	0.0	112	0.00	10.60
63	methylcyclohexane	0.458	0.433	5.5	109	0.00	11.19
64	epichlorohydrin	0.030	0.025	16.7	101	0.00	11.92
65	n-butyl alcohol	0.009	0.009	0.0	117	0.00	10.73
66	carbon tetrachloride	0.375	0.350	6.7	105	0.00	9.98
67	1,1-dichloropropene	0.380	0.368	3.2	108	0.00	9.96
68	hexane	0.372	0.322	13.4	107	0.00	8.15
69	2,2,4-Trimethylpentane	1.046	0.912	12.8	105	0.00	10.22
70	benzene	1.208	1.211	-0.2	114	0.00	10.23
71	tert-amyl methyl ether	0.998	0.979	1.9	117	0.00	10.25
72	heptane	0.212	0.182	14.2	109	0.00	10.39
73	isopropyl acetate	0.115	0.108	6.1	113	0.00	10.13
74	1,2-dichloroethane	0.392	0.389	0.8	110	0.00	10.23
75	trichloroethene	0.287	0.289	-0.7	115	0.00	10.96

		True	Calc.	% Drift			
76	Ethyl Acrylate	50.000	51.171	-2.3	114	0.00	10.97

		AvgRF	CCRF	% Dev			
77	tert-Amyl Ethyl Ether	0.493	0.502	-1.8	118	0.00	11.10
78	2-chloroethyl vinyl ether	0.183	0.158	13.7	99	0.00	11.77
79	methyl methacrylate	0.076	0.090	-18.4	129	0.00	11.24
80	1,2-dichloropropane	0.328	0.339	-3.4	117	0.00	11.22
81	dibromomethane	0.179	0.199	-11.2	125	0.00	11.40
82	bromodichloromethane	0.410	0.426	-3.9	116	0.00	11.52

		True	Calc.	% Drift			
83	2-nitropropane	50.000	42.562	14.9	89	0.01	11.77

		AvgRF	CCRF	% Dev			
84	cis-1,3-dichloropropene	0.533	0.572	-7.3	120	0.00	12.02
85 S	toluene-d8 (s)	1.069	1.183	-10.7	128	0.00	12.34
86	4-methyl-2-pentanone	0.121	0.119	1.7	117	0.00	12.12
87	toluene	0.776	0.784	-1.0	115	0.00	12.42
88	isoamyl alcohol	0.015	0.014	6.7	111	0.00	12.14
89	trans-1,3-dichloropropene	0.474	0.505	-6.5	119	0.00	12.63
90	ethyl methacrylate	0.373	0.395	-5.9	118	0.00	12.62
91	1,1,2-trichloroethane	0.230	0.251	-9.1	124	0.00	12.86
92	2-hexanone	0.123	0.112	8.9	115	0.00	13.08

93 I	chlorobenzene-d5	1.000	1.000	0.0	116	0.00	14.02
94	tetrachloroethene	0.371	0.375	-1.1	118	0.00	13.07
95	1,3-dichloropropane	0.490	0.515	-5.1	122	0.00	13.06
96	butyl acetate	0.078	0.067	14.1	101	0.00	13.15

		True	Calc.	% Drift			
97	3,3-Dimethyl-1-Butanol	500.000	486.608	2.7	117	0.00	13.25

		AvgRF	CCRF	% Dev			
98	dibromochloromethane	0.354	0.390	-10.2	128	0.00	13.36
99	1,2-dibromoethane	0.296	0.329	-11.1	127	0.00	13.53
100	chlorobenzene	0.959	1.003	-4.6	122	0.00	14.05
101	1,1,1,2-tetrachloroethane	0.352	0.385	-9.4	125	0.00	14.11

102	ethylbenzene	1.526	1.462	4.2	111	0.00	14.11
103	m,p-xylene	0.625	0.618	1.1	115	0.00	14.23
104	o-xylene	0.629	0.640	-1.7	116	0.00	14.70
105	styrene	1.077	1.093	-1.5	114	0.00	14.72
106	Butyl Acrylate						
107	bromoform	0.268	0.294	-9.7	126	0.00	15.02
108	cyclohexanone	0.041	0.013	68.3#	53	0.00	15.28
109 S	4-bromofluorobenzene (s)	0.489	0.457	6.5	116	0.00	15.33
110 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	16.64
111	isopropylbenzene	3.000	2.905	3.2	112	0.00	15.08
112	1,1,2,2-tetrachloroethane	0.797	0.796	0.1	120	0.00	15.42
113	trans-1,4-dichloro-2-bute	0.213	0.176	17.4	104	0.00	15.48
114	1,2,3-trichloropropane	0.210	0.219	-4.3	123	0.00	15.51
115	bromobenzene	0.898	0.961	-7.0	123	0.00	15.55
116	n-propylbenzene	3.562	3.180	10.7	105	0.00	15.55
117	4-Ethyltoluene	3.019	2.815	6.8	106	0.00	15.66
118	2-chlorotoluene	0.803	0.795	1.0	115	0.00	15.72
119	4-chlorotoluene	2.292	2.183	4.8	111	0.00	15.83
120	1,3,5-trimethylbenzene	2.706	2.491	7.9	110	0.00	15.72
121	tert-butylbenzene	2.206	2.161	2.0	113	0.00	16.11
122	pentachloroethane	0.559	0.599	-7.2	125	0.00	16.20
123	1,2,4-trimethylbenzene	2.680	2.571	4.1	112	0.00	16.17
124	sec-butylbenzene	3.320	3.121	6.0	109	0.00	16.36
125	p-isopropyltoluene	2.773	2.648	4.5	110	0.00	16.49
126	1,3-dichlorobenzene	1.614	1.636	-1.4	115	0.00	16.58
127	1,4-dichlorobenzene	1.812	1.692	6.6	112	0.00	16.67
128	1,2-dichlorobenzene	1.604	1.628	-1.5	118	0.00	17.11
129	Benzyl Chloride	1.593	1.294	18.8	99	0.00	16.79
130	Vinyl Toluene						
131	1,4-Diethylbenzene	1.771	1.557	12.1	101	0.00	16.91
132	n-butylbenzene	1.440	1.288	10.6	100	0.00	16.95
133	hexachloroethane	0.528	0.545	-3.2	115	0.00	17.40
134	1,2,4,5-tetramethylbenzen	2.645	2.479	6.3	106	0.00	17.79
135	1,2-dibromo-3-chloropropa	0.135	0.116	14.1	108	0.00	17.96
136	1,3,5-trichlorobenzene	1.321	1.250	5.4	108	0.00	18.18
137	1,2,4-trichlorobenzene	1.181	1.054	10.8	102	0.00	18.90
138	hexachlorobutadiene	0.605	0.644	-6.4	121	0.00	19.02
139	naphthalene	2.237	2.020	9.7	106	0.00	19.23
140	1,2,3-trichlorobenzene	1.035	1.004	3.0	111	0.00	19.52

(#) = Out of Range
V109917.D MVS4646.M

SPCC's out = 0 CCC's out = 0
Thu Dec 30 14:54:18 2010 RPT1

Response Factor Report MSV

Method : C:\MSDCHEM\1\METHODS\MVS4646.M (RTE Integrator)
 Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Thu Dec 16 10:30:02 2010
 Response via : Initial Calibration

Calibration Files

1 =V109913.D 10 =V109910.D 100 =V109918.D 50 =V109917.D
 20 =V109916.D 200 =V109919.D 5 =V109911.D 0.5 =V109915.D
 2 =V109912.D =

Compound	1	10	100	50	20	200	5	0.5	2	Avg	%RSD
1) I Tert Butyl Alcohol-d9 -----ISTD-----											
2) tertiary butyl alcohol	1.153	1.390	1.411	1.392	1.380	1.316	1.128		1.106	1.285	10.30
3) 1,4-dioxane	0.099	0.125	0.121	0.112	0.120	0.090				0.111	12.74
4) I pentafluorobenzene -----ISTD-----											
5) Freon 115										0.000	-1.00
6) Freon 23										0.000	-1.00
7) Freon 143A										0.000	-1.00
8) Freon 152A										0.000	-1.00
9) Freon 114										0.000	-1.00
10) Freon 142B										0.000	-1.00
11) Chlorotrifluoroethene										0.000	-1.00
12) 1,3-Butadiene										0.000	-1.00
13) chlorodifluoromethane	0.338	0.461	0.394	0.371	0.405	0.323	0.468		0.367	0.391	13.49
14) dichlorodifluoromethane	0.605	0.707	0.617	0.593	0.646	0.513	0.705		0.679	0.633	10.35
15) chloromethane	0.878	0.877	0.781	0.731	0.785	0.679	0.834		0.829	0.799	8.70
16) vinyl chloride	0.664	0.672	0.619	0.578	0.602	0.535	0.672		0.671	0.627	8.28
17) bromomethane	0.410	0.387	0.390	0.351	0.368	0.343	0.406		0.465	0.390	9.92
18) chloroethane	0.318	0.359	0.340	0.315	0.334	0.294	0.380		0.355	0.337	8.21
19) trichlorofluoromethane	0.716	0.628	0.591	0.638	0.539	0.708			0.635	0.637	9.73
20) Vinyl Bromide										0.000	-1.00
21) ethyl ether	0.252	0.268	0.236	0.244	0.233	0.206			0.199	0.234	10.52
22) Acetaldehyde										0.000	-1.00
23) Pentane										0.000	-1.00
24) Freon 123A										0.000	-1.00
25) Freon 141B										0.000	-1.00
26) Freon 123										0.000	-1.00
27) acrolein	0.088	0.094		0.077	0.077		0.074		0.088	0.083	9.50
28) freon 113	0.248	0.308	0.299	0.277	0.289	0.263	0.326		0.319	0.291	9.28
29) 1,1-dichloroethene	0.371	0.408	0.376	0.354	0.374	0.338	0.400		0.347	0.371	6.62
30) acetone	0.056	0.033	0.028	0.029	0.030					0.035	33.39
----- Linear regression ----- Coefficient = 0.9939											
Response Ratio = 0.00194 + 0.03010 *A											

31)	iso-butyl alcohol	0.015	0.015	0.014	0.014	0.013	0.015	0.012	0.014	8.96
32)	allyl chloride	0.087	0.083	0.080	0.080	0.072	0.088		0.082	7.04
33)	acetonitrile	0.045	0.040	0.034	0.033	0.032	0.037		0.037	13.38
34)	iodomethane	0.640	0.798	0.778	0.724	0.766	0.701	0.731	0.741	7.17
35)	carbon disulfide	1.267	1.472	1.315	1.258	1.331	1.206	1.268	1.318	6.79
36)	methylene chloride	0.405	0.481	0.487	0.442	0.460	0.431	0.431	0.449	6.16
37)	methyl acetate	0.056	0.069	0.060	0.058	0.059	0.040		0.057	16.69
----- Linear regression ----- Coefficient = 0.9926										
Response Ratio = 0.00078 + 0.06104 *A										
38)	methyl tert butyl ether	1.417	1.375	1.423	1.245	1.300	1.196	1.239	1.313	6.48
39)	trans-1,2-dichloroethene	0.424	0.456	0.433	0.407	0.426	0.390	0.415	0.426	5.49
40)	di-isopropyl ether	1.528	1.694	1.622	1.484	1.586	1.394	1.704	1.585	6.91
41)	2-butanone	0.053	0.053	0.043	0.039	0.043			0.046	14.46
42)	1,1-dichloroethane	0.661	0.862	0.807	0.766	0.792	0.722	0.675	0.761	9.21
43)	chloroprene	0.460	0.575	0.542	0.523	0.556	0.479	0.554	0.529	7.55
44)	acrylonitrile	0.156	0.166	0.139	0.142	0.135	0.144	0.129	0.144	8.72
45)	vinyl acetate	0.052	0.075	0.062	0.053	0.069			0.062	15.85
----- Linear regression ----- Coefficient = 0.9962										
Response Ratio = -0.00424 + 0.07108 *A										
46)	ethyl tert-butyl ether	1.505	1.573	1.560	1.415	1.506	1.350	1.476	1.489	5.01
47)	ethyl acetate	0.074	0.071	0.062	0.070	0.055	0.044		0.063	18.03
----- Quadratic regression ----- Coefficient = 0.9958										
Response Ratio = -0.00480 + 0.08392 *A + -0.00685 *A^2										
48)	2,2-dichloropropane	0.571	0.703	0.592	0.584	0.609	0.511	0.623	0.611	10.46
49)	cis-1,2-dichloroethene	0.473	0.506	0.500	0.454	0.470	0.448	0.475	0.476	4.21
50)	propionitrile	0.055	0.066	0.054	0.052	0.053	0.043		0.054	13.64
51)	methyl acrylate	0.033	0.067	0.052	0.047	0.056			0.051	24.81
----- Linear regression ----- Coefficient = 0.9863										
Response Ratio = -0.00195 + 0.05855 *A										
52)	methacrylonitrile	0.155	0.186	0.146	0.156	0.152	0.120		0.153	13.92
53)	bromochloromethane	0.250	0.255	0.226	0.232	0.226	0.226	0.211	0.232	6.65
54)	tetrahydrofuran	0.167	0.162	0.141	0.141	0.131	0.170	0.149	0.152	9.86
55)	chloroform	0.754	0.813	0.762	0.715	0.763	0.678	0.715	0.749	5.88
56)	tert-Butyl Formate	0.447	0.469	0.402	0.434	0.380	0.447	0.453	0.433	7.18
57)	dibromofluoromethane (s)	0.398	0.432	0.427	0.397	0.395	0.381	0.425	0.407	4.53
58)	1,2-dichloroethane-d4 (s)	0.395	0.524	0.476	0.467	0.467	0.407	0.487	0.471	8.62
59)	1,1,1-trichloroethane	0.523	0.665	0.606	0.579	0.610	0.532	0.575	0.593	8.56
60)	Cyclohexane	0.540	0.657	0.604	0.574	0.603	0.539	0.515	0.588	9.56
61)	Tert Amyl Alcohol	0.016	0.019	0.015	0.013		0.018		0.017	14.27
62)	I 1,4-difluorobenzene	-----ISTD-----								

63)	methylcyclohexane	0.399	0.535	0.455	0.442	0.480	0.416	0.512	0.406	0.474	0.458	10.28
64)	epichlorohydrin	0.031	0.033	0.028	0.028	0.026	0.034		0.027	0.030		10.79
65)	n-butyl alcohol	0.010	0.011	0.009	0.009	0.008	0.008			0.009		14.82
66)	carbon tetrachloride	0.336	0.419	0.374	0.372	0.388	0.336	0.417	0.358	0.375		8.52
67)	1,1-dichloropropene	0.323	0.436	0.390	0.380	0.394	0.359	0.412	0.349	0.380		9.47
68)	hexane	0.390	0.418	0.345	0.335	0.367	0.311	0.393	0.415	0.372		10.49
69)	2,2,4-Trimethylpentane	0.954	1.209	1.002	0.971	1.044	0.910	1.220	1.053	1.046		10.94
70)	benzene	1.146	1.342	1.238	1.184	1.212	1.123	1.282	1.136	1.208		6.35
71)	tert-amyl methyl ether	1.161	1.028	1.022	0.933	0.971	0.891	0.981	0.997	0.998		8.00
72)	heptane	0.229	0.244	0.198	0.186	0.211	0.178	0.245	0.202	0.212		12.05
73)	isopropyl acetate	0.121	0.127	0.107	0.110	0.107	0.117			0.115		7.07
74)	1,2-dichloroethane	0.376	0.427	0.413	0.394	0.396	0.369	0.394	0.363	0.392		5.59
75)	trichloroethene	0.257	0.316	0.295	0.280	0.290	0.269	0.315	0.273	0.287		7.33
76)	Ethyl Acrylate	0.059	0.062	0.057	0.056	0.054	0.032			0.054		20.27
----- Linear regression ----- Coefficient = 0.9939												
Response Ratio = 0.00182 + 0.05521 *A												
77)	tert-Amyl Ethyl Ether	0.462	0.524	0.514	0.475	0.488	0.468	0.519	0.494	0.493		4.84
78)	2-chloroethyl vinyl ether	0.202	0.207	0.177	0.183	0.172	0.185		0.153	0.183		9.98
79)	methyl methacrylate	0.077	0.091	0.078	0.074	0.077	0.061			0.076		12.26
80)	1,2-dichloropropane	0.317	0.350	0.345	0.324	0.333	0.312	0.349	0.292	0.328		6.16
81)	dibromomethane	0.145	0.200	0.197	0.178	0.183	0.176	0.190	0.180	0.158	0.179	9.97
82)	bromodichloromethane	0.410	0.435	0.436	0.409	0.421	0.395	0.418	0.355	0.410		6.33
83)	2-nitropropane	0.004	0.006	0.006	0.004	0.005				0.005		18.27
----- Linear regression ----- Coefficient = 0.9887												
Response Ratio = 0.00022 + 0.00531 *A												
84)	cis-1,3-dichloropropene	0.494	0.582	0.564	0.531	0.554	0.511	0.541	0.487	0.533		6.34
85)	toluene-d8 (s)	1.110	1.117	1.070	1.034	1.044	0.969	1.119	1.027	1.133	1.069	5.15
86)	4-methyl-2-pentanone	0.136	0.137	0.113	0.112	0.109	0.120			0.121		10.30
87)	toluene	0.772	0.827	0.782	0.761	0.772	0.709	0.817	0.769	0.776		4.68
88)	isoamyl alcohol	0.018	0.017	0.014	0.014	0.013	0.013			0.015		13.73
89)	trans-1,3-dichloropropene	0.357	0.530	0.527	0.473	0.491	0.460	0.495	0.459	0.474		11.49
90)	ethyl methacrylate	0.411	0.427	0.373	0.380	0.360	0.287			0.373		13.10
91)	1,1,2-trichloroethane	0.213	0.245	0.251	0.225	0.233	0.218	0.231	0.222	0.230		5.65
92)	2-hexanone	0.150	0.139	0.109	0.110	0.112	0.117			0.123		14.09
93)	I chlorobenzene-d5	-----ISTD-----										
94)	tetrachloroethene	0.327	0.419	0.386	0.369	0.393	0.355	0.377	0.338	0.371		8.08
95)	1,3-dichloropropane	0.434	0.535	0.537	0.489	0.522	0.474	0.474	0.458	0.490		7.67
96)	butyl acetate	0.090	0.085	0.078	0.084	0.070	0.061			0.078		13.90
97)	3,3-Dimethyl-1-Butanol	0.027	0.029	0.022	0.023		0.020		0.019	0.023		16.31
----- Quadratic regression ----- Coefficient = 0.9983												

$$\text{Response Ratio} = 0.01016 + 0.01481 * A + 0.00066 * A^2$$

98)	dibromochloromethane	0.332	0.367	0.390	0.353	0.363	0.348	0.351	0.329	0.354	5.52
99)	1,2-dibromoethane	0.230	0.334	0.335	0.301	0.308	0.291	0.291	0.280	0.296	11.20
100)	chlorobenzene	0.909	1.026	1.002	0.953	0.986	0.911	1.012	0.876	0.959	5.77
101)	1,1,1,2-tetrachloroethane	0.317	0.373	0.381	0.357	0.364	0.347	0.345	0.335	0.352	5.90
102)	ethylbenzene	1.440	1.670	1.572	1.528	1.561	1.416	1.589	1.431	1.526	5.90
103)	m,p-xylene	0.583	0.694	0.642	0.624	0.648	0.583	0.639	0.591	0.625	6.16
104)	o-xylene	0.607	0.662	0.656	0.639	0.651	0.603	0.643	0.568	0.629	5.17
105)	styrene	1.031	1.184	1.154	1.110	1.122	1.047	1.074	0.893	1.077	8.39
106)	Butyl Acrylate									0.000	-1.00
107)	bromoform	0.250	0.288	0.309	0.271	0.277	0.266	0.268	0.220	0.268	9.79
108)	cyclohexanone	0.077	0.028	0.027	0.026	0.021	0.065			0.041	58.68
109)	4-bromofluorobenzene (s)	0.563	0.505	0.486	0.457	0.449	0.436	0.477	0.537	0.489	9.01
110)	I 1,4-dichlorobenzene-d	-----ISTD-----									
111)	isopropylbenzene	2.997	3.265	2.892	2.870	2.977	2.777	3.378	2.843	3.000	7.09
112)	1,1,2,2-tetrachloroethane	0.856	0.871	0.841	0.730	0.796	0.728	0.841	0.712	0.797	8.10
113)	trans-1,4-dichloro-2-butene	0.236	0.221	0.186	0.220	0.193	0.222			0.213	9.00
114)	1,2,3-trichloropropane	0.226	0.220	0.196	0.205	0.192	0.224			0.210	6.98
115)	bromobenzene	0.899	0.951	0.912	0.863	0.878	0.878	0.952	0.853	0.898	4.20
116)	n-propylbenzene	3.688	3.832	3.397	3.356	3.481	3.233	3.942	3.570	3.562	6.86
117)	4-Ethyltoluene	3.171	2.972	2.934	3.010	2.839	3.170		3.033	3.019	4.02
118)	2-chlorotoluene	0.826	0.847	0.794	0.764	0.791	0.767	0.854	0.783	0.803	4.34
119)	4-chlorotoluene	2.224	2.395	2.233	2.179	2.278	2.113	2.550	2.362	2.292	6.07
120)	1,3,5-trimethylbenzene	2.856	2.558	2.490	2.609	2.389	3.089		2.947	2.706	9.61
121)	tert-butylbenzene	2.277	2.335	2.166	2.114	2.193	2.076	2.352	2.135	2.206	4.70
122)	pentachloroethane	0.611	0.593	0.558	0.530	0.534	0.515	0.602	0.530	0.559	6.73
123)	1,2,4-trimethylbenzene	2.938	2.778	2.606	2.538	2.642	2.433	2.880	2.622	2.680	6.43
124)	sec-butylbenzene	3.269	3.617	3.213	3.174	3.312	3.025	3.708	3.245	3.320	6.90
125)	p-isopropyltoluene	2.838	3.022	2.741	2.665	2.731	2.536	3.029	2.626	2.773	6.45
126)	1,3-dichlorobenzene	1.670	1.707	1.672	1.569	1.630	1.531	1.687	1.443	1.614	5.67
127)	1,4-dichlorobenzene	1.969	1.880	1.764	1.669	1.736	1.576	1.974	1.928	1.812	8.17
128)	1,2-dichlorobenzene	1.718	1.653	1.656	1.521	1.595	1.463	1.723	1.503	1.604	6.20
129)	Benzyl Chloride	1.716	1.783	1.637	1.440	1.511	1.373	1.740	1.540	1.593	9.37
130)	Vinyl Toluene									0.000	-1.00
131)	1,4-Diethylbenzene	1.697	1.870	1.784	1.696	1.774	1.640	1.810	1.901	1.771	5.07
132)	n-butylbenzene	1.324	1.580	1.471	1.426	1.473	1.351	1.552	1.343	1.440	6.71
133)	hexachloroethane	0.516	0.557	0.544	0.521	0.536	0.512	0.541	0.496	0.528	3.77
134)	1,2,4,5-tetramethylbenzene	2.515	2.746	2.803	2.579	2.702	2.529	2.687	2.570	2.670	3.81
135)	1,2-dibromo-3-chloropropane										

	0.160 0.148 0.119 0.129 0.120	0.135	13.46
136)	1,3,5-trichlorobenzene		
	1.339 1.372 1.363 1.276 1.350 1.238 1.414	1.215 1.321	5.29
137)	1,2,4-trichlorobenzene		
	1.318 1.177 1.262 1.138 1.130 1.152 1.218	1.056 1.181	6.98
138)	hexachlorobutadiene		
	0.543 0.664 0.629 0.589 0.606 0.595 0.687	0.526 0.605	9.14
139)	naphthalene		
	2.295 2.568 2.110 2.125 2.174 2.153	2.237	7.81
140)	1,2,3-trichlorobenzene		
	1.115 1.042 1.154 0.995 1.023 1.023 1.058 1.058 0.846	1.035	8.31

 (#) = Out of Range ### Number of calibration levels exceeded format ###

MVS4646.M

Thu Dec 30 15:07:34 2010 RPT1

V100502.CC
Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V100502.D
Acq On : 7 Mar 2010 12:20 am
Sample : CC4196-50
Misc : MS93430,VV4201,5,,,1
MS Integration Params: rteint.p

Vial: 25
Operator: JIANHUAL
Inst : MSV
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MVS4196.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Mar 05 16:59:44 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Tert Butyl Alcohol-d9	1.000	1.000	0.0	100	0.00	7.46
2 I	pentafluorobenzene	1.000	1.000	0.0	113	0.00	9.68
3	Freon 115	0.195	0.168	13.8	102	0.01	3.89
4	Freon 23	0.232	0.189	18.5	94	0.01	3.88
5	Freon 143A	0.117	0.099	15.4	102	0.01	3.91
6	Freon 152A	0.314	0.277	11.8	96	0.00	4.08
7	Freon 114	0.383	0.362	5.5	106	0.01	4.47
8	Freon 142B	0.599	0.538	10.2	96	0.01	4.47
9	Chlorotrifluoroethene	0.395	0.370	6.3	108	0.00	4.14
10	1,3-Butadiene	0.363	0.318	12.4	103	0.00	4.84
11	Vinyl Bromide	0.571	0.517	9.5	98	0.00	5.90
12	Acetaldehyde	0.073	0.059	19.2	102	0.00	4.99
13	Pentane	0.411	0.378	8.0	109	0.01	6.09
14	Freon 123A	0.172	0.161	6.4	98	0.01	6.39
15	Freon 141B	0.716	0.674	5.9	99	0.00	6.40
16	Freon 123	0.168	0.152	9.5	98	0.01	6.48
17 S	dibromofluoromethane (s)	0.590	0.568	3.7	109	0.00	9.74
18 S	1,2-dichloroethane-d4 (s)	0.555	0.530	4.5	109	0.00	10.17
19 I	1,4-difluorobenzene	1.000	1.000	0.0	114	0.00	10.63
20	Ethyl Acrylate	0.258	0.225	12.8	93	0.00	11.02
21 S	toluene-d8 (s)	1.379	1.346	2.4	109	0.00	12.37
22 I	chlorobenzene-d5	1.000	1.000	0.0	113	0.00	14.05
23	Butyl Acrylate	0.375	0.411	-9.6	111	0.00	14.54
24 S	4-bromofluorobenzene (s)	0.569	0.581	-2.1	111	0.00	15.36
25 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	16.67
26	Vinyl Toluene	1.639	1.693	-3.3	104	0.00	16.96

(#) = Out of Range
V100435.D MVS4196.M

SPCC's out = 0 CCC's out = 0
Mon Mar 08 09:48:00 2010 RPT1

Response Factor Report MSV

Method : C:\MSDCHEM\1\METHODS\MVS4196.M (RTE Integrator)
 Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Fri Mar 05 16:59:44 2010
 Response via : Initial Calibration

Calibration Files

1 =V100430.D 10 =V100433.D 100 =V100436.D 50 =V100435.D
 20 =V100434.D 200 =V100437.D 5 =V100432.D 0.5 =V100429.D
 2 =V100431.D 0.2 =V100428.D = =

Compound	1	10	100	50	20	200	5	0.5	2	0.2	Avg	%RSD
1) I Text Butyl Alcohol-d9 -----ISTD-----												
2) I pentafluorobenzene -----ISTD-----												
3) Freon 115	0.235	0.190	0.186	0.168	0.181	0.224		0.183		0.195	12.53	
4) Freon 23	0.239	0.257	0.188	0.227	0.244	0.194	0.257	0.246		0.232	11.50	
5) Freon 143A	0.135	0.116	0.109	0.105	0.102	0.138		0.118		0.117	12.02	
6) Freon 152A	0.311	0.348	0.255	0.325	0.342	0.265	0.346	0.318		0.314	11.39	
7) Freon 114	0.333	0.432	0.336	0.386	0.416	0.335	0.411	0.417		0.383	11.02	
8) Freon 142B	0.661	0.519	0.632	0.681	0.530	0.644		0.527		0.599	11.81	
9) Chlorotrifluoroethene	0.345	0.456	0.345	0.388	0.430	0.358	0.439	0.399		0.395	11.09	
10) 1,3-Butadiene	0.330	0.409	0.404	0.348	0.304	0.376	0.400	0.365	0.372	0.319	0.363	10.10
11) Vinyl Bromide	0.537	0.594	0.654	0.595	0.510	0.588	0.584	0.539	0.539		0.571	7.70
12) Acetaldehyde	0.074	0.060	0.065	0.078		0.085				0.073	13.94	
13) Pentane	0.457	0.437	0.345	0.391	0.429	0.339	0.428	0.460		0.411	11.50	
14) Freon 123A	0.153	0.199	0.143	0.185	0.197	0.156	0.185	0.155		0.172	12.97	
15) Freon 141B	0.653	0.798	0.615	0.772	0.805	0.680	0.763	0.664	0.690		0.716	9.74
16) Freon 123	0.161	0.185	0.132	0.175	0.193	0.142	0.187	0.168		0.168	13.08	
17) dibromofluoromethane (s)	0.584	0.607	0.595	0.589	0.600	0.574	0.604	0.567	0.596	0.583	0.590	2.21
18) 1,2-dichloroethane-d4 (s)	0.554	0.568	0.569	0.550	0.563	0.542	0.568	0.544	0.557	0.532	0.555	2.25
19) I 1,4-difluorobenzene -----ISTD-----												
20) Ethyl Acrylate	0.222	0.338	0.277	0.120	0.339	0.250				0.258	31.98	
21) toluene-d8 (s)	1.380	1.380	1.386	1.407	1.375	1.390	1.363	1.367	1.382	1.360	1.379	1.02
22) I chlorobenzene-d5 -----ISTD-----												
23) Butyl Acrylate	0.251	0.530	0.418	0.268	0.545	0.240				0.375	37.60	
24) 4-bromofluorobenzene (s)	0.560	0.562	0.587	0.590	0.573	0.574	0.568	0.551	0.559	0.561	0.569	2.17
25) I 1,4-dichlorobenzene-d -----ISTD-----												
26) Vinyl Toluene	1.704	1.473	1.780	1.914	1.580	1.592		1.430		1.639	10.48	

(#) = Out of Range ### Number of calibration levels exceeded format ###

MVS4196.M

Thu Dec 30 15:10:17 2010 RPT1

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\1b51716.D
 Acq On : 30 Dec 2010 10:47 am
 Sample : cc2336-10
 Misc : MS6739.V1B2366.W....1
 MS Integration Params: rteint.p

Vial: 2
 Operator: mohui
 Inst : MS1B
 Multiplr: 1.00

Method : C:\msdchem\1\METHODS\M1B2336.M (RTE Integrator)
 Title : method 524, zb624 60mx0.25mmx1.4um
 Last Update : Thu Dec 09 09:30:59 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	93	-0.03	7.83
2 M	TERTIARY BUTYL ALCOHOL	1.222	1.220	0.2	94	-0.02	7.97
3 m	1,4-Dioxane	0.086	0.096	-11.6	97	0.00	12.11
4 I	FLUOROBENZENE	1.000	1.000	0.0	95	-0.02	11.27
5 S	4-BROMOFLUOROBENZENE (S)	0.357	0.371	-3.9	98	-0.01	16.01
6 S	1,2-DICHLOROENZENE-d4 (S)	0.361	0.396	-9.7	105	-0.01	17.70
7 M	DICHLORODIFLUOROMETHANE	0.372	0.367	1.3	87	0.00	4.03
8 M	CHLOROMETHANE	0.486	0.441	9.3	87	-0.02	4.36
9 M	VINYL CHLORIDE	0.381	0.363	4.7	85	-0.03	4.65
10 M	BROMOMETHANE	0.248	0.234	5.6	89	-0.01	5.38
11 M	CHLOROETHANE	0.228	0.225	1.3	91	-0.01	5.59
12 M	TRICHLOROFLUOROMETHANE	0.347	0.364	-4.9	92	-0.02	6.16
13 M	ETHYL ETHER	0.208	0.185	11.1	81	-0.01	6.63
14 M	ACROLEIN	0.081	0.087	-7.4	103	-0.01	6.84
15 M	1,1-DICHLOROETHYLENE	0.243	0.231	4.9	87	-0.02	7.10
16 M	FREON 113	0.145	0.158	-9.0	95	-0.02	7.10
17 M	ACETONE	0.031	0.031	0.0	88	0.00	7.10
18 M	IODOMETHANE	0.387	0.399	-3.1	93	-0.02	7.38
19 M	CARBON DISULFIDE	0.899	0.888	1.2	86	-0.02	7.56
----- True Calc. % Drift -----							
20 M	METHYL ACETATE	10.000	11.323	-13.2	111	0.00	7.67
----- AvgRF CCRF % Dev -----							
21 M	ALLYL CHLORIDE	0.160	0.157	1.9	86	-0.01	7.68
22 M	METHYLENE CHLORIDE	0.351	0.308	12.3	81	-0.01	7.89
23 M	ACRYLONITRILE	0.145	0.149	-2.8	93	-0.01	8.20
24 M	METHYL TERT BUTYL ETHER	0.958	0.966	-0.8	93	-0.02	8.32
25 M	trans-1,2-DICHLOROETHYLEN	0.389	0.368	5.4	82	-0.01	8.35
26 M	HEXANE	0.278	0.276	0.7	83	-0.01	8.76
27 M	1,1-DICHLOROETHANE	0.489	0.488	0.2	88	-0.02	8.96
28 M	DI-ISOPROPYL ETHER	1.004	0.897	10.7	86	-0.01	9.01
29 M	ETHYL TERT-BUTYL ETHER	0.996	0.949	4.7	90	-0.02	9.53
30 M	2-BUTANONE	0.038	0.040	-5.3	92	0.00	9.72
31 M	2,2-DICHLOROPROPANE	0.384	0.398	-3.6	95	-0.01	9.81
32 M	cis-1,2-DICHLOROETHYLENE	0.317	0.318	-0.3	95	-0.01	9.79
33 M	PROPIONITRILE	0.058	0.060	-3.4	94	0.00	9.77
34 M	METHYLACRYLATE	0.301	0.302	-0.3	89	0.00	9.87
35 M	METHACRYLONITRILE	0.207	0.216	-4.3	95	-0.01	10.01
36 M	BROMOCHLOROMETHANE	0.138	0.154	-11.6	98	-0.01	10.12
37 M	CHLOROFORM	0.475	0.480	-1.1	94	-0.02	10.18
38 M	TETRAHYDROFURAN	0.152	0.140	7.9	99	0.00	10.19
39 M	1,1,1-TRICHLOROETHANE	0.367	0.392	-6.8	93	-0.01	10.49
40 M	CYCLOHEXANE	0.389	0.363	6.7	80	-0.01	10.61
41 M	1-CHLOROBUTANE	1.013	0.952	6.0	81	-0.02	10.52
42 M	1,1-DICHLOROPROPENE	0.349	0.353	-1.1	86	0.00	10.70
43 M	CARBON TETRACHLORIDE	0.298	0.330	-10.7	94	0.00	10.74
44 M	1,2-DICHLOROETHANE	0.364	0.402	-10.4	98	-0.02	10.93
45 M	BENZENE	1.091	1.098	-0.6	89	-0.02	10.95
46 M	TERT AMYL METHYL ETHER	0.983	0.917	6.7	92	-0.01	11.03
47 M	TRICHLOROETHYLENE	0.257	0.265	-3.1	90	-0.01	11.74
48 M	METHYLCYCLOHEXANE	0.393	0.400	-1.8	87	-0.01	12.01
49 M	METHYL METHACRYLATE	0.333	0.319	4.2	86	-0.01	12.01
50 M	1,2-DICHLOROPROPANE	0.299	0.303	-1.3	90	-0.01	11.98
51 M	DIBROMOMETHANE	0.175	0.193	-10.3	98	-0.01	12.14
52 M	BROMODICHLOROMETHANE	0.358	0.377	-5.3	95	-0.01	12.29
53 M	CHLOROACETONITRILE	0.021	0.025	-19.0	108	0.00	12.44
54 M	2-NITROPROPANE	0.090	0.096	-6.7	102	-0.01	12.47
55 M	2-CHLOROETHYL VINYL ETHER	0.226	0.215	4.9	89	-0.01	12.55
56 M	cis-1,3-DICHLOROPROPENE	0.469	0.495	-5.5	94	-0.01	12.79
57 M	4-METHYL-2-PENTANONE	0.149	0.140	6.0	88	-0.01	12.88

58 M	1,1-DICHLOROPROPANONE	0.113	0.121	-7.1	96	0.00	12.98
59 M	TOLUENE	0.642	0.662	-3.1	90	-0.01	13.21
60 M	trans-1,3-DICHLOROPROPENE	0.444	0.471	-6.1	95	0.00	13.39
61 M	ETHYL METHACRYLATE	0.438	0.416	5.0	86	-0.01	13.40
62 M	1,1,2-TRICHLOROETHANE	0.231	0.246	-6.5	97	-0.01	13.61
63 M	1,3-DICHLOROPROPANE	0.461	0.496	-7.6	97	-0.01	13.81
64 M	2-HEXANONE	0.143	0.137	4.2	90	-0.01	13.80
65 M	TETRACHLOROETHYLENE	0.254	0.275	-8.3	93	-0.01	13.87
66 M	DIBROMOCHLOROMETHANE	0.273	0.309	-13.2	101	-0.01	14.11
67 M	1,2-DIBROMOETHANE	0.264	0.291	-10.2	98	-0.01	14.27
68 M	CHLOROBENZENE	0.711	0.772	-8.6	97	-0.01	14.80
69 M	1,1,1,2-TETRACHLOROETHANE	0.262	0.294	-12.2	102	-0.01	14.86
70 M	ETHYLBENZENE	1.261	1.292	-2.5	91	-0.01	14.87
71 M	m,p-XYLENE	0.479	0.516	-7.7	96	-0.01	14.98
72 M	o-XYLENE	0.481	0.525	-9.1	97	-0.01	15.44
73 M	STYRENE	0.821	0.832	-1.3	90	-0.01	15.44
74 M	BROMOFORM	0.207	0.228	-10.1	101	0.00	15.71
75 M	ISOPROPYLBENZENE	1.259	1.352	-7.4	94	-0.01	15.81
76 M	BROMOBENZENE	0.303	0.342	-12.9	103	-0.01	16.23
77 M	1,1,2,2-TETRACHLOROETHANE	0.436	0.464	-6.4	99	-0.01	16.09
78 M	TRANS-1,4-DICHLORO-2-BUTE	0.114	0.128	-12.3	104	-0.01	16.13
79 M	1,2,3-TRICHLOROPROPANE	0.119	0.134	-12.6	104	-0.01	16.17
80 M	n-PROPYLBENZENE	1.533	1.591	-3.8	93	-0.01	16.25
81 M	O-CHLOROTOLUENE	0.298	0.329	-10.4	100	-0.01	16.41
82 M	1,3,5-TRIMETHYLBENZENE	1.084	1.173	-8.2	96	0.00	16.41
83 M	P-CHLOROTOLUENE	0.977	1.031	-5.5	96	-0.01	16.51
84 M	tert-BUTYLBENZENE	0.915	1.015	-10.9	99	-0.01	16.79
85 M	1,2,4-TRIMETHYLBENZENE	1.129	1.214	-7.5	97	-0.01	16.83
86 M	PENTACHLOROETHANE	0.191	0.227	-18.8	108	0.00	16.87
87 M	sec-BUTYLBENZENE	1.413	1.539	-8.9	96	-0.01	17.02
88 M	p-ISOPROPYLTOLUENE	1.148	1.298	-13.1	100	-0.01	17.14
89 M	M-DICHLOROBENZENE	0.608	0.694	-14.1	104	0.00	17.22
90 M	P-DICHLOROBENZENE	0.633	0.721	-13.9	103	-0.01	17.30
91 M	n-BUTYLBENZENE	0.627	0.695	-10.8	97	-0.01	17.58
92 M	O-DICHLOROBENZENE	0.624	0.719	-15.2	105	0.00	17.72
93 M	HEXACHLOROETHANE	0.169	0.199	-17.8	102	-0.01	18.03
94 M	1,2-DIBROMO-3-CHLOROPROPA	0.076	0.084	-10.5	101	-0.01	18.51
95 M	NITROBENZENE	0.040	0.057	-42.5#	135	0.00	18.72
96 M	1,2,4-TRICHLOROBENZENE	0.477	0.512	-7.3	96	-0.01	19.41
97 M	HEXACHLOROBUTADIENE	0.222	0.229	-3.2	91	-0.01	19.55
98 M	NAPHTHALENE	1.425	1.470	-3.2	93	-0.01	19.70
99 M	1,2,3-TRICHLOROBENZENE	0.465	0.502	-8.0	97	0.00	19.97

(#) = Out of Range
1b51066.D M1B2336.M

SPCC's out = 0 CCC's out = 0
Thu Dec 30 14:32:15 2010 MS1B

Response Factor Report MS1B

Method : C:\msdchem\1\METHODS\M1B2336.M (RTE Integrator)
 Title : method 524, zb624 60mmx0.25mmx1.4um
 Last Update : Thu Dec 09 09:30:59 2010
 Response via : Initial Calibration

Calibration Files

5 =1b51065.D 10 =1b51066.D 1 =1b51063.D 20 =1b51067.D
 40 =1b51068.D 2 =1b51064.D 0.5 =1b51062.D =

Compound	5	10	1	20	40	2	0.5	Avg	%RSD
1) I Tert Butyl Alcohol-d9 -----ISTD-----									
2) TERTIARY BUT 1.226 1.201 1.157 1.236 1.202 1.191 1.342								1.222	4.81
3) 1,4-Dioxane 0.082 0.091 0.077 0.095 0.091 0.079								0.086	8.83
4) I FLUOROBENZENE -----ISTD-----									
5) 4-BROMOFLUOR 0.357 0.357 0.356 0.357 0.357 0.360 0.356								0.357	0.43
6) 1,2-DICHLORO 0.364 0.357 0.359 0.361 0.361 0.363 0.363								0.361	0.70
7) DICHLORODIFL 0.448 0.398 0.407 0.305 0.352 0.322								0.372	14.76
8) CHLOROMETHAN 0.510 0.480 0.523 0.414 0.471 0.499 0.505								0.486	7.48
9) VINYL CHLORI 0.436 0.408 0.390 0.344 0.397 0.374 0.321								0.381	10.20
10) BROMOMETHANE 0.263 0.249 0.262 0.214 0.246 0.255 0.246								0.248	6.66
11) CHLOROETHANE 0.250 0.234 0.241 0.200 0.229 0.231 0.209								0.228	7.67
12) TRICHLOROFLU 0.414 0.376 0.349 0.291 0.344 0.306								0.347	12.98
13) ETHYL ETHER 0.210 0.216 0.219 0.200 0.193 0.224 0.191								0.208	6.28
14) ACROLEIN 0.081 0.080 0.086 0.073 0.080 0.089								0.081	6.83
15) 1,1-DICHLORO 0.255 0.252 0.243 0.226 0.223 0.245 0.257								0.243	5.72
16) FREON 113 0.179 0.158 0.116 0.136 0.143 0.139								0.145	14.79
17) ACETONE 0.030 0.033 0.026 0.033 0.031 0.030								0.031	8.34
18) IODOMETHANE 0.405 0.408 0.372 0.384 0.376 0.392 0.372								0.387	3.84
19) CARBON DISUL 0.969 0.976 0.854 0.884 0.880 0.911 0.822								0.899	6.35
20) METHYL ACETA 0.057 0.059 0.027 0.064 0.063 0.050								0.053	26.32
----- Linear regression ----- Coefficient = 0.9997									
Response Ratio = -0.00633 + 0.06392 *A									
21) ALLYL CHLORI 0.174 0.173 0.160 0.154 0.151 0.166 0.142								0.160	7.47
22) METHYLENE CH 0.353 0.360 0.353 0.333 0.328 0.347 0.382								0.351	5.07
23) ACRYLONITRIL 0.149 0.152 0.138 0.153 0.144 0.150 0.129								0.145	5.85
24) METHYL TERT 0.961 0.980 0.951 0.948 0.925 0.962 0.981								0.958	2.04
25) trans-1,2-DI 0.415 0.426 0.366 0.385 0.373 0.385 0.373								0.389	5.91
26) HEXANE 0.351 0.314 0.275 0.266 0.266 0.287 0.187								0.278	18.22
27) 1,1-DICHLORO 0.521 0.527 0.479 0.484 0.468 0.497 0.449								0.489	5.70
28) DI-ISOPROPYL 1.041 0.991 1.055 0.965 0.951 0.968 1.058								1.004	4.60
29) ETHYL TERT-B 1.047 0.996 0.967 1.000 0.987 0.965 1.014								0.996	2.86
30) 2-BUTANONE 0.038 0.042 0.030 0.043 0.040 0.037								0.038	11.64
31) 2,2-DICHLORO 0.405 0.397 0.387 0.356 0.341 0.391 0.413								0.384	6.89
32) cis-1,2-DICH 0.310 0.316 0.346 0.291 0.280 0.310 0.367								0.317	9.56
33) PROPIONITRIL 0.057 0.060 0.058 0.062 0.058 0.059 0.054								0.058	3.90
34) METHYLACRYLA 0.304 0.320 0.249 0.330 0.319 0.284								0.301	9.96
35) METHACRYLONI 0.205 0.216 0.176 0.220 0.211 0.197 0.226								0.207	8.16
36) BROMOCHLOROM 0.142 0.149 0.137 0.141 0.136 0.133 0.125								0.138	5.57
37) CHLOROFORM 0.484 0.486 0.481 0.459 0.441 0.460 0.514								0.475	5.01
38) TETRAHYDROFU 0.161 0.134 0.158 0.144 0.130 0.186								0.152	13.60
39) 1,1,1-TRICHL 0.398 0.401 0.345 0.362 0.353 0.376 0.335								0.367	6.97
40) CYCLOHEXANE 0.446 0.432 0.383 0.375 0.372 0.399 0.319								0.389	10.80
41) 1-CHLOROBUTA 1.122 1.117 0.954 0.991 0.964 1.055 0.887								1.013	8.70
42) 1,1-DICHLORO 0.380 0.387 0.322 0.351 0.338 0.356 0.304								0.349	8.57
43) CARBON TETRA 0.325 0.332 0.278 0.299 0.292 0.304 0.258								0.298	8.55
44) 1,2-DICHLORO 0.379 0.390 0.346 0.378 0.365 0.362 0.325								0.364	6.08
45) BENZENE 1.137 1.168 1.044 1.078 1.046 1.098 1.068								1.091	4.28
46) TERT AMYL ME 1.034 0.942 0.931 0.946 0.937 0.948 1.141								0.983	7.95
47) TRICHLOROETH 0.273 0.279 0.240 0.259 0.251 0.258 0.242								0.257	5.73
48) METHYLCYCLOH 0.487 0.434 0.380 0.381 0.392 0.401 0.273								0.393	16.53
49) METHYL METHA 0.349 0.353 0.308 0.343 0.335 0.338 0.302								0.333	6.01
50) 1,2-DICHLORO 0.306 0.320 0.279 0.303 0.295 0.303 0.286								0.299	4.60
51) DIBROMOMETHA 0.180 0.187 0.162 0.181 0.176 0.171 0.166								0.175	4.97
52) BROMODICHLOR 0.363 0.375 0.349 0.359 0.354 0.349 0.357								0.358	2.54
53) CHLOROACETON 0.020 0.022 0.019 0.022 0.021 0.022 0.018								0.021	8.17
54) 2-NITROPROPA 0.082 0.088 0.099 0.090 0.085 0.096								0.090	7.40
55) 2-CHLOROETHY 0.234 0.230 0.213 0.236 0.228 0.224 0.218								0.226	3.75
56) cis-1,3-DICH 0.479 0.500 0.450 0.475 0.463 0.458 0.456								0.469	3.66
57) 4-METHYL-2-P 0.143 0.152 0.141 0.151 0.140 0.153 0.159								0.149	4.64
58) 1,1-DICHLORO 0.101 0.119 0.095 0.128 0.124 0.108								0.113	11.77
59) TOLUENE 0.666 0.698 0.585 0.642 0.626 0.636 0.641								0.642	5.44
60) trans-1,3-DI 0.451 0.468 0.431 0.449 0.442 0.438 0.433								0.444	2.87
61) ETHYL METHAC 0.426 0.458 0.421 0.442 0.428 0.434 0.454								0.438	3.20
62) 1,1,2-TRICHL 0.231 0.241 0.215 0.230 0.224 0.234 0.241								0.231	3.99

63)	1,3-DICHLORO	0.462	0.484	0.444	0.464	0.453	0.457	0.462	0.461	2.69
64)	2-HEXANONE	0.135	0.145	0.139	0.146	0.136	0.151	0.151	0.143	4.63
65)	TETRACHLOROE	0.272	0.279	0.234	0.255	0.247	0.258	0.231	0.254	7.15
66)	DIBROMOCHLOR	0.272	0.289	0.266	0.277	0.275	0.271	0.259	0.273	3.44
67)	1,2-DIBROMOE	0.265	0.281	0.254	0.275	0.269	0.260	0.247	0.264	4.49
68)	CHLOROENZEN	0.721	0.755	0.684	0.704	0.694	0.704	0.716	0.711	3.25
69)	1,1,1,2-TETR	0.272	0.274	0.256	0.259	0.257	0.261	0.258	0.262	2.76
70)	ETHYLBENZENE	1.317	1.353	1.187	1.258	1.223	1.255	1.234	1.261	4.49
71)	m,p-XYLENE	0.500	0.511	0.457	0.476	0.464	0.479	0.467	0.479	4.10
72)	o-XYLENE	0.504	0.515	0.465	0.479	0.473	0.480	0.450	0.481	4.64
73)	STYRENE	0.838	0.880	0.777	0.822	0.816	0.820	0.798	0.821	3.92
74)	BROMOFORM	0.199	0.214	0.198	0.208	0.205	0.207	0.216	0.207	3.31
75)	ISOPROPYLBEN	1.325	1.360	1.170	1.254	1.229	1.273	1.203	1.259	5.32
76)	BROMOBENZENE	0.310	0.316	0.294	0.304	0.296	0.306	0.297	0.303	2.69
77)	1,1,2,2-TETR	0.417	0.443	0.436	0.428	0.413	0.466	0.453	0.436	4.43
78)	TRANS-1,4-DI	0.111	0.117	0.109	0.116	0.111	0.121	0.112	0.114	3.76
79)	1,2,3-TRICHL	0.117	0.122	0.115	0.120	0.114	0.131	0.117	0.119	4.75
80)	n-PROPYLBENZ	1.596	1.630	1.471	1.516	1.481	1.552	1.485	1.533	4.02
81)	O-CHLOROTOLU	0.304	0.310	0.282	0.290	0.284	0.303	0.312	0.298	4.18
82)	1,3,5-TRIMET	1.124	1.158	1.030	1.075	1.072	1.100	1.028	1.084	4.38
83)	P-CHLOROTOLU	0.997	1.015	0.962	0.947	0.923	0.990	1.005	0.977	3.45
84)	tert-BUTYLBE	0.940	0.975	0.851	0.920	0.910	0.924	0.884	0.915	4.35
85)	1,2,4-TRIMET	1.154	1.189	1.068	1.111	1.096	1.150	1.132	1.129	3.59
86)	PENTACHLOROE	0.187	0.199	0.176	0.191	0.195	0.198	0.188	0.191	4.11
87)	sec-BUTYLBEN	1.490	1.526	1.302	1.406	1.388	1.433	1.342	1.413	5.56
88)	p-ISOPROPYLT	1.194	1.231	1.074	1.138	1.136	1.171	1.090	1.148	4.86
89)	M-DICHLOROB	0.621	0.634	0.603	0.594	0.585	0.614	0.608	0.608	2.69
90)	P-DICHLOROB	0.638	0.666	0.604	0.617	0.608	0.656	0.642	0.633	3.79
91)	n-BUTYLBENZE	0.662	0.682	0.590	0.629	0.620	0.640	0.568	0.627	6.26
92)	O-DICHLOROB	0.619	0.648	0.612	0.606	0.596	0.644	0.642	0.624	3.30
93)	HEXACHLOROET	0.173	0.185	0.149	0.174	0.177	0.168	0.156	0.169	7.33
94)	1,2-DIBROMO-	0.074	0.079	0.076	0.077	0.075	0.079	0.073	0.076	3.26
95)	NITROBENZENE	0.037	0.040	0.035	0.043	0.044	0.041	0.042	0.040	7.86
96)	1,2,4-TRICHL	0.471	0.504	0.447	0.478	0.479	0.497	0.464	0.477	4.02
97)	HEXACHLOROB	0.235	0.239	0.206	0.220	0.220	0.217	0.218	0.222	4.95
98)	NAPHTHALENE	1.388	1.500	1.281	1.467	1.448	1.547	1.346	1.425	6.49
99)	1,2,3-TRICHL	0.455	0.491	0.438	0.471	0.470	0.485	0.441	0.465	4.41

(#) = Out of Range ### Number of calibration levels exceeded format ###

M1B2336.M

Thu Dec 30 15:11:50 2010 MS1B

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Wed Dec 22 16:55:19 2010
 Response via : Initial Calibration
 Total Cpnds : 20

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1 I	tert butyl alcohol-d9	65	7.37	1.000	A	1	A	B
2 I	pentafluorobenzene	168	10.05	1.000	A	2	A	L
3	Freon 142B	65	3.90	0.388	A	3	A	B
4	methyl acrylate	85	9.48	0.943	A	2	A	B
5	1-Chlorobutane	56	10.26	1.021	A	3	A	B
6 S	dibromofluoromethane (s)	113	10.12	1.006	A	2	A	B
7 S	1,2-dichloroethane-d4 (s)	65	10.65	1.059	A	2	A	B
8 I	1,4-difluorobenzene	114	11.23	1.000	A	2	A	B
9	n-butyl alcohol	56	11.43	1.018	A	2	A	B
10	Ethyl Acrylate	55	11.64	1.037	A	3	A	B
11	2-nitropropane	46	12.73	1.134	L	3	A	B
12	cis-1,3-dichloropropene	75	13.04	1.161	A	2	A	B
13 S	toluene-d8 (s)	98	13.41	1.194	A	2	A	B
14	trans-1,3-dichloropropene	75	13.80	1.230	A	2	A	B
15 I	chlorobenzene-d5	117	15.44	1.000	A	2	A	B
16	cyclohexanone	55	16.89	1.094	A	2	A	B
17 I	1,4-dichlorobenzene-d4	152	18.21	1.000	A	2	A	B
18 S	4-bromofluorobenzene (s)	95	16.93	0.930	A	2	A	B
19	Vinyl toluene	118	18.49	1.015	A	3	A	B
20	Bis(chloromethyl)ether	79	0.00	0.000	A	3	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
 #Qual = number of qualifiers
 A/H = Area or Height
 ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

MX4516B.M

Thu Dec 30 13:04:33 2010

MSX

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108264T.D Vial: 14
 Acq On : 23 Oct 2010 9:22 pm Operator: JUNTAEP
 Sample : ja58750-1T Inst : MSX
 Misc : MS3476,vx4575,11.7,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Dec 21 11:16:37 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Tue Dec 21 11:12:13 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
2) pentafluorobenzene	10.03	168	207104	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	273695	50.00	ug/L	-0.03
13) chlorobenzene-d5	15.42	117	253230	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	124839	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.10	113	81685	46.15	ug/L	-0.02
Spiked Amount	50.000	Range 67 - 127	Recovery	=	92.30%	
6) 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%	
11) toluene-d8 (s)	13.39	98	320175	53.66	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	107.32%	
16) 4-bromofluorobenzene (s)	16.91	95	132624	54.11	ug/L	-0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	108.22%	

Target Compounds

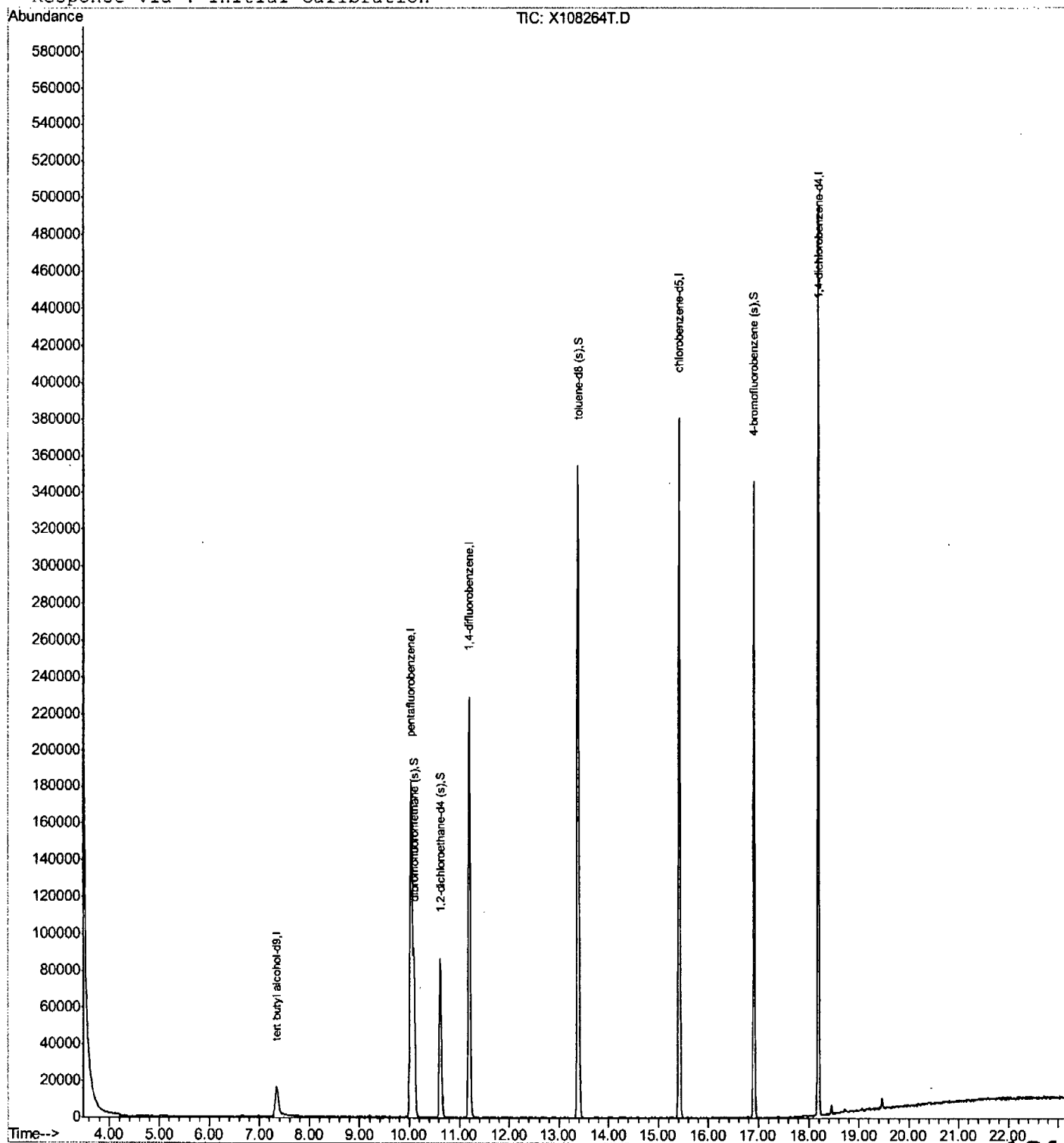
Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108264T.D
Acq On : 23 Oct 2010 9:22 pm
Sample : ja58750-1T
Misc : MS3476,vx4575,11.7,,,,1
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:19 2010

Vial: 14
Operator: JUNTAEP
Inst : MSX
Multiplr: 1.00

Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108265T.D Vial: 15
Acq On : 23 Oct 2010 9:52 pm Operator: JUNTAEP
Sample : ja58750-2T Inst : MSX
Misc : MS3476,vx4575,11.2,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:16:38 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 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
2) pentafluorobenzene	10.04	168	209862	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	276434	50.00	ug/L	-0.03
13) chlorobenzene-d5	15.42	117	247507	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	112272	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.10	113	85073	47.43	ug/L	-0.02
Spiked Amount	50.000	Range 67 - 127	Recovery	=	94.86%	
6) 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%	
11) toluene-d8 (s)	13.39	98	320292	53.15	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	106.30%	
16) 4-bromofluorobenzene (s)	16.91	95	126045	57.18	ug/L	-0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	114.36%	

Target Compounds

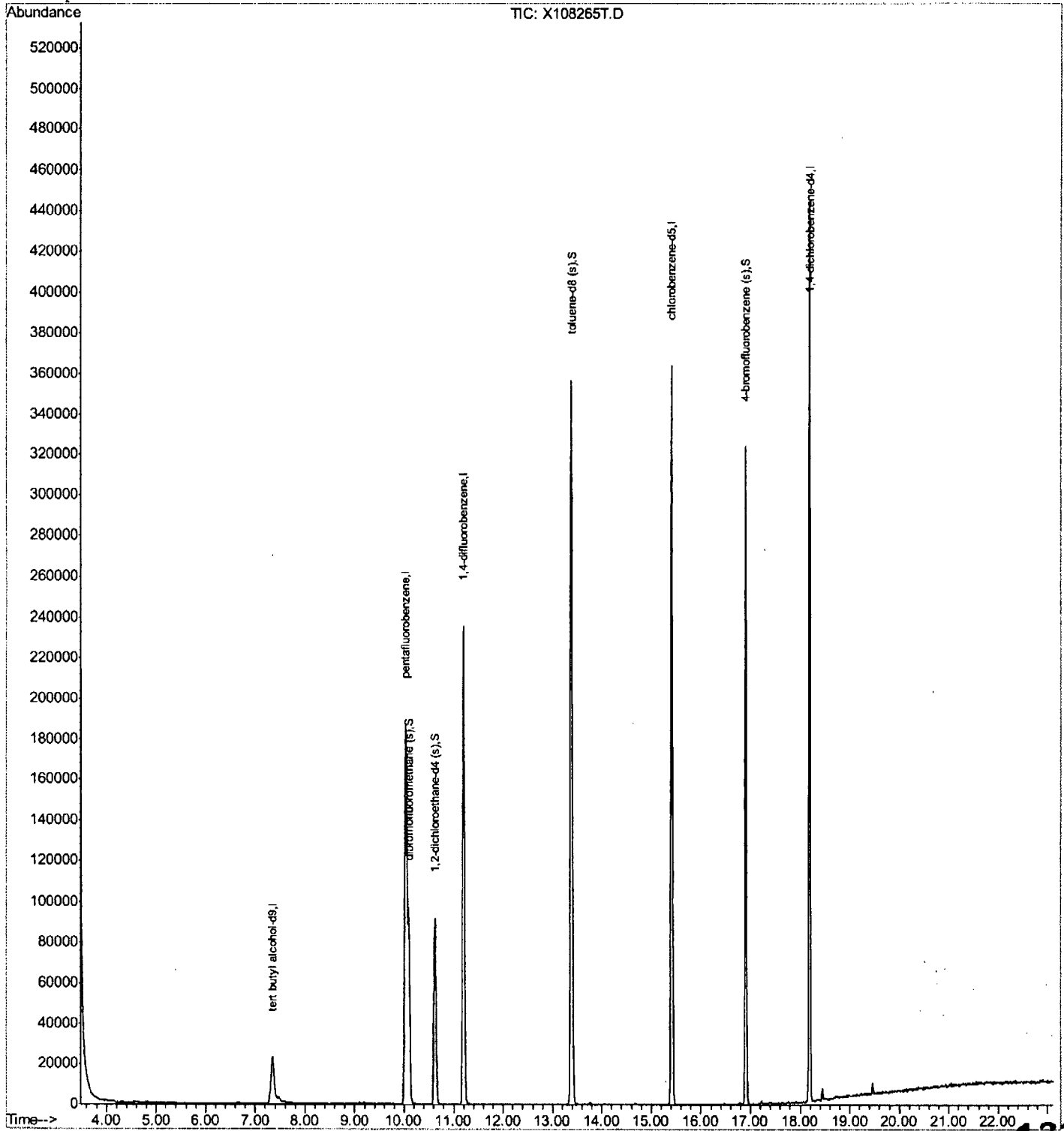
Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108265T.D
Acq On : 23 Oct 2010 9:52 pm
Sample : ja58750-2T
Misc : MS3476,vx4575,11.2,,,,1
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:19 2010

Vial: 15
Operator: JUNTAEP
Inst : MSX
Multiplr: 1.00

Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108266T.D Vial: 16
Acq On : 23 Oct 2010 10:21 pm Operator: JUNTAEP
Sample : ja58750-3T Inst : MSX
Misc : MS3476,vx4575,11.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:16:39 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 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
2) pentafluorobenzene	10.03	168	213879	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	284576	50.00	ug/L	-0.03
13) chlorobenzene-d5	15.42	117	263970	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	116762	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.10	113	83846	45.87	ug/L	-0.02
Spiked Amount	50.000	Range 67 - 127	Recovery	=	91.74%	
6) 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%	
11) toluene-d8 (s)	13.39	98	335340	54.05	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	108.10%	
16) 4-bromofluorobenzene (s)	16.91	95	132671	57.87	ug/L	-0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	115.74%	

Target Compounds

Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108266T.D

Vial: 16

Acq On : 23 Oct 2010 10:21 pm

Operator: JUNTAEP

Sample : ja58750-3T

Inst : MSX

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

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Dec 21 11:19 2010

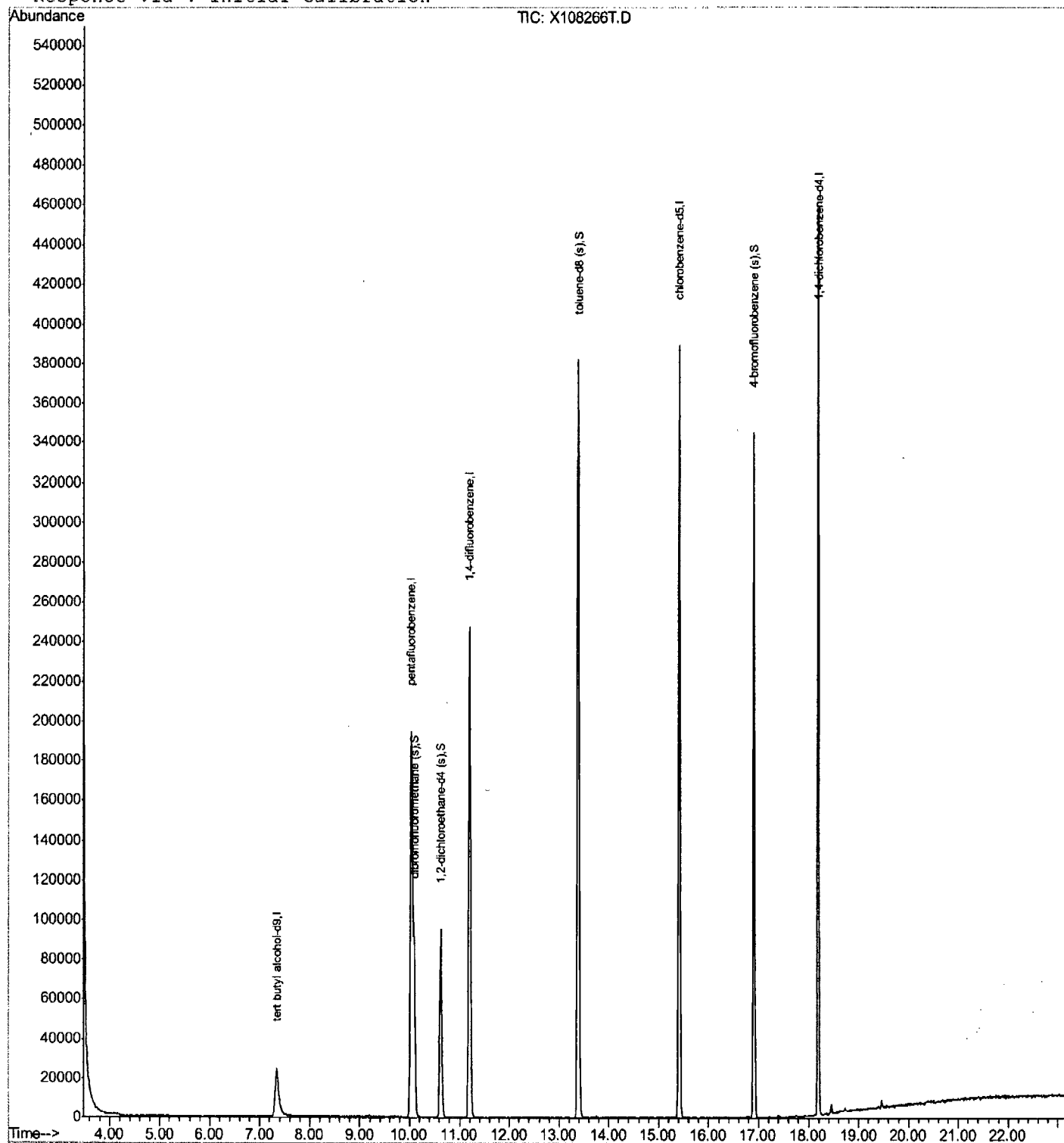
Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)

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

Last Update : Tue Dec 21 11:12:13 2010

Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108267T.D Vial: 17
 Acq On : 23 Oct 2010 10:50 pm Operator: JUNTAEP
 Sample : ja58750-4T Inst : MSX
 Misc : MS3476,vx4575,10.4,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Dec 21 11:16:41 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Tue Dec 21 11:12:13 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
2) pentafluorobenzene	10.03	168	206297	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	273212	50.00	ug/L	-0.03
13) chlorobenzene-d5	15.42	117	232279	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	76740	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.09	113	82845	46.99	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	93.98%	
6) 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%	
11) toluene-d8 (s)	13.39	98	316806	53.19	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	106.38%	
16) 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

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108267T.D

Vial: 17

Acq On : 23 Oct 2010 10:50 pm

Operator: JUNTAEP

Sample : ja58750-4T

Inst : MSX

Misc : MS3476,vx4575,10.4,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Dec 21 11:19 2010

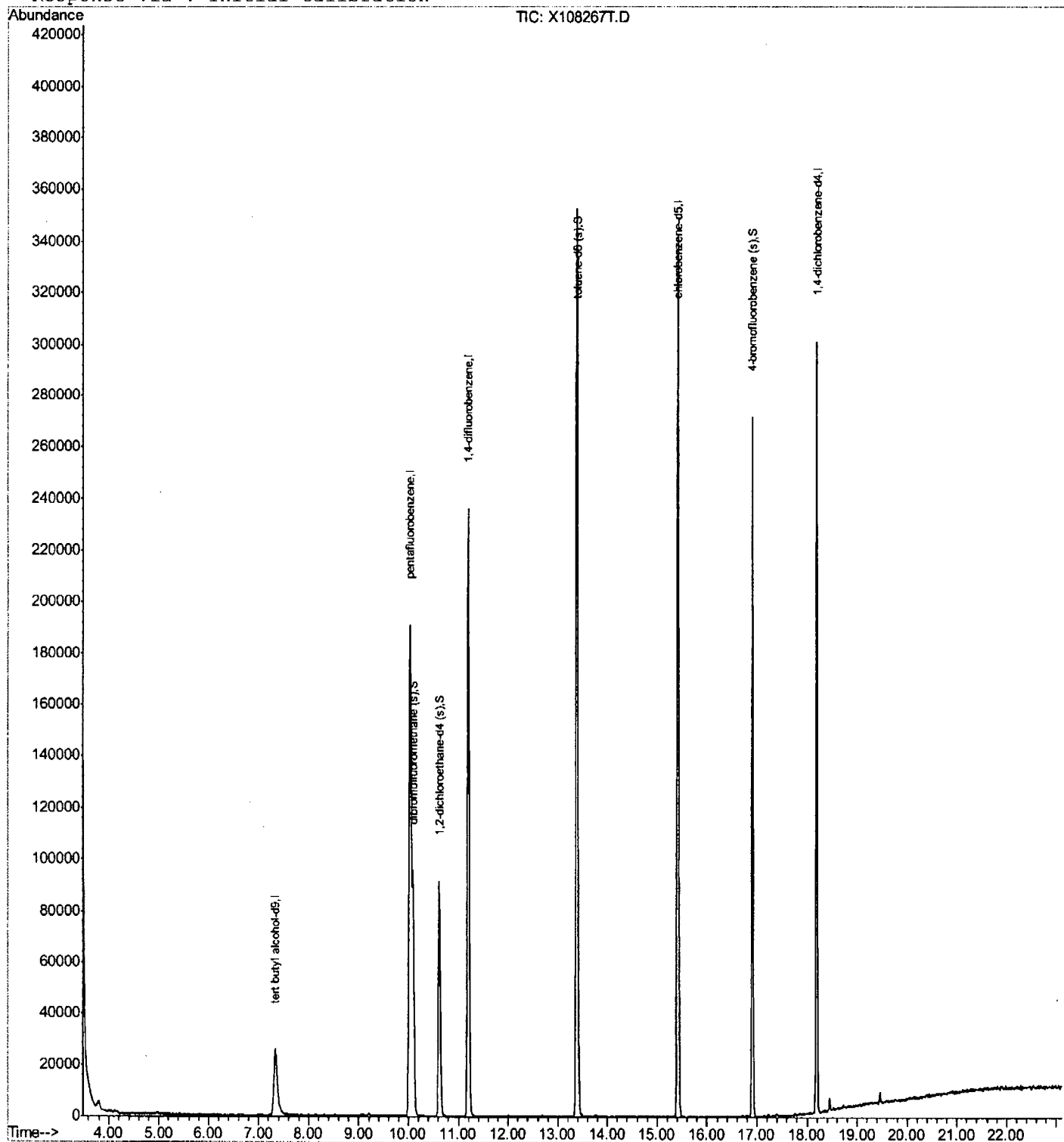
Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)

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

Last Update : Tue Dec 21 11:12:13 2010

Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108268T.D Vial: 18
 Acq On : 23 Oct 2010 11:20 pm Operator: JUNTAEF
 Sample : ja58750-5T Inst : MSX
 Misc : MS3476,vx4575,11.6,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Dec 21 11:16:42 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Tue Dec 21 11:12:13 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
2) pentafluorobenzene	10.03	168	209597	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	278148	50.00	ug/L	-0.02
13) chlorobenzene-d5	15.42	117	252391	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	109348	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.09	113	81205	45.33	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	90.66%	
6) 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%	
11) toluene-d8 (s)	13.39	98	326652	53.87	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	107.74%	
16) 4-bromofluorobenzene (s)	16.91	95	126020	58.70	ug/L	-0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	117.40%	

Target Compounds

Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108268T.D

Vial: 18

Acq On : 23 Oct 2010 11:20 pm

Operator: JUNTAEP

Sample : ja58750-5T

Inst : MSX

Misc : MS3476,vx4575,11.6,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Dec 21 11:19 2010

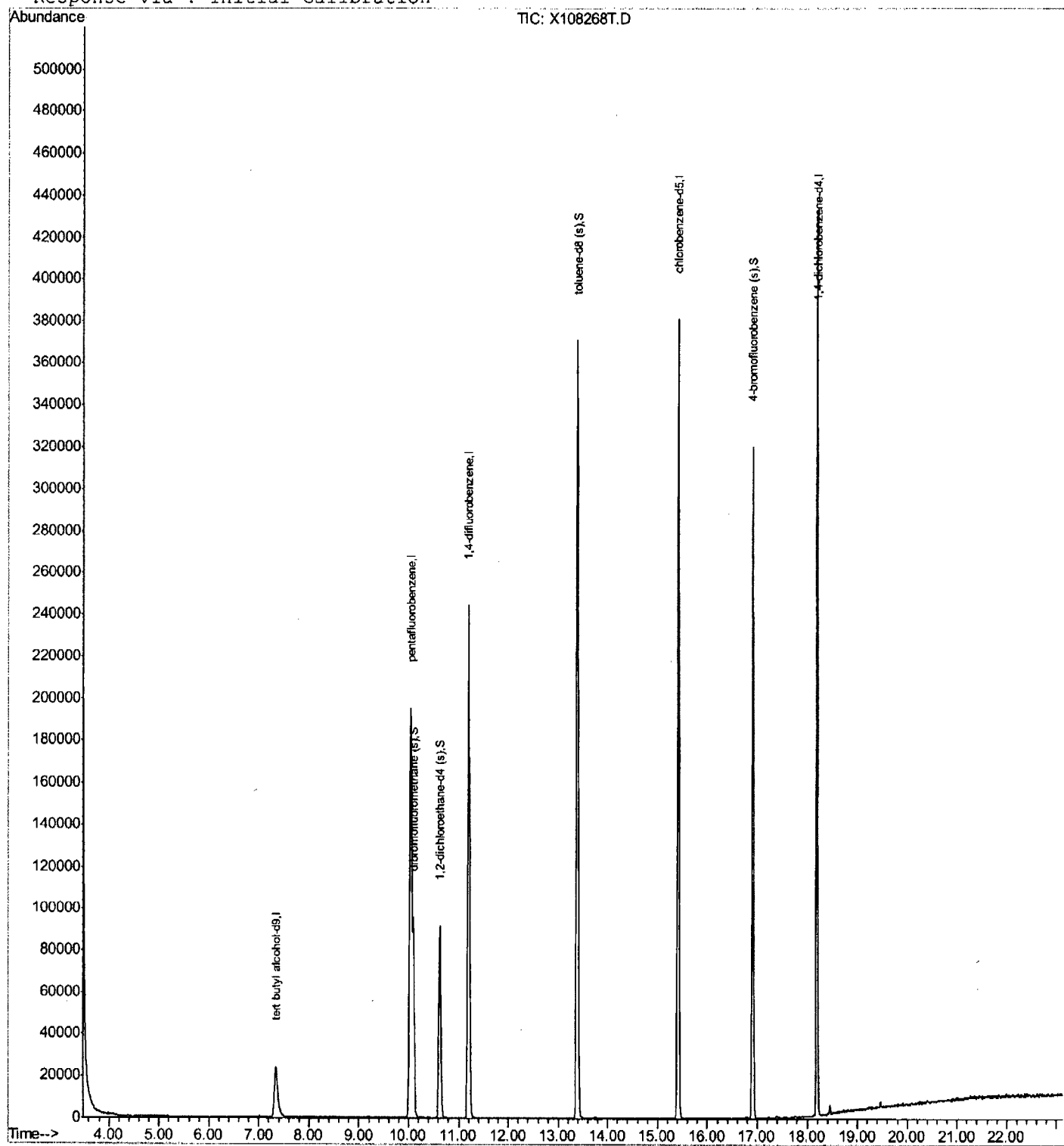
Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)

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

Last Update : Tue Dec 21 11:12:13 2010

Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108269T.D Vial: 19
 Acq On : 23 Oct 2010 11:48 pm Operator: JUNTAEP
 Sample : ja58750-6T Inst : MSX
 Misc : MS3476,vx4575,10.5,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Dec 21 11:16:43 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Tue Dec 21 11:12:13 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	-0.01
2) pentafluorobenzene	10.04	168	202170	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	268382	50.00	ug/L	-0.03
13) chlorobenzene-d5	15.42	117	245960	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	112386	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.10	113	80602	46.65	ug/L	-0.02
Spiked Amount	50.000	Range 67 - 127	Recovery	=	93.30%	
6) 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%	
11) toluene-d8 (s)	13.39	98	314203	53.70	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	107.40%	
16) 4-bromofluorobenzene (s)	16.91	95	125054	56.67	ug/L	-0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	113.34%	

Target Compounds

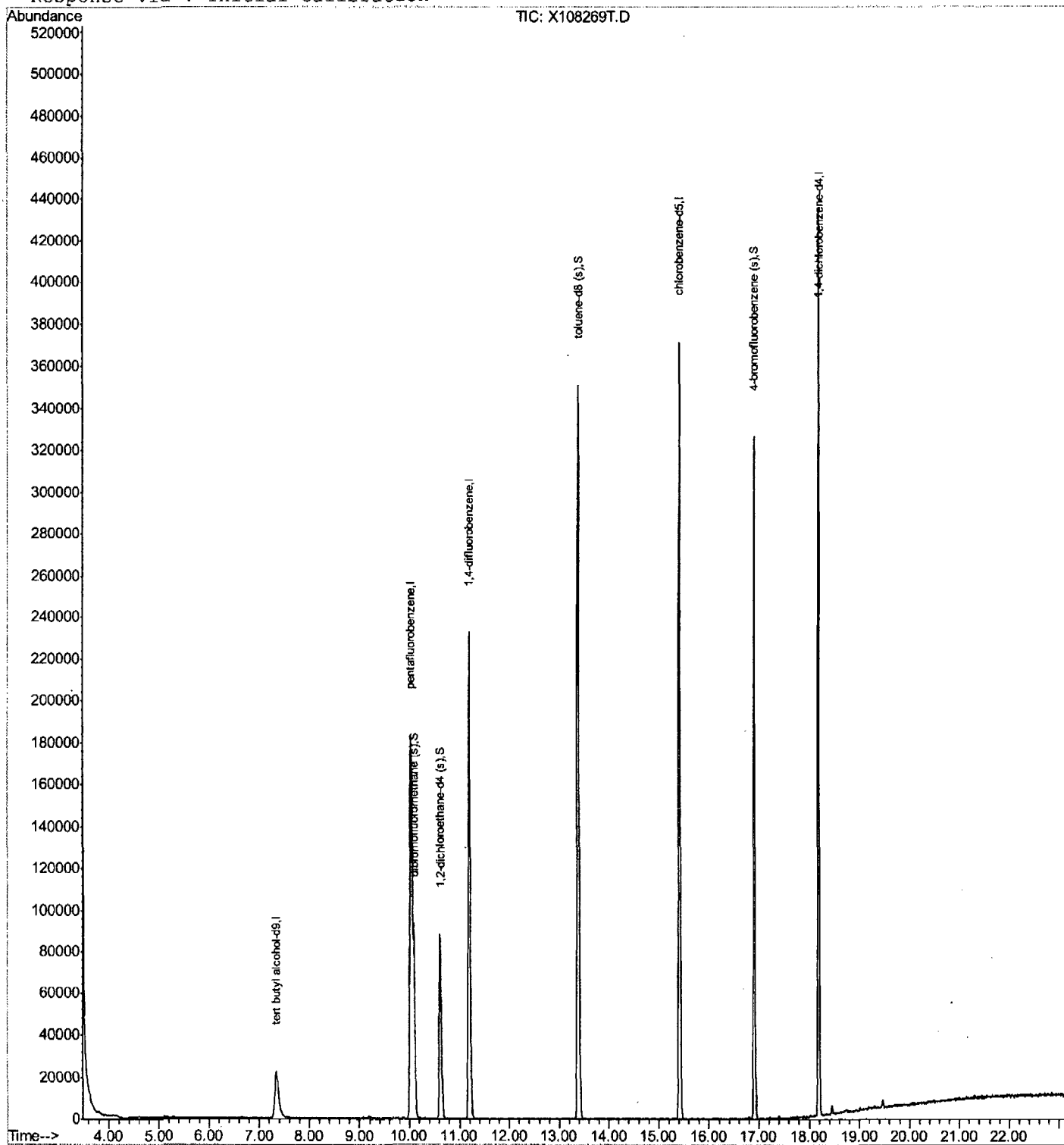
Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108269T.D
Acq On : 23 Oct 2010 11:48 pm
Sample : ja58750-6T
Misc : MS3476,vx4575,10.5,,,,,1
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:19 2010

Vial: 19
Operator: JUNTAEP
Inst : MSX
Multiplr: 1.00

Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108270T.D Vial: 20
 Acq On : 24 Oct 2010 12:18 am Operator: JUNTAEP
 Sample : ja58750-7T Inst : MSX
 Misc : MS3476,vx4575,9.9,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Dec 21 11:16:45 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Tue Dec 21 11:12:13 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
2) pentafluorobenzene	10.04	168	200877	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	266193	50.00	ug/L	-0.03
13) chlorobenzene-d5	15.42	117	242637	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	104253	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.09	113	79826	46.50	ug/L	-0.03
Spiked Amount	50.000	Range	67 - 127	Recovery	=	93.00%
6) 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%
11) toluene-d8 (s)	13.39	98	313977	54.10	ug/L	-0.02
Spiked Amount	50.000	Range	74 - 129	Recovery	=	108.20%
16) 4-bromofluorobenzene (s)	16.91	95	121154	59.19	ug/L	-0.02
Spiked Amount	50.000	Range	62 - 138	Recovery	=	118.38%

Target Compounds

Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108270T.D

Vial: 20

Acq On : 24 Oct 2010 12:18 am

Operator: JUNTAEP

Sample : ja58750-7T

Inst : MSX

Misc : MS3476,vx4575,9.9,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Dec 21 11:19 2010

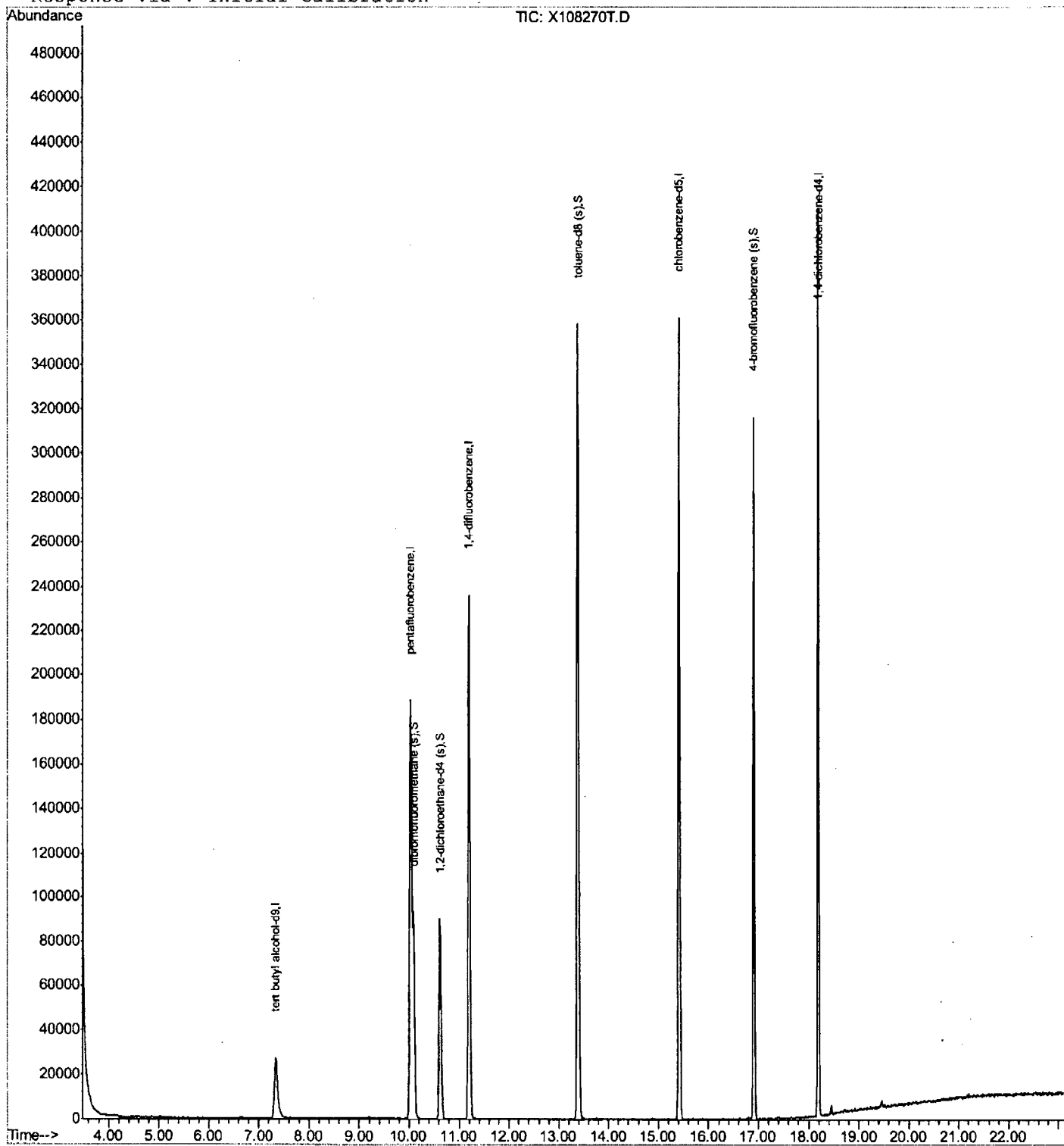
Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)

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

Last Update : Tue Dec 21 11:12:13 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108271T.D Vial: 21
Acq On : 24 Oct 2010 12:47 am Operator: JUNTAEP
Sample : ja58750-8T Inst : MSX
Misc : MS3476,vx4575,9.9,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:16:46 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 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
2) pentafluorobenzene	10.04	168	204088	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	275716	50.00	ug/L	-0.03
13) chlorobenzene-d5	15.42	117	269975	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	125913	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.09	113	82113	47.08	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	94.16%	
6) 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%	
11) toluene-d8 (s)	13.39	98	331300	55.12	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	110.24%	
16) 4-bromofluorobenzene (s)	16.91	95	138236	55.92	ug/L	-0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	111.84%	

Target Compounds

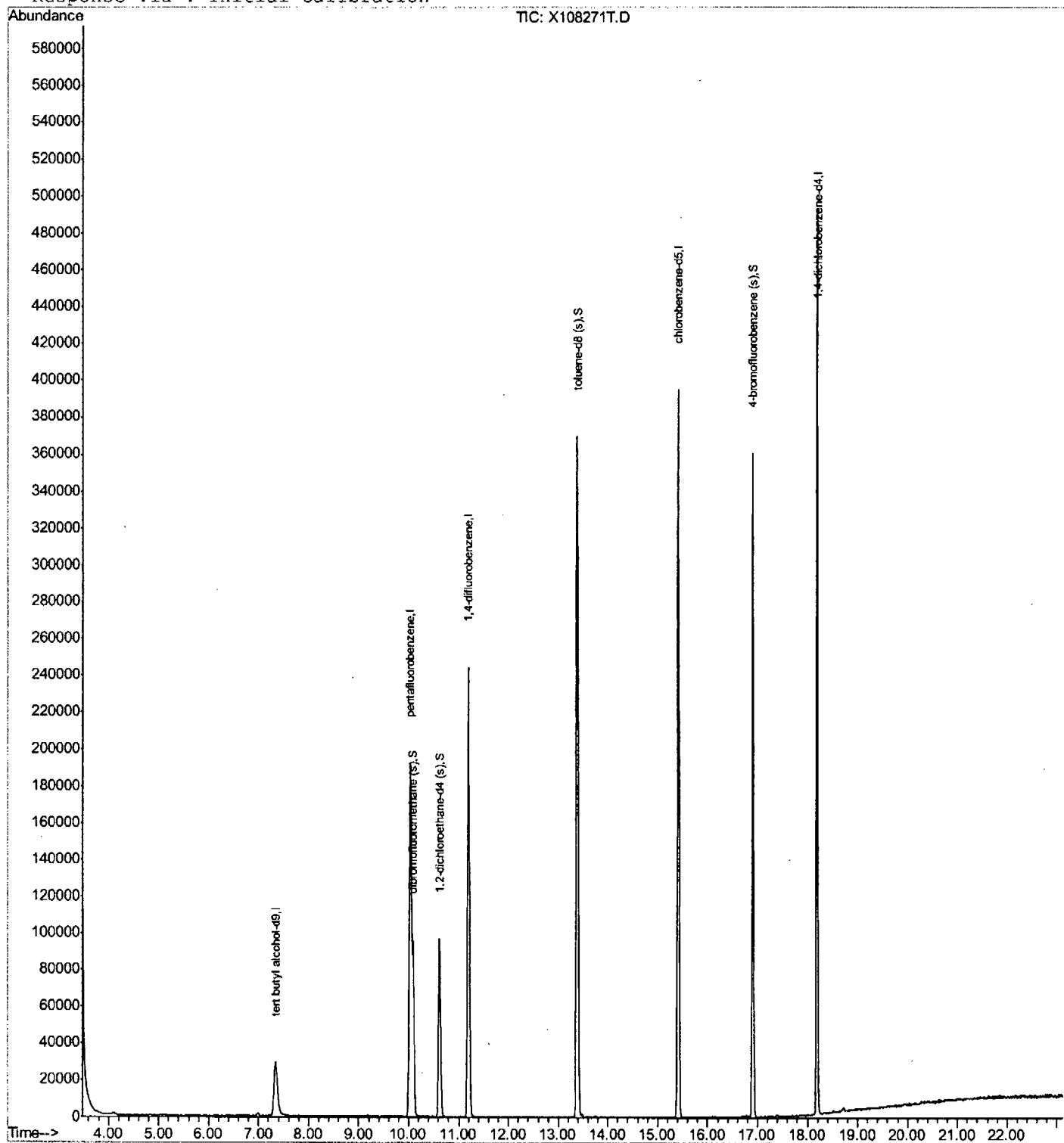
Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108271T.D
Acq On : 24 Oct 2010 12:47 am
Sample : ja58750-8T
Misc : MS3476,vx4575,9.9,,,1
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:19 2010

Vial: 21
Operator: JUNTAEP
Inst : MSX
Multiplr: 1.00

Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108272T.D Vial: 22
Acq On : 24 Oct 2010 1:16 am Operator: JUNTAEP
Sample : ja58750-9T Inst : MSX
Misc : MS3476,vx4575,9.1,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:16:47 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 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
2) pentafluorobenzene	10.03	168	208616	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	279430	50.00	ug/L	-0.03
13) chlorobenzene-d5	15.42	117	262614	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	119438	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.09	113	84591	47.44	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	94.88%	
6) 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%	
11) toluene-d8 (s)	13.39	98	329325	54.06	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	108.12%	
16) 4-bromofluorobenzene (s)	16.91	95	134946	57.54	ug/L	-0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	115.08%	

Target Compounds

Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108272T.D

Vial: 22

Acq On : 24 Oct 2010 1:16 am

Operator: JUNTAEP

Sample : ja58750-9T

Inst : MSX

Misc : MS3476,vx4575,9.1,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Dec 21 11:20 2010

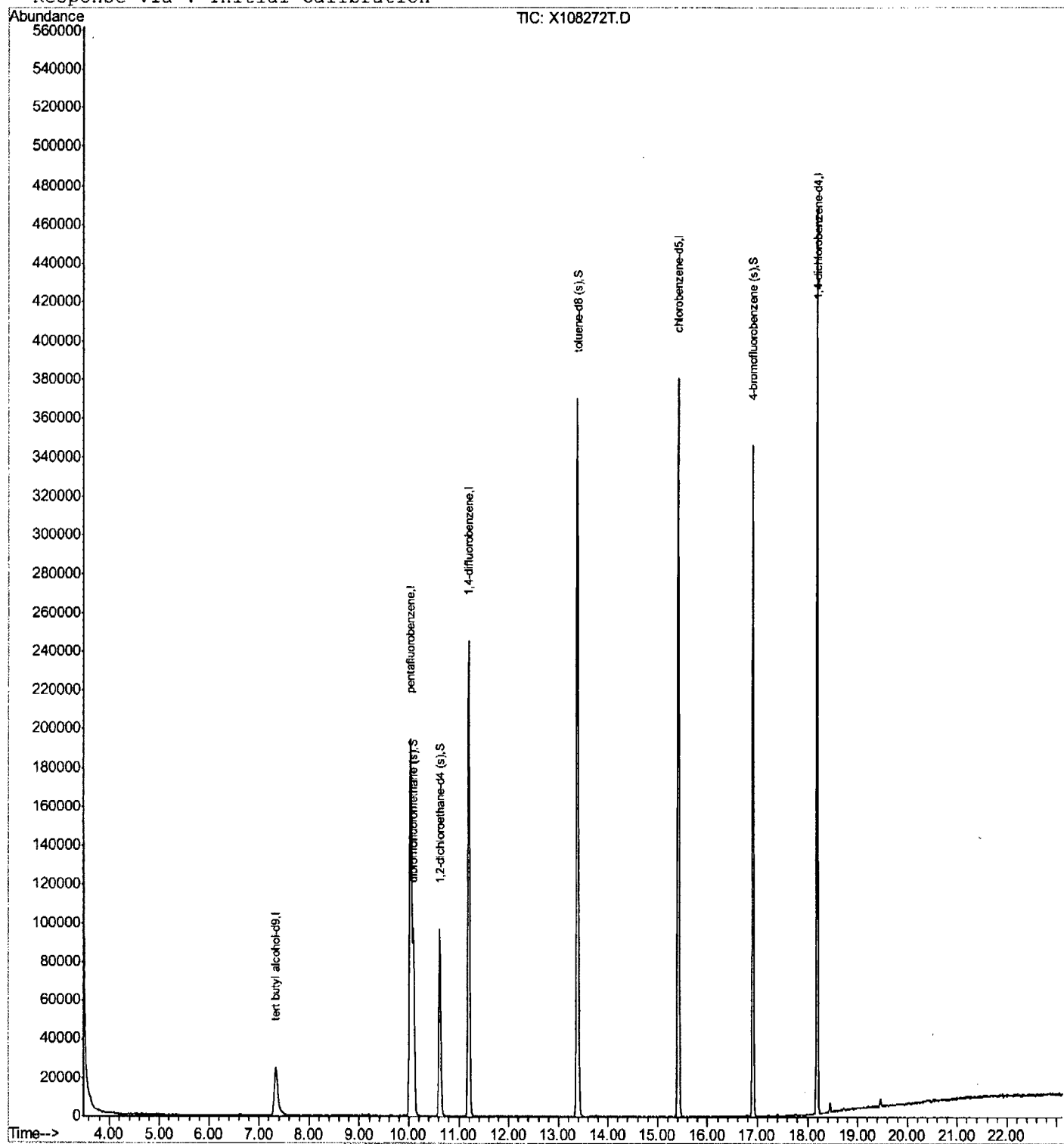
Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)

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

Last Update : Tue Dec 21 11:12:13 2010

Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108309T.D Vial: 11
Acq On : 25 Oct 2010 6:19 pm Operator: JUNTAEP
Sample : ja58750-10T Inst : MSX
Misc : MS3476,vx4577,10.4,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:16:49 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 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	54144	500.00	ug/L	-0.02
2) pentafluorobenzene	10.05	168	133556	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	187667	50.00	ug/L	0.00
13) chlorobenzene-d5	15.43	117	171843	50.00	ug/L	0.00
15) 1,4-dichlorobenzene-d4	18.21	152	63310	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	57465	50.34	ug/L	0.00
Spiked Amount	50.000	Range 67 - 127	Recovery	=	100.68%	
6) 1,2-dichloroethane-d4 (s)	10.64	65	69314	55.11	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	=	110.22%	
11) toluene-d8 (s)	13.41	98	229674	56.14	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	112.28%	
16) 4-bromofluorobenzene (s)	16.93	95	85202	68.54	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	137.08%	

Target Compounds

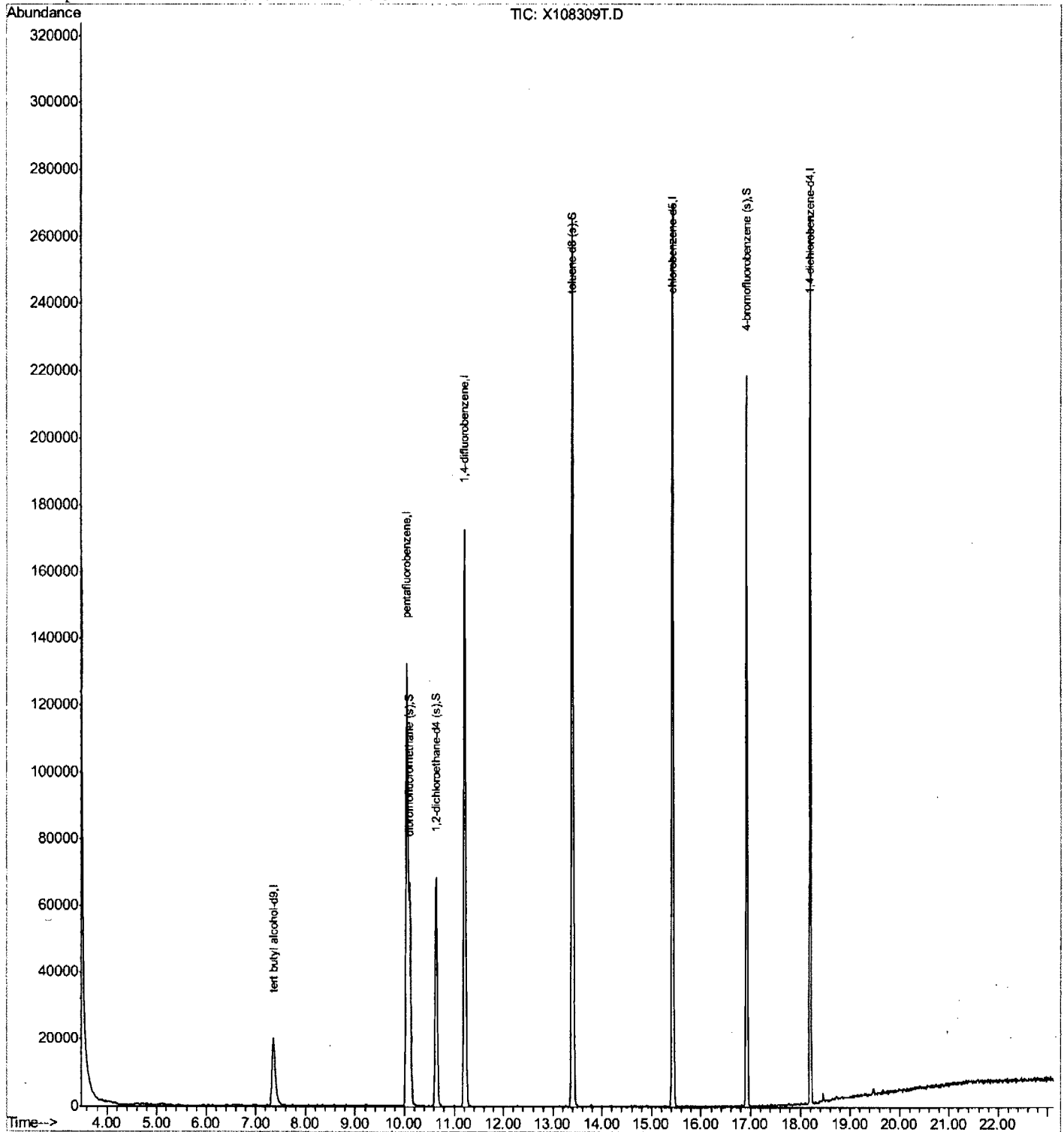
Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108309T.D
Acq On : 25 Oct 2010 6:19 pm
Sample : ja58750-10T
Misc : MS3476,vx4577,10.4,,,,,1
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:20 2010

Vial: 11
Operator: JUNTAEP
Inst : MSX
Multiplr: 1.00

Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108259T.D Vial: 9
 Acq On : 23 Oct 2010 6:57 pm Operator: JUNTAEP
 Sample : ja58750-11T Inst : MSX
 Misc : MS3476,vx4575,9.4,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Dec 21 11:16:30 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Tue Dec 21 11:12:13 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	-0.02
2) pentafluorobenzene	10.04	168	198712	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	257367	50.00	ug/L	-0.03
13) chlorobenzene-d5	15.42	117	218220	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	76471	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.09	113	78693	46.34	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	92.68%	
6) 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%	
11) toluene-d8 (s)	13.39	98	298602	53.22	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	106.44%	
16) 4-bromofluorobenzene (s)	16.91	95	100537	66.96	ug/L	-0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	133.92%	

Target Compounds

Qvalue

Vial: 9

Operator: JUNTAEP

Inst : MSX

Multiplr: 1.00

Quant. Results File: MX4516B.RES

Quant Time: Dec 21 11:18 2010

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

Last Update : Tue Dec 21 11:12:13 2010

Response via : Initial Calibration

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108310T.D Vial: 12
Acq On : 25 Oct 2010 6:48 pm Operator: JUNTAEP
Sample : ja58750-12T Inst : MSX
Misc : MS3476,vx4577,10.9,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:16:50 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 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	56784	500.00	ug/L	-0.01
2) pentafluorobenzene	10.05	168	140261	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	195837	50.00	ug/L	0.00
13) chlorobenzene-d5	15.43	117	184042	50.00	ug/L	0.00
15) 1,4-dichlorobenzene-d4	18.20	152	73952	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	58868	49.11	ug/L	0.00
Spiked Amount	50.000	Range 67 - 127	Recovery	=	98.22%	
6) 1,2-dichloroethane-d4 (s)	10.64	65	72052	54.55	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	=	109.10%	
11) toluene-d8 (s)	13.40	98	239603	56.12	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	112.24%	
16) 4-bromofluorobenzene (s)	16.92	95	93718	64.54	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	129.08%	

Target Compounds

Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108310T.D

Vial: 12

Acq On : 25 Oct 2010 6:48 pm

Operator: JUNTAEP

Sample : ja58750-12T

Inst : MSX

Misc : MS3476,vx4577,10.9,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Dec 21 11:20 2010

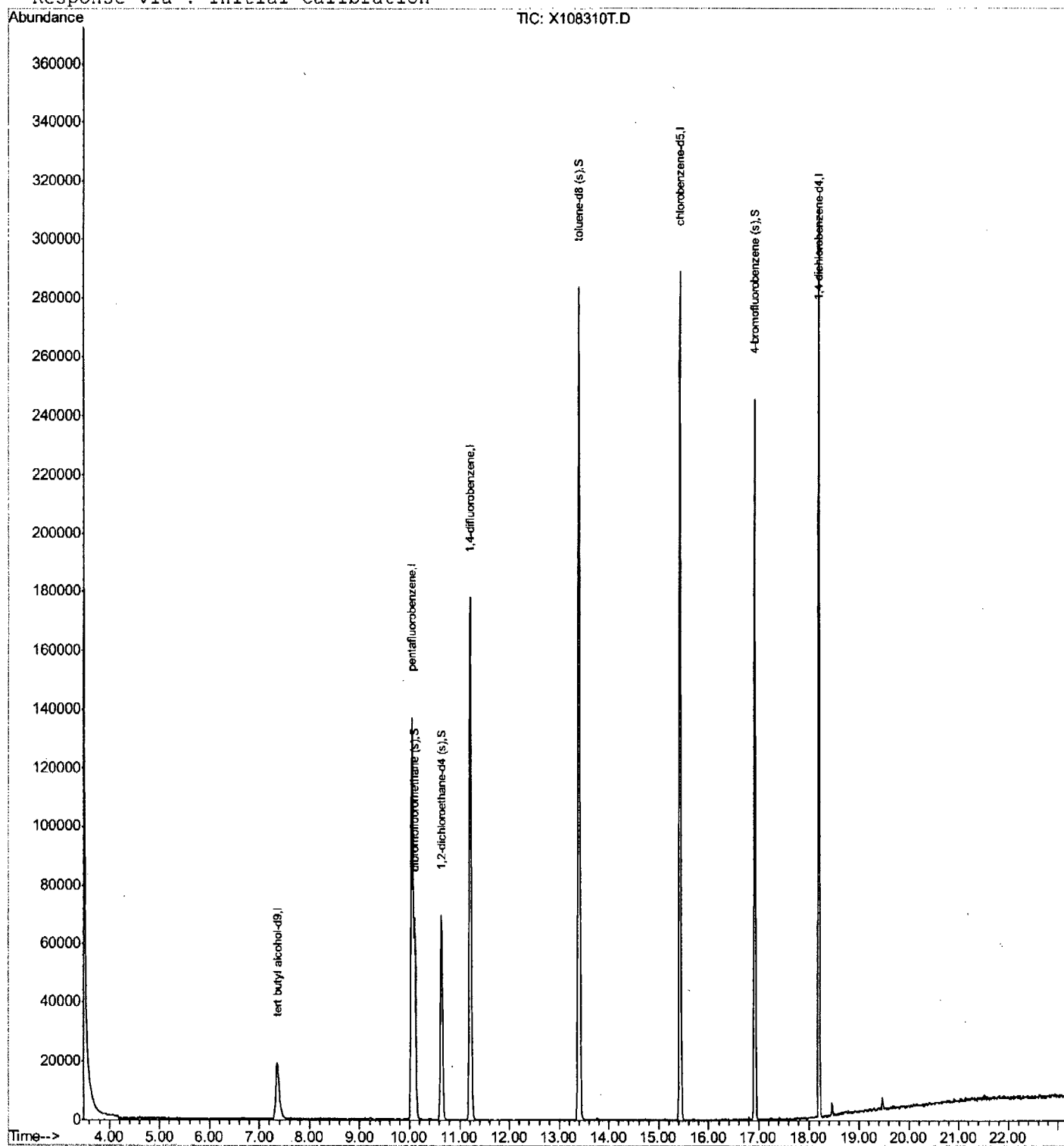
Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)

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

Last Update : Tue Dec 21 11:12:13 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108311T.D Vial: 13
Acq On : 25 Oct 2010 7:17 pm Operator: JUNTAEP
Sample : ja58750-13T Inst : MSX
Misc : MS3476,vx4577,10.7,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:16:51 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 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	56934	500.00	ug/L	-0.01
2) pentafluorobenzene	10.05	168	130205	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	187838	50.00	ug/L	-0.01
13) chlorobenzene-d5	15.43	117	153042	50.00	ug/L	0.00
15) 1,4-dichlorobenzene-d4	18.20	152	37093	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	59327	53.31	ug/L	-0.01
Spiked Amount	50.000	Range 67 - 127	Recovery	=	106.62%	
6) 1,2-dichloroethane-d4 (s)	10.63	65	69696	56.84	ug/L	-0.01
Spiked Amount	50.000	Range 65 - 132	Recovery	=	113.68%	
11) toluene-d8 (s)	13.40	98	220928	53.95	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	107.90%	
16) 4-bromofluorobenzene (s)	16.92	95	63899	87.74	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	175.48%#	

Target Compounds

Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108311T.D

Vial: 13

Acq On : 25 Oct 2010 7:17 pm

Operator: JUNTAEP

Sample : ja58750-13T

Inst : MSX

Misc : MS3476,vx4577,10.7,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Dec 21 11:20 2010

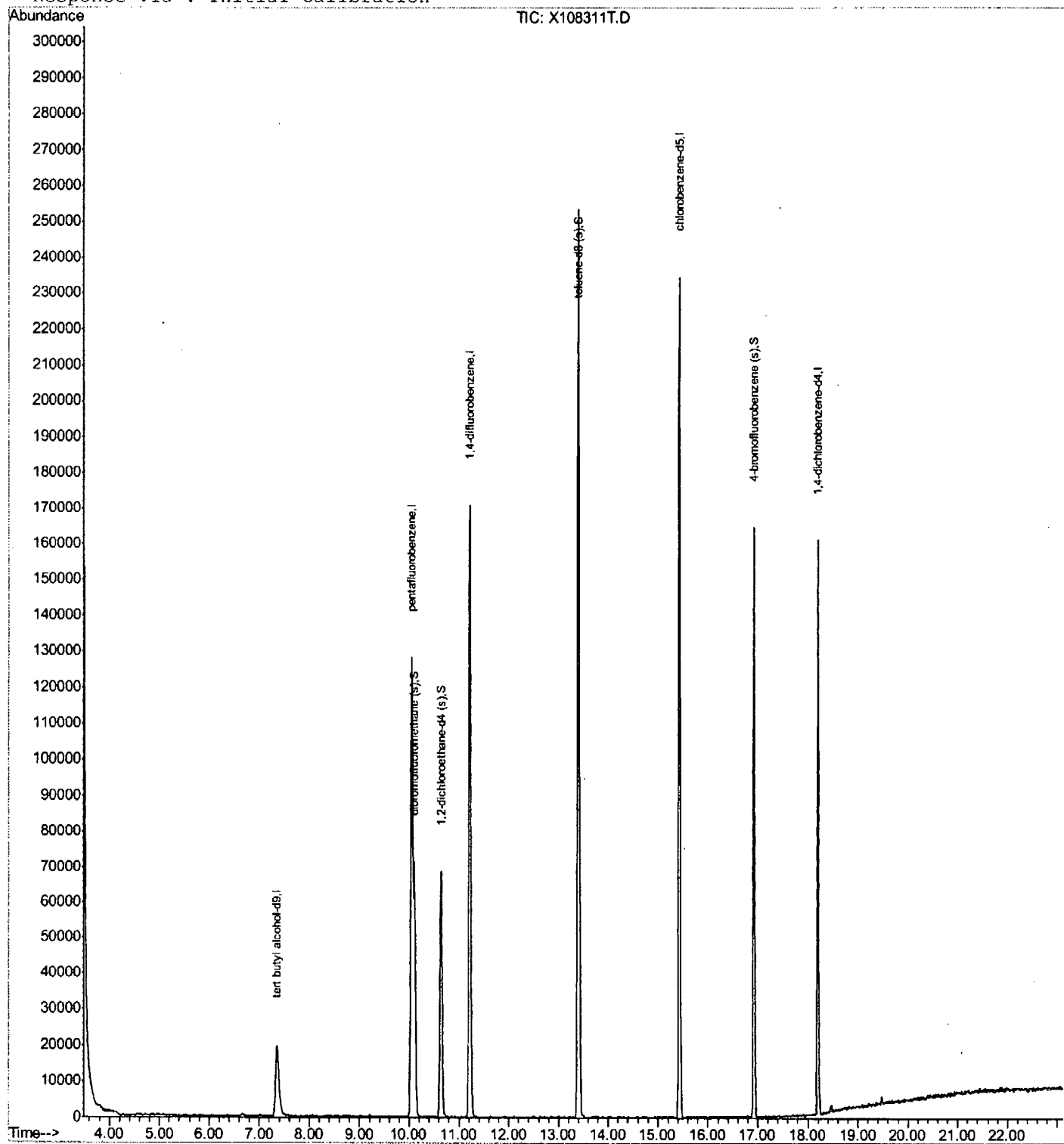
Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)

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

Last Update : Tue Dec 21 11:12:13 2010

Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108312T.D Vial: 14
 Acq On : 25 Oct 2010 7:47 pm Operator: JUNTAEP
 Sample : ja58750-14T Inst : MSX
 Misc : MS3476,vx4577,9.7,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Dec 21 11:16:52 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Tue Dec 21 11:12:13 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	62092	500.00	ug/L	0.00
2) pentafluorobenzene	10.05	168	141405	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	200650	50.00	ug/L	0.00
13) chlorobenzene-d5	15.43	117	189618	50.00	ug/L	0.00
15) 1,4-dichlorobenzene-d4	18.20	152	81449	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	60022	49.66	ug/L	0.00
Spiked Amount	50.000	Range 67 - 127	Recovery	=	99.32%	
6) 1,2-dichloroethane-d4 (s)	10.64	65	73783	55.41	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	=	110.82%	
11) toluene-d8 (s)	13.40	98	247674	56.62	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	113.24%	
16) 4-bromofluorobenzene (s)	16.92	95	99033	61.93	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	123.86%	

Target Compounds

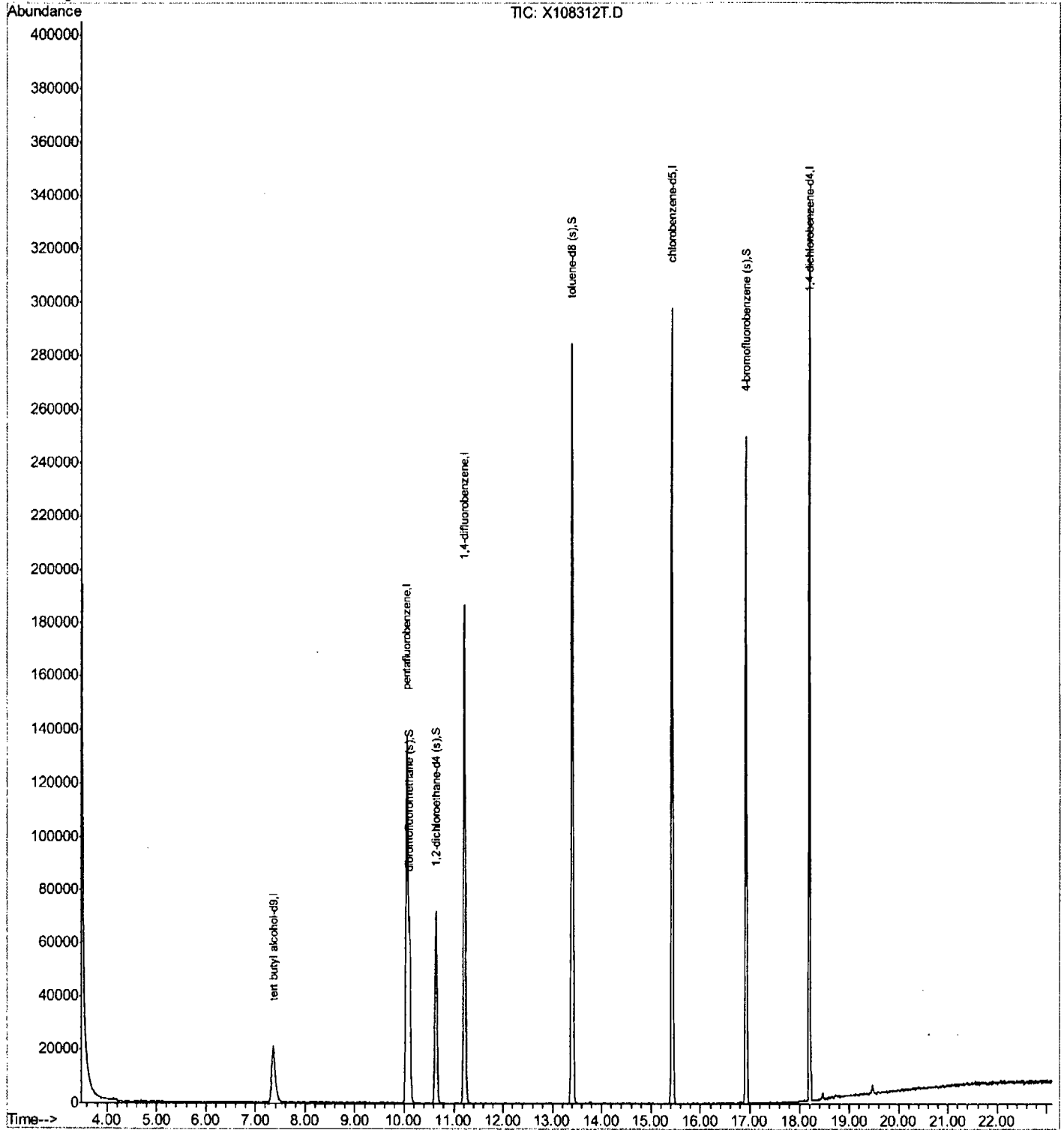
Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108312T.D
Acq On : 25 Oct 2010 7:47 pm
Sample : ja58750-14T
Misc : MS3476,vx4577,9.7,,,,1
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:20 2010

Vial: 14
Operator: JUNTAEP
Inst : MSX
Multiplr: 1.00

Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108260T.D Vial: 10
Acq On : 23 Oct 2010 7:26 pm Operator: JUNTAEP
Sample : ja58750-15T Inst : MSX
Misc : MS3476,vx4575,11.2,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:16:31 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 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
2) pentafluorobenzene	10.04	168	205238	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	271790	50.00	ug/L	-0.03
13) chlorobenzene-d5	15.42	117	249616	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	111815	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.10	113	79485	45.31	ug/L	-0.02
Spiked Amount	50.000	Range 67 - 127	Recovery	=	90.62%	
6) 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%	
11) toluene-d8 (s)	13.39	98	320622	54.11	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	108.22%	
16) 4-bromofluorobenzene (s)	16.91	95	126796	57.76	ug/L	-0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	115.52%	

Target Compounds

Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108260T.D

Vial: 10

Acq On : 23 Oct 2010 7:26 pm

Operator: JUNTAEP

Sample : ja58750-15T

Inst : MSX

Misc : MS3476,vx4575,11.2,,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Dec 21 11:18 2010

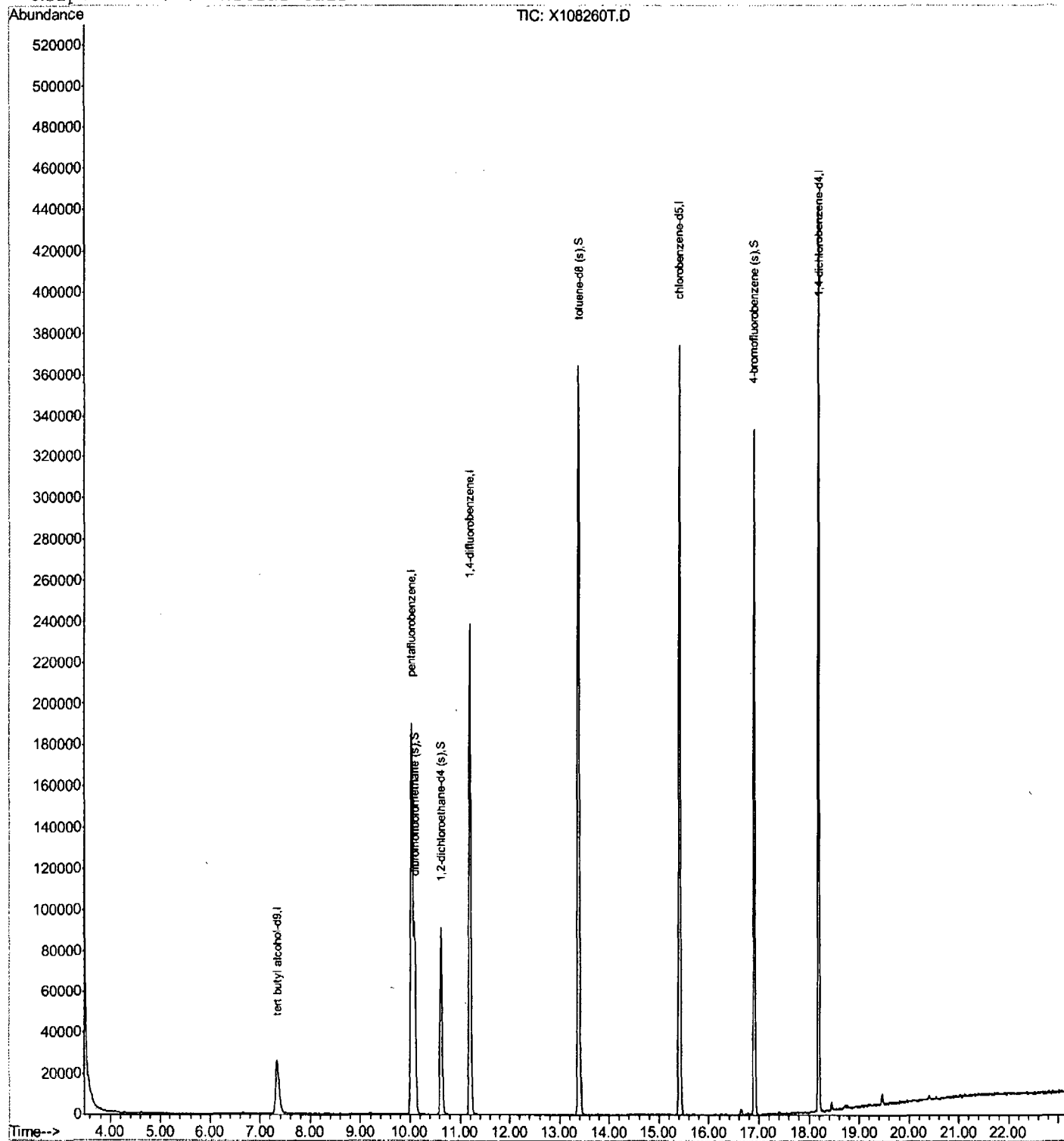
Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)

Title : SW-846 Method 8260B, 2B624 60m x 0.25mm x 1.4um

Last Update : Tue Dec 21 11:12:13 2010

Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108261T.D Vial: 11
 Acq On : 23 Oct 2010 7:55 pm Operator: JUNTAEP
 Sample : ja58750-16T Inst : MSX
 Misc : MS3476,vx4575,8.9,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Dec 21 11:16:33 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Tue Dec 21 11:12:13 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	-0.02
2) pentafluorobenzene	10.04	168	212558	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	280592	50.00	ug/L	-0.03
13) chlorobenzene-d5	15.42	117	261996	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	129805	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.09	113	84079	46.28	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	92.56%	
6) 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%	
11) toluene-d8 (s)	13.39	98	329878	53.93	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	107.86%	
16) 4-bromofluorobenzene (s)	16.91	95	137901	54.11	ug/L	-0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	108.22%	

Target Compounds

Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108261T.D

Vial: 11

Acq On : 23 Oct 2010 7:55 pm

Operator: JUNTAEP

Sample : ja58750-16T

Inst : MSX

Misc : MS3476,vx4575,8.9,,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Dec 21 11:18 2010

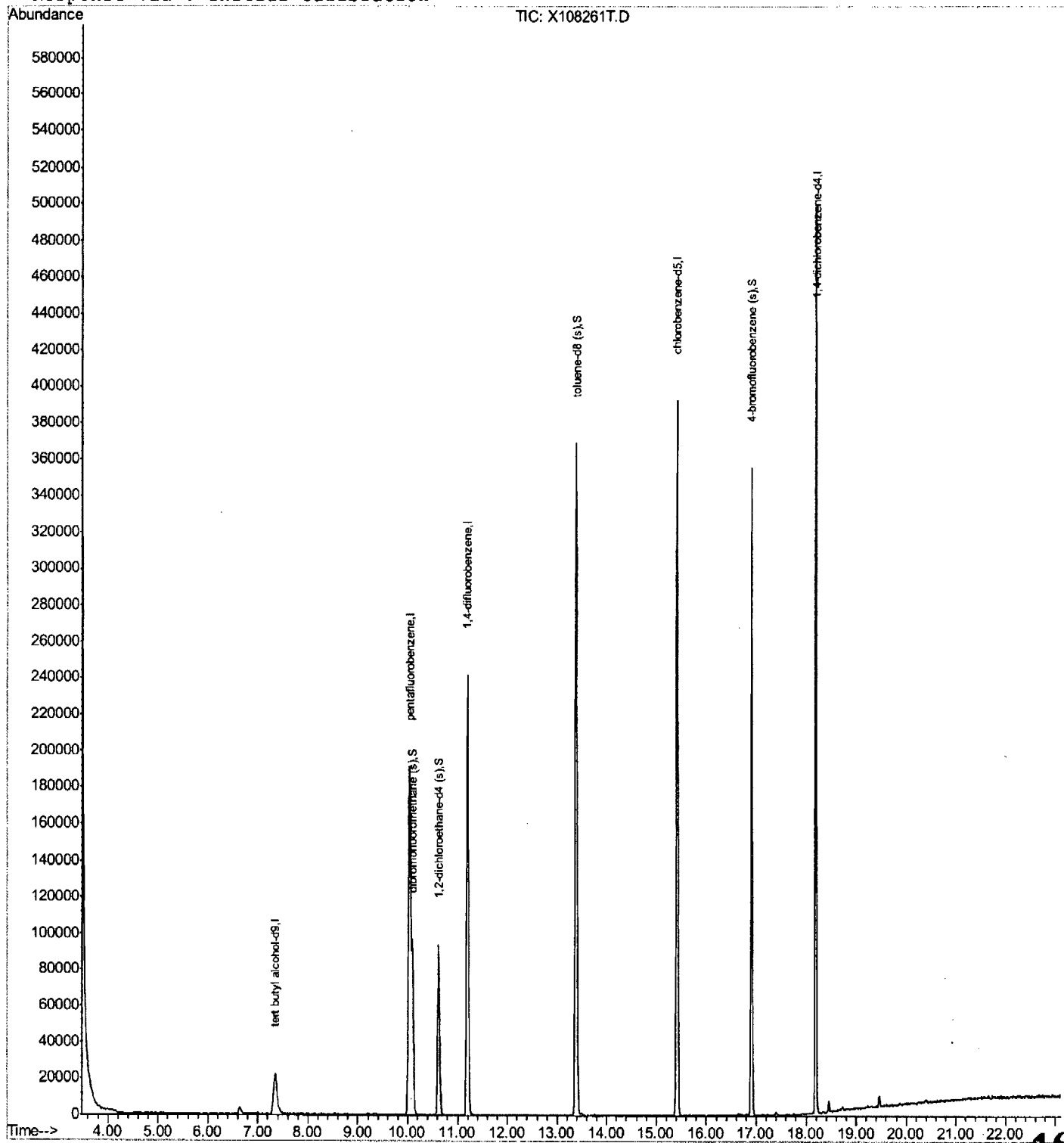
Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)

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

Last Update : Tue Dec 21 11:12:13 2010

Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108262T.D Vial: 12
Acq On : 23 Oct 2010 8:25 pm Operator: JUNTAEP
Sample : ja58750-17T Inst : MSX
Misc : MS3476,vx4575,9.2,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:16:34 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 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
2) pentafluorobenzene	10.04	168	195311	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	256953	50.00	ug/L	-0.03
13) chlorobenzene-d5	15.42	117	214303	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	66701	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.09	113	79219	47.46	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	94.92%	
6) 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%	
11) toluene-d8 (s)	13.39	98	296671	52.96	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	105.92%	
16) 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

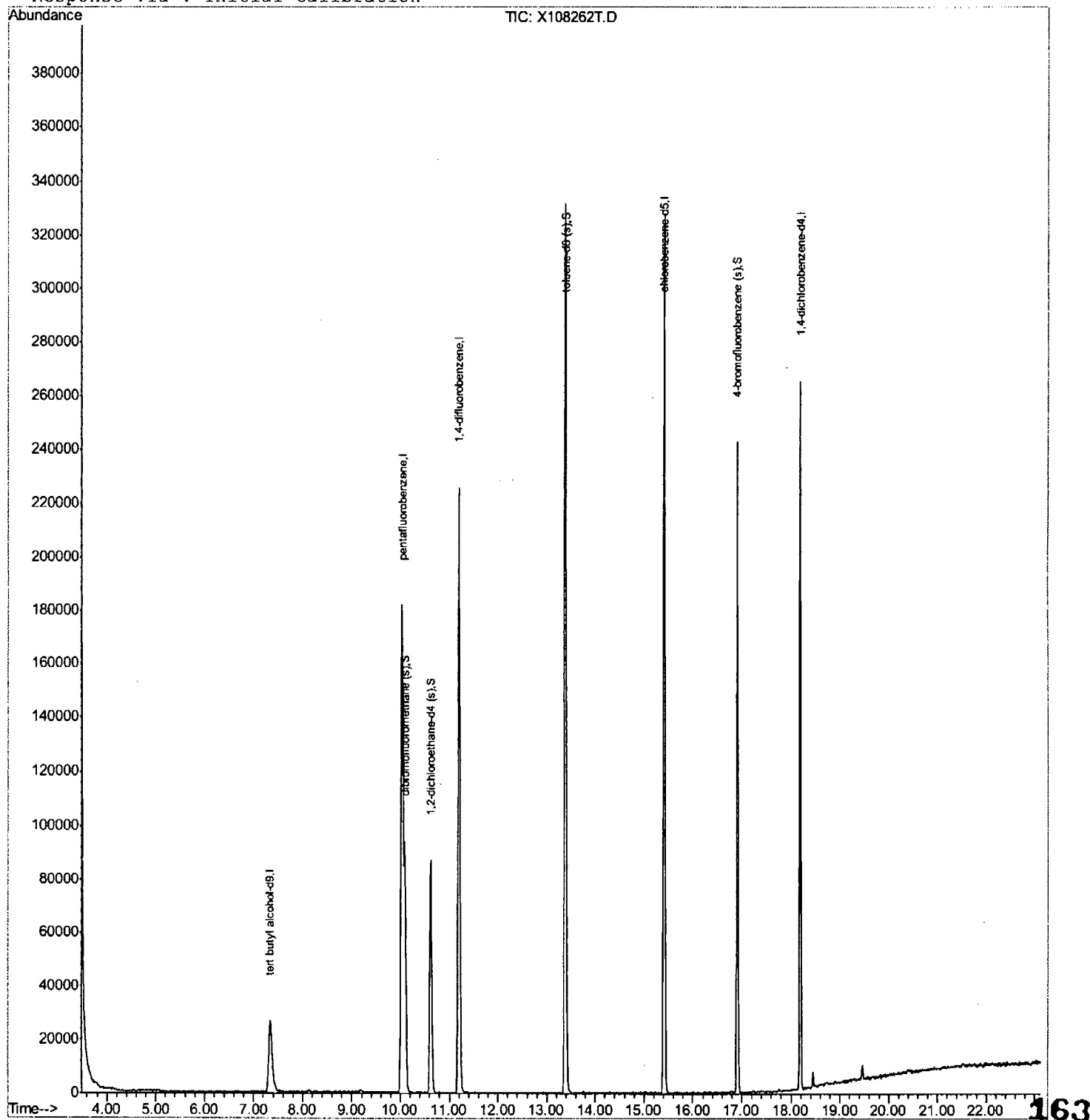
Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108262T.D
Acq On : 23 Oct 2010 8:25 pm
Sample : ja58750-17T
Misc : MS3476,vx4575,9.2,,1
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:18 2010

Vial: 12
Operator: JUNTAEP
Inst : MSX
Multiplr: 1.00

Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108313T.D Vial: 15
 Acq On : 25 Oct 2010 8:16 pm Operator: JUNTAEP
 Sample : ja58750-17T Inst : MSX
 Misc : MS3476,vx4577,9.9,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Dec 21 11:16:54 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Tue Dec 21 11:12:13 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	54691	500.00	ug/L	-0.01
2) pentafluorobenzene	10.05	168	103208	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	139936	50.00	ug/L	0.00
13) chlorobenzene-d5	15.43	117	76549	50.00	ug/L	0.00
15) 1,4-dichlorobenzene-d4	18.21	152	11224	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	53126	60.23	ug/L	-0.01
Spiked Amount	50.000	Range 67 - 127	Recovery	=	120.46%	
6) 1,2-dichloroethane-d4 (s)	10.64	65	55685	57.30	ug/L	0.00
Spiked Amount	50.000	Range 65 - 132	Recovery	=	114.60%	
11) toluene-d8 (s)	13.41	98	150225	49.24	ug/L	0.00
Spiked Amount	50.000	Range 74 - 129	Recovery	=	98.48%	
16) 4-bromofluorobenzene (s)	16.93	95	21850	99.15	ug/L	0.00
Spiked Amount	50.000	Range 62 - 138	Recovery	=	198.30%#	

Target Compounds

Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108313T.D

Vial: 15

Acq On : 25 Oct 2010 8:16 pm

Operator: JUNTAEP

Sample : ja58750-17T

Inst : MSX

Misc : MS3476,vx4577,9.9,,,1

Multiplr: 1.00

MS Integration Params: Rteint.p

Quant Time: Dec 21 11:20 2010

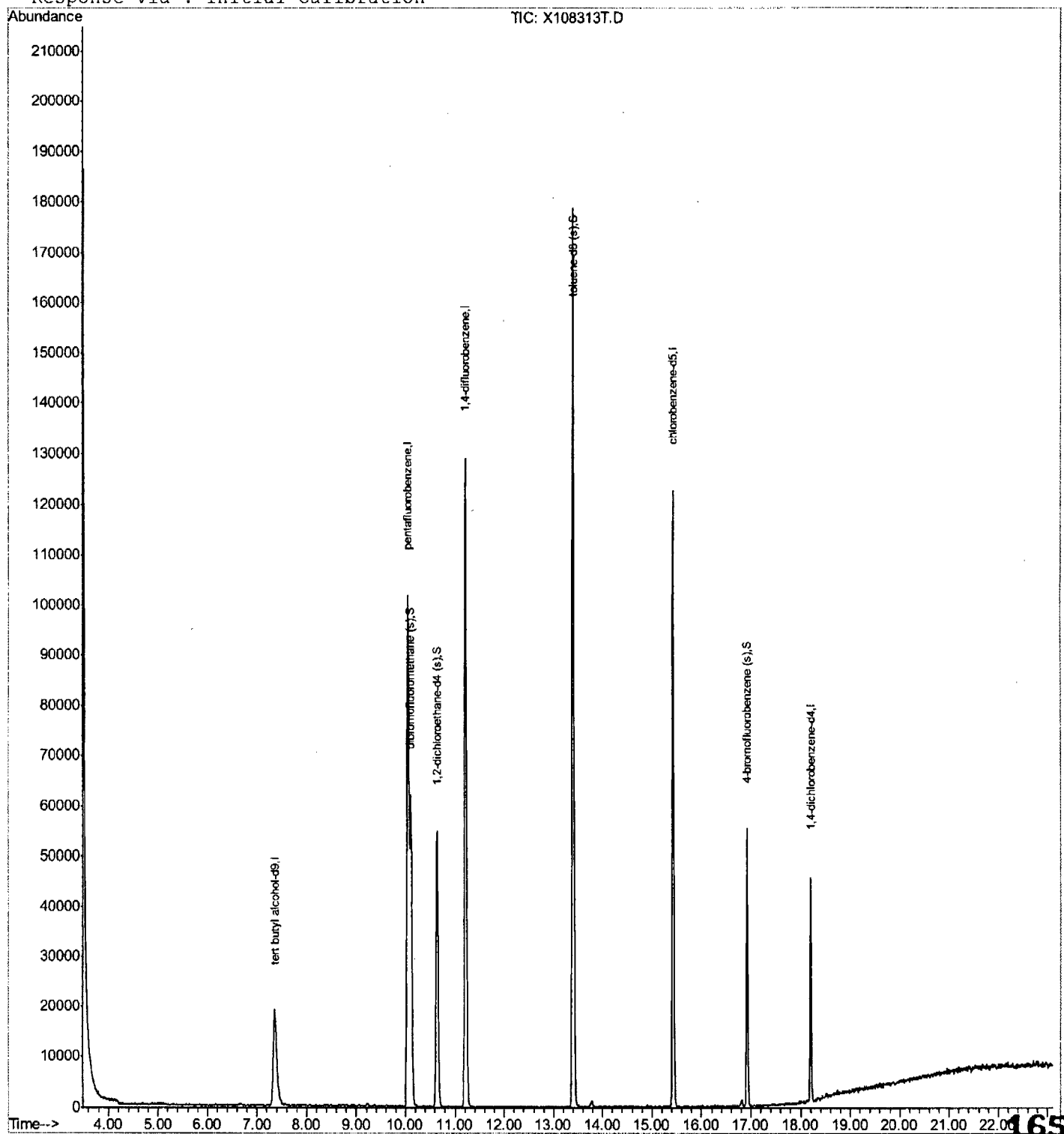
Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)

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

Last Update : Tue Dec 21 11:12:13 2010

Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108263T.D Vial: 13
 Acq On : 23 Oct 2010 8:53 pm Operator: JUNTAEF
 Sample : ja58750-18T Inst : MSX
 Misc : MS3476,vx4575,8.9,,,,,1 Multiplr: 1.00
 MS Integration Params: Rteint.p
 Quant Time: Dec 21 11:16:35 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
 Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update : Tue Dec 21 11:12:13 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
2) pentafluorobenzene	10.04	168	211844	50.00	ug/L	-0.02
7) 1,4-difluorobenzene	11.20	114	285856	50.00	ug/L	-0.02
13) chlorobenzene-d5	15.42	117	270819	50.00	ug/L	-0.02
15) 1,4-dichlorobenzene-d4	18.19	152	131227	50.00	ug/L	-0.02

System Monitoring Compounds

5) dibromofluoromethane (s)	10.10	113	85062	46.98	ug/L	-0.02
Spiked Amount	50.000	Range 67 - 127	Recovery	=	93.96%	
6) 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%	
11) toluene-d8 (s)	13.39	98	337199	54.11	ug/L	-0.02
Spiked Amount	50.000	Range 74 - 129	Recovery	=	108.22%	
16) 4-bromofluorobenzene (s)	16.91	95	140942	54.70	ug/L	-0.02
Spiked Amount	50.000	Range 62 - 138	Recovery	=	109.40%	

Target Compounds

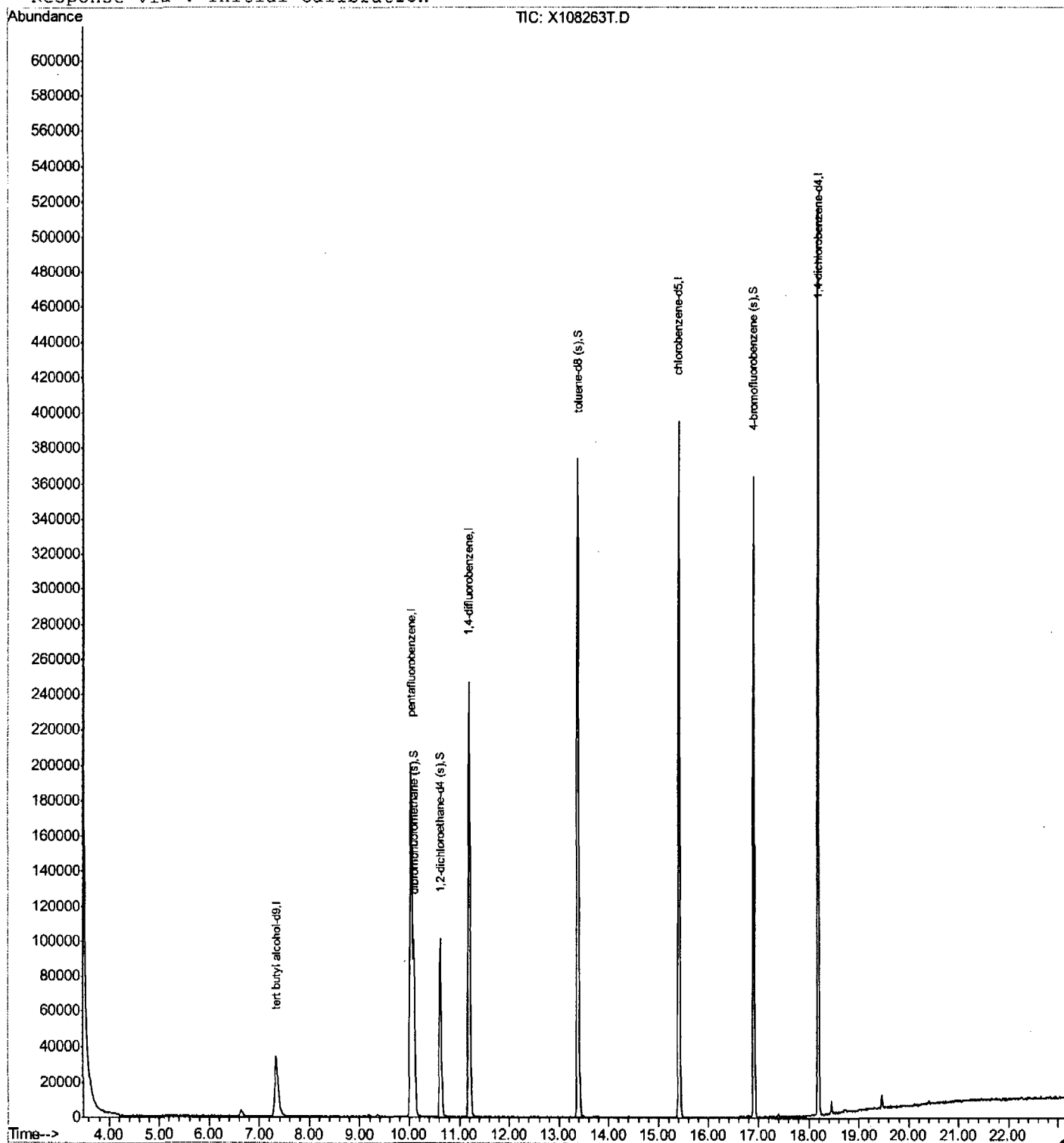
Qvalue

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108263T.D
Acq On : 23 Oct 2010 8:53 pm
Sample : ja58750-18T
Misc : MS3476,vx4575,8.9,,,1
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:18 2010

Vial: 13
Operator: JUNTAEP
Inst : MSX
Multiplr: 1.00

Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



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

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	R.T.	QIon	Response	Conc	Units	Dev(Min)
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	R.T.	QIon	Response	Conc	Units	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

Data File : C:\MSDCHEM\1\DATA\X4575-4576\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

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

(QT Reviewed)

Vial: 6

Operator: JUNTAEP

Inst : MSX

Multiplr: 1.00

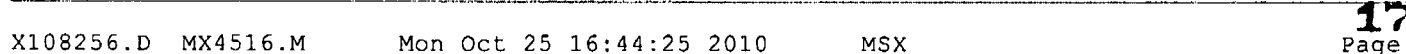
Quant Results File: MX4516.RES

Quant Time: Oct 25 16:37 2010

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



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	R.T.	QIon	Response	Conc	Units	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

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

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

(QT Reviewed)

Vial: 7

Operator: JUNTAEP

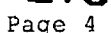
Inst : MSX

Multiplr: 1.00

Quant Results File: MX4516.RES

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

Response via : Initial Calibration



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						
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

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

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

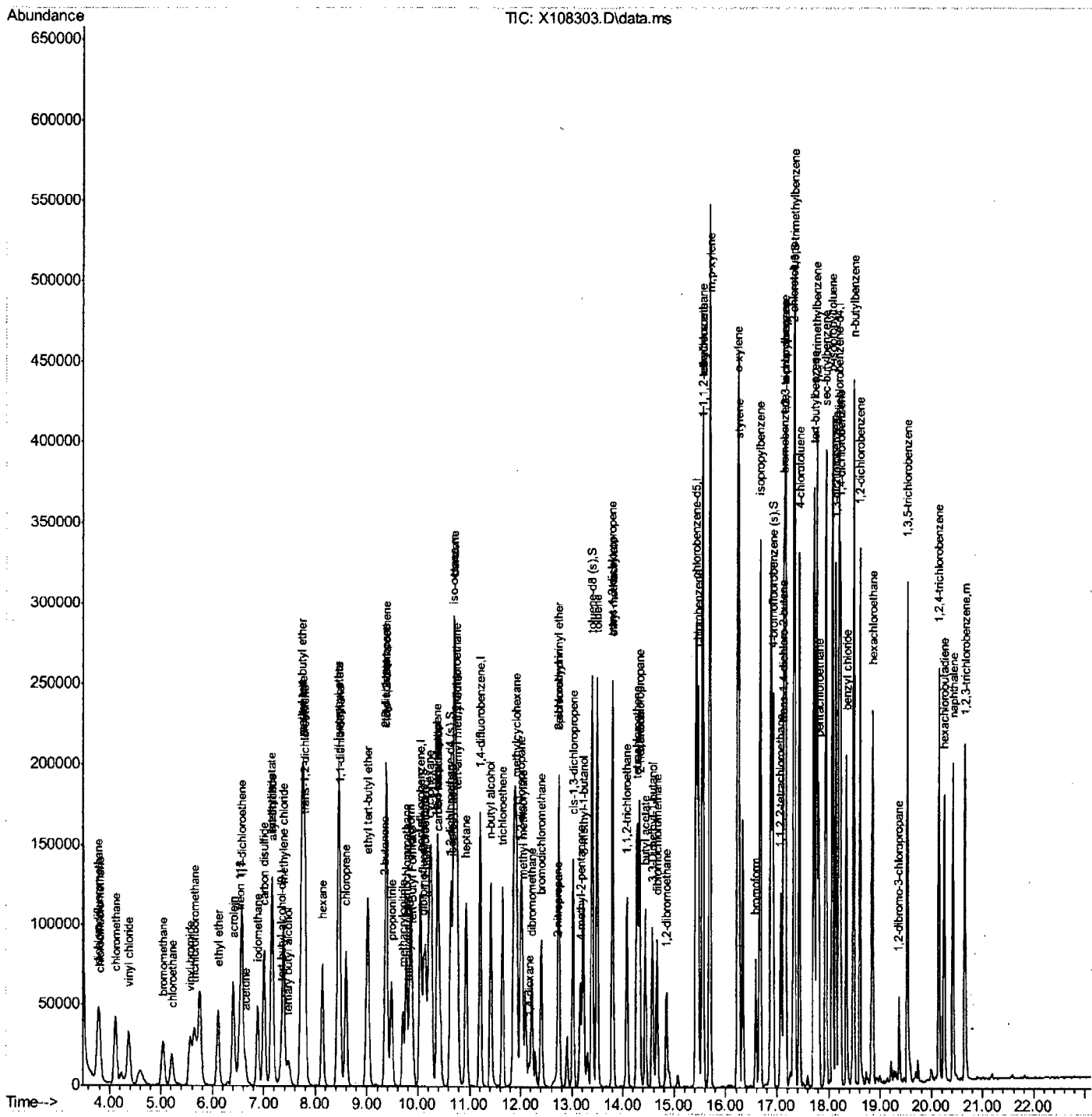
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) isopropylbenzene	16.676	105	264473	44.89	ug/L	97
110) bromobenzene	17.136	156	63978	45.23	ug/L	91
111) 1,1,2,2-tetrachloroethane	17.073	83	69592	53.24	ug/L	100
112) trans-1,4-dichloro-2-b...	17.120	53	23130	62.92	ug/L	88
113) 1,2,3-trichloropropane	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

(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
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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



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

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

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

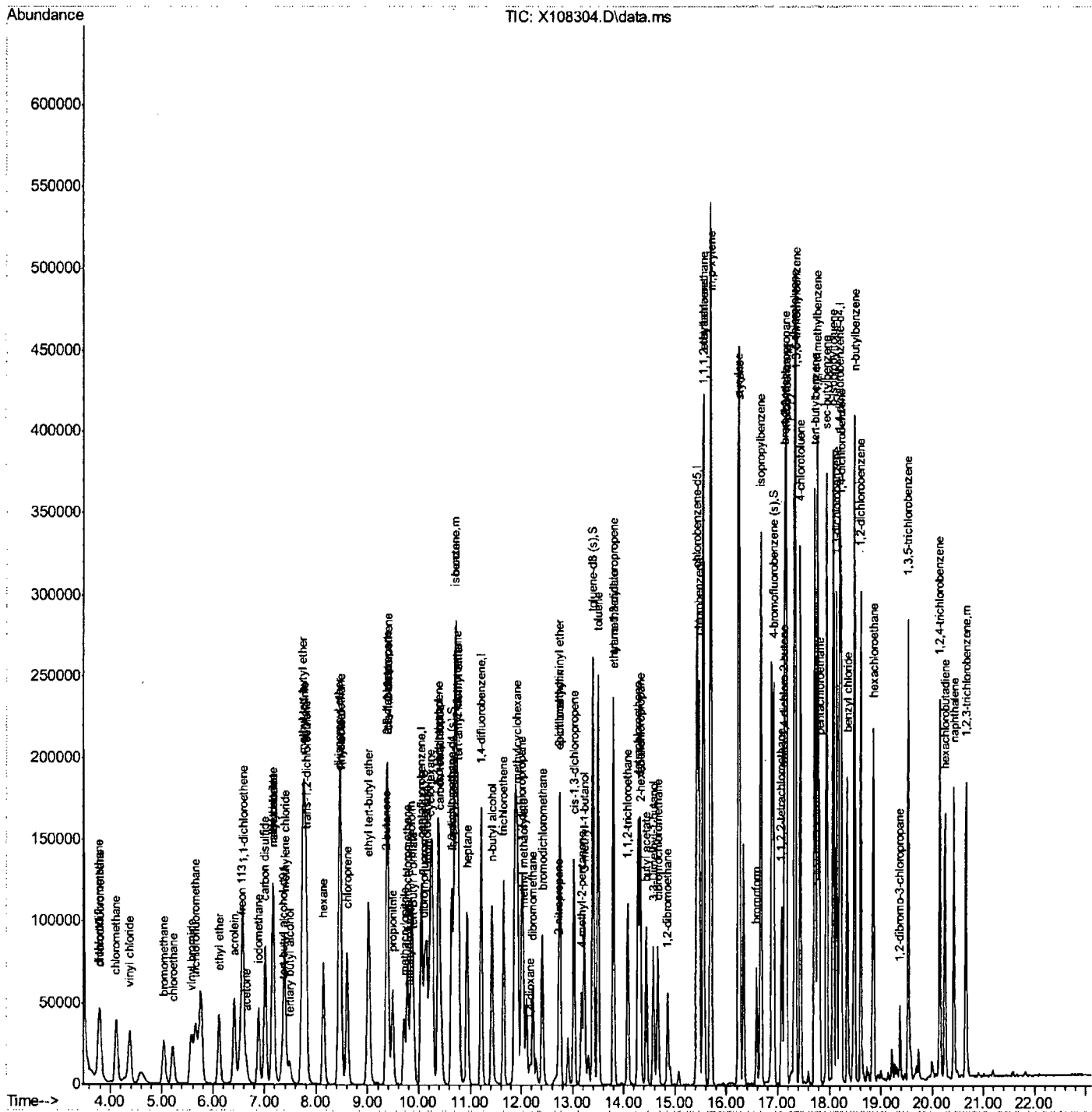
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) isopropylbenzene	16.676	105	261504	44.71	ug/L	97
110) bromobenzene	17.141	156	62078	44.21	ug/L	91
111) 1,1,2,2-tetrachloroethane	17.073	83	63253	48.74	ug/L	97
112) trans-1,4-dichloro-2-b...	17.120	53	21097	57.80	ug/L	83
113) 1,2,3-trichloropropane	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

(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
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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



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

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 16:37:40 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

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

(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)

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\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

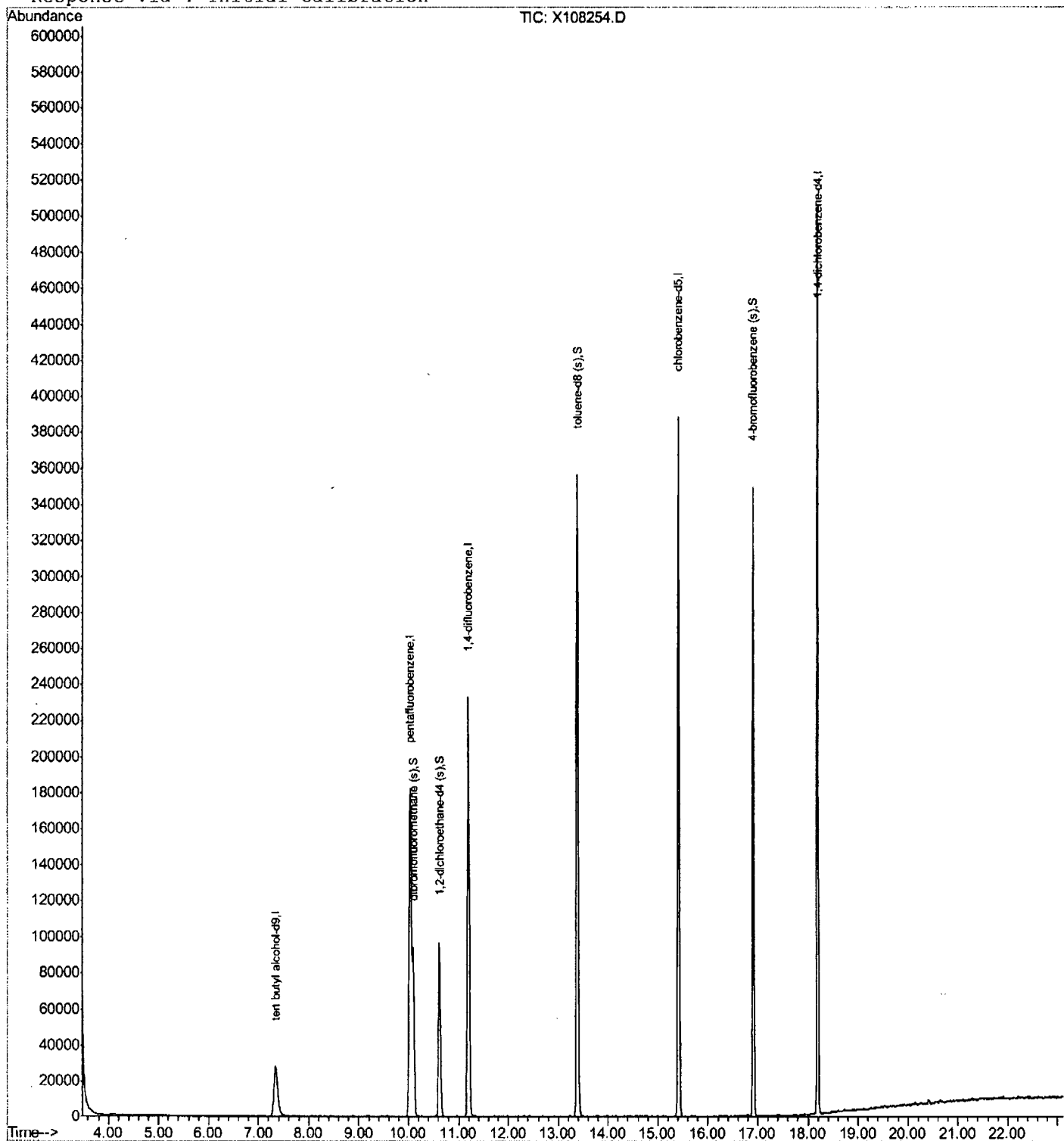
53) dibromofluoromethane (s)	10.09	113	82949	48.63	ug/L	-0.03
Spiked Amount	50.000	Range 67 - 127	Recovery	=	97.26%	
54) 1,2-dichloroethane-d4 (s)	10.62	65	99631	53.02	ug/L	-0.03
Spiked Amount	50.000	Range 65 - 132	Recovery	=	106.04%	
84) toluene-d8 (s)	13.39	98	315197	54.08	ug/L	-0.02
Spiked Amount	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

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



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

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)
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

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

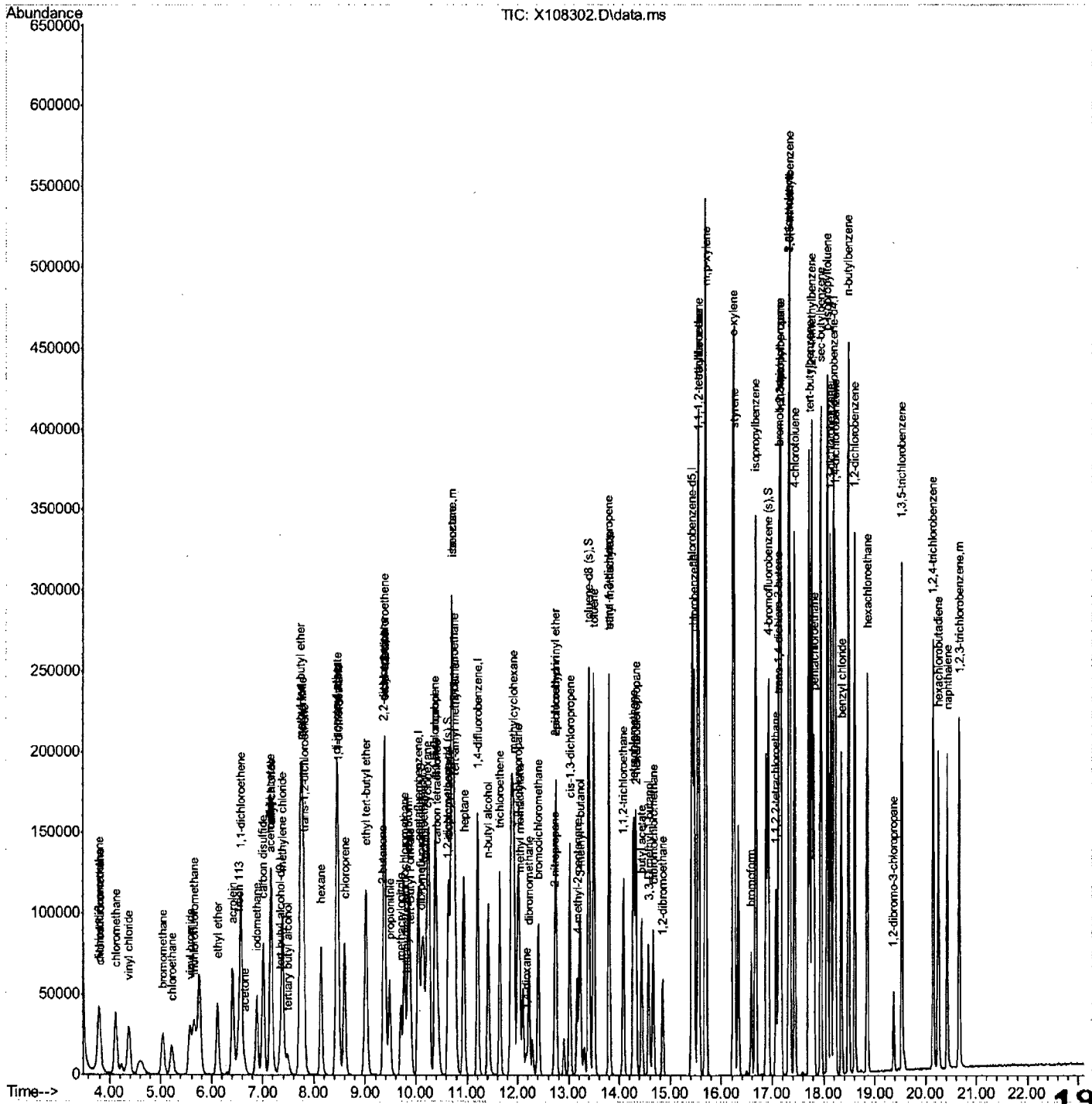
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
108) isopropylbenzene	16.676	105	273772	47.64	ug/L	98
110) bromobenzene	17.136	156	64830	46.98	ug/L	87
111) 1,1,2,2-tetrachloroethane	17.073	83	67945	53.28	ug/L	98
112) trans-1,4-dichloro-2-b...	17.120	53	23941	66.75	ug/L	84
113) 1,2,3-trichloropropane	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

(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



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)

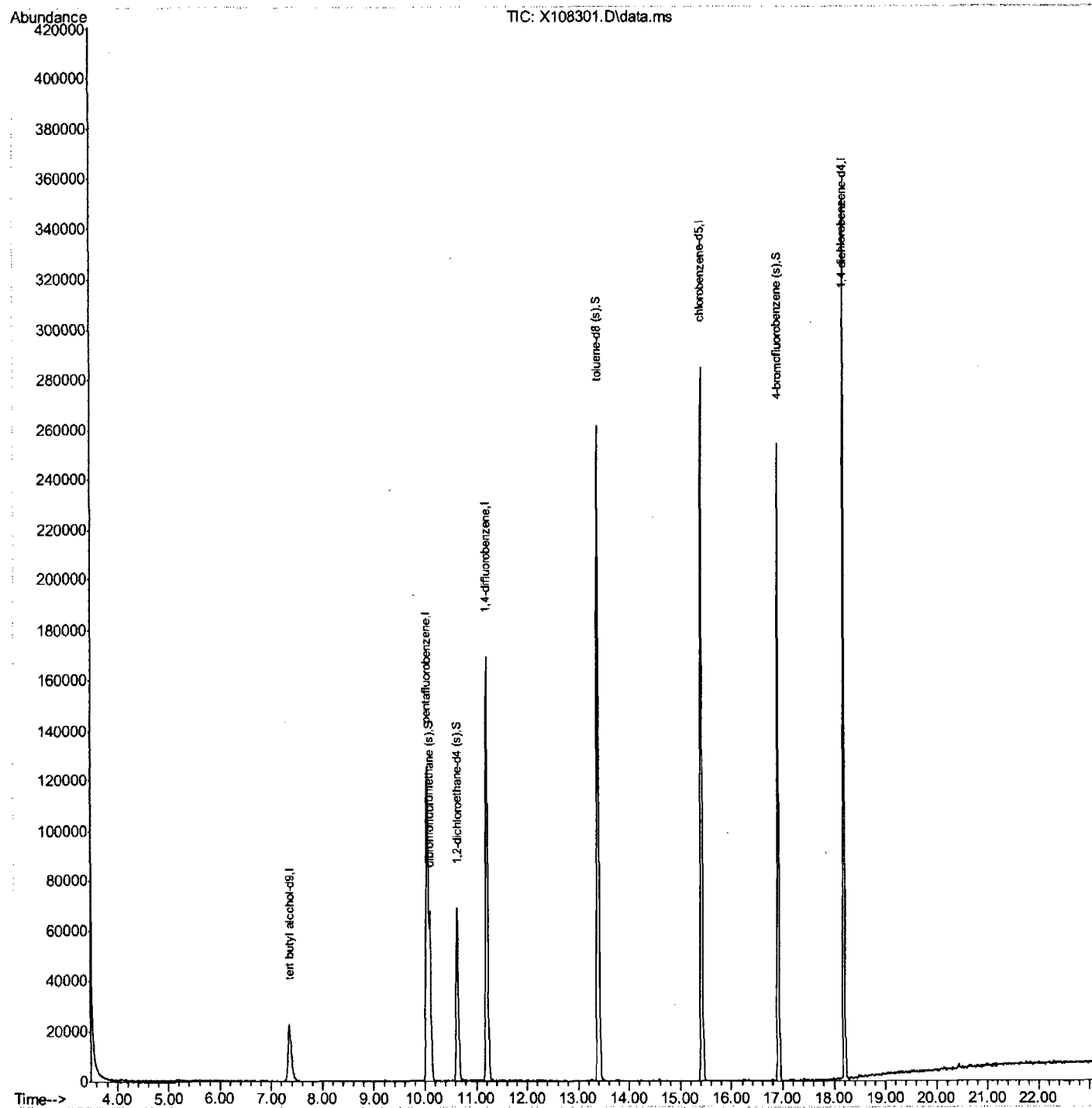
Internal Standards						
1) tert butyl alcohol-d9	7.355	65	61749	500.00	ug/L	0.00
6) pentafluorobenzene	10.049	168	129485	50.00	ug/L	0.00
61) 1,4-difluorobenzene	11.215	114	185899	50.00	ug/L	0.00
92) chlorobenzene-d5	15.426	117	181260	50.00	ug/L	-0.01
107) 1,4-dichlorobenzene-d4	18.203	152	86569	50.00	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

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



LSC Area Percent Report

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

Integration Parameters: Rteint.p
Integrator: RTE
Smoothing : OFF
Sampling : 1
Start Thrs: 0.06
Stop Thrs : 0.04
Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

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

Signal : TIC: X108301.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.355	724	741	767	rBV2	22607	107768	16.90%	2.995%
2	10.049	1241	1256	1263	rBV	124949	393993	61.79%	10.951%
3	10.101	1263	1266	1287	rVB	67625	164787	25.84%	4.580%
4	10.635	1356	1368	1385	rBV	68478	193576	30.36%	5.380%
5	11.215	1467	1479	1496	rBV	168646	454192	71.23%	12.624%
6	13.402	1886	1897	1912	rBV	261268	637642	100.00%	17.723%
7	15.426	2274	2284	2300	rVB	284540	603102	94.58%	16.763%
8	16.922	2560	2570	2583	rVB	253840	465751	73.04%	12.945%
9	18.203	2807	2815	2825	rVB	349571	577012	90.49%	16.038%

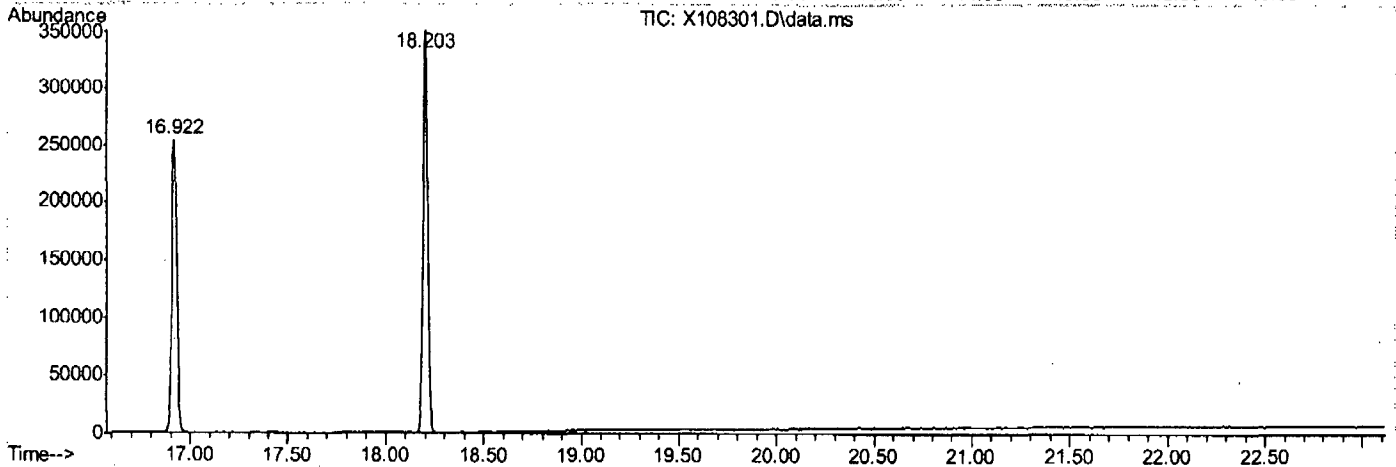
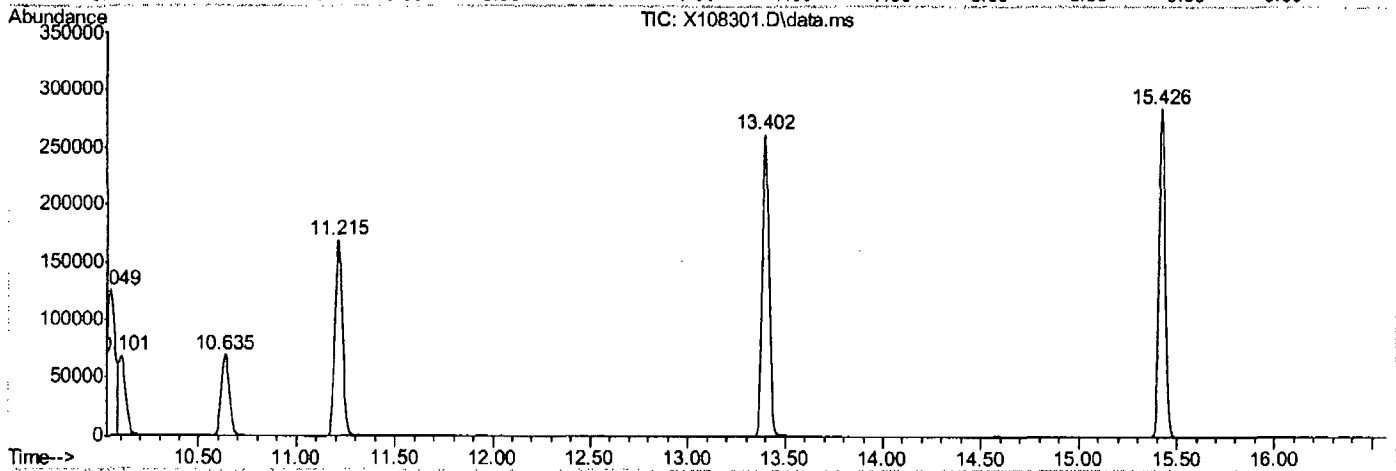
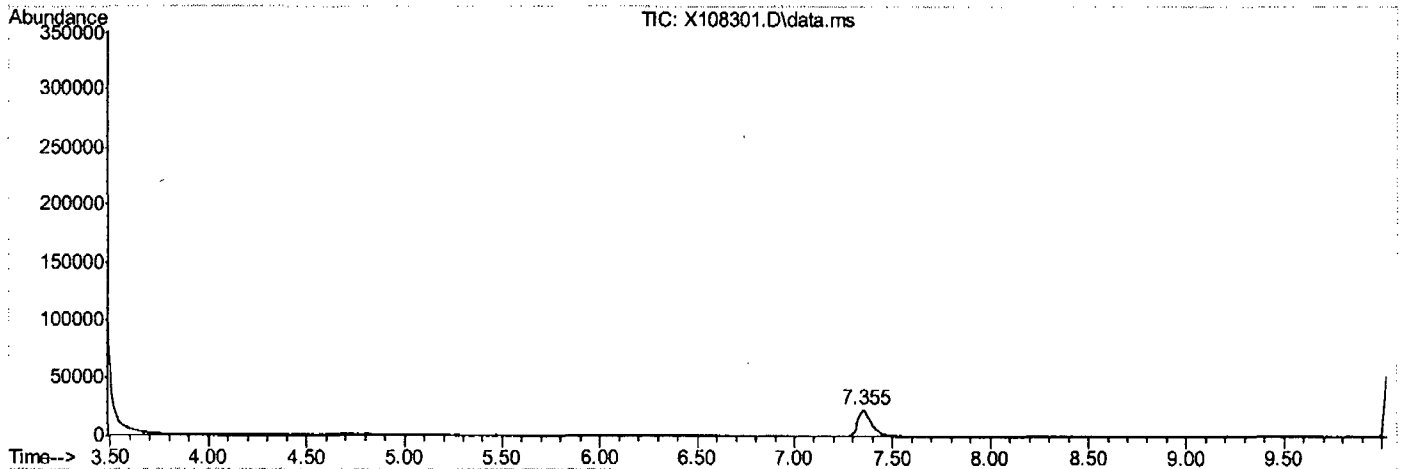
Sum of corrected areas: 3597823

LSC Report - Integrated Chromatogram

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

TIC Library : C:\DATABASE\NBS75K.L
 TIC Integration Parameters: Lscint.p



Tentatively Identified Compound (LSC) summary

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

TIC Library : C:\DATABASE\NBS75K.L
 TIC Integration Parameters: Lscint.p

				---Internal Standard---				
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected

**ACCUTEST.****VOLATILE ANALYSIS LOG**Batch ID: VX 4516Date: 9/14/2010Print Analyst Name: AUSTIN PARKAnalyst Signature: JP**Standard Data**

Lot #	Description	Conc.
010-002-146	ALBU	100ppm
010-002-03	ST-ALBU	↓
010-002-07	INT	100ppm
010-002-174	SUR	100ppm

Standard Data

Lot #	Description	Conc.
010-002-127	STD-A	100ppm
↓ -139	B	↓
010-002-11	C	↓
010-002-148	ST-A	↓
010-002-12	C	↓

Columns: ZB624Method V8260Initial Cal. Method MAX 4503 MAX 4516
JP 9/14/10

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: JPDate: 9/17/10

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
X	106943	BFB				1							QC		
	106944	1C4516-1				2							QC	10ul/50ml 100 STD-A+B+C ALBU SURGATE	
	106945	1C4516-5				3							QC	5ul/50ml 100	
	106946	1C4516-2				4							QC	2ul/50ml 100	
	106947	1C4516-0.5				5							QC	0.5ul/50ml 100	
	106948	1C4516-10 JP 9/14/10				6							QC	10ul/50ml 100	
	106949	1C4516-20				7							QC	10ul/50ml 100 STD-A+B+C ALBU SURGATE	
	106950	1C4516-50				8							QC	10ul/50ml 100	
	106951	1C4516-50				9							QC	10ul/50ml 100 STD-A+B+C ALBU SURGATE	
	106952	1C4516-100				10							QC	10ul/50ml 100	
	106953	1C4516-200				11							QC	10ul/50ml 100 JP 9/14/10	
	106954	1B				12							QC		
	106955 JP 9/14/10														
JP 9/14/2010															

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Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.

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Form: OR001-9

Rev. Date: 2/14/2007

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VOLATILE ANALYSIS LOG

Batch ID: VX 4575Print Analyst Name: AUSTIN PARRISAnalyst Signature: JIPDate: 10/23/2010

Standard Data

Standard Data

Lot #	Description	Conc.
110-201-15	ACETONE	1000ppm
-55	EXT. ACETONE	↓
-96	INT. ACETONE	1000ppm
-95	VINYL CHLORIDE	1000ppm

Lot #	Description	Conc.
010-ALC-10	STD. A	1000ppm
-16	↓ D	
-93	↓ C	
-04	EXT. A	
-92	↓ C	

Columns: Z66-24 (6mm x 250um x 1.4um)Method: V6260Initial Cal. Method: MX 4516

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: hpr. mcl.Date: 11/25/10

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
	108251	15F3				1							✓		11.40 PM
	108252	CC 4516-20				2							MT	new sample STD. A10-C ACETONE VINYL CHLORIDE	
	108253	CC 4516-20				3							✓	↓	
	108254	14F5				4							✓		
	108255	13S				5							✓	new sample EXT. A10-STD. A EXT. ACETONE VINYL CHLORIDE	
	108256	JA58750-1115	3476 APPS, EPOCH INSTR. CAL. VINYLOR	S	30	6	11.0						✓	new sample STD. A10-C ACETONE VINYL CHLORIDE	
	108257	JA58750-1115D	↓		29	7	11.0						✓	↓	
	108258	13				8								cleanup	
	108259	JA58750-11	3476 APPS, EPOCH INSTR. CAL. 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						✓		

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Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.

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Form: OR001-9

Rev. Date: 2/14/2007

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Batch ID: V X 4575

Date: 10/23/2010

Print Analyst Name: AUSTIN PARK

Analyst Signature: JP

Standard Data

Lot #	Description	Conc.
	ACFER	70

Lot #	Description	Conc.
PAGE.	723	

Columns: ZB6-4 (60mm x 25mm x 1.4mm)

Method V826c

Initial Cal. Method *NY4576*

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: 1/15/14

R	Data File	Sample ID	Test	M T X	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L + S U	Status (Data)	Comments	pH <2
	X108268	JAS8750-5	3496 MPCOL-DNACHAL EPICH-VINYLDER	S L	10	18	11.6			/	OK		
	108269	JAS8750-6			10	19	10.5			/	OK		
	108270	JAS8750-7			10	20	9.9			/	OK		
	108271	JAS8750-8			10	21	9.9			/	OK		
	108272	JAS8750-9	✓	✓	10	22	9.1			/	OK	Inhibition	
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* Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

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Form: OR001.9

Rev. Date: 2/14/2007

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VOLATILE ANALYSIS LOG

Batch ID: VX 4577Print Analyst Name: AUSTIN PARKAnalyst Signature: JIPDate: 8/10/25/2016

Standard Data

Lot #	Description	Conc.
10836-15	STANDARD	100ppm
10836-15	STANDARD	↓
10836-15	STANDARD	100ppm
10836-15	STANDARD	100ppm

Standard Data

Lot #	Description	Conc.
10836-15	STD-A	100ppm
10836-15	B	↓
10836-15	STD-A	↓
10836-15	STD-A	↓

Columns: 7B&74 (6mm x 750µm x 1.4µm)Method: V8360Initial Cal. Method: MX 4571

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 #	Sample Amt (ml or g)	MOH amt (ul)	Secondary dilution	L + S U	I S U	Status (Data)	Comments	pH <2
	10836-15	STD-A				1								
	10836-15	STD-B				2								
	10836-15	STD-C				3								
	10836-15	STD-D				4								
	10836-15	STD-E				5								
	10836-15	STD-F				6								
	10836-15	STD-G				7								
	10836-15	STD-H				8								
	10836-15	STD-I				9								
	10836-15	STD-J				10								
	10836-15	STD-K				11								
	10836-15	STD-L				12								
	10836-15	STD-M				13								
	10836-15	STD-N				14								
	10836-15	STD-O				15								
	10836-15	STD-P				16								
	10836-15	STD-Q				17								
	10836-15	STD-R				18								
	10836-15	STD-S				19								
	10836-15	STD-T				20								
	10836-15	STD-U				21								
	10836-15	STD-V				22								
	10836-15	STD-W				23								
	10836-15	STD-X				24								
	10836-15	STD-Y				25								
	10836-15	STD-Z				26								
	10836-15	STD-AA				27								
	10836-15	STD-AB				28								
	10836-15	STD-AC				29								
	10836-15	STD-AD				30								
	10836-15	STD-AE				31								
	10836-15	STD-AF				32								
	10836-15	STD-AG				33								
	10836-15	STD-AH				34								
	10836-15	STD-AI				35								
	10836-15	STD-AJ				36								
	10836-15	STD-AM				37								
	10836-15	STD-AN				38								
	10836-15	STD-AO				39								
	10836-15	STD-AP				40								
	10836-15	STD-AQ				41								
	10836-15	STD-AR				42								
	10836-15	STD-AS				43								
	10836-15	STD-AT				44								
	10836-15	STD-AU				45								
	10836-15	STD-AV				46								
	10836-15	STD-AW				47								
	10836-15	STD-AX				48								
	10836-15	STD-AY				49								
	10836-15	STD-AZ				50								
	10836-15	STD-BA				51								
	10836-15	STD-BB				52								
	10836-15	STD-BC				53								
	10836-15	STD-BD				54								
	10836-15	STD-BE				55								
	10836-15	STD-BF				56								
	10836-15	STD-BG				57								
	10836-15	STD-BH				58								
	10836-15	STD-BI				59								
	10836-15	STD-BJ				60								
	10836-15	STD-BK				61								
	10836-15	STD-BL				62								
	10836-15	STD-BM				63								
	10836-15	STD-BN				64								
	10836-15	STD-BO				65								
	10836-15	STD-BP				66								
	10836-15	STD-BQ				67								
	10836-15	STD-BR				68								
	10836-15	STD-BS				69								
	10836-15	STD-BT				70								
	10836-15	STD-BU				71								
	10836-15	STD-BV				72								
	10836-15	STD-BW				73								
	10836-15	STD-BX				74								
	10836-15	STD-BY				75								
	10836-15	STD-BZ				76								
	10836-15	STD-CA				77								
	10836-15	STD-CB				78								
	10836-15	STD-CC				79								
	10836-15	STD-CD				80								
	10836-15	STD-CE				81								
	10836-15	STD-CE				82								
	10836-15	STD-CE				83								
	10836-15	STD-CE				84								
	10836-15	STD-CE				85								
	10836-15	STD-CE				86								
	10836-15	STD-CE				87								
	10836-15	STD-CE				88								
	10836-15	STD-CE				89								
	10836-15	STD-CE				90								
	10836-15	STD-CE				91								
	10836-15	STD-CE				92								
	10836-15	STD-CE				93								
	10836-15	STD-CE				94								
	10836-15	STD-CE				95								
	10836-15	STD-CE				96								
	10836-15	STD-CE				97								
	10836-15	STD-CE				98								
	10836-15	STD-CE				99								
	10836-15	STD-CE				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 > 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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202



Batch ID: Vx 4577

Analyst Signature: WJF

date: 10/28/2010

Standard Data

Lot #	Description	Conc.
	REF-12	TC

Lot #	Description	Conc.
PALTE	231	

Columns: ZB (24 (60m x 2.0mm x 1-4µm))

Method V826c

Initial Cal. Method *Box 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:

Date: 10/26/12

R	Data File	Sample ID	Test	M I X	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L +	I S U	Status (Data)	Comments	pH* < 2
	108357	JA58669-1	2494 NJSCOB	S E	6	18	5.4					W	OK	
	108358	JA59309-1	2495 TECH1410		5	19	4.8					W	OK	
	108356	JA59309-2			5	20	5.9					W	OK	
	108359	JA59309-3			5	21	5.4					W	OK	11-41
	108358	JA59309-4			5	22	5.1					W	OK	
	108359	JA59309-5			5	23	5.3					W	OK	

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.

1. 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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MS-SVOA

Semivolatile Internal Standard Area Summary

Page 1 of 2

Job Number: JA58750A
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

	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 ^a	140978	5.56	524230	7.48	290968	10.24	457390	12.53	445010	16.34	365040	17.99
Lower Limit ^b	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
ZZZZZZ	76764	5.07	282595	6.98	157850	9.73	253333	12.03	230239	15.84	196319	17.49
JA58750-1T												
ZZZZZZ	91288	5.07	357239	6.98	206553	9.73	329581	12.03	300590	15.84	249058	17.49
JA58750-2T												
ZZZZZZ	71112	5.07	275492	6.98	152421	9.73	243641	12.03	232807	15.84	197801	17.49
JA58750-3T												
ZZZZZZ	115007	5.07	445685	6.98	262077	9.73	429490	12.03	413049	15.84	340039	17.49
JA58750-4T												
ZZZZZZ	66946	5.07	254324	6.98	140896	9.73	220985	12.03	197467	15.84	162099	17.49
JA58750-5T												
ZZZZZZ	112015	5.07	428837	6.98	244248	9.73	396123	12.03	361454	15.84	300851	17.49
JA58750-6T												
ZZZZZZ	81431	5.06	311180	6.98	176191	9.73	286173	12.03	265742	15.84	220807	17.49
JA58750-8T												
ZZZZZZ	92890	5.07	352478	6.98	205101	9.73	324158	12.02	298743	15.84	251392	17.49
JA58750-9T												
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
ZZZZZZ	77826	5.07	308755	6.98	185155	9.73	292369	12.03	256378	15.84	204719	17.49
JA58750-13T												
ZZZZZZ	137186 ^c	5.06	538629 ^c	6.98	314632 ^c	9.74	509405 ^c	12.03	459837 ^c	15.84	359975 ^c	17.49
JA58750-14T												
ZZZZZZ	89757	5.06	355880	6.98	209707	9.73	332344	12.03	294806	15.84	227089	17.49
JA58750-15T												
ZZZZZZ	113197	5.07	442313	6.98	257789	9.73	416210	12.03	375326	15.84	315785	17.49
JA58750-16T												
ZZZZZZ	140532 ^c	5.06	549370 ^c	6.98	321286 ^c	9.73	506683 ^c	12.03	464414 ^c	15.84	390040 ^c	17.49
JA58750-17T												
ZZZZZZ	68849	5.07	264325	6.98	155461	9.73	250396	12.03	231783	15.84	188786	17.49
JA58750-18T												
ZZZZZZ	81709	5.07	356107	6.99	207066	9.75	331805	12.04	286611	15.84	248731	17.49

Semivolatile Internal Standard Area Summary

Page 2 of 2

Job Number: JA58750A

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 Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	73534	5.07	288500	6.98	170694	9.73	267932	12.03	245630	15.84	199028	17.49
JA58750-7T												

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.

Semivolatile Internal Standard Area Summary

Page 1 of 1

Job Number: JA58750A

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 ^a	234752	5.55	867640	7.47	466734	10.22	725590	12.51	749762	16.32	608256	17.97
Lower Limit ^b	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
ZZZZZZ	113447	5.05	425386	6.96	234483	9.72	366598	12.00	329246	15.82	268566	17.47
JA58750-10T												
ZZZZZZ	94389	5.05	355770	6.96	199488	9.72	308016	12.00	287939	15.82	219233	17.47
JA58750-12T												
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: JA58750A

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
JA58750-1T	2P2252R.D	45.0	35.0	36.0	52.0	51.0	53.0
JA58750-2T	2P2253R.D	53.0	48.0	44.0	58.0	54.0	66.0
JA58750-3T	2P2254R.D	44.0	37.0	38.0	49.0	49.0	58.0
JA58750-4T	2P2255R.D	41.0	34.0	38.0	45.0	42.0	57.0
JA58750-5T	2P2256R.D	48.0	39.0	38.0	53.0	51.0	68.0
JA58750-6T	2P2257R.D	63.0	56.0	50.0	70.0	65.0	79.0
JA58750-7T	2P2270R.D	54.0	44.0	41.0	53.0	49.0	61.0
JA58750-8T	2P2258R.D	44.0	36.0	41.0	48.0	48.0	64.0
JA58750-9T	2P2259R.D	44.0	36.0	38.0	50.0	47.0	62.0
JA58750-10T	2P2280R.D	54.0	50.0	45.0	61.0	57.0	68.0
JA58750-11T	2P2261R.D	55.0	48.0	44.0	58.0	57.0	71.0
JA58750-12T	2P2281R.D	38.0	34.0	35.0	41.0	39.0	53.0
JA58750-13T	2P2264R.D	47.0	35.0	38.0	49.0	49.0	70.0
JA58750-14T	2P2265R.D	94.0	78.0	60.0	98.0	92.0	107.0
JA58750-15T	2P2266R.D	59.0	47.0	39.0	59.0	57.0	72.0
JA58750-16T	2P2267R.D	55.0	46.0	49.0	63.0	60.0	72.0
JA58750-17T	2P2268R.D	50.0	41.0	40.0	53.0	48.0	58.0
JA58750-18T	2P2269R.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%

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-Nitropheno	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	5.7

Initial Calibration Summary

Page 2 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

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
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----- 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[a]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-----

210

Initial Calibration Summary

Page 3 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

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

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

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
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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

Initial Calibration Verification

Page 1 of 2

Job Number: JA58750
 Account: ENSRMAA AECOM, INC.
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P118-ICV117
 Lab FileID: 2P2057.D

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

Page 2 of 2

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P118-ICV117

Lab FileID: 2P2057.D

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

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

SPCC's out = 0 CCC's out = 0

2p2050.D M2P117.M

Tue Oct 26 18:01:59 2010 RPT1

Initial Calibration Verification

Page 1 of 1

Job Number: JA58750
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P118-ICV117
Lab FileID: 2P2059.D

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

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

SPCC's out = 0 CCC's out = 0

2p2050.D M2P117.M

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

SPCC's out = 0 CCC's out = 0

2p2050.D M2P117.M

Thu Oct 21 21:24:38 2010 RPT1

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.MSPCC's out = 0 CCC's out = 0
Wed Dec 22 15:08:34 2010 RPT1

Initial Calibration Verification

Page 1 of 2

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
	----- True	Calc.	% Drift	-----			
60 t	2,4-Dinitrophenol	50.000	46.025	7.9	114	0.00	9.99
	----- AvgRF	CCRF	% Dev	-----			
61 t	4-Nitrophenol	0.189	0.182	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
	----- True	Calc.	% Drift	-----			
70 t	4,6-Dinitro-2-methylpheno	50.000	42.205	15.6	121	0.00	10.86

Initial Calibration Verification

Page 2 of 2

Job Number: JA58750

Sample: E2P119-ICV118

Account: ENSRMAA AECOM, INC.

Lab FileID: 2P2064.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

		True	Calc.	% Drift			
76 t	Pentachlorophenol	50.000	43.878	12.2	118	0.00	11.95

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

2p2050.D M2P117.M

Wed Oct 27 10:03:38 2010 RPT1

Continuing Calibration Summary

Page 1 of 3

Job Number: JA58750
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P127-CC117
Lab FileID: 2P2248.D

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

Page 2 of 3

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P127-CC117

Lab FileID: 2P2248.D

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	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

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

Continuing Calibration Summary

Page 1 of 1

Job Number: JA58750
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P127-CC118
Lab FileID: 2P2249.D

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
2p2051.D M2P117.M

SPCC's out = 0 CCC's out = 0
Wed Nov 03 09:36:40 2010 RPT1

Continuing Calibration Summary

Page 1 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

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 : cc117-25

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

Page 2 of 3

Job Number: JA58750

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P128-CC117

Lab FileID: 2P2278.D

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

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

2p2051.D M2P117.M

SPCC's out = 0 CCC's out = 0

Wed Nov 03 14:54:51 2010 RPT1

Continuing Calibration Summary

Page 1 of 1

Job Number: JA58750
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E2P128-CC118
Lab FileID: 2P2279.D

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
2p2051.D M2P117.M

SPCC's out = 0 CCC's out = 0
Wed Nov 03 14:57:26 2010 RPT1

Data Path : C:\msdchem\1\DATA\2p178\
 Data File : 2p3237.D
 Acq On : 20 Dec 2010 11:34 am
 Operator : kristis
 Sample : ccl171-50 appendix iv
 Misc : op47336,e2p178,35.1,,,1,1
 ALS Vial : 20 Sample Multiplier: 1

FOR JA58750

Quant Time: Dec 20 18:56:55 2010
 Quant Method : C:\msdchem\1\METHODS\m2p178ap9.m
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Dec 20 18:55:44 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4A	4.417	152	753810	40.00	ppb	0.00
13) Naphthalene-d8A	6.327	136	2655206	40.00	ppb	0.00
24) Acenaphthene-d10A	9.049	164	1659993	40.00	ppb	0.00
37) Phenanthrene-d10A	11.333	188	3000104	40.00	ppb	0.00
53) Chrysene-d12A	15.221	240	3539899	40.00	ppb	0.00
62) Perylene-d12A	16.890	264	3043005	40.00	ppb	0.00

System Monitoring Compounds

3) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	21 - 100	Recovery	=	0.00%#
4) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount	50.000	Range	10 - 94	Recovery	=	0.00%#
14) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount	50.000	Range	35 - 114	Recovery	=	0.00%#
25) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000	Range	43 - 116	Recovery	=	0.00%#
38) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 123	Recovery	=	0.00%#
54) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	33 - 141	Recovery	=	0.00%#

Target Compounds

						Qvalue
2) 2-Picoline	1.839	93	1179809	49.55	ppb	99
5) Pentachloroethane	3.979	167	536623	50.00	ppb	95
6) Methyl methanesulfonate	2.524	80	684419	50.43	ppb	87
7) N-Nitrosodiethylamine	3.010	102	517364	49.48	ppb	85
8) N-Nitrosomethylethylamine	2.064	42	555843m	49.91	ppb	
9) Ethyl methanesulfonate	3.519	79	853284	49.24	ppb	96
10) N-Nitrosopyrrolidine	5.112	41	521086	50.00	ppb	93
11) N-Nitrosomorpholine	5.155	56	586502	50.00	ppb	91
12) o-Toluidine	5.182	106	1637308	50.08	ppb	# 27
15) O,O,O-Triethyl phospho...	6.166	198	643535	50.36	ppb	98
16) N-Nitrosopiperidine	5.572	42	709473	50.36	ppb	92
17) 2,6-Dichlorophenol	6.583	162	934020	50.58	ppb	94
18) A,A-Dimethylphenethyla...	6.268	58	1770207	46.67	ppb	100
19) Hexachloropropene	6.546	213	925964	50.36	ppb	98
20) p-Phenylenediamine	7.150	108	186246	33.69	ppb	88
21) N-Nitrosodi-n-butylamine	7.166	84	769241	50.36	ppb	93
22) Safrole	7.391	162	912277	50.56	ppb	89
23) Isosafrole	8.172	162	2930051	50.54	ppb	# 42
26) Thionazin	10.092	143	330498	50.00	ppb	89
27) Tetraethyl dithiopyrop...	10.691	322	485054	50.00	ppb	100
28) Phorate	10.729	75	1461882	50.00	ppb	100
29) Phenacetin	10.878	108	1386645	50.00	ppb	99
30) 1,2,4,5-Tetrachloroben...	7.765	216	1265422	50.00	ppb	100
31) 1,4-Naphthoquinone	8.504	158	677629	50.00	ppb	79
32) m-Dinitrobenzene	8.873	168	402012	50.00	ppb	88
33) Pentachlorobenzene	9.402	250	1171324	50.00	ppb	100
34) 2-Naphthylamine	9.520	143	1790133	50.00	ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p178\
 Data File : 2p3237.D
 Acq On : 20 Dec 2010 11:34 am
 Operator : kristis
 Sample : cc171-50 appendix iv
 Misc : op47336,e2p178,35.1,,,1,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 20 18:56:55 2010
 Quant Method : C:\msdchem\1\METHODS\m2p178ap9.m
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Dec 20 18:55:44 2010
 Response via : Initial Calibration

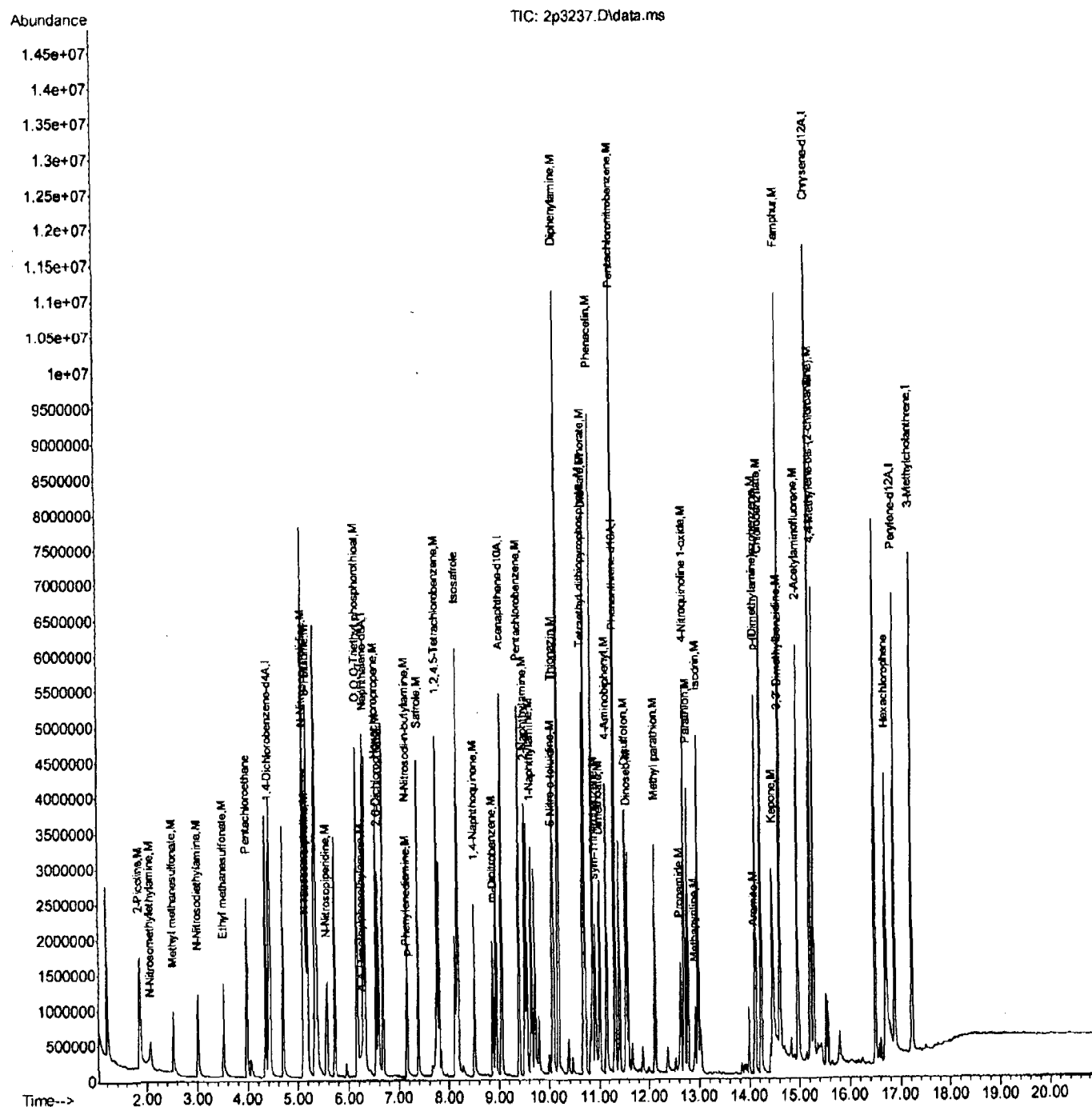
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 1-Naphthylamine	9.648	143	1841471	50.00	ppb	93
36) 5-Nitro-o-toluidine	10.071	152	669798	50.00	ppb	93
39) Disulfoton	11.547	88	1015068	50.07	ppb	100
40) Dinoseb	11.584	211	674816	50.07	ppb	89
41) Dimethoate	11.017	87	853824	50.08	ppb	84
42) 4-Aminobiphenyl	11.156	169	2338023	50.07	ppb	99
43) Methyl parathion	12.125	125	667785	50.07	ppb	94
44) Parathion	12.777	109	525575	50.07	ppb	92
45) Diphenylamine	10.199	169	4097033	50.07	ppb	99
46) Isodrin	12.980	193	451211	50.07	ppb	81
47) Diallate	10.723	86	883735	50.06	ppb	79
48) Pentachloronitrobenzene	11.322	295	386754	100.15	ppb	96
49) Pronamide	12.633	173	616408	50.07	ppb	97
50) 4-Nitroquinoline 1-oxide	12.713	190	1143392	198.18	ppb	78
51) Methapyriline	12.921	58	765349m	50.15	ppb	
52) sym-Trinitrobenzene	10.926	213	378794	49.93	ppb	# 80
55) Aramite	14.109	185	121321	100.00	ppb	94
56) p-(Dimethylamine)azobe...	14.130	120	1138434	50.00	ppb	82
57) Kepone	14.467	272	1259930	273.15	ppb	97
58) Famphur	14.622	218	4565121	299.88	ppb	98
59) 2-Acetylaminofluorene	14.970	181	1807297	50.00	ppb	98
60) 3,3'-Dimethylbenzidine	14.601	212	211752	47.71	ppb	99
61) Chlorobenzilate	14.237	251	1410761	50.00	ppb	96
63) 4,4-Methylene-bis-(2-c...	15.280	266	298544	50.48	ppb	95
64) 3-Methylcholanthrene	17.238	252	978724	50.09	ppb	97
65) Hexachlorophene	16.714	196	60545m	258.30	ppb	

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

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p178\
Data File : 2p3237.D
Acq On : 20 Dec 2010 11:34 am
Operator : kristis
Sample : cc171-50 appendix iv
Misc : op47336,e2p178,35.1,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 20 18:56:55 2010
Quant Method : C:\msdchem\1\METHODS\m2p178ap9.m
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Dec 20 18:55:44 2010
Response via : Initial Calibration



FOR RE-INJECTION ADDITIONAL DATA

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3509.D
 Acq On : 5 Jan 2011 3:37 pm
 Operator : kristis
 Sample : cc193-5
 Misc : op47521,e2p193,ap9
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 07 14:33:17 2011
 Quant Method : C:\msdchem\1\METHODS\m2p193ap9.m
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jan 07 14:32:01 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4A	4.307	152	623663	40.00	ppb	0.00
13) Naphthalene-d8A	6.200	136	2239443	40.00	ppb	0.00
24) Acenaphthene-d10A	8.922	164	1451813	40.00	ppb	0.00
37) Phenanthrene-d10A	11.196	188	2624390	40.00	ppb	0.00
53) Chrysene-d12A	15.105	240	3055855	40.00	ppb	0.00
62) Perylene-d12A	16.769	264	2694333	40.00	ppb	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0d	0.00	ppb	
Spiked Amount 50.000	Range 21	- 100	Recovery	=	0.00%#	
4) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000	Range 10	- 94	Recovery	=	0.00%#	
14) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount 50.000	Range 35	- 114	Recovery	=	0.00%#	
25) 2-Fluorobiphenyl	7.981	172	2476	4.93	ppb	0.00
Spiked Amount 50.000	Range 43	- 116	Recovery	=	9.86%#	
38) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000	Range 10	- 123	Recovery	=	0.00%#	
54) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount 50.000	Range 33	- 141	Recovery	=	0.00%#	
Target Compounds						
2) 2-Picoline	1.787	93	89303	5.00	ppb	Qvalue 100
5) Pentachloroethane	3.873	167	45899	5.00	ppb	100
6) Methyl methanesulfonate	2.456	80	56582	5.00	ppb	100
7) N-Nitrosodiethylamine	2.927	102	36547	5.00	ppb	100
8) N-Nitrosomethylethylamine	2.012	42	36534	5.00	ppb	100
9) Ethyl methanesulfonate	3.445	79	63423	5.00	ppb	100
10) N-Nitrosopyrrolidine	5.002	41	35487	5.00	ppb	100
11) N-Nitrosomorpholine	5.039	56	57466	5.00	ppb	100
12) o-Toluidine	5.077	106	150693	5.00	ppb	100
15) O,O,O-Triethyl phospho...	6.040	198	52290	5.00	ppb	100
16) N-Nitrosopiperidine	5.446	42	67849	5.00	ppb	100
17) 2,6-Dichlorophenol	6.516	162	76613	4.75	ppb	# 1
18) A,A-Dimethylphenethyla...	6.050	58	65297	5.00	ppb	100
19) Hexachloropropene	6.425	213	58271	5.00	ppb	100
20) p-Phenylenediamine	7.163	108	19059	5.00	ppb	100
21) N-Nitrosodi-n-butylamine	7.045	84	61013	5.00	ppb	100
22) Safrole	7.275	162	72372	5.00	ppb	100
23) Isosafrole	7.746	162	6119	5.00	ppb	100
26) Thionazin	9.960	143	27483	5.00	ppb	100
27) Tetraethyl dithiopyrop...	10.559	322	40267	5.00	ppb	100
28) Phorate	10.591	75	117759	5.00	ppb	100
29) Phenacetin	10.752	108	108437	5.00	ppb	100
30) 1,2,4,5-Tetrachloroben...	7.644	216	106435	5.00	ppb	100
31) 1,4-Naphthoquinone	8.420	158	38912	5.00	ppb	100
32) m-Dinitrobenzene	8.805	168	27806	5.00	ppb	100
33) Pentachlorobenzene	9.281	250	104873	5.00	ppb	100
34) 2-Naphthylamine	9.409	143	174500	5.00	ppb	100
35) 1-Naphthylamine	9.543	143	186577	5.00	ppb	100
36) 5-Nitro-o-toluidine	9.976	152	45298	5.00	ppb	100
39) Disulfoton	11.410	88	89677	5.00	ppb	100
40) Dinoseb	11.468	211	13714	5.00	ppb	100
41) Dimethoate	10.880	87	69592	5.00	ppb	100
42) 4-Aminobiphenyl	11.030	169	216515	5.00	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3509.D
 Acq On : 5 Jan 2011 3:37 pm
 Operator : kristis
 Sample : cc193-5
 Misc : op47521,e2p193,ap9
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 07 14:33:17 2011
 Quant Method : C:\msdchem\1\METHODS\m2p193ap9.m
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jan 07 14:32:01 2011
 Response via : Initial Calibration

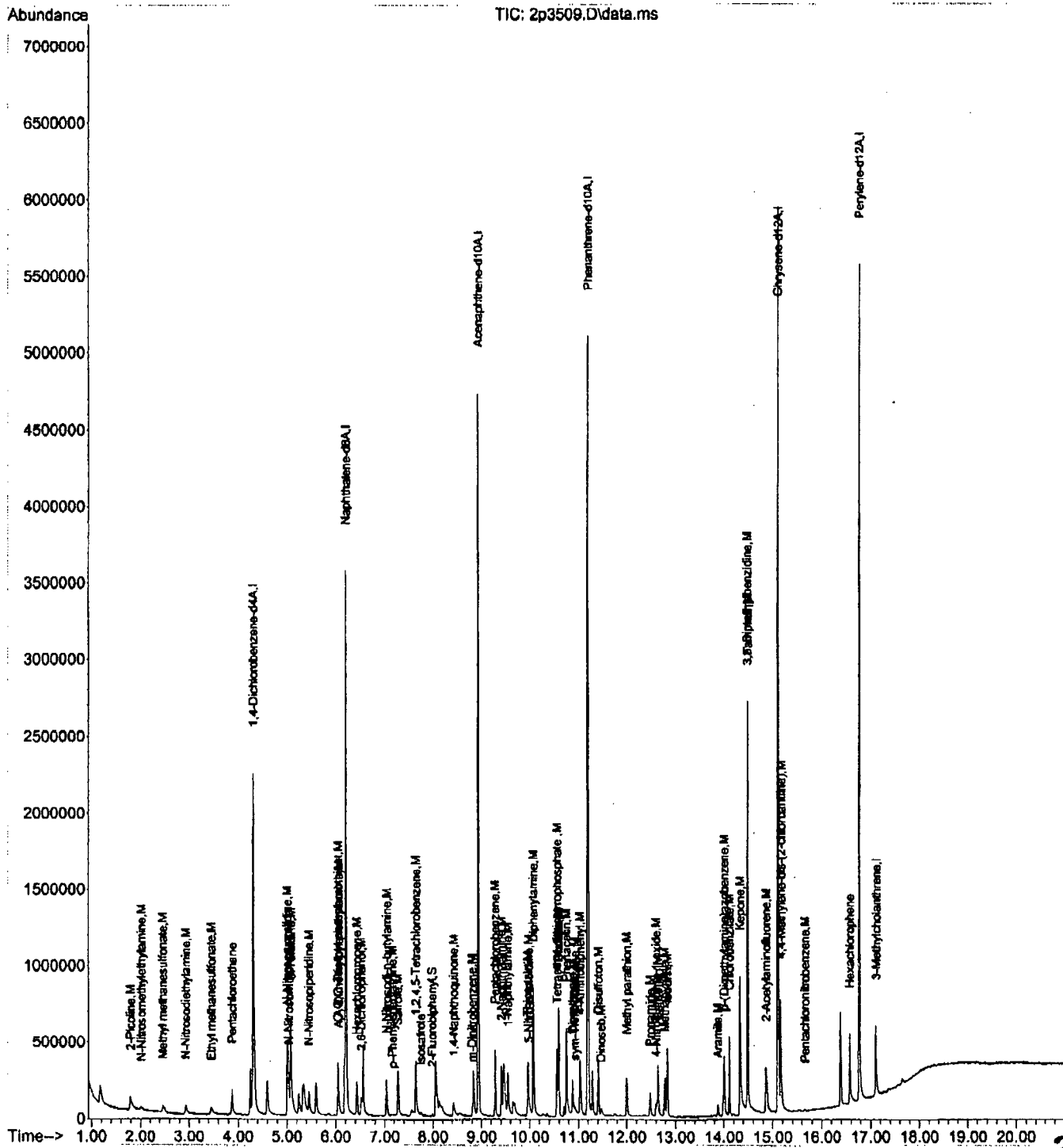
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Methyl parathion	12.003	125	53518	5.00	ppb	100
44) Parathion	12.640	109	42312	5.00	ppb	100
45) Diphenylamine	10.072	169	329676	5.00	ppb	100
46) Isodrin	12.832	193	41085	5.00	ppb	100
47) Diallate	10.591	86	71884	5.00	ppb	100
48) Pentachloronitrobenzene	15.656	295	1485	10.00	ppb	100
49) Pronamide	12.485	173	54047	5.00	ppb	100
50) 4-Nitroquinoline 1-oxide	12.602	190	15962	20.00	ppb	100
51) Methapyriline	12.779	58	102750	5.00	ppb	100
52) sym-Trinitrobenzene	10.923	213	11932	5.00	ppb	100
55) Aramite	13.870	185	7583	10.00	ppb	100
56) p-(Dimethylamine)azobe...	14.004	120	87544	5.00	ppb	100
57) Kepone	14.330	272	154973	30.00	ppb	100
58) Famphur	14.485	218	833640	30.00	ppb	100
59) 2-Acetylaminofluorene	14.859	181	137853	5.00	ppb	100
60) 3,3'-Dimethylbenzidine	14.480	212	197261	5.00	ppb	100
61) Chlorobenzilate	14.111	251	112714	5.00	ppb	100
63) 4,4-Methylene-bis-(2-c...	15.164	266	35433	5.00	ppb	100
64) 3-Methylcholanthrene	17.117	252	77894	5.00	ppb	100
65) Hexachlorophene	16.582	196	2417	30.00	ppb #	100

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

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
Data File : 2p3509.D
Acq On : 5 Jan 2011 3:37 pm
Operator : kristis
Sample : cc193-5
Misc : op47521,e2p193,ap9
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 07 14:33:17 2011
Quant Method : C:\msdchem\1\METHODS\m2p193ap9.m
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jan 07 14:32:01 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3524.D
 Acq On : 6 Jan 2011 11:08 am
 Operator : kristis
 Sample : ccl94-5
 Misc : op47521,e2p194,1000,,,1,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 07 15:39:39 2011
 Quant Method : C:\msdchem\1\METHODS\m2p193ap9.m
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jan 07 14:32:01 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4A	4.285	152	579040	40.00	ppb	-0.02
13) Naphthalene-d8A	6.195	136	2017655	40.00	ppb	0.00
24) Acenaphthene-d10A	8.917	164	1321757	40.00	ppb	0.00
37) Phenanthrene-d10A	11.185	188	2378593	40.00	ppb	-0.01
53) Chrysene-d12A	15.100	240	2793519	40.00	ppb	0.00
62) Perylene-d12A	16.769	264	2470494	40.00	ppb	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000	Range 21 - 100		Recovery =	0.00%		
4) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000	Range 10 - 94		Recovery =	0.00%		
14) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount 50.000	Range 35 - 114		Recovery =	0.00%		
25) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000	Range 43 - 116		Recovery =	0.00%		
38) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000	Range 10 - 123		Recovery =	0.00%		
54) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000	Range 33 - 141		Recovery =	0.00%		
Target Compounds						
						Qvalue
2) 2-Picoline	1.745	93	81524	4.92	ppb	88
5) Pentachloroethane	3.857	167	43091	5.06	ppb	97
6) Methyl methanesulfonate	2.424	80	55978	5.33	ppb	90
7) N-Nitrosodiethylamine	2.900	102	33369	4.92	ppb	88
8) N-Nitrosomethylethylamine	1.969	42	29622	4.37	ppb	83
9) Ethyl methanesulfonate	3.429	79	60060	5.10	ppb	96
10) N-Nitrosopyrrolidine	4.997	41	32692	4.96	ppb	95
11) N-Nitrosomorpholine	5.029	56	52258	4.90	ppb	91
12) o-Toluidine	5.061	106	130978	4.68	ppb	91
15) O,O,O-Triethyl phospho...	6.034	198	48902	5.19	ppb	93
16) N-Nitrosopiperidine	5.435	42	62266	5.09	ppb	94
17) 2,6-Dichlorophenol	6.510	162	64516	4.44	ppb	# 1
18) A,A-Dimethylphenethyla...	6.104	58	14693	1.25	ppb	100
19) Hexachloropropene	6.414	213	65734	6.26	ppb	98
20) p-Phenylenediamine	7.163	108	1977	0.58	ppb	66
21) N-Nitrosodi-n-butylamine	7.040	84	53322	4.85	ppb	97
22) Safrole	7.270	162	62803	4.82	ppb	94
23) Isosafrole	7.740	162	5133	4.66	ppb	95
26) Thionazin	9.955	143	24852	4.97	ppb	89
27) Tetraethyl dithiopyrop...	10.554	322	34394	4.69	ppb	100
28) Phorate	10.586	75	106489	4.97	ppb	100
29) Phenacetin	10.752	108	91262	4.62	ppb	92
30) 1,2,4,5-Tetrachloroben...	7.644	216	97448	5.03	ppb	98
31) 1,4-Naphthoquinone	8.414	158	33864	4.78	ppb	87
32) m-Dinitrobenzene	8.810	168	20404	4.03	ppb	# 77
33) Pentachlorobenzene	9.275	250	94152	4.93	ppb	94
34) 2-Naphthylamine	9.404	143	152435	4.80	ppb	96
35) 1-Naphthylamine	9.532	143	156483	4.61	ppb	94
36) 5-Nitro-o-toluidine	9.971	152	48430	5.87	ppb	91
39) Disulfoton	11.404	88	77746	4.78	ppb	95
40) Dinoseb	11.463	211	23278	9.36	ppb	96
41) Dimethoate	10.875	87	62150	4.93	ppb	92
42) 4-Aminobiphenyl	11.024	169	184199	4.69	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3524.D
 Acq On : 6 Jan 2011 11:08 am
 Operator : kristis
 Sample : cc194-5
 Misc : op47521,e2p194,1000,,,1,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 07 15:39:39 2011
 Quant Method : C:\msdchem\1\METHODS\m2p193ap9.m
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Jan 07 14:32:01 2011
 Response via : Initial Calibration

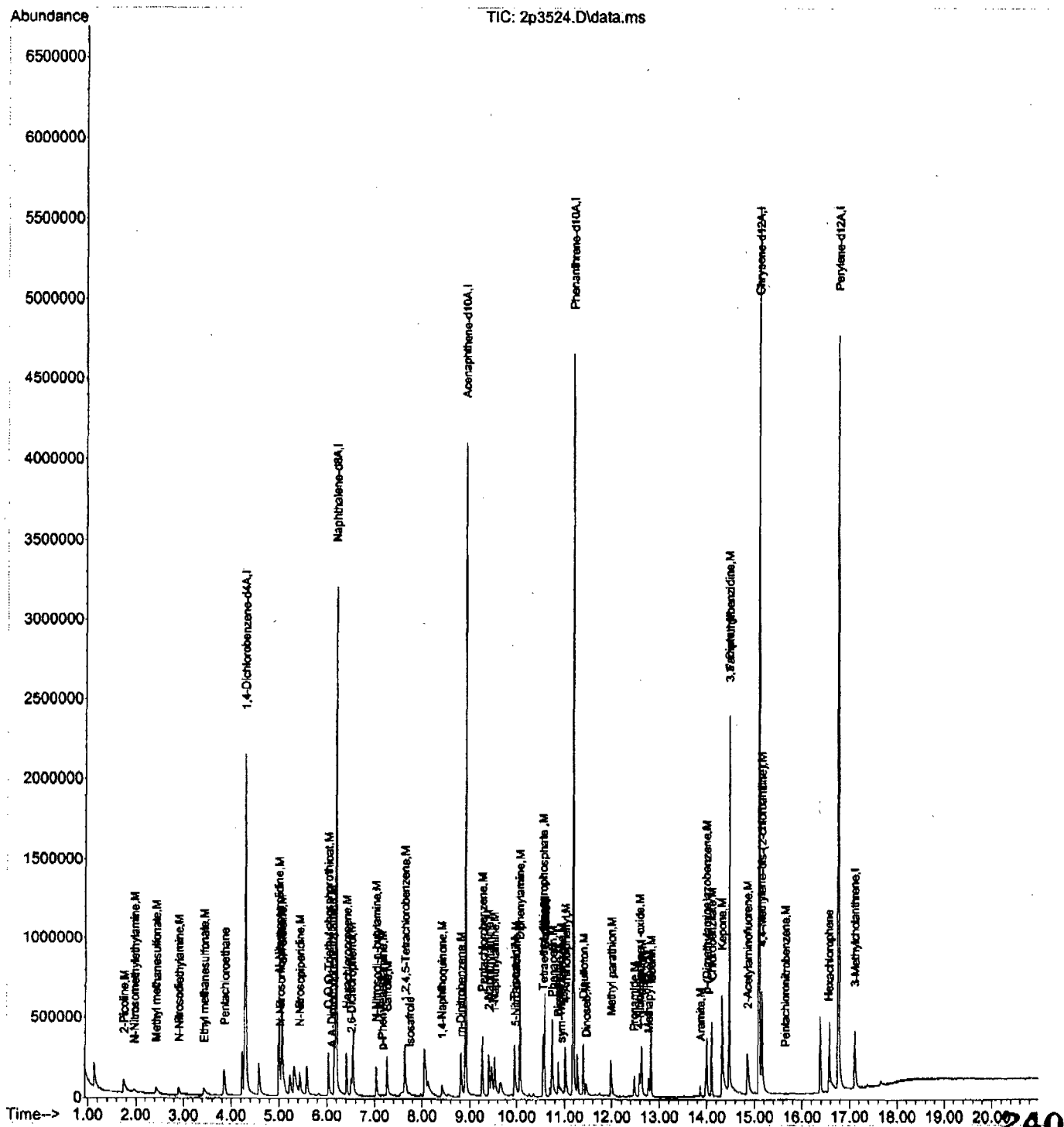
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Methyl parathion	11.993	125	48195	4.97	ppb	93
44) Parathion	12.634	109	36800	4.80	ppb	94
45) Diphenylamine	10.067	169	292833	4.90	ppb	97
46) Isodrin	12.827	193	36911	4.96	ppb	91
47) Diallate	10.586	86	63826	4.90	ppb	96
48) Pentachloronitrobenzene	15.651	295	1079	8.02	ppb	77
49) Pronamide	12.474	173	45722	4.67	ppb	95
50) 4-Nitroquinoline 1-oxide	12.592	190	27312	37.76	ppb	89
51) Methapyriline	12.779	58	52717	2.83	ppb	93
52) sym-Trinitrobenzene	10.928	213	14112	6.52	ppb	93
55) Aramite	13.870	185	6537	9.43	ppb	87
56) p-(Dimethylamine)azobe...	14.004	120	79897	4.99	ppb	97
57) Kepone	14.325	272	159875	33.86	ppb	96
58) Famphur	14.480	218	755799	29.75	ppb	99
59) 2-Acetylaminofluorene	14.859	181	120205	4.77	ppb	92
60) 3,3'-Dimethylbenzidine	14.474	212	146253	4.06	ppb	98
61) Chlorobenzilate	14.111	251	99873	4.85	ppb	95
63) 4,4-Methylene-bis-(2-c...	15.159	266	33562	5.17	ppb	99
64) 3-Methylcholanthrene	17.117	252	63292	4.43	ppb	100
65) Hexachlorophene	16.571	196	2075	28.09	ppb #	93

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

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
Data File : 2p3524.D
Acq On : 6 Jan 2011 11:08 am
Operator : kristis
Sample : cc194-5
Misc : op47521,e2p194,1000,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 07 15:39:39 2011
Quant Method : C:\msdchem\1\METHODS\m2p193ap9.m
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jan 07 14:32:01 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3510.D
 Acq On : 5 Jan 2011 4:27 pm
 Operator : kristis
 Sample : ja58750-1
 Misc : op46301,e2p193,35.0,,,1,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 07 15:25:59 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.296	152	636094	40.00	ppb	0.00
24) Naphthalene-d8	6.200	136	2441928	40.00	ppb	-0.01
47) Acenaphthene-d10	8.922	164	1600559	40.00	ppb	-0.01
69) Phenanthrene-d10	11.195	188	2848590	40.00	ppb	-0.01
83) Chrysene-d12	15.105	240	3232061	40.00	ppb	-0.01
92) Perylene-d12	16.774	264	2763308	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.296	152	636094	40.00	ppb	0.00
104) Acenaphthene-d10a	8.922	164	1600559	40.00	ppb	-0.01
106) Chrysene-d12a	15.105	240	3232061	40.00	ppb	-0.01
108) Acenaphthene-d10b	8.922	164	1600559	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.814	112	446643	27.12	ppb	0.01
Spiked Amount	50.000		Recovery	=	54.24%	
8) Phenol-d5	4.258	99	584901	24.31	ppb	0.00
Spiked Amount	50.000		Recovery	=	48.62%	
25) Nitrobenzene-d5	5.194	82	667388	27.49	ppb	0.00
Spiked Amount	50.000		Recovery	=	54.98%	
51) 2-Fluorobiphenyl	7.960	172	1419634	25.31	ppb	-0.02
Spiked Amount	50.000		Recovery	=	50.62%	
73) 2,4,6-Tribromophenol	10.222	330	193016	26.50	ppb	0.00
Spiked Amount	50.000		Recovery	=	53.00%	
85) Terphenyl-d14	13.768	244	1513050	26.50	ppb	0.00
Spiked Amount	50.000		Recovery	=	53.00%	

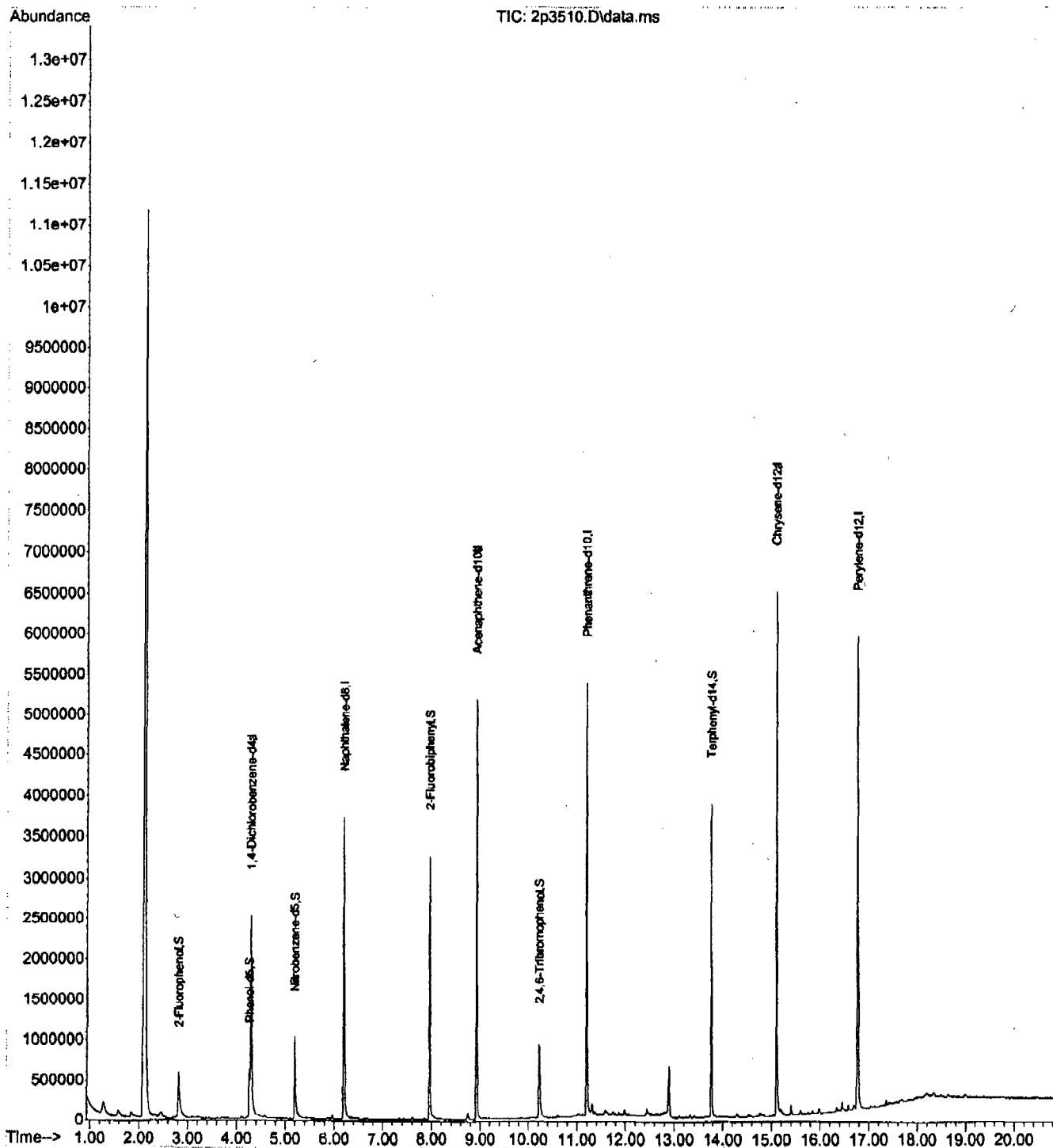
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3510.D
 Acq On : 5 Jan 2011 4:27 pm
 Operator : kristis
 Sample : ja58750-1
 Misc : op46301,e2p193,35.0,,,1,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 07 15:25:59 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3511.D
 Acq On : 5 Jan 2011 4:53 pm
 Operator : kristis
 Sample : ja58750-2
 Misc : op46301,e2p193,35.2,,,1,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 07 15:26:37 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.301	152	575054	40.00	ppb	0.00
24) Naphthalene-d8	6.200	136	2134496	40.00	ppb	-0.01
47) Acenaphthene-d10	8.922	164	1413982	40.00	ppb	-0.01
69) Phenanthrene-d10	11.196	188	2495005	40.00	ppb	-0.01
83) Chrysene-d12	15.105	240	2906348	40.00	ppb	-0.01
92) Perylene-d12	16.774	264	2571087	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.301	152	575054	40.00	ppb	0.00
104) Acenaphthene-d10a	8.922	164	1413982	40.00	ppb	-0.01
106) Chrysene-d12a	15.105	240	2906348	40.00	ppb	-0.01
108) Acenaphthene-d10b	8.922	164	1413982	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.814	112	454049	30.50	ppb	0.01
Spiked Amount 50.000			Recovery	=	61.00%	
8) Phenol-d5	4.264	99	573330	26.36	ppb	0.01
Spiked Amount 50.000			Recovery	=	52.72%	
25) Nitrobenzene-d5	5.200	82	671869	31.66	ppb	0.00
Spiked Amount 50.000			Recovery	=	63.32%	
51) 2-Fluorobiphenyl	7.965	172	1382210	27.90	ppb	-0.01
Spiked Amount 50.000			Recovery	=	55.80%	
73) 2,4,6-Tribromophenol	10.222	330	200330	31.40	ppb	0.00
Spiked Amount 50.000			Recovery	=	62.80%	
85) Terphenyl-d14	13.763	244	1616024	31.48	ppb	0.00
Spiked Amount 50.000			Recovery	=	62.96%	

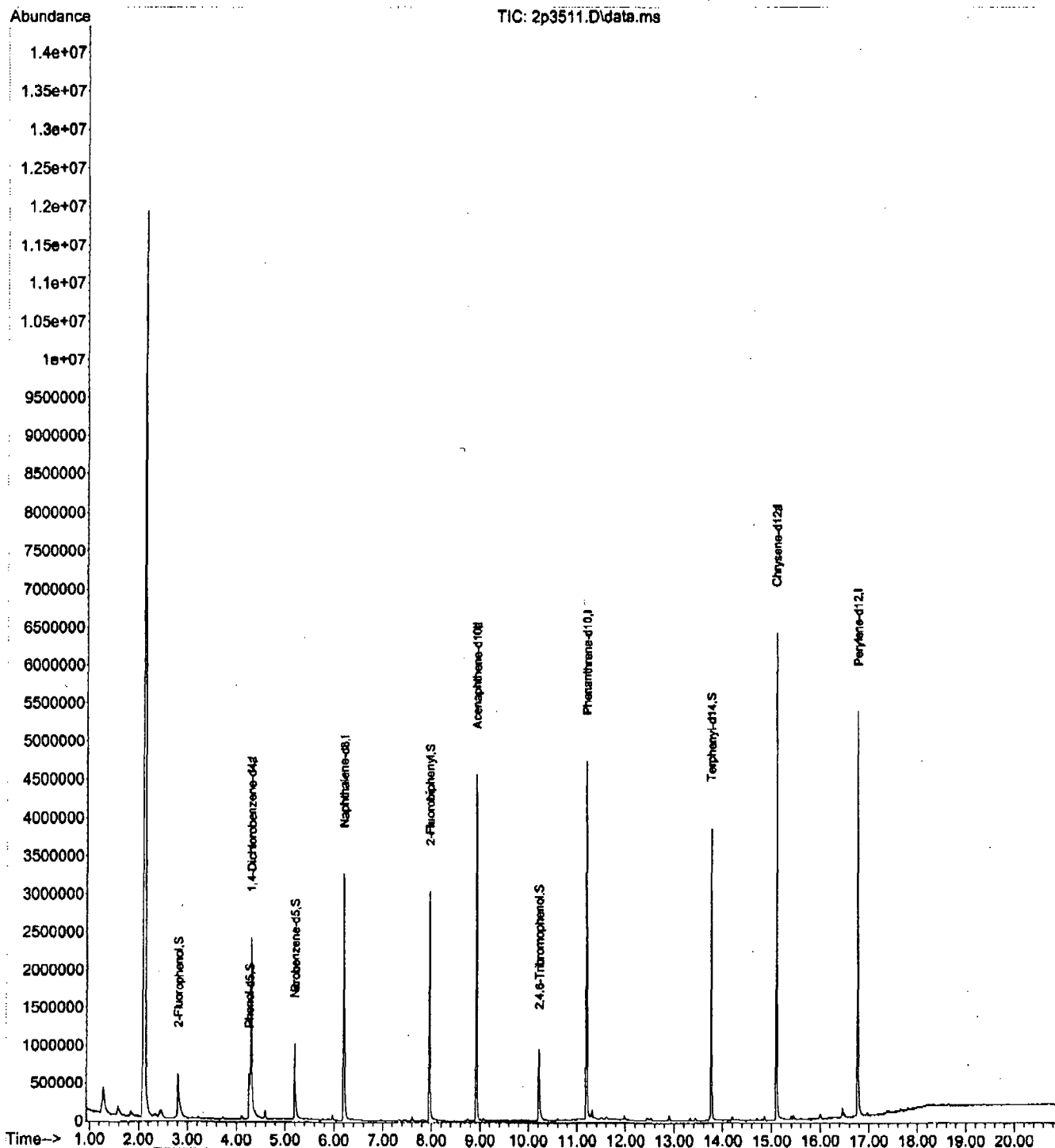
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3511.D
 Acq On : 5 Jan 2011 4:53 pm
 Operator : kristis
 Sample : ja58750-2
 Misc : op46301,e2p193,35.2,,,1,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 07 15:26:37 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3512.D
 Acq On : 5 Jan 2011 5:19 pm
 Operator : kristis
 Sample : ja58750-3
 Misc : op46301,e2p193,35.1,,,1,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 07 15:27:17 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.301	152	662743	40.00	ppb	0.00
24) Naphthalene-d8	6.200	136	2372803	40.00	ppb	-0.01
47) Acenaphthene-d10	8.922	164	1563208	40.00	ppb	-0.01
69) Phenanthrene-d10	11.195	188	2716978	40.00	ppb	-0.01
83) Chrysene-d12	15.105	240	3021600	40.00	ppb	-0.01
92) Perylene-d12	16.774	264	2705691	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.301	152	662743	40.00	ppb	0.00
104) Acenaphthene-d10a	8.922	164	1563208	40.00	ppb	-0.01
106) Chrysene-d12a	15.105	240	3021600	40.00	ppb	-0.01
108) Acenaphthene-d10b	8.922	164	1563208	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.820	112	347016	20.23	ppb	0.02
Spiked Amount 50.000			Recovery =	40.46%		
8) Phenol-d5	4.264	99	501643	20.01	ppb	0.01
Spiked Amount 50.000			Recovery =	40.02%		
25) Nitrobenzene-d5	5.194	82	638975	27.08	ppb	0.00
Spiked Amount 50.000			Recovery =	54.16%		
51) 2-Fluorobiphenyl	7.965	172	1347103	24.59	ppb	-0.01
Spiked Amount 50.000			Recovery =	49.18%		
73) 2,4,6-Tribromophenol	10.227	330	93796	13.50	ppb	0.00
Spiked Amount 50.000			Recovery =	27.00%		
85) Terphenyl-d14	13.763	244	1525907	28.59	ppb	0.00
Spiked Amount 50.000			Recovery =	57.18%		

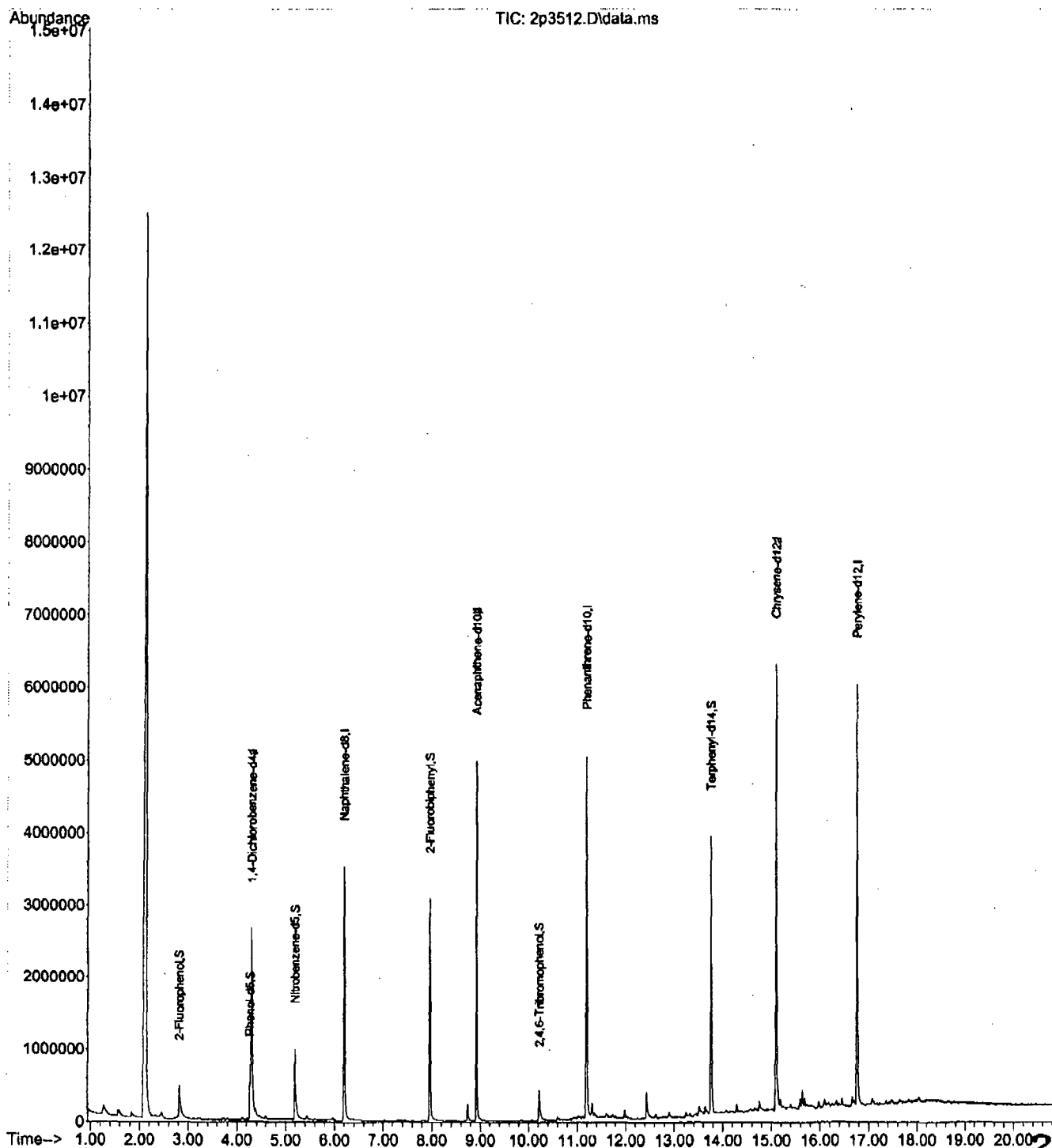
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3512.D
 Acq On : 5 Jan 2011 5:19 pm
 Operator : kristis
 Sample : ja58750-3
 Misc : op46301,e2p193,35.1,,,1,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 07 15:27:17 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3513.D
 Acq On : 5 Jan 2011 5:45 pm
 Operator : kristis
 Sample : ja58750-4
 Misc : op46301,e2p193,35.1,,,1,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 07 15:44:46 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

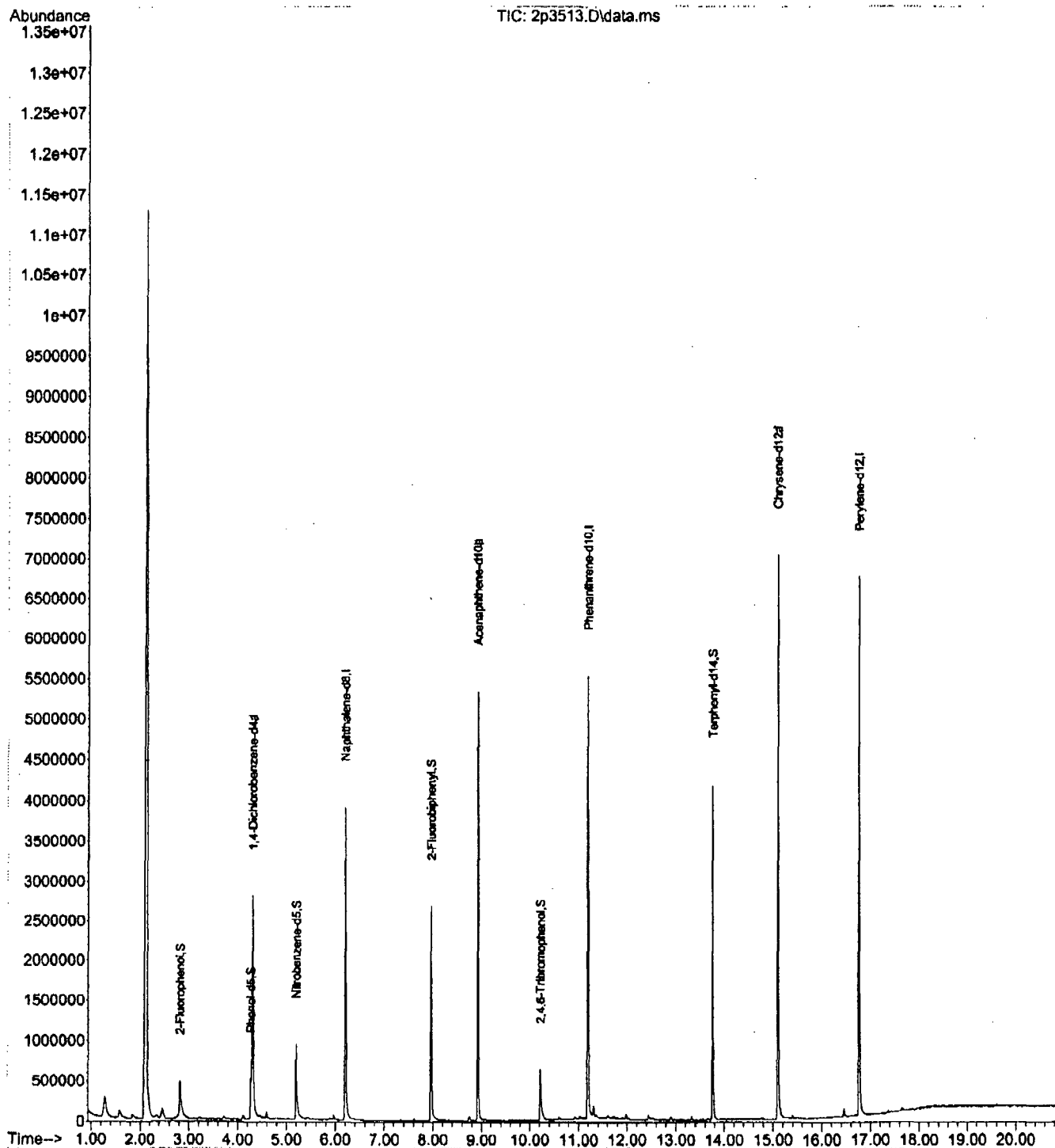
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.301	152	688005	40.00	ppb	0.00
24) Naphthalene-d8	6.200	136	2576583	40.00	ppb	-0.01
47) Acenaphthene-d10	8.922	164	1710103	40.00	ppb	-0.01
69) Phenanthrene-d10	11.196	188	2957721	40.00	ppb	-0.01
83) Chrysene-d12	15.105	240	3539580	40.00	ppb	-0.01
92) Perylene-d12	16.774	264	3143121	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.301	152	688005	40.00	ppb	0.00
104) Acenaphthene-d10a	8.922	164	1710103	40.00	ppb	-0.01
106) Chrysene-d12a	15.105	240	3539580	40.00	ppb	-0.01
108) Acenaphthene-d10b	8.922	164	1710103	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.820	112	368905	20.71	ppb	0.02
Spiked Amount 50.000			Recovery =	41.42%		
8) Phenol-d5	4.269	99	496829	19.09	ppb	0.02
Spiked Amount 50.000			Recovery =	38.18%		
25) Nitrobenzene-d5	5.200	82	629308	24.56	ppb	0.00
Spiked Amount 50.000			Recovery =	49.12%		
51) 2-Fluorobiphenyl	7.965	172	1273806	21.26	ppb	-0.01
Spiked Amount 50.000			Recovery =	42.52%		
73) 2,4,6-Tribromophenol	10.222	330	147333	19.48	ppb	0.00
Spiked Amount 50.000			Recovery =	38.96%		
85) Terphenyl-d14	13.768	244	1742504	27.87	ppb	0.00
Spiked Amount 50.000			Recovery =	55.74%		
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
Data File : 2p3513.D
Acq On : 5 Jan 2011 5:45 pm
Operator : kristis
Sample : ja58750-4
Misc : op46301,e2p193,35.1,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 07 15:44:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:02:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3514.D
 Acq On : 5 Jan 2011 6:11 pm
 Operator : kristis
 Sample : ja58750-5
 Misc : op46301,e2p193,35.1,,,1,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 07 15:28:42 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

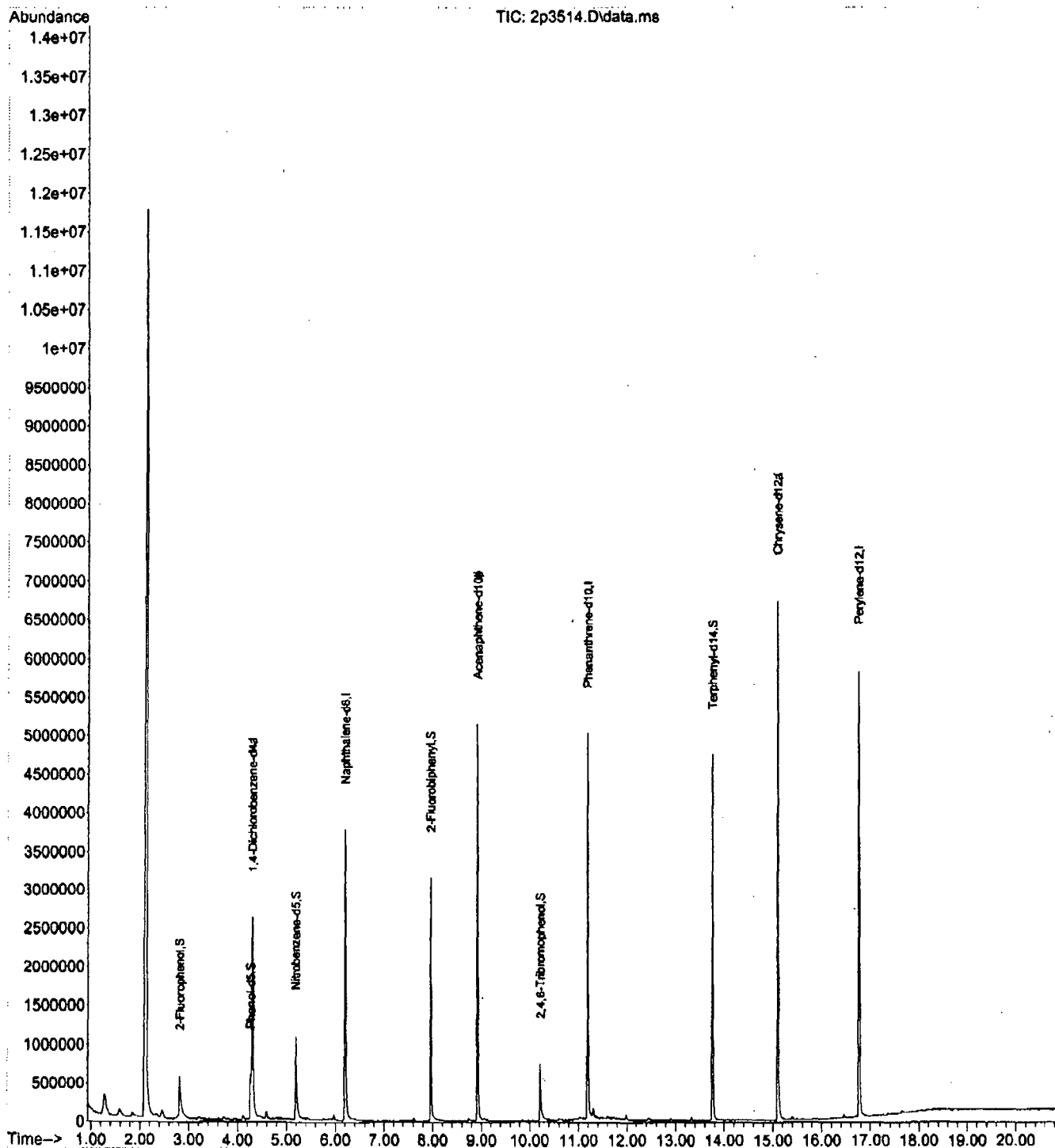
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.301	152	684475	40.00	ppb	0.00
24) Naphthalene-d8	6.205	136	2454062	40.00	ppb	0.00
47) Acenaphthene-d10	8.922	164	1590793	40.00	ppb	-0.01
69) Phenanthrene-d10	11.196	188	2788351	40.00	ppb	-0.01
83) Chrysene-d12	15.105	240	3347795	40.00	ppb	-0.01
92) Perylene-d12	16.774	264	2917846	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.301	152	684475	40.00	ppb	0.00
104) Acenaphthene-d10a	8.922	164	1590793	40.00	ppb	-0.01
106) Chrysene-d12a	15.105	240	3347795	40.00	ppb	-0.01
108) Acenaphthene-d10b	8.922	164	1590793	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.820	112	448118	25.29	ppb	0.02
Spiked Amount 50.000			Recovery	=	50.58%	
8) Phenol-d5	4.264	99	577641	22.31	ppb	0.01
Spiked Amount 50.000			Recovery	=	44.62%	
25) Nitrobenzene-d5	5.194	82	724816	29.71	ppb	0.00
Spiked Amount 50.000			Recovery	=	59.42%	
51) 2-Fluorobiphenyl	7.965	172	1450074	26.02	ppb	-0.01
Spiked Amount 50.000			Recovery	=	52.04%	
73) 2,4,6-Tribromophenol	10.222	330	168263	23.60	ppb	0.00
Spiked Amount 50.000			Recovery	=	47.20%	
85) Terphenyl-d14	13.768	244	1867369	31.58	ppb	0.00
Spiked Amount 50.000			Recovery	=	63.16%	
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
Data File : 2p3514.D
Acq On : 5 Jan 2011 6:11 pm
Operator : kristis
Sample : ja58750-5
Misc : op46301,e2p193,35.1,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 07 15:28:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:02:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3515.D
 Acq On : 5 Jan 2011 6:37 pm
 Operator : kristis
 Sample : ja58750-6
 Misc : op46301,e2p193,35.1,,,1,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 07 15:29:41 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

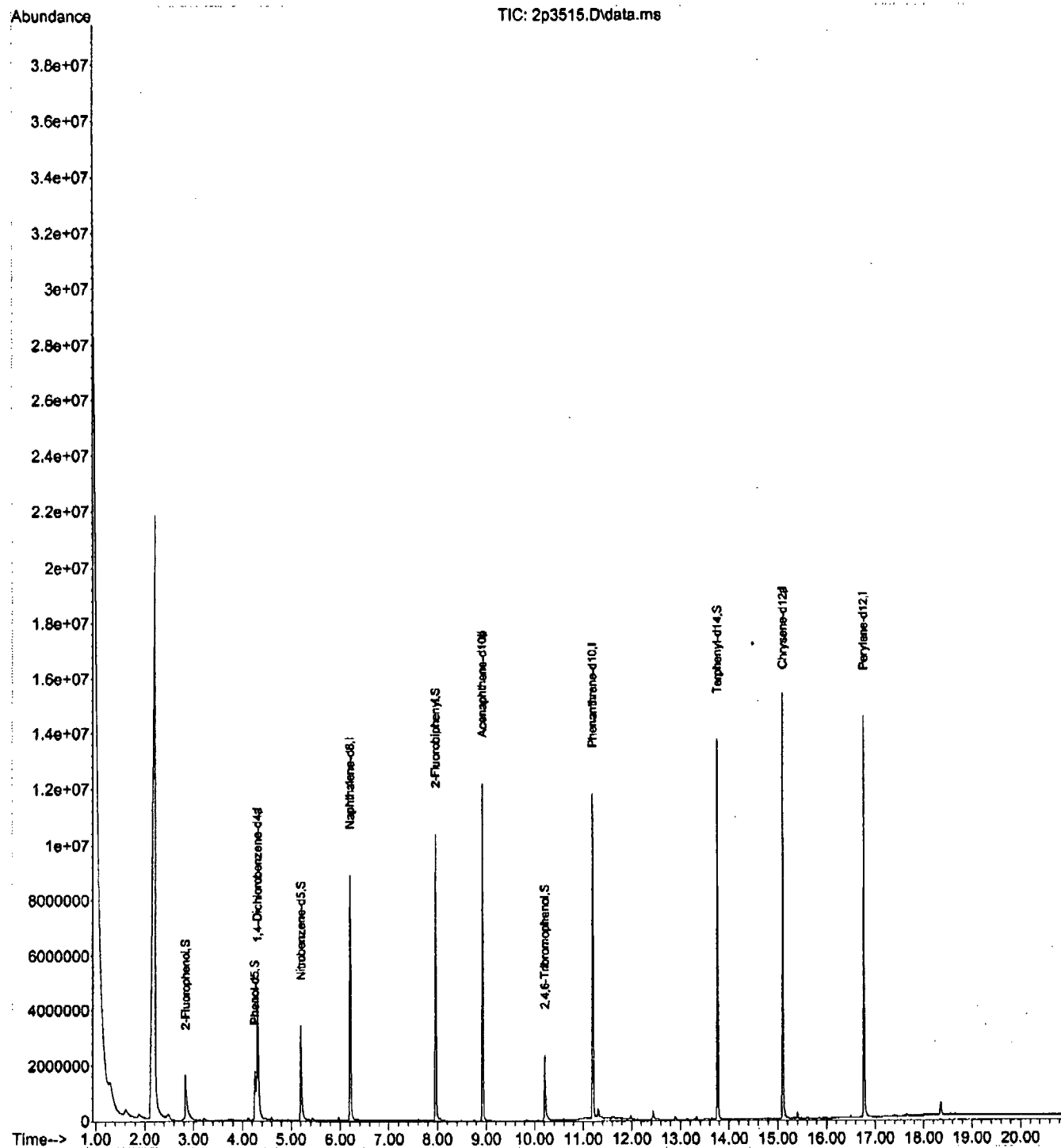
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.306	152	1490561	40.00	ppb	0.00
24) Naphthalene-d8	6.205	136	5688654	40.00	ppb	0.00
47) Acenaphthene-d10	8.928	164	3701096	40.00	ppb	0.00
69) Phenanthrene-d10	11.201	188	6340190	40.00	ppb	0.00
83) Chrysene-d12	15.116	240	8067188	40.00	ppb	0.00
92) Perylene-d12	16.779	264	7118514	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.306	152	1490561	40.00	ppb	0.00
104) Acenaphthene-d10a	8.928	164	3701096	40.00	ppb	0.00
106) Chrysene-d12a	15.116	240	8067188	40.00	ppb	0.00
108) Acenaphthene-d10b	8.928	164	3701096	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.835	112	1294109	33.54	ppb	0.03
Spiked Amount 50.000			Recovery	=	67.08%	
8) Phenol-d5	4.253	99	1716411	30.45	ppb	0.00
Spiked Amount 50.000			Recovery	=	60.90%	
25) Nitrobenzene-d5	5.200	82	2054924	36.33	ppb	0.00
Spiked Amount 50.000			Recovery	=	72.66%	
51) 2-Fluorobiphenyl	7.965	172	4389896	33.85	ppb	-0.01
Spiked Amount 50.000			Recovery	=	67.70%	
73) 2,4,6-Tribromophenol	10.217	330	461800	28.49	ppb	0.00
Spiked Amount 50.000			Recovery	=	56.98%	
85) Terphenyl-d14	13.773	244	5305364	37.23	ppb	0.00
Spiked Amount 50.000			Recovery	=	74.46%	
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3515.D
 Acq On : 5 Jan 2011 6:37 pm
 Operator : kristis
 Sample : ja58750-6
 Misc : op46301,e2p193,35.1,,,1,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 07 15:29:41 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3516.D
 Acq On : 5 Jan 2011 7:03 pm
 Operator : kristis
 Sample : ja58750-7
 Misc : op46301,e2p193,35.1,,,1,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 07 15:30:33 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

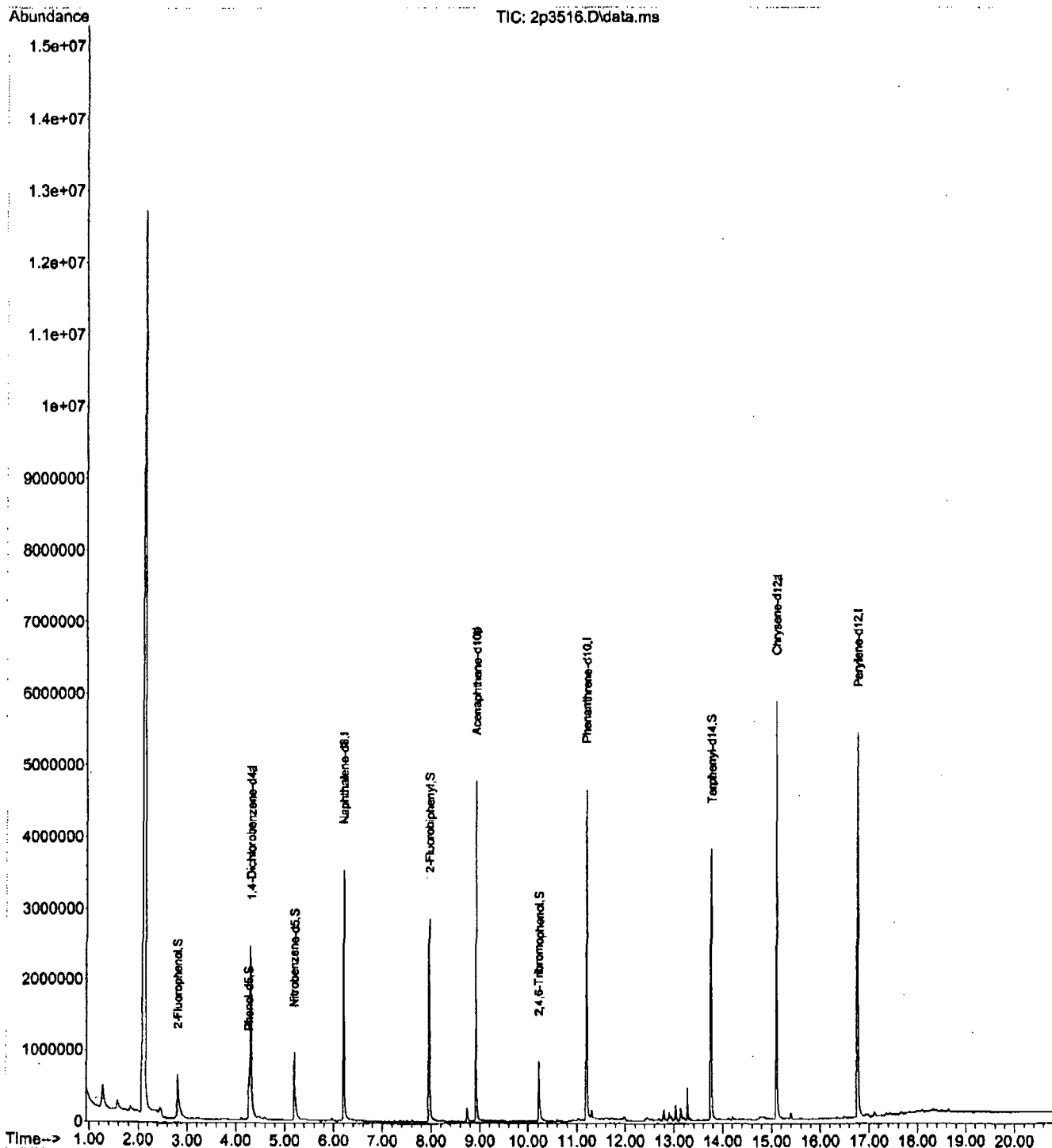
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.301	152	601130	40.00	ppb	0.00
24) Naphthalene-d8	6.200	136	2302207	40.00	ppb	-0.01
47) Acenaphthene-d10	8.922	164	1482325	40.00	ppb	-0.01
69) Phenanthrene-d10	11.195	188	2602129	40.00	ppb	-0.01
83) Chrysene-d12	15.105	240	2972019	40.00	ppb	-0.01
92) Perylene-d12	16.774	264	2690288	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.301	152	601130	40.00	ppb	0.00
104) Acenaphthene-d10a	8.922	164	1482325	40.00	ppb	-0.01
106) Chrysene-d12a	15.105	240	2972019	40.00	ppb	-0.01
108) Acenaphthene-d10b	8.922	164	1482325	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.809	112	466505	29.98	ppb	0.00
Spiked Amount 50.000			Recovery =	59.96%		
8) Phenol-d5	4.258	99	598028	26.31	ppb	0.00
Spiked Amount 50.000			Recovery =	52.62%		
25) Nitrobenzene-d5	5.194	82	663717	29.00	ppb	0.00
Spiked Amount 50.000			Recovery =	58.00%		
51) 2-Fluorobiphenyl	7.965	172	1340576	25.81	ppb	-0.01
Spiked Amount 50.000			Recovery =	51.62%		
73) 2,4,6-Tribromophenol	10.222	330	191229	28.74	ppb	0.00
Spiked Amount 50.000			Recovery =	57.48%		
85) Terphenyl-d14	13.768	244	1563721	29.79	ppb	0.00
Spiked Amount 50.000			Recovery =	59.58%		

Target Compounds Qvalue

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

Data Path : C:\msdchem\1\DATA\2p193\
Data File : 2p3516.D
Acq On : 5 Jan 2011 7:03 pm
Operator : kristis
Sample : ja58750-7
Misc : op46301,e2p193,35.1,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 07 15:30:33 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:02:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3517.D
 Acq On : 5 Jan 2011 7:29 pm
 Operator : kristis
 Sample : ja58750-8
 Misc : op46301,e2p193,35.1,,,1,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 07 15:31:14 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.301	152	616315	40.00	ppb	0.00
24) Naphthalene-d8	6.200	136	2299188	40.00	ppb	-0.01
47) Acenaphthene-d10	8.922	164	1500803	40.00	ppb	-0.01
69) Phenanthrene-d10	11.196	188	2699325	40.00	ppb	-0.01
83) Chrysene-d12	15.105	240	3146525	40.00	ppb	-0.01
92) Perylene-d12	16.774	264	2751435	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.301	152	616315	40.00	ppb	0.00
104) Acenaphthene-d10a	8.922	164	1500803	40.00	ppb	-0.01
106) Chrysene-d12a	15.105	240	3146525	40.00	ppb	-0.01
108) Acenaphthene-d10b	8.922	164	1500803	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.814	112	405157	25.39	ppb	0.01
Spiked Amount	50.000		Recovery	=	50.78%	
8) Phenol-d5	4.264	99	515925	22.13	ppb	0.01
Spiked Amount	50.000		Recovery	=	44.26%	
25) Nitrobenzene-d5	5.200	82	636447	27.84	ppb	0.00
Spiked Amount	50.000		Recovery	=	55.68%	
51) 2-Fluorobiphenyl	7.965	172	1315258	25.01	ppb	-0.01
Spiked Amount	50.000		Recovery	=	50.02%	
73) 2,4,6-Tribromophenol	10.222	330	197826	28.66	ppb	0.00
Spiked Amount	50.000		Recovery	=	57.32%	
85) Terphenyl-d14	13.768	244	1724879	31.03	ppb	0.00
Spiked Amount	50.000		Recovery	=	62.06%	

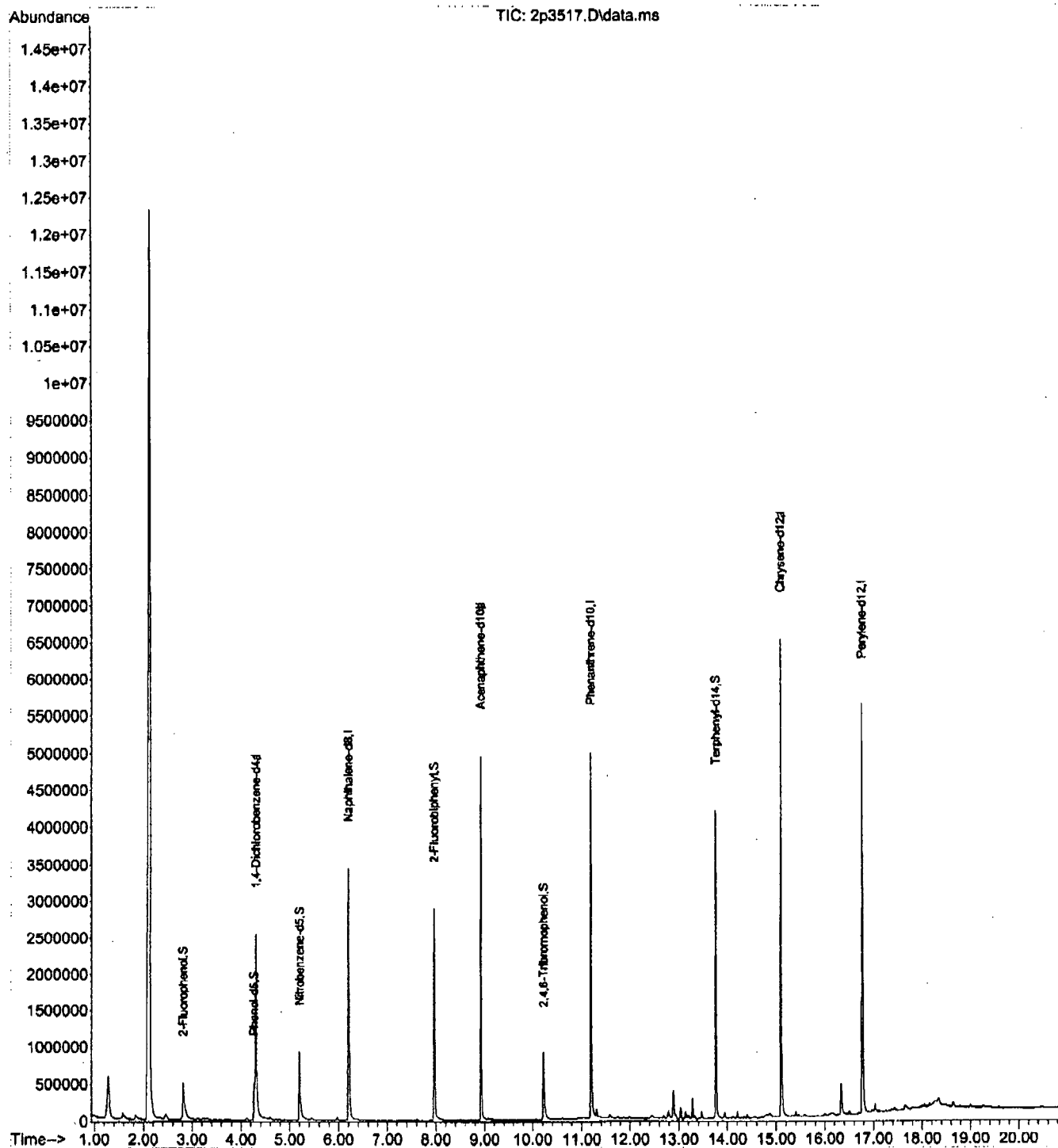
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3517.D
 Acq On : 5 Jan 2011 7:29 pm
 Operator : kristis
 Sample : ja58750-8
 Misc : op46301,e2p193,35.1,,,1,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 07 15:31:14 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3518.D
 Acq On : 5 Jan 2011 7:55 pm
 Operator : kristis
 Sample : ja58750-9
 Misc : op46301,e2p193,35.2,,,1,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 07 15:31:59 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

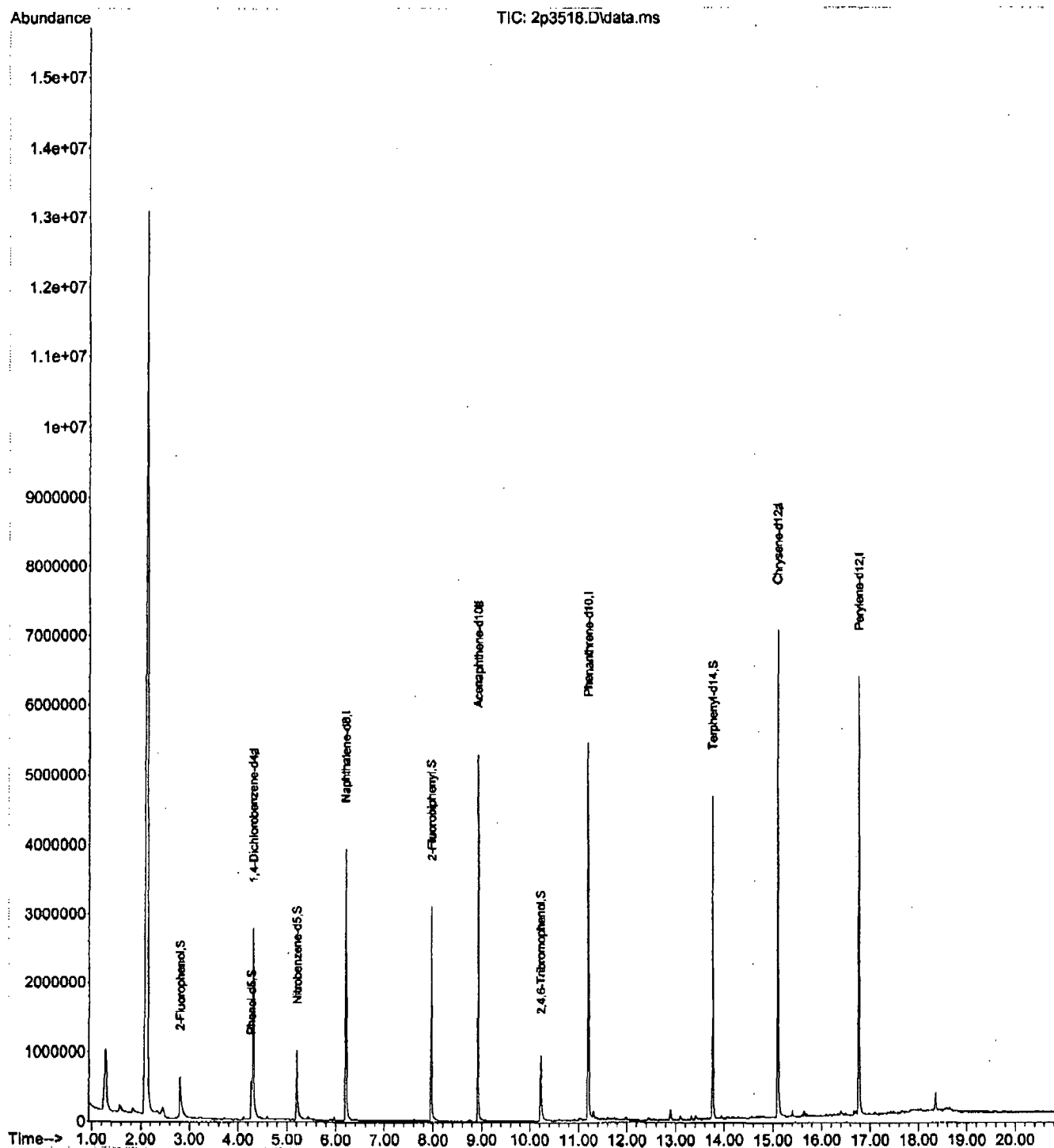
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.301	152	680705	40.00	ppb	0.00
24) Naphthalene-d8	6.200	136	2515198	40.00	ppb	-0.01
47) Acenaphthene-d10	8.922	164	1665328	40.00	ppb	-0.01
69) Phenanthrene-d10	11.196	188	2931063	40.00	ppb	-0.01
83) Chrysene-d12	15.105	240	3365850	40.00	ppb	-0.01
92) Perylene-d12	16.774	264	2974057	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.301	152	680705	40.00	ppb	0.00
104) Acenaphthene-d10a	8.922	164	1665328	40.00	ppb	-0.01
106) Chrysene-d12a	15.105	240	3365850	40.00	ppb	-0.01
108) Acenaphthene-d10b	8.922	164	1665328	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.809	112	455545	25.85	ppb	0.00
Spiked Amount 50.000			Recovery =	51.70%		
8) Phenol-d5	4.264	99	569450	22.12	ppb	0.01
Spiked Amount 50.000			Recovery =	44.24%		
25) Nitrobenzene-d5	5.200	82	675370	27.01	ppb	0.00
Spiked Amount 50.000			Recovery =	54.02%		
51) 2-Fluorobiphenyl	7.965	172	1412924	24.21	ppb	-0.01
Spiked Amount 50.000			Recovery =	48.42%		
73) 2,4,6-Tribromophenol	10.222	330	203999	27.22	ppb	0.00
Spiked Amount 50.000			Recovery =	54.44%		
85) Terphenyl-d14	13.763	244	1843411	31.01	ppb	0.00
Spiked Amount 50.000			Recovery =	62.02%		
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3518.D
 Acq On : 5 Jan 2011 7:55 pm
 Operator : kristis
 Sample : ja58750-9
 Misc : op46301,e2p193,35.2,,,1,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 07 15:31:59 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3519.D
 Acq On : 5 Jan 2011 8:21 pm
 Operator : kristis
 Sample : ja58750-10
 Misc : op46301,e2p193,35.1,,,1,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 07 15:32:41 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

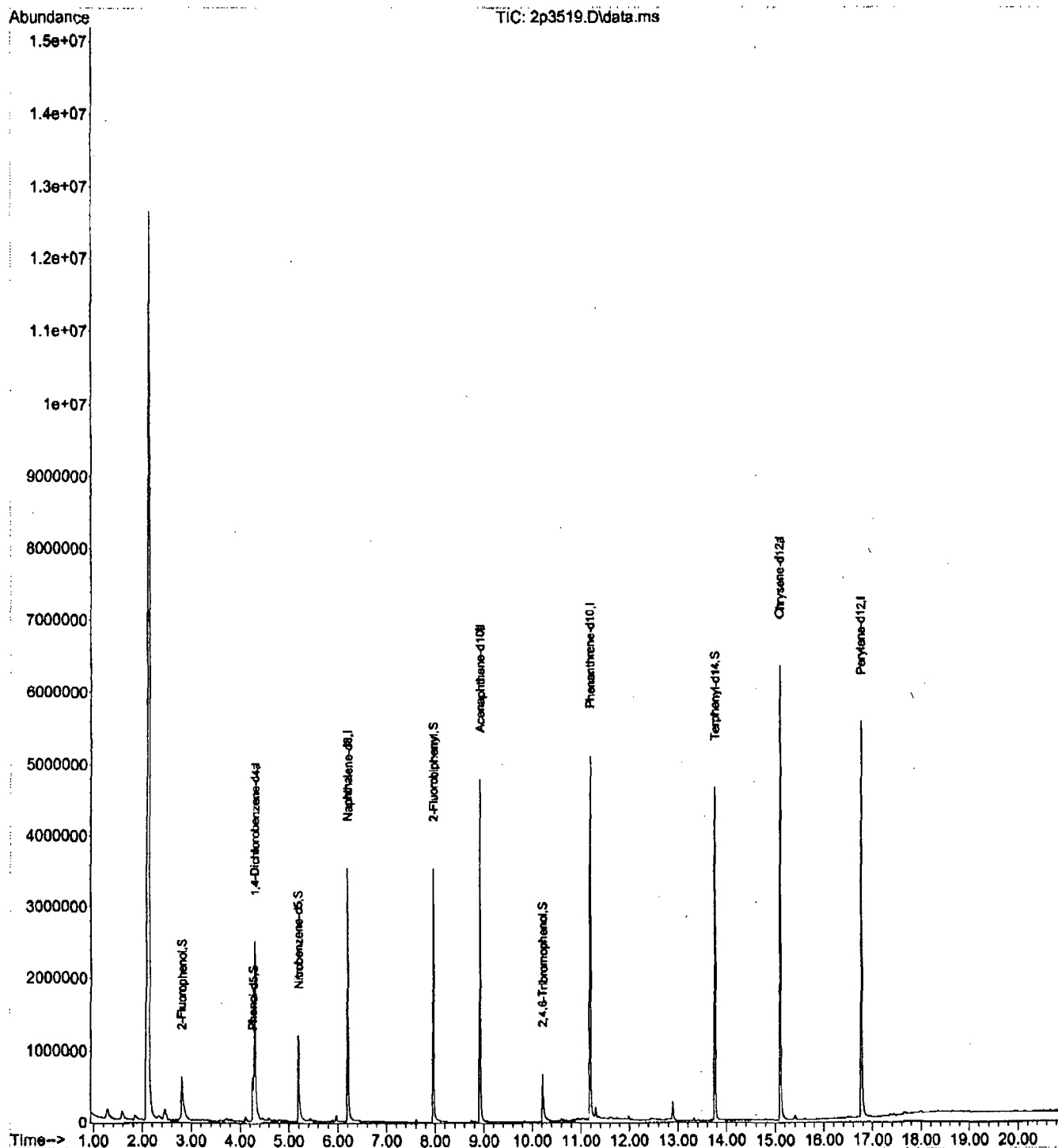
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.301	152	608751	40.00	ppb	0.00
24) Naphthalene-d8	6.200	136	2372683	40.00	ppb	-0.01
47) Acenaphthene-d10	8.922	164	1537222	40.00	ppb	-0.01
69) Phenanthrene-d10	11.195	188	2762819	40.00	ppb	-0.01
83) Chrysene-d12	15.105	240	3285263	40.00	ppb	-0.01
92) Perylene-d12	16.774	264	2927941	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.301	152	608751	40.00	ppb	0.00
104) Acenaphthene-d10a	8.922	164	1537222	40.00	ppb	-0.01
106) Chrysene-d12a	15.105	240	3285263	40.00	ppb	-0.01
108) Acenaphthene-d10b	8.922	164	1537222	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.809	112	451292	28.64	ppb	0.00
Spiked Amount 50.000			Recovery	=	57.28%	
8) Phenol-d5	4.258	99	606995	26.37	ppb	0.00
Spiked Amount 50.000			Recovery	=	52.74%	
25) Nitrobenzene-d5	5.194	82	765745	32.46	ppb	0.00
Spiked Amount 50.000			Recovery	=	64.92%	
51) 2-Fluorobiphenyl	7.965	172	1576619	29.27	ppb	-0.01
Spiked Amount 50.000			Recovery	=	58.54%	
73) 2,4,6-Tribromophenol	10.222	330	155764	22.05	ppb	0.00
Spiked Amount 50.000			Recovery	=	44.10%	
85) Terphenyl-d14	13.768	244	1927095	33.21	ppb	0.00
Spiked Amount 50.000			Recovery	=	66.42%	
Target Compounds						Qvalue

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

Data Path : C:\msdchem\1\DATA\2p193\
Data File : 2p3519.D
Acq On : 5 Jan 2011 8:21 pm
Operator : kristis
Sample : ja58750-10
Misc : op46301,e2p193,35.1,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 07 15:32:41 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:02:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3520.D
 Acq On : 5 Jan 2011 8:47 pm
 Operator : kristis
 Sample : ja58750-11
 Misc : op46301,e2p193,35.3,,,1,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 07 15:33:19 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

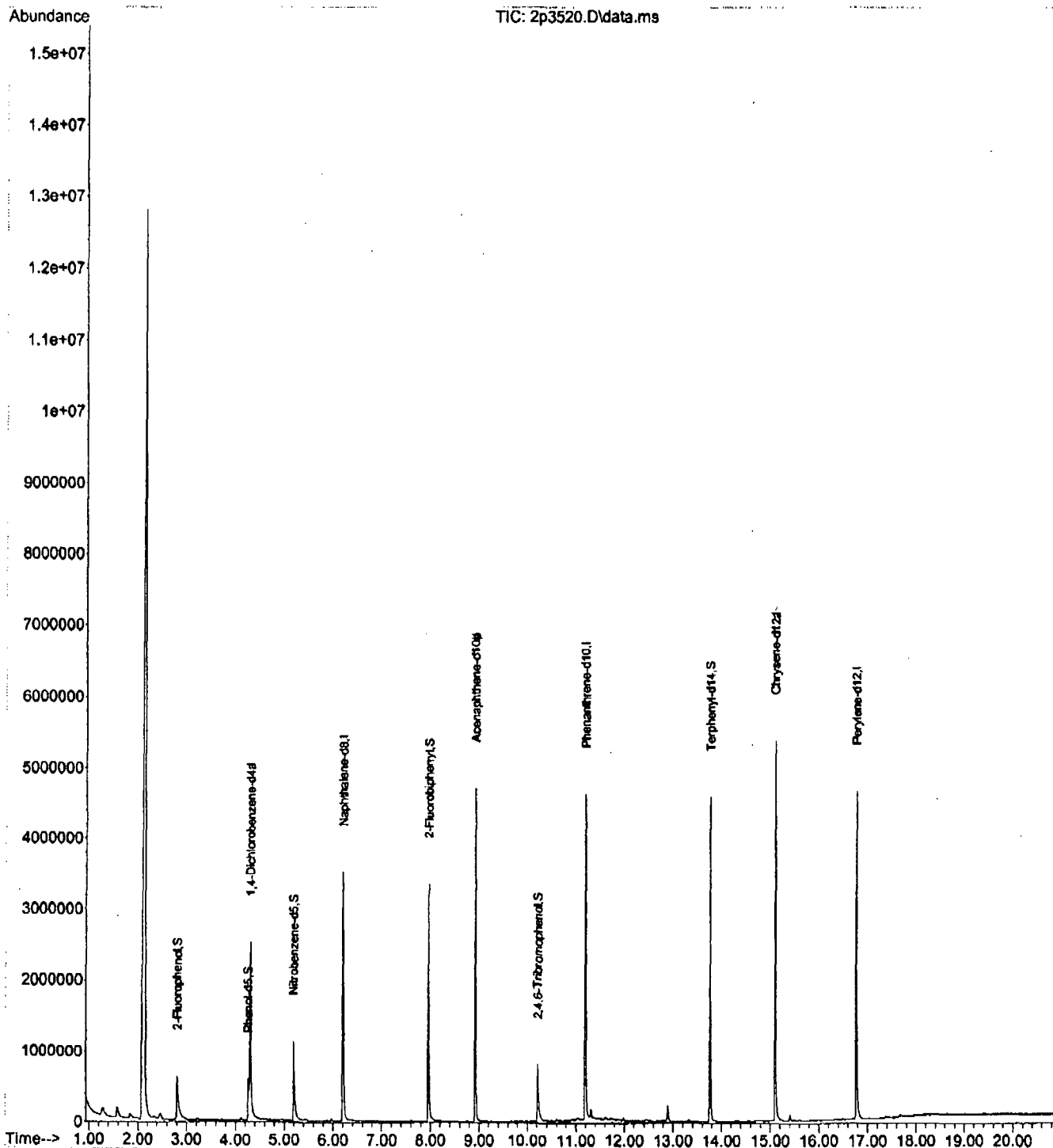
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.301	152	624347	40.00	ppb	0.00
24) Naphthalene-d8	6.200	136	2307093	40.00	ppb	-0.01
47) Acenaphthene-d10	8.922	164	1485697	40.00	ppb	-0.01
69) Phenanthrene-d10	11.195	188	2555007	40.00	ppb	-0.01
83) Chrysene-d12	15.105	240	2909296	40.00	ppb	-0.01
92) Perylene-d12	16.774	264	2498159	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.301	152	624347	40.00	ppb	0.00
104) Acenaphthene-d10a	8.922	164	1485697	40.00	ppb	-0.01
106) Chrysene-d12a	15.105	240	2909296	40.00	ppb	-0.01
108) Acenaphthene-d10b	8.922	164	1485697	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.809	112	474649	29.37	ppb	0.00
Spiked Amount 50.000			Recovery =	58.74%		
8) Phenol-d5	4.258	99	610830	25.87	ppb	0.00
Spiked Amount 50.000			Recovery =	51.74%		
25) Nitrobenzene-d5	5.194	82	750956	32.74	ppb	0.00
Spiked Amount 50.000			Recovery =	65.48%		
51) 2-Fluorobiphenyl	7.965	172	1530197	29.39	ppb	-0.01
Spiked Amount 50.000			Recovery =	58.78%		
73) 2,4,6-Tribromophenol	10.222	330	194745	29.81	ppb	0.00
Spiked Amount 50.000			Recovery =	59.62%		
85) Terphenyl-d14	13.768	244	1795191	34.93	ppb	0.00
Spiked Amount 50.000			Recovery =	69.86%		
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p193\
 Data File : 2p3520.D
 Acq On : 5 Jan 2011 8:47 pm
 Operator : kristis
 Sample : ja58750-11
 Misc : op46301,e2p193,35.3,,,1,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 07 15:33:19 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3526.D
 Acq On : 6 Jan 2011 12:00 pm
 Operator : kristis
 Sample : ja58750-12
 Misc : op47301,e2p194,35.3,,,1,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 07 15:34:25 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

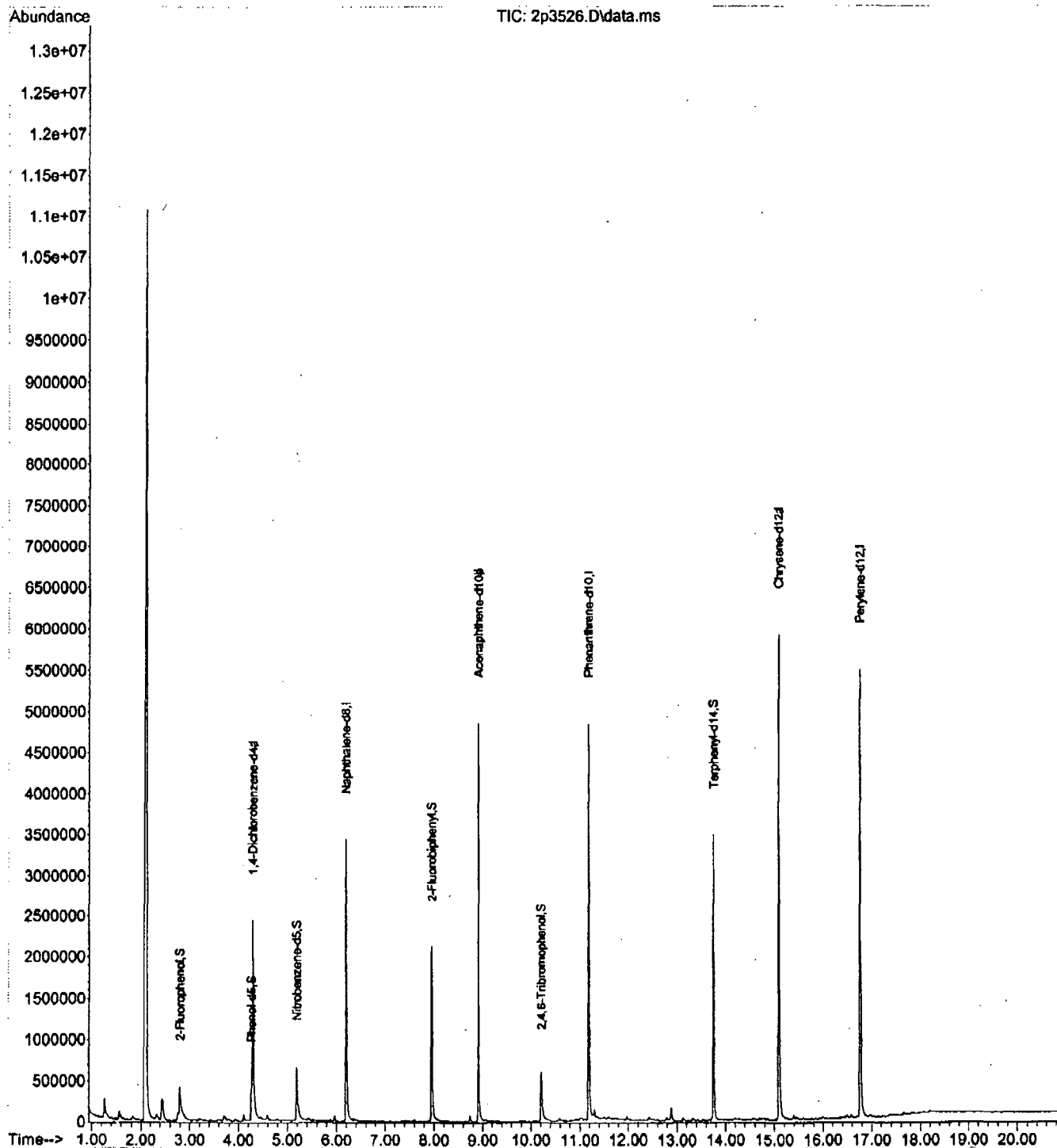
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.291	152	593043	40.00	ppb	-0.01
24) Naphthalene-d8	6.195	136	2231958	40.00	ppb	-0.02
47) Acenaphthene-d10	8.917	164	1484499	40.00	ppb	-0.02
69) Phenanthrene-d10	11.185	188	2609665	40.00	ppb	-0.02
83) Chrysene-d12	15.100	240	3108224	40.00	ppb	-0.02
92) Perylene-d12	16.769	264	2806133	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.291	152	593043	40.00	ppb	-0.01
104) Acenaphthene-d10a	8.917	164	1484499	40.00	ppb	-0.02
106) Chrysene-d12a	15.100	240	3108224	40.00	ppb	-0.02
108) Acenaphthene-d10b	8.917	164	1484499	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	2.798	112	324743	21.15	ppb	0.00
Spiked Amount 50.000			Recovery =	42.30%		
8) Phenol-d5	4.258	99	428668	19.11	ppb	0.00
Spiked Amount 50.000			Recovery =	38.22%		
25) Nitrobenzene-d5	5.194	82	491931	22.17	ppb	0.00
Spiked Amount 50.000			Recovery =	44.34%		
51) 2-Fluorobiphenyl	7.960	172	1013423	19.48	ppb	-0.02
Spiked Amount 50.000			Recovery =	38.96%		
73) 2,4,6-Tribromophenol	10.217	330	142106	21.30	ppb	0.00
Spiked Amount 50.000			Recovery =	42.60%		
85) Terphenyl-d14	13.758	244	1399446	25.49	ppb	-0.01
Spiked Amount 50.000			Recovery =	50.98%		
Target Compounds						
					Qvalue	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3526.D
 Acq On : 6 Jan 2011 12:00 pm
 Operator : kristis
 Sample : ja58750-12
 Misc : op47301,e2p194,35.3,,,1,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 07 15:34:25 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3527.D
 Acq On : 6 Jan 2011 12:26 pm
 Operator : kristis
 Sample : ja58750-13
 Misc : op47301,e2p194,35.1,,,1,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 07 15:35:05 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

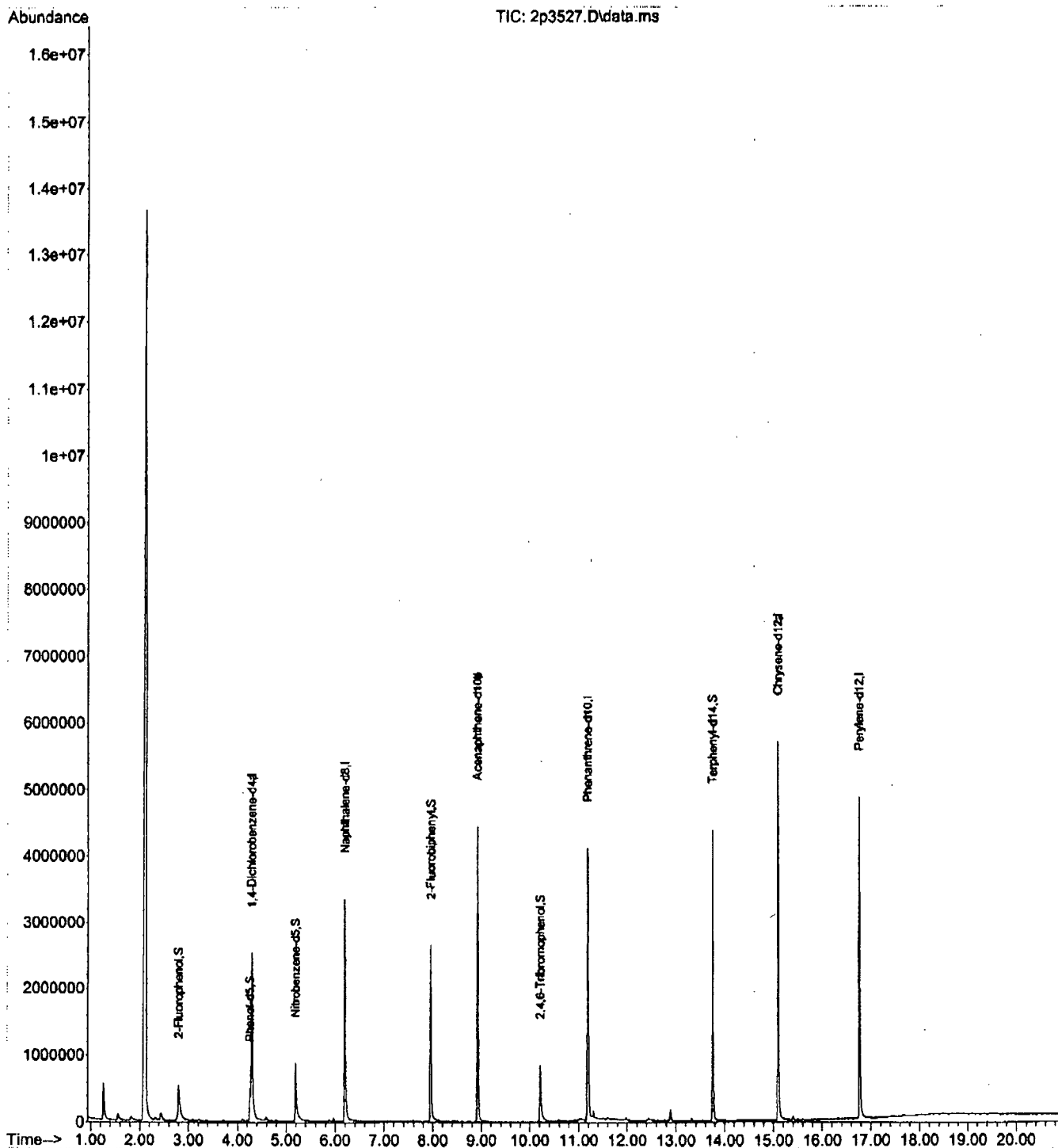
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.290	152	603208	40.00	ppb	-0.01
24) Naphthalene-d8	6.195	136	2193980	40.00	ppb	-0.02
47) Acenaphthene-d10	8.917	164	1437089	40.00	ppb	-0.02
69) Phenanthrene-d10	11.185	188	2482960	40.00	ppb	-0.02
83) Chrysene-d12	15.100	240	2928236	40.00	ppb	-0.02
92) Perylene-d12	16.769	264	2629213	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.290	152	603208	40.00	ppb	-0.01
104) Acenaphthene-d10a	8.917	164	1437089	40.00	ppb	-0.02
106) Chrysene-d12a	15.100	240	2928236	40.00	ppb	-0.02
108) Acenaphthene-d10b	8.917	164	1437089	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	2.793	112	405933	26.00	ppb	-0.01
Spiked Amount 50.000			Recovery =	52.00%		
8) Phenol-d5	4.253	99	518932	22.75	ppb	0.00
Spiked Amount 50.000			Recovery =	45.50%		
25) Nitrobenzene-d5	5.189	82	649164	29.76	ppb	-0.01
Spiked Amount 50.000			Recovery =	59.52%		
51) 2-Fluorobiphenyl	7.960	172	1290978	25.64	ppb	-0.02
Spiked Amount 50.000			Recovery =	51.28%		
73) 2,4,6-Tribromophenol	10.211	330	191594	30.18	ppb	-0.01
Spiked Amount 50.000			Recovery =	60.36%		
85) Terphenyl-d14	13.758	244	1736006	33.56	ppb	-0.01
Spiked Amount 50.000			Recovery =	67.12%		
Target Compounds					Qvalue	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3527.D
 Acq On : 6 Jan 2011 12:26 pm
 Operator : kristis
 Sample : ja58750-13
 Misc : op47301,e2p194,35.1,,,1,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 07 15:35:05 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3528.D
 Acq On : 6 Jan 2011 12:52 pm
 Operator : kristis
 Sample : ja58750-14
 Misc : op47301,e2p194,35.3,,,1,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 07 15:35:42 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.290	152	636923	40.00	ppb	-0.01
24) Naphthalene-d8	6.195	136	2287023	40.00	ppb	-0.02
47) Acenaphthene-d10	8.917	164	1504827	40.00	ppb	-0.02
69) Phenanthrene-d10	11.185	188	2569332	40.00	ppb	-0.02
83) Chrysene-d12	15.100	240	2951605	40.00	ppb	-0.02
92) Perylene-d12	16.769	264	2576768	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.290	152	636923	40.00	ppb	-0.01
104) Acenaphthene-d10a	8.917	164	1504827	40.00	ppb	-0.02
106) Chrysene-d12a	15.100	240	2951605	40.00	ppb	-0.02
108) Acenaphthene-d10b	8.917	164	1504827	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	2.793	112	422214	25.61	ppb	-0.01
Spiked Amount 50.000			Recovery	=	51.22%	
8) Phenol-d5	4.253	99	515326	21.39	ppb	0.00
Spiked Amount 50.000			Recovery	=	42.78%	
25) Nitrobenzene-d5	5.189	82	633481	27.86	ppb	-0.01
Spiked Amount 50.000			Recovery	=	55.72%	
51) 2-Fluorobiphenyl	7.960	172	1246993	23.65	ppb	-0.02
Spiked Amount 50.000			Recovery	=	47.30%	
73) 2,4,6-Tribromophenol	10.217	330	159307	24.25	ppb	0.00
Spiked Amount 50.000			Recovery	=	48.50%	
85) Terphenyl-d14	13.758	244	1374257	26.36	ppb	-0.01
Spiked Amount 50.000			Recovery	=	52.72%	

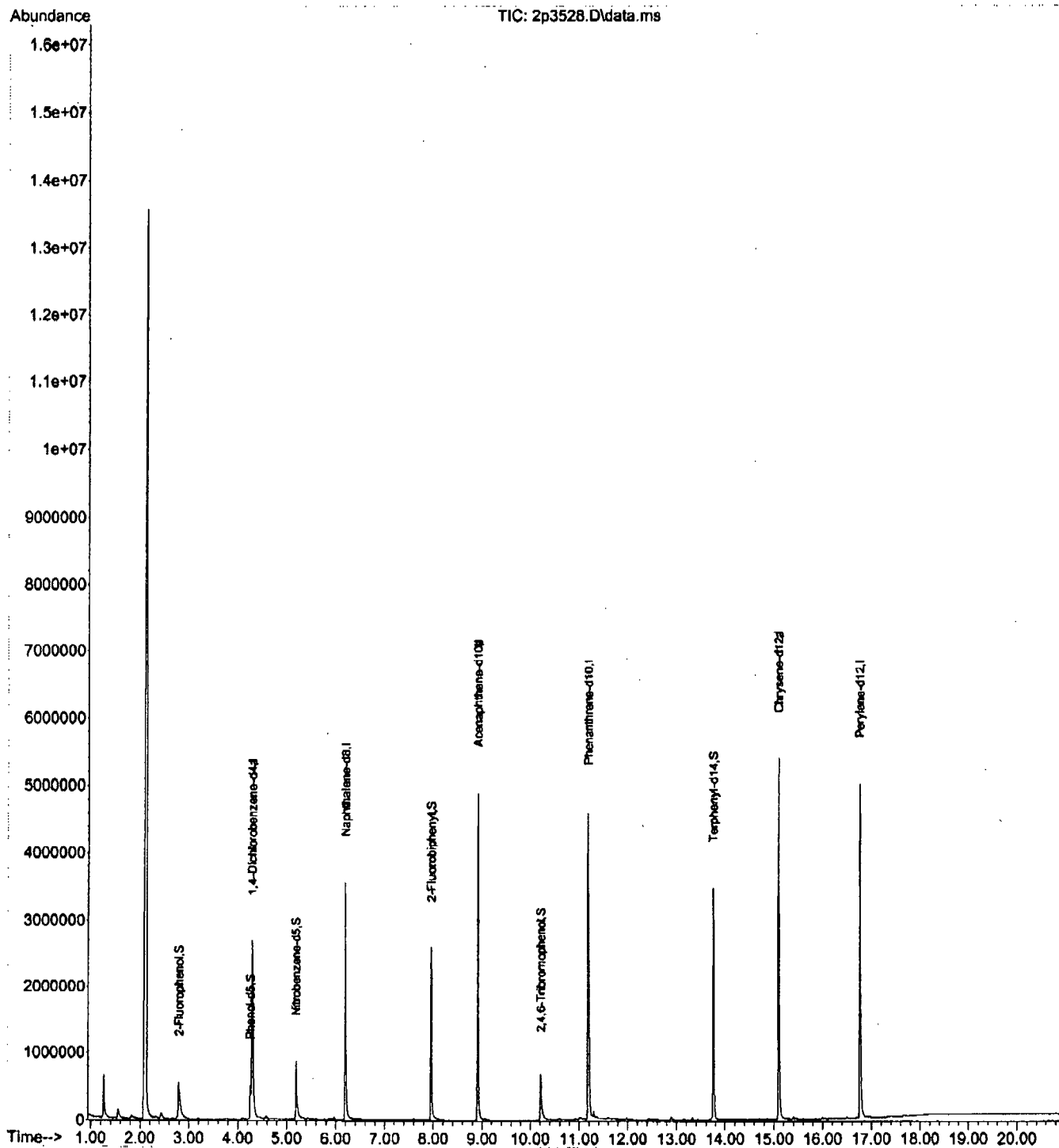
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3528.D
 Acq On : 6 Jan 2011 12:52 pm
 Operator : kristis
 Sample : ja58750-14
 Misc : op47301,e2p194,35.3,,,1,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 07 15:35:42 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3529.D
 Acq On : 6 Jan 2011 1:18 pm
 Operator : kristis
 Sample : ja58750-15
 Misc : op47301,e2p194,35.2,,,1,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 07 15:36:26 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.290	152	616506	40.00	ppb	-0.01
24) Naphthalene-d8	6.194	136	2277216	40.00	ppb	-0.02
47) Acenaphthene-d10	8.917	164	1479231	40.00	ppb	-0.02
69) Phenanthrene-d10	11.190	188	2580742	40.00	ppb	-0.02
83) Chrysene-d12	15.105	240	3033167	40.00	ppb	-0.01
92) Perylene-d12	16.774	264	2699358	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.290	152	616506	40.00	ppb	-0.01
104) Acenaphthene-d10a	8.917	164	1479231	40.00	ppb	-0.02
106) Chrysene-d12a	15.105	240	3033167	40.00	ppb	-0.01
108) Acenaphthene-d10b	8.917	164	1479231	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	2.787	112	514479	32.24	ppb	-0.02
Spiked Amount 50.000			Recovery =	64.48%		
8) Phenol-d5	4.248	99	646910	27.75	ppb	0.00
Spiked Amount 50.000			Recovery =	55.50%		
25) Nitrobenzene-d5	5.189	82	764325	33.76	ppb	-0.01
Spiked Amount 50.000			Recovery =	67.52%		
51) 2-Fluorobiphenyl	7.960	172	1553360	29.97	ppb	-0.02
Spiked Amount 50.000			Recovery =	59.94%		
73) 2,4,6-Tribromophenol	10.211	330	207060	31.38	ppb	-0.01
Spiked Amount 50.000			Recovery =	62.76%		
85) Terphenyl-d14	13.757	244	1838956	34.32	ppb	-0.01
Spiked Amount 50.000			Recovery =	68.64%		

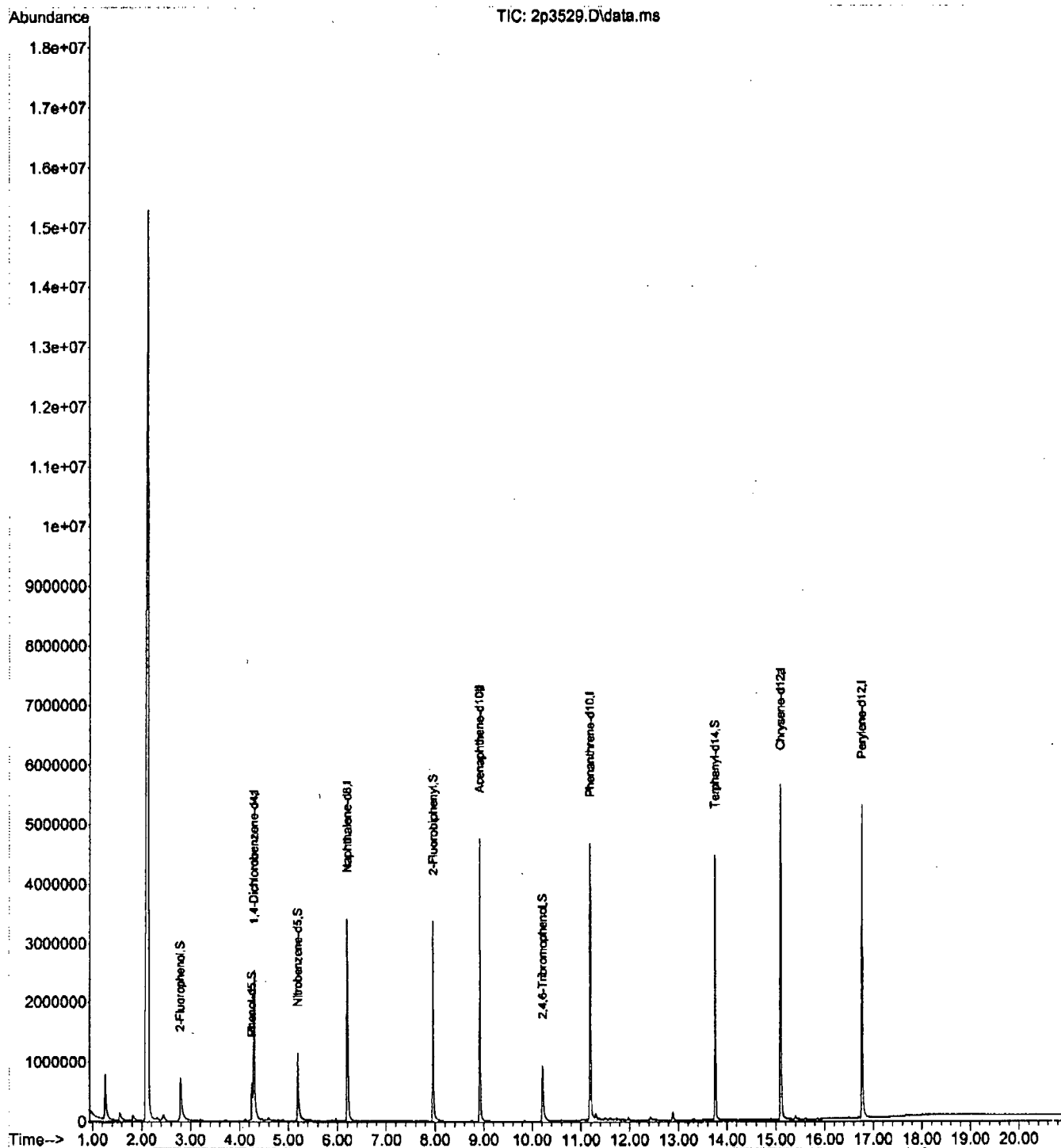
Target Compounds	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3529.D
 Acq On : 6 Jan 2011 1:18 pm
 Operator : kristis
 Sample : ja58750-15
 Misc : op47301,e2p194,35.2,,,1,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 07 15:36:26 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3530.D
 Acq On : 6 Jan 2011 1:44 pm
 Operator : kristis
 Sample : ja58750-16
 Misc : op47301,e2p194,35.1,,,1,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 07 15:37:06 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.290	152	610770	40.00	ppb	-0.01
24) Naphthalene-d8	6.194	136	2300188	40.00	ppb	-0.02
47) Acenaphthene-d10	8.917	164	1490288	40.00	ppb	-0.02
69) Phenanthrene-d10	11.190	188	2662971	40.00	ppb	-0.02
83) Chrysene-d12	15.100	240	3059960	40.00	ppb	-0.02
92) Perylene-d12	16.774	264	2708318	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.290	152	610770	40.00	ppb	-0.01
104) Acenaphthene-d10a	8.917	164	1490288	40.00	ppb	-0.02
106) Chrysene-d12a	15.100	240	3059960	40.00	ppb	-0.02
108) Acenaphthene-d10b	8.917	164	1490288	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	2.793	112	492810	31.17	ppb	-0.01
Spiked Amount	50.000		Recovery	=	62.34%	
8) Phenol-d5	4.248	99	623265	26.98	ppb	0.00
Spiked Amount	50.000		Recovery	=	53.96%	
25) Nitrobenzene-d5	5.189	82	793016	34.67	ppb	-0.01
Spiked Amount	50.000		Recovery	=	69.34%	
51) 2-Fluorobiphenyl	7.960	172	1622321	31.07	ppb	-0.02
Spiked Amount	50.000		Recovery	=	62.14%	
73) 2,4,6-Tribromophenol	10.211	330	222858	32.73	ppb	-0.01
Spiked Amount	50.000		Recovery	=	65.46%	
85) Terphenyl-d14	13.757	244	1915107	35.43	ppb	-0.01
Spiked Amount	50.000		Recovery	=	70.86%	

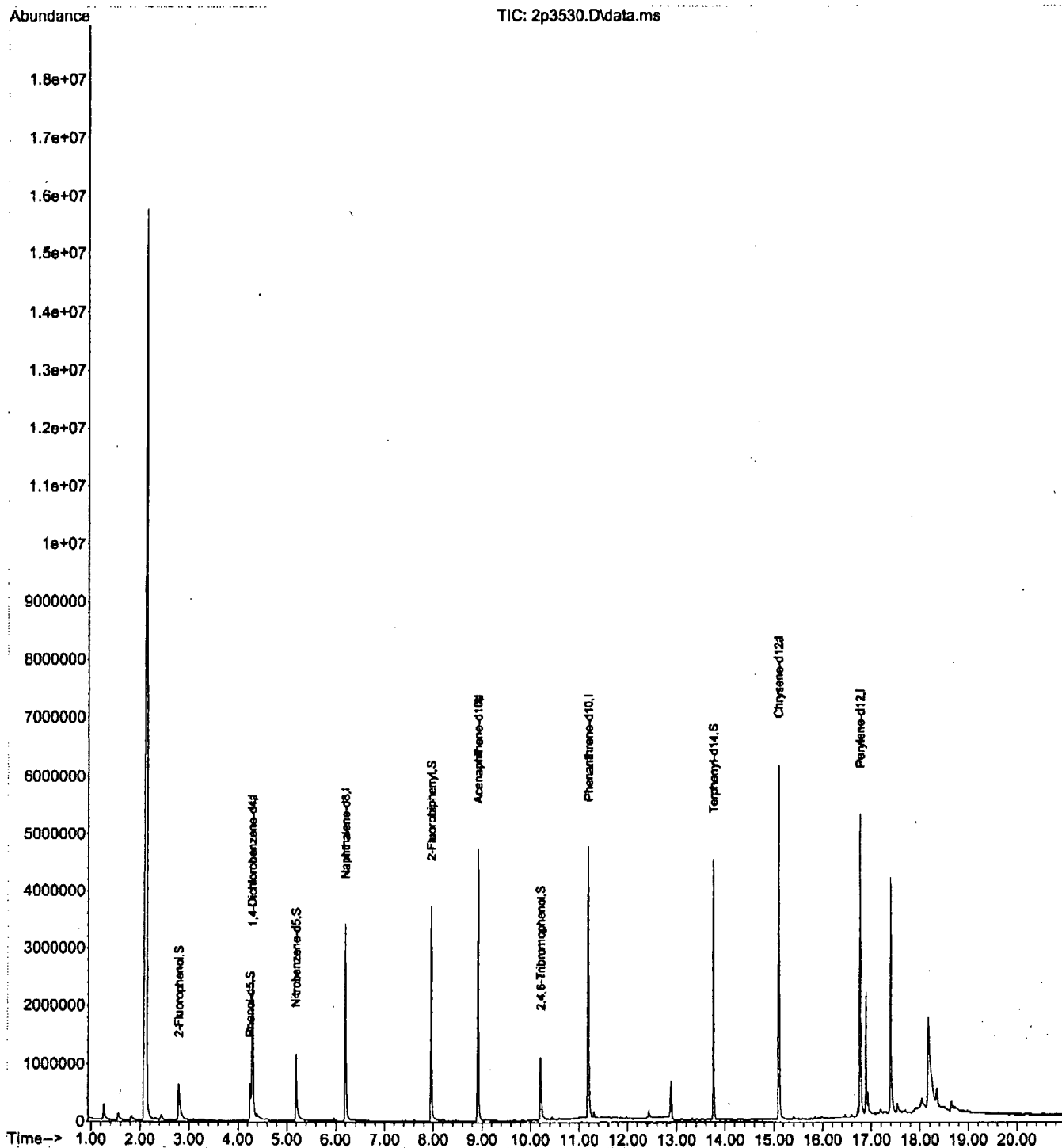
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3530.D
 Acq On : 6 Jan 2011 1:44 pm
 Operator : kristis
 Sample : ja58750-16
 Misc : op47301,e2p194,35.1,,,1,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 07 15:37:06 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3531.D
 Acq On : 6 Jan 2011 2:10 pm
 Operator : kristis
 Sample : ja58750-17
 Misc : op47301,e2p194,35.2,,,1,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 07 15:37:47 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

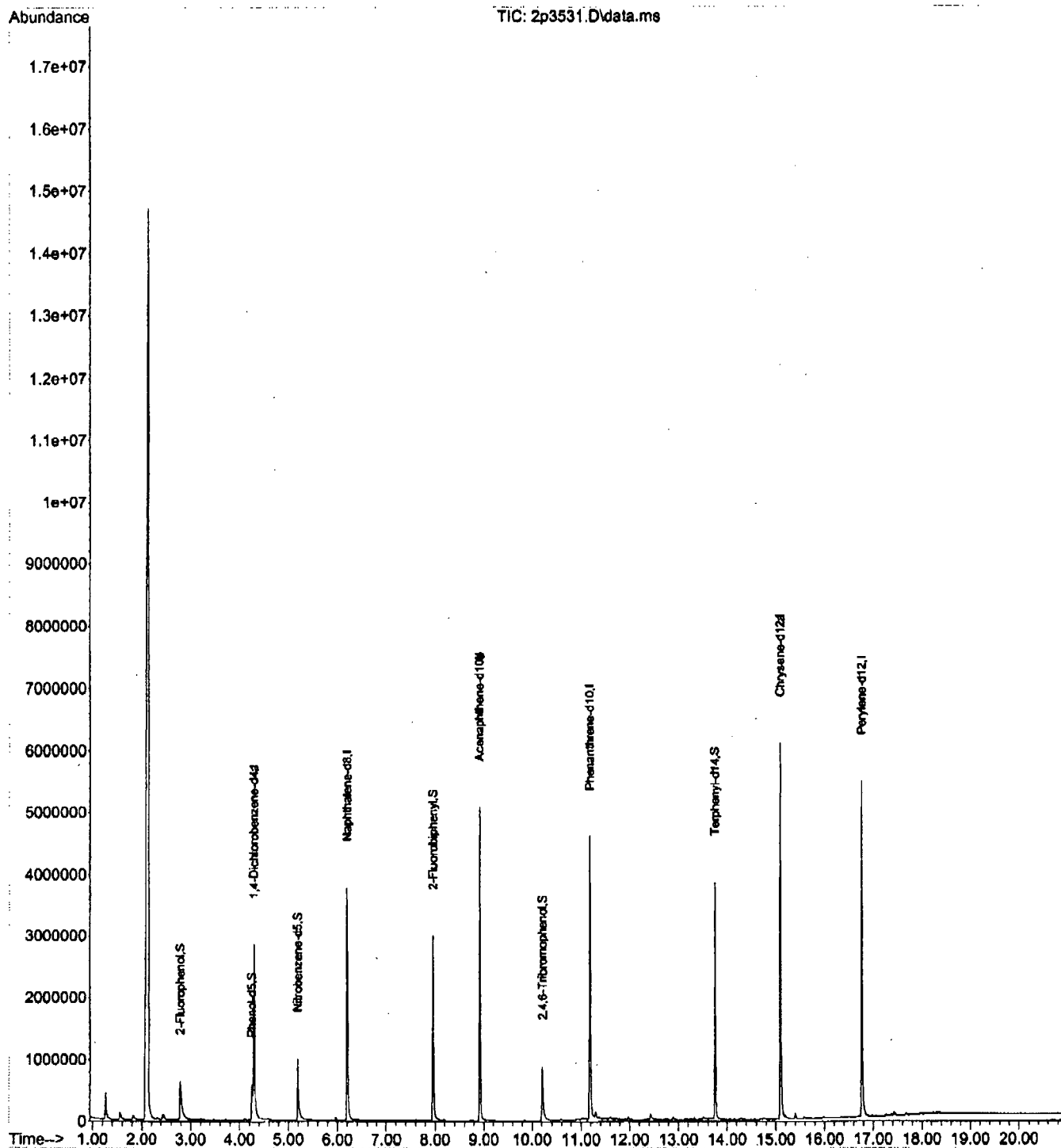
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.290	152	658017	40.00	ppb	-0.01
24) Naphthalene-d8	6.194	136	2451076	40.00	ppb	-0.02
47) Acenaphthene-d10	8.917	164	1595990	40.00	ppb	-0.02
69) Phenanthrene-d10	11.185	188	2741345	40.00	ppb	-0.02
83) Chrysene-d12	15.100	240	3137361	40.00	ppb	-0.02
92) Perylene-d12	16.774	264	2788393	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.290	152	658017	40.00	ppb	-0.01
104) Acenaphthene-d10a	8.917	164	1595990	40.00	ppb	-0.02
106) Chrysene-d12a	15.100	240	3137361	40.00	ppb	-0.02
108) Acenaphthene-d10b	8.917	164	1595990	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	2.787	112	462154	27.13	ppb	-0.02
Spiked Amount 50.000			Recovery =	54.26%		
8) Phenol-d5	4.248	99	601384	24.17	ppb	0.00
Spiked Amount 50.000			Recovery =	48.34%		
25) Nitrobenzene-d5	5.189	82	703145	28.85	ppb	-0.01
Spiked Amount 50.000			Recovery =	57.70%		
51) 2-Fluorobiphenyl	7.959	172	1390116	24.86	ppb	-0.02
Spiked Amount 50.000			Recovery =	49.72%		
73) 2,4,6-Tribromophenol	10.211	330	199614	28.48	ppb	-0.01
Spiked Amount 50.000			Recovery =	56.96%		
85) Terphenyl-d14	13.757	244	1569701	28.32	ppb	-0.01
Spiked Amount 50.000			Recovery =	56.64%		
Target Compounds						
						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
Data File : 2p3531.D
Acq On : 6 Jan 2011 2:10 pm
Operator : kristis
Sample : ja58750-17
Misc : op47301,e2p194,35.2,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 07 15:37:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:02:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3532.D
 Acq On : 6 Jan 2011 2:36 pm
 Operator : kristis
 Sample : ja58750-18
 Misc : op47301,e2p194,35.0,,,1,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 07 15:38:33 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

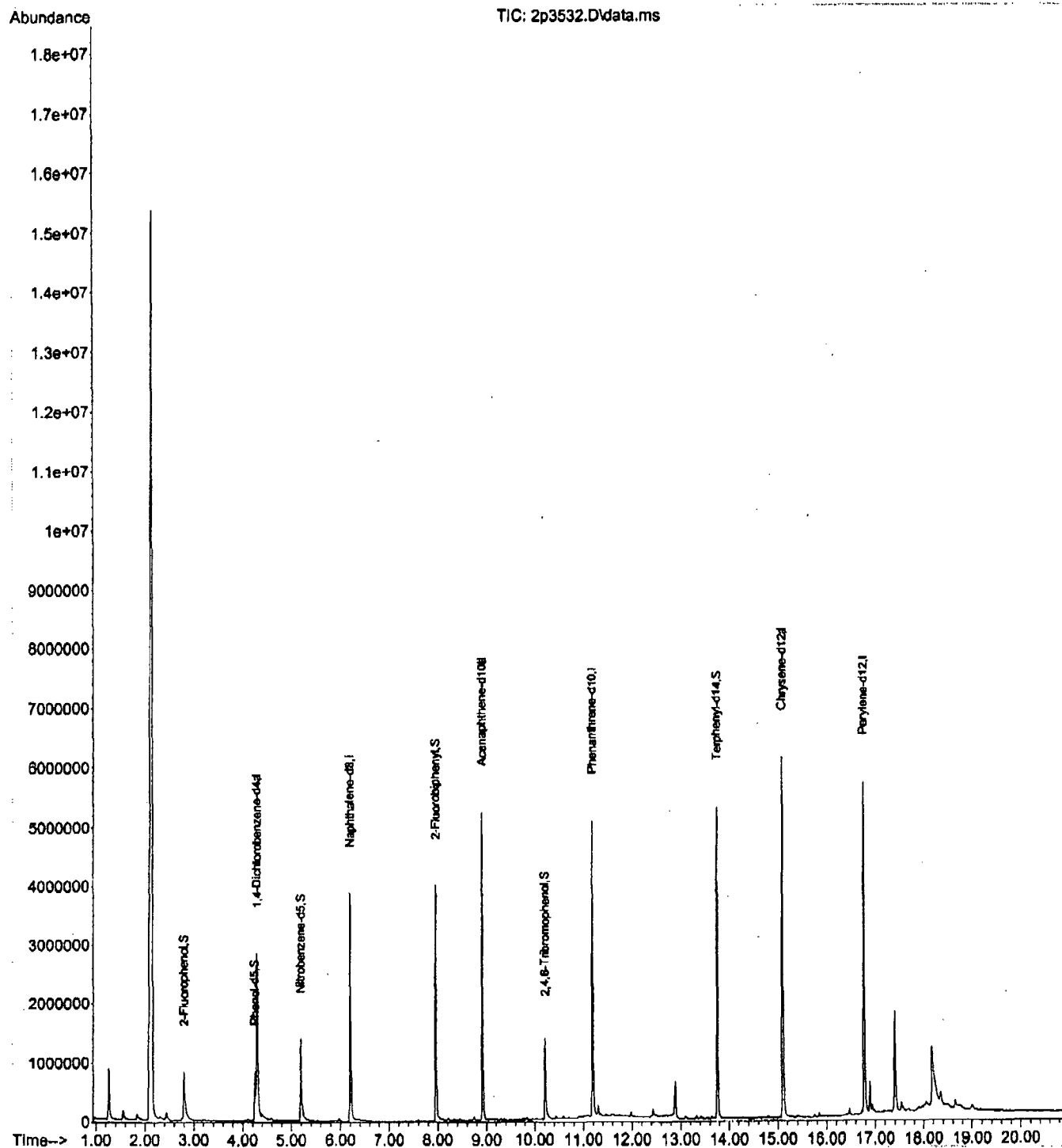
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.290	152	668865	40.00	ppb	-0.01
24) Naphthalene-d8	6.194	136	2475774	40.00	ppb	-0.02
47) Acenaphthene-d10	8.917	164	1594305	40.00	ppb	-0.02
69) Phenanthrene-d10	11.185	188	2742488	40.00	ppb	-0.02
83) Chrysene-d12	15.100	240	3132791	40.00	ppb	-0.02
92) Perylene-d12	16.774	264	2774612	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.290	152	668865	40.00	ppb	-0.01
104) Acenaphthene-d10a	8.917	164	1594305	40.00	ppb	-0.02
106) Chrysene-d12a	15.100	240	3132791	40.00	ppb	-0.02
108) Acenaphthene-d10b	8.917	164	1594305	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	2.793	112	603280	34.84	ppb	-0.01
Spiked Amount 50.000			Recovery	=	69.68%	
8) Phenol-d5	4.242	99	748520	29.59	ppb	-0.01
Spiked Amount 50.000			Recovery	=	59.18%	
25) Nitrobenzene-d5	5.189	82	865329	35.15	ppb	-0.01
Spiked Amount 50.000			Recovery	=	70.30%	
51) 2-Fluorobiphenyl	7.959	172	1798850	32.20	ppb	-0.02
Spiked Amount 50.000			Recovery	=	64.40%	
73) 2,4,6-Tribromophenol	10.211	330	283523	40.43	ppb	-0.01
Spiked Amount 50.000			Recovery	=	80.86%	
85) Terphenyl-d14	13.757	244	2180337	39.40	ppb	-0.01
Spiked Amount 50.000			Recovery	=	78.80%	
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2p194\
 Data File : 2p3532.D
 Acq On : 6 Jan 2011 2:36 pm
 Operator : kristis
 Sample : ja58750-18
 Misc : op47301,e2p194,35.0,,,1,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 07 15:38:33 2011
 Quant Method : C:\MSDCHEM\1\METHODS\M2P171.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Jan 04 11:02:15 2011
 Response via : Initial Calibration





ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E27118

10-21-2010

Analyst Signature: JP

Standard Data

Standard Data

#	Description	Conc.

Lot #	Description	Conc.
541052162	DFTP	50ppm
DC433	Honeywell Pull	-
CF0915	Int. Std.	4000ppm

Columns: 2B5H, 15m. 0.5mm. 0.5um

Method 8070

Initial Cal. Method 107112

Injection Volume: 1.0ul

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

Supervisor Signature: [Signature]

Date: 122270

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
2047	DFTP			W	1					OK	3: 07pm
2048	IC118-100				2					OK	SV10-521-97A
2049	IC118-80				3					OK	-97B
2050	IC118-50				4					OK	-97C
2051	IC118-25				5					OK	-97D
2052	IC118-10				6					OK	-97E
2053	IC118-5				7					OK	-97F
2054	IC118-2				8					OK	-97G
2055	IC118-1				9					OK	-97H
2056	ICV117-50		acid		10					OK	0710-420-142? per lab
2057	ICV117-50		3N#1		11					OK	0710-420-143
2058	ICV117-50		BN#2		12					OK	-140
2059	ICV117-50		3rd source		13					OK	SV10-521-85
2060	ICV117-50		Bentidine		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

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ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EE2119

02270

Analyst Signature: [Signature]

Standard Data

Standard Data

#	Description	Conc.

Lot #	Description	Conc.
31052167	DF-TDP	Supply
31052168	BAIT	Supply
31052169	K442	Supply
31052170	Acid source	Supply
VS47	Acid source	Supply
CF555	Int Std	Supply

Columns: 20-5min 15min 25min 25min

Method: 0227/1625

Initial Cal. Method: 1/21/17

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: 11-25-70

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
2061	DF-TDP			W	1					OK	11:0549
2062	CC117-50			W	2					OK	
2063	CC118-50			W	3					OK	
2064	CC117-50			W	4					OK	
2065	DF-TDP			W	1					OK	4:2423
2066	CC117-25			W	2					OK	
2067	CC118-50			W	3					OK	
2068	CP46300-161	463001	AB2205	S	4		+	✓	IT	Act. using	Learn for sample collection RU samples duplicate
2069	CP46300-251				5			✓	✓	OK	
2070	JA55154-2-54	02270	ABTCL11		6			✓	✓	OK	
2071	JA59392-1		PAH		7			✓	✓	OK	
2072	-3				8			✓	✓	OK	
2073	-4				9			✓	✓	OK	
2074	-2				10			✓	✓	OK	
2075	0746300-113		AB8210		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.

File volume/weight used and final volumes refer to extraction log.

185

Strikeouts 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

Date: 1/16/2006

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SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EJP119

10-32-2010

Analyst Signature: JP

[illegible]

Standard Data		
Lot #	Description	Conc.
DC587	Honeywell Bull	—
EF0915	Int. Std.	known

Columns: 2 B-5H; 15 m. 45 m. 45 m.

Method 8270

Initial Cal. Method **MAP117**

Injection Volume: 1.0 mL

Equally 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.

The volume/weight used and final volumes refer to extraction log.

187

Strikeouts 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
Date: 1/16/2006

279



SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: ED 193Date: 1-5-71Analyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SW-52162	DF-TMP	Supp
SW-52165	3MA	Supp
SW-52157	KLW	Supp
DC923	100% Hexanul	—
CF565	ht Sol	4000ppm

Columns: 235 ft. 5m x .25mm x .25mmMethod: 6270, 625Initial Cal. Method: MPD/17Injection Volume: 1.0 µl

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: 1-6-71

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution	L +	I S	S U	Status (Data)	Comments
	2P3504	X-TMP				1					ok	8:59pm
	3505	CC171-50				2					ok	
	3506	CC114-50				3					ok	
R	3507	JAGS255-106	475241	AP9	S	4	2				Not orig	Report original data
	2P3508	CC193-2		AP9		5					all	SW-521-110 G reference only
	2P3509	CC193-5		"		6					all	SW-521-110 F
R	2P3510	MS3750-1	46341		S	7					all	
R	3511	-2				8					all	
R	3512	-3				9					all	
R	3513	-4				10					all	
R	3514	-5				11					all	
R	3515	-6				12					all	
R	3516	-7				13					all	
R	3517	-8				14					all	
R	3518	-9				15					all	
R	3519	-10				16					all	
R	3520	-11				17					all	

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.

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

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E2P6V

Date: 1-6-11

Analyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.
Sub 521-106	Appendix 9	2ppm
5210 5 21 110 F		5 ppm

Standard Data

Lot #	Description	Conc.
SW-521-31	DFM	SDPM
SW-524-31	2nd	SDPM
SW-524-4	2nd	SDPM
SW-524-1	2nd	SDPM
SW-524-2	2nd	SDPM
SW-524-3	2nd	SDPM
SW-524-4	2nd	SDPM
SW-524-5	2nd	SDPM
SW-524-6	2nd	SDPM
SW-524-7	2nd	SDPM
SW-524-8	2nd	SDPM
SW-524-9	2nd	SDPM
SW-524-10	2nd	SDPM
SW-524-11	2nd	SDPM
SW-524-12	2nd	SDPM
SW-524-13	2nd	SDPM
SW-524-14	2nd	SDPM
SW-524-15	2nd	SDPM
SW-524-16	2nd	SDPM
SW-524-17	2nd	SDPM
SW-524-18	2nd	SDPM
SW-524-19	2nd	SDPM
SW-524-20	2nd	SDPM
SW-524-21	2nd	SDPM
SW-524-22	2nd	SDPM
SW-524-23	2nd	SDPM
SW-524-24	2nd	SDPM
SW-524-25	2nd	SDPM
SW-524-26	2nd	SDPM
SW-524-27	2nd	SDPM
SW-524-28	2nd	SDPM
SW-524-29	2nd	SDPM
SW-524-30	2nd	SDPM
SW-524-31	2nd	SDPM
SW-524-32	2nd	SDPM
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SW-524-38	2nd	SDPM
SW-524-39	2nd	SDPM
SW-524-40	2nd	SDPM
SW-524-41	2nd	SDPM
SW-524-42	2nd	SDPM
SW-524-43	2nd	SDPM
SW-524-44	2nd	SDPM
SW-524-45	2nd	SDPM
SW-524-46	2nd	SDPM
SW-524-47	2nd	SDPM
SW-524-48	2nd	SDPM
SW-524-49	2nd	SDPM
SW-524-50	2nd	SDPM
SW-524-51	2nd	SDPM
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SW-524-74	2nd	SDPM
SW-524-75	2nd	SDPM
SW-524-76	2nd	SDPM
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SW-524-78	2nd	SDPM
SW-524-79	2nd	SDPM
SW-524-80	2nd	SDPM
SW-524-81	2nd	SDPM
SW-524-82	2nd	SDPM
SW-524-83	2nd	SDPM
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SW-524-89	2nd	SDPM
SW-524-90	2nd	SDPM
SW-524-91	2nd	SDPM
SW-524-92	2nd	SDPM
SW-524-93	2nd	SDPM
SW-524-94	2nd	SDPM
SW-524-95	2nd	SDPM
SW-524-96	2nd	SDPM
SW-524-97	2nd	SDPM
SW-524-98	2nd	SDPM
SW-524-99	2nd	SDPM
SW-524-100	2nd	SDPM

Columns: 7.5 x 5.15 x 2.15 x 2.15

Method 5270/LS

Initial Cal. Method 12/1/71

Injection Volume: 1.02

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EOA044.

Supervisor Signature:

Date: 1-7-11

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
	2P3521	DF110			W	1					OK	9:3544
	3522	CC171-25	BWA		W	2					OK	
	3523	CC115-50	1166L		W	3					OK	
	3524	CC154-5	AD9		W	4					OK	
	3525	CC154-2	AD9		W	5					OK	reference only
	3526	2455750-12	46301-1		S	6			-	-	OK	
	3527	-13				7			-	-	OK	
	3528	-14				8			-	-	OK	
	3529	-15				9			-	-	OK	
	3530	-16				10			-	-	OK	
	3531	-17				11			-	-	OK	
	3532	-18				12			-	-	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.

43

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

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Form: OR015-05

Rev. Date: 1/16/2006

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Reissue #3
01/21/11

Technical Report for

AECOM, INC.

Bell Bend Nuclear Power Plant, Salem Township, PA

60160208

Accutest Job Number: JA58900

Sampling Dates: 10/13/10 - 10/14/10

Report to:

AECOM, INC.
2 Technology Park Drive
Westford, MA 01886
andrea.mischel@aecom.com

ATTN: Dion Lewis

Total number of pages in report: **2868**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP, Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



December 13, 2010

Mr. Dion Lewis
AECOM, Inc.
2 Technology Park Drive
Westford, MA 01886

RE: Accutest job JA58900 and JA58750

Dear Mr. Lewis,

The final reports for Accutest job numbers JA58900 and JA58750 have been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, the prep information was missing from original reports of JA58900 and JA58750. The instrument run logs of EH4374 for JA58750, as well as EH4374 and EH4375 for JA58900 have been included and resubmitted.

Accutest apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

A handwritten signature in cursive script that reads 'Tammy McCloskey'.

Accutest Laboratories



December 22, 2010

Mr. Dion Lewis
AECOM, INC.
2 Technology Park Drive
Westford, MA 01886

RE: Accutest Job # JA58900 and JA58750 reissues

Dear Mr. Lewis:

The final report for Accutest jobs number JA58900 and JA58750 have been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, the results for Thallium have been reported for JA58900-1 through -12, -14 as well as for JA58750-1 through -18 as per Andrea Mischel's requested dated on 12/16/2010.

Accutest apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

A handwritten signature in cursive script that reads "Tammy McCloskey".

Accutest Laboratories



January 21, 2011

Mr. Dion Lewis
AECOM, Inc.
2 Technology Park Drive
Westford, MA 01886

RE: Accutest Job # JA58900 reissues

Dear Mr. Lewis,

The final report for Accutest job number JA58900 has been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

The following compounds have been removed per client requested:

For AB8270: 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether,
4-Chlorophenyl-phenylether, Benzaldehyde,
Bis-(2-chloroethoxy)methane, Caprolactam, Dimethylphthalate

For P8081: Endrin Aldehyde Endrin Ketone

For V8260: 1,1,2-Trichloro-1,2,2-trifluoroethane, CHLORODIFLUOROMETHANE,
Dichlorodifluoromethane, METHYLACRYLONITRILE,
P-ISOROPYLATOLUENE, TRANS-1,4-DICHLOROBUTENE,
Trichlorofluoromethane, Vinyl Bromide

For 6010B: Titanium

Also the following compounds have been reported per client requested:

For AB8270: 1,2,4-trichlorobenzene, Pyridine, quinoline

For P8081: Chlordane

For H8151: Dalapon, Dinoseb

For V8260: 2-Nitropropane, n-Butyl Alcohol

Accutest apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

Accutest Laboratories

Cc: Andrea Mischel

New Jersey • Building B • 2235 Route 130 • Dayton, NJ 08810 • tel: 732.329.0200 • fax: 732.329.3499 • <http://www.accutest.com>

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Sample Summary

AECOM, INC.

Job No: JA58900

Bell Bend Nuclear Power Plant, Salem Township, PA
 Project No: 60160208

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JA58900-1	10/14/10	12:30 MH	10/14/10	SO	Soil	BBNPP-D2
JA58900-2	10/14/10	12:45 MH	10/14/10	SO	Soil	BBNPP-D1-C
JA58900-3	10/14/10	12:20 MH	10/14/10	SO	Soil	BBNPP-R-C
JA58900-3D	10/14/10	12:20 MH	10/14/10	SO	Soil Dup/MSD	BBNPP-R-C-MSD
JA58900-3S	10/14/10	12:20 MH	10/14/10	SO	Soil Matrix Spike	BBNPP-R-C-MS
JA58900-4	10/14/10	12:45 MH	10/14/10	SO	Soil	BBNPP-CW22-C
JA58900-5	10/14/10	15:01 MH	10/14/10	AQ	Equipment Blank	BBNPP-C-EB
JA58900-6	10/14/10	15:35 MH	10/14/10	AQ	Field Blank Soil	BBNPP-PB
JA58900-7	10/13/10	14:17 MH	10/14/10	SO	Soil	BBNPP-CW4-C
JA58900-8	10/13/10	15:10 MH	10/14/10	SO	Soil	BBNPP-CW7-C
JA58900-9	10/13/10	15:30 MH	10/14/10	SO	Soil	BBNPP-CW10-C
JA58900-10	10/13/10	15:49 MH	10/14/10	SO	Soil	BBNPP-CW13-C
JA58900-11	10/13/10	16:10 MH	10/14/10	SO	Soil	BBNPP-CW16-C

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

**Sample Summary**

(continued)

AECOM, INC.

Job No: JA58900

Bell Bend Nuclear Power Plant, Salem Township, PA
Project No: 60160208

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JA58900-12	10/13/10	16:32 MH	10/14/10	SO	Soil	BBNPP-CW19-C
JA58900-13	10/14/10	15:35 MH	10/14/10	SO	Trip Blank Soil	T101410
JA58900-14	10/14/10	12:45 MH	10/14/10	SO	Soil	BBNPP-D1-CFD
JA58900-15	10/14/10	15:35 MH	10/14/10	AQ	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: AECOM, INC.

Job No: JA58900

Site: Bell Bend Nuclear Power Plant, Salem Township, PA

Report Date 1/21/2011 12:36:55 P

On 10/14/2010, 12 Sample(s), 2 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 5.6 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA58900 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method DAI BY GC/MS 8260SIM

Matrix: AQ

Batch ID: EH4372

- All samples were analyzed within the recommended method holding time.
- Sample(s) JA58986-IMS, JA58986-IMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Ethylene Glycol are outside control limits. Probable cause due to matrix interference.
- JA58986-IMS for Ethylene Glycol: Outside in house control limits.

Matrix: SO

Batch ID: EH4374

- All samples were analyzed within the recommended method holding time.
- Sample(s) JA58900-3MS, JA58900-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Ethylene Glycol are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Ethylene Glycol are outside control limits. Probable cause due to matrix interference.
- JA58900-9 for Hexanol: High surrogate recoveries and no positive found in this sample.
- JA58900-1 for Hexanol: Outside control limits due to matrix interference. Confirmed by reanalysis.
- JA58900-8 for Hexanol: double spiked.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: VV4578

- ▣ All samples were analyzed within the recommended method holding time.
- ▣ All method blanks for this batch meet method specific criteria.

Matrix: SO

Batch ID: VX4579

- ▣ All samples were analyzed within the recommended method holding time.
- ▣ All method blanks for this batch meet method specific criteria.
- ▣ Sample(s) JA58900-3MS, JA58900-3MSD, JA58900-3MSMSD were used as the QC samples indicated.
- ▣ Blank Spike Recovery(s) for 2-Nitropropane, Vinyl Acetate are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- ▣ Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane, 2-Nitropropane, Acetone, trans-1,2-Dichloroethene are outside control limits. Outside control limits due to matrix interference.
- ▣ Matrix Spike Duplicate Recovery(s) for 2-Nitropropane, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, 1,3,5-Trichlorobenzene are outside control limits. Outside control limits due to matrix interference.
- ▣ RPD(s) for MSD for 1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,3,5-Trichlorobenzene, 1,3,5-Trimethylbenzene, Acetone, Benzyl Chloride, Bromoform, Chlorobenzene, Chloroprene, cis-1,3-Dichloropropene, Hexane, Isopropylbenzene, Methyl methacrylate, n-Butylbenzene, n-Propylbenzene, o-Chlorotoluene, sec-Butylbenzene, Styrene, trans-1,3-Dichloropropene are outside control limits for sample JA58900-3MSD. Outside control limits due to matrix interference.
- ▣ Sample(s) JA59322-1MS, JA59322-1MSD, JA58900-3 have surrogates outside control limits. Confirmation run for internal standard areas and Surrogate recovery.

Extractables by GCMS By Method SW846 8270C**Matrix:** AQ**Batch ID:** OP46278

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA59086-IMS, JA59086-IMSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Benzidine are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Benzidine are outside control limits. Probable cause due to matrix interference.
- OP46278-MS for Phenol-d5: Outside of in house control limits, but within reasonable method recovery limits.
- OP46278-MSD for Phenol-d5: Outside of in house control limits, but within reasonable method recovery limits.

Matrix: SO**Batch ID:** OP46332

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA58900-3MS, JA58900-3MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Benzidine are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,2,4-Trichlorobenzene, Pyridine, Quinoline, 1,1'-Biphenyl, 1,2,4,5-Tetrachlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chlorophenol, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3&4-Methylphenol, 3-Nitroaniline, 4-Chloro-3-methyl phenol, 4-Chlorophenyl phenyl ether, 4-Nitroaniline, Acenaphthene, Acenaphthylene, Acetophenone, Anthracene, Atrazine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzyl Alcohol, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Carbazole, Chrysene, Di-n-butyl phthalate, Di-n-octyl phthalate, Dibenzo(a,h)anthracene, Dibenzofuran, Diethyl phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, N-Nitroso-di-n-propylamine, n-Nitrosodimethylamine, N-Nitrosodiphenylamine, Naphthalene, Nitrobenzene, Phenanthrene, Phenol, Pyrene are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for 1,2,4-Trichlorobenzene, Pyridine, Quinoline, 1,1'-Biphenyl, 1,2,4,5-Tetrachlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chlorophenol, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitroaniline, 2-Nitrophenol, 3&4-Methylphenol, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloro-3-methyl phenol, 4-Chloroaniline, 4-Chlorophenyl phenyl ether, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Acetophenone, Aniline, Anthracene, Atrazine, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzyl Alcohol, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Carbazole, Chrysene, Di-n-butyl phthalate, Di-n-octyl phthalate, Dibenzo(a,h)anthracene, Dibenzofuran, Diethyl phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, N-Nitroso-di-n-propylamine, n-Nitrosodimethylamine, N-Nitrosodiphenylamine, Naphthalene, Nitrobenzene, Pentachlorophenol, Phenanthrene, Phenol, Pyrene are outside control limits for sample OP46332-MSD. Probable cause due to matrix interference.
- OP46332-MSD for 1,2,4,5-Tetrachlorobenzene: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for Chrysene: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for Dibenzofuran: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for Dibenzo(a,h)anthracene: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for Di-n-octyl phthalate: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for Di-n-butyl phthalate: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for Hexachloroethane: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for bis(2-Ethylhexyl)phthalate: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 1,1'-Biphenyl: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 2-Fluorobiphenyl: Outside of in house control limits.
- OP46332-MSD for Fluoranthene: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for Phenol-d5: Outside of in house control limits.
- OP46332-MSD for 2-Nitrophenol: Analytical precision exceeds standard laboratory control limits.

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Extractables by GCMS By Method SW846 8270C

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Matrix: SO

Batch ID: OP46332

- ▣ OP46332-MSD for 2-Nitroaniline: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for 2-Methylphenol: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for 2-Methylnaphthalene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Nitrobenzene-d5: Outside of in house control limits.
- ▣ OP46332-MSD for 1,4-Dichlorobenzene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Diethyl phthalate: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Nitrobenzene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Fluorene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for N-Nitrosodiphenylamine: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for n-Nitrosodimethylamine: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Terphenyl-d14: Outside of in house control limits.
- ▣ OP46332-MSD for 2,4,6-Tribromophenol: Outside of in house control limits.
- ▣ OP46332-MSD for Carbazole: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Isophorone: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Naphthalene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for N-Nitroso-di-n-propylamine: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Hexachlorocyclopentadiene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Hexachlorobutadiene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Hexachlorobenzene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for bis(2-Chloroethyl)ether: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Indeno(1,2,3-cd)pyrene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for 1,2-Dichlorobenzene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Benzoic acid: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Butyl benzyl phthalate: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Acetophenone: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for 3,3'-Dichlorobenzidine: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Pentachlorophenol: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Benzyl Alcohol: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Phenanthrene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Benzo(k)fluoranthene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Benzo(g,h,i)perylene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Benzo(b)fluoranthene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Benzo(a)pyrene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Benzo(a)anthracene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Benzidine: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for 3&4-Methylphenol: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for 1,2-Diphenylhydrazine: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for bis(2-Chloroisopropyl)ether: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Aniline: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Acenaphthylene: Analytical precision exceeds standard laboratory control limits.
- ▣ OP46332-MSD for Acenaphthene: Analytical precision exceeds standard laboratory control limits.

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Extractables by GCMS By Method SW846 8270C

Matrix: SO	Batch ID: OP46332
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- OP46332-MSD for 4-Nitrophenol: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 4-Nitroaniline: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 4-Chlorophenyl phenyl ether: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 4-Chloroaniline: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 4-Chloro-3-methyl phenol: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for Atrazine: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 2-Fluorophenol: Outside of in house control limits.
- OP46332-MSD for Phenol: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for Pyrene: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for Anthracene: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 2,4-Dinitrotoluene: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 1,3-Dichlorobenzene: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 3-Nitroaniline: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 2,3,4,6-Tetrachlorophenol: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 2,4,5-Trichlorophenol: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 2,4,6-Trichlorophenol: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 2,4-Dichlorophenol: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 2,4-Dinitrophenol: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 2,6-Dinitrotoluene: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 2-Chlorophenol: Analytical precision exceeds standard laboratory control limits.
- OP46332-MSD for 2,4-Dimethylphenol: Analytical precision exceeds standard laboratory control limits.

Extractables by GC By Method SW846 8081A

Matrix: AQ	Batch ID: OP46260
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- All samples were extracted within the recommended method holding time.
- Sample(s) JA58965-2MS, JA58965-2MSD, OP46260-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO	Batch ID: OP46373
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- All samples were extracted within the recommended method holding time.
- Sample(s) JA58900-3MS, JA58900-3MSD, OP46373-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8082

Matrix: AQ	Batch ID: OP46259
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- All samples were extracted within the recommended method holding time.
- Sample(s) JA59086-1MS, JA59086-1MSD, OP46259-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO	Batch ID: OP46374
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- All samples were extracted within the recommended method holding time.
- Sample(s) JA58900-3MS, JA58900-3MSD, OP46374-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8141B

Matrix: AQ	Batch ID: F:OP34761
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- The data for SW846 8141B meets quality control requirements.
- JA58900-5: Analysis performed at Accutest Laboratories, Orlando FL.
- JA58900-6: Analysis performed at Accutest Laboratories, Orlando FL.

Matrix: SO	Batch ID: F:OP34758
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- The data for SW846 8141B meets quality control requirements.
- JA58900-14: Analysis performed at Accutest Laboratories, Orlando FL.
- JA58900-4: Analysis performed at Accutest Laboratories, Orlando FL.
- JA58900-2: Analysis performed at Accutest Laboratories, Orlando FL.
- JA58900-1: Analysis performed at Accutest Laboratories, Orlando FL.
- JA58900-3: Analysis performed at Accutest Laboratories, Orlando FL.
- JA58900-12: Analysis performed at Accutest Laboratories, Orlando FL.
- JA58900-8: Analysis performed at Accutest Laboratories, Orlando FL.
- JA58900-7: Analysis performed at Accutest Laboratories, Orlando FL.
- JA58900-11: Analysis performed at Accutest Laboratories, Orlando FL.
- JA58900-10: Analysis performed at Accutest Laboratories, Orlando FL.
- JA58900-9: Analysis performed at Accutest Laboratories, Orlando FL.

Extractables by GC By Method SW846 8151

Matrix: AQ	Batch ID: OP46107
-------------------	--------------------------

- All samples were extracted within the recommended method holding time.
- Sample(s) JA58410-4MS, JA58410-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO	Batch ID: OP46377
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- All samples were extracted within the recommended method holding time.
- Sample(s) JA58900-3MS, JA58900-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Dalapon, 2,4,5-T, 2,4-D are outside control limits.
- OP46377-BS1 for 2,4-D: Outside of in house control limits.
- OP46377-BS1 for 2,4,5-T: Outside of in house control limits.

Matrix: SO	Batch ID: OP46441
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- All method blanks for this batch meet method specific criteria.
- The following samples were extracted outside of holding time for method SW846 8151: JA58900-1, JA58900-10, JA58900-11, JA58900-12, JA58900-14, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9 Original sample prep within hold time. These results were used as confirmation run only.

Extractables by GC By Method SW846 8315**Matrix:** AQ**Batch ID:** M:OP22971

- The data for SW846 8315 meets quality control requirements.
- JA58900-6: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-5: Analysis performed at Accutest Laboratories, Marlborough, MA.

Matrix: SO**Batch ID:** M:OP22999

- The data for SW846 8315 meets quality control requirements.
- JA58900-1: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-12: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-7: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-1: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-10: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-12: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-11: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-8: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-10: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-7: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-4: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-14: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-11: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-4: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-2: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-2: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-3: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-3: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-9: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-14: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-9: Analysis performed at Accutest Laboratories, Marlborough, MA.
- JA58900-8: Analysis performed at Accutest Laboratories, Marlborough, MA.

Metals By Method SW846 6010B**Matrix:** AQ**Batch ID:** MP55431

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA59326-1MS, JA59326-1MSD, JA59326-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Antimony, Cadmium, Chromium, Lead, Nickel, Selenium, Thallium, Vanadium, Zinc are outside control limits for sample MP55431-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO**Batch ID:** MP55449

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA58900-3MS, JA58900-3MSD, JA58900-3SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony are outside control limits. Probable cause due to matrix interference.
- RPD(s) for Serial Dilution for Antimony, Beryllium, Silver, Boron are outside control limits for sample MP55449-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP55449-SD1 for Boron: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7470A**Matrix:** AQ**Batch ID:** MP55517

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 7471A**Matrix:** SO**Batch ID:** MP55530

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA58900-3MS, JA58900-3MSD were used as the QC samples for metals.

Wet Chemistry By Method ASTM D1498-76M**Matrix:** SO**Batch ID:** GN44201

- Sample(s) JA59571-3ADUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method CORP ENG 81M/SW9060M**Matrix:** SO**Batch ID:** GP56130

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA58900-3DUP, JA58900-3MS were used as the QC samples for Total Organic Carbon.
- JA58900-9 for Total Organic Carbon: Multiple injections indicate possible sample non-homogeneity.
- JA58900-14 for Total Organic Carbon: Multiple injections indicate possible sample non-homogeneity.
- JA58900-12 for Total Organic Carbon: Multiple injections indicate possible sample non-homogeneity.
- JA58900-10 for Total Organic Carbon: Multiple injections indicate possible sample non-homogeneity.

Wet Chemistry By Method EPA 300/SW846 9056**Matrix:** AQ**Batch ID:** GP56100

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA59336-1DUP, JA59336-1MS were used as the QC samples for Chloride, Sulfate, Chloride.

Matrix: SO**Batch ID:** GP56125

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA58900-3DUP, JA58900-3MS were used as the QC samples for Chloride, Sulfate, Chloride.

Wet Chemistry By Method EPA 353.2 M/LACHAT**Matrix:** SO**Batch ID:** GP56059

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA58900-3DUP, JA58900-3MS were used as the QC samples for Nitrogen, Nitrate + Nitrite.

Wet Chemistry By Method SM18 2540G**Matrix:** SO**Batch ID:** GN44191

- The data for SM18 2540G meets quality control requirements.

Wet Chemistry By Method SM20 5310B, 9060 M**Matrix:** AQ**Batch ID:** GP56112

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA59906-2MS, JA59906-2MSD were used as the QC samples for Total Organic Carbon.

Wet Chemistry By Method SW846 3060A/7196A**Matrix:** SO**Batch ID:** GP56076

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA58900-3DUP, JA58900-3MS were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Insoluble XCR matrix spike recovery indicates possible matrix interference. See additional comments on soluble matrix spike recovery.
- GP56076-S1 for Chromium, Hexavalent: Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (96.9_%) on this sample.

Wet Chemistry By Method SW846 6010/7196A M

Matrix: AQ	Batch ID: R95036
<ul style="list-style-type: none"> ▫ The data for SW846 6010/7196A M meets quality control requirements. ▫ JA58900-5 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent) 	
Matrix: AQ	Batch ID: R95037
<ul style="list-style-type: none"> ▫ The data for SW846 6010/7196A M meets quality control requirements. ▫ JA58900-6 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent) 	
Matrix: SO	Batch ID: R95091
<ul style="list-style-type: none"> ▫ The data for SW846 6010/7196A M meets quality control requirements. ▫ JA58900-11 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent) 	
Matrix: SO	Batch ID: R95092
<ul style="list-style-type: none"> ▫ The data for SW846 6010/7196A M meets quality control requirements. ▫ JA58900-12 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent) 	
Matrix: SO	Batch ID: R95093
<ul style="list-style-type: none"> ▫ The data for SW846 6010/7196A M meets quality control requirements. ▫ JA58900-14 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent) 	
Matrix: SO	Batch ID: R95095
<ul style="list-style-type: none"> ▫ The data for SW846 6010/7196A M meets quality control requirements. ▫ JA58900-4 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent) 	
Matrix: SO	Batch ID: R95096
<ul style="list-style-type: none"> ▫ The data for SW846 6010/7196A M meets quality control requirements. ▫ JA58900-3 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent) 	
Matrix: SO	Batch ID: R95097
<ul style="list-style-type: none"> ▫ The data for SW846 6010/7196A M meets quality control requirements. ▫ JA58900-1 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent) 	
Matrix: SO	Batch ID: R95098
<ul style="list-style-type: none"> ▫ The data for SW846 6010/7196A M meets quality control requirements. ▫ JA58900-2 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent) 	
Matrix: SO	Batch ID: R95099
<ul style="list-style-type: none"> ▫ The data for SW846 6010/7196A M meets quality control requirements. ▫ JA58900-7 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent) 	
Matrix: SO	Batch ID: R95100
<ul style="list-style-type: none"> ▫ The data for SW846 6010/7196A M meets quality control requirements. ▫ JA58900-8 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent) 	
Matrix: SO	Batch ID: R95101
<ul style="list-style-type: none"> ▫ The data for SW846 6010/7196A M meets quality control requirements. ▫ JA58900-9 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent) 	
Matrix: SO	Batch ID: R95102
<ul style="list-style-type: none"> ▫ The data for SW846 6010/7196A M meets quality control requirements. ▫ JA58900-10 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent) 	

Wet Chemistry By Method SW846 7196A**Matrix:** AQ**Batch ID:** GN43432

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SW846 9012 M/LACHAT**Matrix:** SO**Batch ID:** GP55945

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA58750-11DUP, JA58900-7MS were used as the QC samples for Cyanide.

Matrix: SO**Batch ID:** GP55987

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA58900-3DUP, JA58900-3MS were used as the QC samples for Cyanide.

Matrix: SO**Batch ID:** GP56007

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA58900-12MS, JA59199-12DUP were used as the QC samples for Cyanide.

Wet Chemistry By Method SW846 9045C,D**Matrix:** SO**Batch ID:** GN44202

- Sample(s) JA59571-3ADUP were used as the QC samples for pH.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest New Jersey

Job No JA58900

Site: ENSRMAA: Bell Bend Nuclear Power Plant, Salem Township, PA

Report Date 11/10/2010 1:13:54 PM

12 Sample(s) and 1 Field Blank were collected on between 10/13/2010 and 10/14/2010 and were received at Accutest on 10/14/2010 properly preserved, at 1.9 Deg. C and intact. These Samples received an Accutest job number of JA58900. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method SW846 8315

Matrix	AQ	Batch ID:	OP22971
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- ▣ All samples were extracted within the recommended method holding time.
- ▣ All samples were analyzed within the recommended method holding time.
- ▣ All method blanks for this batch meet method specific criteria.
- ▣ Sample(s) M94706-25MS, M94706-25MSD were used as the QC samples indicated.
- ▣ JA58900-5, OP22971-MS for Butyraldehyde: Outside control limits due to possible matrix interference.
- ▣ OP22971-MB for Butyraldehyde: Confirmed by reanalysis. Associated samples are non-detect targets.

Matrix	SO	Batch ID:	OP22999
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- ▣ All samples were extracted within the recommended method holding time.
- ▣ All samples were analyzed within the recommended method holding time.
- ▣ All method blanks for this batch meet method specific criteria.
- ▣ Sample(s) JA58900-3MS, JA58900-3MSD were used as the QC samples indicated.
- ▣ JA58900-4, JA58900-8, JA58900-9 for Butyraldehyde: Outside control limits due to possible matrix interference.
- ▣ Sample JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7 through JA58900-12, JA58900-14: Acetaldehyde detected in Leachate Blank.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(JA58900).

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest New Jersey

Job JA58900

Site: ENSRMAA: Bell Bend Nuclear Power Plant, Salem Township, PA **Report Date:** 11/5/2010 9:30:37 AM

12 Samples and 1 Field Blank were collected on 10/13/2010 and 10/14/2010 and were received at Accutest SE on 10/16/2010 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of JA58900. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC by Method SW846 8141B

Matrix: AQ

Batch ID: OP34761

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Blank Spike Recoverys for Chlorpyrifos, Diazinon, Disulfoton, Methyl Parathion, Phorate, Ronnel are outside control limits.

Sample OP34761-BS has surrogates outside control limits.

OP34761-BS: Insufficient sample for MS/MSD.

Matrix: SO

Batch ID: OP34758

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples JA58900-3MS, JA58900-3MSD were used as the QC samples indicated.

Blank Spike Recoverys for Chlorpyrifos, Diazinon, Disulfoton, Methyl Parathion, Phorate, Ronnel are outside control limits.

Method may be biased high, but samples are ND.

Matrix Spike Recoverys for Chlorpyrifos, Diazinon, Disulfoton, Methyl Parathion, Phorate, Ronnel are outside control limits.

Probable cause due to matrix interference.

Matrix Spike Duplicate Recoverys for Chlorpyrifos, Diazinon, Disulfoton, Phorate, Ronnel are outside control limits.

Probable cause due to matrix interference.

Sample OP34761-BS has surrogates outside control limits.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date: November 05, 2010

Ellen Pampel, Inorganic QA (signature on file)

Friday, November 05, 2010



Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

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3.1

Client Sample ID:	BBNPP-D2	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-1	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	75.9
Method:	DAI BY GC/MS 8260SIM		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H100603.D	1	10/27/10	KLS	n/a	n/a	EH4374
Run #2 ^a	H100593.D	1	10/27/10	KLS	n/a	n/a	EH4374

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.33	0.10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	47% ^b	29% ^b	50-150%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.1

Client Sample ID: BBNPP-D2

Lab Sample ID: JA58900-1

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8260B

Percent Solids: 75.9

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108365.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

Initial Weight

Run #1 9.2 g

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	7.2	1.6	ug/kg	
75-05-8	Acetonitrile	ND	72	17	ug/kg	
107-02-8	Acrolein	ND	36	10	ug/kg	
107-13-1	Acrylonitrile	ND	36	0.59	ug/kg	
107-05-1	Allyl chloride	ND	3.6	0.62	ug/kg	
71-43-2	Benzene	ND	0.72	0.24	ug/kg	
100-44-7	Benzyl Chloride	ND	3.6	0.28	ug/kg	
74-97-5	Bromochloromethane	ND	3.6	0.16	ug/kg	
75-27-4	Bromodichloromethane	ND	3.6	0.18	ug/kg	
75-25-2	Bromoform	ND	3.6	0.11	ug/kg	
74-83-9	Bromomethane	ND	3.6	0.29	ug/kg	
78-93-3	2-Butanone (MEK)	ND	7.2	1.4	ug/kg	
71-36-3	n-Butyl Alcohol	ND	180	68	ug/kg	
104-51-8	n-Butylbenzene	ND	3.6	0.27	ug/kg	
135-98-8	sec-Butylbenzene	ND	3.6	0.35	ug/kg	
98-06-6	tert-Butylbenzene	ND	3.6	0.34	ug/kg	
75-15-0	Carbon disulfide	ND	3.6	0.22	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.6	0.40	ug/kg	
108-90-7	Chlorobenzene	ND	3.6	0.24	ug/kg	
75-00-3	Chloroethane	ND	3.6	0.72	ug/kg	
67-66-3	Chloroform	ND	3.6	0.23	ug/kg	
74-87-3	Chloromethane	ND	3.6	0.12	ug/kg	
126-99-8	Chloroprene	ND	3.6	0.79	ug/kg	
95-49-8	o-Chlorotoluene	ND	3.6	0.20	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.2	0.39	ug/kg	
124-48-1	Dibromochloromethane	ND	3.6	0.079	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.72	0.098	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.6	0.099	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.72	0.25	ug/kg	
75-35-4	1,1-Dichloroethene	ND	3.6	0.47	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	3.6	0.17	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	3.6	0.32	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-D2	Date Sampled: 10/14/10
Lab Sample ID: JA58900-1	Date Received: 10/14/10
Matrix: SO - Soil	Percent Solids: 75.9
Method: SW846 8260B	
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	3.6	0.093	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.6	0.095	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.6	0.069	ug/kg	
123-91-1	1,4-Dioxane	ND	90	62	ug/kg	
106-89-8	Epichlorohydrin	ND	72	1.2	ug/kg	
141-78-6	Ethyl Acetate	ND	3.6	1.4	ug/kg	
60-29-7	Ethyl Ether	ND	3.6	0.23	ug/kg	
97-63-2	Ethyl methacrylate	ND	7.2	0.093	ug/kg	
100-41-4	Ethylbenzene	ND	0.72	0.27	ug/kg	
110-54-3	Hexane	ND	3.6	0.11	ug/kg	
78-83-1	Isobutyl alcohol	ND	36	8.9	ug/kg	
98-82-8	Isopropylbenzene	ND	3.6	0.37	ug/kg	
79-20-9	Methyl Acetate	ND	3.6	0.59	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.72	0.20	ug/kg	
80-62-6	Methyl methacrylate	ND	7.2	0.82	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	3.6	0.58	ug/kg	
74-95-3	Methylene bromide	ND	3.6	0.13	ug/kg	
75-09-2	Methylene chloride	ND	3.6	0.16	ug/kg	
79-46-9	2-Nitropropane	ND	7.2	0.87	ug/kg	
103-65-1	n-Propylbenzene	ND	3.6	0.18	ug/kg	
100-42-5	Styrene	ND	3.6	0.077	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.6	0.076	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.6	0.21	ug/kg	
127-18-4	Tetrachloroethene	ND	3.6	0.10	ug/kg	
108-88-3	Toluene	ND	0.72	0.21	ug/kg	
108-70-3	1,3,5-Trichlorobenzene	ND	3.6		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.6	0.092	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.6	0.13	ug/kg	
79-01-6	Trichloroethene	ND	3.6	0.38	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.6	0.23	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.6	0.31	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.6	0.26	ug/kg	
108-05-4	Vinyl Acetate	ND	7.2	0.75	ug/kg	
75-01-4	Vinyl chloride	ND	3.6	0.13	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		67-127%
17060-07-0	1,2-Dichloroethane-D4	92%		65-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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3.1



Client Sample ID: BBNPP-D2	Date Sampled: 10/14/10
Lab Sample ID: JA58900-1	Date Received: 10/14/10
Matrix: SO - Soil	Percent Solids: 75.9
Method: SW846 8260B	
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	135%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.1

3.1

Client Sample ID:	BBNPP-D2	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-1	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	75.9
Method:	SW846 8270C SW846 3550B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P728.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	750	68	ug/kg	
95-57-8	2-Chlorophenol	ND	190	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	60	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	63	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	750	46	ug/kg	
95-48-7	2-Methylphenol	ND	75	43	ug/kg	
	3&4-Methylphenol	ND	75	48	ug/kg	
88-75-5	2-Nitrophenol	ND	190	40	ug/kg	
100-02-7	4-Nitrophenol	ND	380	63	ug/kg	
87-86-5	Pentachlorophenol	ND	380	64	ug/kg	
108-95-2	Phenol	ND	75	39	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	44	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	35	ug/kg	
83-32-9	Acenaphthene	ND	38	11	ug/kg	
208-96-8	Acenaphthylene	ND	38	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.6	ug/kg	
62-53-3	Aniline	ND	75	7.9	ug/kg	
120-12-7	Anthracene	ND	38	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.4	ug/kg	
92-87-5	Benzidine	ND	750	140	ug/kg	
56-55-3	Benzo(a)anthracene	ND	38	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	38	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	38	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	38	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	38	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	75	22	ug/kg	
100-51-6	Benzyl Alcohol	ND	75	16	ug/kg	
92-52-4	1,1'-Biphenyl	ND	75	4.4	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	75	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-D2	
Lab Sample ID: JA58900-1	Date Sampled: 10/14/10
Matrix: SO - Soil	Date Received: 10/14/10
Method: SW846 8270C SW846 3550B	Percent Solids: 75.9
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	38	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	75	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	75	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	75	11	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	75	11	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	75	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	75	10	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	75	8.4	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	75	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	75	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	9.5	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	38	13	ug/kg	
132-64-9	Dibenzofuran	ND	75	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	75	8.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	75	18	ug/kg	
84-66-2	Diethyl phthalate	ND	75	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	75	33	ug/kg	
206-44-0	Fluoranthene	ND	38	17	ug/kg	
86-73-7	Fluorene	ND	38	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	75	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	750	38	ug/kg	
67-72-1	Hexachloroethane	ND	190	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38	13	ug/kg	
78-59-1	Isophorone	ND	75	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	75	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	ND	38	10	ug/kg	
98-95-3	Nitrobenzene	ND	75	11	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	75	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	75	9.2	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	22	ug/kg	
85-01-8	Phenanthrene	ND	38	17	ug/kg	
129-00-0	Pyrene	ND	38	14	ug/kg	
110-86-1	Pyridine	ND	75	15	ug/kg	
91-22-5	Quinoline	ND	190	35	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	75	10	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-D2	Date Sampled: 10/14/10
Lab Sample ID: JA58900-1	Date Received: 10/14/10
Matrix: SO - Soil	Percent Solids: 75.9
Method: SW846 8270C SW846 3550B	
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		30-109%
4165-62-2	Phenol-d5	33%		28-108%
118-79-6	2,4,6-Tribromophenol	42%		28-125%
4165-60-0	Nitrobenzene-d5	40%		28-113%
321-60-8	2-Fluorobiphenyl	45%		38-107%
1718-51-0	Terphenyl-d14	49%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.1

Client Sample ID:	BBNPP-D2	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-1	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	75.9
Method:	SW846 8141B SW846 3550B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZZ11456.D	1	10/21/10	AFL	10/20/10	F:OP34758	F:GZZ439
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

OP Pesticide List

CAS No.	Compound	Result	RL	MDL	Units	Q
2921-88-2	Chlorpyrifos	ND	87	22	ug/kg	
333-41-5	Diazinon	ND	87	22	ug/kg	
62-73-7	Dichlorvos	ND	87	22	ug/kg	
60-51-5	Dimethoate	ND	87	22	ug/kg	
298-04-4	Disulfoton	ND	87	43	ug/kg	
56-38-2	Ethyl Parathion	ND	87	22	ug/kg	
121-75-5	Malathion	ND	87	22	ug/kg	
298-00-0	Methyl Parathion	ND	87	22	ug/kg	
298-02-2	Phorate	ND	87	22	ug/kg	
299-84-3	Ronnel	ND	87	22	ug/kg	
3689-24-5	Sulfotep	ND	87	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
115-86-6	Triphenyl phosphate	107%		48-133%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.1

Client Sample ID: BBNPP-D2

Lab Sample ID: JA58900-1

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8151 SW846 3550B

Percent Solids: 75.9

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW95564.D	1	11/02/10	TDR	10/27/10	OP46377	GW3343
Run #2 ^a	WW95610.D	1	11/04/10	TDR	10/30/10	OP46441	GW3346

	Initial Weight	Final Volume
Run #1	35.2 g	10.0 ml
Run #2	35.1 g	10.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	19	6.0	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	3.7	0.72	ug/kg	
93-76-5	2,4,5-T	ND	3.7	1.5	ug/kg	
75-99-0	Dalapon	ND	3.7	2.6	ug/kg	
88-85-7	Dinoseb	ND	19	5.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	62%	85%	13-146%
19719-28-9	2,4-DCAA	44%	84%	13-146%

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
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 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.1

Client Sample ID: BBNPP-D2

Lab Sample ID: JA58900-1

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8315 SW846 3510C

Percent Solids: 75.9

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	VU28480.D	1	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1288
Run #2 ^a	VU28520.D	5	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1289

Run #	Initial Weight	Final Volume
Run #1	25.0 g	1.0 ml
Run #2	25.0 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
50-00-0	Formaldehyde	23800 ^b	5300	750	ug/kg	
75-07-0	Acetaldehyde	99.0	1100	62	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
123-72-8	Butyraldehyde	161%	142%	18-186%
123-72-8	Butyraldehyde	163%	146%	18-186%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.1

Client Sample ID:	BBNPP-D2	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-1	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	75.9
Method:	SW846 8081A SW846 3545		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G941.D	1	11/01/10	OPM	10/27/10	OP46373	G4G27
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.6	0.69	ug/kg	
319-84-6	alpha-BHC	ND	1.6	0.48	ug/kg	
319-85-7	beta-BHC	ND	1.6	0.75	ug/kg	
319-86-8	delta-BHC	ND	1.6	0.42	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.6	0.48	ug/kg	
12789-03-6	Chlordane	ND	39	11	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.6	0.52	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.6	0.61	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.52	ug/kg	
72-54-8	4,4'-DDD	ND	1.6	0.66	ug/kg	
72-55-9	4,4'-DDE	ND	1.6	0.54	ug/kg	
50-29-3	4,4'-DDT	ND	1.6	0.65	ug/kg	
72-20-8	Endrin	ND	1.6	0.54	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.6	0.59	ug/kg	
959-98-8	Endosulfan-I	ND	1.6	0.53	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.59	ug/kg	
76-44-8	Heptachlor	ND	1.6	0.70	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.6	0.60	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.69	ug/kg	
8001-35-2	Toxaphene	ND	19	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		23-137%
877-09-8	Tetrachloro-m-xylene	59%		23-137%
2051-24-3	Decachlorobiphenyl	84%		22-160%
2051-24-3	Decachlorobiphenyl	79%		22-160%

ND = Not detected MDL - Method Detection Limit
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 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.1

Client Sample ID: BBNPP-D2

Lab Sample ID: JA58900-1

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8082 SW846 3545

Percent Solids: 75.9

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF93914.D	1	10/28/10	VDT	10/27/10	OP46374	GEF4072
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	14	ug/kg	
11104-28-2	Aroclor 1221	ND	39	26	ug/kg	
11141-16-5	Aroclor 1232	ND	39	12	ug/kg	
53469-21-9	Aroclor 1242	ND	39	14	ug/kg	
12672-29-6	Aroclor 1248	ND	39	7.7	ug/kg	
11097-69-1	Aroclor 1254	ND	39	9.8	ug/kg	
11096-82-5	Aroclor 1260	ND	39	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		22-141%
877-09-8	Tetrachloro-m-xylene	78%		22-141%
2051-24-3	Decachlorobiphenyl	108%		18-163%
2051-24-3	Decachlorobiphenyl	113%		18-163%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-D2

Lab Sample ID: JA58900-1

Matrix: SO - Soil

Date Sampled: 10/14/10

Date Received: 10/14/10

Percent Solids: 75.9

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.5	2.5	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Arsenic	3.7	2.5	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Barium	30.0	25	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Beryllium	0.37	0.25	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Boron	< 13	13	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Cadmium	< 0.64	0.64	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Chromium	9.2	1.3	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Cobalt	7.6	6.4	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Copper	14.8	3.2	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Lead	9.4	2.5	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Manganese	456	1.9	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Mercury	< 0.042	0.042	mg/kg	1	11/07/10	11/08/10	JF	SW846 7471A ²
Nickel	15.5	5.1	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Selenium	< 2.5	2.5	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Silver	< 0.64	0.64	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Thallium	< 1.3	1.3	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Tin	< 6.4	6.4	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Vanadium	11.1	6.4	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹
Zinc	42.6	2.5	mg/kg	1	11/02/10	11/02/10	VC	SW846 6010B ¹

(1) Instrument QC Batch: MA25281

(2) Instrument QC Batch: MA25311

(3) Prep QC Batch: MP55449

(4) Prep QC Batch: MP55530

RL = Reporting Limit

Report of Analysis



Client Sample ID: BBNPP-D2

Lab Sample ID: JA58900-1

Matrix: SO - Soil

Date Sampled: 10/14/10

Date Received: 10/14/10

Percent Solids: 75.9

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 26	26	mg/kg	1	11/01/10 21:17	MS	EPA 300/SW846 9056
Chromium, Hexavalent	< 0.53	0.53	mg/kg	1	11/03/10 12:31	RI	SW846 3060A/7196A
Chromium, Trivalent ^a	9.2	1.8	mg/kg	1	11/03/10 12:31	RI	SW846 6010/7196A M
Cyanide	< 0.31	0.31	mg/kg	1	10/25/10 14:30	NP	SW846 9012 M/LACHAT
Nitrogen, Nitrate + Nitrite	< 24	24	mg/kg	1	10/28/10 10:58	NP	EPA 353.2 M/LACHAT
Redox Potential Vs H2	428		mv	1	11/03/10	SS	ASTM D1498-76M
Solids, Percent	75.9		%	1	11/03/10	KH	SM18 2540G
Sulfate	< 130	130	mg/kg	1	11/01/10 21:17	MS	EPA 300/SW846 9056
Total Organic Carbon	31900	1300	mg/kg	1	11/02/10 11:16	SJG	CORP ENG 81M/SW9060M
pH	7.91		su	1	11/03/10	SS	SW846 9045C,D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

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3.2



Client Sample ID:	BBNPP-D1-C			Date Sampled:	10/14/10		
Lab Sample ID:	JA58900-2			Date Received:	10/14/10		
Matrix:	SO - Soil			Percent Solids:	68.8		
Method:	DAI BY GC/MS 8260SIM						
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H100594.D	1	10/27/10	KLS	n/a	n/a	EH4374
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.36	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	111%		50-150%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.2
3

Client Sample ID: BBNPP-D1-C

Lab Sample ID: JA58900-2

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8260B

Percent Solids: 68.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108366.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

Run #	Initial Weight
Run #1	10.3 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	28.6	7.1	1.6	ug/kg	
75-05-8	Acetonitrile	ND	71	17	ug/kg	
107-02-8	Acrolein	ND	35	10	ug/kg	
107-13-1	Acrylonitrile	ND	35	0.58	ug/kg	
107-05-1	Allyl chloride	ND	3.5	0.61	ug/kg	
71-43-2	Benzene	ND	0.71	0.24	ug/kg	
74-97-5	Bromochloromethane	ND	3.5	0.16	ug/kg	
75-27-4	Bromodichloromethane	ND	3.5	0.18	ug/kg	
75-25-2	Bromoform	ND	3.5	0.11	ug/kg	
74-83-9	Bromomethane	ND	3.5	0.29	ug/kg	
78-93-3	2-Butanone (MEK)	6.2	7.1	1.4	ug/kg	J
71-36-3	n-Butyl Alcohol	ND	180	67	ug/kg	
104-51-8	n-Butylbenzene	ND	3.5	0.27	ug/kg	
135-98-8	sec-Butylbenzene	ND	3.5	0.34	ug/kg	
98-06-6	tert-Butylbenzene	ND	3.5	0.34	ug/kg	
75-15-0	Carbon disulfide	ND	3.5	0.22	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.5	0.39	ug/kg	
108-90-7	Chlorobenzene	ND	3.5	0.24	ug/kg	
75-00-3	Chloroethane	ND	3.5	0.71	ug/kg	
67-66-3	Chloroform	ND	3.5	0.22	ug/kg	
74-87-3	Chloromethane	ND	3.5	0.12	ug/kg	
126-99-8	Chloroprene	ND	3.5	0.78	ug/kg	
95-49-8	o-Chlorotoluene	ND	3.5	0.20	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.1	0.38	ug/kg	
124-48-1	Dibromochloromethane	ND	3.5	0.078	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.71	0.097	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.5	0.097	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.71	0.24	ug/kg	
75-35-4	1,1-Dichloroethene	ND	3.5	0.47	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	3.5	0.17	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	3.5	0.32	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.5	0.092	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-D1-C	Date Sampled: 10/14/10
Lab Sample ID: JA58900-2	Date Received: 10/14/10
Matrix: SO - Soil	Percent Solids: 68.8
Method: SW846 8260B	
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	3.5	0.094	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.5	0.068	ug/kg	
123-91-1	1,4-Dioxane	ND	88	61	ug/kg	
141-78-6	Ethyl Acetate	ND	3.5	1.4	ug/kg	
60-29-7	Ethyl Ether	ND	3.5	0.23	ug/kg	
97-63-2	Ethyl methacrylate	ND	7.1	0.092	ug/kg	
100-41-4	Ethylbenzene	ND	0.71	0.26	ug/kg	
110-54-3	Hexane	ND	3.5	0.11	ug/kg	
78-83-1	Isobutyl alcohol	ND	35	8.7	ug/kg	
98-82-8	Isopropylbenzene	ND	3.5	0.37	ug/kg	
79-20-9	Methyl Acetate	ND	3.5	0.58	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.71	0.20	ug/kg	
80-62-6	Methyl methacrylate	ND	7.1	0.80	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	3.5	0.57	ug/kg	
74-95-3	Methylene bromide	ND	3.5	0.12	ug/kg	
75-09-2	Methylene chloride	ND	3.5	0.16	ug/kg	
79-46-9	2-Nitropropane	ND	7.1	0.85	ug/kg	
103-65-1	n-Propylbenzene	ND	3.5	0.18	ug/kg	
100-42-5	Styrene	ND	3.5	0.075	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.5	0.075	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.5	0.21	ug/kg	
127-18-4	Tetrachloroethene	ND	3.5	0.10	ug/kg	
108-88-3	Toluene	0.21	0.71	0.21	ug/kg	J
108-70-3	1,3,5-Trichlorobenzene	ND	3.5		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.5	0.090	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.5	0.13	ug/kg	
79-01-6	Trichloroethene	ND	3.5	0.37	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.5	0.22	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.5	0.30	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.5	0.25	ug/kg	
108-05-4	Vinyl Acetate	ND	7.1	0.74	ug/kg	
75-01-4	Vinyl chloride	ND	3.5	0.13	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		67-127%
17060-07-0	1,2-Dichloroethane-D4	105%		65-132%
2037-26-5	Toluene-D8	109%		74-129%
460-00-4	4-Bromofluorobenzene	114%		62-138%

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3

Client Sample ID: BBNPP-D1-C

Lab Sample ID: JA58900-2

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8270C SW846 3550B

Percent Solids: 68.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P734.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	76	ug/kg	
95-57-8	2-Chlorophenol	ND	210	42	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	42	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	67	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	70	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	51	ug/kg	
95-48-7	2-Methylphenol	ND	83	47	ug/kg	
	3&4-Methylphenol	ND	83	53	ug/kg	
88-75-5	2-Nitrophenol	ND	210	44	ug/kg	
100-02-7	4-Nitrophenol	ND	420	70	ug/kg	
87-86-5	Pentachlorophenol	ND	420	71	ug/kg	
108-95-2	Phenol	ND	83	44	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	210	43	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	48	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	39	ug/kg	
83-32-9	Acenaphthene	ND	42	12	ug/kg	
208-96-8	Acenaphthylene	ND	42	13	ug/kg	
98-86-2	Acetophenone	ND	210	7.3	ug/kg	
62-53-3	Aniline	ND	83	8.7	ug/kg	
120-12-7	Anthracene	ND	42	15	ug/kg	
1912-24-9	Atrazine	ND	210	8.2	ug/kg	
92-87-5	Benzidine	ND	830	150	ug/kg	
56-55-3	Benzo(a)anthracene	ND	42	14	ug/kg	
50-32-8	Benzo(a)pyrene	ND	42	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	42	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	42	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	42	16	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	83	24	ug/kg	
100-51-6	Benzyl Alcohol	ND	83	17	ug/kg	
92-52-4	1,1'-Biphenyl	ND	83	4.8	ug/kg	
106-47-8	4-Chloroaniline	ND	210	13	ug/kg	
86-74-8	Carbazole	ND	83	19	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-D1-C		
Lab Sample ID:	JA58900-2	Date Sampled:	10/14/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	68.8
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	42	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	83	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	83	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	83	12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	83	12	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	83	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	83	11	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	83	9.3	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	83	18	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	83	16	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	210	11	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	42	14	ug/kg	
132-64-9	Dibenzofuran	ND	83	12	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	83	9.2	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	83	20	ug/kg	
84-66-2	Diethyl phthalate	ND	83	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	83	37	ug/kg	
206-44-0	Fluoranthene	ND	42	18	ug/kg	
86-73-7	Fluorene	ND	42	14	ug/kg	
118-74-1	Hexachlorobenzene	ND	83	14	ug/kg	
87-68-3	Hexachlorobutadiene	ND	42	12	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	830	42	ug/kg	
67-72-1	Hexachloroethane	ND	210	12	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42	14	ug/kg	
78-59-1	Isophorone	ND	83	11	ug/kg	
91-57-6	2-Methylnaphthalene	ND	83	23	ug/kg	
88-74-4	2-Nitroaniline	ND	210	18	ug/kg	
99-09-2	3-Nitroaniline	ND	210	17	ug/kg	
100-01-6	4-Nitroaniline	ND	210	16	ug/kg	
91-20-3	Naphthalene	ND	42	11	ug/kg	
98-95-3	Nitrobenzene	ND	83	12	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	83	37	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	83	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	25	ug/kg	
85-01-8	Phenanthrene	ND	42	19	ug/kg	
129-00-0	Pyrene	ND	42	16	ug/kg	
110-86-1	Pyridine	ND	83	17	ug/kg	
91-22-5	Quinoline	ND	210	39	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	210	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	83	11	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID: BBNPP-D1-C	
Lab Sample ID: JA58900-2	Date Sampled: 10/14/10
Matrix: SO - Soil	Date Received: 10/14/10
Method: SW846 8270C SW846 3550B	Percent Solids: 68.8
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		30-109%
4165-62-2	Phenol-d5	36%		28-108%
118-79-6	2,4,6-Tribromophenol	60%		28-125%
4165-60-0	Nitrobenzene-d5	47%		28-113%
321-60-8	2-Fluorobiphenyl	54%		38-107%
1718-51-0	Terphenyl-d14	68%		31-116%

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J = Indicates an estimated value
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Accutest Laboratories

Report of Analysis

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3.2

Client Sample ID: BBNPP-D1-C

Lab Sample ID: JA58900-2

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8141B SW846 3550B

Percent Solids: 68.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZZ11457.D	1	10/21/10	AFL	10/20/10	F:OP34758	F:GZZ439
Run #2							

Run #	Initial Weight	Final Volume
Run #1	29.6 g	10.0 ml
Run #2		

OP Pesticide List

CAS No.	Compound	Result	RL	MDL	Units	Q
2921-88-2	Chlorpyrifos	ND	98	25	ug/kg	
333-41-5	Diazinon	ND	98	25	ug/kg	
62-73-7	Dichlorvos	ND	98	25	ug/kg	
60-51-5	Dimethoate	ND	98	25	ug/kg	
298-04-4	Disulfoton	ND	98	49	ug/kg	
56-38-2	Ethyl Parathion	ND	98	25	ug/kg	
121-75-5	Malathion	ND	98	25	ug/kg	
298-00-0	Methyl Parathion	ND	98	25	ug/kg	
298-02-2	Phorate	ND	98	25	ug/kg	
299-84-3	Ronnel	ND	98	25	ug/kg	
3689-24-5	Sulfotep	ND	98	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
115-86-6	Triphenyl phosphate	125%		48-133%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
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 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.2

Client Sample ID: BBNPP-D1-C

Lab Sample ID: JA58900-2

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8151 SW846 3550B

Percent Solids: 68.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW95565.D	1	11/02/10	TDR	10/27/10	OP46377	GW3343
Run #2 ^a	WW95611.D	1	11/04/10	TDR	10/30/10	OP46441	GW3346

Run #	Initial Weight	Final Volume
Run #1	35.2 g	10.0 ml
Run #2	35.0 g	10.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	21	6.6	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	4.1	0.79	ug/kg	
93-76-5	2,4,5-T	ND	4.1	1.6	ug/kg	
75-99-0	Dalapon	ND	4.1	2.9	ug/kg	
88-85-7	Dinoseb	ND	21	5.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	77%	71%	13-146%
19719-28-9	2,4-DCAA	39%	66%	13-146%

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
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 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.2

3

Client Sample ID: BBNPP-D1-C

Lab Sample ID: JA58900-2

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8315 SW846 3510C

Percent Solids: 68.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	VU28481.D	1	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1288
Run #2 ^a	VU28521.D	5	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1289

	Initial Weight	Final Volume
Run #1	25.0 g	1.0 ml
Run #2	25.0 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
50-00-0	Formaldehyde	9210 ^b	5800	830	ug/kg	
75-07-0	Acetaldehyde	120	1200	68	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
123-72-8	Butyraldehyde	179%	160%	18-186%
123-72-8	Butyraldehyde	177%	164%	18-186%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-D1-C

Lab Sample ID: JA58900-2

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8081A SW846 3545

Percent Solids: 68.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G942.D	1	11/01/10	OPM	10/27/10	OP46373	G4G27
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.77	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.53	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.83	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.53	ug/kg	
12789-03-6	Chlordane	ND	43	13	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.7	0.58	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.7	0.67	ug/kg	
60-57-1	Dieldrin	ND	1.7	0.58	ug/kg	
72-54-8	4,4'-DDD	ND	1.7	0.73	ug/kg	
72-55-9	4,4'-DDE	ND	1.7	0.59	ug/kg	
50-29-3	4,4'-DDT	ND	1.7	0.72	ug/kg	
72-20-8	Endrin	ND	1.7	0.59	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.7	0.65	ug/kg	
959-98-8	Endosulfan-I	ND	1.7	0.58	ug/kg	
33213-65-9	Endosulfan-II	ND	1.7	0.65	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.77	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.66	ug/kg	
72-43-5	Methoxychlor	ND	1.7	0.76	ug/kg	
8001-35-2	Toxaphene	ND	21	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	65%		23-137%
877-09-8	Tetrachloro-m-xylene	61%		23-137%
2051-24-3	Decachlorobiphenyl	80%		22-160%
2051-24-3	Decachlorobiphenyl	78%		22-160%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.2

Client Sample ID: BBNPP-D1-C

Lab Sample ID: JA58900-2

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8082 SW846 3545

Percent Solids: 68.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF93919.D	1	10/28/10	VDT	10/27/10	OP46374	GEF4072
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	43	15	ug/kg	
11104-28-2	Aroclor 1221	ND	43	28	ug/kg	
11141-16-5	Aroclor 1232	ND	43	14	ug/kg	
53469-21-9	Aroclor 1242	ND	43	15	ug/kg	
12672-29-6	Aroclor 1248	ND	43	8.5	ug/kg	
11097-69-1	Aroclor 1254	ND	43	11	ug/kg	
11096-82-5	Aroclor 1260	ND	43	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		22-141%
877-09-8	Tetrachloro-m-xylene	80%		22-141%
2051-24-3	Decachlorobiphenyl	105%		18-163%
2051-24-3	Decachlorobiphenyl	114%		18-163%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-D1-C

Lab Sample ID: JA58900-2

Matrix: SO - Soil

Date Sampled: 10/14/10

Date Received: 10/14/10

Percent Solids: 68.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.9	2.9	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Arsenic	3.6	2.9	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Barium	47.6	29	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Beryllium	0.52	0.29	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Boron	< 14	14	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cadmium	< 0.72	0.72	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Chromium	15.2	1.4	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cobalt	9.8	7.2	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Copper	14.8	3.6	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Lead	10.1	2.9	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Manganese	580	2.1	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Mercury	< 0.045	0.045	mg/kg	1	11/07/10	11/08/10 JF	SW846 7471A ²	SW846 7471A ⁴
Nickel	24.0	5.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Selenium	< 2.9	2.9	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Silver	< 0.72	0.72	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Thallium	< 1.4	1.4	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Tin	< 7.2	7.2	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Vanadium	15.6	7.2	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Zinc	63.6	2.9	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³

(1) Instrument QC Batch: MA25281

(2) Instrument QC Batch: MA25311

(3) Prep QC Batch: MP55449

(4) Prep QC Batch: MP55530

RL = Reporting Limit

Report of Analysis

Client Sample ID: BBNPP-D1-C

Lab Sample ID: JA58900-2

Matrix: SO - Soil

Date Sampled: 10/14/10

Date Received: 10/14/10

Percent Solids: 68.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 29	29	mg/kg	1	11/01/10 21:41	MS	EPA 300/SW846 9056
Chromium, Hexavalent	< 0.58	0.58	mg/kg	1	11/03/10 12:31	RI	SW846 3060A/7196A
Chromium, Trivalent ^a	14.7	2.0	mg/kg	1	11/03/10 12:31	RI	SW846 6010/7196A M
Cyanide	< 0.30	0.30	mg/kg	1	10/25/10 14:32	NP	SW846 9012 M/LACHAT
Nitrogen, Nitrate + Nitrite	< 27	27	mg/kg	1	10/28/10 10:59	NP	EPA 353.2 M/LACHAT
Redox Potential Vs H2	414		mv	1	11/03/10	SS	ASTM D1498-76M
Solids, Percent	68.8		%	1	11/03/10	KH	SM18 2540G
Sulfate	< 140	140	mg/kg	1	11/01/10 21:41	MS	EPA 300/SW846 9056
Total Organic Carbon	8170	1500	mg/kg	1	11/02/10 11:28	SJG	CORP ENG 81M/SW9060M
pH	7.47		su	1	11/03/10	SS	SW846 9045C,D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

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3.3

**Client Sample ID:** BBNPP-R-C**Lab Sample ID:** JA58900-3**Date Sampled:** 10/14/10**Matrix:** SO - Soil**Date Received:** 10/14/10**Method:** DAI BY GC/MS 8260SIM**Percent Solids:** 74.8**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H100577.D	1	10/26/10	KLS	n/a	n/a	EH4374
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.33	0.10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	119%		50-150%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-R-C

Lab Sample ID: JA58900-3

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8260B

Percent Solids: 74.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108352.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2 ^a	X108358.D	1	10/26/10	JTP	n/a	n/a	VX4579

	Initial Weight
Run #1	10.8 g
Run #2	9.9 g

VOA Appendix IX + STAR List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	6.2	1.4	ug/kg	
75-05-8	Acetonitrile	ND	62	15	ug/kg	
107-02-8	Acrolein	ND	31	8.9	ug/kg	
107-13-1	Acrylonitrile	ND	31	0.51	ug/kg	
107-05-1	Allyl chloride	ND	3.1	0.53	ug/kg	
71-43-2	Benzene	ND	0.62	0.21	ug/kg	
74-97-5	Bromochloromethane	ND	3.1	0.14	ug/kg	
75-27-4	Bromodichloromethane	ND	3.1	0.16	ug/kg	
75-25-2	Bromoform	ND	3.1	0.093	ug/kg	
74-83-9	Bromomethane	ND	3.1	0.25	ug/kg	
78-93-3	2-Butanone (MEK)	ND	6.2	1.2	ug/kg	
71-36-3	n-Butyl Alcohol	ND	150	58	ug/kg	
104-51-8	n-Butylbenzene	ND	3.1	0.24	ug/kg	
135-98-8	sec-Butylbenzene	ND	3.1	0.30	ug/kg	
98-06-6	tert-Butylbenzene	ND	3.1	0.29	ug/kg	
75-15-0	Carbon disulfide	ND	3.1	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.1	0.34	ug/kg	
108-90-7	Chlorobenzene	ND	3.1	0.21	ug/kg	
75-00-3	Chloroethane	ND	3.1	0.62	ug/kg	
67-66-3	Chloroform	ND	3.1	0.20	ug/kg	
74-87-3	Chloromethane	ND	3.1	0.10	ug/kg	
126-99-8	Chloroprene	ND	3.1	0.69	ug/kg	
95-49-8	o-Chlorotoluene	ND	3.1	0.18	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.2	0.33	ug/kg	
124-48-1	Dibromochloromethane	ND	3.1	0.068	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.62	0.085	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.1	0.085	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.62	0.21	ug/kg	
75-35-4	1,1-Dichloroethene	ND	3.1	0.41	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	3.1	0.15	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	3.1	0.28	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.1	0.080	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-R-C	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-3	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	74.8
Method:	SW846 8260B		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Appendix IX + STAR List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	0.082	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	0.059	ug/kg	
123-91-1	1,4-Dioxane	ND	77	53	ug/kg	
141-78-6	Ethyl Acetate	ND	3.1	1.2	ug/kg	
60-29-7	Ethyl Ether	ND	3.1	0.20	ug/kg	
97-63-2	Ethyl methacrylate	ND	6.2	0.080	ug/kg	
100-41-4	Ethylbenzene	ND	0.62	0.23	ug/kg	
110-54-3	Hexane	ND	3.1	0.095	ug/kg	
78-83-1	Isobutyl alcohol	ND	31	7.7	ug/kg	
98-82-8	Isopropylbenzene	ND	3.1	0.32	ug/kg	
79-20-9	Methyl Acetate	ND	3.1	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.62	0.17	ug/kg	
80-62-6	Methyl methacrylate	ND	6.2	0.71	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	3.1	0.50	ug/kg	
74-95-3	Methylene bromide	ND	3.1	0.11	ug/kg	
75-09-2	Methylene chloride	ND	3.1	0.14	ug/kg	
79-46-9	2-Nitropropane	ND	6.2	0.75	ug/kg	
103-65-1	n-Propylbenzene	ND	3.1	0.16	ug/kg	
100-42-5	Styrene	ND	3.1	0.066	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.1	0.066	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.1	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	3.1	0.090	ug/kg	
108-88-3	Toluene	ND	0.62	0.18	ug/kg	
108-70-3	1,3,5-Trichlorobenzene	ND	3.1		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.1	0.079	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.1	0.11	ug/kg	
79-01-6	Trichloroethene	ND	3.1	0.33	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.1	0.20	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.1	0.27	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.1	0.22	ug/kg	
108-05-4	Vinyl Acetate	ND	6.2	0.65	ug/kg	
75-01-4	Vinyl chloride	ND	3.1	0.11	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	142% ^b	67-127%
17060-07-0	1,2-Dichloroethane-D4	102%	110%	65-132%
2037-26-5	Toluene-D8	106%	85%	74-129%
460-00-4	4-Bromofluorobenzene	147% ^b	184% ^b	62-138%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: BBNPP-R-C	Date Sampled: 10/14/10
Lab Sample ID: JA58900-3	Date Received: 10/14/10
Matrix: SO - Soil	Percent Solids: 74.8
Method: SW846 8260B	
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	



VOA Appendix IX + STAR List

CAS No.	Compound	Result	RL	MDL	Units	Q
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- (a) Confirmation run for internal standard areas and Surrogate recovery.
(b) Outside control limits due to sample matrix.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-R-C

Lab Sample ID: JA58900-3

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8270C SW846 3550B

Percent Solids: 74.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P705.D	1	11/01/10	KLS	10/25/10	OP46332	E3P33
Run #2							

Run #	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	760	70	ug/kg	
95-57-8	2-Chlorophenol	ND	190	39	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	61	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	64	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	760	47	ug/kg	
95-48-7	2-Methylphenol	ND	76	44	ug/kg	
	3&4-Methylphenol	ND	76	49	ug/kg	
88-75-5	2-Nitrophenol	ND	190	40	ug/kg	
100-02-7	4-Nitrophenol	ND	380	65	ug/kg	
87-86-5	Pentachlorophenol	ND	380	65	ug/kg	
108-95-2	Phenol	ND	76	40	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	44	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	36	ug/kg	
83-32-9	Acenaphthene	ND	38	11	ug/kg	
208-96-8	Acenaphthylene	ND	38	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.7	ug/kg	
62-53-3	Aniline	ND	76	8.0	ug/kg	
120-12-7	Anthracene	ND	38	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.5	ug/kg	
92-87-5	Benzidine	ND	760	140	ug/kg	
56-55-3	Benzo(a)anthracene	ND	38	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	38	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	38	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	38	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	38	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	76	22	ug/kg	
100-51-6	Benzyl Alcohol	ND	76	16	ug/kg	
92-52-4	1,1'-Biphenyl	ND	76	4.4	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	76	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-R-C	Date Sampled: 10/14/10
Lab Sample ID: JA58900-3	Date Received: 10/14/10
Matrix: SO - Soil	Percent Solids: 74.8
Method: SW846 8270C SW846 3550B	
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	38	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	76	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	76	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	76	11	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	76	11	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	76	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	76	10	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	76	8.5	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	76	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	76	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	9.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	38	13	ug/kg	
132-64-9	Dibenzofuran	ND	76	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	76	8.5	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	76	19	ug/kg	
84-66-2	Diethyl phthalate	ND	76	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	76	34	ug/kg	
206-44-0	Fluoranthene	ND	38	17	ug/kg	
86-73-7	Fluorene	ND	38	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	76	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	760	39	ug/kg	
67-72-1	Hexachloroethane	ND	190	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38	13	ug/kg	
78-59-1	Isophorone	ND	76	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	76	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	ND	38	10	ug/kg	
98-95-3	Nitrobenzene	ND	76	11	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	76	34	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	76	9.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	ND	38	17	ug/kg	
129-00-0	Pyrene	ND	38	15	ug/kg	
110-86-1	Pyridine	ND	76	15	ug/kg	
91-22-5	Quinoline	ND	190	36	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	76	10	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID: BBNPP-R-C	
Lab Sample ID: JA58900-3	Date Sampled: 10/14/10
Matrix: SO - Soil	Date Received: 10/14/10
Method: SW846 8270C SW846 3550B	Percent Solids: 74.8
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		30-109%
4165-62-2	Phenol-d5	39%		28-108%
118-79-6	2,4,6-Tribromophenol	67%		28-125%
4165-60-0	Nitrobenzene-d5	48%		28-113%
321-60-8	2-Fluorobiphenyl	55%		38-107%
1718-51-0	Terphenyl-d14	70%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-R-C

Lab Sample ID: JA58900-3

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8141B SW846 3550B

Percent Solids: 74.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZZ11458.D	1	10/21/10	AFL	10/20/10	F:OP34758	F:GZZ439
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	10.0 ml
Run #2		

OP Pesticide List

CAS No.	Compound	Result	RL	MDL	Units	Q
2921-88-2	Chlorpyrifos	ND	88	22	ug/kg	
333-41-5	Diazinon	ND	88	22	ug/kg	
62-73-7	Dichlorvos	ND	88	22	ug/kg	
60-51-5	Dimethoate	ND	88	22	ug/kg	
298-04-4	Disulfoton	ND	88	44	ug/kg	
56-38-2	Ethyl Parathion	ND	88	22	ug/kg	
121-75-5	Malathion	ND	88	22	ug/kg	
298-00-0	Methyl Parathion	ND	88	22	ug/kg	
298-02-2	Phorate	ND	88	22	ug/kg	
299-84-3	Ronnel	ND	88	22	ug/kg	
3689-24-5	Sulfotep	ND	88	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
115-86-6	Triphenyl phosphate	109%		48-133%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.3

Client Sample ID: BBNPP-R-C

Lab Sample ID: JA58900-3

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8151 SW846 3550B

Percent Solids: 74.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW95485.D	1	10/28/10	TDR	10/27/10	OP46377	GW3340
Run #2 ^a	WW95626.D	1	11/04/10	TDR	10/30/10	OP46441	GW3346

Run #	Initial Weight	Final Volume
Run #1	35.4 g	10.0 ml
Run #2	35.3 g	10.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	19	6.0	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	3.8	0.73	ug/kg	
93-76-5	2,4,5-T	ND	3.8	1.5	ug/kg	
75-99-0	Dalapon	ND	3.8	2.6	ug/kg	
88-85-7	Dinoseb	ND	19	5.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	65%	78%	13-146%
19719-28-9	2,4-DCAA	65%	76%	13-146%

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.3

3

Client Sample ID:	BBNPP-R-C	Date Sampled:	10/14/10
Lab Sample ID:	JA58900-3	Date Received:	10/14/10
Matrix:	SO - Soil	Percent Solids:	74.8
Method:	SW846 8315 SW846 3510C		
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	VU28482.D	1	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1288
Run #2 ^a	VU28522.D	5	10/22/10	AMA	10/19/10	M:OP22999	M:GVU1289

	Initial Weight	Final Volume
Run #1	25.0 g	1.0 ml
Run #2	25.0 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
50-00-0	Formaldehyde	19800 ^b	5300	760	ug/kg	
75-07-0	Acetaldehyde	95.3	1100	63	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
123-72-8	Butyraldehyde	180%	152%	18-186%
123-72-8	Butyraldehyde	150%	152%	18-186%

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-R-C

Lab Sample ID: JA58900-3

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8081A SW846 3545

Percent Solids: 74.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G933.D	1	11/01/10	OPM	10/27/10	OP46373	G4G27
Run #2							

Run #	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.6	0.70	ug/kg	
319-84-6	alpha-BHC	ND	1.6	0.48	ug/kg	
319-85-7	beta-BHC	ND	1.6	0.76	ug/kg	
319-86-8	delta-BHC	ND	1.6	0.43	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.6	0.49	ug/kg	
12789-03-6	Chlordane	ND	39	12	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.6	0.53	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.6	0.61	ug/kg	
60-57-1	Dieldrin	ND	1.6	0.53	ug/kg	
72-54-8	4,4'-DDD	ND	1.6	0.67	ug/kg	
72-55-9	4,4'-DDE	ND	1.6	0.54	ug/kg	
50-29-3	4,4'-DDT	ND	1.6	0.66	ug/kg	
72-20-8	Endrin	ND	1.6	0.54	ug/kg	
1031-07-8	Endosulfan sulfate	ND	1.6	0.60	ug/kg	
959-98-8	Endosulfan-I	ND	1.6	0.54	ug/kg	
33213-65-9	Endosulfan-II	ND	1.6	0.60	ug/kg	
76-44-8	Heptachlor	ND	1.6	0.71	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.6	0.60	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.70	ug/kg	
8001-35-2	Toxaphene	ND	20	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		23-137%
877-09-8	Tetrachloro-m-xylene	89%		23-137%
2051-24-3	Decachlorobiphenyl	107%		22-160%
2051-24-3	Decachlorobiphenyl	103%		22-160%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID: BBNPP-R-C

Lab Sample ID: JA58900-3

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8082 SW846 3545

Percent Solids: 74.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF93913.D	1	10/28/10	VDT	10/27/10	OP46374	GEF4072
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	14	ug/kg	
11104-28-2	Aroclor 1221	ND	39	26	ug/kg	
11141-16-5	Aroclor 1232	ND	39	13	ug/kg	
53469-21-9	Aroclor 1242	ND	39	14	ug/kg	
12672-29-6	Aroclor 1248	ND	39	7.8	ug/kg	
11097-69-1	Aroclor 1254	ND	39	9.9	ug/kg	
11096-82-5	Aroclor 1260	ND	39	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		22-141%
877-09-8	Tetrachloro-m-xylene	89%		22-141%
2051-24-3	Decachlorobiphenyl	115%		18-163%
2051-24-3	Decachlorobiphenyl	120%		18-163%

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 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BBNPP-R-C

Lab Sample ID: JA58900-3

Matrix: SO - Soil

Date Sampled: 10/14/10

Date Received: 10/14/10

Percent Solids: 74.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.7	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Arsenic	4.6	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Barium	29.0	27	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Beryllium	0.35	0.27	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Boron	< 13	13	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cadmium	< 0.67	0.67	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Chromium	8.9	1.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Cobalt	7.4	6.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Copper	14.5	3.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Lead	8.9	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Manganese	429	2.0	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Mercury	< 0.039	0.039	mg/kg	1	11/07/10	11/08/10 JF	SW846 7471A ²	SW846 7471A ⁴
Nickel	14.4	5.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Selenium	< 2.7	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Silver	< 0.67	0.67	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Thallium	< 1.3	1.3	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Tin	< 6.7	6.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Vanadium	10.5	6.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³
Zinc	38.4	2.7	mg/kg	1	11/02/10	11/02/10 VC	SW846 6010B ¹	SW846 3050B ³

(1) Instrument QC Batch: MA25281

(2) Instrument QC Batch: MA25311

(3) Prep QC Batch: MP55449

(4) Prep QC Batch: MP55530

RL = Reporting Limit

Report of Analysis

Client Sample ID: BBNPP-R-C

Lab Sample ID: JA58900-3

Matrix: SO - Soil

Date Sampled: 10/14/10

Date Received: 10/14/10

Percent Solids: 74.8

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 27	27	mg/kg	1	11/01/10 20:53	MS	EPA 300/SW846 9056
Chromium, Hexavalent	< 0.53	0.53	mg/kg	1	11/03/10 10:56	RI	SW846 3060A/7196A
Chromium, Trivalent ^a	8.9	1.8	mg/kg	1	11/03/10 10:56	RI	SW846 6010/7196A M
Cyanide	< 0.28	0.28	mg/kg	1	10/25/10 14:35	NP	SW846 9012 M/LACHAT
Nitrogen, Nitrate + Nitrite	< 25	25	mg/kg	1	10/28/10 11:00	NP	EPA 353.2 M/LACHAT
Redox Potential Vs H2	419		mv	1	11/03/10	SS	ASTM D1498-76M
Solids, Percent	74.8		%	1	11/03/10	KH	SM18 2540G
Sulfate	< 130	130	mg/kg	1	11/01/10 20:53	MS	EPA 300/SW846 9056
Total Organic Carbon	12600	1300	mg/kg	1	11/02/10 10:45	SJG	CORP ENG 81M/SW9060M
pH	6.80		su	1	11/03/10	SS	SW846 9045C,D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

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3.4

Client Sample ID: BBNPP-CW22-C**Lab Sample ID:** JA58900-4**Date Sampled:** 10/14/10**Matrix:** SO - Soil**Date Received:** 10/14/10**Method:** DAI BY GC/MS 8260SIM**Percent Solids:** 78.1**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H100595.D	1	10/27/10	KLS	n/a	n/a	EH4374
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
107-21-1	Ethylene Glycol	ND	0.32	0.10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	118%		50-150%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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3.4

3.4

Client Sample ID: BBNPP-CW22-C

Lab Sample ID: JA58900-4

Date Sampled: 10/14/10

Matrix: SO - Soil

Date Received: 10/14/10

Method: SW846 8260B

Percent Solids: 78.1

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108367.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

Run #	Initial Weight
Run #1	9.3 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	6.9	1.5	ug/kg	
75-05-8	Acetonitrile	ND	69	16	ug/kg	
107-02-8	Acrolein	ND	34	9.8	ug/kg	
107-13-1	Acrylonitrile	ND	34	0.57	ug/kg	
107-05-1	Allyl chloride	ND	3.4	0.59	ug/kg	
71-43-2	Benzene	ND	0.69	0.23	ug/kg	
100-44-7	Benzyl Chloride	ND	3.4	0.27	ug/kg	
74-97-5	Bromochloromethane	ND	3.4	0.15	ug/kg	
75-27-4	Bromodichloromethane	ND	3.4	0.18	ug/kg	
75-25-2	Bromoform	ND	3.4	0.10	ug/kg	
74-83-9	Bromomethane	ND	3.4	0.28	ug/kg	
78-93-3	2-Butanone (MEK)	ND	6.9	1.4	ug/kg	
71-36-3	n-Butyl Alcohol	ND	170	65	ug/kg	
104-51-8	n-Butylbenzene	ND	3.4	0.26	ug/kg	
135-98-8	sec-Butylbenzene	ND	3.4	0.34	ug/kg	
98-06-6	tert-Butylbenzene	ND	3.4	0.33	ug/kg	
75-15-0	Carbon disulfide	ND	3.4	0.21	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.4	0.38	ug/kg	
108-90-7	Chlorobenzene	ND	3.4	0.23	ug/kg	
75-00-3	Chloroethane	ND	3.4	0.69	ug/kg	
67-66-3	Chloroform	ND	3.4	0.22	ug/kg	
74-87-3	Chloromethane	ND	3.4	0.11	ug/kg	
126-99-8	Chloroprene	ND	3.4	0.76	ug/kg	
95-49-8	o-Chlorotoluene	ND	3.4	0.20	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.9	0.37	ug/kg	
124-48-1	Dibromochloromethane	ND	3.4	0.076	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.69	0.094	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.4	0.095	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.69	0.24	ug/kg	
75-35-4	1,1-Dichloroethene	ND	3.4	0.46	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	3.4	0.16	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	3.4	0.31	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BBNPP-CW22-C		
Lab Sample ID:	JA58900-4	Date Sampled:	10/14/10
Matrix:	SO - Soil	Date Received:	10/14/10
Method:	SW846 8260B	Percent Solids:	78.1
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	3.4	0.089	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.4	0.092	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.4	0.066	ug/kg	
123-91-1	1,4-Dioxane	ND	86	59	ug/kg	
106-89-8	Epichlorohydrin	ND	69	1.2	ug/kg	
141-78-6	Ethyl Acetate	ND	3.4	1.3	ug/kg	
60-29-7	Ethyl Ether	ND	3.4	0.23	ug/kg	
97-63-2	Ethyl methacrylate	ND	6.9	0.089	ug/kg	
100-41-4	Ethylbenzene	ND	0.69	0.26	ug/kg	
110-54-3	Hexane	ND	3.4	0.11	ug/kg	
78-83-1	Isobutyl alcohol	ND	34	8.5	ug/kg	
98-82-8	Isopropylbenzene	ND	3.4	0.36	ug/kg	
79-20-9	Methyl Acetate	ND	3.4	0.57	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.69	0.19	ug/kg	
80-62-6	Methyl methacrylate	ND	6.9	0.78	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	3.4	0.56	ug/kg	
74-95-3	Methylene bromide	ND	3.4	0.12	ug/kg	
75-09-2	Methylene chloride	ND	3.4	0.15	ug/kg	
79-46-9	2-Nitropropane	ND	6.9	0.83	ug/kg	
103-65-1	n-Propylbenzene	ND	3.4	0.18	ug/kg	
100-42-5	Styrene	ND	3.4	0.074	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.4	0.073	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.4	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	3.4	0.10	ug/kg	
108-88-3	Toluene	ND	0.69	0.20	ug/kg	
108-70-3	1,3,5-Trichlorobenzene	ND	3.4		ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.4	0.088	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.4	0.13	ug/kg	
79-01-6	Trichloroethene	ND	3.4	0.36	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3.4	0.22	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.4	0.30	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.4	0.25	ug/kg	
108-05-4	Vinyl Acetate	ND	6.9	0.72	ug/kg	
75-01-4	Vinyl chloride	ND	3.4	0.12	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		67-127%
17060-07-0	1,2-Dichloroethane-D4	95%		65-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID: BBNPP-CW22-C	Date Sampled: 10/14/10
Lab Sample ID: JA58900-4	Date Received: 10/14/10
Matrix: SO - Soil	Percent Solids: 78.1
Method: SW846 8260B	
Project: Bell Bend Nuclear Power Plant, Salem Township, PA	

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	112%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound