STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL
DIVISION OF WATER RESOURCES
89 KINGS HIGHWAY
DOVER, DELAWARE 19901

ENVIRONMENTAL
LABORATORY SECTION

PHONE: (302) 739-9942
FAX: (302) 739-3491

June 20, 2011

DAWM - Site Investigation & Remediation Branch
391 Lukens Drive
New Castle, DE 19720

Attention: Robert M. Schulte

Enclosed you will find the following Laboratory Results for the following samples received at our laboratory:

Project Name *Procino Plating*

Client Sample Description	ELS Sample Number	Date Sampled	Date Received	Test
PP-MW03 D	1105054-002	5/24/2011	5/31/2011	SVOC - TCL Semivolatiles by GC/MS
PP-MW03 D	1105054-002	5/24/2011	5/31/2011	VOC - TCLVolatiles by GC/MS
PP-MW06 D	1105054-005	5/25/2011	5/31/2011	SVOC - TCL Semivolatiles by GC/MS
PP-MW06 D	1105054-005	5/25/2011	5/31/2011	VOC - TCLVolatiles by GC/MS
PP-SB01 S	1105054-003	5/24/2011	5/31/2011	SVOC - TCL Semivolatiles by GC/MS
PP-SB01 S	1105054-003	5/24/2011	5/31/2011	VOC - TCLVolatiles by GC/MS
PP-SB04 D	1105054-006	5/26/2011	5/31/2011	SVOC - TCL Semivolatiles by GC/MS
PP-SB04 D	1105054-006	5/26/2011	5/31/2011	VOC - TCLVolatiles by GC/MS
PP-SB05 S	1105054-004	5/25/2011	5/31/2011	SVOC - TCL Semivolatiles by GC/MS
PP-SB05 S	1105054-004	5/25/2011	5/31/2011	VOC - TCLVolatiles by GC/MS
Trip Blank	1105054-001	4/27/2011	5/31/2011	VOC - TCLVolatiles by GC/MS

An Invoice for our services is also enclosed. If you have any questions regarding this data, please contact me at the above telephone number.

Sincerely,

Kathy A. Knowles
Laboratory Manager

PROJECT NARRATIVE
Procino Plating
Order Number 1105054
Matrix: Soil

1 Discussion of Exceptions / Quality Control Abnormalities

1.1 None

2 Dilutions

2.1 None

3 Method References

3.1 The laboratory followed analytical protocol from USEPA SW-846 Method 8260B and the State of Delaware Hazardous Substance Cleanup Act SOP Revision April 1996.

4 Method Deviations

4.1 None

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-001
Method: EPA 8260B
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	470	U	05/31/2011 13:23
74-87-3	Chloromethane	1	470	U	05/31/2011 13:23
75-01-4	Vinyl Chloride	1	470	U	05/31/2011 13:23
74-83-9	Bromomethane	1	470	U	05/31/2011 13:23
75-00-3	Chloroethane	1	470	U	05/31/2011 13:23
75-69-4	Trichlorofluoromethane	1	470	U	05/31/2011 13:23
75-35-4	1,1-Dichloroethene	1	470	U	05/31/2011 13:23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	470	U	05/31/2011 13:23
67-64-1	Acetone	1	470	U	05/31/2011 13:23
75-15-0	Carbon Disulfide	1	470	U	05/31/2011 13:23
79-20-9	Methyl Acetate	1	470	U	05/31/2011 13:23
75-09-2	Methylene Chloride	1	470	U	05/31/2011 13:23
156-60-5	trans-1,2-Dichloroethene	1	470	U	05/31/2011 13:23
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	470	U	05/31/2011 13:23
75-34-3	1,1-Dichloroethane	1	470	U	05/31/2011 13:23
156-59-2	cis-1,2-Dichloroethene	1	470	U	05/31/2011 13:23
78-93-3	2-Butanone (MEK)	1	470	U	05/31/2011 13:23
67-66-3	Chloroform	1	470	U	05/31/2011 13:23
107-06-2	1,2-Dichloroethane (EDC)	1	470	U	05/31/2011 13:23
71-55-6	1,1,1-Trichloroethane	1	470	U	05/31/2011 13:23
110-82-7	Cyclohexane	1	470	U	05/31/2011 13:23
56-23-5	Carbon Tetrachloride	1	470	U	05/31/2011 13:23
71-43-2	Benzene	1	470	U	05/31/2011 13:23
79-01-6	Trichloroethene	1	470	U	05/31/2011 13:23
108-87-2	Methylcyclohexane	1	470	U	05/31/2011 13:23
78-87-5	1,2-Dichloropropane	1	470	U	05/31/2011 13:23
75-27-4	Bromodichloromethane	1	470	U	05/31/2011 13:23
10061-01-5	cis-1,3-Dichloropropene	1	470	U	05/31/2011 13:23
10061-02-6	trans-1,3-Dichloropropene	1	470	U	05/31/2011 13:23
79-00-5	1,1,2-Trichloroethane	1	470	U	05/31/2011 13:23
124-48-1	Dibromochloromethane	1	470	U	05/31/2011 13:23
75-25-2	Bromoform	1	470	U	05/31/2011 13:23
108-10-1	4-Methyl-2-pentanone (MIBK)	1	470	U	05/31/2011 13:23
108-88-3	Toluene	1	470	U	05/31/2011 13:23
127-18-4	Tetrachloroethene	1	470	U	05/31/2011 13:23
591-78-6	2-Hexanone	1	470	U	05/31/2011 13:23
106-93-4	1,2-Dibromoethane (EDB)	1	470	U	05/31/2011 13:23
108-90-7	Chlorobenzene	1	470	U	05/31/2011 13:23
100-41-4	Ethylbenzene	1	470	U	05/31/2011 13:23
XYLMP	m/p-Xylene	1	470	U	05/31/2011 13:23
95-47-6	o-Xylene	1	470	U	05/31/2011 13:23
XYLENES	Xylenes (Total)	1	470	U	05/31/2011 13:23
100-42-5	Styrene	1	470	U	05/31/2011 13:23
98-82-8	Isopropylbenzene (Cumene)	1	470	U	05/31/2011 13:23
79-34-5	1,1,2,2-Tetrachloroethane	1	470	U	05/31/2011 13:23
541-73-1	1,3-Dichlorobenzene	1	470	U	05/31/2011 13:23
106-46-7	1,4-Dichlorobenzene	1	470	U	05/31/2011 13:23
95-50-1	1,2-Dichlorobenzene	1	470	U	05/31/2011 13:23
96-12-8	1,2-Dibromo-3-chloropropane	1	470	U	05/31/2011 13:23
120-82-1	1,2,4-Trichlorobenzene	1	470	U	05/31/2011 13:23

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-MW03 D

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-002
Method: EPA 8260B
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	750	U	05/31/2011 14:21
74-87-3	Chloromethane	1	750	U	05/31/2011 14:21
75-01-4	Vinyl Chloride	1	750	U	05/31/2011 14:21
74-83-9	Bromomethane	1	750	U	05/31/2011 14:21
75-00-3	Chloroethane	1	750	U	05/31/2011 14:21
75-69-4	Trichlorofluoromethane	1	750	U	05/31/2011 14:21
75-35-4	1,1-Dichloroethene	1	750	U	05/31/2011 14:21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	750	U	05/31/2011 14:21
67-64-1	Acetone	1	750	U	05/31/2011 14:21
75-15-0	Carbon Disulfide	1	750	U	05/31/2011 14:21
79-20-9	Methyl Acetate	1	750	U	05/31/2011 14:21
75-09-2	Methylene Chloride	1	750	U	05/31/2011 14:21
156-60-5	trans-1,2-Dichloroethene	1	750	U	05/31/2011 14:21
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	750	U	05/31/2011 14:21
75-34-3	1,1-Dichloroethane	1	750	U	05/31/2011 14:21
156-59-2	cis-1,2-Dichloroethene	1	750	U	05/31/2011 14:21
78-93-3	2-Butanone (MEK)	1	750	U	05/31/2011 14:21
67-66-3	Chloroform	1	750	U	05/31/2011 14:21
107-06-2	1,2-Dichloroethane (EDC)	1	750	U	05/31/2011 14:21
71-55-6	1,1,1-Trichloroethane	1	750	U	05/31/2011 14:21
110-82-7	Cyclohexane	1	750	U	05/31/2011 14:21
56-23-5	Carbon Tetrachloride	1	750	U	05/31/2011 14:21
71-43-2	Benzene	1	750	U	05/31/2011 14:21
79-01-6	Trichloroethene	1	750	U	05/31/2011 14:21
108-87-2	Methylcyclohexane	1	750	U	05/31/2011 14:21
78-87-5	1,2-Dichloropropane	1	750	U	05/31/2011 14:21
75-27-4	Bromodichloromethane	1	750	U	05/31/2011 14:21
10061-01-5	cis-1,3-Dichloropropene	1	750	U	05/31/2011 14:21
10061-02-6	trans-1,3-Dichloropropene	1	750	U	05/31/2011 14:21
79-00-5	1,1,2-Trichloroethane	1	750	U	05/31/2011 14:21
124-48-1	Dibromochloromethane	1	750	U	05/31/2011 14:21
75-25-2	Bromoform	1	750	U	05/31/2011 14:21
108-10-1	4-Methyl-2-pentanone (MIBK)	1	750	U	05/31/2011 14:21
108-88-3	Toluene	1	750	U	05/31/2011 14:21
127-18-4	Tetrachloroethene	1	750	U	05/31/2011 14:21
591-78-6	2-Hexanone	1	750	U	05/31/2011 14:21
106-93-4	1,2-Dibromoethane (EDB)	1	750	U	05/31/2011 14:21
108-90-7	Chlorobenzene	1	750	U	05/31/2011 14:21
100-41-4	Ethylbenzene	1	750	U	05/31/2011 14:21
XYLMP	m/p-Xylene	1	750	U	05/31/2011 14:21
95-47-6	o-Xylene	1	750	U	05/31/2011 14:21
XYLENES	Xylenes (Total)	1	750	U	05/31/2011 14:21
100-42-5	Styrene	1	750	U	05/31/2011 14:21
98-82-8	Isopropylbenzene (Cumene)	1	750	U	05/31/2011 14:21
79-34-5	1,1,2,2-Tetrachloroethane	1	750	U	05/31/2011 14:21
541-73-1	1,3-Dichlorobenzene	1	750	U	05/31/2011 14:21
106-46-7	1,4-Dichlorobenzene	1	750	U	05/31/2011 14:21
95-50-1	1,2-Dichlorobenzene	1	750	U	05/31/2011 14:21
96-12-8	1,2-Dibromo-3-chloropropane	1	750	U	05/31/2011 14:21
120-82-1	1,2,4-Trichlorobenzene	1	750	U	05/31/2011 14:21

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-MW03 D MS

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-002A
Method: EPA 8260B
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	750	U	05/31/2011 14:50
74-87-3	Chloromethane	1	750	U	05/31/2011 14:50
75-01-4	Vinyl Chloride	1	750	U	05/31/2011 14:50
74-83-9	Bromomethane	1	750	U	05/31/2011 14:50
75-00-3	Chloroethane	1	750	U	05/31/2011 14:50
75-69-4	Trichlorofluoromethane	1	750	U	05/31/2011 14:50
75-35-4	1,1-Dichloroethene	1	4700		05/31/2011 14:50
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	750	U	05/31/2011 14:50
67-64-1	Acetone	1	750	U	05/31/2011 14:50
75-15-0	Carbon Disulfide	1	750	U	05/31/2011 14:50
79-20-9	Methyl Acetate	1	750	U	05/31/2011 14:50
75-09-2	Methylene Chloride	1	750	U	05/31/2011 14:50
156-60-5	trans-1,2-Dichloroethene	1	750	U	05/31/2011 14:50
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	750	U	05/31/2011 14:50
75-34-3	1,1-Dichloroethane	1	750	U	05/31/2011 14:50
156-59-2	cis-1,2-Dichloroethene	1	750	U	05/31/2011 14:50
78-93-3	2-Butanone (MEK)	1	750	U	05/31/2011 14:50
67-66-3	Chloroform	1	750	U	05/31/2011 14:50
107-06-2	1,2-Dichloroethane (EDC)	1	750	U	05/31/2011 14:50
71-55-6	1,1,1-Trichloroethane	1	750	U	05/31/2011 14:50
110-82-7	Cyclohexane	1	750	U	05/31/2011 14:50
56-23-5	Carbon Tetrachloride	1	750	U	05/31/2011 14:50
71-43-2	Benzene	1	4300		05/31/2011 14:50
79-01-6	Trichloroethene	1	4300		05/31/2011 14:50
108-87-2	Methylcyclohexane	1	750	U	05/31/2011 14:50
78-87-5	1,2-Dichloropropane	1	750	U	05/31/2011 14:50
75-27-4	Bromodichloromethane	1	750	U	05/31/2011 14:50
10061-01-5	cis-1,3-Dichloropropene	1	750	U	05/31/2011 14:50
10061-02-6	trans-1,3-Dichloropropene	1	750	U	05/31/2011 14:50
79-00-5	1,1,2-Trichloroethane	1	750	U	05/31/2011 14:50
124-48-1	Dibromochloromethane	1	750	U	05/31/2011 14:50
75-25-2	Bromoform	1	750	U	05/31/2011 14:50
108-10-1	4-Methyl-2-pentanone (MIBK)	1	750	U	05/31/2011 14:50
108-88-3	Toluene	1	4200		05/31/2011 14:50
127-18-4	Tetrachloroethene	1	750	U	05/31/2011 14:50
591-78-6	2-Hexanone	1	750	U	05/31/2011 14:50
106-93-4	1,2-Dibromoethane (EDB)	1	750	U	05/31/2011 14:50
108-90-7	Chlorobenzene	1	4200		05/31/2011 14:50
100-41-4	Ethylbenzene	1	750	U	05/31/2011 14:50
XYLMP	m/p-Xylene	1	750	U	05/31/2011 14:50
95-47-6	o-Xylene	1	750	U	05/31/2011 14:50
XYLENES	Xylenes (Total)	1	750	U	05/31/2011 14:50
100-42-5	Styrene	1	750	U	05/31/2011 14:50
98-82-8	Isopropylbenzene (Cumene)	1	750	U	05/31/2011 14:50
79-34-5	1,1,2,2-Tetrachloroethane	1	750	U	05/31/2011 14:50
541-73-1	1,3-Dichlorobenzene	1	750	U	05/31/2011 14:50
106-46-7	1,4-Dichlorobenzene	1	750	U	05/31/2011 14:50
95-50-1	1,2-Dichlorobenzene	1	750	U	05/31/2011 14:50
96-12-8	1,2-Dibromo-3-chloropropane	1	750	U	05/31/2011 14:50
120-82-1	1,2,4-Trichlorobenzene	1	750	U	05/31/2011 14:50

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-MW03 D MSD

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-002B
Method: EPA 8260B
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	750	U	05/31/2011 15:19
74-87-3	Chloromethane	1	750	U	05/31/2011 15:19
75-01-4	Vinyl Chloride	1	750	U	05/31/2011 15:19
74-83-9	Bromomethane	1	750	U	05/31/2011 15:19
75-00-3	Chloroethane	1	750	U	05/31/2011 15:19
75-69-4	Trichlorofluoromethane	1	750	U	05/31/2011 15:19
75-35-4	1,1-Dichloroethene	1	4800		05/31/2011 15:19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	750	U	05/31/2011 15:19
67-64-1	Acetone	1	750	U	05/31/2011 15:19
75-15-0	Carbon Disulfide	1	750	U	05/31/2011 15:19
79-20-9	Methyl Acetate	1	750	U	05/31/2011 15:19
75-09-2	Methylene Chloride	1	750	U	05/31/2011 15:19
156-60-5	trans-1,2-Dichloroethene	1	750	U	05/31/2011 15:19
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	750	U	05/31/2011 15:19
75-34-3	1,1-Dichloroethane	1	750	U	05/31/2011 15:19
156-59-2	cis-1,2-Dichloroethene	1	750	U	05/31/2011 15:19
78-93-3	2-Butanone (MEK)	1	750	U	05/31/2011 15:19
67-66-3	Chloroform	1	750	U	05/31/2011 15:19
107-06-2	1,2-Dichloroethane (EDC)	1	750	U	05/31/2011 15:19
71-55-6	1,1,1-Trichloroethane	1	750	U	05/31/2011 15:19
110-82-7	Cyclohexane	1	750	U	05/31/2011 15:19
56-23-5	Carbon Tetrachloride	1	750	U	05/31/2011 15:19
71-43-2	Benzene	1	4500		05/31/2011 15:19
79-01-6	Trichloroethene	1	4500		05/31/2011 15:19
108-87-2	Methylcyclohexane	1	750	U	05/31/2011 15:19
78-87-5	1,2-Dichloropropane	1	750	U	05/31/2011 15:19
75-27-4	Bromodichloromethane	1	750	U	05/31/2011 15:19
10061-01-5	cis-1,3-Dichloropropene	1	750	U	05/31/2011 15:19
10061-02-6	trans-1,3-Dichloropropene	1	750	U	05/31/2011 15:19
79-00-5	1,1,2-Trichloroethane	1	750	U	05/31/2011 15:19
124-48-1	Dibromochloromethane	1	750	U	05/31/2011 15:19
75-25-2	Bromoform	1	750	U	05/31/2011 15:19
108-10-1	4-Methyl-2-pentanone (MIBK)	1	750	U	05/31/2011 15:19
108-88-3	Toluene	1	4400		05/31/2011 15:19
127-18-4	Tetrachloroethene	1	750	U	05/31/2011 15:19
591-78-6	2-Hexanone	1	750	U	05/31/2011 15:19
106-93-4	1,2-Dibromoethane (EDB)	1	750	U	05/31/2011 15:19
108-90-7	Chlorobenzene	1	4400		05/31/2011 15:19
100-41-4	Ethylbenzene	1	750	U	05/31/2011 15:19
XYLMP	m/p-Xylene	1	750	U	05/31/2011 15:19
95-47-6	o-Xylene	1	750	U	05/31/2011 15:19
XYLENES	Xylenes (Total)	1	750	U	05/31/2011 15:19
100-42-5	Styrene	1	750	U	05/31/2011 15:19
98-82-8	Isopropylbenzene (Cumene)	1	750	U	05/31/2011 15:19
79-34-5	1,1,2,2-Tetrachloroethane	1	750	U	05/31/2011 15:19
541-73-1	1,3-Dichlorobenzene	1	750	U	05/31/2011 15:19
106-46-7	1,4-Dichlorobenzene	1	750	U	05/31/2011 15:19
95-50-1	1,2-Dichlorobenzene	1	750	U	05/31/2011 15:19
96-12-8	1,2-Dibromo-3-chloropropane	1	750	U	05/31/2011 15:19
120-82-1	1,2,4-Trichlorobenzene	1	750	U	05/31/2011 15:19

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-SB01 S

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-003
Method: EPA 8260B
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	780	U	05/31/2011 15:48
74-87-3	Chloromethane	1	780	U	05/31/2011 15:48
75-01-4	Vinyl Chloride	1	780	U	05/31/2011 15:48
74-83-9	Bromomethane	1	780	U	05/31/2011 15:48
75-00-3	Chloroethane	1	780	U	05/31/2011 15:48
75-69-4	Trichlorofluoromethane	1	780	U	05/31/2011 15:48
75-35-4	1,1-Dichloroethene	1	780	U	05/31/2011 15:48
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	780	U	05/31/2011 15:48
67-64-1	Acetone	1	780	U	05/31/2011 15:48
75-15-0	Carbon Disulfide	1	780	U	05/31/2011 15:48
79-20-9	Methyl Acetate	1	780	U	05/31/2011 15:48
75-09-2	Methylene Chloride	1	23	J	05/31/2011 15:48
156-60-5	trans-1,2-Dichloroethene	1	780	U	05/31/2011 15:48
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	780	U	05/31/2011 15:48
75-34-3	1,1-Dichloroethane	1	780	U	05/31/2011 15:48
156-59-2	cis-1,2-Dichloroethene	1	780	U	05/31/2011 15:48
78-93-3	2-Butanone (MEK)	1	780	U	05/31/2011 15:48
67-66-3	Chloroform	1	780	U	05/31/2011 15:48
107-06-2	1,2-Dichloroethane (EDC)	1	780	U	05/31/2011 15:48
71-55-6	1,1,1-Trichloroethane	1	780	U	05/31/2011 15:48
110-82-7	Cyclohexane	1	780	U	05/31/2011 15:48
56-23-5	Carbon Tetrachloride	1	780	U	05/31/2011 15:48
71-43-2	Benzene	1	780	U	05/31/2011 15:48
79-01-6	Trichloroethene	1	780	U	05/31/2011 15:48
108-87-2	Methylcyclohexane	1	36	J	05/31/2011 15:48
78-87-5	1,2-Dichloropropane	1	780	U	05/31/2011 15:48
75-27-4	Bromodichloromethane	1	780	U	05/31/2011 15:48
10061-01-5	cis-1,3-Dichloropropene	1	780	U	05/31/2011 15:48
10061-02-6	trans-1,3-Dichloropropene	1	780	U	05/31/2011 15:48
79-00-5	1,1,2-Trichloroethane	1	780	U	05/31/2011 15:48
124-48-1	Dibromochloromethane	1	780	U	05/31/2011 15:48
75-25-2	Bromoform	1	780	U	05/31/2011 15:48
108-10-1	4-Methyl-2-pentanone (MIBK)	1	780	U	05/31/2011 15:48
108-88-3	Toluene	1	780	U	05/31/2011 15:48
127-18-4	Tetrachloroethene	1	780	U	05/31/2011 15:48
591-78-6	2-Hexanone	1	780	U	05/31/2011 15:48
106-93-4	1,2-Dibromoethane (EDB)	1	780	U	05/31/2011 15:48
108-90-7	Chlorobenzene	1	780	U	05/31/2011 15:48
100-41-4	Ethylbenzene	1	780	U	05/31/2011 15:48
XYLMP	m/p-Xylene	1	780	U	05/31/2011 15:48
95-47-6	o-Xylene	1	780	U	05/31/2011 15:48
XYLENES	Xylenes (Total)	1	780	U	05/31/2011 15:48
100-42-5	Styrene	1	780	U	05/31/2011 15:48
98-82-8	Isopropylbenzene (Cumene)	1	780	U	05/31/2011 15:48
79-34-5	1,1,2,2-Tetrachloroethane	1	780	U	05/31/2011 15:48
541-73-1	1,3-Dichlorobenzene	1	780	U	05/31/2011 15:48
106-46-7	1,4-Dichlorobenzene	1	780	U	05/31/2011 15:48
95-50-1	1,2-Dichlorobenzene	1	780	U	05/31/2011 15:48
96-12-8	1,2-Dibromo-3-chloropropane	1	780	U	05/31/2011 15:48
120-82-1	1,2,4-Trichlorobenzene	1	780	U	05/31/2011 15:48

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-SB05 S

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-004
Method: EPA 8260B
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	760	U	05/31/2011 16:17
74-87-3	Chloromethane	1	760	U	05/31/2011 16:17
75-01-4	Vinyl Chloride	1	760	U	05/31/2011 16:17
74-83-9	Bromomethane	1	760	U	05/31/2011 16:17
75-00-3	Chloroethane	1	760	U	05/31/2011 16:17
75-69-4	Trichlorofluoromethane	1	760	U	05/31/2011 16:17
75-35-4	1,1-Dichloroethene	1	760	U	05/31/2011 16:17
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	760	U	05/31/2011 16:17
67-64-1	Acetone	1	760	U	05/31/2011 16:17
75-15-0	Carbon Disulfide	1	760	U	05/31/2011 16:17
79-20-9	Methyl Acetate	1	760	U	05/31/2011 16:17
75-09-2	Methylene Chloride	1	21	J	05/31/2011 16:17
156-60-5	trans-1,2-Dichloroethene	1	760	U	05/31/2011 16:17
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	760	U	05/31/2011 16:17
75-34-3	1,1-Dichloroethane	1	760	U	05/31/2011 16:17
156-59-2	cis-1,2-Dichloroethene	1	760	U	05/31/2011 16:17
78-93-3	2-Butanone (MEK)	1	760	U	05/31/2011 16:17
67-66-3	Chloroform	1	760	U	05/31/2011 16:17
107-06-2	1,2-Dichloroethane (EDC)	1	760	U	05/31/2011 16:17
71-55-6	1,1,1-Trichloroethane	1	760	U	05/31/2011 16:17
110-82-7	Cyclohexane	1	16	J	05/31/2011 16:17
56-23-5	Carbon Tetrachloride	1	760	U	05/31/2011 16:17
71-43-2	Benzene	1	760	U	05/31/2011 16:17
79-01-6	Trichloroethene	1	760	U	05/31/2011 16:17
108-87-2	Methylcyclohexane	1	50	J	05/31/2011 16:17
78-87-5	1,2-Dichloropropane	1	760	U	05/31/2011 16:17
75-27-4	Bromodichloromethane	1	760	U	05/31/2011 16:17
10061-01-5	cis-1,3-Dichloropropene	1	760	U	05/31/2011 16:17
10061-02-6	trans-1,3-Dichloropropene	1	760	U	05/31/2011 16:17
79-00-5	1,1,2-Trichloroethane	1	760	U	05/31/2011 16:17
124-48-1	Dibromochloromethane	1	760	U	05/31/2011 16:17
75-25-2	Bromoform	1	760	U	05/31/2011 16:17
108-10-1	4-Methyl-2-pentanone (MIBK)	1	760	U	05/31/2011 16:17
108-88-3	Toluene	1	760	U	05/31/2011 16:17
127-18-4	Tetrachloroethene	1	760	U	05/31/2011 16:17
591-78-6	2-Hexanone	1	760	U	05/31/2011 16:17
106-93-4	1,2-Dibromoethane (EDB)	1	760	U	05/31/2011 16:17
108-90-7	Chlorobenzene	1	760	U	05/31/2011 16:17
100-41-4	Ethylbenzene	1	760	U	05/31/2011 16:17
XYLMP	m/p-Xylene	1	760	U	05/31/2011 16:17
95-47-6	o-Xylene	1	760	U	05/31/2011 16:17
XYLENES	Xylenes (Total)	1	760	U	05/31/2011 16:17
100-42-5	Styrene	1	760	U	05/31/2011 16:17
98-82-8	Isopropylbenzene (Cumene)	1	760	U	05/31/2011 16:17
79-34-5	1,1,2,2-Tetrachloroethane	1	760	U	05/31/2011 16:17
541-73-1	1,3-Dichlorobenzene	1	760	U	05/31/2011 16:17
106-46-7	1,4-Dichlorobenzene	1	760	U	05/31/2011 16:17
95-50-1	1,2-Dichlorobenzene	1	760	U	05/31/2011 16:17
96-12-8	1,2-Dibromo-3-chloropropane	1	760	U	05/31/2011 16:17
120-82-1	1,2,4-Trichlorobenzene	1	760	U	05/31/2011 16:17

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-MW06 D

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-005
Method: EPA 8260B
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	820	U	05/31/2011 16:46
74-87-3	Chloromethane	1	820	U	05/31/2011 16:46
75-01-4	Vinyl Chloride	1	820	U	05/31/2011 16:46
74-83-9	Bromomethane	1	820	U	05/31/2011 16:46
75-00-3	Chloroethane	1	820	U	05/31/2011 16:46
75-69-4	Trichlorofluoromethane	1	820	U	05/31/2011 16:46
75-35-4	1,1-Dichloroethene	1	820	U	05/31/2011 16:46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	820	U	05/31/2011 16:46
67-64-1	Acetone	1	820	U	05/31/2011 16:46
75-15-0	Carbon Disulfide	1	820	U	05/31/2011 16:46
79-20-9	Methyl Acetate	1	820	U	05/31/2011 16:46
75-09-2	Methylene Chloride	1	820	U	05/31/2011 16:46
156-60-5	trans-1,2-Dichloroethene	1	820	U	05/31/2011 16:46
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	820	U	05/31/2011 16:46
75-34-3	1,1-Dichloroethane	1	820	U	05/31/2011 16:46
156-59-2	cis-1,2-Dichloroethene	1	820	U	05/31/2011 16:46
78-93-3	2-Butanone (MEK)	1	820	U	05/31/2011 16:46
67-66-3	Chloroform	1	820	U	05/31/2011 16:46
107-06-2	1,2-Dichloroethane (EDC)	1	820	U	05/31/2011 16:46
71-55-6	1,1,1-Trichloroethane	1	820	U	05/31/2011 16:46
110-82-7	Cyclohexane	1	820	U	05/31/2011 16:46
56-23-5	Carbon Tetrachloride	1	820	U	05/31/2011 16:46
71-43-2	Benzene	1	820	U	05/31/2011 16:46
79-01-6	Trichloroethene	1	820	U	05/31/2011 16:46
108-87-2	Methylcyclohexane	1	820	U	05/31/2011 16:46
78-87-5	1,2-Dichloropropane	1	820	U	05/31/2011 16:46
75-27-4	Bromodichloromethane	1	820	U	05/31/2011 16:46
10061-01-5	cis-1,3-Dichloropropene	1	820	U	05/31/2011 16:46
10061-02-6	trans-1,3-Dichloropropene	1	820	U	05/31/2011 16:46
79-00-5	1,1,2-Trichloroethane	1	820	U	05/31/2011 16:46
124-48-1	Dibromochloromethane	1	820	U	05/31/2011 16:46
75-25-2	Bromoform	1	820	U	05/31/2011 16:46
108-10-1	4-Methyl-2-pentanone (MIBK)	1	820	U	05/31/2011 16:46
108-88-3	Toluene	1	820	U	05/31/2011 16:46
127-18-4	Tetrachloroethene	1	820	U	05/31/2011 16:46
591-78-6	2-Hexanone	1	820	U	05/31/2011 16:46
106-93-4	1,2-Dibromoethane (EDB)	1	820	U	05/31/2011 16:46
108-90-7	Chlorobenzene	1	820	U	05/31/2011 16:46
100-41-4	Ethylbenzene	1	820	U	05/31/2011 16:46
XYLMP	m/p-Xylene	1	820	U	05/31/2011 16:46
95-47-6	o-Xylene	1	820	U	05/31/2011 16:46
XYLENES	Xylenes (Total)	1	820	U	05/31/2011 16:46
100-42-5	Styrene	1	820	U	05/31/2011 16:46
98-82-8	Isopropylbenzene (Cumene)	1	820	U	05/31/2011 16:46
79-34-5	1,1,2,2-Tetrachloroethane	1	820	U	05/31/2011 16:46
541-73-1	1,3-Dichlorobenzene	1	820	U	05/31/2011 16:46
106-46-7	1,4-Dichlorobenzene	1	820	U	05/31/2011 16:46
95-50-1	1,2-Dichlorobenzene	1	820	U	05/31/2011 16:46
96-12-8	1,2-Dibromo-3-chloropropane	1	820	U	05/31/2011 16:46
120-82-1	1,2,4-Trichlorobenzene	1	820	U	05/31/2011 16:46

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-SB04 D

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-006
Method: EPA 8260B
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	760	U	05/31/2011 17:15
74-87-3	Chloromethane	1	760	U	05/31/2011 17:15
75-01-4	Vinyl Chloride	1	760	U	05/31/2011 17:15
74-83-9	Bromomethane	1	760	U	05/31/2011 17:15
75-00-3	Chloroethane	1	760	U	05/31/2011 17:15
75-69-4	Trichlorofluoromethane	1	760	U	05/31/2011 17:15
75-35-4	1,1-Dichloroethene	1	760	U	05/31/2011 17:15
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	760	U	05/31/2011 17:15
67-64-1	Acetone	1	760	U	05/31/2011 17:15
75-15-0	Carbon Disulfide	1	760	U	05/31/2011 17:15
79-20-9	Methyl Acetate	1	760	U	05/31/2011 17:15
75-09-2	Methylene Chloride	1	23	J	05/31/2011 17:15
156-60-5	trans-1,2-Dichloroethene	1	760	U	05/31/2011 17:15
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	760	U	05/31/2011 17:15
75-34-3	1,1-Dichloroethane	1	760	U	05/31/2011 17:15
156-59-2	cis-1,2-Dichloroethene	1	760	U	05/31/2011 17:15
78-93-3	2-Butanone (MEK)	1	760	U	05/31/2011 17:15
67-66-3	Chloroform	1	760	U	05/31/2011 17:15
107-06-2	1,2-Dichloroethane (EDC)	1	760	U	05/31/2011 17:15
71-55-6	1,1,1-Trichloroethane	1	760	U	05/31/2011 17:15
110-82-7	Cyclohexane	1	760	U	05/31/2011 17:15
56-23-5	Carbon Tetrachloride	1	760	U	05/31/2011 17:15
71-43-2	Benzene	1	760	U	05/31/2011 17:15
79-01-6	Trichloroethene	1	760	U	05/31/2011 17:15
108-87-2	Methylcyclohexane	1	760	U	05/31/2011 17:15
78-87-5	1,2-Dichloropropane	1	760	U	05/31/2011 17:15
75-27-4	Bromodichloromethane	1	760	U	05/31/2011 17:15
10061-01-5	cis-1,3-Dichloropropene	1	760	U	05/31/2011 17:15
10061-02-6	trans-1,3-Dichloropropene	1	760	U	05/31/2011 17:15
79-00-5	1,1,2-Trichloroethane	1	760	U	05/31/2011 17:15
124-48-1	Dibromochloromethane	1	760	U	05/31/2011 17:15
75-25-2	Bromoform	1	760	U	05/31/2011 17:15
108-10-1	4-Methyl-2-pentanone (MIBK)	1	760	U	05/31/2011 17:15
108-88-3	Toluene	1	760	U	05/31/2011 17:15
127-18-4	Tetrachloroethene	1	760	U	05/31/2011 17:15
591-78-6	2-Hexanone	1	760	U	05/31/2011 17:15
106-93-4	1,2-Dibromoethane (EDB)	1	760	U	05/31/2011 17:15
108-90-7	Chlorobenzene	1	760	U	05/31/2011 17:15
100-41-4	Ethylbenzene	1	760	U	05/31/2011 17:15
XYLMP	m/p-Xylene	1	760	U	05/31/2011 17:15
95-47-6	o-Xylene	1	760	U	05/31/2011 17:15
XYLENES	Xylenes (Total)	1	760	U	05/31/2011 17:15
100-42-5	Styrene	1	760	U	05/31/2011 17:15
98-82-8	Isopropylbenzene (Cumene)	1	760	U	05/31/2011 17:15
79-34-5	1,1,2,2-Tetrachloroethane	1	760	U	05/31/2011 17:15
541-73-1	1,3-Dichlorobenzene	1	760	U	05/31/2011 17:15
106-46-7	1,4-Dichlorobenzene	1	760	U	05/31/2011 17:15
95-50-1	1,2-Dichlorobenzene	1	760	U	05/31/2011 17:15
96-12-8	1,2-Dibromo-3-chloropropane	1	760	U	05/31/2011 17:15
120-82-1	1,2,4-Trichlorobenzene	1	760	U	05/31/2011 17:15

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Method Blank

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1105054
Matrix: Soil
Lab Sample ID: Method Blank
Method: EPA 8260B
Date/Time Received:
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	500	U	06/02/2011 12:25
74-87-3	Chloromethane	1	500	U	06/02/2011 12:25
75-01-4	Vinyl Chloride	1	500	U	06/02/2011 12:25
74-83-9	Bromomethane	1	500	U	06/02/2011 12:25
75-00-3	Chloroethane	1	500	U	06/02/2011 12:25
75-69-4	Trichlorofluoromethane	1	500	U	06/02/2011 12:25
75-35-4	1,1-Dichloroethene	1	500	U	06/02/2011 12:25
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	500	U	06/02/2011 12:25
67-64-1	Acetone	1	500	U	06/02/2011 12:25
75-15-0	Carbon Disulfide	1	500	U	06/02/2011 12:25
79-20-9	Methyl Acetate	1	500	U	06/02/2011 12:25
75-09-2	Methylene Chloride	1	500	U	06/02/2011 12:25
156-60-5	trans-1,2-Dichloroethene	1	500	U	06/02/2011 12:25
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	500	U	06/02/2011 12:25
75-34-3	1,1-Dichloroethane	1	500	U	06/02/2011 12:25
156-59-2	cis-1,2-Dichloroethene	1	500	U	06/02/2011 12:25
78-93-3	2-Butanone (MEK)	1	500	U	06/02/2011 12:25
67-66-3	Chloroform	1	500	U	06/02/2011 12:25
107-06-2	1,2-Dichloroethane (EDC)	1	500	U	06/02/2011 12:25
71-55-6	1,1,1-Trichloroethane	1	500	U	06/02/2011 12:25
110-82-7	Cyclohexane	1	500	U	06/02/2011 12:25
56-23-5	Carbon Tetrachloride	1	500	U	06/02/2011 12:25
71-43-2	Benzene	1	500	U	06/02/2011 12:25
79-01-6	Trichloroethene	1	500	U	06/02/2011 12:25
108-87-2	Methylcyclohexane	1	500	U	06/02/2011 12:25
78-87-5	1,2-Dichloropropane	1	500	U	06/02/2011 12:25
75-27-4	Bromodichloromethane	1	500	U	06/02/2011 12:25
10061-01-5	cis-1,3-Dichloropropene	1	500	U	06/02/2011 12:25
10061-02-6	trans-1,3-Dichloropropene	1	500	U	06/02/2011 12:25
79-00-5	1,1,2-Trichloroethane	1	500	U	06/02/2011 12:25
124-48-1	Dibromochloromethane	1	500	U	06/02/2011 12:25
75-25-2	Bromoform	1	500	U	06/02/2011 12:25
108-10-1	4-Methyl-2-pentanone (MIBK)	1	500	U	06/02/2011 12:25
108-88-3	Toluene	1	500	U	06/02/2011 12:25
127-18-4	Tetrachloroethene	1	500	U	06/02/2011 12:25
591-78-6	2-Hexanone	1	500	U	06/02/2011 12:25
106-93-4	1,2-Dibromoethane (EDB)	1	500	U	06/02/2011 12:25
108-90-7	Chlorobenzene	1	500	U	06/02/2011 12:25
100-41-4	Ethylbenzene	1	500	U	06/02/2011 12:25
XYLMP	m/p-Xylene	1	500	U	06/02/2011 12:25
95-47-6	o-Xylene	1	500	U	06/02/2011 12:25
XYLENES	Xylenes (Total)	1	500	U	06/02/2011 12:25
100-42-5	Styrene	1	500	U	06/02/2011 12:25
98-82-8	Isopropylbenzene (Cumene)	1	500	U	06/02/2011 12:25
79-34-5	1,1,2,2-Tetrachloroethane	1	500	U	06/02/2011 12:25
541-73-1	1,3-Dichlorobenzene	1	500	U	06/02/2011 12:25
106-46-7	1,4-Dichlorobenzene	1	500	U	06/02/2011 12:25
95-50-1	1,2-Dichlorobenzene	1	500	U	06/02/2011 12:25
96-12-8	1,2-Dibromo-3-chloropropane	1	500	U	06/02/2011 12:25
120-82-1	1,2,4-Trichlorobenzene	1	500	U	06/02/2011 12:25

SYSTEM MONITORING COMPOUND REPORT

Lab Name: DNREC Environmental Laboratory Section **Lab Order ID:** 1105054

Test Group Volatiles **QCBatchID:** VOA-1105054

Matrix Type: Soil

ELS Sample Number	QC Number	SMC1	SMC2	SMC3						Total Out
1105054-001		98	101	88						0
1105054-002		91	93	80						0
1105054-003		104	106	91						0
1105054-004		101	102	87						0
1105054-005		95	95	82						0
1105054-006		106	107	92						0
LCS-S	1	100	107	93						0
Method Blank	1	102	109	95						0
MSD-S	1	92	98	82						0
MS-S	1	91	93	80						0

		QC Limits
SMC1	1,2-Dichloroethane-d4	58-118
SMC2	Toluene-d8	50-125
SMC3	4-Bromofluorobenzene	60-121

MATRIX SPIKE / MATRIX SPIKE DUPLICATE / DUPLICATE RECOVERY

Lab Name: DNREC Environmental Laboratory Section **Lab Order ID:** 1105054

Test Group VOA **QCBatchID:** VOA-1105054

Matrix Spike - Sample No.: 1105054-002 **Matrix Type:** Solid

Matrix Spike							
Compound	Spike Added	Sample Concentration	QC Sample Concentration	Percent Recovery	RPD	QC Limits	
						RPD	REC.
1,1-Dichloroethene	3765.060	ND	4700	124			59-172
Benzene	3765.060	ND	4300	113			66-142
Chlorobenzene	3765.060	ND	4200	112			60-133
Toluene	3765.060	ND	4200	112			59-139
Trichloroethene	3765.060	ND	4300	114			62-137

Matrix Spike Duplicate							
Compound	Spike Added	Sample Concentration	QC Sample Concentration	Percent Recovery	RPD	QC Limits	
						RPD	REC.
1,1-Dichloroethene	3765.060	ND	4800	127	3	0-22	59-172
Benzene	3765.060	ND	4500	119	5	0-21	66-142
Chlorobenzene	3765.060	ND	4400	117	4	0-21	60-133
Toluene	3765.060	ND	4400	116	4	0-21	59-139
Trichloroethene	3765.060	ND	4500	120	5	0-24	62-137

*** Values outside of QC Limits**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE / DUPLICATE RECOVERY

Lab Name: DNREC Environmental Laboratory Section **Lab Order ID:** 1105054

Test Group VOA **QCBatchID:** VOA-1105054

Matrix Spike - Sample No.: LCS-S **Matrix Type:** Solid

LCS							
Compound	**Spike Added**	**Sample Concentration**	**QC Sample Concentration**	**Percent Recovery**	**RPD**	**QC Limits**	
						RPD	**REC.**
1,1-Dichloroethene	2482.129		3100	124			59-172
Benzene	2482.129		3200	128			66-142
Chlorobenzene	2482.129		3000	120			60-133
Toluene	2482.129		2900	119			59-139
Trichloroethene	2482.129		3200	130			62-137

*** Values outside of QC Limits**

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\DATA\MS50602L.jml\060202.D
Tune Time : 2 Jun 2011 11:01 am

Daily Calibration File : C:\msdchem\1\DATA\MS50602L.jml\060203.D

		(DCE)	(TOL)	(BFB)	(BCM)	(DFB)	(CBZ)
					147426	928785	844100
File	Sample	Surrogate Recovery %			Internal Standard Responses		
060205.D	Method Bla	102	109	95	117343	665893	651021
060207.D	1105054-001	98	101	88	126813	739039	703497
060208.D	LCS-S	100	107	93	126128	704529	691294
060209.D	1105054-002	97	102	87	121724	713893	676589
060210.D	MS-S	91	93	80*	127744	809067	744044
060211.D	MSD-S	92	98	82*	123965	761557	708388
060212.D	1105054-003	104	106	91	122154	733813	697685
060213.D	1105054-004	101	102	87	115424	696058	663347
060214.D	1105054-005	95	95	82*	124191	781539	721411
060215.D	1105054-006	106	107	92	114217	687857	651959
060220.D	VSTD050	99	100	99	146263	896858	816451

(fails) - fails 12hr time check * - fails criteria

Created: Fri Jun 10 10:26:43 2011 DEL5

Spike Recovery and RPD Summary Report - WATER

Method Path : C:\msdchem\2\Methods\
Method File : I50426L.M
Title : VOA Standards for 6 point calibration
Last Update : Mon May 02 11:29:50 2011
Response Via : Initial Calibration

Datafile Path: C:\msdchem\1\DATA\MS50602L.jml\

------Sample-------
File : 060205.D
Name : Method Blank Acq Time: 2 Jun 2011 12:25 pm

------Spike--------
File : 060208.D
Name : LCS-S Acq Time: 2 Jun 2011 1:52 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	62	62	124	0	59-172
Benzene	0.0	50	64	64	128	0	66-142
Trichloroethene	0.0	50	65	65	130	0	62-137
Toluene	0.0	50	59	59	119	0	59-139
Chlorobenzene	0.0	50	60	60	120	0	60-133

- Fails Limit Check

I50426L.M Fri Jun 10 10:56:12 2011

Spike Recovery and RPD Summary Report - WATER

Method Path : C:\msdchem\2\Methods\
Method File : I50426L.M
Title : VOA Standards for 6 point calibration
Last Update : Mon May 02 11:29:50 2011
Response Via : Initial Calibration

Datafile Path: C:\msdchem\1\DATA\MS50602L.jml\

------Sample-------
File : 060209.D
Name : 1105054-002 Acq Time: 2 Jun 2011 2:21 pm

------Spike--------
File : 060210.D
Name : MS-S Acq Time: 2 Jun 2011 2:50 pm

--Spike Duplicate--
File : 060211.D
Name : MSD-S Acq Time: 2 Jun 2011 3:19 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	62	64	124	127	3	14	59-172
Benzene	0.0	50	57	59	113	119	5	11	66-142
Trichloroethene	0.0	50	57	60	114	120	5	14	62-137
Toluene	0.0	50	56	58	112	116	4	13	59-139
Chlorobenzene	0.0	50	56	59	112	117	4	13	60-133

- Fails Limit Check

I50426L.M Fri Jun 10 10:59:53 2011

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060207.D
Acq On : 2 Jun 2011 1:23 pm
Operator : jml
Sample : 1105054-001
Misc : 1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 08 16:26:05 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.790	128	126813	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	739039	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	703497	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	183953	48.86 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 97.72%		
38) Toluene-d8	8.944	98	859675	50.47 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.94%		
49) 4-Bromofluorobenzene	10.982	95	275739	43.92 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 87.84%		

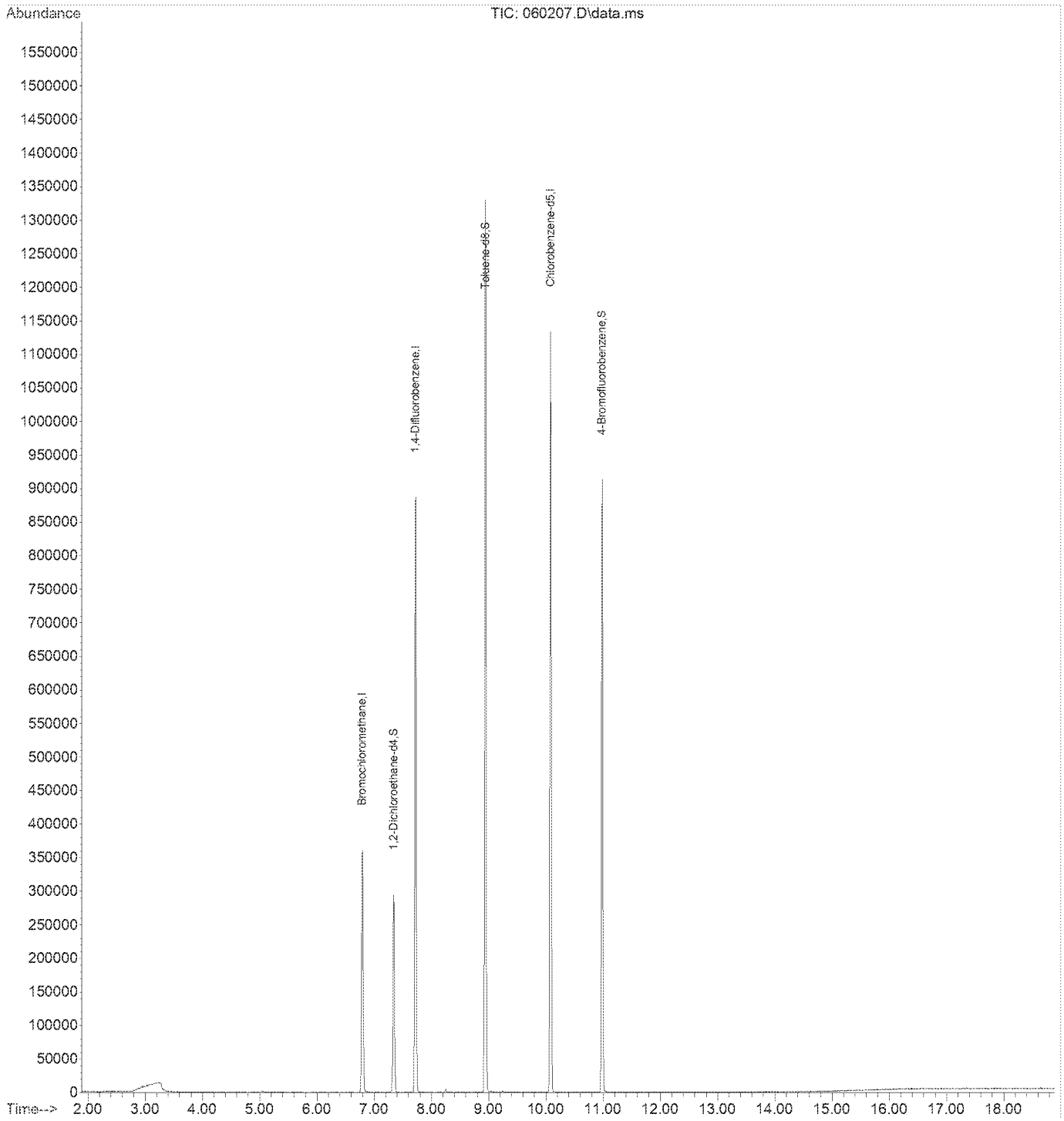
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060207.D
Acq On : 2 Jun 2011 1:23 pm
Operator : jml
Sample : 1105054-001
Misc : 1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 08 16:26:05 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060207.D
Acq On : 2 Jun 2011 1:23 pm
Operator : jml
Sample : 1105054-001
Misc : 1
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50426L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 060207.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.790	799	807	817	rBV	359998	691231	32.57%	8.655%
2	7.338	890	897	910	rBV	294377	535293	25.22%	6.703%
3	7.721	952	960	969	rBV	886317	1458317	68.72%	18.260%
4	8.944	1153	1161	1172	rBV	1328626	2122120	100.00%	26.572%
5	10.082	1340	1348	1357	rBV	1133347	1791629	84.43%	22.434%
6	10.982	1489	1496	1505	rBV	912709	1387633	65.39%	17.375%

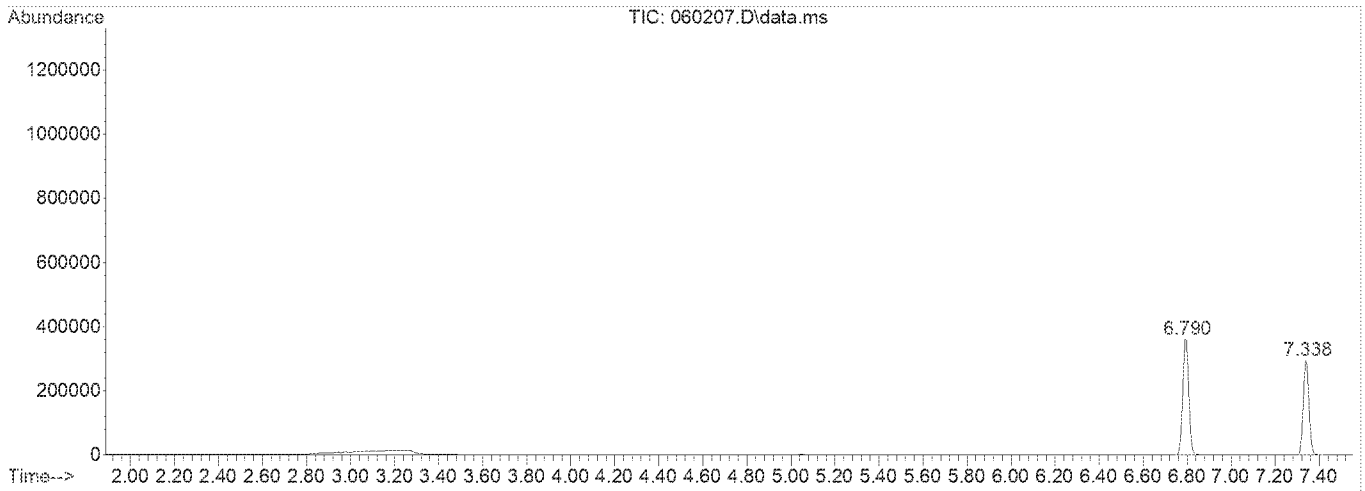
Sum of corrected areas: 7986223

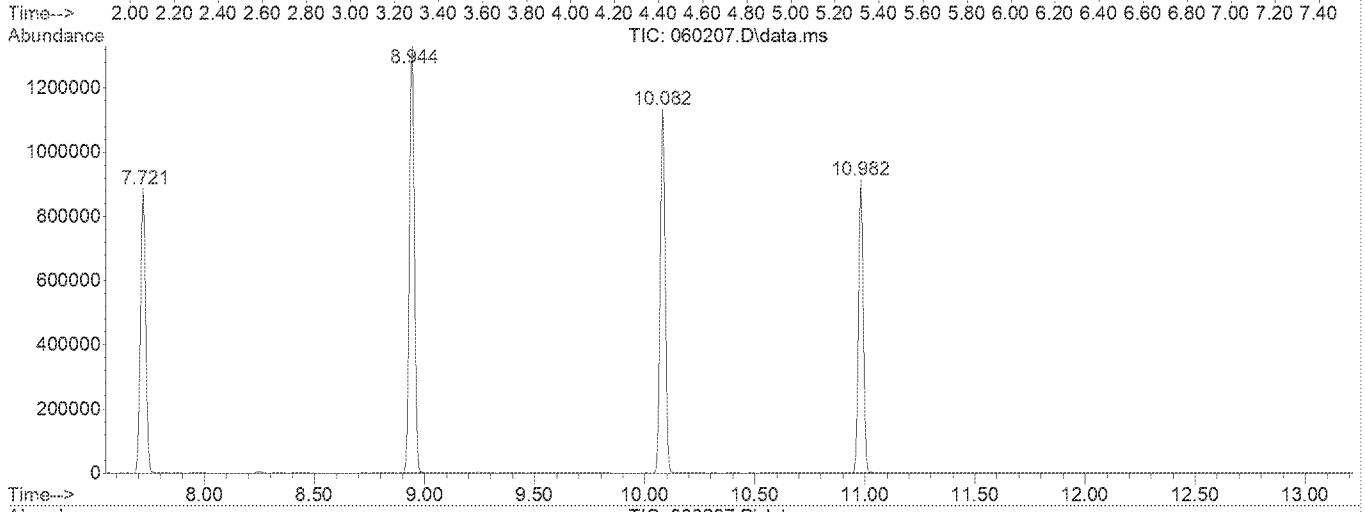
LSC Report - Integrated Chromatogram

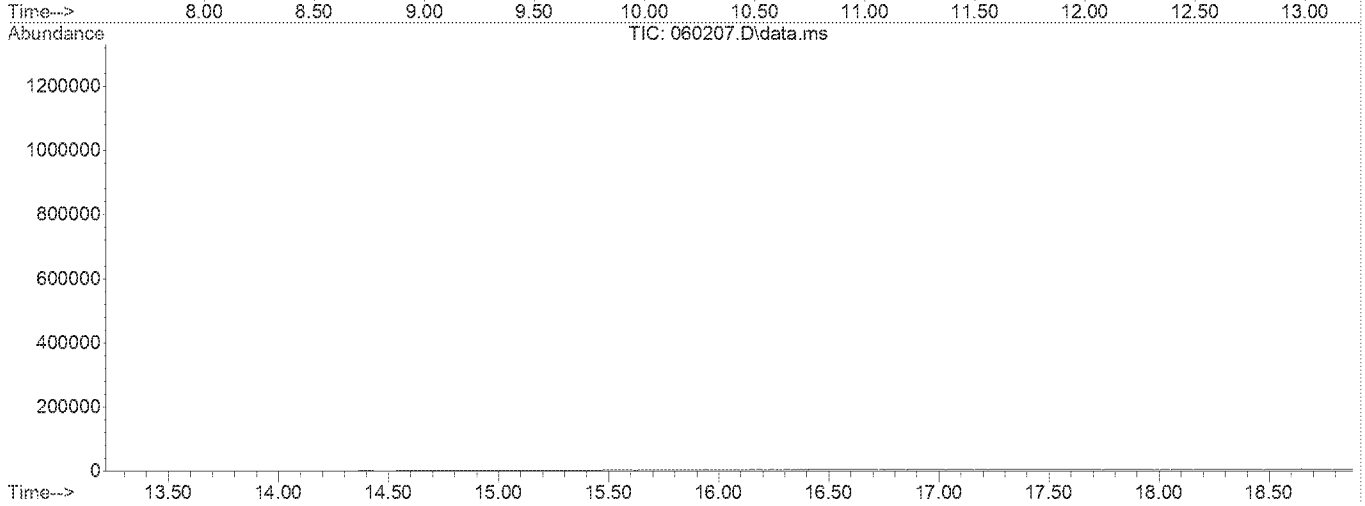
Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060207.D
Acq On : 2 Jun 2011 1:23 pm
Operator : jml
Sample : 1105054-001
Misc : 1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\MS50602L.jml\\
Data File : 060207.D
Acq On    :  2 Jun 2011   1:23 pmm
Operator  : jml1
Sample    : 1105054-0011
Misc      : 11
ALS Vial  : 13   Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50426L.MM
Quant Title  : VOA  Standards for 6 point calibrationn

TIC Library   : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060209.D
Acq On : 2 Jun 2011 2:21 pm
Operator : jml
Sample : 1105054-002
Misc : 1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 08 16:30:05 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.790	128	121724	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	713893	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	676589	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	175626	48.60 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 97.20%		
38) Toluene-d8	8.944	98	836926	51.09 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 102.18%		
49) 4-Bromofluorobenzene	10.982	95	262751	43.51 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 87.02%		

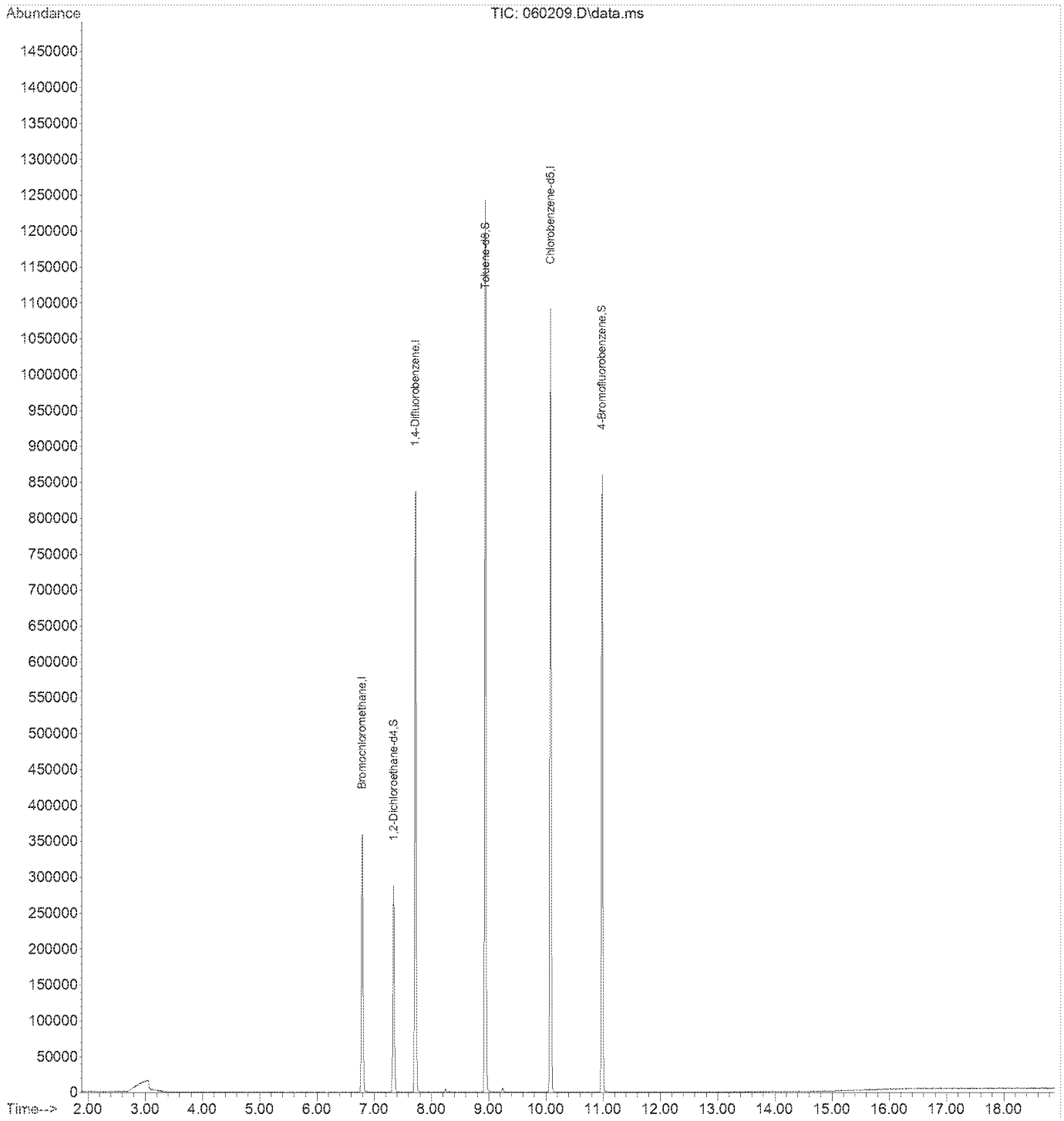
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060209.D
Acq On : 2 Jun 2011 2:21 pm
Operator : jml
Sample : 1105054-002
Misc : 1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 08 16:30:05 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060209.D
Acq On : 2 Jun 2011 2:21 pm
Operator : jml
Sample : 1105054-002
Misc : 1
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50426L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 060209.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.790	799	807	818	rBV	359321	667603	32.60%	8.663%
2	7.338	890	897	909	rVB	288251	513521	25.08%	6.664%
3	7.721	952	960	969	rBV	837278	1409599	68.84%	18.292%
4	8.944	1153	1161	1175	rBV	1242283	2047574	100.00%	26.570%
5	10.082	1340	1348	1359	rBV	1091241	1730053	84.49%	22.450%
6	10.982	1489	1496	1506	rBV	860723	1337843	65.34%	17.361%

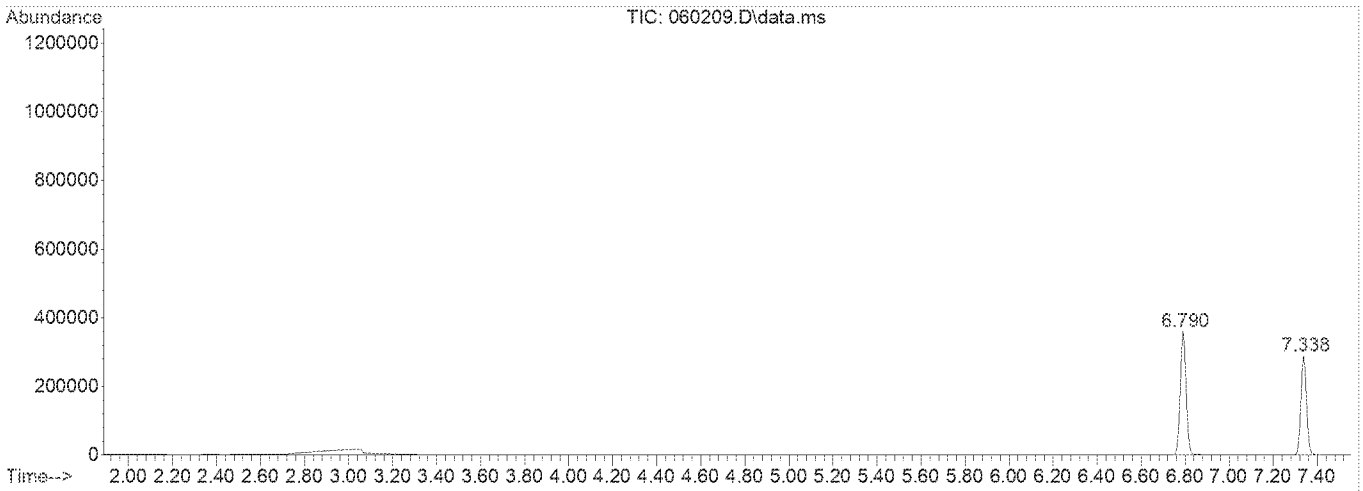
Sum of corrected areas: 7706193

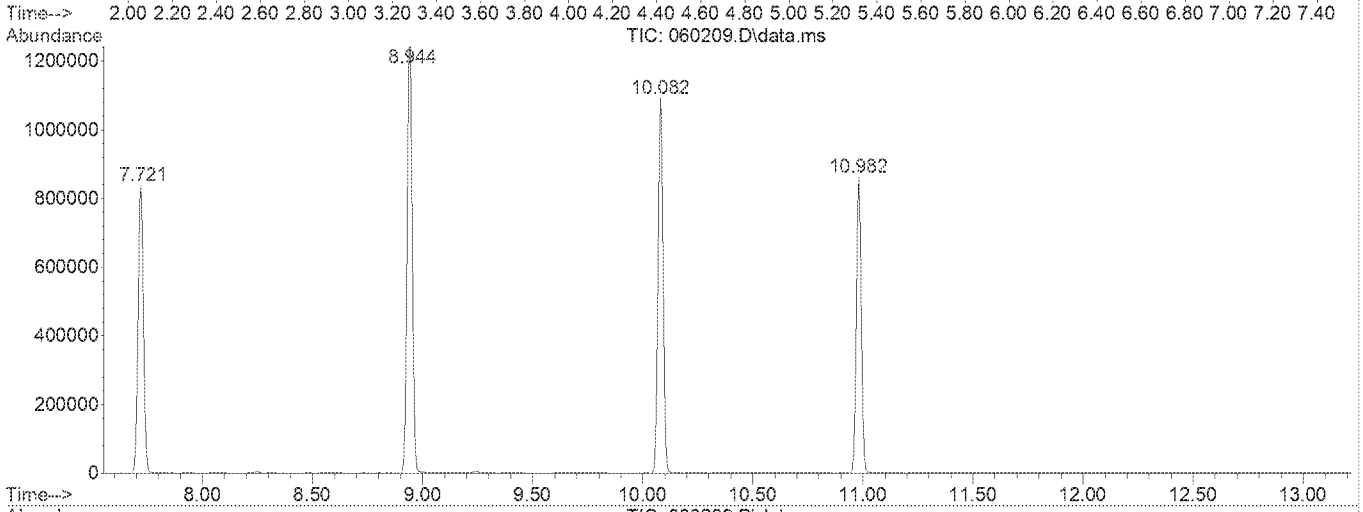
LSC Report - Integrated Chromatogram

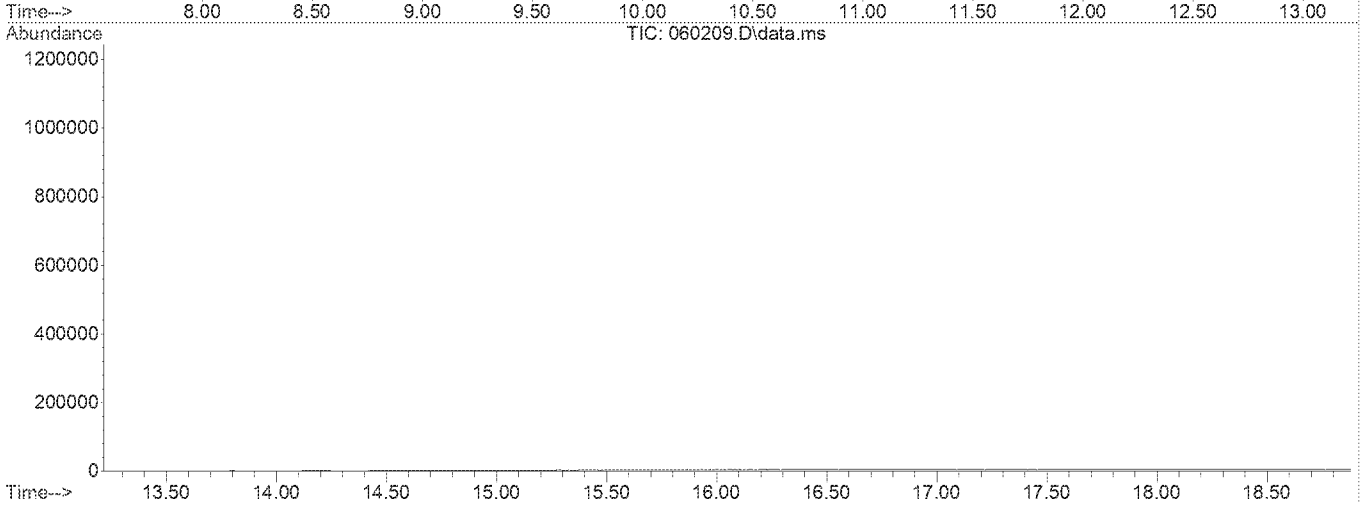
Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060209.D
Acq On : 2 Jun 2011 2:21 pm
Operator : jml
Sample : 1105054-002
Misc : 1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\MS50602L.jml\\
Data File : 060209.D
Acq On    :  2 Jun 2011   2:21 pmm
Operator  : jml1
Sample    : 1105054-0022
Misc      : 11
ALS Vial  : 15   Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50426L.MM
Quant Title  : VOA  Standards for 6 point calibrationn

TIC Library   : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060212.D
Acq On : 2 Jun 2011 3:48 pm
Operator : jml
Sample : 1105054-003
Misc : 1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 08 16:37:25 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

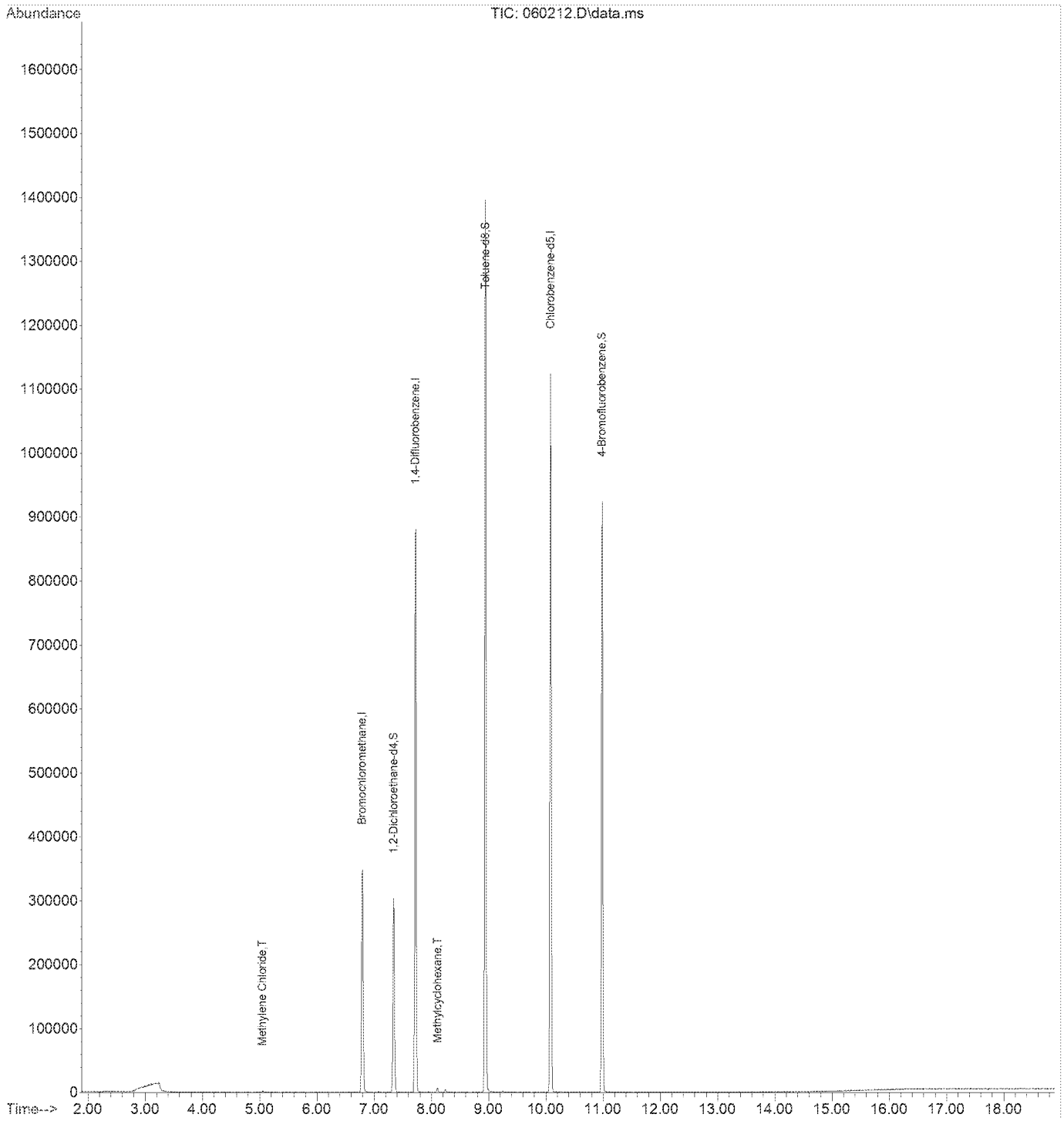
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	122154	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	733813	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	697685	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	188176	51.89 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 103.78%		
38) Toluene-d8	8.944	98	897016	53.10 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 106.20%		
49) 4-Bromofluorobenzene	10.982	95	283946	45.60 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 91.20%		
Target Compounds					Qvalue
13) Methylene Chloride	5.044	84	1181	0.30 ug/l	88
28) Methylcyclohexane	8.104	83	2984	0.46 ug/l	92

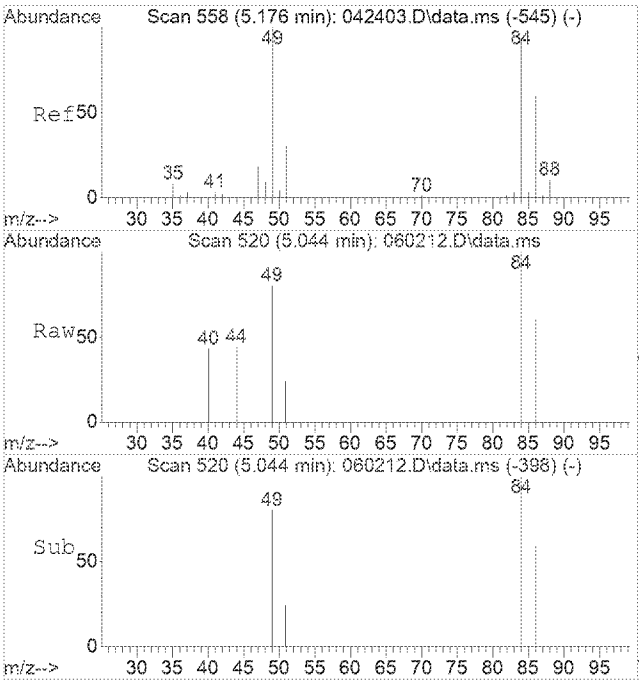
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060212.D
Acq On : 2 Jun 2011 3:48 pm
Operator : jml
Sample : 1105054-003
Misc : 1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 08 16:37:25 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

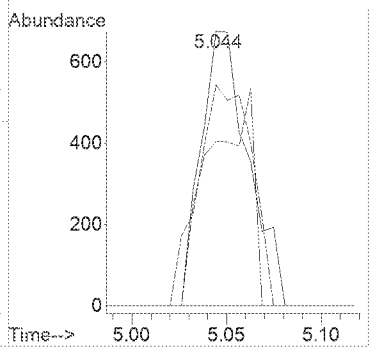


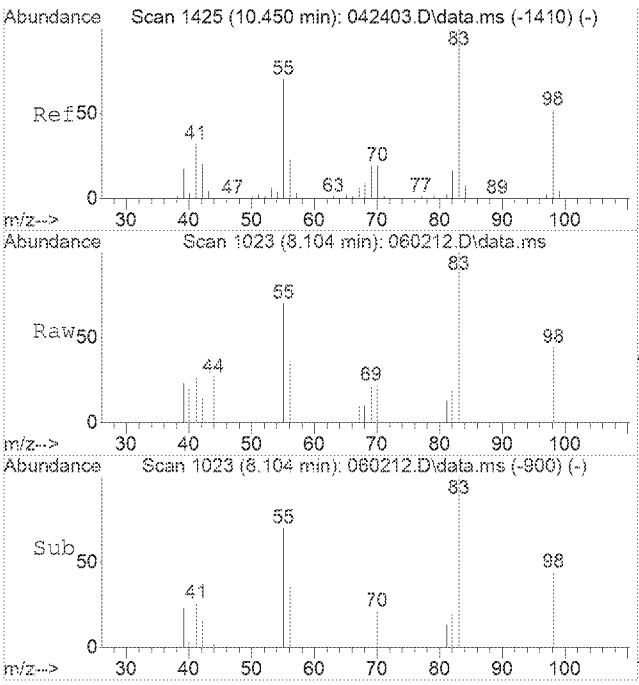


#13
Methylene Chloride
Concen: 0.30 ug/l
RT: 5.044 min Scan# 520
Delta R.T. -0.006 min
Lab File: 060212.D
Acq: 2 Jun 2011 3:48 pm

Tgt Ion: 84 Resp: 1181

Ion	Ratio	Lower	Upper
84	100		
49	80.4	76.3	116.3
86	60.0	43.5	83.5

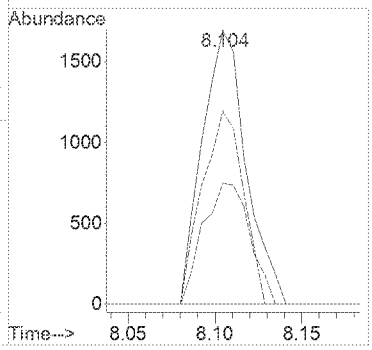




#28
Methylcyclohexane
Concen: 0.46 ug/l
RT: 8.104 min Scan# 1023
Delta R.T. -0.000 min
Lab File: 060212.D
Acq: 2 Jun 2011 3:48 pm

Tgt Ion: 83 Resp: 2984

Ion	Ratio	Lower	Upper
83	100		
55	70.5	46.1	86.1
98	44.1	32.3	72.3



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060212.D
Acq On : 2 Jun 2011 3:48 pm
Operator : jml
Sample : 1105054-003
Misc : 1
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50426L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 060212.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.238	221	223	231	rVB7	12891	22911	1.03%	0.282%
2	6.790	800	807	816	rBV	348312	670851	30.16%	8.258%
3	7.338	890	897	910	rBV	303040	550742	24.76%	6.780%
4	7.721	952	960	970	rBV	880508	1445295	64.98%	17.791%
5	8.944	1148	1161	1172	rBV	1394863	2224297	100.00%	27.381%
6	10.082	1340	1348	1359	rBV	1123792	1775416	79.82%	21.855%
7	10.982	1489	1496	1509	rBV	923685	1434034	64.47%	17.653%

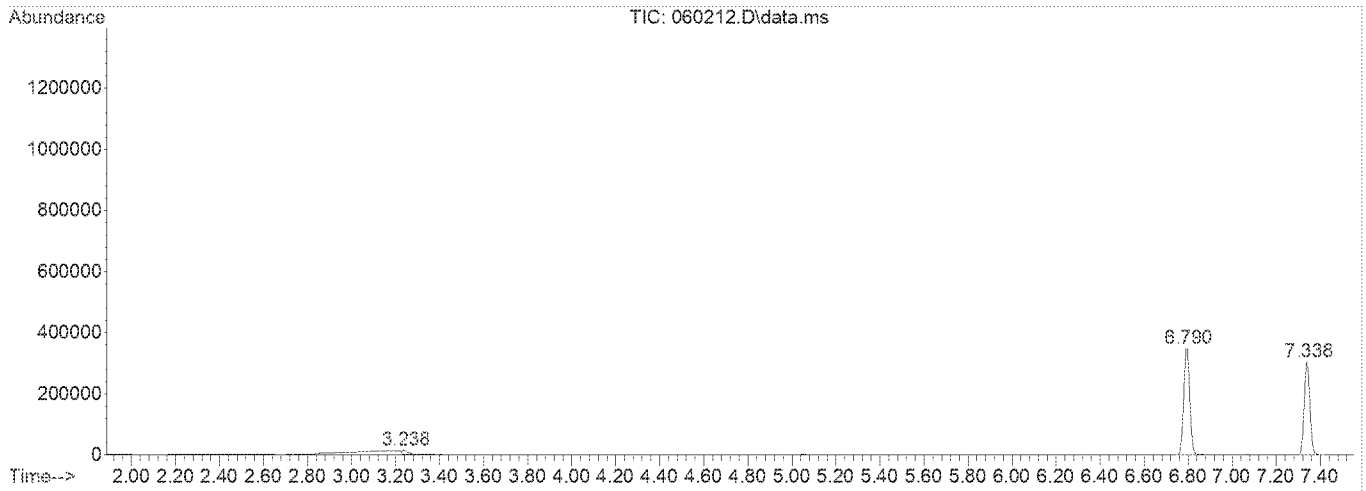
Sum of corrected areas: 8123546

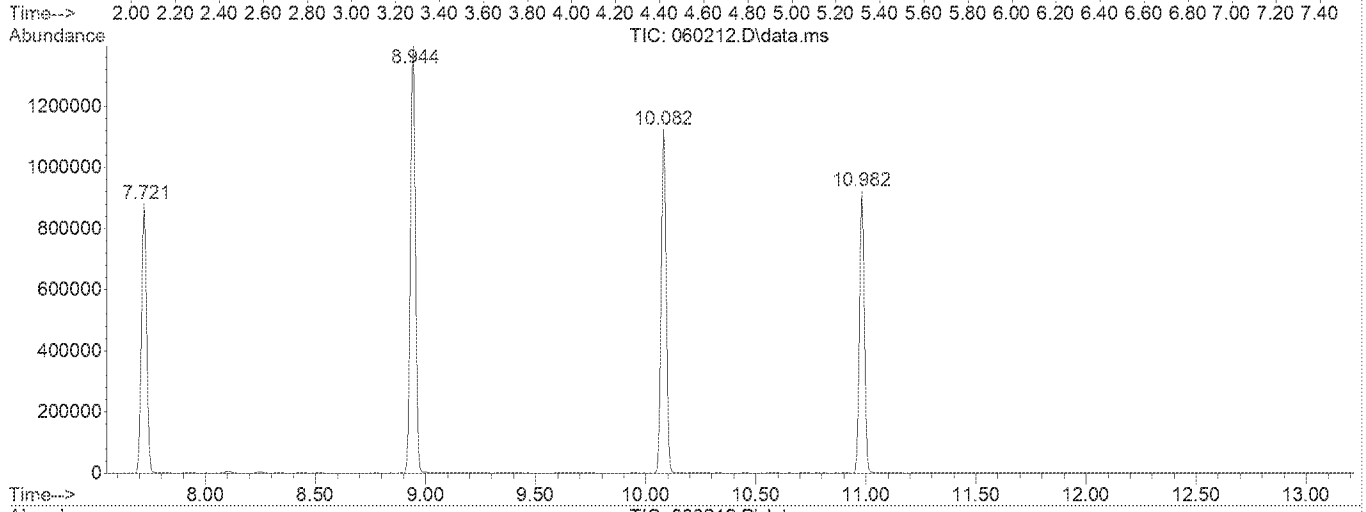
LSC Report - Integrated Chromatogram

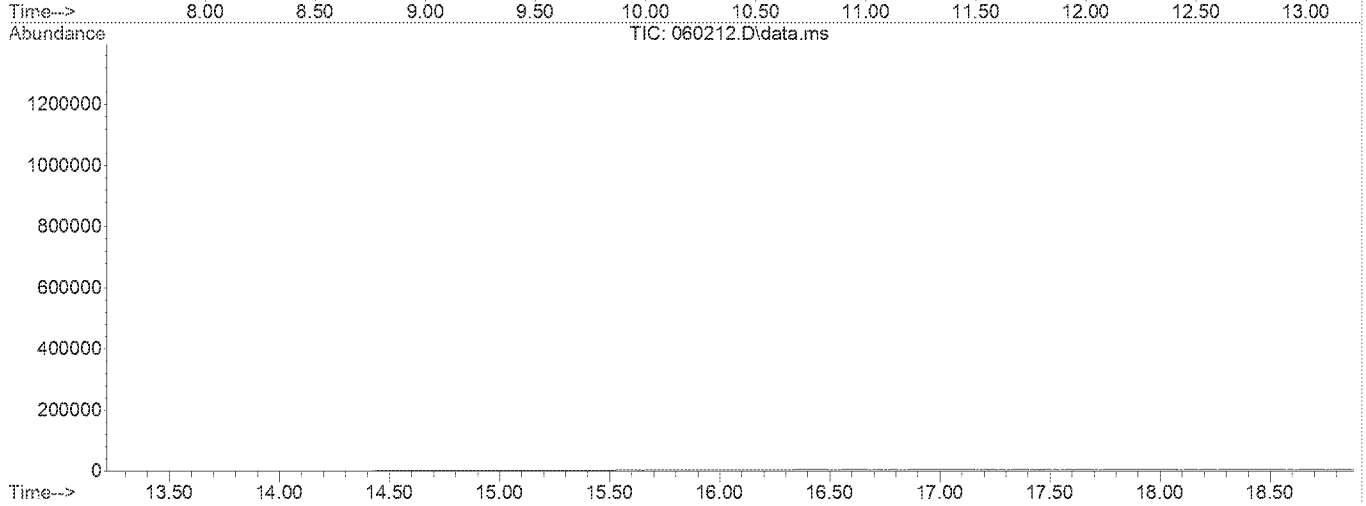
Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060212.D
Acq On : 2 Jun 2011 3:48 pm
Operator : jml
Sample : 1105054-003
Misc : 1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\MS50602L.jml\\
Data File : 060212.D
Acq On : 2 Jun 2011 3:48 pmm
Operator : jml1
Sample : 1105054-0033
Misc : 11
ALS Vial : 18 Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50426L.MM
Quant Title : VOA Standards for 6 point calibrationn

TIC Library : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060213.D
Acq On : 2 Jun 2011 4:17 pm
Operator : jml
Sample : 1105054-004
Misc : 1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 08 16:40:42 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

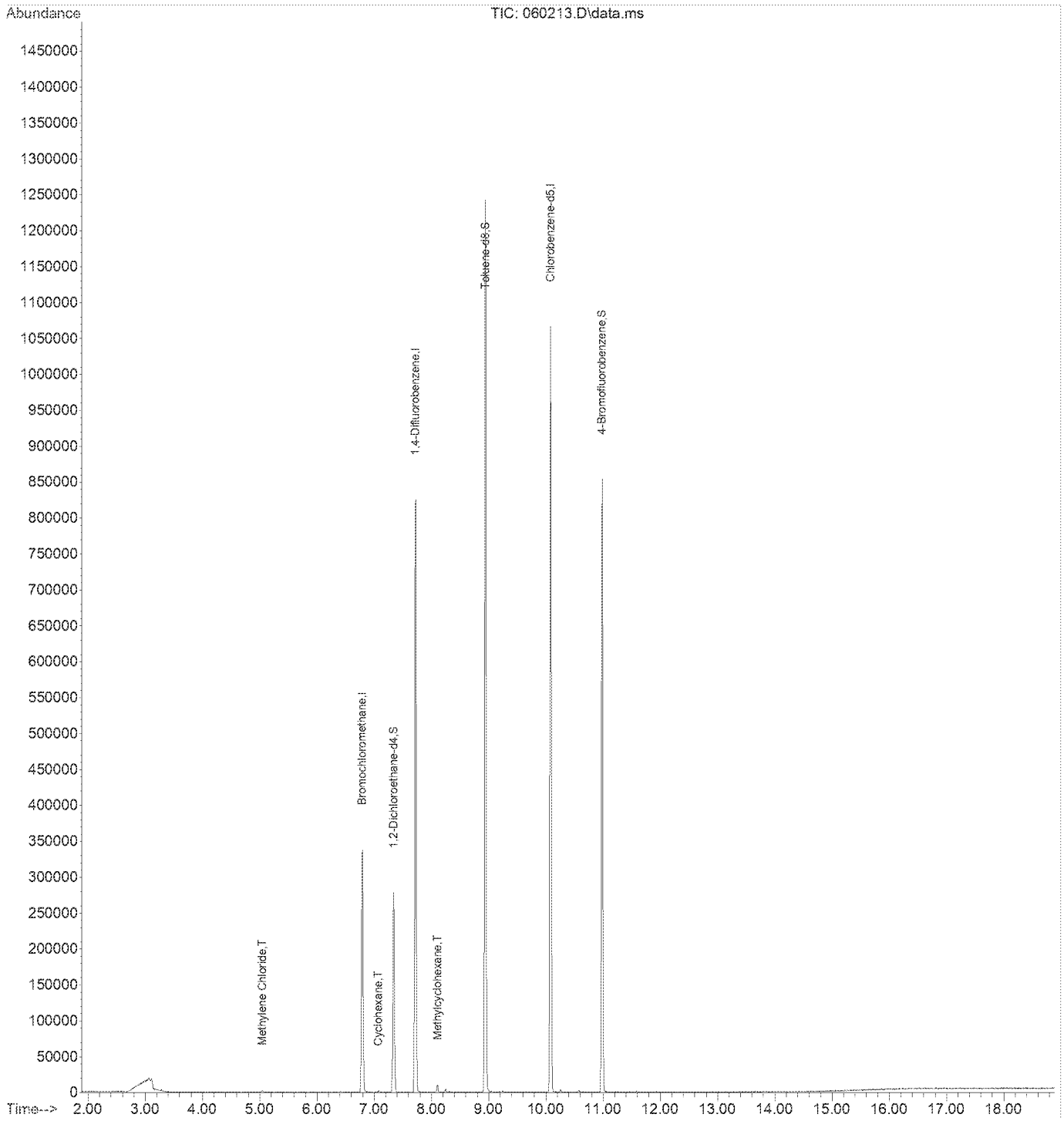
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.790	128	115424	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	696058	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	663347	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	172347	50.29 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 100.58%		
38) Toluene-d8	8.944	98	815415	50.77 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 101.54%		
49) 4-Bromofluorobenzene	10.982	95	258844	43.72 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 87.44%		
Target Compounds					Qvalue
13) Methylene Chloride	5.044	84	1013	0.27 ug/l	86
24) Cyclohexane	7.076	56	1128	0.21 ug/l	97
28) Methylcyclohexane	8.104	83	4126	0.66 ug/l	90

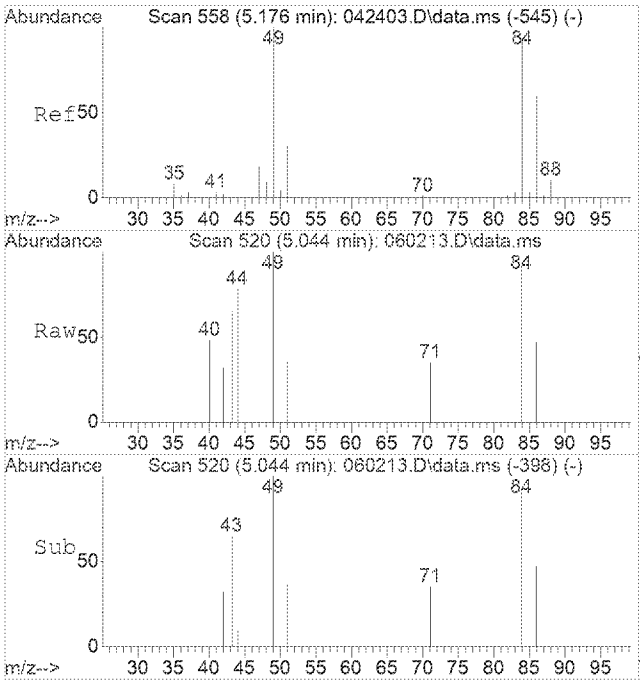
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060213.D
Acq On : 2 Jun 2011 4:17 pm
Operator : jml
Sample : 1105054-004
Misc : 1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 08 16:40:42 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

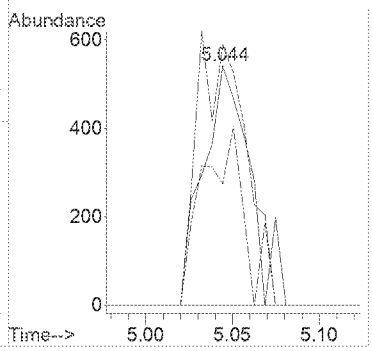


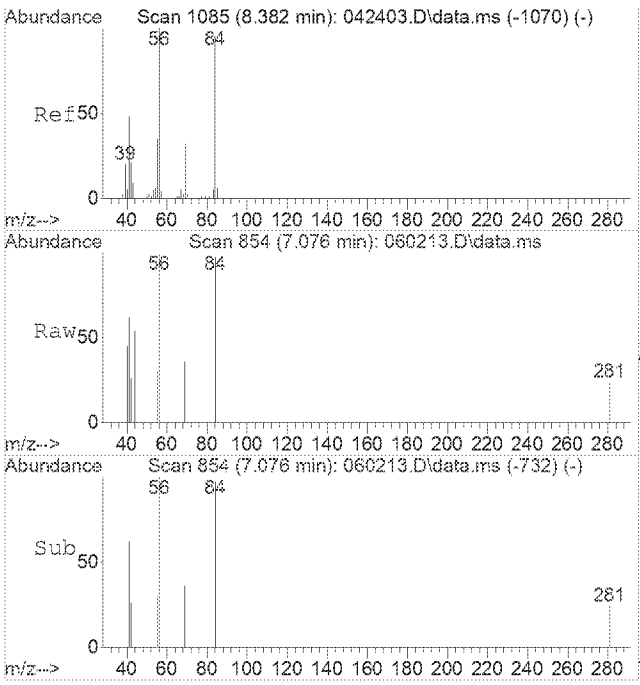


#13
Methylene Chloride
Concen: 0.27 ug/l
RT: 5.044 min Scan# 520
Delta R.T. -0.006 min
Lab File: 060213.D
Acq: 2 Jun 2011 4:17 pm

Tgt Ion: 84 Resp: 1013

Ion	Ratio	Lower	Upper
84	100		
49	108.7	76.3	116.3
86	50.7	43.5	83.5

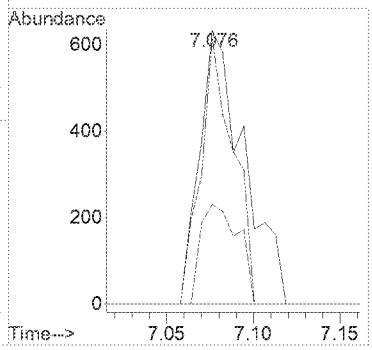


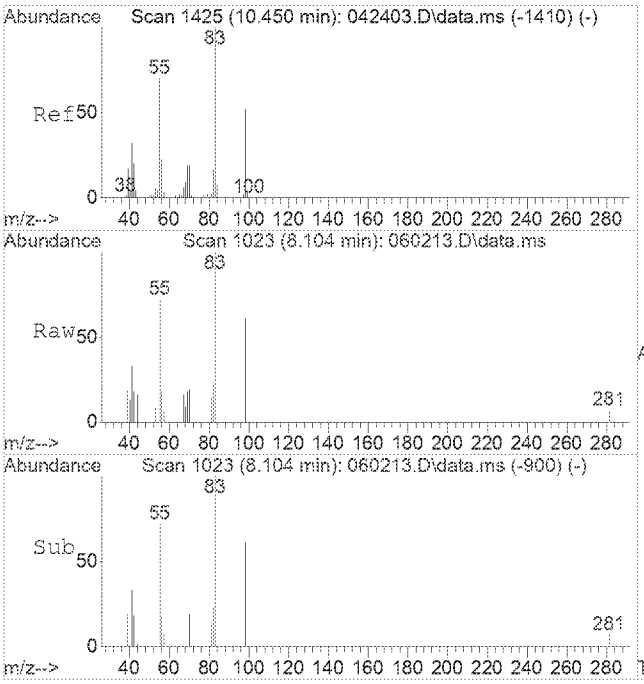


#24
Cyclohexane
Concen: 0.21 ug/l
RT: 7.076 min Scan# 854
Delta R.T. -0.006 min
Lab File: 060213.D
Acq: 2 Jun 2011 4:17 pm

Tgt Ion: 56 Resp: 1128

Ion	Ratio	Lower	Upper
56	100		
69	36.4	14.1	54.1
84	97.3	79.6	119.6

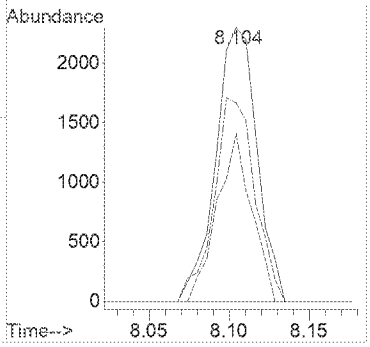




#28
Methylcyclohexane
Concen: 0.66 ug/l
RT: 8.104 min Scan# 1023
Delta R.T. -0.000 min
Lab File: 060213.D
Acq: 2 Jun 2011 4:17 pm

Tgt Ion: 83 Resp: 4126

Ion	Ratio	Lower	Upper
83	100		
55	72.4	46.1	86.1
98	61.2	32.3	72.3



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060213.D
Acq On : 2 Jun 2011 4:17 pm
Operator : jml
Sample : 1105054-004
Misc : 1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50426L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 060213.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.790	798	807	816	rBV	337436	640747	31.70%	8.512%
2	7.338	890	897	908	rBV	277738	503507	24.91%	6.689%
3	7.721	952	960	973	rBV	824544	1367966	67.67%	18.173%
4	8.944	1153	1161	1174	rVB	1241302	2021444	100.00%	26.854%
5	10.082	1339	1348	1361	rBV	1066120	1689870	83.60%	22.449%
6	10.982	1488	1496	1507	rBV	853776	1303956	64.51%	17.323%

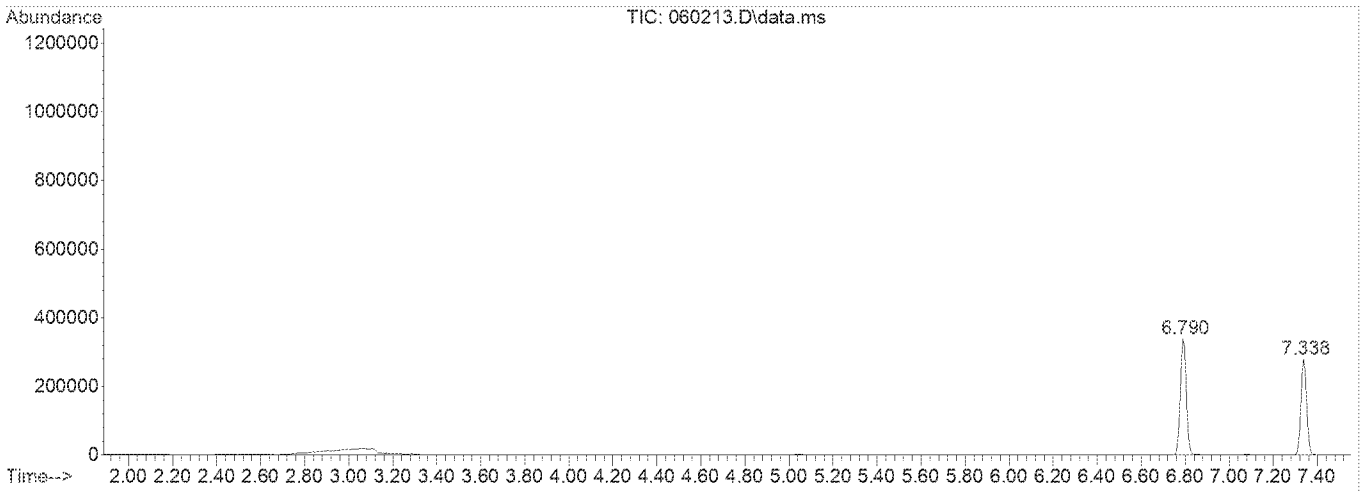
Sum of corrected areas: 7527490

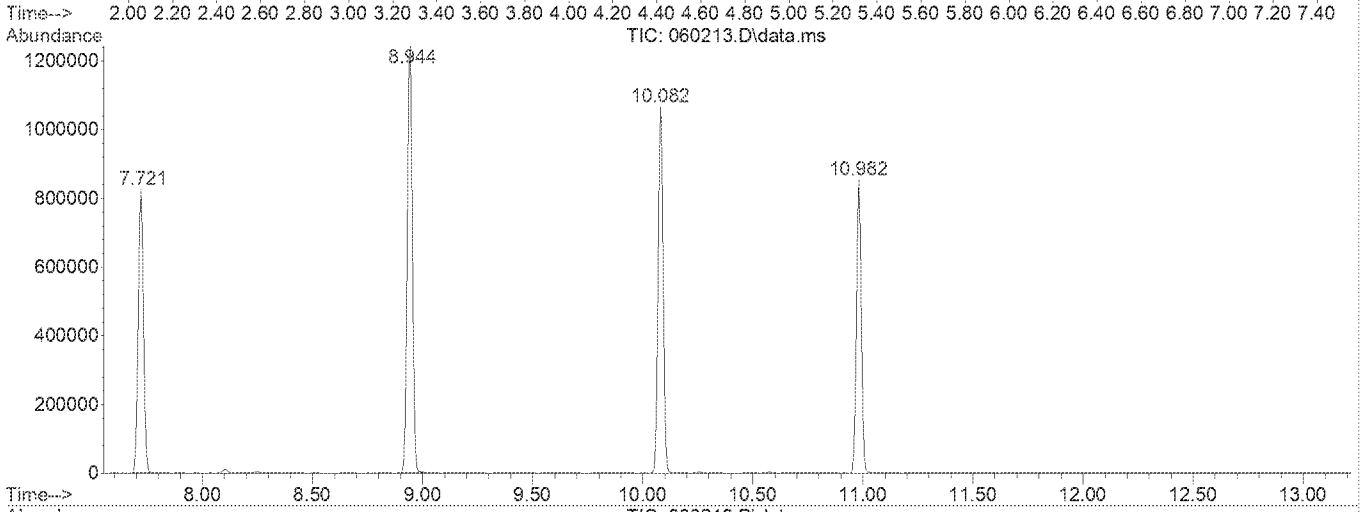
LSC Report - Integrated Chromatogram

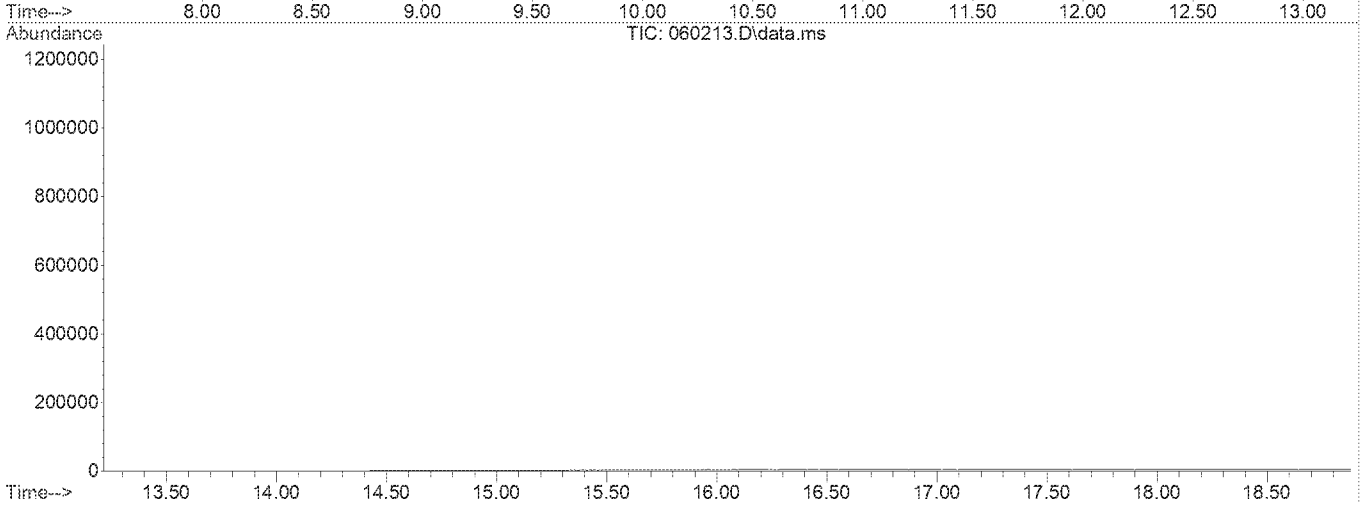
Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060213.D
Acq On : 2 Jun 2011 4:17 pm
Operator : jml
Sample : 1105054-004
Misc : 1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\MS50602L.jml\\
Data File : 060213.D
Acq On : 2 Jun 2011 4:17 pmm
Operator : jml1
Sample : 1105054-0044
Misc : 11
ALS Vial : 19 Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50426L.MM
Quant Title : VOA Standards for 6 point calibrationn

TIC Library : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060214.D
Acq On : 2 Jun 2011 4:46 pm
Operator : jml
Sample : 1105054-005
Misc : 1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 08 16:45:36 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.790	128	124191	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	781539	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	721411	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	174873	47.43 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 94.86%		
38) Toluene-d8	8.938	98	830388	47.54 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 95.08%		
49) 4-Bromofluorobenzene	10.982	95	263537	40.93 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 81.86%#		

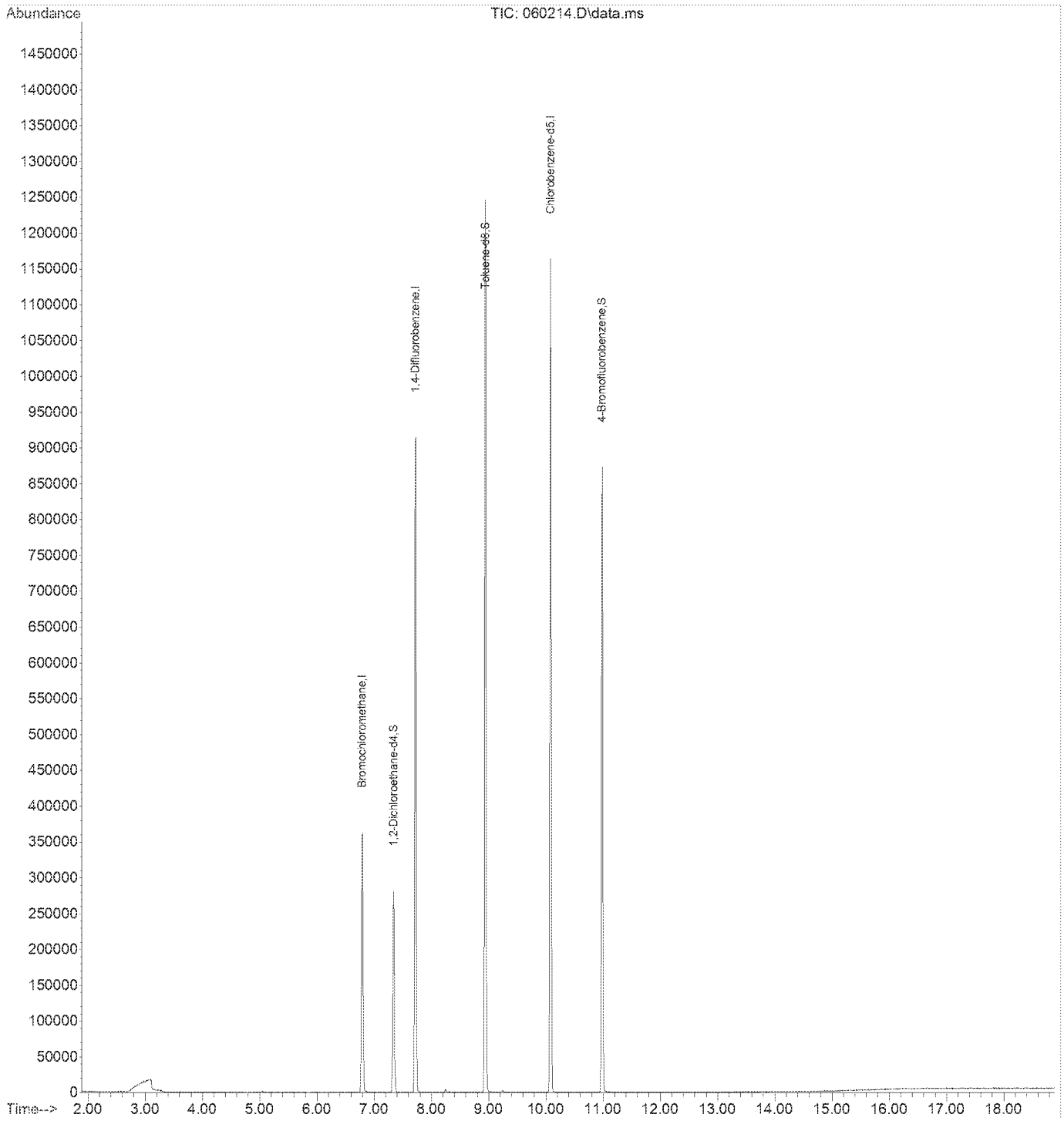
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060214.D
Acq On : 2 Jun 2011 4:46 pm
Operator : jml
Sample : 1105054-005
Misc : 1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 08 16:45:36 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060214.D
Acq On : 2 Jun 2011 4:46 pm
Operator : jml
Sample : 1105054-005
Misc : 1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50426L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 060214.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.790	798	807	818	rBV	362026	679484	33.19%	8.544%
2	7.338	889	897	909	rBV	280923	511357	24.97%	6.430%
3	7.721	951	960	972	rBV	914235	1545235	75.47%	19.431%
4	8.944	1153	1161	1174	rBV	1245066	2047560	100.00%	25.748%
5	10.082	1340	1348	1361	rBV	1163564	1837356	89.73%	23.104%
6	10.982	1489	1496	1507	rBV	872971	1331415	65.02%	16.742%

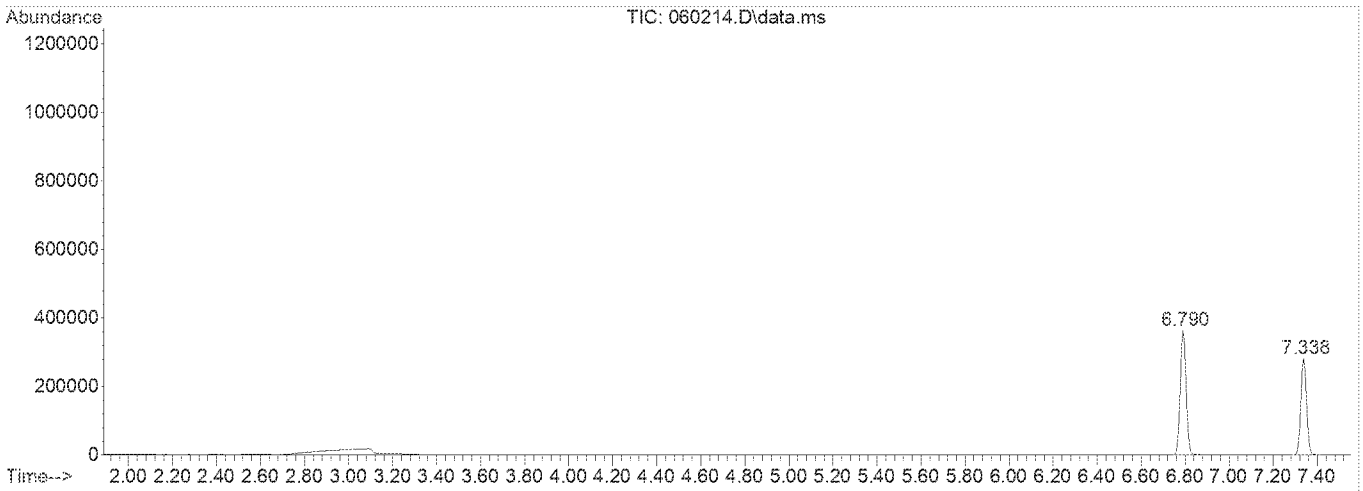
Sum of corrected areas: 7952407

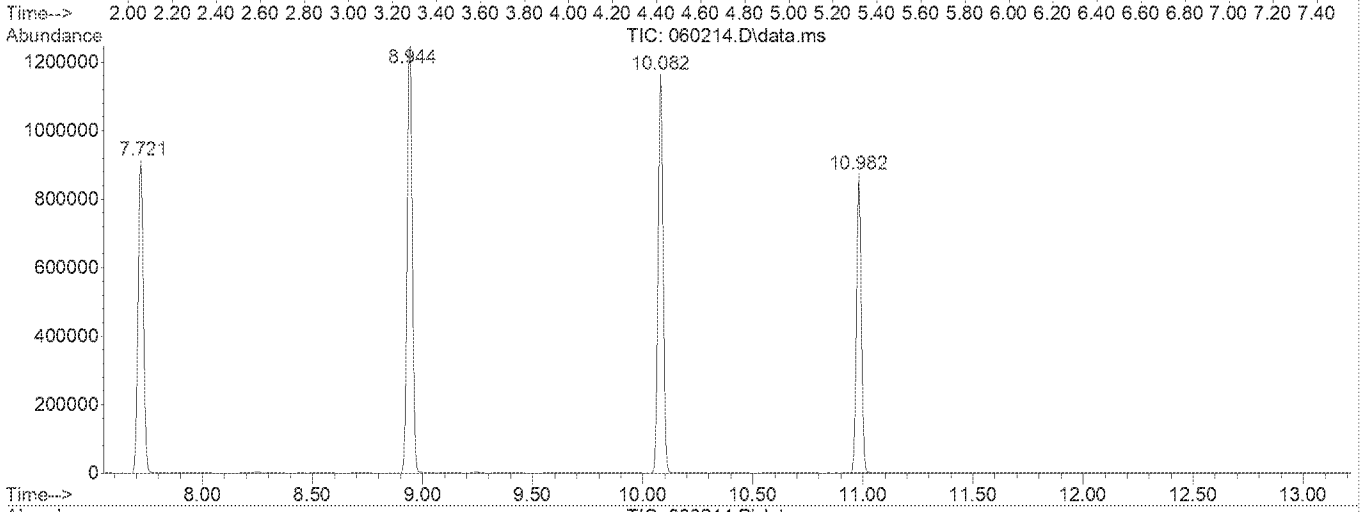
LSC Report - Integrated Chromatogram

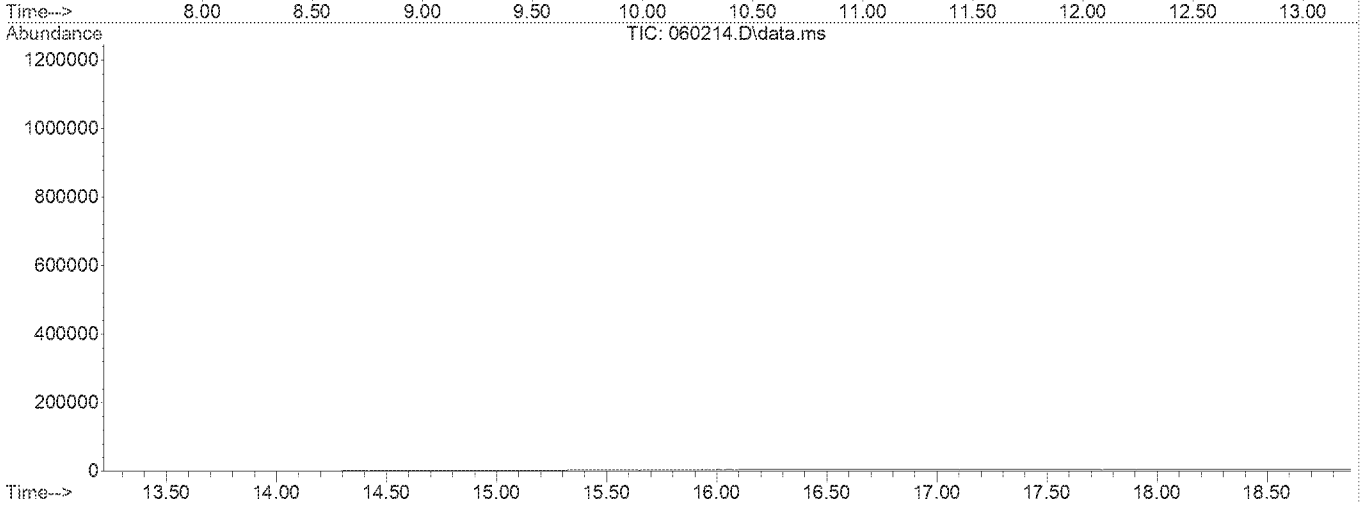
Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060214.D
Acq On : 2 Jun 2011 4:46 pm
Operator : jml
Sample : 1105054-005
Misc : 1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\MS50602L.jml\\
Data File : 060214.D
Acq On    :  2 Jun 2011   4:46 pmm
Operator  : jml1
Sample    : 1105054-0055
Misc      : 11
ALS Vial  : 20   Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50426L.MM
Quant Title  : VOA  Standards for 6 point calibrationn

TIC Library   : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060215.D
Acq On : 2 Jun 2011 5:15 pm
Operator : jml
Sample : 1105054-006
Misc : 1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 08 16:47:34 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

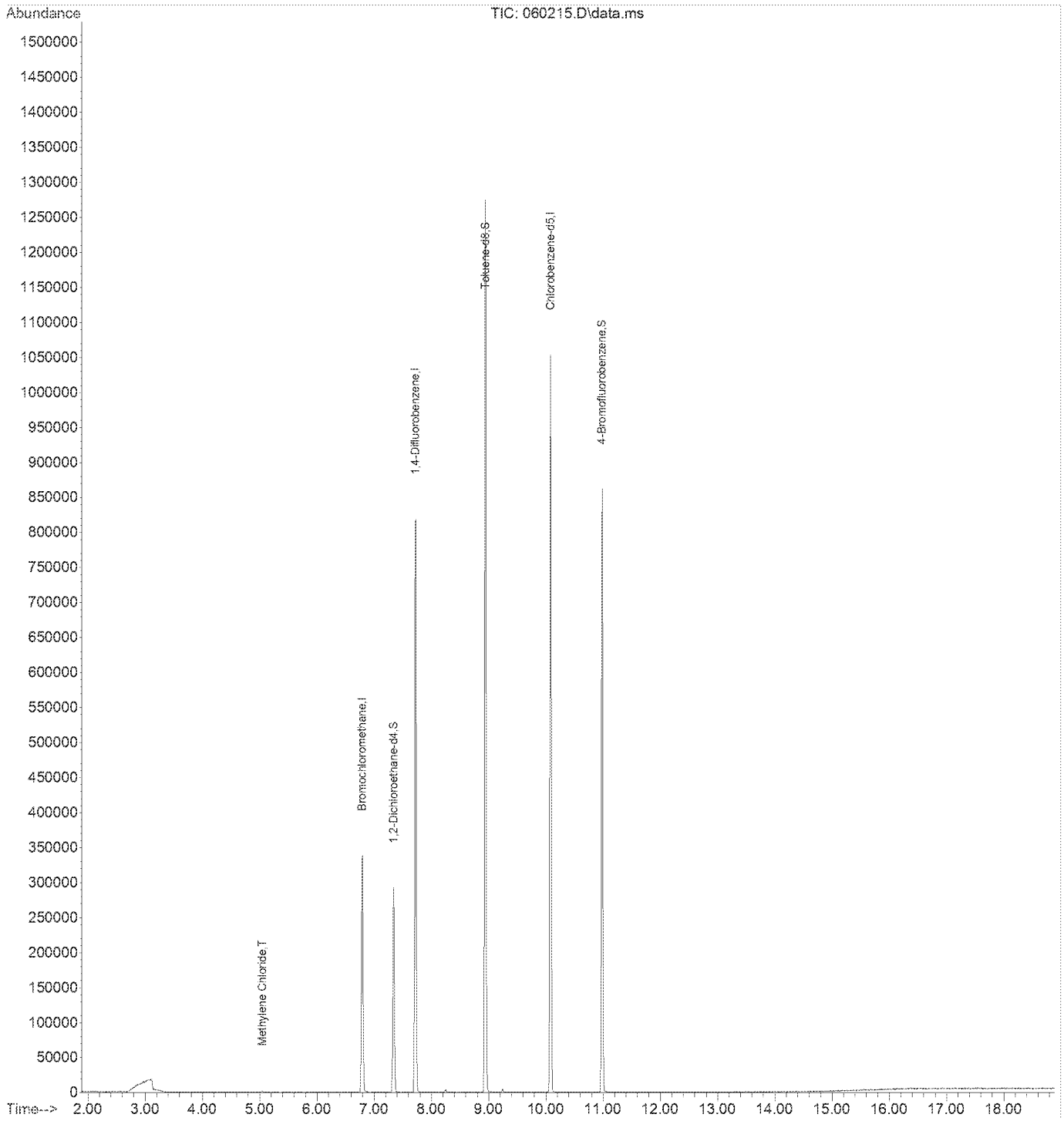
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.790	128	114217	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	687857	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	651959	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	180356	53.19 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 106.38%		
38) Toluene-d8	8.944	98	841821	53.33 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 106.66%		
49) 4-Bromofluorobenzene	10.982	95	268293	46.11 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 92.22%		
Target Compounds					Qvalue
13) Methylene Chloride	5.044	84	1112	0.30 ug/l	94

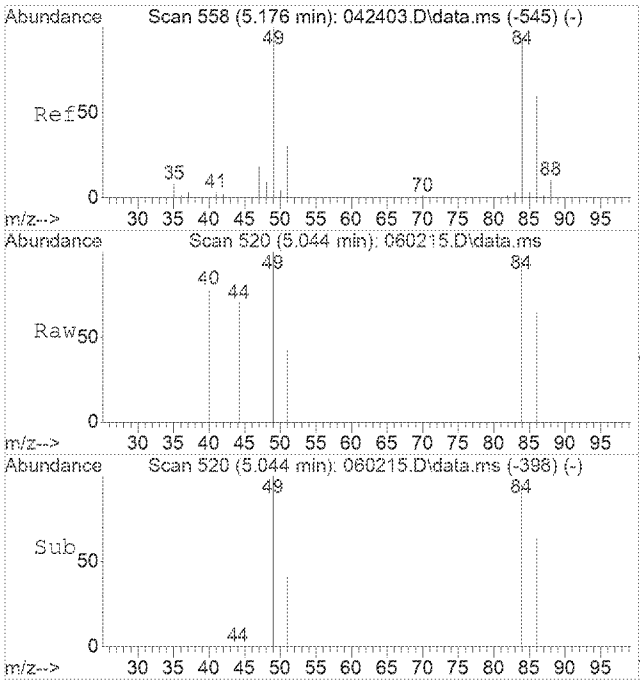
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060215.D
Acq On : 2 Jun 2011 5:15 pm
Operator : jml
Sample : 1105054-006
Misc : 1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 08 16:47:34 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

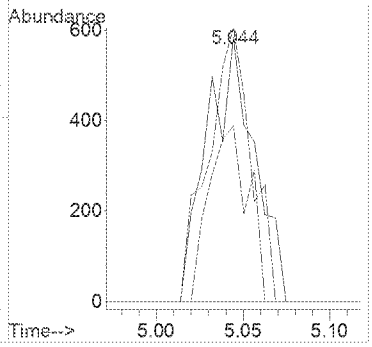




#13
Methylene Chloride
Concen: 0.30 ug/l
RT: 5.044 min Scan# 520
Delta R.T. -0.006 min
Lab File: 060215.D
Acq: 2 Jun 2011 5:15 pm

Tgt Ion: 84 Resp: 1112

Ion	Ratio	Lower	Upper
84	100		
49	103.8	76.3	116.3
86	66.6	43.5	83.5



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060215.D
Acq On : 2 Jun 2011 5:15 pm
Operator : jml
Sample : 1105054-006
Misc : 1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50426L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 060215.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.790	799	807	818	rBV	337970	631061	30.22%	8.319%
2	7.338	890	897	905	rBV	292105	521562	24.98%	6.876%
3	7.721	952	960	973	rBV	818014	1355322	64.91%	17.867%
4	8.944	1152	1161	1173	rBV	1273720	2087915	100.00%	27.525%
5	10.082	1340	1348	1359	rBV	1052759	1656233	79.32%	21.834%
6	10.982	1487	1496	1506	rBV	861621	1333385	63.86%	17.578%

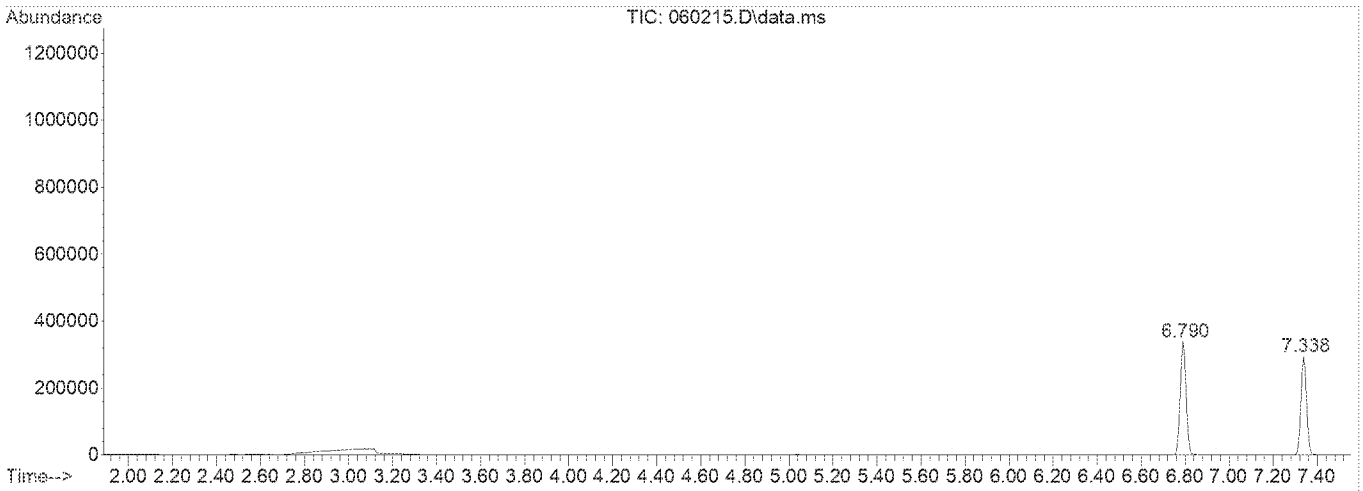
Sum of corrected areas: 7585478

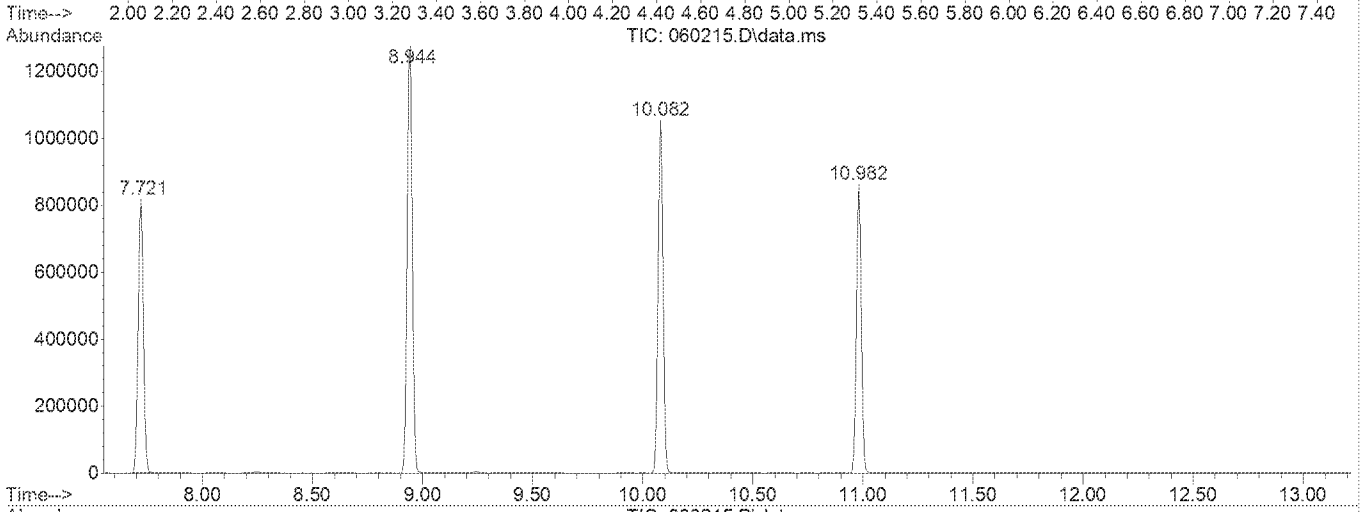
LSC Report - Integrated Chromatogram

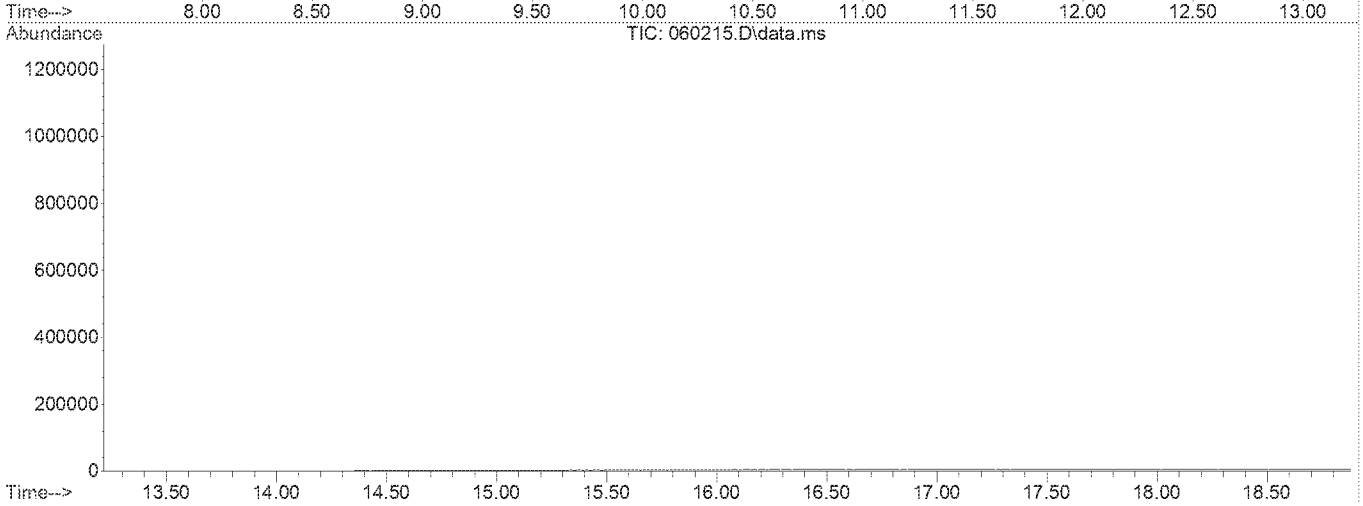
Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060215.D
Acq On : 2 Jun 2011 5:15 pm
Operator : jml
Sample : 1105054-006
Misc : 1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\MS50602L.jml\\
Data File : 060215.D
Acq On : 2 Jun 2011 5:15 pmm
Operator : jml1
Sample : 1105054-0066
Misc : 11
ALS Vial : 21 Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50426L.MM
Quant Title : VOA Standards for 6 point calibrationn

TIC Library : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

Response Factor Report DEL5

Method Path : C:\msdchem\2\Methods\
Method File : I50426L.M
Title : VOA Standards for 6 point calibration
Last Update : Mon May 02 11:29:50 2011
Response Via : Initial Calibration

Calibration Files
20 =040107.D 10 =040108.D 50 =040106.D 100 =040105.D 200 =040104.D 300 =040103.D

		Compound	20	10	50	100	200	300	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Dichlorodifluo...	1.574	1.150	1.577	1.515	1.482	1.558	1.476	11.10
3)	T	Chloromethane	1.695	1.586	1.673	1.638	1.587	1.625	1.634	2.72
4)	T	Vinyl Chloride	1.679	1.456	1.687	1.628	1.566	1.635	1.608	5.38
5)	T	Bromomethane	1.060	1.035	1.069	1.051	1.037	1.000	1.042	2.33
6)	T	Chloroethane	1.012	0.928	1.018	0.982	0.965	0.985	0.982	3.35
7)	T	Trichlorofluor...	2.316	1.732	2.309	2.110	1.927	1.806	2.033	12.36
8)	M	1,1-Dichloroet...	1.486	1.241	1.490	1.457	1.416	1.410	1.417	6.52
9)	T	1,1,2-Trichlor...	1.533	1.081	1.527	1.472	1.458	1.490	1.427	12.06
10)	T	Acetone	0.239	0.249	0.250	0.251	0.244	0.231	0.244	3.08
11)	T	Carbon Disulfide	4.605	4.079	4.623	4.498	4.368	4.363	4.423	4.56
12)	T	Methyl Acetate	0.619	0.609	0.655	0.670	0.655	0.601	0.635	4.53
13)	T	Methylene Chlo...	1.660	1.638	1.651	1.624	1.562	1.522	1.610	3.42
14)	T	trans-1,2-Dich...	1.739	1.626	1.791	1.747	1.682	1.647	1.705	3.75
15)	T	Methyl tert-Bu...	3.791	3.663	3.972	3.935	3.819	3.640	3.803	3.58
16)	T	1,1-Dichloroet...	2.596	2.523	2.668	2.592	2.534	2.470	2.564	2.71
17)	T	cis-1,2-Dichlo...	1.892	1.836	1.931	1.891	1.834	1.784	1.861	2.86
18)	T	2-Butanone (MEK)	0.385	0.404	0.411	0.430	0.423	0.402	0.409	3.94
19)	T	Chloroform	2.642	2.631	2.683	2.605	2.553	2.472	2.598	2.89
20)	S	1,2-Dichloroet...	1.480	1.482	1.458	1.499	1.465	1.522	1.484	1.58
21)	T	1,2-Dichloroet...	1.672	1.644	1.679	1.650	1.594	1.555	1.632	2.96
22)	I	1,4-Difluorobenzene	----------ISTD----------							
23)	T	1,1,1-Trichlor...	0.342	0.296	0.360	0.349	0.348	0.334	0.338	6.56
24)	T	Cyclohexane	0.406	0.283	0.413	0.393	0.397	0.397	0.381	12.78
25)	T	Carbon Tetrach...	0.268	0.202	0.289	0.286	0.297	0.288	0.272	12.98
26)	M	Benzene	1.104	1.077	1.145	1.092	1.074	1.011	1.084	4.06
27)	M	Trichloroethene	0.338	0.315	0.352	0.336	0.331	0.317	0.332	4.18
28)	T	Methylcyclohexane	0.469	0.318	0.490	0.464	0.471	0.466	0.446	14.23
29)	T	1,2-Dichloropr...	0.244	0.241	0.254	0.244	0.242	0.230	0.242	3.14
30)	T	Bromodichlorom...	0.287	0.274	0.302	0.297	0.299	0.284	0.291	3.67
31)	T	cis-1,3-Dichlo...	0.362	0.339	0.387	0.382	0.385	0.365	0.370	4.99
32)	T	trans-1,3-Dich...	0.304	0.283	0.334	0.335	0.341	0.325	0.320	7.01
33)	T	1,1,2-Trichlor...	0.216	0.212	0.223	0.219	0.217	0.206	0.215	2.82
34)	T	Dibromochlorom...	0.220	0.201	0.245	0.248	0.254	0.244	0.236	8.67
35)	T	Bromoform	0.139	0.125	0.161	0.172	0.182	0.177	0.159	14.10
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)	T	4-Methyl-2-Pen...	0.143	0.141	0.159	0.160	0.160	0.150	0.152	5.65
38)	S	Toluene-d8	1.210	1.221	1.215	1.208	1.215	1.196	1.211	0.71
39)	M	Toluene	1.357	1.312	1.412	1.348	1.318	1.218	1.327	4.84
40)	T	Tetrachloroethene	0.337	0.287	0.352	0.334	0.334	0.320	0.327	6.78
41)	T	2-Hexanone	0.092	0.086	0.102	0.104	0.106	0.099	0.098	7.79
42)	T	1,2-Dibromoeth...	0.234	0.229	0.248	0.243	0.240	0.224	0.236	3.81
43)	M	Chlorobenzene	0.931	0.925	0.976	0.943	0.925	0.860	0.927	4.08
44)	T	Ethylbenzene	0.519	0.491	0.547	0.528	0.525	0.492	0.517	4.26
45)	T	m/p-Xylene	0.648	0.613	0.679	0.649	0.636	0.588	0.635	4.97
46)	T	o-Xylene	0.632	0.611	0.660	0.635	0.625	0.579	0.624	4.37
47)	T	Xylenes (Total)	0.632	0.611	0.660	0.635	0.625	0.579	0.624	4.37
48)	T	Styrene	1.032	0.929	1.094	1.066	1.050	0.972	1.024	6.05
49)	S	4-Bromofluorob...	0.440	0.441	0.446	0.448	0.451	0.451	0.446	1.03
50)	T	Isopropylbenze...	1.538	1.384	1.615	1.554	1.532	1.429	1.508	5.66
51)	T	1,1,2,2-Tetrac...	0.251	0.252	0.269	0.265	0.262	0.245	0.257	3.70
52)	T	1,3-Dichlorobe...	0.808	0.785	0.859	0.835	0.842	0.796	0.821	3.50
53)	T	1,4-Dichlorobe...	0.817	0.788	0.864	0.846	0.849	0.802	0.828	3.62
54)	T	1,2-Dichlorobe...	0.754	0.733	0.797	0.779	0.781	0.738	0.764	3.37
55)	T	1,2-Dibromo-3-...	0.032	0.031	0.038	0.040	0.042	0.039	0.037	12.38
56)	T	1,2,4-Trichlor...	0.510	0.448	0.590	0.605	0.626	0.593	0.562	12.15

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040108.D
Acq On : 1 Apr 2011 3:23 pm
Operator : cim
Sample : VSTD010
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 02 11:29:39 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	128488	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	808032	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	722322	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	190398	49.91 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 99.82%		
38) Toluene-d8	8.944	98	881990	50.43 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.86%		
49) 4-Bromofluorobenzene	10.982	95	318904	49.47 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 98.94%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.984	85	29558	7.79 ug/l	98
3) Chloromethane	2.234	50	40768	9.71 ug/l	99
4) Vinyl Chloride	2.380	62	37406	9.05 ug/l	98
5) Bromomethane	2.860	94	26608	9.93 ug/l	98
6) Chloroethane	3.025	64	23845	9.45 ug/l	100
7) Trichlorofluoromethane	3.420	101	44498	8.52 ug/l	99
8) 1,1-Dichloroethene	4.296	96	31897	8.76 ug/l	98
9) 1,1,2-Trichloro-1,2,2-...	4.320	101	27777	7.57 ug/l	97
10) Acetone	4.454	43	6399	10.20 ug/l	96
11) Carbon Disulfide	4.600	76	104828	9.22 ug/l	99
12) Methyl Acetate	4.941	43	15651	9.59 ug/l	99
13) Methylene Chloride	5.050	84	42092	10.18 ug/l	97
14) trans-1,2-Dichloroethene	5.409	96	41786	9.54 ug/l	97
15) Methyl tert-Butyl Ethe...	5.422	73	94125	9.63 ug/l	98
16) 1,1-Dichloroethane	5.920	63	64844	9.84 ug/l	96
17) cis-1,2-Dichloroethene	6.553	96	47173	9.86 ug/l	93
18) 2-Butanone (MEK)	6.590	43	10373	9.87 ug/l	97
19) Chloroform	6.876	83	67606	10.13 ug/l	99
21) 1,2-Dichloroethane (EDC)	7.411	62	42251	10.69 ug/l	99
23) 1,1,1-Trichloroethane	7.040	97	47885	8.76 ug/l	98
24) Cyclohexane	7.082	56	45732	7.42 ug/l	99
25) Carbon Tetrachloride	7.192	117	32686	7.45 ug/l	96
26) Benzene	7.387	78	174062	9.94 ug/l	99
27) Trichloroethene	7.946	130	50920	9.50 ug/l	98
28) Methylcyclohexane	8.104	83	51412	7.13 ug/l	97
29) 1,2-Dichloropropane	8.141	63	38934	9.94 ug/l	97
30) Bromodichloromethane	8.372	83	44340	9.44 ug/l	98
31) cis-1,3-Dichloropropene	8.725	75	54811	9.17 ug/l	99
32) trans-1,3-Dichloropropene	9.163	75	45713	8.83 ug/l	98
33) 1,1,2-Trichloroethane	9.315	97	34246	9.84 ug/l	96
34) Dibromochloromethane	9.631	129	32552	8.55 ug/l	96
35) Bromoform	10.751	173	20258	7.87 ug/l	99
37) 4-Methyl-2-Pentanone (...	8.841	43	20414	9.28 ug/l	96
39) Toluene	8.999	91	189602	9.89 ug/l	100
40) Tetrachloroethene	9.431	164	41514	8.78 ug/l	95
41) 2-Hexanone	9.485	43	12414	8.77 ug/l	98
42) 1,2-Dibromoethane (EDB)	9.735	107	33147	9.71 ug/l	96
43) Chlorobenzene	10.106	112	133697	9.99 ug/l	98
44) Ethylbenzene	10.173	106	70929	9.50 ug/l	97
45) m/p-Xylene	10.258	106	177234	19.31 ug/l	97
46) o-Xylene	10.568	106	88288	9.80 ug/l	97
47) Xylenes (Total)	10.568	106	88288	9.80 ug/l	97
48) Styrene	10.580	104	134189	9.07 ug/l	99
50) Isopropylbenzene (Cumene)	10.848	105	199931	9.17 ug/l	99
51) 1,1,2,2-Tetrachloroethane	11.073	83	36382	9.78 ug/l	99
52) 1,3-Dichlorobenzene	11.834	146	113470	9.57 ug/l	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040108.D
Acq On : 1 Apr 2011 3:23 pm
Operator : cim
Sample : VSTD010
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 02 11:29:39 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

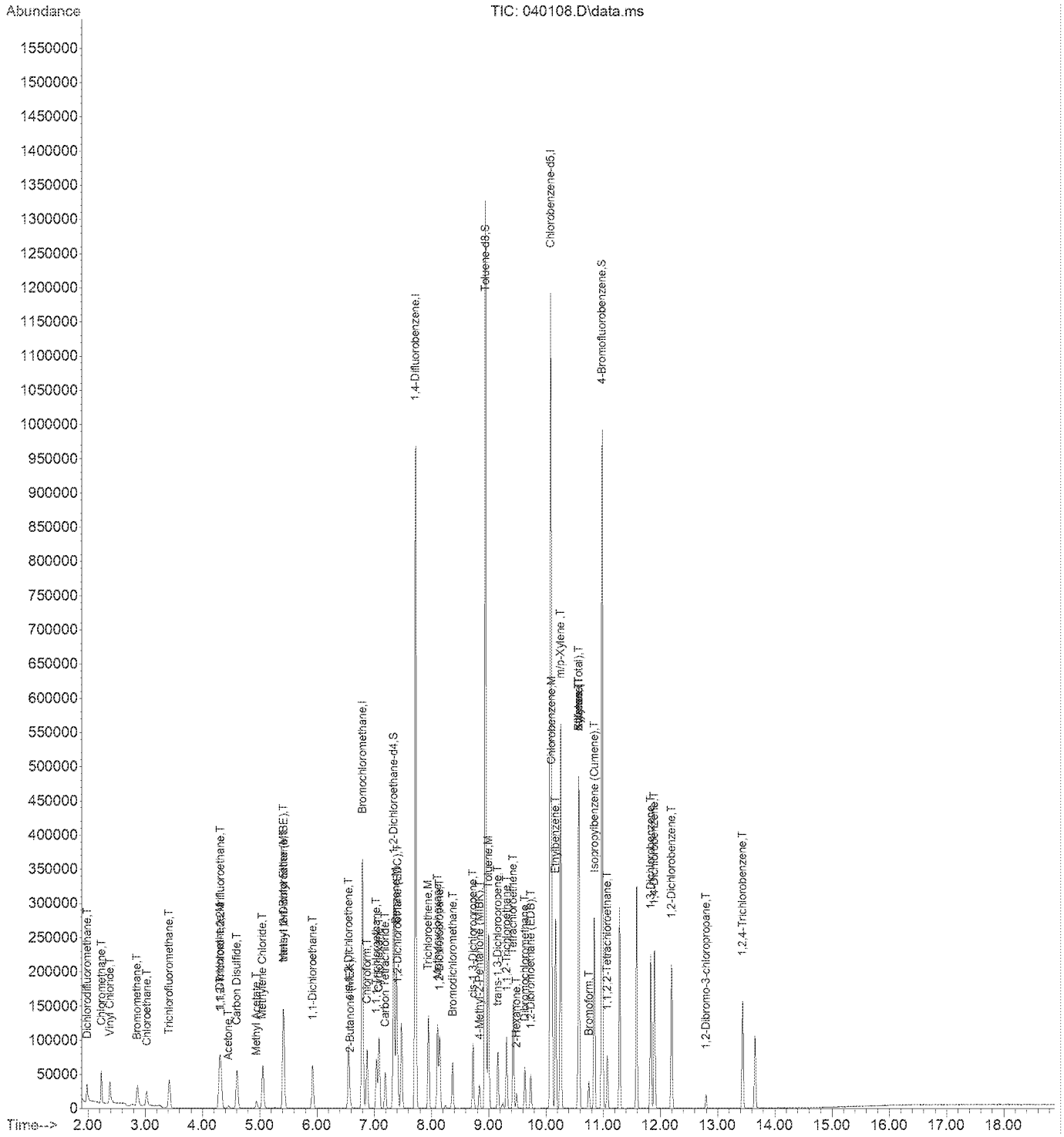
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
53) 1,4-Dichlorobenzene	11.901	146	113771	9.51 ug/l	99
54) 1,2-Dichlorobenzene	12.193	146	105915	9.60 ug/l	97
55) 1,2-Dibromo-3-chloropr...	12.795	75	4460	8.37 ug/l	98
56) 1,2,4-Trichlorobenzene	13.440	180	64760	7.98 ug/l	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040108.D
Acq On : 1 Apr 2011 3:23 pm
Operator : cim
Sample : VSTD010
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 02 11:29:39 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040107.D
Acq On : 1 Apr 2011 2:54 pm
Operator : cim
Sample : VSTD020
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 02 11:29:21 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	130148	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	821328	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	740612	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	192671	49.86 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 99.72%		
38) Toluene-d8	8.944	98	895970	49.97 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.94%		
49) 4-Bromofluorobenzene	10.982	95	325938	49.31 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 98.62%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.984	85	81959	21.33 ug/l	99
3) Chloromethane	2.234	50	88264	20.75 ug/l	96
4) Vinyl Chloride	2.386	62	87397	20.87 ug/l	99
5) Bromomethane	2.866	94	55170	20.34 ug/l	98
6) Chloroethane	3.025	64	52678	20.62 ug/l	95
7) Trichlorofluoromethane	3.420	101	120554	22.78 ug/l	100
8) 1,1-Dichloroethene	4.296	96	77341	20.97 ug/l	95
9) 1,1,2-Trichloro-1,2,2-...	4.320	101	79832	21.49 ug/l	96
10) Acetone	4.448	43	12453	19.61 ug/l	98
11) Carbon Disulfide	4.606	76	239735	20.82 ug/l	99
12) Methyl Acetate	4.935	43	32221	19.50 ug/l	94
13) Methylene Chloride	5.050	84	86397	20.62 ug/l	97
14) trans-1,2-Dichloroethene	5.409	96	90514	20.39 ug/l	98
15) Methyl tert-Butyl Ethe...	5.422	73	197361	19.93 ug/l	100
16) 1,1-Dichloroethane	5.926	63	135149	20.25 ug/l	99
17) cis-1,2-Dichloroethene	6.553	96	98494	20.33 ug/l	96
18) 2-Butanone (MEK)	6.583	43	20039	18.82 ug/l	94
19) Chloroform	6.876	83	137559	20.34 ug/l	97
21) 1,2-Dichloroethane (EDC)	7.411	62	87034	23.21 ug/l	100
23) 1,1,1-Trichloroethane	7.040	97	112513	20.26 ug/l	98
24) Cyclohexane	7.082	56	133241	21.27 ug/l	99
25) Carbon Tetrachloride	7.192	117	88137	19.75 ug/l	99
26) Benzene	7.387	78	362737	20.38 ug/l	98
27) Trichloroethene	7.946	130	111195	20.42 ug/l	99
28) Methylcyclohexane	8.104	83	154138	21.02 ug/l	99
29) 1,2-Dichloropropane	8.141	63	80069	20.12 ug/l	99
30) Bromodichloromethane	8.366	83	94297	19.75 ug/l	99
31) cis-1,3-Dichloropropene	8.725	75	118801	19.55 ug/l	99
32) trans-1,3-Dichloropropene	9.163	75	99964	18.99 ug/l	99
33) 1,1,2-Trichloroethane	9.315	97	70880	20.03 ug/l	100
34) Dibromochloromethane	9.631	129	72246	18.67 ug/l	99
35) Bromoform	10.751	173	45646	17.45 ug/l	96
37) 4-Methyl-2-Pentanone (...	8.841	43	42345	18.78 ug/l	99
39) Toluene	8.999	91	401894	20.44 ug/l	100
40) Tetrachloroethene	9.431	164	99788	20.57 ug/l	99
41) 2-Hexanone	9.485	43	27252	18.77 ug/l	96
42) 1,2-Dibromoethane (EDB)	9.735	107	69340	19.81 ug/l	98
43) Chlorobenzene	10.106	112	275696	20.09 ug/l	99
44) Ethylbenzene	10.173	106	153640	20.07 ug/l	97
45) m/p-Xylene	10.258	106	383901	40.79 ug/l	98
46) o-Xylene	10.574	106	187134	20.26 ug/l	99
47) Xylenes (Total)	10.574	106	187134	20.26 ug/l	99
48) Styrene	10.580	104	305728	20.16 ug/l	99
50) Isopropylbenzene (Cumene)	10.848	105	455478	20.38 ug/l	100
51) 1,1,2,2-Tetrachloroethane	11.073	83	74432	19.52 ug/l	100
52) 1,3-Dichlorobenzene	11.834	146	239397	19.69 ug/l	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040107.D
Acq On : 1 Apr 2011 2:54 pm
Operator : cim
Sample : VSTD020
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 02 11:29:21 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

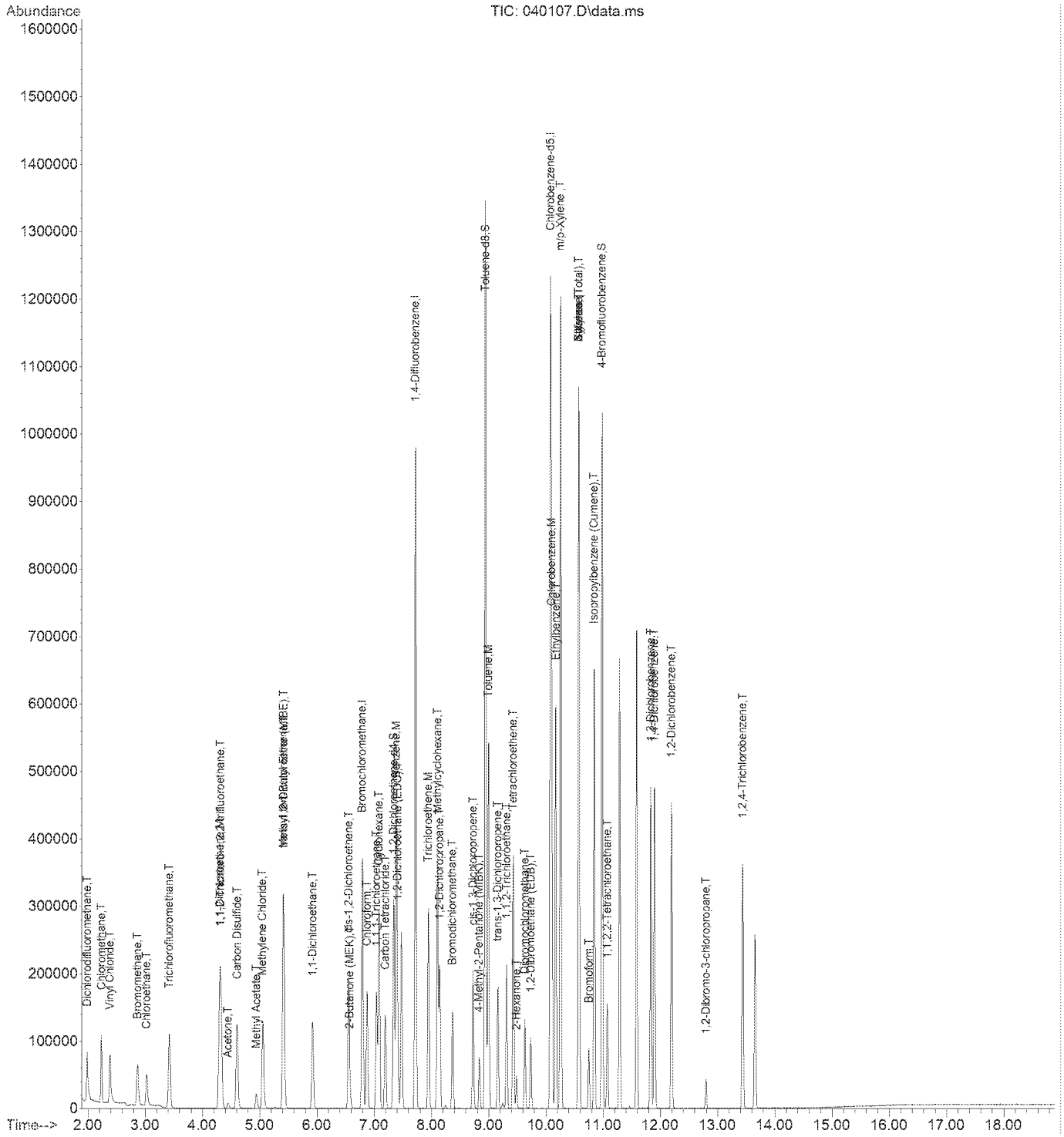
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
53) 1,4-Dichlorobenzene	11.901	146	242162	19.75 ug/l	98
54) 1,2-Dichlorobenzene	12.193	146	223340	19.74 ug/l	100
55) 1,2-Dibromo-3-chloropr...	12.795	75	9396	17.19 ug/l	99
56) 1,2,4-Trichlorobenzene	13.440	180	150995	18.14 ug/l	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040107.D
Acq On : 1 Apr 2011 2:54 pm
Operator : cim
Sample : VSTD020
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 02 11:29:21 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040106.D
Acq On : 1 Apr 2011 2:25 pm
Operator : cim
Sample : VSTD050
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 02 11:28:59 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.797	128	125471	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	783024	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	702425	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	182910	49.10 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 98.20%		
38) Toluene-d8	8.944	98	853162	50.17 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.34%		
49) 4-Bromofluorobenzene	10.982	95	313572	50.02 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 100.04%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.984	85	197807	53.40 ug/l	100
3) Chloromethane	2.234	50	209922	51.19 ug/l	100
4) Vinyl Chloride	2.380	62	211682	52.44 ug/l	100
5) Bromomethane	2.860	94	134187	51.31 ug/l	100
6) Chloroethane	3.025	64	127691	51.84 ug/l	100
7) Trichlorofluoromethane	3.420	101	289698	56.78 ug/l	100
8) 1,1-Dichloroethene	4.296	96	186983	52.60 ug/l	100
9) 1,1,2-Trichloro-1,2,2-...	4.321	101	191650	53.52 ug/l	100
10) Acetone	4.436	43	31319	51.14 ug/l	100
11) Carbon Disulfide	4.600	76	580054	52.26 ug/l	100
12) Methyl Acetate	4.935	43	82211	51.61 ug/l	100
13) Methylene Chloride	5.051	84	207168	51.29 ug/l	100
14) trans-1,2-Dichloroethene	5.409	96	224710	52.51 ug/l	100
15) Methyl tert-Butyl Ethe...	5.416	73	498423	52.22 ug/l	100
16) 1,1-Dichloroethane	5.927	63	334792	52.04 ug/l	100
17) cis-1,2-Dichloroethene	6.553	96	242288	51.88 ug/l	100
18) 2-Butanone (MEK)	6.578	43	51576	50.23 ug/l	100
19) Chloroform	6.876	83	336597	51.64 ug/l	100
21) 1,2-Dichloroethane (EDC)	7.411	62	210693	62.32 ug/l	98
23) 1,1,1-Trichloroethane	7.040	97	281658	53.19 ug/l	100
24) Cyclohexane	7.082	56	323239	54.12 ug/l	100
25) Carbon Tetrachloride	7.192	117	226195	53.17 ug/l	100
26) Benzene	7.387	78	896191	52.80 ug/l	100
27) Trichloroethene	7.946	130	275299	53.03 ug/l	100
28) Methylcyclohexane	8.104	83	383435	54.84 ug/l	100
29) 1,2-Dichloropropane	8.141	63	198685	52.36 ug/l	100
30) Bromodichloromethane	8.366	83	236645	51.98 ug/l	100
31) cis-1,3-Dichloropropene	8.725	75	303310	52.34 ug/l	100
32) trans-1,3-Dichloropropene	9.163	75	261766	52.17 ug/l	100
33) 1,1,2-Trichloroethane	9.315	97	174966	51.86 ug/l	100
34) Dibromochloromethane	9.631	129	191809	52.00 ug/l	100
35) Bromoform	10.751	173	126434	50.69 ug/l	100
37) 4-Methyl-2-Pentanone (...	8.835	43	111642	52.22 ug/l	100
39) Toluene	8.993	91	991911	53.19 ug/l	100
40) Tetrachloroethene	9.431	164	247519	53.80 ug/l	100
41) 2-Hexanone	9.485	43	71643	52.03 ug/l	100
42) 1,2-Dibromoethane (EDB)	9.735	107	174174	52.46 ug/l	100
43) Chlorobenzene	10.106	112	685507	52.66 ug/l	100
44) Ethylbenzene	10.173	106	384355	52.93 ug/l	100
45) m/p-Xylene	10.258	106	953589	106.82 ug/l	100
46) o-Xylene	10.568	106	463705	52.93 ug/l	100
47) Xylenes (Total)	10.568	106	463705	52.93 ug/l	100
48) Styrene	10.581	104	768504	53.43 ug/l	100
50) Isopropylbenzene (Cumene)	10.848	105	1134173	53.52 ug/l	100
51) 1,1,2,2-Tetrachloroethane	11.073	83	189040	52.28 ug/l	100
52) 1,3-Dichlorobenzene	11.834	146	603346	52.32 ug/l	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040106.D
Acq On : 1 Apr 2011 2:25 pm
Operator : cim
Sample : VSTD050
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 02 11:28:59 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

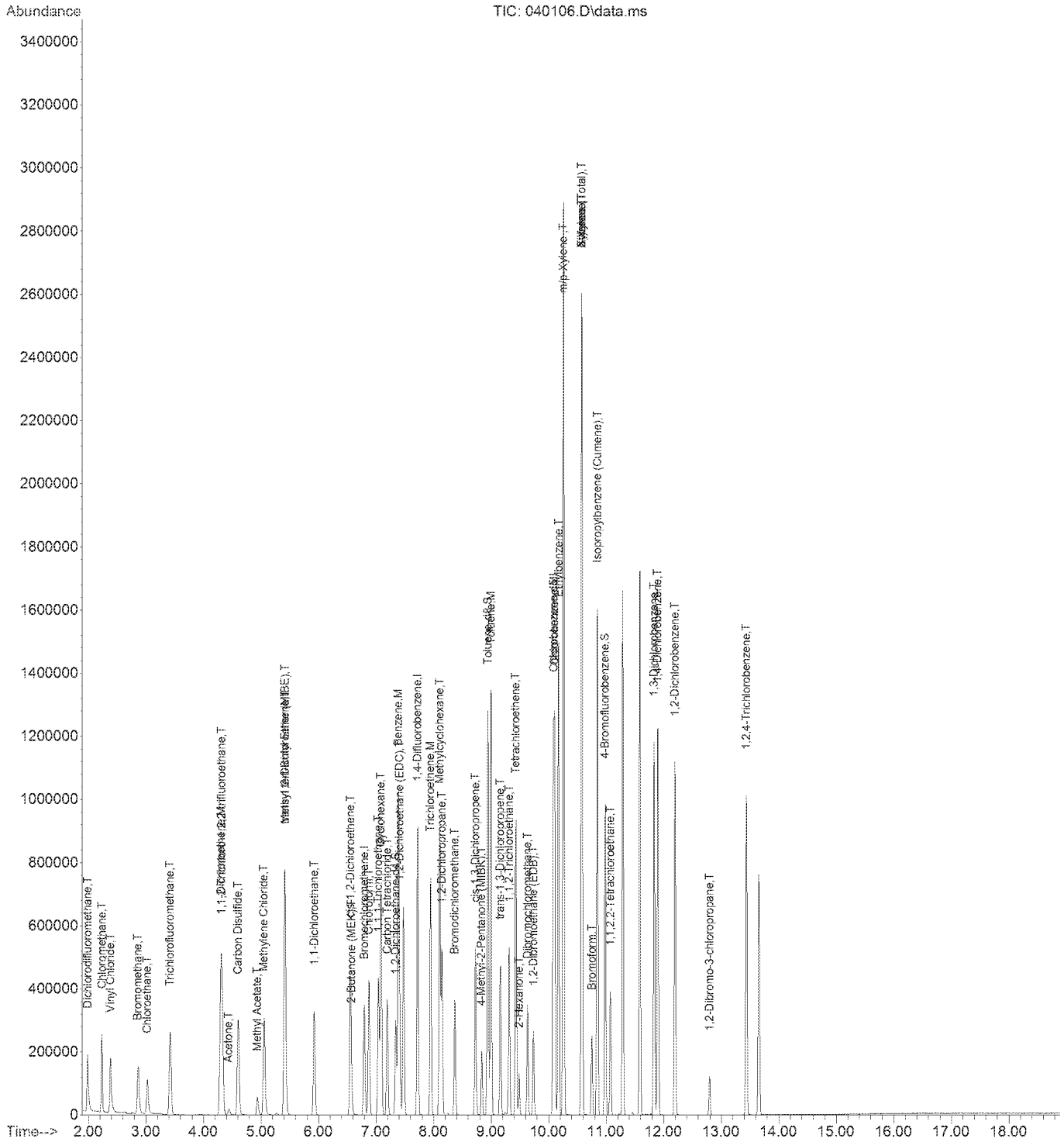
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
53) 1,4-Dichlorobenzene	11.895	146	607043	52.21 ug/l	100
54) 1,2-Dichlorobenzene	12.193	146	559788	52.17 ug/l	100
55) 1,2-Dibromo-3-chloropr...	12.795	75	26545	51.21 ug/l	100
56) 1,2,4-Trichlorobenzene	13.434	180	414289	52.48 ug/l	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040106.D
Acq On : 1 Apr 2011 2:25 pm
Operator : cim
Sample : VSTD050
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 02 11:28:59 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040105.D
Acq On : 1 Apr 2011 1:57 pm
Operator : cim
Sample : VSTD100
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 02 11:28:41 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	126220	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	802665	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	720947	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	189199	50.49 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 100.98%		
38) Toluene-d8	8.944	98	870735	49.88 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.76%		
49) 4-Bromofluorobenzene	10.982	95	322767	50.16 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 100.32%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.984	85	382473	102.65 ug/l	98
3) Chloromethane	2.234	50	413522	100.24 ug/l	97
4) Vinyl Chloride	2.386	62	411010	101.22 ug/l	99
5) Bromomethane	2.860	94	265276	100.83 ug/l	97
6) Chloroethane	3.025	64	247985	100.08 ug/l	96
7) Trichlorofluoromethane	3.420	101	532742	103.79 ug/l	99
8) 1,1-Dichloroethene	4.296	96	367754	102.83 ug/l	98
9) 1,1,2-Trichloro-1,2,2-...	4.320	101	371467	103.12 ug/l	97
10) Acetone	4.436	43	63259	102.69 ug/l	95
11) Carbon Disulfide	4.600	76	1135376	101.69 ug/l	100
12) Methyl Acetate	4.935	43	169098	105.53 ug/l	98
13) Methylene Chloride	5.057	84	410016	100.91 ug/l	99
14) trans-1,2-Dichloroethene	5.409	96	441030	102.45 ug/l	99
15) Methyl tert-Butyl Ethe...	5.422	73	993381	103.46 ug/l	99
16) 1,1-Dichloroethane	5.927	63	654213	101.08 ug/l	98
17) cis-1,2-Dichloroethene	6.553	96	477392	101.61 ug/l	99
18) 2-Butanone (MEK)	6.577	43	108479	105.03 ug/l	97
19) Chloroform	6.876	83	657688	100.29 ug/l	99
21) 1,2-Dichloroethane (EDC)	7.411	62	416586	131.60 ug/l	97
23) 1,1,1-Trichloroethane	7.040	97	559460	103.07 ug/l	99
24) Cyclohexane	7.082	56	631519	103.14 ug/l	99
25) Carbon Tetrachloride	7.192	117	458451	105.12 ug/l	99
26) Benzene	7.387	78	1753378	100.78 ug/l	100
27) Trichloroethene	7.946	130	539096	101.30 ug/l	99
28) Methylcyclohexane	8.104	83	745066	103.95 ug/l	99
29) 1,2-Dichloropropane	8.141	63	391203	100.58 ug/l	100
30) Bromodichloromethane	8.372	83	477557	102.34 ug/l	98
31) cis-1,3-Dichloropropene	8.725	75	613133	103.22 ug/l	100
32) trans-1,3-Dichloropropene	9.163	75	538571	104.71 ug/l	99
33) 1,1,2-Trichloroethane	9.315	97	351776	101.72 ug/l	100
34) Dibromochloromethane	9.631	129	398791	105.48 ug/l	99
35) Bromoform	10.751	173	275567	107.77 ug/l	99
37) 4-Methyl-2-Pentanone (...	8.834	43	230078	104.84 ug/l	100
39) Toluene	8.999	91	1943068	101.51 ug/l	99
40) Tetrachloroethene	9.431	164	481703	102.02 ug/l	99
41) 2-Hexanone	9.485	43	149690	105.92 ug/l	100
42) 1,2-Dibromoethane (EDB)	9.735	107	350616	102.90 ug/l	99
43) Chlorobenzene	10.106	112	1359697	101.77 ug/l	100
44) Ethylbenzene	10.173	106	760697	102.07 ug/l	98
45) m/p-Xylene	10.258	106	1871897	204.30 ug/l	99
46) o-Xylene	10.574	106	915523	101.81 ug/l	98
47) Xylenes (Total)	10.574	106	915523	101.81 ug/l	98
48) Styrene	10.580	104	1536920	104.11 ug/l	99
50) Isopropylbenzene (Cumene)	10.848	105	2240551	103.01 ug/l	99
51) 1,1,2,2-Tetrachloroethane	11.073	83	382650	103.11 ug/l	99
52) 1,3-Dichlorobenzene	11.834	146	1204399	101.75 ug/l	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040105.D
Acq On : 1 Apr 2011 1:57 pm
Operator : cim
Sample : VSTD100
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 02 11:28:41 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

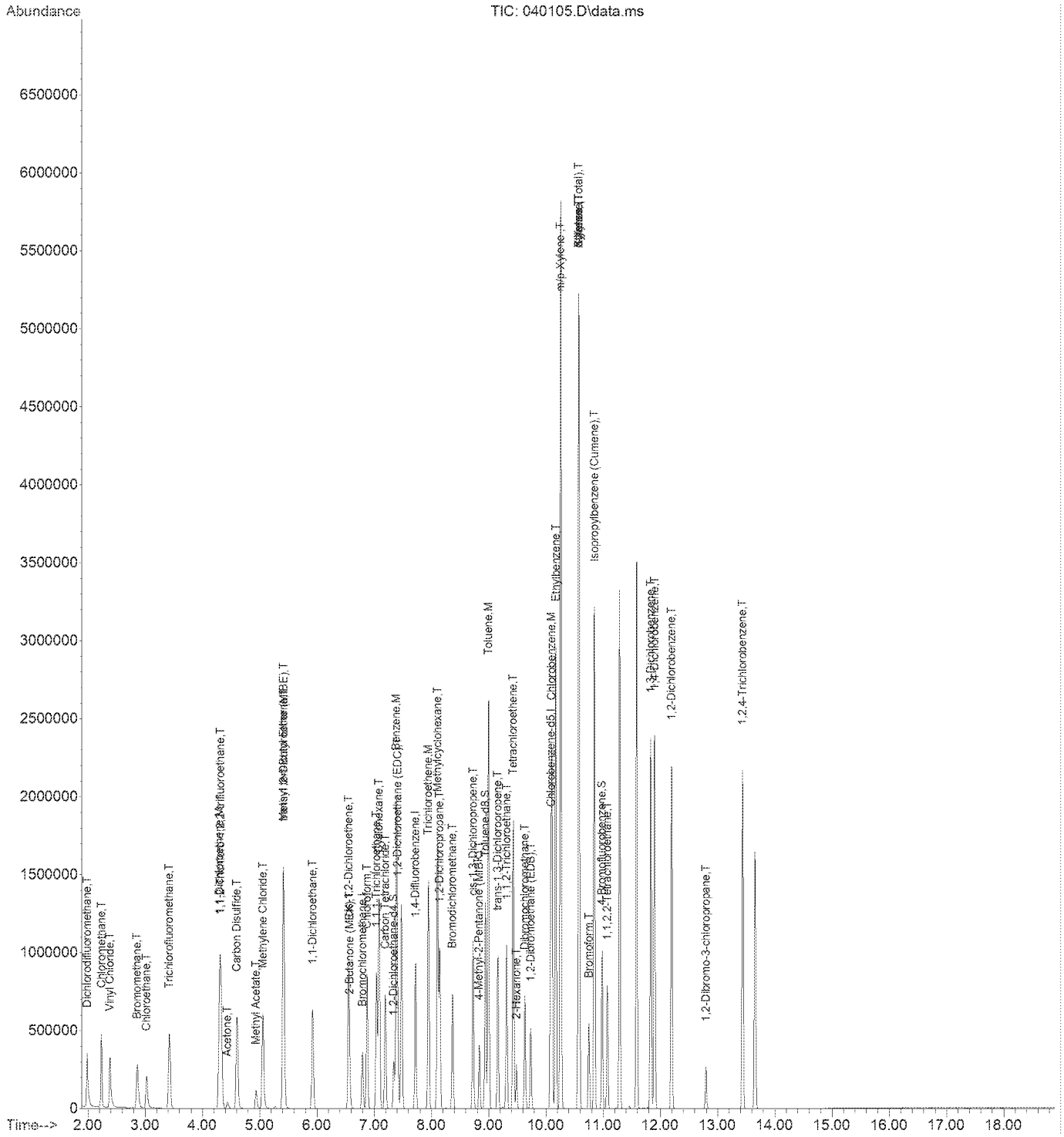
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
53) 1,4-Dichlorobenzene	11.901	146	1220023	102.23 ug/l	98
54) 1,2-Dichlorobenzene	12.199	146	1123458	102.02 ug/l	97
55) 1,2-Dibromo-3-chloropr...	12.795	75	57999	109.01 ug/l	97
56) 1,2,4-Trichlorobenzene	13.434	180	872917	107.74 ug/l	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040105.D
Acq On : 1 Apr 2011 1:57 pm
Operator : cim
Sample : VSTD100
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 02 11:28:41 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040104.D
Acq On : 1 Apr 2011 1:28 pm
Operator : cim
Sample : VSTD200
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 02 11:28:20 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	133529	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	834711	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.081	117	752675	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	195680	49.36 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 98.72%		
38) Toluene-d8	8.944	98	914193	50.17 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.34%		
49) 4-Bromofluorobenzene	10.982	95	339520	50.54 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 101.08%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.984	85	791647	200.83 ug/l	100
3) Chloromethane	2.234	50	847540	194.20 ug/l	99
4) Vinyl Chloride	2.386	62	836182	194.66 ug/l	98
5) Bromomethane	2.854	94	554119	199.09 ug/l	98
6) Chloroethane	3.018	64	515301	196.57 ug/l	96
7) Trichlorofluoromethane	3.420	101	1029443	189.59 ug/l	100
8) 1,1-Dichloroethene	4.296	96	756338	199.91 ug/l	99
9) 1,1,2-Trichloro-1,2,2-...	4.320	101	778959	204.41 ug/l	97
10) Acetone	4.436	43	130516	200.27 ug/l	100
11) Carbon Disulfide	4.600	76	2333230	197.54 ug/l	100
12) Methyl Acetate	4.935	43	349773	206.33 ug/l	99
13) Methylene Chloride	5.050	84	834542	194.15 ug/l	99
14) trans-1,2-Dichloroethene	5.409	96	898271	197.25 ug/l	100
15) Methyl tert-Butyl Ethe...	5.415	73	2039969	200.83 ug/l	99
16) 1,1-Dichloroethane	5.920	63	1353212	197.64 ug/l	99
17) cis-1,2-Dichloroethene	6.553	96	979459	197.05 ug/l	99
18) 2-Butanone (MEK)	6.577	43	226169	206.99 ug/l	94
19) Chloroform	6.875	83	1363649	196.57 ug/l	99
21) 1,2-Dichloroethane (EDC)	7.411	62	851168	273.49 ug/l	97
23) 1,1,1-Trichloroethane	7.040	97	1162065	205.87 ug/l	98
24) Cyclohexane	7.088	56	1324679	208.05 ug/l	99
25) Carbon Tetrachloride	7.192	117	990060	218.31 ug/l	99
26) Benzene	7.386	78	3585694	198.19 ug/l	99
27) Trichloroethene	7.946	130	1106652	199.96 ug/l	99
28) Methylcyclohexane	8.104	83	1574206	211.21 ug/l	99
29) 1,2-Dichloropropane	8.141	63	806823	199.47 ug/l	100
30) Bromodichloromethane	8.366	83	997970	205.65 ug/l	99
31) cis-1,3-Dichloropropene	8.725	75	1284478	207.95 ug/l	99
32) trans-1,3-Dichloropropene	9.163	75	1137643	212.69 ug/l	98
33) 1,1,2-Trichloroethane	9.315	97	722914	201.02 ug/l	99
34) Dibromochloromethane	9.631	129	848943	215.92 ug/l	99
35) Bromoform	10.751	173	606382	228.05 ug/l	100
37) 4-Methyl-2-Pentanone (...	8.834	43	481980	210.38 ug/l	99
39) Toluene	8.998	91	3967373	198.54 ug/l	99
40) Tetrachloroethene	9.430	164	1006474	204.17 ug/l	99
41) 2-Hexanone	9.485	43	318287	215.73 ug/l	100
42) 1,2-Dibromoethane (EDB)	9.735	107	721505	202.81 ug/l	100
43) Chlorobenzene	10.106	112	2783617	199.56 ug/l	100
44) Ethylbenzene	10.173	106	1581810	203.30 ug/l	96
45) m/p-Xylene	10.258	106	3827693	400.15 ug/l	98
46) o-Xylene	10.574	106	1882682	200.54 ug/l	97
47) Xylenes (Total)	10.574	106	1882682	200.54 ug/l	97
48) Styrene	10.580	104	3162199	205.17 ug/l	99
50) Isopropylbenzene (Cumene)	10.848	105	4611092	203.06 ug/l	99
51) 1,1,2,2-Tetrachloroethane	11.073	83	788911	203.62 ug/l	99
52) 1,3-Dichlorobenzene	11.833	146	2534169	205.07 ug/l	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040104.D
Acq On : 1 Apr 2011 1:28 pm
Operator : cim
Sample : VSTD200
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 02 11:28:20 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

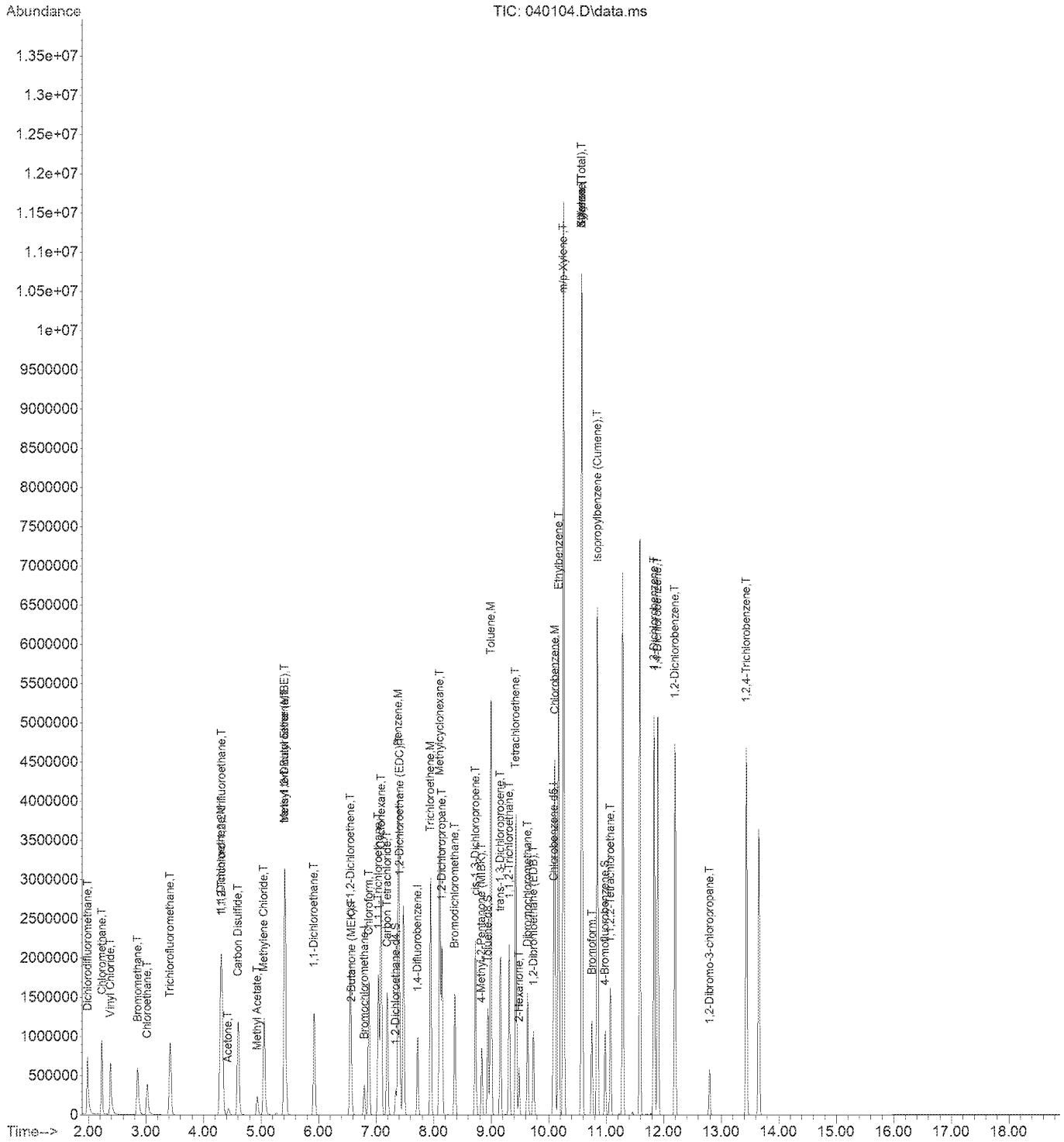
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
53) 1,4-Dichlorobenzene	11.900	146	2555384	205.09 ug/l	98
54) 1,2-Dichlorobenzene	12.198	146	2351429	204.53 ug/l	97
55) 1,2-Dibromo-3-chloropr...	12.795	75	126316	227.40 ug/l	98
56) 1,2,4-Trichlorobenzene	13.433	180	1883889	222.71 ug/l	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040104.D
Acq On : 1 Apr 2011 1:28 pm
Operator : cim
Sample : VSTD200
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 02 11:28:20 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040103.D
Acq On : 1 Apr 2011 1:00 pm
Operator : cim
Sample : VSTD300
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 02 11:27:29 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	136453	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	875270	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	807325	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	207741	51.28 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 102.56%		
38) Toluene-d8	8.944	98	965278	49.38 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 98.76%		
49) 4-Bromofluorobenzene	10.982	95	363833	50.50 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 101.00%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.984	85	1275361	316.61 ug/l	100
3) Chloromethane	2.228	50	1330572	298.35 ug/l	98
4) Vinyl Chloride	2.380	62	1338998	305.04 ug/l	99
5) Bromomethane	2.854	94	818991	287.94 ug/l	100
6) Chloroethane	3.018	64	806420	301.03 ug/l	95
7) Trichlorofluoromethane	3.420	101	1478269	266.41 ug/l	99
8) 1,1-Dichloroethene	4.296	96	1154423	298.60 ug/l	99
9) 1,1,2-Trichloro-1,2,2-...	4.320	101	1219896	313.25 ug/l	98
10) Acetone	4.430	43	189427	284.44 ug/l	98
11) Carbon Disulfide	4.600	76	3571993	295.94 ug/l	99
12) Methyl Acetate	4.929	43	491793	283.89 ug/l	99
13) Methylene Chloride	5.050	84	1246189	283.70 ug/l	98
14) trans-1,2-Dichloroethene	5.409	96	1348458	289.76 ug/l	99
15) Methyl tert-Butyl Ethe...	5.415	73	2980265	287.12 ug/l	99
16) 1,1-Dichloroethane	5.920	63	2022101	289.01 ug/l	99
17) cis-1,2-Dichloroethene	6.553	96	1460338	287.50 ug/l	99
18) 2-Butanone (MEK)	6.577	43	329160	294.79 ug/l	95
19) Chloroform	6.875	83	2023815	285.48 ug/l	100
21) 1,2-Dichloroethane (EDC)	7.411	62	1273044	432.20 ug/l	97
23) 1,1,1-Trichloroethane	7.040	97	1752347	296.06 ug/l	100
24) Cyclohexane	7.082	56	2084265	312.18 ug/l	98
25) Carbon Tetrachloride	7.192	117	1514920	318.56 ug/l	100
26) Benzene	7.386	78	5307071	279.74 ug/l	99
27) Trichloroethene	7.946	130	1663045	286.57 ug/l	99
28) Methylcyclohexane	8.104	83	2448343	313.26 ug/l	99
29) 1,2-Dichloropropane	8.141	63	1207854	284.78 ug/l	99
30) Bromodichloromethane	8.366	83	1492153	293.23 ug/l	99
31) cis-1,3-Dichloropropene	8.725	75	1918165	296.15 ug/l	100
32) trans-1,3-Dichloropropene	9.163	75	1705396	304.06 ug/l	99
33) 1,1,2-Trichloroethane	9.315	97	1080692	286.58 ug/l	100
34) Dibromochloromethane	9.631	129	1282067	310.97 ug/l	100
35) Bromoform	10.751	173	927630	332.69 ug/l	99
37) 4-Methyl-2-Pentanone (...	8.834	43	728145	296.31 ug/l	100
39) Toluene	8.999	91	5901292	275.32 ug/l	97
40) Tetrachloroethene	9.431	164	1549286	293.01 ug/l	99
41) 2-Hexanone	9.485	43	477695	301.85 ug/l	100
42) 1,2-Dibromoethane (EDB)	9.735	107	1083325	283.91 ug/l	100
43) Chlorobenzene	10.106	112	4165951	278.45 ug/l	100
44) Ethylbenzene	10.173	106	2380950	285.29 ug/l	94
45) m/p-Xylene	10.258	106	5693906	554.95 ug/l	95
46) o-Xylene	10.574	106	2802948	278.35 ug/l	97
47) Xylenes (Total)	10.574	106	2802948	278.35 ug/l	97
48) Styrene	10.580	104	4707852	284.78 ug/l	98
50) Isopropylbenzene (Cumene)	10.848	105	6923185	284.24 ug/l	97
51) 1,1,2,2-Tetrachloroethane	11.073	83	1185158	285.18 ug/l	99
52) 1,3-Dichlorobenzene	11.834	146	3855232	290.86 ug/l	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040103.D
Acq On : 1 Apr 2011 1:00 pm
Operator : cim
Sample : VSTD300
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 02 11:27:29 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

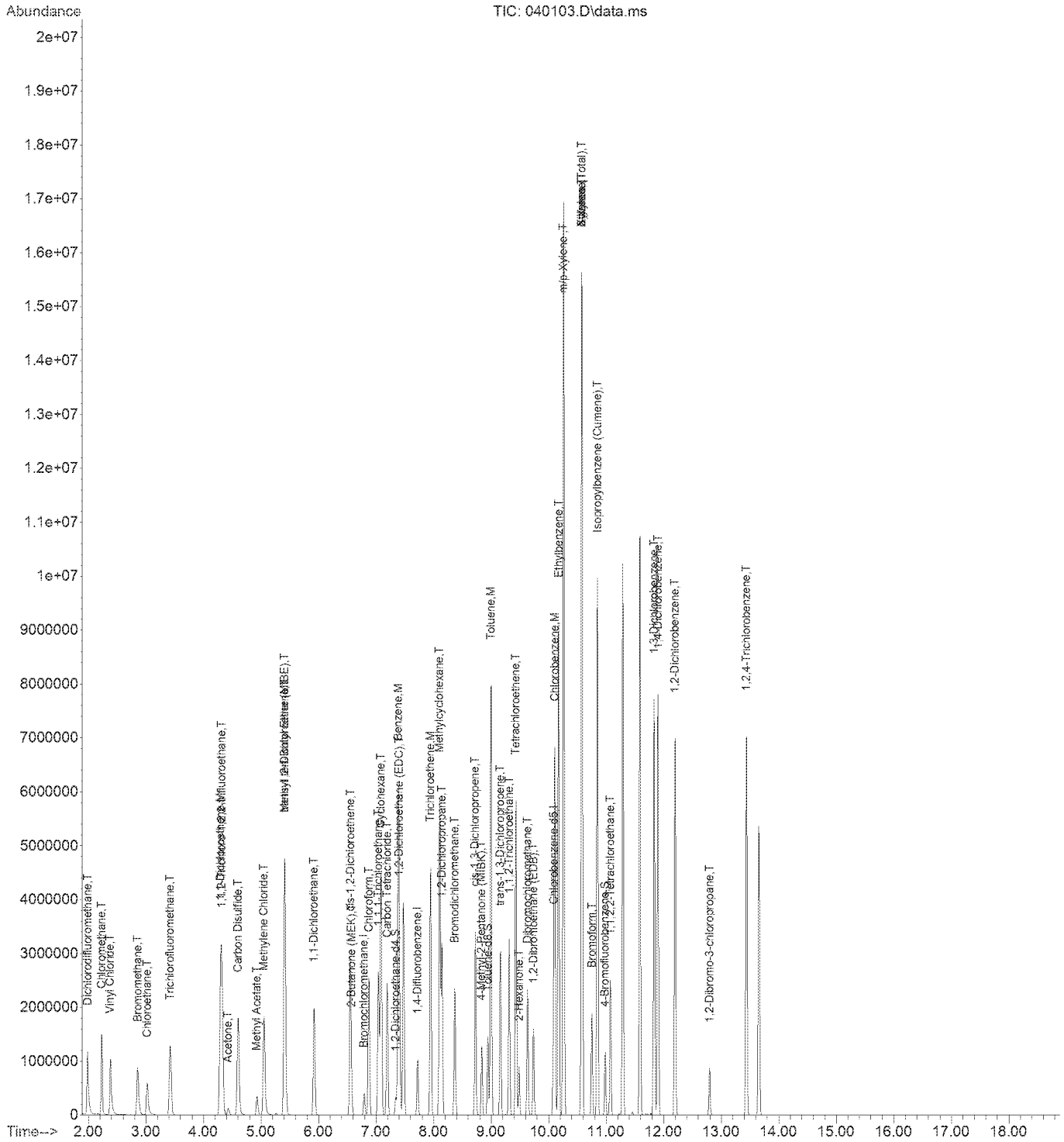
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
53) 1,4-Dichlorobenzene	11.901	146	3885586	290.74 ug/l	98
54) 1,2-Dichlorobenzene	12.199	146	3575912	289.98 ug/l	98
55) 1,2-Dibromo-3-chloropr...	12.795	75	188159	315.80 ug/l	96
56) 1,2,4-Trichlorobenzene	13.440	180	2870490	316.38 ug/l	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040103.D
Acq On : 1 Apr 2011 1:00 pm
Operator : cim
Sample : VSTD300
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 02 11:27:29 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040106.D
Acq On : 1 Apr 2011 2:25 pm
Operator : cim
Sample : VSTD050
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 02 11:28:59 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 230%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	1.476	1.577	-6.8	100	0.00
3	T	Chloromethane	1.634	1.673	-2.4	100	0.00
4	T	Vinyl Chloride	1.608	1.687	-4.9	100	0.00
5	T	Bromomethane	1.042	1.069	-2.6	100	0.00
6	T	Chloroethane	0.982	1.018	-3.7	100	0.00
7	T	Trichlorofluoromethane	2.033	2.309	-13.6	100	0.00
8	M	1,1-Dichloroethene	1.417	1.490	-5.2	100	0.00
9	T	1,1,2-Trichloro-1,2,2-trifl	1.427	1.527	-7.0	100	0.00
10	T	Acetone	0.244	0.250	-2.5	100	0.00
11	T	Carbon Disulfide	4.423	4.623	-4.5	100	0.00
12	T	Methyl Acetate	0.635	0.655	-3.1	100	0.00
13	T	Methylene Chloride	1.610	1.651	-2.5	100	0.00
14	T	trans-1,2-Dichloroethene	1.705	1.791	-5.0	100	0.00
15	T	Methyl tert-Butyl Ether (Mt	3.803	3.972	-4.4	100	0.00
16	T	1,1-Dichloroethane	2.564	2.668	-4.1	100	0.00
17	T	cis-1,2-Dichloroethene	1.861	1.931	-3.8	100	0.00
18	T	2-Butanone (MEK)	0.409	0.411	-0.5	100	0.00
19	T	Chloroform	2.598	2.683	-3.3	100	0.00
20	S	1,2-Dichloroethane-d4	1.484	1.458	1.8	100	0.00
21	T	1,2-Dichloroethane (EDC)	1.632	1.679	-2.9	100	0.00
22	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
23	T	1,1,1-Trichloroethane	0.338	0.360	-6.5	100	0.00
24	T	Cyclohexane	0.381	0.413	-8.4	100	0.00
25	T	Carbon Tetrachloride	0.272	0.289	-6.2	100	0.00
26	M	Benzene	1.084	1.145	-5.6	100	0.00
27	M	Trichloroethene	0.332	0.352	-6.0	100	0.00
28	T	Methylcyclohexane	0.446	0.490	-9.9	100	0.00
29	T	1,2-Dichloropropane	0.242	0.254	-5.0	100	0.00
30	T	Bromodichloromethane	0.291	0.302	-3.8	100	0.00
31	T	cis-1,3-Dichloropropene	0.370	0.387	-4.6	100	0.00
32	T	trans-1,3-Dichloropropene	0.320	0.334	-4.4	100	0.00
33	T	1,1,2-Trichloroethane	0.215	0.223	-3.7	100	0.00
34	T	Dibromochloromethane	0.236	0.245	-3.8	100	0.00
35	T	Bromoform	0.159	0.161	-1.3	100	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
37	T	4-Methyl-2-Pentanone (MIBK)	0.152	0.159	-4.6	100	0.00
38	S	Toluene-d8	1.211	1.215	-0.3	100	0.00
39	M	Toluene	1.327	1.412	-6.4	100	0.00
40	T	Tetrachloroethene	0.327	0.352	-7.6	100	0.00
41	T	2-Hexanone	0.098	0.102	-4.1	100	0.00
42	T	1,2-Dibromoethane (EDB)	0.236	0.248	-5.1	100	0.00
43	M	Chlorobenzene	0.927	0.976	-5.3	100	0.00
44	T	Ethylbenzene	0.517	0.547	-5.8	100	0.00
45	T	m/p-Xylene	0.635	0.679	-6.9	100	0.00
46	T	o-Xylene	0.624	0.660	-5.8	100	0.00
47	T	Xylenes (Total)	0.624	0.660	-5.8	100	0.00
48	T	Styrene	1.024	1.094	-6.8	100	0.00
49	S	4-Bromofluorobenzene	0.446	0.446	0.0	100	0.00
50	T	Isopropylbenzene (Cumene)	1.508	1.615	-7.1	100	0.00
51	T	1,1,2,2-Tetrachloroethane	0.257	0.269	-4.7	100	0.00
52	T	1,3-Dichlorobenzene	0.821	0.859	-4.6	100	0.00
53	T	1,4-Dichlorobenzene	0.828	0.864	-4.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040106.D
Acq On : 1 Apr 2011 2:25 pm
Operator : cim
Sample : VSTD050
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 02 11:28:59 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 230%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54 T	1,2-Dichlorobenzene	0.764	0.797	-4.3	100	0.00
55 T	1,2-Dibromo-3-chloropropane	0.037	0.038	-2.7	100	0.00
56 T	1,2,4-Trichlorobenzene	0.562	0.590	-5.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040106.D
Acq On : 1 Apr 2011 2:25 pm
Operator : cim
Sample : VSTD050
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 02 11:28:59 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.797	128	125471	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	783024	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	702425	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	182910	49.10 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 98.20%		
38) Toluene-d8	8.944	98	853162	50.17 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.34%		
49) 4-Bromofluorobenzene	10.982	95	313572	50.02 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 100.04%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.984	85	197807	53.40 ug/l	100
3) Chloromethane	2.234	50	209922	51.19 ug/l	100
4) Vinyl Chloride	2.380	62	211682	52.44 ug/l	100
5) Bromomethane	2.860	94	134187	51.31 ug/l	100
6) Chloroethane	3.025	64	127691	51.84 ug/l	100
7) Trichlorofluoromethane	3.420	101	289698	56.78 ug/l	100
8) 1,1-Dichloroethene	4.296	96	186983	52.60 ug/l	100
9) 1,1,2-Trichloro-1,2,2-...	4.321	101	191650	53.52 ug/l	100
10) Acetone	4.436	43	31319	51.14 ug/l	100
11) Carbon Disulfide	4.600	76	580054	52.26 ug/l	100
12) Methyl Acetate	4.935	43	82211	51.61 ug/l	100
13) Methylene Chloride	5.051	84	207168	51.29 ug/l	100
14) trans-1,2-Dichloroethene	5.409	96	224710	52.51 ug/l	100
15) Methyl tert-Butyl Ethe...	5.416	73	498423	52.22 ug/l	100
16) 1,1-Dichloroethane	5.927	63	334792	52.04 ug/l	100
17) cis-1,2-Dichloroethene	6.553	96	242288	51.88 ug/l	100
18) 2-Butanone (MEK)	6.578	43	51576	50.23 ug/l	100
19) Chloroform	6.876	83	336597	51.64 ug/l	100
21) 1,2-Dichloroethane (EDC)	7.411	62	210693	62.32 ug/l	98
23) 1,1,1-Trichloroethane	7.040	97	281658	53.19 ug/l	100
24) Cyclohexane	7.082	56	323239	54.12 ug/l	100
25) Carbon Tetrachloride	7.192	117	226195	53.17 ug/l	100
26) Benzene	7.387	78	896191	52.80 ug/l	100
27) Trichloroethene	7.946	130	275299	53.03 ug/l	100
28) Methylcyclohexane	8.104	83	383435	54.84 ug/l	100
29) 1,2-Dichloropropane	8.141	63	198685	52.36 ug/l	100
30) Bromodichloromethane	8.366	83	236645	51.98 ug/l	100
31) cis-1,3-Dichloropropene	8.725	75	303310	52.34 ug/l	100
32) trans-1,3-Dichloropropene	9.163	75	261766	52.17 ug/l	100
33) 1,1,2-Trichloroethane	9.315	97	174966	51.86 ug/l	100
34) Dibromochloromethane	9.631	129	191809	52.00 ug/l	100
35) Bromoform	10.751	173	126434	50.69 ug/l	100
37) 4-Methyl-2-Pentanone (...	8.835	43	111642	52.22 ug/l	100
39) Toluene	8.993	91	991911	53.19 ug/l	100
40) Tetrachloroethene	9.431	164	247519	53.80 ug/l	100
41) 2-Hexanone	9.485	43	71643	52.03 ug/l	100
42) 1,2-Dibromoethane (EDB)	9.735	107	174174	52.46 ug/l	100
43) Chlorobenzene	10.106	112	685507	52.66 ug/l	100
44) Ethylbenzene	10.173	106	384355	52.93 ug/l	100
45) m/p-Xylene	10.258	106	953589	106.82 ug/l	100
46) o-Xylene	10.568	106	463705	52.93 ug/l	100
47) Xylenes (Total)	10.568	106	463705	52.93 ug/l	100
48) Styrene	10.581	104	768504	53.43 ug/l	100
50) Isopropylbenzene (Cumene)	10.848	105	1134173	53.52 ug/l	100
51) 1,1,2,2-Tetrachloroethane	11.073	83	189040	52.28 ug/l	100
52) 1,3-Dichlorobenzene	11.834	146	603346	52.32 ug/l	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040106.D
Acq On : 1 Apr 2011 2:25 pm
Operator : cim
Sample : VSTD050
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 02 11:28:59 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

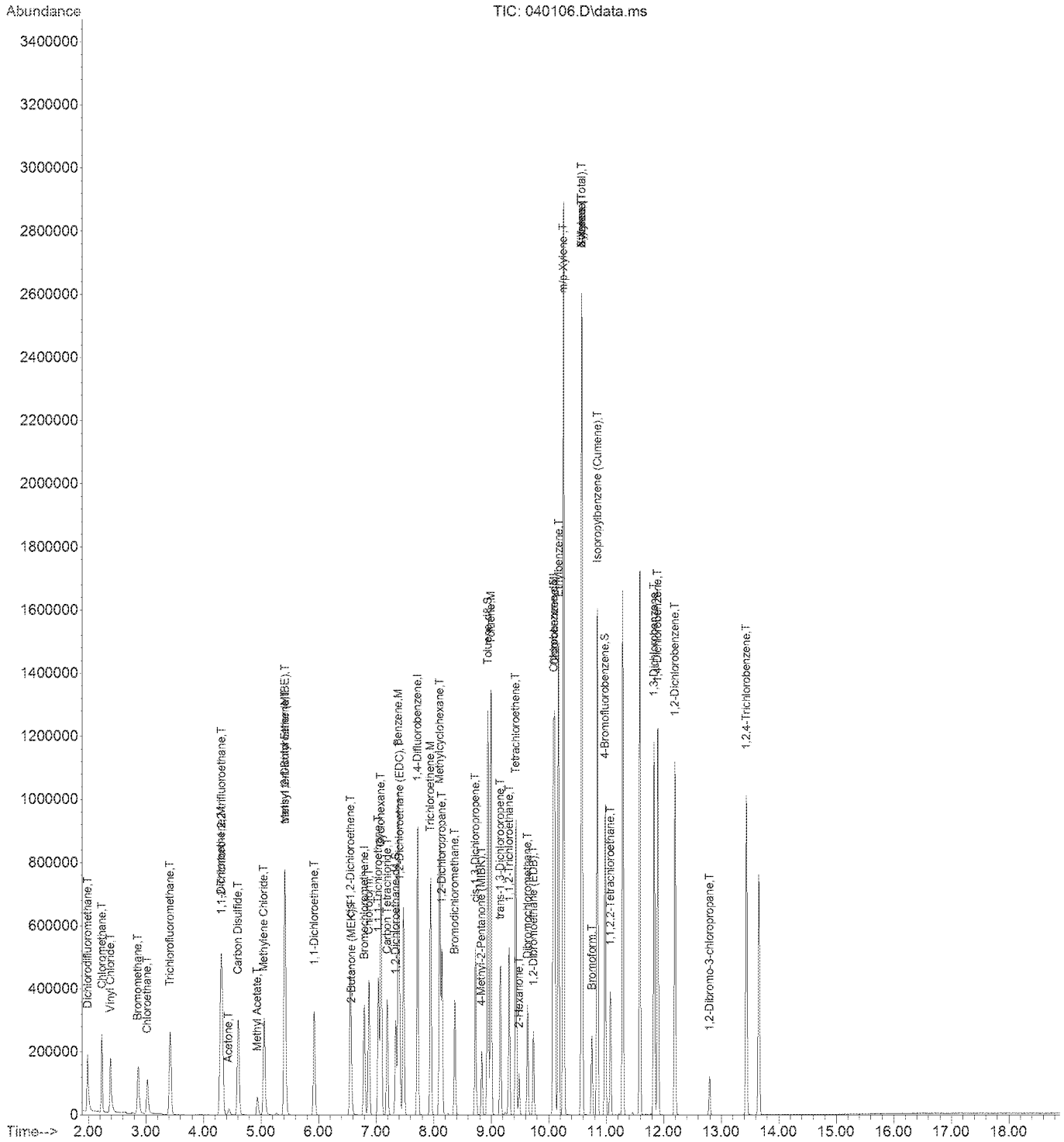
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
53) 1,4-Dichlorobenzene	11.895	146	607043	52.21 ug/l	100
54) 1,2-Dichlorobenzene	12.193	146	559788	52.17 ug/l	100
55) 1,2-Dibromo-3-chloropr...	12.795	75	26545	51.21 ug/l	100
56) 1,2,4-Trichlorobenzene	13.434	180	414289	52.48 ug/l	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50401L.jml\
Data File : 040106.D
Acq On : 1 Apr 2011 2:25 pm
Operator : cim
Sample : VSTD050
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 02 11:28:59 2011
Quant Title :
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060203.D
Acq On : 2 Jun 2011 11:25 am
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 09:55:14 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 230%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	117	0.00
2	T	Dichlorodifluoromethane	1.476	1.374	6.9	102	0.00
3	T	Chloromethane	1.634	1.549	5.2	109	0.00
4	T	Vinyl Chloride	1.608	1.591	1.1	111	0.00
5	T	Bromomethane	1.042	1.048	-0.6	115	0.00
6	T	Chloroethane	0.982	1.045	-6.4	121	0.00
7	T	Trichlorofluoromethane	2.033	2.173	-6.9	111	0.00
8	M	1,1-Dichloroethene	1.417	1.354	4.4	107	0.00
9	T	1,1,2-Trichloro-1,2,2-trifl	1.427	1.442	-1.1	111	0.00
10	T	Acetone	0.244	0.229	6.1	108	0.00
11	T	Carbon Disulfide	4.423	4.165	5.8	106	0.00
12	T	Methyl Acetate	0.635	0.637	-0.3	114	0.00
13	T	Methylene Chloride	1.610	1.586	1.5	113	0.00
14	T	trans-1,2-Dichloroethene	1.705	1.661	2.6	109	0.00
15	T	Methyl tert-Butyl Ether (Mt	3.803	3.724	2.1	110	0.00
16	T	1,1-Dichloroethane	2.564	2.501	2.5	110	0.00
17	T	cis-1,2-Dichloroethene	1.861	1.791	3.8	109	0.00
18	T	2-Butanone (MEK)	0.409	0.382	6.6	109	0.00
19	T	Chloroform	2.598	2.542	2.2	111	0.00
20	S	1,2-Dichloroethane-d4	1.484	1.481	0.2	119	0.00
21	T	1,2-Dichloroethane (EDC)	1.632	1.637	-0.3	115	0.00
22	I	1,4-Difluorobenzene	1.000	1.000	0.0	119	0.00
23	T	1,1,1-Trichloroethane	0.338	0.338	0.0	112	0.00
24	T	Cyclohexane	0.381	0.377	1.0	108	0.00
25	T	Carbon Tetrachloride	0.272	0.278	-2.2	114	0.00
26	M	Benzene	1.084	1.080	0.4	112	0.00
27	M	Trichloroethene	0.332	0.330	0.6	111	0.00
28	T	Methylcyclohexane	0.446	0.447	-0.2	108	0.00
29	T	1,2-Dichloropropane	0.242	0.240	0.8	112	0.00
30	T	Bromodichloromethane	0.291	0.278	4.5	109	0.00
31	T	cis-1,3-Dichloropropene	0.370	0.355	4.1	109	0.00
32	T	trans-1,3-Dichloropropene	0.320	0.313	2.2	111	0.00
33	T	1,1,2-Trichloroethane	0.215	0.215	0.0	114	0.00
34	T	Dibromochloromethane	0.236	0.231	2.1	112	0.00
35	T	Bromoform	0.159	0.160	-0.6	118	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	120	0.00
37	T	4-Methyl-2-Pentanone (MIBK)	0.152	0.145	4.6	110	0.00
38	S	Toluene-d8	1.211	1.197	1.2	118	0.00
39	M	Toluene	1.327	1.313	1.1	112	0.00
40	T	Tetrachloroethene	0.327	0.330	-0.9	113	0.00
41	T	2-Hexanone	0.098	0.090	8.2	106	0.00
42	T	1,2-Dibromoethane (EDB)	0.236	0.227	3.8	110	0.00
43	M	Chlorobenzene	0.927	0.933	-0.6	115	0.00
44	T	Ethylbenzene	0.517	0.524	-1.4	115	0.00
45	T	m/p-Xylene	0.635	0.647	-1.9	115	0.00
46	T	o-Xylene	0.624	0.633	-1.4	115	0.00
47	T	Xylenes (Total)	0.624	0.633	-1.4	115	0.00
48	T	Styrene	1.024	1.037	-1.3	114	0.00
49	S	4-Bromofluorobenzene	0.446	0.438	1.8	118	0.00
50	T	Isopropylbenzene (Cumene)	1.508	1.511	-0.2	112	0.00
51	T	1,1,2,2-Tetrachloroethane	0.257	0.255	0.8	114	0.00
52	T	1,3-Dichlorobenzene	0.821	0.801	2.4	112	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060203.D
Acq On : 2 Jun 2011 11:25 am
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 09:55:14 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 230%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53 T	1,4-Dichlorobenzene	0.828	0.812	1.9	113	0.00
54 T	1,2-Dichlorobenzene	0.764	0.751	1.7	113	0.00
55 T	1,2-Dibromo-3-chloropropane	0.037	0.032	13.5	101	0.00
56 T	1,2,4-Trichlorobenzene	0.562	0.488	13.2	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060203.D
Acq On : 2 Jun 2011 11:25 am
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 09:55:14 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	147426	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	928785	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	844100	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	218313	49.88 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery =	99.76%	
38) Toluene-d8	8.944	98	1010424	49.44 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery =	98.88%	
49) 4-Bromofluorobenzene	10.982	95	369724	49.08 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery =	98.16%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.978	85	202578	46.55 ug/l	100
3) Chloromethane	2.228	50	228336	47.39 ug/l	99
4) Vinyl Chloride	2.380	62	234601	49.47 ug/l	100
5) Bromomethane	2.860	94	154570	50.30 ug/l	98
6) Chloroethane	3.019	64	154031	53.22 ug/l	94
7) Trichlorofluoromethane	3.414	101	320284	53.42 ug/l	98
8) 1,1-Dichloroethene	4.296	96	199674	47.80 ug/l	98
9) 1,1,2-Trichloro-1,2,2-...	4.314	101	212584	50.53 ug/l	98
10) Acetone	4.436	43	33803	46.98 ug/l	96
11) Carbon Disulfide	4.600	76	614046	47.09 ug/l	99
12) Methyl Acetate	4.935	43	93906	50.17 ug/l	96
13) Methylene Chloride	5.051	84	233805	49.26 ug/l	99
14) trans-1,2-Dichloroethene	5.409	96	244842	48.70 ug/l	99
15) Methyl tert-Butyl Ethe...	5.416	73	549014	48.96 ug/l	98
16) 1,1-Dichloroethane	5.920	63	368779	48.78 ug/l	98
17) cis-1,2-Dichloroethene	6.553	96	264042	48.11 ug/l	99
18) 2-Butanone (MEK)	6.577	43	56290	46.66 ug/l	92
19) Chloroform	6.876	83	374748	48.93 ug/l	99
21) 1,2-Dichloroethane (EDC)	7.411	62	241272	50.13 ug/l	98
23) 1,1,1-Trichloroethane	7.040	97	314182	50.02 ug/l	100
24) Cyclohexane	7.082	56	349747	49.37 ug/l	100
25) Carbon Tetrachloride	7.192	117	258536	51.23 ug/l	99
26) Benzene	7.387	78	1003498	49.85 ug/l	99
27) Trichloroethene	7.946	130	306201	49.72 ug/l	98
28) Methylcyclohexane	8.104	83	415240	50.07 ug/l	98
29) 1,2-Dichloropropane	8.141	63	222988	49.55 ug/l	99
30) Bromodichloromethane	8.366	83	257786	47.74 ug/l	99
31) cis-1,3-Dichloropropene	8.725	75	329852	47.99 ug/l	100
32) trans-1,3-Dichloropropene	9.163	75	291078	48.91 ug/l	99
33) 1,1,2-Trichloroethane	9.315	97	199875	49.95 ug/l	100
34) Dibromochloromethane	9.631	129	214784	49.09 ug/l	98
35) Bromoform	10.751	173	148813	50.30 ug/l	97
37) 4-Methyl-2-Pentanone (...	8.834	43	122526	47.69 ug/l	98
39) Toluene	8.993	91	1108018	49.44 ug/l	98
40) Tetrachloroethene	9.431	164	278692	50.41 ug/l	100
41) 2-Hexanone	9.485	43	76141	46.02 ug/l	94
42) 1,2-Dibromoethane (EDB)	9.735	107	191821	48.08 ug/l	98
43) Chlorobenzene	10.106	112	787699	50.36 ug/l	100
44) Ethylbenzene	10.173	106	442680	50.73 ug/l	97
45) m/p-Xylene	10.258	106	1092202	101.81 ug/l	100
46) o-Xylene	10.568	106	534655	50.78 ug/l	98
47) Xylenes (Total)	10.568	106	534655	50.78 ug/l	98
48) Styrene	10.580	104	875216	50.64 ug/l	98
50) Isopropylbenzene (Cumene)	10.848	105	1275781	50.10 ug/l	99
51) 1,1,2,2-Tetrachloroethane	11.073	83	215374	49.57 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060203.D
Acq On : 2 Jun 2011 11:25 am
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 09:55:14 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

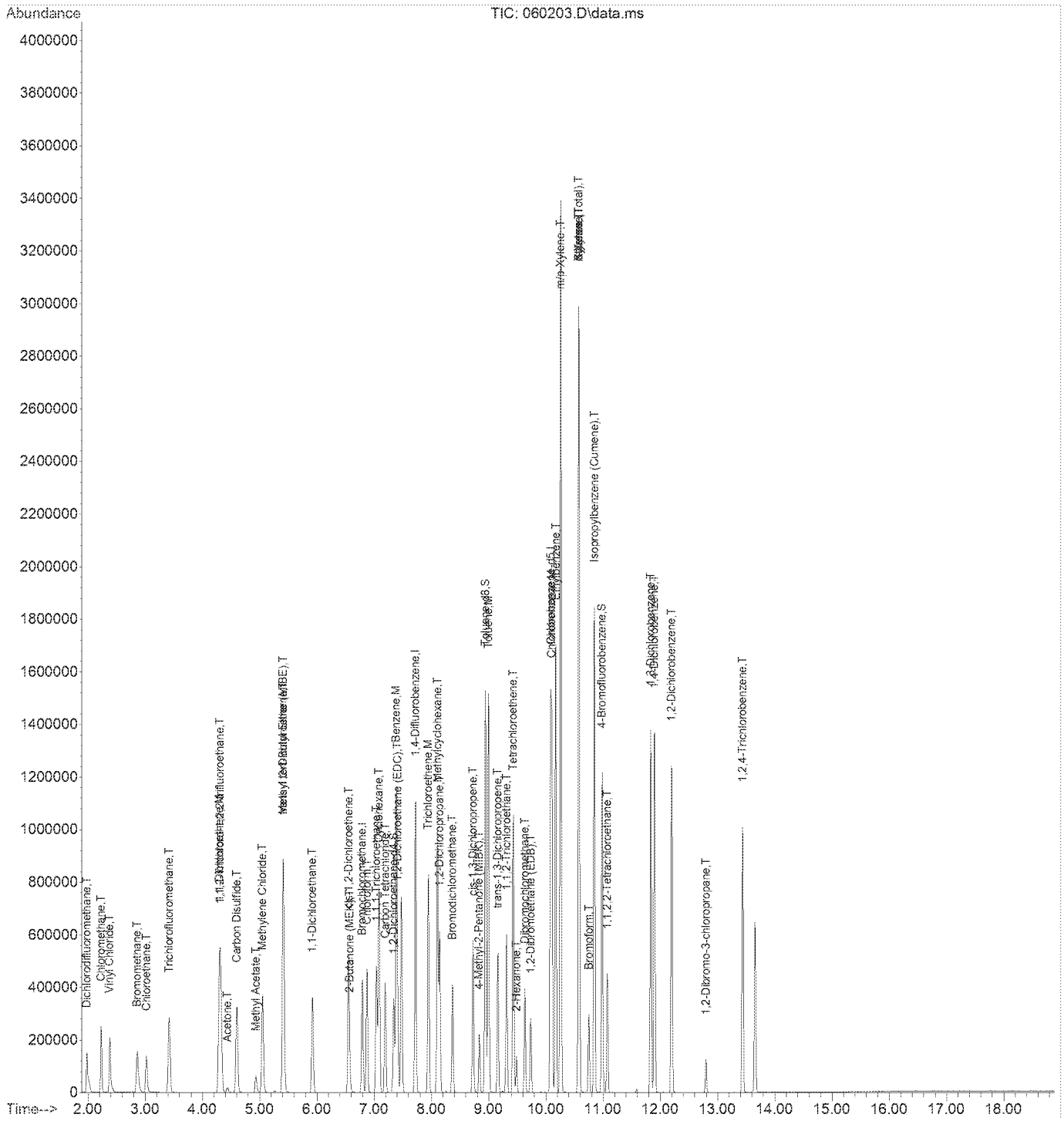
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3-Dichlorobenzene	11.834	146	676083	48.78 ug/l	99
53) 1,4-Dichlorobenzene	11.895	146	685116	49.03 ug/l	100
54) 1,2-Dichlorobenzene	12.199	146	633963	49.17 ug/l	96
55) 1,2-Dibromo-3-chloropr...	12.795	75	26845	43.09 ug/l	95
56) 1,2,4-Trichlorobenzene	13.440	180	411717	43.40 ug/l	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060203.D
Acq On : 2 Jun 2011 11:25 am
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 09:55:14 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060204.D
Acq On : 2 Jun 2011 11:57 am
Operator : jml
Sample : VSTD005
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 09:55:18 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.790	128	148400	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	916727	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	833433	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	219007	49.71 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery =	99.42%	
38) Toluene-d8	8.944	98	998974	49.51 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery =	99.02%	
49) 4-Bromofluorobenzene	10.982	95	351720	47.29 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery =	94.58%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.984	85	14713	3.36 ug/l	100
3) Chloromethane	2.234	50	19396	4.00 ug/l	97
4) Vinyl Chloride	2.380	62	18393	3.85 ug/l	92
5) Bromomethane	2.860	94	14001	4.53 ug/l	95
6) Chloroethane	3.019	64	12374	4.25 ug/l	91
7) Trichlorofluoromethane	3.414	101	24383	4.04 ug/l	99
8) 1,1-Dichloroethene	4.296	96	15380	3.66 ug/l	99
9) 1,1,2-Trichloro-1,2,2-...	4.320	101	15660	3.70 ug/l	89
10) Acetone	4.448	43	2927	4.04 ug/l	92
11) Carbon Disulfide	4.600	76	50231	3.83 ug/l	97
12) Methyl Acetate	4.941	43	7672	4.07 ug/l	96
13) Methylene Chloride	5.050	84	21407	4.48 ug/l	88
14) trans-1,2-Dichloroethene	5.409	96	20093	3.97 ug/l	98
15) Methyl tert-Butyl Ethe...	5.415	73	41935	3.71 ug/l	98
16) 1,1-Dichloroethane	5.920	63	31717	4.17 ug/l	100
17) cis-1,2-Dichloroethene	6.553	96	22060	3.99 ug/l	99
18) 2-Butanone (MEK)	6.590	43	4976	4.10 ug/l	95
19) Chloroform	6.876	83	33447	4.34 ug/l	92
21) 1,2-Dichloroethane (EDC)	7.411	62	21712	4.48 ug/l	98
23) 1,1,1-Trichloroethane	7.040	97	24751	3.99 ug/l	94
24) Cyclohexane	7.088	56	22564	3.23 ug/l	98
25) Carbon Tetrachloride	7.192	117	18081	3.63 ug/l	97
26) Benzene	7.387	78	84576	4.26 ug/l	98
27) Trichloroethene	7.946	130	25290	4.16 ug/l	95
28) Methylcyclohexane	8.104	83	28136	3.44 ug/l	93
29) 1,2-Dichloropropane	8.141	63	19404	4.37 ug/l	97
30) Bromodichloromethane	8.372	83	21125	3.96 ug/l	95
31) cis-1,3-Dichloropropene	8.725	75	25772	3.80 ug/l	95
32) trans-1,3-Dichloropropene	9.163	75	22311	3.80 ug/l	92
33) 1,1,2-Trichloroethane	9.315	97	17762	4.50 ug/l	99
34) Dibromochloromethane	9.631	129	16489	3.82 ug/l	93
35) Bromoform	10.751	173	10268	3.52 ug/l	99
37) 4-Methyl-2-Pentanone (...	8.841	43	9171	3.62 ug/l	100
39) Toluene	8.993	91	92550	4.18 ug/l	97
40) Tetrachloroethene	9.431	164	21421	3.92 ug/l	98
41) 2-Hexanone	9.485	43	5258	3.22 ug/l	92
42) 1,2-Dibromoethane (EDB)	9.735	107	15938	4.05 ug/l	95
43) Chlorobenzene	10.106	112	68355	4.43 ug/l	98
44) Ethylbenzene	10.173	106	34404	3.99 ug/l	93
45) m/p-Xylene	10.258	106	84244	7.95 ug/l	98
46) o-Xylene	10.574	106	41013	3.95 ug/l	90
47) Xylenes (Total)	10.574	106	41013	3.95 ug/l	90
48) Styrene	10.580	104	63801	3.74 ug/l	96
50) Isopropylbenzene (Cumene)	10.848	105	89230	3.55 ug/l	99
51) 1,1,2,2-Tetrachloroethane	11.073	83	18267	4.26 ug/l	92

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060204.D
Acq On : 2 Jun 2011 11:57 am
Operator : jml
Sample : VSTD005
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 09:55:18 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

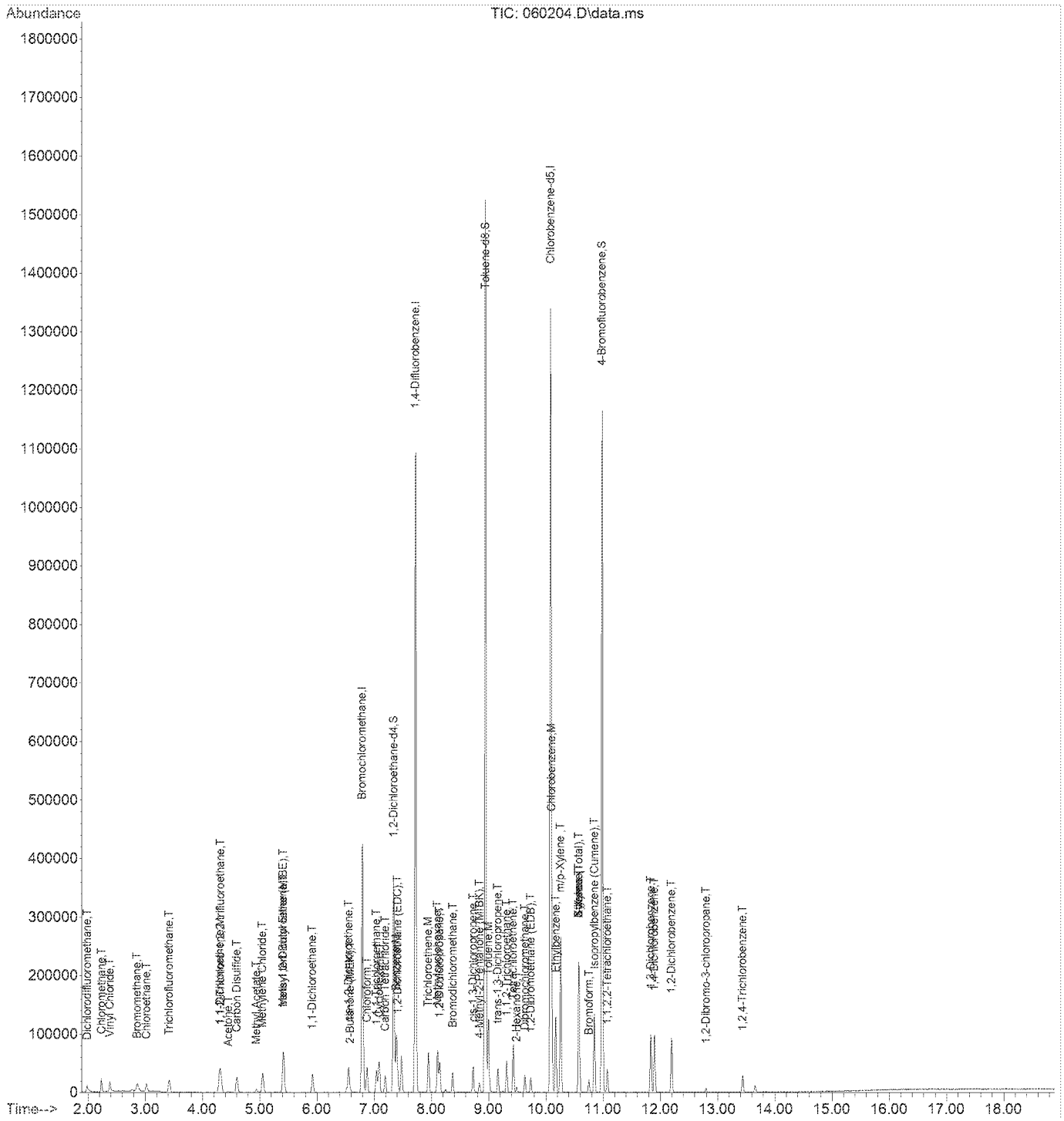
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3-Dichlorobenzene	11.834	146	50387	3.68 ug/l	98
53) 1,4-Dichlorobenzene	11.901	146	50370	3.65 ug/l	98
54) 1,2-Dichlorobenzene	12.199	146	47575	3.74 ug/l	96
55) 1,2-Dibromo-3-chloropr...	12.801	75	1717	2.79 ug/l #	86
56) 1,2,4-Trichlorobenzene	13.440	180	13046	1.39 ug/l	98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060204.D
Acq On : 2 Jun 2011 11:57 am
Operator : jml
Sample : VSTD005
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 09:55:18 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060220.D
Acq On : 2 Jun 2011 7:38 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 09:56:14 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 230%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	117	0.00
2	T	Dichlorodifluoromethane	1.476	1.247	15.5	92	0.00
3	T	Chloromethane	1.634	1.422	13.0	99	0.00
4	T	Vinyl Chloride	1.608	1.468	8.7	101	0.00
5	T	Bromomethane	1.042	0.891	14.5	97	0.01
6	T	Chloroethane	0.982	0.947	3.6	108	0.00
7	T	Trichlorofluoromethane	2.033	2.039	-0.3	103	0.00
8	M	1,1-Dichloroethene	1.417	1.242	12.4	97	0.00
9	T	1,1,2-Trichloro-1,2,2-trifl	1.427	1.322	7.4	101	0.00
10	T	Acetone	0.244	0.220	9.8	103	0.02
11	T	Carbon Disulfide	4.423	3.889	12.1	98	0.00
12	T	Methyl Acetate	0.635	0.568	10.6	101	0.00
13	T	Methylene Chloride	1.610	1.485	7.8	105	0.00
14	T	trans-1,2-Dichloroethene	1.705	1.545	9.4	101	0.00
15	T	Methyl tert-Butyl Ether (Mt	3.803	3.424	10.0	100	0.00
16	T	1,1-Dichloroethane	2.564	2.341	8.7	102	0.00
17	T	cis-1,2-Dichloroethene	1.861	1.658	10.9	100	0.00
18	T	2-Butanone (MEK)	0.409	0.377	7.8	107	0.00
19	T	Chloroform	2.598	2.389	8.0	104	0.00
20	S	1,2-Dichloroethane-d4	1.484	1.473	0.7	118	0.00
21	T	1,2-Dichloroethane (EDC)	1.632	1.535	5.9	107	0.00
22	I	1,4-Difluorobenzene	1.000	1.000	0.0	115	0.00
23	T	1,1,1-Trichloroethane	0.338	0.321	5.0	102	0.00
24	T	Cyclohexane	0.381	0.355	6.8	98	0.00
25	T	Carbon Tetrachloride	0.272	0.264	2.9	105	0.00
26	M	Benzene	1.084	1.032	4.8	103	0.00
27	M	Trichloroethene	0.332	0.317	4.5	103	0.00
28	T	Methylcyclohexane	0.446	0.423	5.2	99	0.00
29	T	1,2-Dichloropropane	0.242	0.232	4.1	105	0.00
30	T	Bromodichloromethane	0.291	0.268	7.9	102	0.00
31	T	cis-1,3-Dichloropropene	0.370	0.333	10.0	98	0.00
32	T	trans-1,3-Dichloropropene	0.320	0.298	6.9	102	0.00
33	T	1,1,2-Trichloroethane	0.215	0.205	4.7	105	0.00
34	T	Dibromochloromethane	0.236	0.215	8.9	100	0.00
35	T	Bromoform	0.159	0.146	8.2	104	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	116	0.00
37	T	4-Methyl-2-Pentanone (MIBK)	0.152	0.137	9.9	100	0.00
38	S	Toluene-d8	1.211	1.209	0.2	116	0.00
39	M	Toluene	1.327	1.251	5.7	103	0.00
40	T	Tetrachloroethene	0.327	0.311	4.9	103	0.00
41	T	2-Hexanone	0.098	0.086	12.2	98	0.00
42	T	1,2-Dibromoethane (EDB)	0.236	0.218	7.6	102	0.00
43	M	Chlorobenzene	0.927	0.896	3.3	107	0.00
44	T	Ethylbenzene	0.517	0.489	5.4	104	0.00
45	T	m/p-Xylene	0.635	0.616	3.0	105	0.00
46	T	o-Xylene	0.624	0.597	4.3	105	0.00
47	T	Xylenes (Total)	0.624	0.597	4.3	105	0.00
48	T	Styrene	1.024	0.980	4.3	104	0.00
49	S	4-Bromofluorobenzene	0.446	0.444	0.4	116	0.00
50	T	Isopropylbenzene (Cumene)	1.508	1.416	6.1	102	0.00
51	T	1,1,2,2-Tetrachloroethane	0.257	0.241	6.2	104	0.00
52	T	1,3-Dichlorobenzene	0.821	0.758	7.7	103	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060220.D
Acq On : 2 Jun 2011 7:38 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 09:56:14 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 230%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53 T	1,4-Dichlorobenzene	0.828	0.774	6.5	104	0.00
54 T	1,2-Dichlorobenzene	0.764	0.705	7.7	103	0.00
55 T	1,2-Dibromo-3-chloropropane	0.037	0.032	13.5	98	0.00
56 T	1,2,4-Trichlorobenzene	0.562	0.498	11.4	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060220.D
Acq On : 2 Jun 2011 7:38 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 09:56:14 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.797	128	146263	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	896858	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	816451	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	215449	49.61 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 99.22%		
38) Toluene-d8	8.944	98	987334	49.95 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.90%		
49) 4-Bromofluorobenzene	10.982	95	362479	49.75 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 99.50%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.984	85	182323	42.23 ug/l	100
3) Chloromethane	2.234	50	207939	43.50 ug/l	100
4) Vinyl Chloride	2.386	62	214694	45.63 ug/l	99
5) Bromomethane	2.873	94	130382	42.77 ug/l	98
6) Chloroethane	3.025	64	138476	48.23 ug/l	95
7) Trichlorofluoromethane	3.420	101	298242	50.14 ug/l	99
8) 1,1-Dichloroethene	4.302	96	181607	43.82 ug/l	99
9) 1,1,2-Trichloro-1,2,2-...	4.321	101	193367	46.32 ug/l	96
10) Acetone	4.454	43	32174	45.07 ug/l	96
11) Carbon Disulfide	4.600	76	568835	43.97 ug/l	99
12) Methyl Acetate	4.941	43	83080	44.74 ug/l	98
13) Methylene Chloride	5.057	84	217153	46.12 ug/l	99
14) trans-1,2-Dichloroethene	5.410	96	225908	45.29 ug/l	99
15) Methyl tert-Butyl Ethe...	5.422	73	500828	45.01 ug/l	98
16) 1,1-Dichloroethane	5.927	63	342409	45.66 ug/l	99
17) cis-1,2-Dichloroethene	6.553	96	242568	44.55 ug/l	95
18) 2-Butanone (MEK)	6.584	43	55161	46.09 ug/l	95
19) Chloroform	6.876	83	349484	45.99 ug/l	98
21) 1,2-Dichloroethane (EDC)	7.411	62	224505	47.02 ug/l	99
23) 1,1,1-Trichloroethane	7.040	97	288139	47.51 ug/l	98
24) Cyclohexane	7.089	56	318321	46.53 ug/l	97
25) Carbon Tetrachloride	7.192	117	236827	48.60 ug/l	98
26) Benzene	7.387	78	925204	47.59 ug/l	100
27) Trichloroethene	7.946	130	284344	47.82 ug/l	97
28) Methylcyclohexane	8.111	83	379009	47.33 ug/l	98
29) 1,2-Dichloropropane	8.147	63	207836	47.82 ug/l	99
30) Bromodichloromethane	8.366	83	240241	46.08 ug/l	97
31) cis-1,3-Dichloropropene	8.725	75	298707	45.01 ug/l	99
32) trans-1,3-Dichloropropene	9.163	75	266971	46.45 ug/l	100
33) 1,1,2-Trichloroethane	9.315	97	183560	47.50 ug/l	98
34) Dibromochloromethane	9.632	129	192760	45.63 ug/l	99
35) Bromoform	10.751	173	130988	45.85 ug/l	99
37) 4-Methyl-2-Pentanone (...	8.835	43	112042	45.08 ug/l	99
39) Toluene	8.999	91	1021354	47.12 ug/l	98
40) Tetrachloroethene	9.431	164	254086	47.52 ug/l	100
41) 2-Hexanone	9.486	43	70081	43.79 ug/l	99
42) 1,2-Dibromoethane (EDB)	9.735	107	177825	46.08 ug/l	99
43) Chlorobenzene	10.106	112	731615	48.35 ug/l	99
44) Ethylbenzene	10.173	106	399484	47.33 ug/l	99
45) m/p-Xylene	10.258	106	1005083	96.86 ug/l	98
46) o-Xylene	10.574	106	487818	47.90 ug/l	98
47) Xylenes (Total)	10.574	106	487818	47.90 ug/l	98
48) Styrene	10.581	104	800517	47.88 ug/l	100
50) Isopropylbenzene (Cumene)	10.848	105	1156494	46.95 ug/l	99
51) 1,1,2,2-Tetrachloroethane	11.073	83	196898	46.85 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060220.D
Acq On : 2 Jun 2011 7:38 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 09:56:14 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

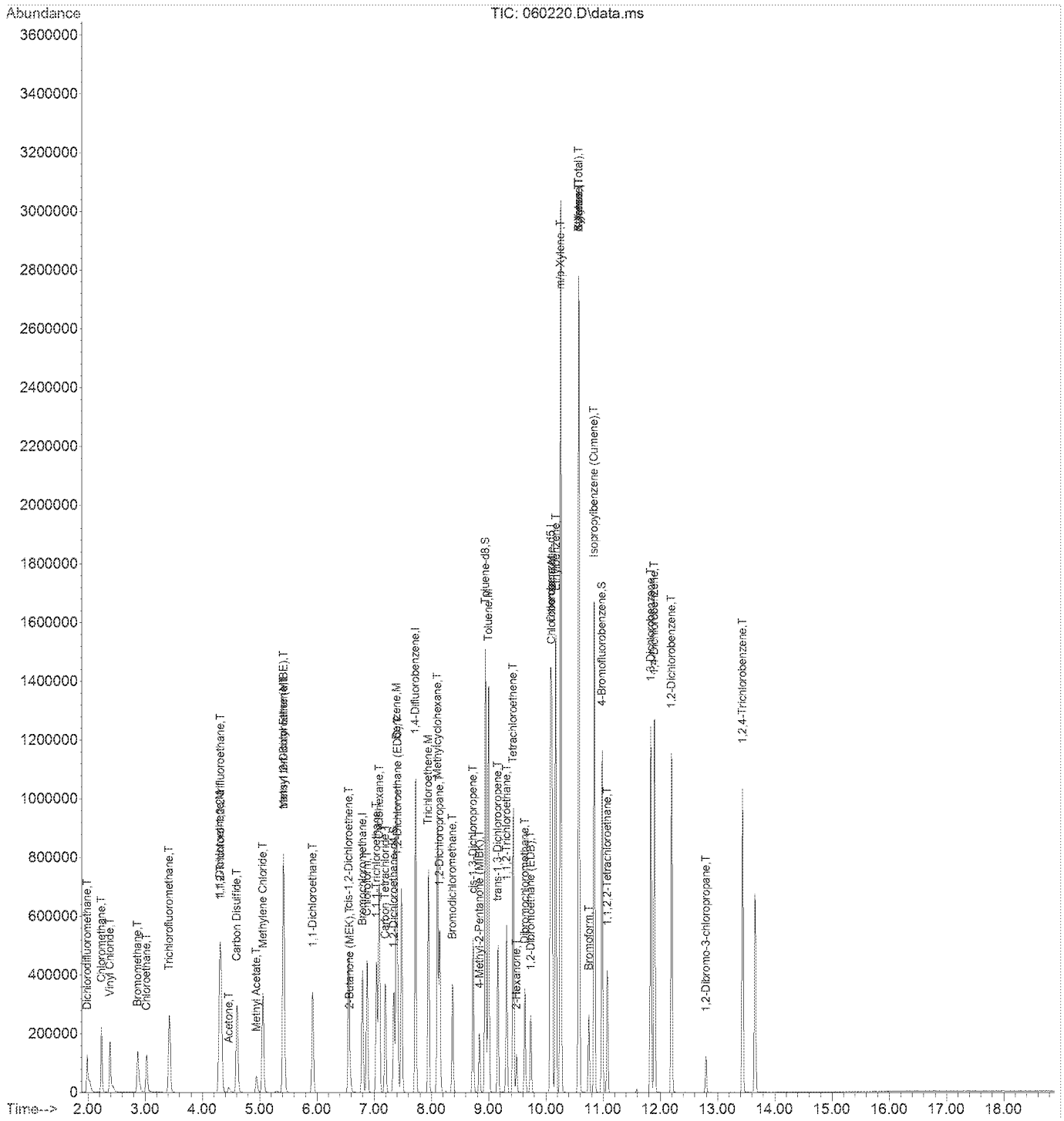
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3-Dichlorobenzene	11.834	146	618891	46.17 ug/l	99
53) 1,4-Dichlorobenzene	11.901	146	631653	46.74 ug/l	97
54) 1,2-Dichlorobenzene	12.193	146	575977	46.19 ug/l	99
55) 1,2-Dibromo-3-chloropr...	12.795	75	26074	43.27 ug/l	94
56) 1,2,4-Trichlorobenzene	13.434	180	406988	44.36 ug/l	97

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

Quantitation Report (Not Reviewed)

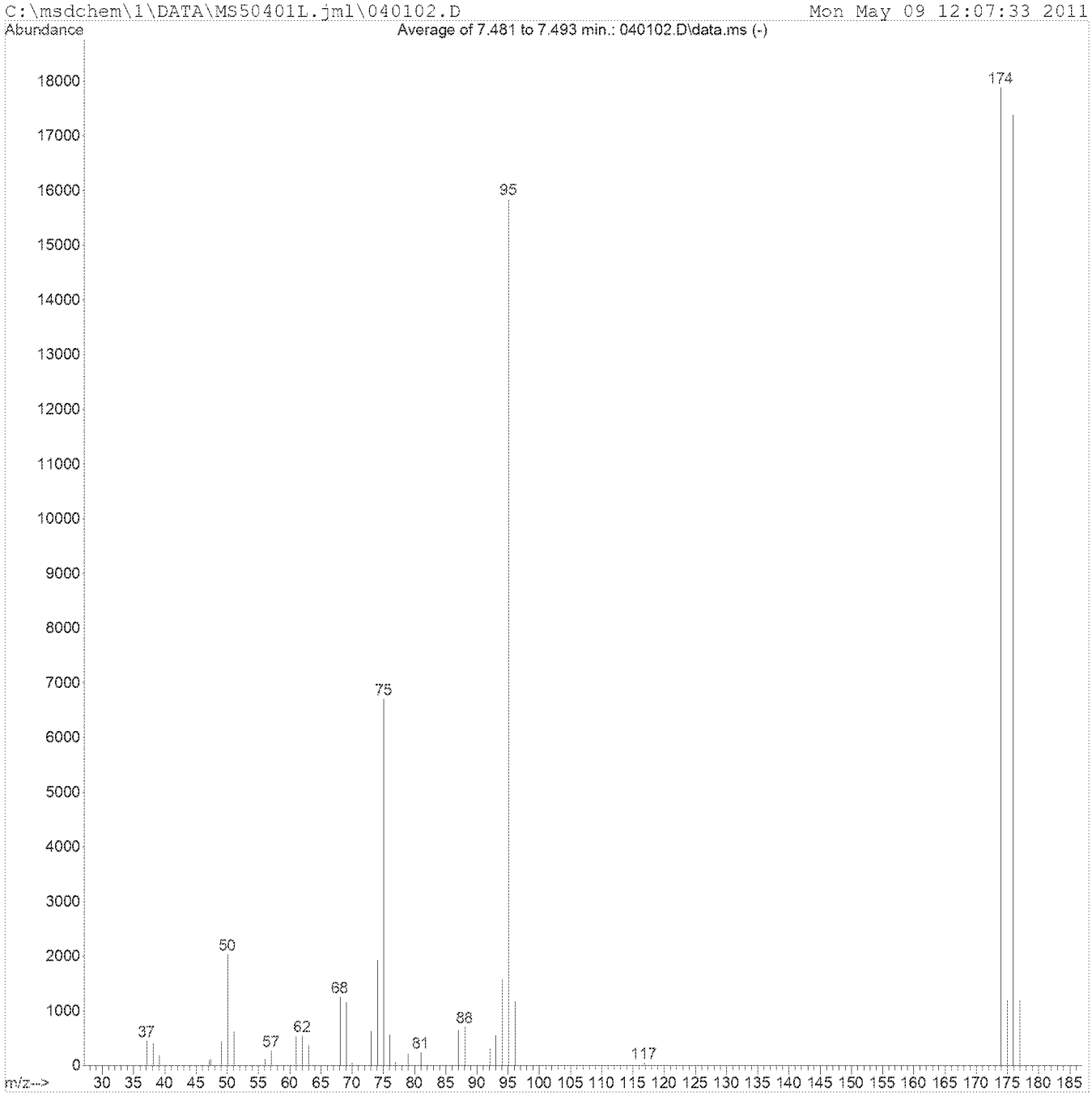
Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060220.D
Acq On : 2 Jun 2011 7:38 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 09:56:14 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



BFB CLP Results

C:\msdchem\1\DATA\MS50401L.jml\040102.D Mon May 09 12:07:33 2011



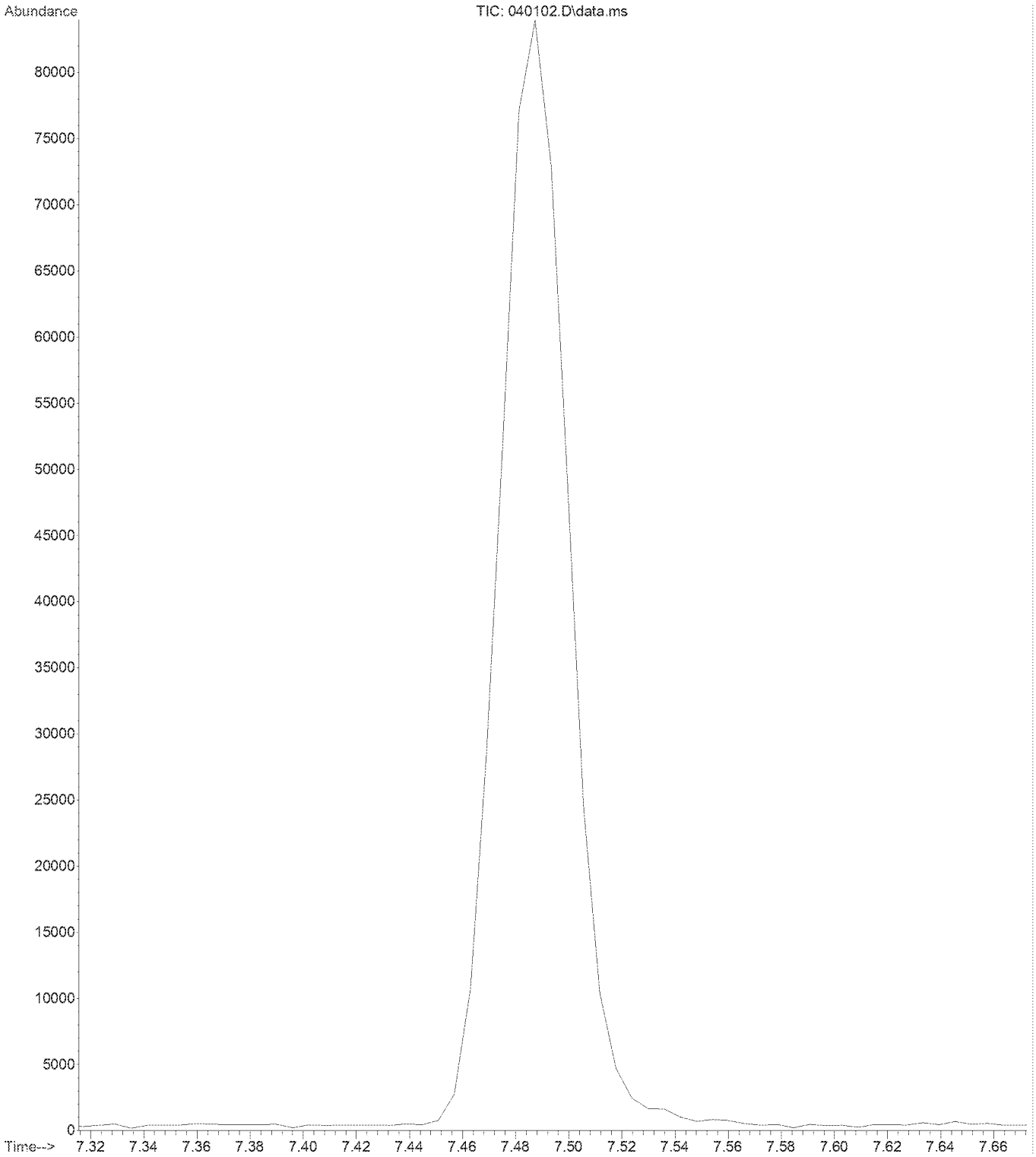
Peak Apex is scan: 938
Average of 3 scans: 937,938,939 minus background scan 918

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
50	95	8	40	12.8	PASS
75	95	30	66	42.3	PASS
95	95	100	100	100.0	PASS
96	95	5	9	7.4	PASS
173	174	0	2	0.0	PASS
174	95	50	120	112.8	PASS
175	174	4	9	6.8	PASS
176	174	93	101	97.2	PASS
177	176	5	9	6.8	PASS

Average of 7.481 to 7.493 min.: 040102.D\data.ms
BFB
Modified:subtracted

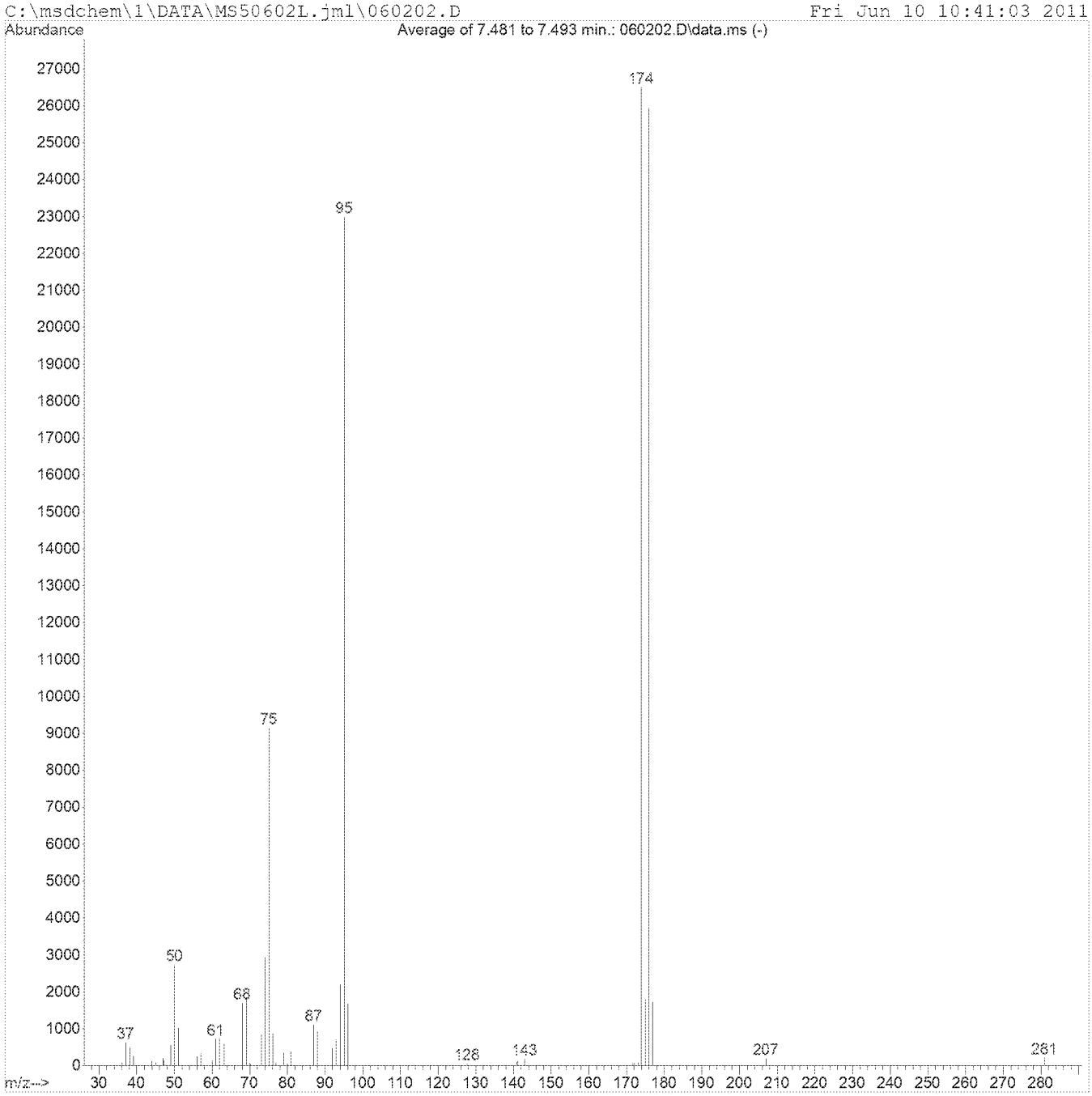
m/z	Abundance
37.10	447.0
38.10	396.0
39.15	188.0
47.10	91.0
47.30	115.0
49.10	439.0
50.05	2030.0
51.05	620.0
56.05	128.0
57.05	268.0
61.05	534.0
62.05	541.0
63.05	369.0
68.05	1256.0
69.05	1163.0
70.00	52.0
73.05	631.0
74.05	1923.0
75.10	6699.0
76.05	560.0
77.00	57.0
78.95	207.0
81.00	240.0
87.00	647.0
88.05	703.0
92.05	305.0
92.95	552.0
94.05	1586.0
95.10	15850.0
96.10	1175.0
116.80	50.0
173.95	17885.0
174.95	1209.0
175.95	17378.0
176.95	1188.0

```
File        :C:\msdchem\1\DATA\MS50401L.jml\040102.D
Operator    : cim
Acquired    :  1 Apr 2011  12:37 pm using AcqMethod BFB-HAND.M
Instrument  :   DEL5
Sample Name: BFB
Misc Info   : 1
Vial Number: 4
```



BFB CLP Results

C:\msdchem\1\DATA\MS50602L.jml\060202.D Fri Jun 10 10:41:03 2011



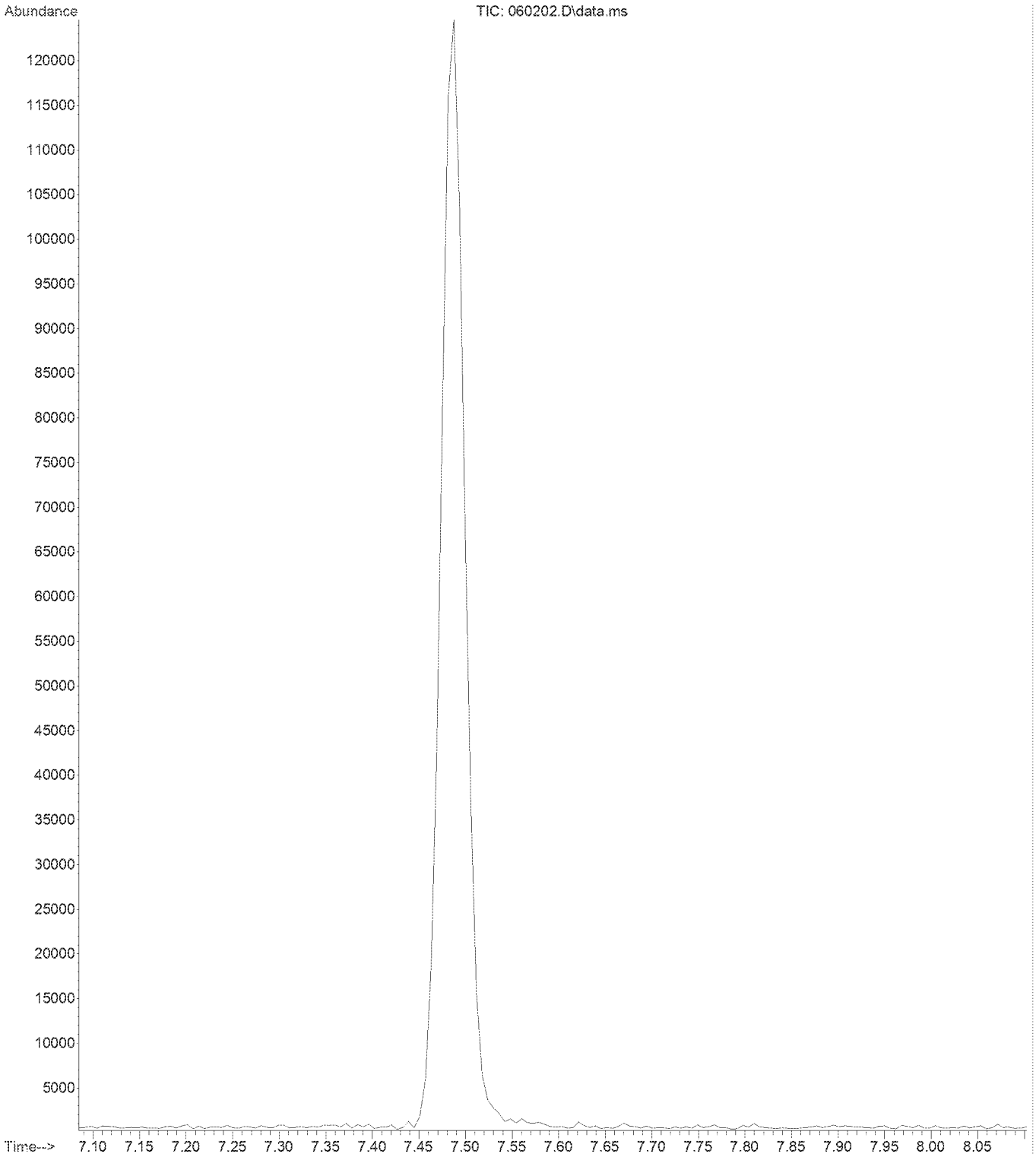
Peak Apex is scan: 938
Average of 3 scans: 937,938,939 minus background scan 918

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
50	95	8	40	11.9	PASS
75	95	30	66	39.8	PASS
95	95	100	100	100.0	PASS
96	95	5	9	7.3	PASS
173	174	0	2	0.3	PASS
174	95	50	120	115.3	PASS
175	174	4	9	6.8	PASS
176	174	93	101	97.9	PASS
177	176	5	9	6.6	PASS

Average of 7.481 to 7.493 min.: 060202.D\data.ms
BFB
Modified:subtracted

m/z	Abundance
36.10	73.0
37.05	618.0
38.10	496.0
39.15	250.0
39.95	7.0
43.90	110.0
45.00	109.0
47.00	193.0
47.25	128.0
49.05	553.0
50.05	2725.0
51.05	1010.0
56.10	236.0
57.05	325.0
60.00	123.0
61.05	713.0
62.00	744.0
63.15	594.0
68.05	1691.0
69.10	1840.0
69.90	60.0
70.20	63.0
73.10	845.0
74.05	2919.0
75.10	9140.0
76.05	863.0
76.90	69.0
78.95	341.0
79.90	50.0
80.95	389.0
87.00	1098.0
87.95	920.0
92.00	461.0
92.95	697.0
94.05	2198.0
95.10	22981.0
96.00	1669.0
127.70	51.0
140.90	87.0
141.10	137.0
143.00	174.0
171.70	71.0
172.10	62.0
173.00	72.0
173.90	26490.0
175.00	1791.0
175.90	25928.0
176.95	1717.0
207.05	189.0
280.95	208.0

```
File        :C:\msdchem\1\DATA\MS50602L.jml\060202.D
Operator    : jml
Acquired    :  2 Jun 2011  11:01 am using AcqMethod BFB-HAND.M
Instrument  :   DEL5
Sample Name: BFB
Misc Info   : 1
Vial Number: 8
```



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060205.D
Acq On : 2 Jun 2011 12:25 pm
Operator : jml
Sample : Method Blank
Misc : 1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 16:24:32 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.790	128	117343	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	665893	50.00	ug/l	0.00
36) Chlorobenzene-d5	10.082	117	651021	50.00	ug/l	0.00

System Monitoring Compounds

20) 1,2-Dichloroethane-d4	7.338	65	178314	51.18	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 102.36%			
38) Toluene-d8	8.944	98	856571	54.34	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 108.68%			
49) 4-Bromofluorobenzene	10.982	95	277123	47.70	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 95.40%			

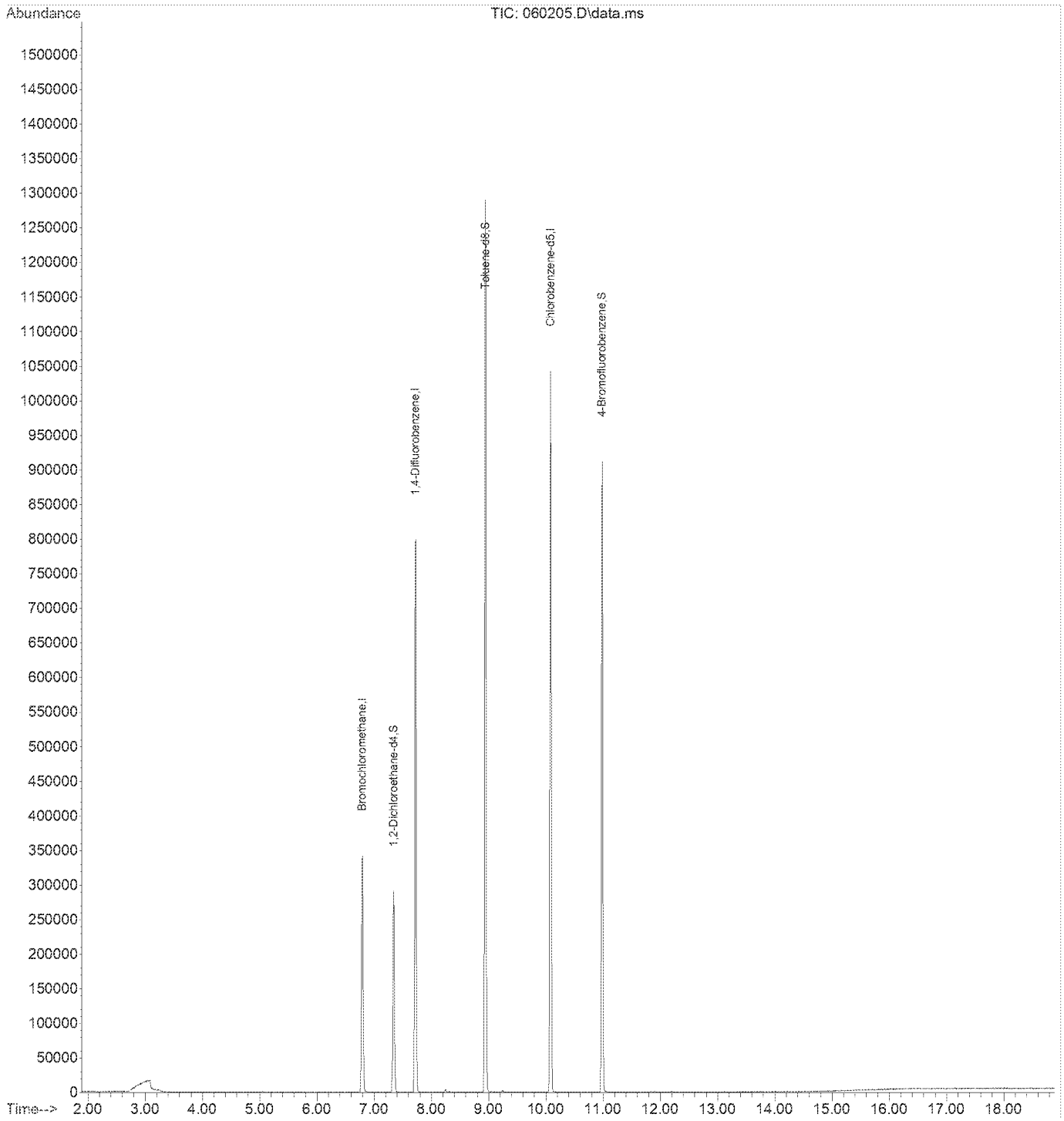
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060205.D
Acq On : 2 Jun 2011 12:25 pm
Operator : jml
Sample : Method Blank
Misc : 1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 16:24:32 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060205.D
Acq On : 2 Jun 2011 12:25 pm
Operator : jml
Sample : Method Blank
Misc : 1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50426L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 060205.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.790	799	807	818	rBV	341600	646715	30.85%	8.478%
2	7.338	890	897	909	rBV	290371	521850	24.90%	6.841%
3	7.721	953	960	969	rBV	798599	1317330	62.85%	17.269%
4	8.944	1153	1161	1173	rBV	1289147	2096050	100.00%	27.478%
5	10.082	1341	1348	1359	rBV	1042029	1653673	78.89%	21.679%
6	10.982	1489	1496	1505	rBV	911465	1392462	66.43%	18.254%

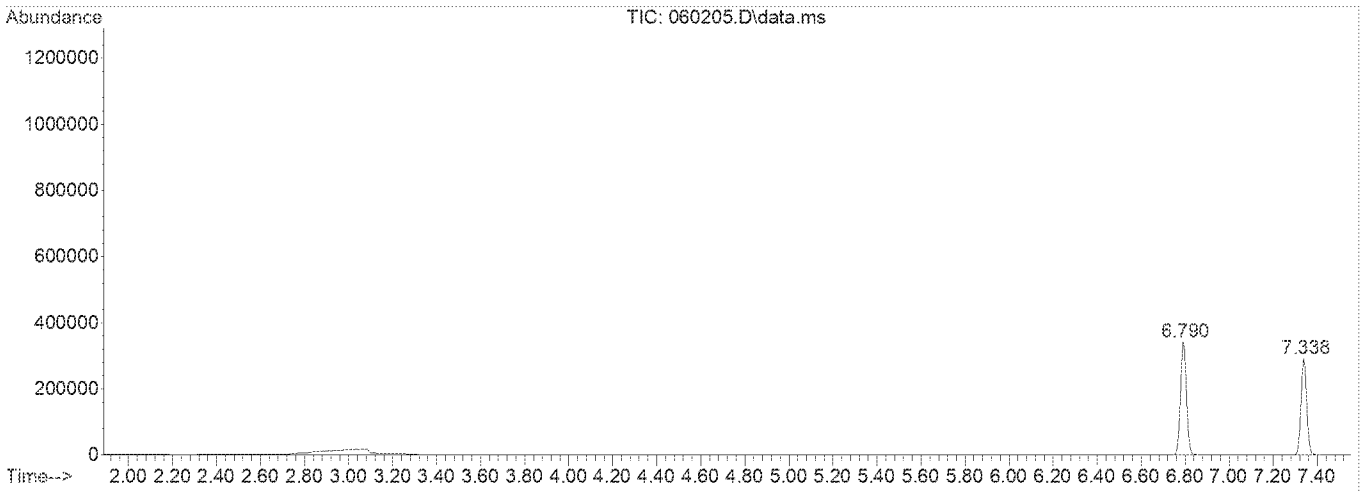
Sum of corrected areas: 7628080

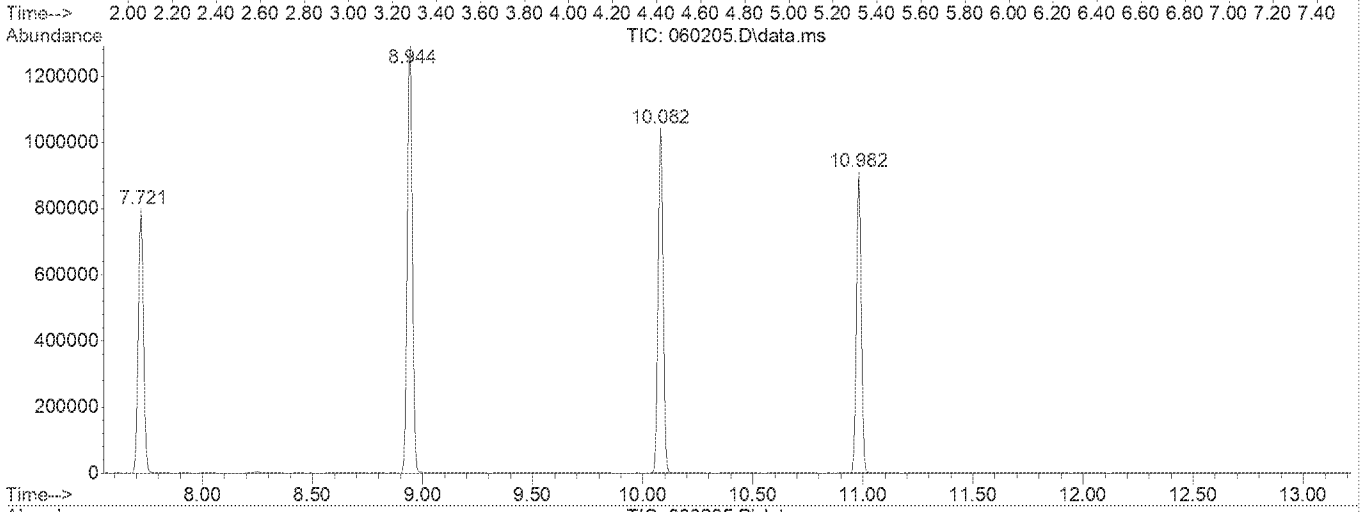
LSC Report - Integrated Chromatogram

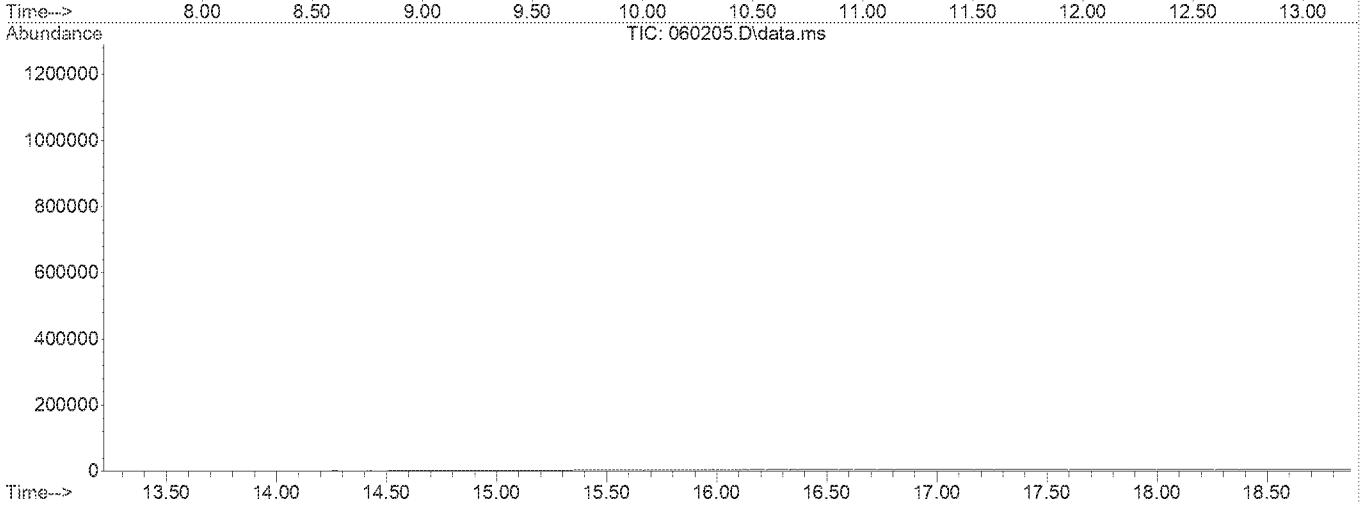
Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060205.D
Acq On : 2 Jun 2011 12:25 pm
Operator : jml
Sample : Method Blank
Misc : 1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\MS50602L.jml\\
Data File : 060205.D
Acq On    :  2 Jun 2011  12:25 pmm
Operator  : jml1
Sample    : Method Blankk
Misc      : 11
ALS Vial  : 11   Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50426L.MM
Quant Title  : VOA  Standards for 6 point calibrationn

TIC Library   : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060208.D
Acq On : 2 Jun 2011 1:52 pm
Operator : jml
Sample : LCS-S
Misc : 1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 08 16:28:29 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

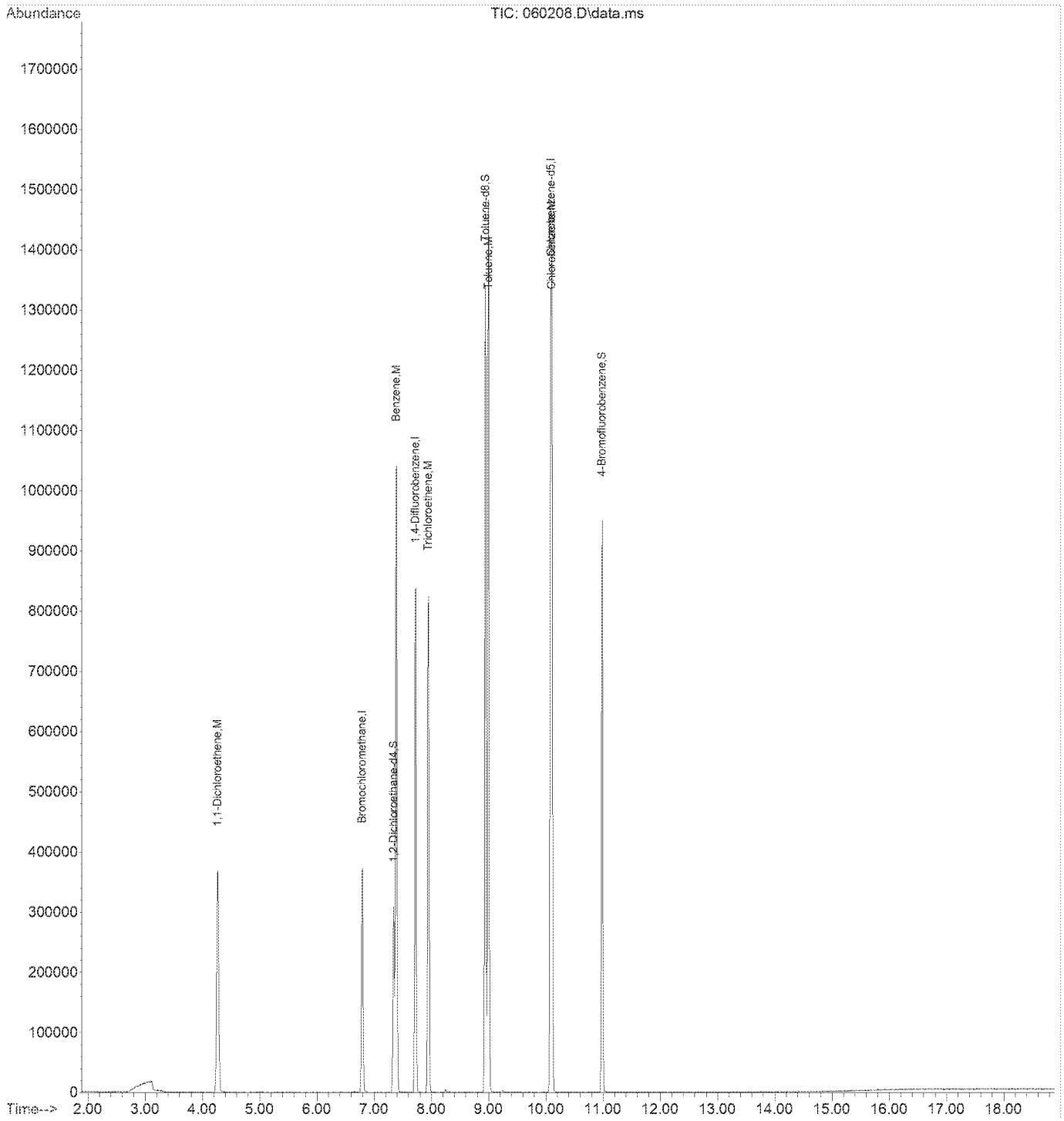
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.790	128	126128	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	704529	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	691294	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	186435	49.79 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 99.58%		
38) Toluene-d8	8.944	98	893522	53.39 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 106.78%		
49) 4-Bromofluorobenzene	10.982	95	286177	46.38 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 92.76%		
Target Compounds					Qvalue
8) 1,1-Dichloroethene	4.266	96	222220	62.18 ug/l	99
26) Benzene	7.387	78	979319	64.13 ug/l	100
27) Trichloroethene	7.946	130	302816	64.83 ug/l	98
39) Toluene	8.993	91	1089206	59.35 ug/l	98
43) Chlorobenzene	10.106	112	768792	60.01 ug/l	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060208.D
Acq On : 2 Jun 2011 1:52 pm
Operator : jml
Sample : LCS-S
Misc : 1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 08 16:28:29 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060210.D
Acq On : 2 Jun 2011 2:50 pm
Operator : jml
Sample : MS-S
Misc : 1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 08 16:32:34 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

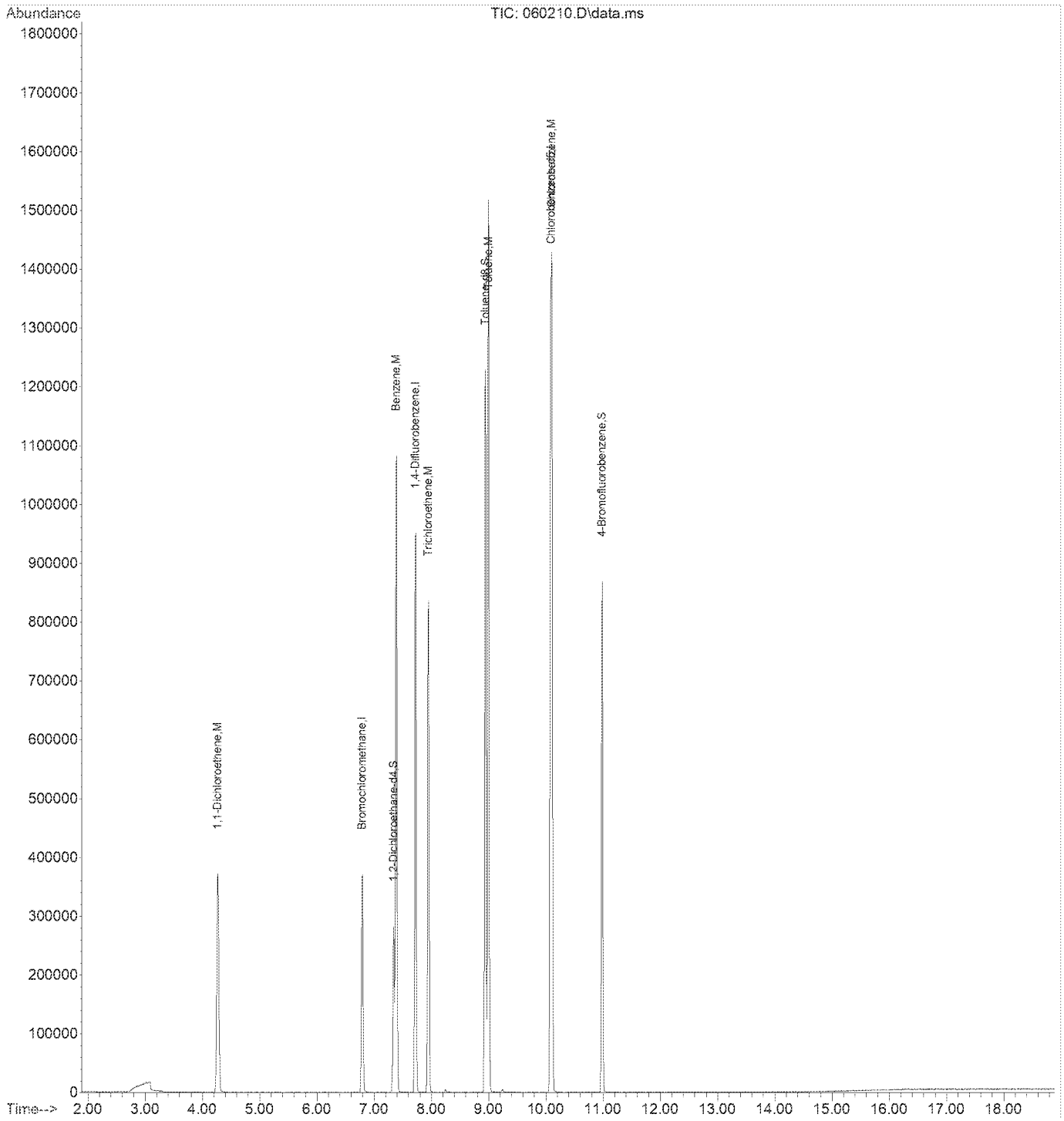
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.790	128	127744	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	809067	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	744044	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	171924	45.33 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 90.66%		
38) Toluene-d8	8.944	98	834631	46.33 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 92.66%		
49) 4-Bromofluorobenzene	10.982	95	264397	39.82 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 79.64%#		
Target Compounds					Qvalue
8) 1,1-Dichloroethene	4.266	96	224091	61.91 ug/l	97
26) Benzene	7.387	78	993550	56.66 ug/l	100
27) Trichloroethene	7.946	130	305898	57.02 ug/l	99
39) Toluene	8.993	91	1105825	55.98 ug/l	97
43) Chlorobenzene	10.106	112	775517	56.24 ug/l	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060210.D
Acq On : 2 Jun 2011 2:50 pm
Operator : jml
Sample : MS-S
Misc : 1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 08 16:32:34 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060211.D
Acq On : 2 Jun 2011 3:19 pm
Operator : jml
Sample : MSD-S
Misc : 1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 08 16:33:52 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration

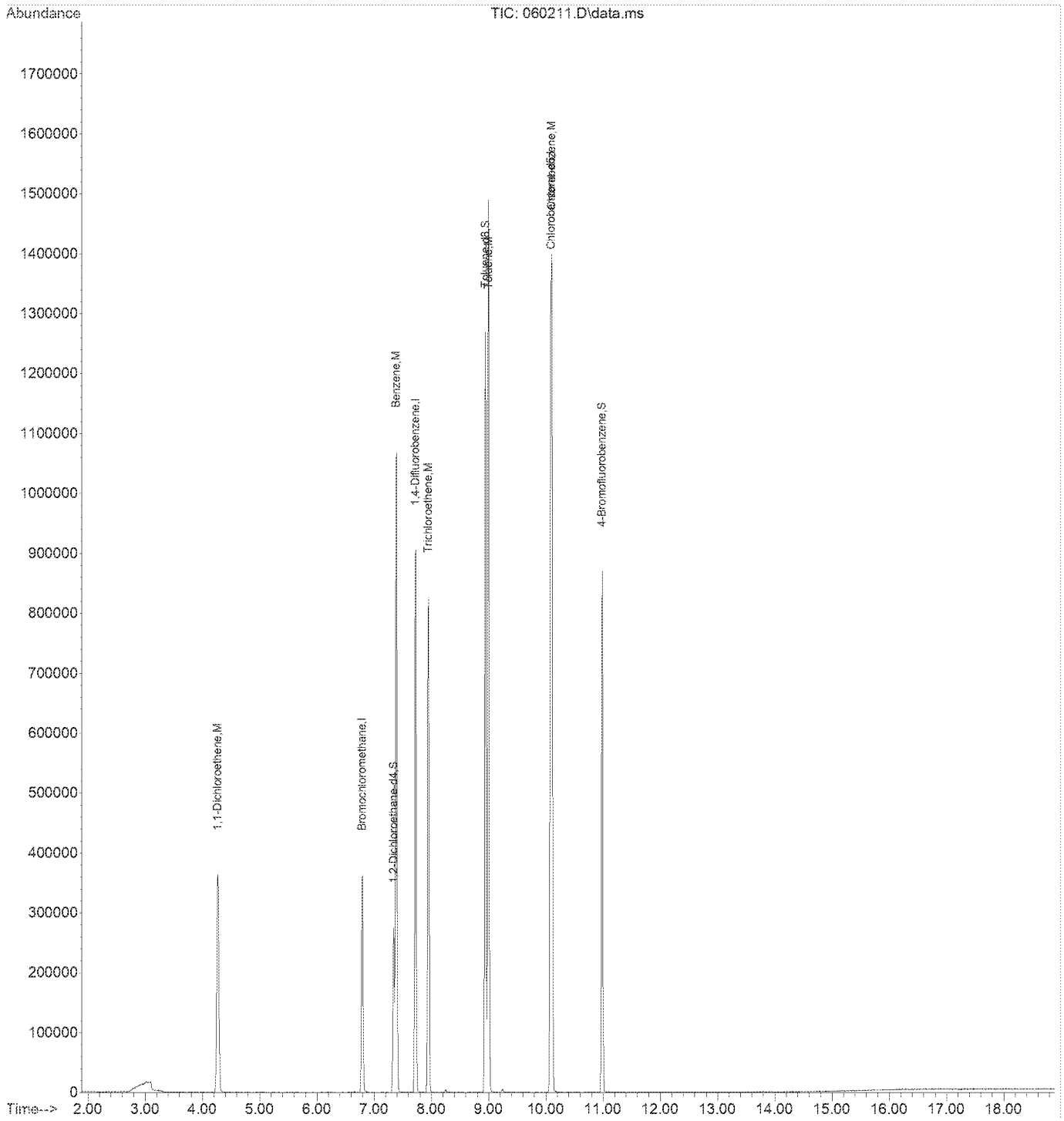
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.790	128	123965	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	761557	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	708388	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	170015	46.19 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 92.38%		
38) Toluene-d8	8.944	98	838455	48.89 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 97.78%		
49) 4-Bromofluorobenzene	10.982	95	260675	41.23 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 82.46%#		
Target Compounds					Qvalue
8) 1,1-Dichloroethene	4.266	96	223843	63.73 ug/l	99
26) Benzene	7.387	78	978678	59.29 ug/l	100
27) Trichloroethene	7.946	130	303759	60.16 ug/l	98
39) Toluene	8.993	91	1090410	57.98 ug/l	98
43) Chlorobenzene	10.106	112	769657	58.63 ug/l	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50602L.jml\
Data File : 060211.D
Acq On : 2 Jun 2011 3:19 pm
Operator : jml
Sample : MSD-S
Misc : 1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 08 16:33:52 2011
Quant Method : C:\msdchem\2\Methods\I50426L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Mon May 02 11:29:50 2011
Response via : Initial Calibration



Environmental Laboratory Section - Division of Water
Department of Natural Resources and Environmental Control
89 Kings Highway, Dover, DE 19901 (302) 739-9942

FIELD CHAIN OF CUSTODY

(Complete in BLUE ink)

Page 1 of 23

Client : Robert M. Schulte
Address : DNREC - Division of Air & Waste Management
391 Lukens Drive, New Castle, DE 19720
Phone No.: (302) 395-2600

Report To : Robert M. Schulte
Invoice To : Robert M. Schulte
Account :
ELS Order ID : 1105054

PROJECT NAME: DE-0344 (Procino Plating)

SAMPLERS (Please Print): PRICE / STANLEY

(ELS Use Only) Lab Log No.	Client Sample Description	Sample Date	Sample Time	Matrix[1]	Comp	Grab	No. Of Containers	VOA	SVOA	Metals (total & diss)					REMARKS
1105054-001	Trip Blank	4/27/11	1200	SO		✓	1	✓			ANALYZE				
	PP-MW03-S	5-24-11	0918	SOIL	X		2	X	X	X	—	—	—	—	
1105054-002	PP-MW03D		0935								ANALYZE				
	PP-SB03S		1040								—	—	—	—	
	PP-SB03D		1045								—	—	—	—	
	PP-MW02S		1100								—	—	—	—	
	PP-MW02D		1105								—	—	—	—	
	PP-SB02S		1215								—	—	—	—	
	PP-SB02D		1220								—	—	—	—	
1105054-003	PP-SB01S		1250								ANALYZE				

RELINQUISHED BY: (signature)	DATE	TIME	RECEIVED BY: (signature)
[signature]	5/31/11	1410	[signature]

DW - drinking water, ER - equip. rinsate, GW - ground water, Lab - lab water, LW - liquid waste, SE - sediment, SL - sludge, SO - soil, SW - surface water, TI - tissue, WS - solid waste, WW - waste water

COMMENTS: — = DO NOT ANALYZE! SAMPLES NOT IN COOLER.

Is laboratory chain-of-custody required? Yes / No

ELS USE ONLY
Sample Conditions (circle response):
1. Samples match COC? Yes/No 2. Bottles supplied by ELS? Yes/No 3. Samples received broken/leaking? Yes/No 4. Cooler temp bottle 2-6 degrees? Yes/No/NA
5. Properly preserved? Yes/No 6. VOA/DO containers free of headspace? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No

Coc [4010]

Environmental Laboratory Section - Division of Water
Department of Natural Resources and Environmental Control
89 Kings Highway, Dover, DE 19901 (302) 739-9942

FIELD CHAIN OF CUSTODY

(Complete in BLUE ink)

Page 2 of 3

Client : Robert M. Schulte
Address : DNREC - Division of Air & Waste Management
391 Lukens Drive, New Castle, DE 19720
Phone No.: (302) 395-2600

Report To : Robert M. Schulte
Invoice To : Robert M. Schulte
Account :
ELS Order ID :

PROJECT NAME: DE-0344 (Procino Plating)

SAMPLERS (Please Print)

(ELS Use Only) Lab Log No.	Client Sample Description	Sample Date	Sample Time	Matrix*	Comp	Grab	No. Of Containers	VOA	SVOA	Metals (total & diss)						REMARKS
	PP-MW04S	5-25-11	0917	SOIL	X		2	X	X	X	—	—	—	—	—	
	PP-MW04D		0922								—	—	—	—	—	
1105054-004	PP-SB05S		1029								ANALYZE					
	PP-SB05D		1042								—	—	—	—	—	
	PP-MW05S		1100								—	—	—	—	—	
	PP-MW05D		1109								—	—	—	—	—	
	PP-SB06S		1330								—	—	—	—	—	
	PP-SB06D		1336								—	—	—	—	—	
	PP-MW06S		1225								—	—	—	—	—	
1105054-005	PP-MW06D		1231								ANALYZE					

RELINQUISHED BY: (signature)	DATE	TIME	RECEIVED BY: (signature)
[signature]	5/31/11	1410	Renee L Heinen

DW - drinking water; ER - equip. rinsate; GW - ground water; Lab - lab water; LW - liquid waste; SE - sediment; SL - sludge; SO - soil; SW - surface water; TI - tissue; WS - solid waste; WW - waste water

COMMENTS: — = DO NOT ANALYZE; SAMPLES NOT INCLUDED IN COOLER

Is laboratory chain-of-custody required? Yes / No

ELS USE ONLY
Sample Conditions (circle response):
1. Samples match COC? Yes/No 2. Bottles supplied by ELS? Yes/No 3. Samples received broken/leaking? Yes/No 4. Cooler temp bottle 2-6 degrees? Yes/No/NA
5. Properly preserved? Yes/No 6. VOA/DO containers free of headspace? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No

Coc 040101

Environmental Laboratory Section - Division of Water
Department of Natural Resources and Environmental Control
89 Kings Highway, Dover, DE 19901 (302) 739-9942

FIELD CHAIN OF CUSTODY

(Complete in BLUE ink)

Page 3 of 3

Client : Robert M. Schulte
Address : DNREC - Division of Air & Waste Management
391 Lukens Drive, New Castle, DE 19720
Phone No.: (302) 395-2600

Report To : Robert M. Schulte
Invoice To : Robert M. Schulte
Account :
ELS Order ID :

PROJECT NAME: DE-0344 (Procino Plating)

SAMPLERS (Please Print): PRICE/STANLEY

(ELS Use Only) Lab Log No.	Client Sample Description	Sample Date	Sample Time	Matrix*	Comp	Grab	No. Of Containers	VOA	SVOA	Metals (total & diss)						REMARKS
	PP-SB075	5-26-11	0912	SOIL	X		2	X	X	X						
	PP-SB07D	↓	0900	↓	↓		↓	↓	↓	↓						
	PP-SB095		0942													
1105054-006	PP-SB09D		0940								ANALYZE					
	PP-SB10D	↓	0934	↓	↓	↓	↓	↓	↓	↓						

RELINQUISHED BY: (signature)	DATE	TIME	RECEIVED BY: (signature)
[signature]	5/31/11	1410	[signature]

DW - drinking water
ER - equip. rinsate
GW - ground water
Lab - lab water
LW - liquid waste
SE - sediment
SL - sludge
SO - soil
SW - surface water
TI - tissue
WS - solid waste
WW - waste water

COMMENTS: — DO NOT ANALYZE: SAMPLES NOT IN COOLER.

Is laboratory chain-of-custody required? Yes/No

ELS USE ONLY
Sample Conditions (circle response):
1. Samples match COC? Yes/No 2. Bottles supplied by ELS? Yes/No 3. Samples received broken/leaking? Yes/No 4. Cooler temp bottle 2-6 degrees? Yes/No/NA
5. Properly preserved? Yes/No 6. VOA/DO containers free of headspace? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No

Cas E40101

Environmental Laboratory Section – Division of Water Resources
Delaware Department of Natural Resources and Environmental Control
89 Kings Highway, Dover, DE 11901 (302) 739-9942

VOA LABORATORY CHAIN OF CUSTODY

Log Number	Container Number(s)	Log Number	Container Number(s)
1105054-001	110427TB		
1105054-002	110427C		
1105054-003	110427Y		
1105054-004	110427V		
1105054-005	110427R		
1105054-006	110427L		

Date/time 5/31/11 1410 Sample Custodian Renee L Heenen to Cooler.
mo day yr time (signature)

Date 5/31/11 Received by Carol Mitchell Time 1410
mo day yr (signature)

Date / / Received by _____ Time _____
mo day yr (signature)

Date / / Disposal by _____
mo day yr (signature)

\\F:\ELS\documents\approved_docs\forms\VOALCOC.doc
4/18/02

00111

Environmental Laboratory Section
Delaware Department of Natural Resources & Environmental Control Division of Water Resources
89 Kings Highway, Dover, DE 19901 (302)739-9942

VOLATILES - DEL 5 - INSTRUMENT RUN LOG

Project Name(s): Calibration
Order No(s): —
Target Parameters: TCL
EM Volts: 1635

Tracking No(s):
BFB: VW2748
Surrogate/ISTD: VW2813
ISTDs: —

Target Cmpds: VW2815
Spikes: —

DATAFILE	Sample Information	Run Date	Analyst	Comments (pH)
040101	BFB	4-1-11	AF	
02	BFB			
03	VSTD300			
04	200			
05	100			
06	050			
07	020			
08	010			

Data Directory: MS040IL.JML
Processing Method: IS040IL+M

00021

Environmental Laboratory Section
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89 Kings Highway, Dover, DE 19901 (302)739-9942

VOLATILES - DEL 5 - INSTRUMENT RUN LOG

Project Name(s): Procino plating/Tonis Tracking No(s):
Order No(s): 1105054/1105045 BFB: VW2840 Target Cmpds: VW2856
Target Parameters: TCL Surrogate/ISTD: VW2857 Spikes: VW2858
EM Volts: 1635 ISTDs: VW2854

DATAFILE	Sample Information	Run Date	Analyst	Comments (pH)
060201	BFB	6-2-11	gz	
02	BFB			
03	VSTD050			
04	005			
05	Method Blank			MB3
06	Method Blank			
07	1105054-001			
08	LCS-S			
09	1105054-002			
10	MS-S			
11	MSD-S			
12	1105054-003			
13	-004			
14	-005			
15	-006			
16	1105045-003			x250
17	Blank			
18	1105045-004			x250
19	Blank			
20	VSTD050			

Data Directory: MS50602L.JnL Processing Method: I50426L.M

00045

Environmental Laboratory Section
Delaware DNREC - Division of Water Resources
89 Kings Highway, Dover DE 19901 (302) 739-4771

SOIL VOAS - METHANOL METHOD
SAMPLE PREPARATION LOGBOOK

Parse MeOH Prep Worksheet

Date Prepared	ID	Container/Number	Initial Weight (g)	Time of Initial Weight	Date Received	Final Weight (g)	Time of Final Weight	Project	ELS Sample Number	Sample Weight (g)	Observations
4/11/2011	MB1	110411MB1	44.85			70.07				25.22	method blank
4/11/2011	MB2	110411MB2	44.91			70.01				25.10	method blank
4/11/2011	MB3	110411MB3	44.73			69.91				25.18	method blank
4/11/2011	MB4	110411MB4	44.94			70.03				25.09	method blank
4/11/2011	MB5	110411MB5	44.69			70.19				25.50	method blank

Renee Henion 4/11/11

Review by: _____ Date: _____

Environmental Laboratory Section
Delaware DNREC - Division of Water Resources
89 Kings Highway, Dover DE 19901 (302) 739-4771

SOIL VOAS - METHANOL METHOD
SAMPLE PREPARATION LOGBOOK

Parse MeOH Prep Worksheet

Date Prepared	ID	Container Number	Initial Weight (g)	Time of Initial Weight	Date Received	Final Weight (g)	Time of Final Weight	Project	ELS Sample Number	Sample Weight (g)	Observations
4/27/2011	TB	110427TB	44.95		05/31/2011	71.66		DE0344	1105054-001	26.71	trip blank
4/27/2011	C	110427C	44.94		05/31/2011	61.54		DE0344	1105054-002	16.60	
4/27/2011	L	110427L	44.88		05/31/2011	61.40		DE0344	1105054-006	16.52	
4/27/2011	R	110427R	44.49		05/31/2011	59.74		DE0344	1105054-005	15.25	
4/27/2011	V	110427V	44.80		05/31/2011	61.18		DE0344	1105054-004	16.38	
4/27/2011	Y	110427Y	44.47		05/31/2011	60.52		DE0344	1105054-003	16.05	

Renee Hanson 5/31/11

Review by: _____ Date: _____

Environmental Laboratory Section
Delaware DNREC - Division of Water Resources
89 Kings Highway, Dover DE 19901 (302) 739-4771

PERCENT MOISTURE (Wet Weight Determination)

	Date	Analyst	QCType	Weight (g)	Acceptance Range (+/-) (g)	Tare + Standard (g)	Time Standard Weight	Calibration Verified?
Wet Weights:	6/1/2011	rlh	CCVBL	1	0.0003	1.0000	14:43:51	Pass
			CCVB	10	0.0004	10.0000	14:44:10	Pass
Dry Weights:	6/2/2011	rlh	CCVEL	1	0.0003	1.0000	07:10:11	Pass
			CCVE	10	0.0004	10.0000	07:10:35	Pass

Parse %M Worksheet

ELS Sample Number	QC	Decanted (D) or Not Decanted (ND)	Inorganic (I) or Organic (O)	Dish #	T = Tare (g)	Tare Time	W1 = Tare + Wet Sample(g)	Wet Weight Time	W2 = Tare + Dry Sample (g)	Dry Weight Time	WW = Wet Weight (W1 - T) (g)	DW = Dry Weight (W2 - T) (g)	%Moisture = 100*(WW-DW)/WW	% Solids = (DW/WW)*100	Solids Ratio = 100/%Solids	Duplicate RPD
1105044-002		ND	I	1	0.9852	14:45:21	8.2482	14:58:46	7.1263	07:11:38	7.2629	6.1411	15.4458112	84.6	1.1820	
1105044-003		ND	I	2	0.9982	14:45:44	8.8304	14:59:26	8.1288	07:11:56	7.8322	7.1305	8.958796965	91	1.0989	
1105044-004		ND	I	3	1.0092	14:46:04	8.3875	15:00:32	7.1838	07:12:22	7.3783	6.1746	16.31484717	83.7	1.1947	
1105044-005		ND	I	4	1.0134	14:46:24	8.7055	15:01:29	7.9262	07:12:51	7.6921	6.9128	10.13100403	89.9	1.1123	
DUPLICATE	1105044-005	ND	I	5	1.0132	14:46:49	8.7056	15:03:35	7.9047	07:13:17	7.6924	6.8914	10.41260151	89.6	1.1161	3%
1105044-006		ND	I	6	1.0123	14:47:08	8.1231	15:04:31	7.3686	07:13:47	7.1108	6.3563	10.61024334	89.4	1.1186	
1105044-007		ND	I	7	0.9934	14:47:36	8.1000	15:05:25	7.0691	07:14:20	7.1066	6.0757	14.50625405	85.5	1.1696	
1105044-008		ND	I	8	1.0021	14:48:01	8.1149	15:06:22	7.4646	07:14:59	7.1128	6.4625	9.142148558	90.9	1.1001	
1105044-009		ND	I	9	0.9812	14:48:24	8.7527	15:08:07	6.8971	07:15:23	7.7715	5.9159	23.877311	76.1	1.3141	
1105054-002		ND	IO	10	0.9905	14:48:44	8.8189	15:08:50	8.2331	07:15:46	7.8284	7.2426	7.483256498	92.5	1.0811	
1105054-003		ND	IO	11	0.9780	14:49:06	8.6920	15:09:40	8.3954	07:16:06	7.7140	7.4174	3.844817618	96.2	1.0395	
1105054-004		ND	IO	12	0.9994	14:49:32	8.2213	15:11:24	8.0603	07:16:28	7.2220	7.0610	2.229031691	97.8	1.0225	
DUPLICATE	1105054-004	ND	IO	13	0.9920	14:49:51	8.2206	15:12:47	8.0636	07:16:49	7.2286	7.0717	2.171777817	97.8	1.0225	3%
1105054-005		ND	IO	14	1.0165	14:50:17	8.1763	15:13:46	7.6962	07:17:11	7.1599	6.6797	6.705978312	93.3	1.0718	
1105054-006		ND	IO	15	1.0070	14:50:39	8.0850	15:14:44	7.6106	07:17:30	7.0780	6.6035	6.70291058	93.3	1.0718	
1105055-002		ND	I	16	1.0015	14:51:06	8.4409	15:15:57	7.7083	07:17:53	7.4395	6.7069	9.847596875	90.2	1.1086	
1105055-003		ND	I	17	1.0139	14:51:25	8.2070	15:16:52	7.4777	07:18:11	7.1931	6.4638	10.13864734	89.9	1.1123	
1105055-004		ND	I	18	0.9982	14:51:45	8.7176	15:18:23	7.9062	07:18:35	7.7194	6.9080	10.51117963	89.5	1.1173	
1105055-005		ND	I	19	1.0195	14:52:13	8.4694	15:19:36	8.2842	07:18:56	7.4499	7.2648	2.484996463	97.5	1.0256	
1105055-006		ND	I	20	1.0232	14:52:37	8.4854	15:20:42	7.6363	07:19:15	7.4621	6.6131	11.37796932	88.6	1.1287	

Analyst Signoff: Renee Herman Date: 6/2/11
Review by: [illegible] Date: 6/2/11

PROJECT NARRATIVE
Project: Procino Plating
Soils
Order Number: 1105054

1 Discussion of Exceptions / Quality Control Abnormalities

1.1 The surrogate compounds 2-Fluorobiphenyl and Nitrobenzene-d5 are outside the upper QC limit in Method Blank 2.
1.2 The surrogate compound 2-Fluorobiphenyl is outside the upper QC limit in MSD-S.
1.3 The matrix spike compounds 1,4-Dichlorobenzene and Acenaphthene have an RPD is outside the established QC limit.

2 Summary of Dilutions

2.1 None

3 Method References

3.1 The laboratory followed analytical protocol from USEPA SW-846 Method 8270D and the State of Delaware HSCA SOP.

4 Method Deviations

4.1 None

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-MW03 D

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-002
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 7.5

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	360	U	06/06/2011 22:44
108-95-2	Phenol	1	360	U	06/06/2011 22:44
95-57-8	2-Chlorophenol	1	360	U	06/06/2011 22:44
111-44-4	bis(2-Chloroethyl) ether	1	360	U	06/06/2011 22:44
541-73-1	1,3-Dichlorobenzene	1	360	U	06/06/2011 22:44
106-46-7	1,4-Dichlorobenzene	1	360	U	06/06/2011 22:44
95-50-1	1,2-Dichlorobenzene	1	360	U	06/06/2011 22:44
95-48-7	2-Methylphenol	1	360	U	06/06/2011 22:44
108-60-1	2,2'-oxybis(1-Chloropropane)	1	360	U	06/06/2011 22:44
67-72-1	Hexachloroethane	1	360	U	06/06/2011 22:44
98-86-2	Acetophenone	1	360	U	06/06/2011 22:44
106-44-5	4-Methylphenol	1	360	U	06/06/2011 22:44
621-64-7	N-Nitroso-di-n-propylamine	1	360	U	06/06/2011 22:44
98-95-3	Nitrobenzene	1	360	U	06/06/2011 22:44
78-59-1	Isophorone	1	360	U	06/06/2011 22:44
88-75-5	2-Nitrophenol	1	360	U	06/06/2011 22:44
105-67-9	2,4-Dimethylphenol	1	360	U	06/06/2011 22:44
111-91-1	bis(2-Chloroethoxy) methane	1	360	U	06/06/2011 22:44
120-83-2	2,4-Dichlorophenol	1	360	U	06/06/2011 22:44
120-82-1	1,2,4-Trichlorobenzene	1	360	U	06/06/2011 22:44
91-20-3	Naphthalene	1	360	U	06/06/2011 22:44
106-47-8	4-Chloroaniline	1	360	U	06/06/2011 22:44
87-68-3	Hexachlorobutadiene	1	360	U	06/06/2011 22:44
105-60-2	Caprolactam	1	360	U	06/06/2011 22:44
59-50-7	4-Chloro-3-methylphenol	1	360	U	06/06/2011 22:44
91-57-6	2-Methylnaphthalene	1	360	U	06/06/2011 22:44
77-47-4	Hexachlorocyclopentadiene	1	360	U	06/06/2011 22:44
88-06-2	2,4,6-Trichlorophenol	1	360	U	06/06/2011 22:44
95-95-4	2,4,5-Trichlorophenol	1	360	U	06/06/2011 22:44
92-52-4	1,1'-Biphenyl	1	360	U	06/06/2011 22:44
91-58-7	2-Chloronaphthalene	1	360	U	06/06/2011 22:44
88-74-4	2-Nitroaniline	1	360	U	06/06/2011 22:44
208-96-8	Acenaphthylene	1	360	U	06/06/2011 22:44
131-11-3	Dimethyl phthalate	1	360	U	06/06/2011 22:44
606-20-2	2,6-Dinitrotoluene	1	360	U	06/06/2011 22:44
99-09-2	3-Nitroaniline	1	360	U	06/06/2011 22:44
83-32-9	Acenaphthene	1	360	U	06/06/2011 22:44
51-28-5	2,4-Dinitrophenol	1	360	U	06/06/2011 22:44
132-64-9	Dibenzofuran	1	360	U	06/06/2011 22:44
100-02-7	4-Nitrophenol	1	360	U	06/06/2011 22:44
121-14-2	2,4-Dinitrotoluene	1	360	U	06/06/2011 22:44
86-73-7	Fluorene	1	360	U	06/06/2011 22:44
84-66-2	Diethyl phthalate	1	360	U	06/06/2011 22:44
7005-72-3	4-Chlorophenyl-phenyl ether	1	360	U	06/06/2011 22:44
100-01-6	4-Nitroaniline	1	360	U	06/06/2011 22:44
534-52-1	4,6-Dinitro-2-methylphenol	1	360	U	06/06/2011 22:44
86-30-6	N-Nitrosodiphenylamine	1	360	U	06/06/2011 22:44
101-55-3	4-Bromophenyl-phenyl ether	1	360	U	06/06/2011 22:44
1912-24-9	Atrazine	1	360	U	06/06/2011 22:44
118-74-1	Hexachlorobenzene	1	360	U	06/06/2011 22:44
87-86-5	Pentachlorophenol	1	360	U	06/06/2011 22:44
85-01-8	Phenanthrene	1	360	U	06/06/2011 22:44
120-12-7	Anthracene	1	360	U	06/06/2011 22:44

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-MW03 D

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-002
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 7.5

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	360	U	06/06/2011 22:44
84-74-2	Di-n-butyl phthalate	1	360	U	06/06/2011 22:44
206-44-0	Fluoranthene	1	360	U	06/06/2011 22:44
129-00-0	Pyrene	1	360	U	06/06/2011 22:44
85-68-7	Butyl benzyl phthalate	1	360	U	06/06/2011 22:44
56-55-3	Benzo(a)anthracene	1	360	U	06/06/2011 22:44
91-94-1	3,3'-Dichlorobenzidine	1	360	U	06/06/2011 22:44
218-01-9	Chrysene	1	360	U	06/06/2011 22:44
117-81-7	bis(2-Ethylhexyl) phthalate	1	360	U	06/06/2011 22:44
117-84-0	Di-n-octyl phthalate	1	360	U	06/06/2011 22:44
205-99-2	Benzo(b)fluoranthene	1	360	U	06/06/2011 22:44
207-08-9	Benzo(k)fluoranthene	1	360	U	06/06/2011 22:44
50-32-8	Benzo(a)pyrene	1	360	U	06/06/2011 22:44
193-39-5	Indeno(1,2,3-cd)pyrene	1	360	U	06/06/2011 22:44
53-70-3	Dibenz(a,h)anthracene	1	360	U	06/06/2011 22:44
191-24-2	Benzo(g,h,i)perylene	1	360	U	06/06/2011 22:44

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PP-MW03 D

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-002
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 7.5

CAS No.	Compound	RT	Dilution Factor	Concentration	Qualifier	Analysis Time
000123-42-2	2-Pentanone, 4-hydroxy-4-met	4.77	1	30000	J N	06/08/2011 22:44

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-MW03 D MS

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-002A
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 7.5

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	360	U	06/06/2011 23:21
108-95-2	Phenol	1	2300		06/06/2011 23:21
95-57-8	2-Chlorophenol	1	2200		06/06/2011 23:21
111-44-4	bis(2-Chloroethyl) ether	1	360	U	06/06/2011 23:21
541-73-1	1,3-Dichlorobenzene	1	360	U	06/06/2011 23:21
106-46-7	1,4-Dichlorobenzene	1	1500		06/06/2011 23:21
95-50-1	1,2-Dichlorobenzene	1	360	U	06/06/2011 23:21
95-48-7	2-Methylphenol	1	360	U	06/06/2011 23:21
108-60-1	2,2'-oxybis(1-Chloropropane)	1	360	U	06/06/2011 23:21
67-72-1	Hexachloroethane	1	360	U	06/06/2011 23:21
98-86-2	Acetophenone	1	360	U	06/06/2011 23:21
106-44-5	4-Methylphenol	1	360	U	06/06/2011 23:21
621-64-7	N-Nitroso-di-n-propylamine	1	1600		06/06/2011 23:21
98-95-3	Nitrobenzene	1	360	U	06/06/2011 23:21
78-59-1	Isophorone	1	360	U	06/06/2011 23:21
88-75-5	2-Nitrophenol	1	360	U	06/06/2011 23:21
105-67-9	2,4-Dimethylphenol	1	360	U	06/06/2011 23:21
111-91-1	bis(2-Chloroethoxy) methane	1	360	U	06/06/2011 23:21
120-83-2	2,4-Dichlorophenol	1	360	U	06/06/2011 23:21
120-82-1	1,2,4-Trichlorobenzene	1	1500		06/06/2011 23:21
91-20-3	Naphthalene	1	360	U	06/06/2011 23:21
106-47-8	4-Chloroaniline	1	360	U	06/06/2011 23:21
87-68-3	Hexachlorobutadiene	1	360	U	06/06/2011 23:21
105-60-2	Caprolactam	1	360	U	06/06/2011 23:21
59-50-7	4-Chloro-3-methylphenol	1	2200		06/06/2011 23:21
91-57-6	2-Methylnaphthalene	1	360	U	06/06/2011 23:21
77-47-4	Hexachlorocyclopentadiene	1	360	U	06/06/2011 23:21
88-06-2	2,4,6-Trichlorophenol	1	360	U	06/06/2011 23:21
95-95-4	2,4,5-Trichlorophenol	1	360	U	06/06/2011 23:21
92-52-4	1,1'-Biphenyl	1	360	U	06/06/2011 23:21
91-58-7	2-Chloronaphthalene	1	360	U	06/06/2011 23:21
88-74-4	2-Nitroaniline	1	360	U	06/06/2011 23:21
208-96-8	Acenaphthylene	1	360	U	06/06/2011 23:21
131-11-3	Dimethyl phthalate	1	360	U	06/06/2011 23:21
606-20-2	2,6-Dinitrotoluene	1	360	U	06/06/2011 23:21
99-09-2	3-Nitroaniline	1	360	U	06/06/2011 23:21
83-32-9	Acenaphthene	1	1500		06/06/2011 23:21
51-28-5	2,4-Dinitrophenol	1	360	U	06/06/2011 23:21
132-64-9	Dibenzofuran	1	360	U	06/06/2011 23:21
100-02-7	4-Nitrophenol	1	1900		06/06/2011 23:21
121-14-2	2,4-Dinitrotoluene	1	1500		06/06/2011 23:21
86-73-7	Fluorene	1	360	U	06/06/2011 23:21
84-66-2	Diethyl phthalate	1	360	U	06/06/2011 23:21
7005-72-3	4-Chlorophenyl-phenyl ether	1	360	U	06/06/2011 23:21
100-01-6	4-Nitroaniline	1	360	U	06/06/2011 23:21
534-52-1	4,6-Dinitro-2-methylphenol	1	360	U	06/06/2011 23:21
86-30-6	N-Nitrosodiphenylamine	1	360	U	06/06/2011 23:21
101-55-3	4-Bromophenyl-phenyl ether	1	360	U	06/06/2011 23:21
1912-24-9	Atrazine	1	360	U	06/06/2011 23:21
118-74-1	Hexachlorobenzene	1	360	U	06/06/2011 23:21
87-86-5	Pentachlorophenol	1	1900		06/06/2011 23:21
85-01-8	Phenanthrene	1	360	U	06/06/2011 23:21
120-12-7	Anthracene	1	360	U	06/06/2011 23:21

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-MW03 D MS

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-002A
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 7.5

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	360	U	06/06/2011 23:21
84-74-2	Di-n-butyl phthalate	1	360	U	06/06/2011 23:21
206-44-0	Fluoranthene	1	360	U	06/06/2011 23:21
129-00-0	Pyrene	1	1600		06/06/2011 23:21
85-68-7	Butyl benzyl phthalate	1	360	U	06/06/2011 23:21
56-55-3	Benzo(a)anthracene	1	360	U	06/06/2011 23:21
91-94-1	3,3'-Dichlorobenzidine	1	360	U	06/06/2011 23:21
218-01-9	Chrysene	1	360	U	06/06/2011 23:21
117-81-7	bis(2-Ethylhexyl) phthalate	1	360	U	06/06/2011 23:21
117-84-0	Di-n-octyl phthalate	1	360	U	06/06/2011 23:21
205-99-2	Benzo(b)fluoranthene	1	360	U	06/06/2011 23:21
207-08-9	Benzo(k)fluoranthene	1	360	U	06/06/2011 23:21
50-32-8	Benzo(a)pyrene	1	360	U	06/06/2011 23:21
193-39-5	Indeno(1,2,3-cd)pyrene	1	360	U	06/06/2011 23:21
53-70-3	Dibenz(a,h)anthracene	1	360	U	06/06/2011 23:21
191-24-2	Benzo(g,h,i)perylene	1	360	U	06/06/2011 23:21

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-MW03 D MSD

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-002B
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 7.5

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	360	U	06/06/2011 23:57
108-95-2	Phenol	1	2300		06/06/2011 23:57
95-57-8	2-Chlorophenol	1	2500		06/06/2011 23:57
111-44-4	bis(2-Chloroethyl) ether	1	360	U	06/06/2011 23:57
541-73-1	1,3-Dichlorobenzene	1	360	U	06/06/2011 23:57
106-46-7	1,4-Dichlorobenzene	1	2000		06/06/2011 23:57
95-50-1	1,2-Dichlorobenzene	1	360	U	06/06/2011 23:57
95-48-7	2-Methylphenol	1	360	U	06/06/2011 23:57
108-60-1	2,2'-oxybis(1-Chloropropane)	1	360	U	06/06/2011 23:57
67-72-1	Hexachloroethane	1	360	U	06/06/2011 23:57
98-86-2	Acetophenone	1	360	U	06/06/2011 23:57
106-44-5	4-Methylphenol	1	360	U	06/06/2011 23:57
621-64-7	N-Nitroso-di-n-propylamine	1	1700		06/06/2011 23:57
98-95-3	Nitrobenzene	1	360	U	06/06/2011 23:57
78-59-1	Isophorone	1	360	U	06/06/2011 23:57
88-75-5	2-Nitrophenol	1	360	U	06/06/2011 23:57
105-67-9	2,4-Dimethylphenol	1	360	U	06/06/2011 23:57
111-91-1	bis(2-Chloroethoxy) methane	1	360	U	06/06/2011 23:57
120-83-2	2,4-Dichlorophenol	1	360	U	06/06/2011 23:57
120-82-1	1,2,4-Trichlorobenzene	1	2200		06/06/2011 23:57
91-20-3	Naphthalene	1	360	U	06/06/2011 23:57
106-47-8	4-Chloroaniline	1	360	U	06/06/2011 23:57
87-68-3	Hexachlorobutadiene	1	360	U	06/06/2011 23:57
105-60-2	Caprolactam	1	360	U	06/06/2011 23:57
59-50-7	4-Chloro-3-methylphenol	1	2400		06/06/2011 23:57
91-57-6	2-Methylnaphthalene	1	360	U	06/06/2011 23:57
77-47-4	Hexachlorocyclopentadiene	1	360	U	06/06/2011 23:57
88-06-2	2,4,6-Trichlorophenol	1	360	U	06/06/2011 23:57
95-95-4	2,4,5-Trichlorophenol	1	360	U	06/06/2011 23:57
92-52-4	1,1'-Biphenyl	1	360	U	06/06/2011 23:57
91-58-7	2-Chloronaphthalene	1	360	U	06/06/2011 23:57
88-74-4	2-Nitroaniline	1	360	U	06/06/2011 23:57
208-96-8	Acenaphthylene	1	360	U	06/06/2011 23:57
131-11-3	Dimethyl phthalate	1	360	U	06/06/2011 23:57
606-20-2	2,6-Dinitrotoluene	1	360	U	06/06/2011 23:57
99-09-2	3-Nitroaniline	1	360	U	06/06/2011 23:57
83-32-9	Acenaphthene	1	2400		06/06/2011 23:57
51-28-5	2,4-Dinitrophenol	1	360	U	06/06/2011 23:57
132-64-9	Dibenzofuran	1	360	U	06/06/2011 23:57
100-02-7	4-Nitrophenol	1	1800		06/06/2011 23:57
121-14-2	2,4-Dinitrotoluene	1	1400		06/06/2011 23:57
86-73-7	Fluorene	1	360	U	06/06/2011 23:57
84-66-2	Diethyl phthalate	1	360	U	06/06/2011 23:57
7005-72-3	4-Chlorophenyl-phenyl ether	1	360	U	06/06/2011 23:57
100-01-6	4-Nitroaniline	1	360	U	06/06/2011 23:57
534-52-1	4,6-Dinitro-2-methylphenol	1	360	U	06/06/2011 23:57
86-30-6	N-Nitrosodiphenylamine	1	360	U	06/06/2011 23:57
101-55-3	4-Bromophenyl-phenyl ether	1	360	U	06/06/2011 23:57
1912-24-9	Atrazine	1	360	U	06/06/2011 23:57
118-74-1	Hexachlorobenzene	1	360	U	06/06/2011 23:57
87-86-5	Pentachlorophenol	1	2200		06/06/2011 23:57
85-01-8	Phenanthrene	1	360	U	06/06/2011 23:57
120-12-7	Anthracene	1	360	U	06/06/2011 23:57

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-MW03 D MSD

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-002B
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 7.5

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	360	U	06/06/2011 23:57
84-74-2	Di-n-butyl phthalate	1	360	U	06/06/2011 23:57
206-44-0	Fluoranthene	1	360	U	06/06/2011 23:57
129-00-0	Pyrene	1	1600		06/06/2011 23:57
85-68-7	Butyl benzyl phthalate	1	360	U	06/06/2011 23:57
56-55-3	Benzo(a)anthracene	1	360	U	06/06/2011 23:57
91-94-1	3,3'-Dichlorobenzidine	1	360	U	06/06/2011 23:57
218-01-9	Chrysene	1	360	U	06/06/2011 23:57
117-81-7	bis(2-Ethylhexyl) phthalate	1	360	U	06/06/2011 23:57
117-84-0	Di-n-octyl phthalate	1	360	U	06/06/2011 23:57
205-99-2	Benzo(b)fluoranthene	1	360	U	06/06/2011 23:57
207-08-9	Benzo(k)fluoranthene	1	360	U	06/06/2011 23:57
50-32-8	Benzo(a)pyrene	1	360	U	06/06/2011 23:57
193-39-5	Indeno(1,2,3-cd)pyrene	1	360	U	06/06/2011 23:57
53-70-3	Dibenz(a,h)anthracene	1	360	U	06/06/2011 23:57
191-24-2	Benzo(g,h,i)perylene	1	360	U	06/06/2011 23:57

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-SB01 S

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-003
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 3.8

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	350	U	06/07/2011 00:34
108-95-2	Phenol	1	350	U	06/07/2011 00:34
95-57-8	2-Chlorophenol	1	350	U	06/07/2011 00:34
111-44-4	bis(2-Chloroethyl) ether	1	350	U	06/07/2011 00:34
541-73-1	1,3-Dichlorobenzene	1	350	U	06/07/2011 00:34
106-46-7	1,4-Dichlorobenzene	1	350	U	06/07/2011 00:34
95-50-1	1,2-Dichlorobenzene	1	350	U	06/07/2011 00:34
95-48-7	2-Methylphenol	1	350	U	06/07/2011 00:34
108-60-1	2,2'-oxybis(1-Chloropropane)	1	350	U	06/07/2011 00:34
67-72-1	Hexachloroethane	1	350	U	06/07/2011 00:34
98-86-2	Acetophenone	1	350	U	06/07/2011 00:34
106-44-5	4-Methylphenol	1	350	U	06/07/2011 00:34
621-64-7	N-Nitroso-di-n-propylamine	1	350	U	06/07/2011 00:34
98-95-3	Nitrobenzene	1	350	U	06/07/2011 00:34
78-59-1	Isophorone	1	350	U	06/07/2011 00:34
88-75-5	2-Nitrophenol	1	350	U	06/07/2011 00:34
105-67-9	2,4-Dimethylphenol	1	350	U	06/07/2011 00:34
111-91-1	bis(2-Chloroethoxy) methane	1	350	U	06/07/2011 00:34
120-83-2	2,4-Dichlorophenol	1	350	U	06/07/2011 00:34
120-82-1	1,2,4-Trichlorobenzene	1	350	U	06/07/2011 00:34
91-20-3	Naphthalene	1	350	U	06/07/2011 00:34
106-47-8	4-Chloroaniline	1	350	U	06/07/2011 00:34
87-68-3	Hexachlorobutadiene	1	350	U	06/07/2011 00:34
105-60-2	Caprolactam	1	350	U	06/07/2011 00:34
59-50-7	4-Chloro-3-methylphenol	1	350	U	06/07/2011 00:34
91-57-6	2-Methylnaphthalene	1	350	U	06/07/2011 00:34
77-47-4	Hexachlorocyclopentadiene	1	350	U	06/07/2011 00:34
88-06-2	2,4,6-Trichlorophenol	1	350	U	06/07/2011 00:34
95-95-4	2,4,5-Trichlorophenol	1	350	U	06/07/2011 00:34
92-52-4	1,1'-Biphenyl	1	350	U	06/07/2011 00:34
91-58-7	2-Chloronaphthalene	1	350	U	06/07/2011 00:34
88-74-4	2-Nitroaniline	1	350	U	06/07/2011 00:34
208-96-8	Acenaphthylene	1	350	U	06/07/2011 00:34
131-11-3	Dimethyl phthalate	1	350	U	06/07/2011 00:34
606-20-2	2,6-Dinitrotoluene	1	350	U	06/07/2011 00:34
99-09-2	3-Nitroaniline	1	350	U	06/07/2011 00:34
83-32-9	Acenaphthene	1	350	U	06/07/2011 00:34
51-28-5	2,4-Dinitrophenol	1	350	U	06/07/2011 00:34
132-64-9	Dibenzofuran	1	350	U	06/07/2011 00:34
100-02-7	4-Nitrophenol	1	350	U	06/07/2011 00:34
121-14-2	2,4-Dinitrotoluene	1	350	U	06/07/2011 00:34
86-73-7	Fluorene	1	350	U	06/07/2011 00:34
84-66-2	Diethyl phthalate	1	350	U	06/07/2011 00:34
7005-72-3	4-Chlorophenyl-phenyl ether	1	350	U	06/07/2011 00:34
100-01-6	4-Nitroaniline	1	350	U	06/07/2011 00:34
534-52-1	4,6-Dinitro-2-methylphenol	1	350	U	06/07/2011 00:34
86-30-6	N-Nitrosodiphenylamine	1	350	U	06/07/2011 00:34
101-55-3	4-Bromophenyl-phenyl ether	1	350	U	06/07/2011 00:34
1912-24-9	Atrazine	1	350	U	06/07/2011 00:34
118-74-1	Hexachlorobenzene	1	350	U	06/07/2011 00:34
87-86-5	Pentachlorophenol	1	350	U	06/07/2011 00:34
85-01-8	Phenanthrene	1	350	U	06/07/2011 00:34
120-12-7	Anthracene	1	350	U	06/07/2011 00:34

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-SB01 S

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-003
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 3.8

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	350	U	06/07/2011 00:34
84-74-2	Di-n-butyl phthalate	1	350	U	06/07/2011 00:34
206-44-0	Fluoranthene	1	350	U	06/07/2011 00:34
129-00-0	Pyrene	1	350	U	06/07/2011 00:34
85-68-7	Butyl benzyl phthalate	1	350	U	06/07/2011 00:34
56-55-3	Benzo(a)anthracene	1	350	U	06/07/2011 00:34
91-94-1	3,3'-Dichlorobenzidine	1	350	U	06/07/2011 00:34
218-01-9	Chrysene	1	350	U	06/07/2011 00:34
117-81-7	bis(2-Ethylhexyl) phthalate	1	350	U	06/07/2011 00:34
117-84-0	Di-n-octyl phthalate	1	350	U	06/07/2011 00:34
205-99-2	Benzo(b)fluoranthene	1	350	U	06/07/2011 00:34
207-08-9	Benzo(k)fluoranthene	1	350	U	06/07/2011 00:34
50-32-8	Benzo(a)pyrene	1	350	U	06/07/2011 00:34
193-39-5	Indeno(1,2,3-cd)pyrene	1	350	U	06/07/2011 00:34
53-70-3	Dibenz(a,h)anthracene	1	350	U	06/07/2011 00:34
191-24-2	Benzo(g,h,i)perylene	1	350	U	06/07/2011 00:34

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PP-SB01 S

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-003
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 3.8

CAS No.	Compound	RT	Dilution Factor	Concentration	Qualifier	Analysis Time
000123-42-2	2-Pentanone, 4-hydroxy-4-met	4.79	1	690	J N	06/09/2011 00:34

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-SB05 S

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-004
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 2.2

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	340	U	06/07/2011 01:11
108-95-2	Phenol	1	340	U	06/07/2011 01:11
95-57-8	2-Chlorophenol	1	340	U	06/07/2011 01:11
111-44-4	bis(2-Chloroethyl) ether	1	340	U	06/07/2011 01:11
541-73-1	1,3-Dichlorobenzene	1	340	U	06/07/2011 01:11
106-46-7	1,4-Dichlorobenzene	1	340	U	06/07/2011 01:11
95-50-1	1,2-Dichlorobenzene	1	340	U	06/07/2011 01:11
95-48-7	2-Methylphenol	1	340	U	06/07/2011 01:11
108-60-1	2,2'-oxybis(1-Chloropropane)	1	340	U	06/07/2011 01:11
67-72-1	Hexachloroethane	1	340	U	06/07/2011 01:11
98-86-2	Acetophenone	1	340	U	06/07/2011 01:11
106-44-5	4-Methylphenol	1	340	U	06/07/2011 01:11
621-64-7	N-Nitroso-di-n-propylamine	1	340	U	06/07/2011 01:11
98-95-3	Nitrobenzene	1	340	U	06/07/2011 01:11
78-59-1	Isophorone	1	340	U	06/07/2011 01:11
88-75-5	2-Nitrophenol	1	340	U	06/07/2011 01:11
105-67-9	2,4-Dimethylphenol	1	340	U	06/07/2011 01:11
111-91-1	bis(2-Chloroethoxy) methane	1	340	U	06/07/2011 01:11
120-83-2	2,4-Dichlorophenol	1	340	U	06/07/2011 01:11
120-82-1	1,2,4-Trichlorobenzene	1	340	U	06/07/2011 01:11
91-20-3	Naphthalene	1	340	U	06/07/2011 01:11
106-47-8	4-Chloroaniline	1	340	U	06/07/2011 01:11
87-68-3	Hexachlorobutadiene	1	340	U	06/07/2011 01:11
105-60-2	Caprolactam	1	340	U	06/07/2011 01:11
59-50-7	4-Chloro-3-methylphenol	1	340	U	06/07/2011 01:11
91-57-6	2-Methylnaphthalene	1	340	U	06/07/2011 01:11
77-47-4	Hexachlorocyclopentadiene	1	340	U	06/07/2011 01:11
88-06-2	2,4,6-Trichlorophenol	1	340	U	06/07/2011 01:11
95-95-4	2,4,5-Trichlorophenol	1	340	U	06/07/2011 01:11
92-52-4	1,1'-Biphenyl	1	340	U	06/07/2011 01:11
91-58-7	2-Chloronaphthalene	1	340	U	06/07/2011 01:11
88-74-4	2-Nitroaniline	1	340	U	06/07/2011 01:11
208-96-8	Acenaphthylene	1	340	U	06/07/2011 01:11
131-11-3	Dimethyl phthalate	1	340	U	06/07/2011 01:11
606-20-2	2,6-Dinitrotoluene	1	340	U	06/07/2011 01:11
99-09-2	3-Nitroaniline	1	340	U	06/07/2011 01:11
83-32-9	Acenaphthene	1	340	U	06/07/2011 01:11
51-28-5	2,4-Dinitrophenol	1	340	U	06/07/2011 01:11
132-64-9	Dibenzofuran	1	340	U	06/07/2011 01:11
100-02-7	4-Nitrophenol	1	340	U	06/07/2011 01:11
121-14-2	2,4-Dinitrotoluene	1	340	U	06/07/2011 01:11
86-73-7	Fluorene	1	340	U	06/07/2011 01:11
84-66-2	Diethyl phthalate	1	340	U	06/07/2011 01:11
7005-72-3	4-Chlorophenyl-phenyl ether	1	340	U	06/07/2011 01:11
100-01-6	4-Nitroaniline	1	340	U	06/07/2011 01:11
534-52-1	4,6-Dinitro-2-methylphenol	1	340	U	06/07/2011 01:11
86-30-6	N-Nitrosodiphenylamine	1	340	U	06/07/2011 01:11
101-55-3	4-Bromophenyl-phenyl ether	1	340	U	06/07/2011 01:11
1912-24-9	Atrazine	1	340	U	06/07/2011 01:11
118-74-1	Hexachlorobenzene	1	340	U	06/07/2011 01:11
87-86-5	Pentachlorophenol	1	340	U	06/07/2011 01:11
85-01-8	Phenanthrene	1	340	U	06/07/2011 01:11
120-12-7	Anthracene	1	340	U	06/07/2011 01:11

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-SB05 S

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-004
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 2.2

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	340	U	06/07/2011 01:11
84-74-2	Di-n-butyl phthalate	1	340	U	06/07/2011 01:11
206-44-0	Fluoranthene	1	340	U	06/07/2011 01:11
129-00-0	Pyrene	1	340	U	06/07/2011 01:11
85-68-7	Butyl benzyl phthalate	1	340	U	06/07/2011 01:11
56-55-3	Benzo(a)anthracene	1	340	U	06/07/2011 01:11
91-94-1	3,3'-Dichlorobenzidine	1	340	U	06/07/2011 01:11
218-01-9	Chrysene	1	340	U	06/07/2011 01:11
117-81-7	bis(2-Ethylhexyl) phthalate	1	340	U	06/07/2011 01:11
117-84-0	Di-n-octyl phthalate	1	340	U	06/07/2011 01:11
205-99-2	Benzo(b)fluoranthene	1	340	U	06/07/2011 01:11
207-08-9	Benzo(k)fluoranthene	1	340	U	06/07/2011 01:11
50-32-8	Benzo(a)pyrene	1	340	U	06/07/2011 01:11
193-39-5	Indeno(1,2,3-cd)pyrene	1	340	U	06/07/2011 01:11
53-70-3	Dibenz(a,h)anthracene	1	340	U	06/07/2011 01:11
191-24-2	Benzo(g,h,i)perylene	1	340	U	06/07/2011 01:11

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PP-SB05 S

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-004
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 2.2

CAS No.	Compound	RT	Dilution Factor	Concentration	Qualifier	Analysis Time
000123-42-2	2-Pentanone, 4-hydroxy-4-met	4.77	1	34000	J N	06/09/2011 01:11

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-MW06 D

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-005
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 6.7

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	360	U	06/07/2011 01:47
108-95-2	Phenol	1	360	U	06/07/2011 01:47
95-57-8	2-Chlorophenol	1	360	U	06/07/2011 01:47
111-44-4	bis(2-Chloroethyl) ether	1	360	U	06/07/2011 01:47
541-73-1	1,3-Dichlorobenzene	1	360	U	06/07/2011 01:47
106-46-7	1,4-Dichlorobenzene	1	360	U	06/07/2011 01:47
95-50-1	1,2-Dichlorobenzene	1	360	U	06/07/2011 01:47
95-48-7	2-Methylphenol	1	360	U	06/07/2011 01:47
108-60-1	2,2'-oxybis(1-Chloropropane)	1	360	U	06/07/2011 01:47
67-72-1	Hexachloroethane	1	360	U	06/07/2011 01:47
98-86-2	Acetophenone	1	360	U	06/07/2011 01:47
106-44-5	4-Methylphenol	1	360	U	06/07/2011 01:47
621-64-7	N-Nitroso-di-n-propylamine	1	360	U	06/07/2011 01:47
98-95-3	Nitrobenzene	1	360	U	06/07/2011 01:47
78-59-1	Isophorone	1	360	U	06/07/2011 01:47
88-75-5	2-Nitrophenol	1	360	U	06/07/2011 01:47
105-67-9	2,4-Dimethylphenol	1	360	U	06/07/2011 01:47
111-91-1	bis(2-Chloroethoxy) methane	1	360	U	06/07/2011 01:47
120-83-2	2,4-Dichlorophenol	1	360	U	06/07/2011 01:47
120-82-1	1,2,4-Trichlorobenzene	1	360	U	06/07/2011 01:47
91-20-3	Naphthalene	1	360	U	06/07/2011 01:47
106-47-8	4-Chloroaniline	1	360	U	06/07/2011 01:47
87-68-3	Hexachlorobutadiene	1	360	U	06/07/2011 01:47
105-60-2	Caprolactam	1	360	U	06/07/2011 01:47
59-50-7	4-Chloro-3-methylphenol	1	360	U	06/07/2011 01:47
91-57-6	2-Methylnaphthalene	1	360	U	06/07/2011 01:47
77-47-4	Hexachlorocyclopentadiene	1	360	U	06/07/2011 01:47
88-06-2	2,4,6-Trichlorophenol	1	360	U	06/07/2011 01:47
95-95-4	2,4,5-Trichlorophenol	1	360	U	06/07/2011 01:47
92-52-4	1,1'-Biphenyl	1	360	U	06/07/2011 01:47
91-58-7	2-Chloronaphthalene	1	360	U	06/07/2011 01:47
88-74-4	2-Nitroaniline	1	360	U	06/07/2011 01:47
208-96-8	Acenaphthylene	1	360	U	06/07/2011 01:47
131-11-3	Dimethyl phthalate	1	360	U	06/07/2011 01:47
606-20-2	2,6-Dinitrotoluene	1	360	U	06/07/2011 01:47
99-09-2	3-Nitroaniline	1	360	U	06/07/2011 01:47
83-32-9	Acenaphthene	1	360	U	06/07/2011 01:47
51-28-5	2,4-Dinitrophenol	1	360	U	06/07/2011 01:47
132-64-9	Dibenzofuran	1	360	U	06/07/2011 01:47
100-02-7	4-Nitrophenol	1	360	U	06/07/2011 01:47
121-14-2	2,4-Dinitrotoluene	1	360	U	06/07/2011 01:47
86-73-7	Fluorene	1	360	U	06/07/2011 01:47
84-66-2	Diethyl phthalate	1	360	U	06/07/2011 01:47
7005-72-3	4-Chlorophenyl-phenyl ether	1	360	U	06/07/2011 01:47
100-01-6	4-Nitroaniline	1	360	U	06/07/2011 01:47
534-52-1	4,6-Dinitro-2-methylphenol	1	360	U	06/07/2011 01:47
86-30-6	N-Nitrosodiphenylamine	1	360	U	06/07/2011 01:47
101-55-3	4-Bromophenyl-phenyl ether	1	360	U	06/07/2011 01:47
1912-24-9	Atrazine	1	360	U	06/07/2011 01:47
118-74-1	Hexachlorobenzene	1	360	U	06/07/2011 01:47
87-86-5	Pentachlorophenol	1	360	U	06/07/2011 01:47
85-01-8	Phenanthrene	1	360	U	06/07/2011 01:47
120-12-7	Anthracene	1	360	U	06/07/2011 01:47

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-MW06 D

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-005
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 6.7

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	360	U	06/07/2011 01:47
84-74-2	Di-n-butyl phthalate	1	360	U	06/07/2011 01:47
206-44-0	Fluoranthene	1	360	U	06/07/2011 01:47
129-00-0	Pyrene	1	360	U	06/07/2011 01:47
85-68-7	Butyl benzyl phthalate	1	360	U	06/07/2011 01:47
56-55-3	Benzo(a)anthracene	1	360	U	06/07/2011 01:47
91-94-1	3,3'-Dichlorobenzidine	1	360	U	06/07/2011 01:47
218-01-9	Chrysene	1	360	U	06/07/2011 01:47
117-81-7	bis(2-Ethylhexyl) phthalate	1	360	U	06/07/2011 01:47
117-84-0	Di-n-octyl phthalate	1	360	U	06/07/2011 01:47
205-99-2	Benzo(b)fluoranthene	1	360	U	06/07/2011 01:47
207-08-9	Benzo(k)fluoranthene	1	360	U	06/07/2011 01:47
50-32-8	Benzo(a)pyrene	1	360	U	06/07/2011 01:47
193-39-5	Indeno(1,2,3-cd)pyrene	1	360	U	06/07/2011 01:47
53-70-3	Dibenz(a,h)anthracene	1	360	U	06/07/2011 01:47
191-24-2	Benzo(g,h,i)perylene	1	360	U	06/07/2011 01:47

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PP-MW06 D

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-005
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 6.7

CAS No.	Compound	RT	Dilution Factor	Concentration	Qualifier	Analysis Time
000123-42-2	2-Pentanone, 4-hydroxy-4-met	4.77	1	32000	J N	06/09/2011 01:47

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-SB04 D

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-006
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 6.7

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	360	U	06/07/2011 02:24
108-95-2	Phenol	1	360	U	06/07/2011 02:24
95-57-8	2-Chlorophenol	1	360	U	06/07/2011 02:24
111-44-4	bis(2-Chloroethyl) ether	1	360	U	06/07/2011 02:24
541-73-1	1,3-Dichlorobenzene	1	360	U	06/07/2011 02:24
106-46-7	1,4-Dichlorobenzene	1	360	U	06/07/2011 02:24
95-50-1	1,2-Dichlorobenzene	1	360	U	06/07/2011 02:24
95-48-7	2-Methylphenol	1	360	U	06/07/2011 02:24
108-60-1	2,2'-oxybis(1-Chloropropane)	1	360	U	06/07/2011 02:24
67-72-1	Hexachloroethane	1	360	U	06/07/2011 02:24
98-86-2	Acetophenone	1	360	U	06/07/2011 02:24
106-44-5	4-Methylphenol	1	360	U	06/07/2011 02:24
621-64-7	N-Nitroso-di-n-propylamine	1	360	U	06/07/2011 02:24
98-95-3	Nitrobenzene	1	360	U	06/07/2011 02:24
78-59-1	Isophorone	1	360	U	06/07/2011 02:24
88-75-5	2-Nitrophenol	1	360	U	06/07/2011 02:24
105-67-9	2,4-Dimethylphenol	1	360	U	06/07/2011 02:24
111-91-1	bis(2-Chloroethoxy) methane	1	360	U	06/07/2011 02:24
120-83-2	2,4-Dichlorophenol	1	360	U	06/07/2011 02:24
120-82-1	1,2,4-Trichlorobenzene	1	360	U	06/07/2011 02:24
91-20-3	Naphthalene	1	360	U	06/07/2011 02:24
106-47-8	4-Chloroaniline	1	360	U	06/07/2011 02:24
87-68-3	Hexachlorobutadiene	1	360	U	06/07/2011 02:24
105-60-2	Caprolactam	1	360	U	06/07/2011 02:24
59-50-7	4-Chloro-3-methylphenol	1	360	U	06/07/2011 02:24
91-57-6	2-Methylnaphthalene	1	360	U	06/07/2011 02:24
77-47-4	Hexachlorocyclopentadiene	1	360	U	06/07/2011 02:24
88-06-2	2,4,6-Trichlorophenol	1	360	U	06/07/2011 02:24
95-95-4	2,4,5-Trichlorophenol	1	360	U	06/07/2011 02:24
92-52-4	1,1'-Biphenyl	1	360	U	06/07/2011 02:24
91-58-7	2-Chloronaphthalene	1	360	U	06/07/2011 02:24
88-74-4	2-Nitroaniline	1	360	U	06/07/2011 02:24
208-96-8	Acenaphthylene	1	360	U	06/07/2011 02:24
131-11-3	Dimethyl phthalate	1	360	U	06/07/2011 02:24
606-20-2	2,6-Dinitrotoluene	1	360	U	06/07/2011 02:24
99-09-2	3-Nitroaniline	1	360	U	06/07/2011 02:24
83-32-9	Acenaphthene	1	360	U	06/07/2011 02:24
51-28-5	2,4-Dinitrophenol	1	360	U	06/07/2011 02:24
132-64-9	Dibenzofuran	1	360	U	06/07/2011 02:24
100-02-7	4-Nitrophenol	1	360	U	06/07/2011 02:24
121-14-2	2,4-Dinitrotoluene	1	360	U	06/07/2011 02:24
86-73-7	Fluorene	1	360	U	06/07/2011 02:24
84-66-2	Diethyl phthalate	1	360	U	06/07/2011 02:24
7005-72-3	4-Chlorophenyl-phenyl ether	1	360	U	06/07/2011 02:24
100-01-6	4-Nitroaniline	1	360	U	06/07/2011 02:24
534-52-1	4,6-Dinitro-2-methylphenol	1	360	U	06/07/2011 02:24
86-30-6	N-Nitrosodiphenylamine	1	360	U	06/07/2011 02:24
101-55-3	4-Bromophenyl-phenyl ether	1	360	U	06/07/2011 02:24
1912-24-9	Atrazine	1	360	U	06/07/2011 02:24
118-74-1	Hexachlorobenzene	1	360	U	06/07/2011 02:24
87-86-5	Pentachlorophenol	1	360	U	06/07/2011 02:24
85-01-8	Phenanthrene	1	360	U	06/07/2011 02:24
120-12-7	Anthracene	1	360	U	06/07/2011 02:24

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PP-SB04 D

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-006
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 6.7

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	360	U	06/07/2011 02:24
84-74-2	Di-n-butyl phthalate	1	360	U	06/07/2011 02:24
206-44-0	Fluoranthene	1	360	U	06/07/2011 02:24
129-00-0	Pyrene	1	360	U	06/07/2011 02:24
85-68-7	Butyl benzyl phthalate	1	360	U	06/07/2011 02:24
56-55-3	Benzo(a)anthracene	1	360	U	06/07/2011 02:24
91-94-1	3,3'-Dichlorobenzidine	1	360	U	06/07/2011 02:24
218-01-9	Chrysene	1	360	U	06/07/2011 02:24
117-81-7	bis(2-Ethylhexyl) phthalate	1	360	U	06/07/2011 02:24
117-84-0	Di-n-octyl phthalate	1	360	U	06/07/2011 02:24
205-99-2	Benzo(b)fluoranthene	1	360	U	06/07/2011 02:24
207-08-9	Benzo(k)fluoranthene	1	360	U	06/07/2011 02:24
50-32-8	Benzo(a)pyrene	1	360	U	06/07/2011 02:24
193-39-5	Indeno(1,2,3-cd)pyrene	1	360	U	06/07/2011 02:24
53-70-3	Dibenz(a,h)anthracene	1	360	U	06/07/2011 02:24
191-24-2	Benzo(g,h,i)perylene	1	360	U	06/07/2011 02:24

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PP-SB04 D

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: 1105054-006
Method: EPA 8270D Modified
Date/Time Received: 05/31/2011 14:10
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 6.7

CAS No.	Compound	RT	Dilution Factor	Concentration	Qualifier	Analysis Time
000123-42-2	2-Pentanone, 4-hydroxy-4-met	4.80	1	60000	J N	06/09/2011 02:24

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Method Blank

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: Method Blank
Method: EPA 8270D Modified
Date/Time Received:
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 0

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	330	U	06/08/2011 20:54
108-95-2	Phenol	1	330	U	06/08/2011 20:54
95-57-8	2-Chlorophenol	1	330	U	06/08/2011 20:54
111-44-4	bis(2-Chloroethyl) ether	1	330	U	06/08/2011 20:54
541-73-1	1,3-Dichlorobenzene	1	330	U	06/08/2011 20:54
106-46-7	1,4-Dichlorobenzene	1	330	U	06/08/2011 20:54
95-50-1	1,2-Dichlorobenzene	1	330	U	06/08/2011 20:54
95-48-7	2-Methylphenol	1	330	U	06/08/2011 20:54
108-60-1	2,2'-oxybis(1-Chloropropane)	1	330	U	06/08/2011 20:54
67-72-1	Hexachloroethane	1	330	U	06/08/2011 20:54
98-86-2	Acetophenone	1	330	U	06/08/2011 20:54
106-44-5	4-Methylphenol	1	330	U	06/08/2011 20:54
621-64-7	N-Nitroso-di-n-propylamine	1	330	U	06/08/2011 20:54
98-95-3	Nitrobenzene	1	330	U	06/08/2011 20:54
78-59-1	Isophorone	1	330	U	06/08/2011 20:54
88-75-5	2-Nitrophenol	1	330	U	06/08/2011 20:54
105-67-9	2,4-Dimethylphenol	1	330	U	06/08/2011 20:54
111-91-1	bis(2-Chloroethoxy) methane	1	330	U	06/08/2011 20:54
120-83-2	2,4-Dichlorophenol	1	330	U	06/08/2011 20:54
120-82-1	1,2,4-Trichlorobenzene	1	330	U	06/08/2011 20:54
91-20-3	Naphthalene	1	330	U	06/08/2011 20:54
106-47-8	4-Chloroaniline	1	330	U	06/08/2011 20:54
87-68-3	Hexachlorobutadiene	1	330	U	06/08/2011 20:54
105-60-2	Caprolactam	1	330	U	06/08/2011 20:54
59-50-7	4-Chloro-3-methylphenol	1	330	U	06/08/2011 20:54
91-57-6	2-Methylnaphthalene	1	330	U	06/08/2011 20:54
77-47-4	Hexachlorocyclopentadiene	1	330	U	06/08/2011 20:54
88-06-2	2,4,6-Trichlorophenol	1	330	U	06/08/2011 20:54
95-95-4	2,4,5-Trichlorophenol	1	330	U	06/08/2011 20:54
92-52-4	1,1'-Biphenyl	1	330	U	06/08/2011 20:54
91-58-7	2-Chloronaphthalene	1	330	U	06/08/2011 20:54
88-74-4	2-Nitroaniline	1	330	U	06/08/2011 20:54
208-96-8	Acenaphthylene	1	330	U	06/08/2011 20:54
131-11-3	Dimethyl phthalate	1	330	U	06/08/2011 20:54
606-20-2	2,6-Dinitrotoluene	1	330	U	06/08/2011 20:54
99-09-2	3-Nitroaniline	1	330	U	06/08/2011 20:54
83-32-9	Acenaphthene	1	330	U	06/08/2011 20:54
51-28-5	2,4-Dinitrophenol	1	330	U	06/08/2011 20:54
132-64-9	Dibenzofuran	1	330	U	06/08/2011 20:54
100-02-7	4-Nitrophenol	1	330	U	06/08/2011 20:54
121-14-2	2,4-Dinitrotoluene	1	330	U	06/08/2011 20:54
86-73-7	Fluorene	1	330	U	06/08/2011 20:54
84-66-2	Diethyl phthalate	1	330	U	06/08/2011 20:54
7005-72-3	4-Chlorophenyl-phenyl ether	1	330	U	06/08/2011 20:54
100-01-6	4-Nitroaniline	1	330	U	06/08/2011 20:54
534-52-1	4,6-Dinitro-2-methylphenol	1	330	U	06/08/2011 20:54
86-30-6	N-Nitrosodiphenylamine	1	330	U	06/08/2011 20:54
101-55-3	4-Bromophenyl-phenyl ether	1	330	U	06/08/2011 20:54
1912-24-9	Atrazine	1	330	U	06/08/2011 20:54
118-74-1	Hexachlorobenzene	1	330	U	06/08/2011 20:54
87-86-5	Pentachlorophenol	1	330	U	06/08/2011 20:54
85-01-8	Phenanthrene	1	330	U	06/08/2011 20:54
120-12-7	Anthracene	1	330	U	06/08/2011 20:54

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Method Blank

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: Method Blank
Method: EPA 8270D Modified
Date/Time Received:
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 0

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	330	U	06/08/2011 20:54
84-74-2	Di-n-butyl phthalate	1	330	U	06/08/2011 20:54
206-44-0	Fluoranthene	1	330	U	06/08/2011 20:54
129-00-0	Pyrene	1	330	U	06/08/2011 20:54
85-68-7	Butyl benzyl phthalate	1	330	U	06/08/2011 20:54
56-55-3	Benzo(a)anthracene	1	330	U	06/08/2011 20:54
91-94-1	3,3'-Dichlorobenzidine	1	330	U	06/08/2011 20:54
218-01-9	Chrysene	1	330	U	06/08/2011 20:54
117-81-7	bis(2-Ethylhexyl) phthalate	1	330	U	06/08/2011 20:54
117-84-0	Di-n-octyl phthalate	1	330	U	06/08/2011 20:54
205-99-2	Benzo(b)fluoranthene	1	330	U	06/08/2011 20:54
207-08-9	Benzo(k)fluoranthene	1	330	U	06/08/2011 20:54
50-32-8	Benzo(a)pyrene	1	330	U	06/08/2011 20:54
193-39-5	Indeno(1,2,3-cd)pyrene	1	330	U	06/08/2011 20:54
53-70-3	Dibenz(a,h)anthracene	1	330	U	06/08/2011 20:54
191-24-2	Benzo(g,h,i)perylene	1	330	U	06/08/2011 20:54

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Method Blank 2

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: Method Blank 2
Method: EPA 8270D Modified
Date/Time Received:
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 0

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	330	U	06/08/2011 21:31
108-95-2	Phenol	1	330	U	06/08/2011 21:31
95-57-8	2-Chlorophenol	1	330	U	06/08/2011 21:31
111-44-4	bis(2-Chloroethyl) ether	1	330	U	06/08/2011 21:31
541-73-1	1,3-Dichlorobenzene	1	330	U	06/08/2011 21:31
106-46-7	1,4-Dichlorobenzene	1	330	U	06/08/2011 21:31
95-50-1	1,2-Dichlorobenzene	1	330	U	06/08/2011 21:31
95-48-7	2-Methylphenol	1	330	U	06/08/2011 21:31
108-60-1	2,2'-oxybis(1-Chloropropane)	1	330	U	06/08/2011 21:31
67-72-1	Hexachloroethane	1	330	U	06/08/2011 21:31
98-86-2	Acetophenone	1	330	U	06/08/2011 21:31
106-44-5	4-Methylphenol	1	330	U	06/08/2011 21:31
621-64-7	N-Nitroso-di-n-propylamine	1	330	U	06/08/2011 21:31
98-95-3	Nitrobenzene	1	330	U	06/08/2011 21:31
78-59-1	Isophorone	1	330	U	06/08/2011 21:31
88-75-5	2-Nitrophenol	1	330	U	06/08/2011 21:31
105-67-9	2,4-Dimethylphenol	1	330	U	06/08/2011 21:31
111-91-1	bis(2-Chloroethoxy) methane	1	330	U	06/08/2011 21:31
120-83-2	2,4-Dichlorophenol	1	330	U	06/08/2011 21:31
120-82-1	1,2,4-Trichlorobenzene	1	330	U	06/08/2011 21:31
91-20-3	Naphthalene	1	330	U	06/08/2011 21:31
106-47-8	4-Chloroaniline	1	330	U	06/08/2011 21:31
87-68-3	Hexachlorobutadiene	1	330	U	06/08/2011 21:31
105-60-2	Caprolactam	1	330	U	06/08/2011 21:31
59-50-7	4-Chloro-3-methylphenol	1	330	U	06/08/2011 21:31
91-57-6	2-Methylnaphthalene	1	330	U	06/08/2011 21:31
77-47-4	Hexachlorocyclopentadiene	1	330	U	06/08/2011 21:31
88-06-2	2,4,6-Trichlorophenol	1	330	U	06/08/2011 21:31
95-95-4	2,4,5-Trichlorophenol	1	330	U	06/08/2011 21:31
92-52-4	1,1'-Biphenyl	1	330	U	06/08/2011 21:31
91-58-7	2-Chloronaphthalene	1	330	U	06/08/2011 21:31
88-74-4	2-Nitroaniline	1	330	U	06/08/2011 21:31
208-96-8	Acenaphthylene	1	330	U	06/08/2011 21:31
131-11-3	Dimethyl phthalate	1	330	U	06/08/2011 21:31
606-20-2	2,6-Dinitrotoluene	1	330	U	06/08/2011 21:31
99-09-2	3-Nitroaniline	1	330	U	06/08/2011 21:31
83-32-9	Acenaphthene	1	330	U	06/08/2011 21:31
51-28-5	2,4-Dinitrophenol	1	330	U	06/08/2011 21:31
132-64-9	Dibenzofuran	1	330	U	06/08/2011 21:31
100-02-7	4-Nitrophenol	1	330	U	06/08/2011 21:31
121-14-2	2,4-Dinitrotoluene	1	330	U	06/08/2011 21:31
86-73-7	Fluorene	1	330	U	06/08/2011 21:31
84-66-2	Diethyl phthalate	1	330	U	06/08/2011 21:31
7005-72-3	4-Chlorophenyl-phenyl ether	1	330	U	06/08/2011 21:31
100-01-6	4-Nitroaniline	1	330	U	06/08/2011 21:31
534-52-1	4,6-Dinitro-2-methylphenol	1	330	U	06/08/2011 21:31
86-30-6	N-Nitrosodiphenylamine	1	330	U	06/08/2011 21:31
101-55-3	4-Bromophenyl-phenyl ether	1	330	U	06/08/2011 21:31
1912-24-9	Atrazine	1	330	U	06/08/2011 21:31
118-74-1	Hexachlorobenzene	1	330	U	06/08/2011 21:31
87-86-5	Pentachlorophenol	1	330	U	06/08/2011 21:31
85-01-8	Phenanthrene	1	330	U	06/08/2011 21:31
120-12-7	Anthracene	1	330	U	06/08/2011 21:31

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Method Blank 2

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1105054
Matrix: Soil
Lab Sample ID: Method Blank 2
Method: EPA 8270D Modified
Date/Time Received:
Concentration Units (ug/L or mg/kg dry weight) : UG/KG
Percent Moisture: 0

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	330	U	06/08/2011 21:31
84-74-2	Di-n-butyl phthalate	1	330	U	06/08/2011 21:31
206-44-0	Fluoranthene	1	330	U	06/08/2011 21:31
129-00-0	Pyrene	1	330	U	06/08/2011 21:31
85-68-7	Butyl benzyl phthalate	1	330	U	06/08/2011 21:31
56-55-3	Benzo(a)anthracene	1	330	U	06/08/2011 21:31
91-94-1	3,3'-Dichlorobenzidine	1	330	U	06/08/2011 21:31
218-01-9	Chrysene	1	330	U	06/08/2011 21:31
117-81-7	bis(2-Ethylhexyl) phthalate	1	330	U	06/08/2011 21:31
117-84-0	Di-n-octyl phthalate	1	330	U	06/08/2011 21:31
205-99-2	Benzo(b)fluoranthene	1	330	U	06/08/2011 21:31
207-08-9	Benzo(k)fluoranthene	1	330	U	06/08/2011 21:31
50-32-8	Benzo(a)pyrene	1	330	U	06/08/2011 21:31
193-39-5	Indeno(1,2,3-cd)pyrene	1	330	U	06/08/2011 21:31
53-70-3	Dibenz(a,h)anthracene	1	330	U	06/08/2011 21:31
191-24-2	Benzo(g,h,i)perylene	1	330	U	06/08/2011 21:31

SYSTEM MONITORING COMPOUND REPORT

Lab Name: DNREC Environmental Laboratory Section **Lab Order ID:** 1105054

Test Group Semivolatiles **QCBatchID:** SVOA-1105054

Matrix Type: Soil

ELS Sample Number	QC Number	SMC1	SMC2	SMC3	SMC4	SMC5	SMC6	SMC7	SMC8	Total Out
1105054-002		74	81	73	79	82	81	71	79	1
1105054-003		76	86	75	80	84	83	53	84	0
1105054-004		74	79	73	78	79	80	52	79	0
1105054-005		82	91	80	85	87	87	73	90	0
1105054-006		71	78	69	72	78	80	73	80	0
LCS-S	1	78	81	76	93	92	92	74	84	0
Method Blank	1	66	73	64	76	77	78	56	81	0
Method Blank 2	1	105	97	108	112	129 *	141 *	72	82	2
MSD-S	1	84	81	85	110	119	136 *	74	79	1
MS-S	1	79	83	75	79	82	81	77	85	0

		QC Limits
SMC1	2-Fluorophenol	25-121
SMC2	Phenol-d5	24-113
SMC3	2-Chlorophenol-d4	20-130
SMC4	1,2-Dichlorobenzene-d4	20-130
SMC5	Nitrobenzene-d5	23-120
SMC6	2-Fluorobiphenyl	30-115
SMC7	2,4,6-Tribromophenol	19-122
SMC8	Terphenyl-d14	18-137

MATRIX SPIKE / MATRIX SPIKE DUPLICATE / DUPLICATE RECOVERY

Lab Name: DNREC Environmental Laboratory Section **Lab Order ID:** 1105054

Test Group SVOA **QCBatchID:** SVOA-1105054

Matrix Spike - Sample No.: 1105054-002 **Matrix Type:** Solid

Matrix Spike							
Compound	Spike Added	Sample Concentration	QC Sample Concentration	Percent Recovery	RPD	QC Limits	
						RPD	REC.
1,2,4-Trichlorobenze	1801.802	ND	1500	83			38-107
1,4-Dichlorobenzene	1801.802	ND	1500	81			28-104
2,4-Dinitrotoluene	1801.802	ND	1500	84			28-89
2-Chlorophenol	2702.703	ND	2200	81			25-102
4-Chloro-3-methylph	2702.703	ND	2200	83			26-103
4-Nitrophenol	2702.703	ND	1900	70			11-114
Acenaphthene	1801.802	ND	1500	84			31-137
N-Nitroso-di-n-propyl	1801.802	ND	1600	87			41-126
Pentachlorophenol	2702.703	ND	1900	70			17-109
Phenol	2702.703	ND	2300	84			26-90
Pyrene	1801.802	ND	1600	90			35-142

Matrix Spike Duplicate							
Compound	Spike Added	Sample Concentration	QC Sample Concentration	Percent Recovery	RPD	QC Limits	
						RPD	REC.
1,2,4-Trichlorobenze	1801.802	ND	2200	124 *	40 *	0-23	38-107
1,4-Dichlorobenzene	1801.802	ND	2000	109 *	30 *	0-27	28-104
2,4-Dinitrotoluene	1801.802	ND	1400	79	6	0-47	28-89
2-Chlorophenol	2702.703	ND	2500	94	15	0-50	25-102
4-Chloro-3-methylph	2702.703	ND	2400	89	7	0-33	26-103
4-Nitrophenol	2702.703	ND	1800	68	2	0-50	11-114
Acenaphthene	1801.802	ND	2400	134	45 *	0-19	31-137
N-Nitroso-di-n-propyl	1801.802	ND	1700	92	6	0-38	41-126
Pentachlorophenol	2702.703	ND	2200	81	14	0-47	17-109
Phenol	2702.703	ND	2300	87	3	0-35	26-90
Pyrene	1801.802	ND	1600	87	3	0-36	35-142

*** Values outside of QC Limits**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE / DUPLICATE RECOVERY

Lab Name: DNREC Environmental Laboratory Section **Lab Order ID:** 1105054

Test Group SVOA **QCBatchID:** SVOA-1105054

Matrix Spike - Sample No.: LCS-S **Matrix Type:** Solid

LCS							
Compound	Spike Added	Sample Concentration	QC Sample Concentration	Percent Recovery	RPD	QC Limits	
						RPD	REC.
1,2,4-Trichlorobenze	1666.667		1800	106			38-107
1,4-Dichlorobenzene	1666.667		1600	93			28-104
2,4-Dinitrotoluene	1666.667		1400	84			28-89
2-Chlorophenol	2500.000		2000	81			25-102
4-Chloro-3-methylph	2500.000		1900	77			26-103
4-Nitrophenol	2500.000		1600	63			11-114
Acenaphthene	1666.667		1600	94			31-137
N-Nitroso-di-n-propyl	1666.667		1400	84			41-126
Pentachlorophenol	2500.000		590	23			17-109
Phenol	2500.000		2000	81			26-90
Pyrene	1666.667		1500	87			35-142

*** Values outside of QC Limits**

GC/MS QA-QC Check Report

Tune File : C:\MSDCHEM.1\DATA\MS60608L.MIZ\A07776.D
Tune Time : 8 Jun 2011 5:26 pm

Daily Calibration File : C:\MSDCHEM.1\DATA\MS60608L.MIZ\A07777.D

(2FP)	(PHL)	(2CP)	(DCB)	(DCB)	(NPT)	(ANT)
				36787	143644	82683

(NBZ)	(FBP)	(TBP)	(TPH)	(PHN)	(CRY)	(PRY)
				147378	179408	160112

File	Sample	Surrogate Recovery %				Internal Standard Responses		
A07782.D	METHOD B	66	73	64	76	35342	135653	78993
		77	78	56	81	140737	153517	140916
A07783.D	METHOD B	105	97	108	112	27633	103433	58677
		129*	141*	72	82	106484	116468	105499
A07784.D	LCS-S	78	81	76	93	29381	112352	67217
		92	92	74	84	138380	144286	120977
A07785.D	1105054-	74	82	73	79	38356	147456	85913
		84	84	71	98	150034	130517	117389
A07786.D	MS-S	79	83	75	79	40298	163237	94363
		82	81	77	85	172967	195795	177837
A07787.D	MSD-S	84	81	85	110	39789	156254	90228
		119*	136*	74	79	166502	176169	168310
A07788.D	1105054-	76	86	75	80	27714	112018	66734
		84	83	53	84	115026	128422	128514
A07789.D	1105054-	74	79	73	78	39744	155330	91531
		79	80	52	79	162041	202195	183778
A07790.D	1105054-	82	91	80	85	37622	155274	93423
		87	87	73	90	159322	180447	169758
A07791.D	1105054-	71	78	69	72	39652	154127	91970
		78	80	73	80	163908	192202	176081

t - fails 12hr time check * - fails criteria

Created: Thu Jun 09 11:11:01 2011 DEL6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07785.D Vial: 10
Acq On : 8 Jun 2011 10:44 pm Operator: MIZ
Sample : 1105054-002 Inst : DEL6
Misc : 1 SOIL Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 08:25:03 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.13	152	38356	20.00 ng/µl	0.00
19) Naphthalene-d8	7.68	136	147456	20.00 ng/µl	0.00
34) Acenaphthene-d10	10.61	164	85913	20.00 ng/µl	0.00
56) Phenanthrene-d10	13.47	188	150034	20.00 ng/µl	0.00
68) Chrysene-d12	18.88	240	130517	20.00 ng/µl	0.00
76) Perylene-d12	22.11	264	117389	20.00 ng/µl	0.01

System Monitoring Compounds

2) 2-Fluorophenol	4.98	112	191829	55.57 ng/µl	0.02
Spiked Amount 75.000	Range 25 - 121		Recovery = 74.09%		
4) Phenol-d5	5.73	99	286675	61.50 ng/µl	0.00
Spiked Amount 75.000	Range 24 - 113		Recovery = 82.00%		
6) 2-Chlorophenol-d4	5.93	132	168333	54.58 ng/µl	0.00
Spiked Amount 75.000	Range 20 - 130		Recovery = 72.77%		
11) 1,2-Dichlorobenzene-d4	6.34	152	83308	39.68 ng/µl	0.00
Spiked Amount 50.000	Range 20 - 130		Recovery = 79.36%		
20) Nitrobenzene-d5	6.76	82	195204	42.04 ng/µl	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 84.08%		
38) 2-Fluorobiphenyl	9.37	172	295340	41.85 ng/µl	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 83.70%		
55) 2,4,6-Tribromophenol	12.13	330	51437	53.08 ng/µl	0.00
Spiked Amount 75.000	Range 19 - 122		Recovery = 70.77%		
70) Terphenyl-d14	16.72	244	285908	48.95 ng/µl	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 97.90%		

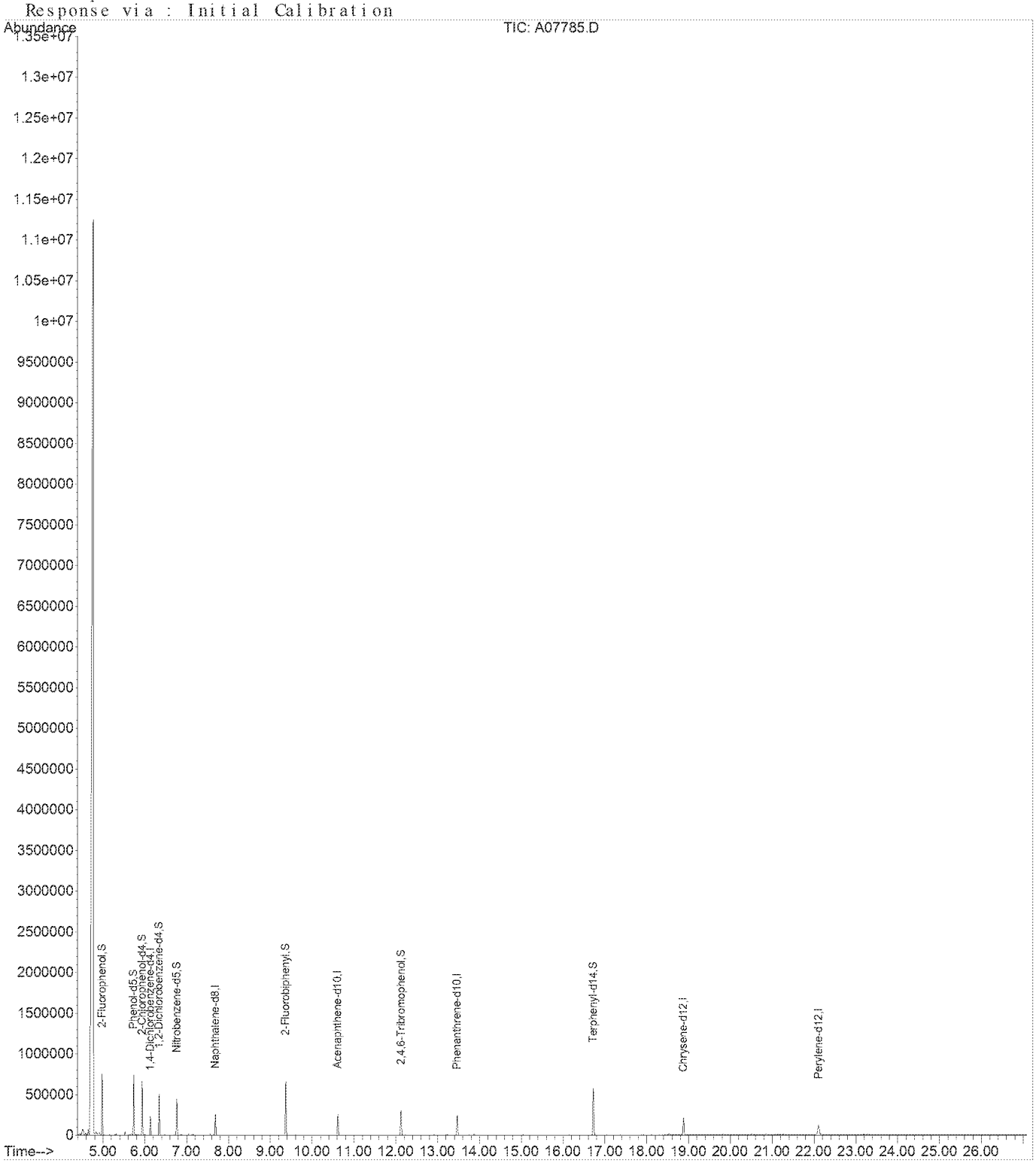
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM.1\DATA\MS60608L.MIZ\A07785.D Vial: 10
Acq On : 8 Jun 2011 10:44 pm Operator: MIZ
Sample : 1105054-002 Inst : DEL6
Msc : 1 SOIL Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 9:29 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM.1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\MS60608L.MIZ\A07785.D Vial: 10
Acq On : 8 Jun 2011 10:44 pm Operator: MIZ
Sample : 1105054-002 Inst : DEL6
Misc : 1 SOIL Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60609.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

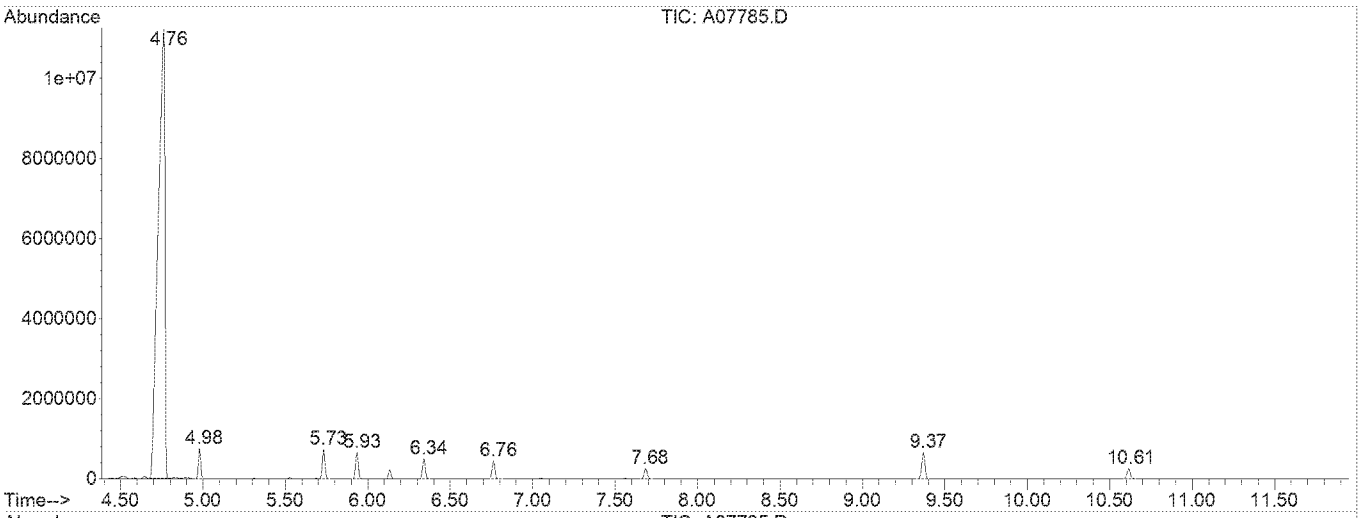
Signal : TIC

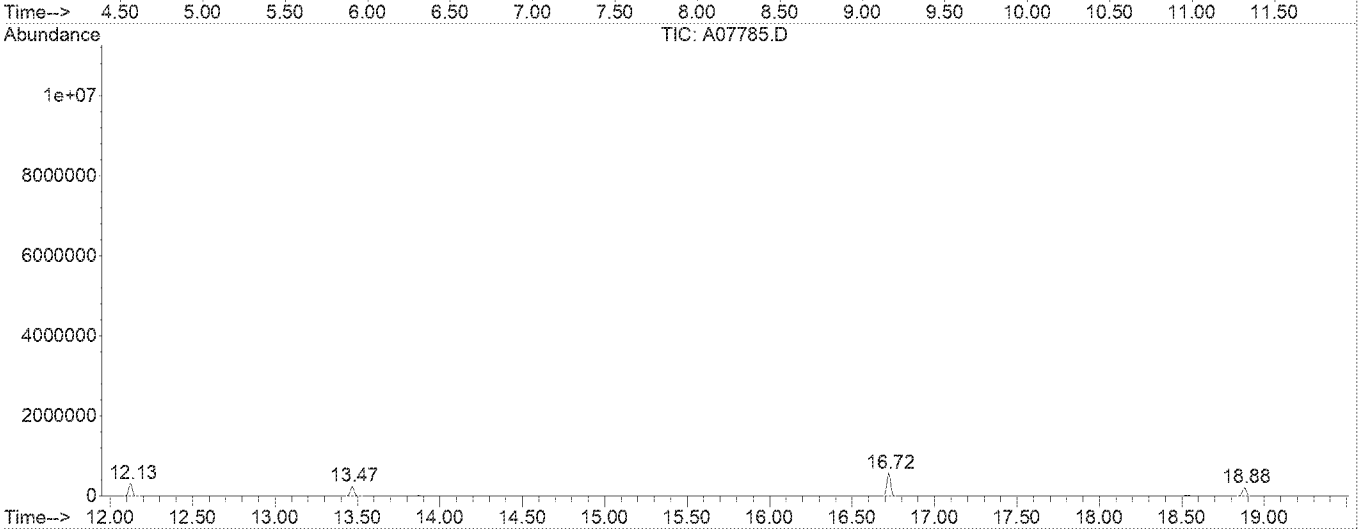
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.765	54	72	76	rBV	11236278	32243534	100.00%	80.555%
2	4.978	107	112	118	rVB	751670	758160	2.35%	1.894%
3	5.731	248	253	260	rBV	733619	813690	2.52%	2.033%
4	5.934	285	291	298	rBV	663647	772628	2.40%	1.930%
5	6.340	361	367	373	rBV	500778	618558	1.92%	1.545%
6	6.763	440	446	458	rVB	446117	561268	1.74%	1.402%
7	7.681	613	618	627	rVB	256633	367421	1.14%	0.918%
8	9.370	925	934	943	rBV	664267	936258	2.90%	2.339%
9	10.614	1159	1167	1175	rBV	252378	395080	1.23%	0.987%
10	12.126	1442	1450	1462	rBV2	304009	507975	1.58%	1.269%
11	13.467	1692	1701	1714	rVB	241548	400587	1.24%	1.001%
12	16.720	2302	2310	2318	rBV2	570891	954672	2.96%	2.385%
13	18.879	2706	2714	2722	rBV	208558	372340	1.15%	0.930%
14	22.105	3307	3318	3330	rBV4	115665	324782	1.01%	0.811%

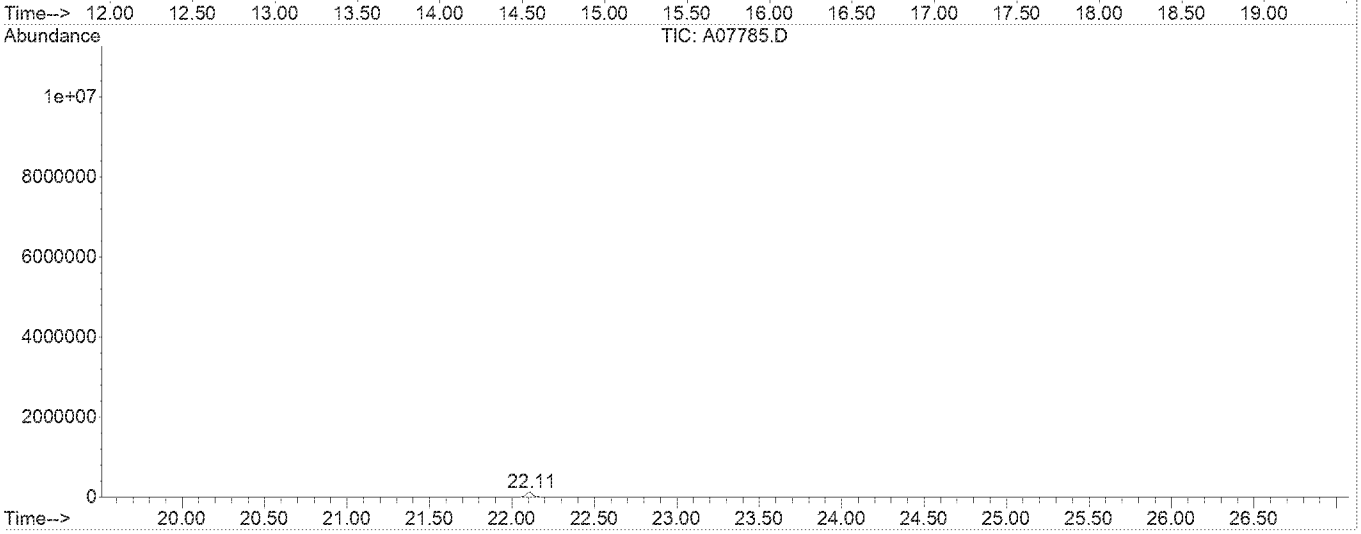
Sum of corrected areas: 40026953

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07785.D
Operator : MIZ
Acquired : 8 Jun 2011 10:44 pm using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: 1105054-002
Misc Info : 1 SOIL
Vial Number: 10
Quant File : I60609.RES (RTE Integrator)







Library Search Compound Report

Data File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07785.D Vial: 10
Acq On : 8 Jun 2011 10:44 pm Operator: MIZ
Sample : 1105054-002 Inst : DEL6
Misc : 1 SOIL Multiplr: 1.00
MS Integration Params: LSCINT.P

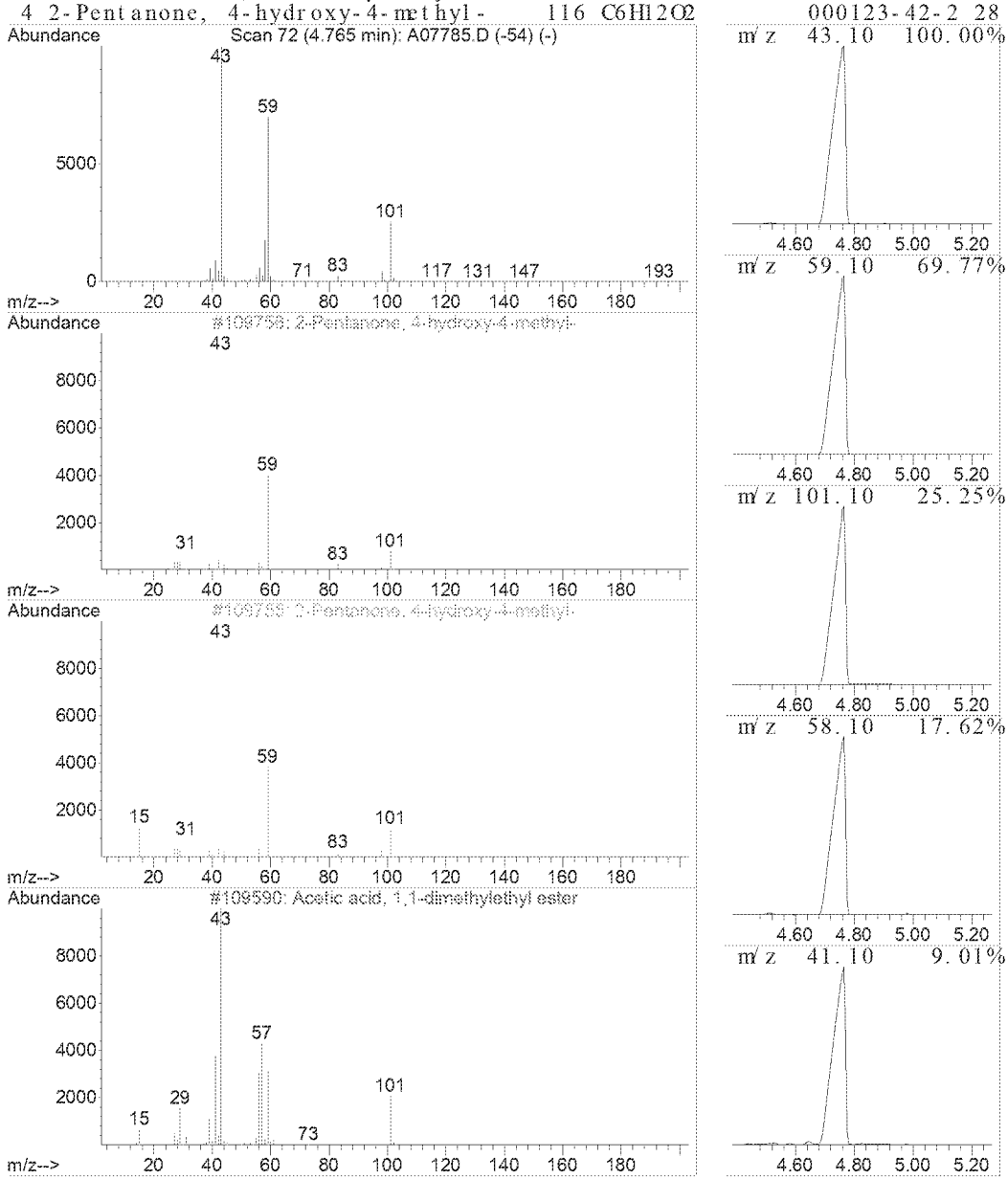
Quant Method : C:\MSDCHEM 1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	Est Conc	Area	Relative to ISTD	R.T.
4.76	834.65 ng/µl	32243500	1,4-Dichlorobenzene-d4	6.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	33
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	28



Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 8 Jun 2011 10:44 pm
Data File: C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07785.D
Name: 1105054-002
Misc: 1 SOIL
Method: C:\MSDCHEM 1\METHODS\I60609.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	Est Conc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
2-Pentanone, 4-hy...	4.76	834.6	ng/µl	32243500	1	6.13	772628	20.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07788.D Vial: 13
Acq On : 9 Jun 2011 12:34 am Operator: MIZ
Sample : 1105054-003 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 08:25:16 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.12	152	27714	20.00 ng/µl	0.00
19) Naphthalene-d8	7.67	136	112018	20.00 ng/µl	-0.02
34) Acenaphthene-d10	10.59	164	66734	20.00 ng/µl	-0.02
56) Phenanthrene-d10	13.45	188	115026	20.00 ng/µl	-0.02
68) Chrysene-d12	18.86	240	128422	20.00 ng/µl	-0.02
76) Perylene-d12	22.07	264	128514	20.00 ng/µl	-0.03

System Monitoring Compounds

2) 2-Fluorophenol	4.98	112	141669	56.80 ng/µl	0.02
Spiked Amount 75.000	Range 21 - 110		Recovery = 75.73%		
4) Phenol-d5	5.72	99	217849	64.68 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 86.24%		
6) 2-Chlorophenol-d4	5.92	132	124748	55.98 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 74.64%		
11) 1,2-Dichlorobenzene-d4	6.32	152	60968	40.19 ng/µl	-0.01
Spiked Amount 50.000	Range 16 - 110		Recovery = 80.38%		
20) Nitrobenzene-d5	6.75	82	147606	41.85 ng/µl	-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 83.70%		
38) 2-Fluorobiphenyl	9.35	172	227205	41.45 ng/µl	-0.02
Spiked Amount 50.000	Range 43 - 116		Recovery = 82.90%		
55) 2,4,6-Tribromophenol	12.10	330	29650	39.39 ng/µl	-0.02
Spiked Amount 75.000	Range 10 - 123		Recovery = 52.52%		
70) Terphenyl-d14	16.70	244	240433	41.83 ng/µl	-0.02
Spiked Amount 50.000	Range 33 - 141		Recovery = 83.66%		

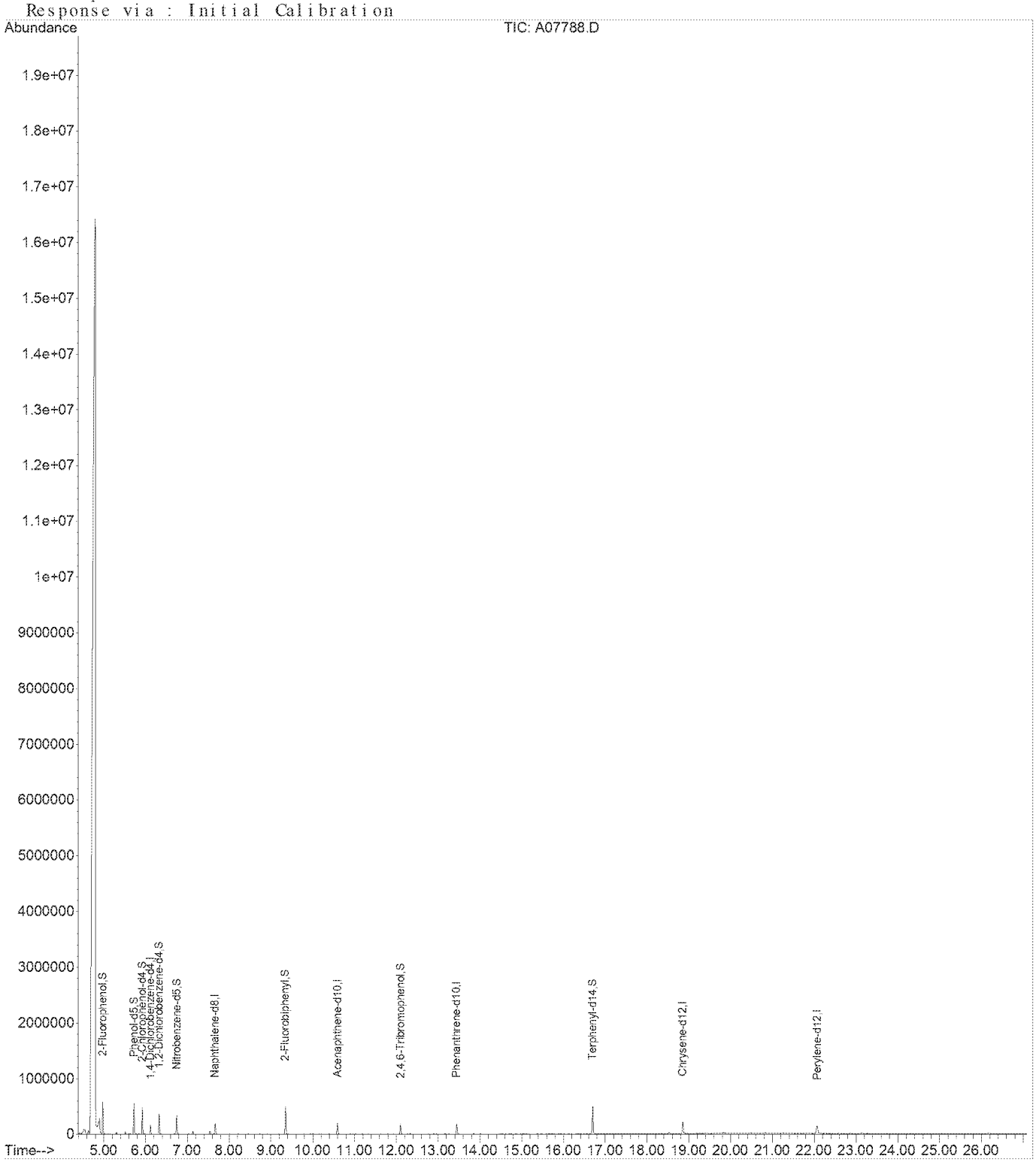
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07788.D Vial: 13
Acq On : 9 Jun 2011 12:34 am Operator: MIZ
Sample : 1105054-003 Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 9:32 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\MS60608L.MIZ\A07788.D Vial: 13
Acq On : 9 Jun 2011 12:34 am Operator: MIZ
Sample : 1105054-003 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60609.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

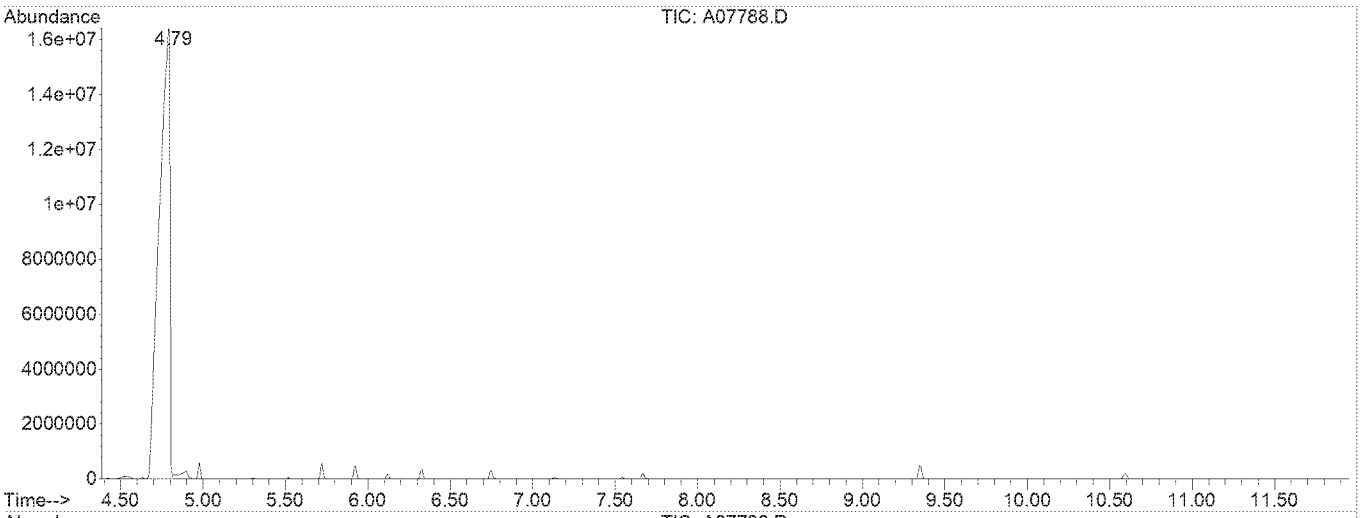
Signal : TIC

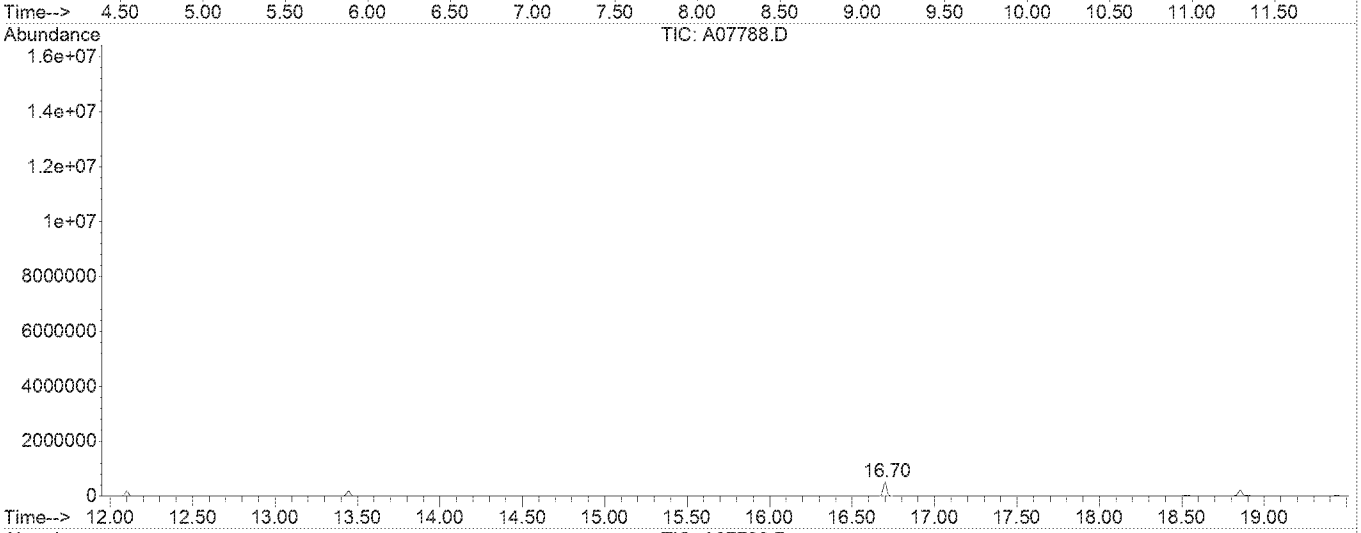
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.791	52	77	81	rBV	16404428	73434377	100.00%	98.913%
2	16.699	2298	2306	2315	rBV2	509011	806963	1.10%	1.087%

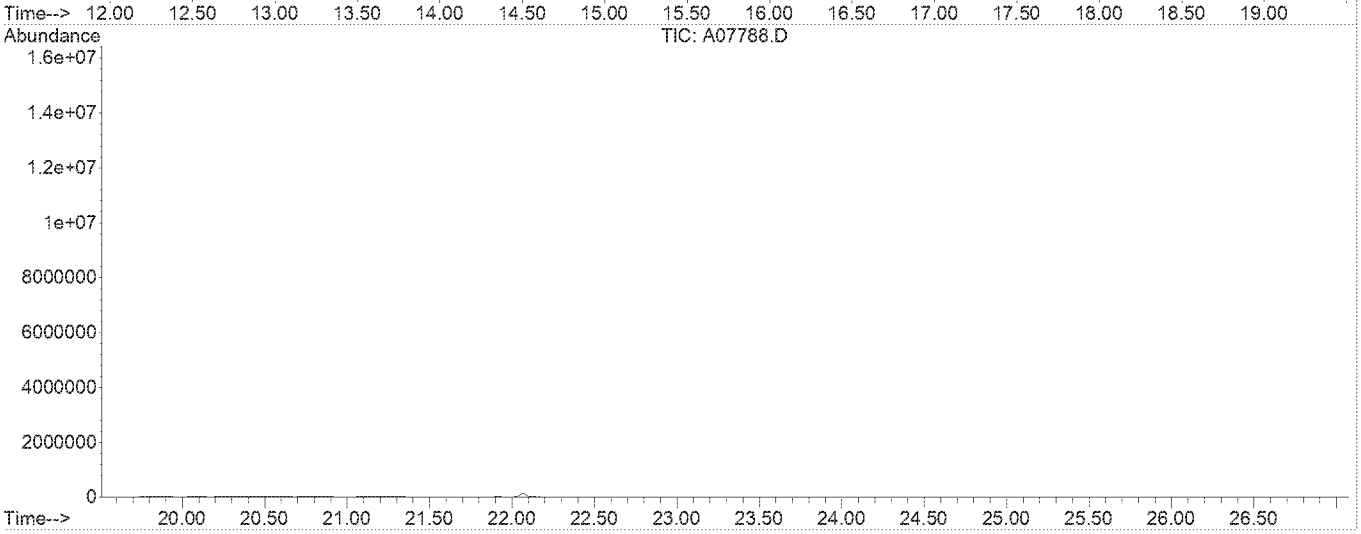
Sum of corrected areas: 74241340

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07788.D
Operator : MIZ
Acquired : 9 Jun 2011 12:34 am using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: 1105054-003
Misc Info : 1
Vial Number: 13
Quant File : I60609.RES (RTE Integrator)







Library Search Compound Report

Data File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07788.D Vial: 13
Acq On : 9 Jun 2011 12:34 am Operator: MIZ
Sample : 1105054-003 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

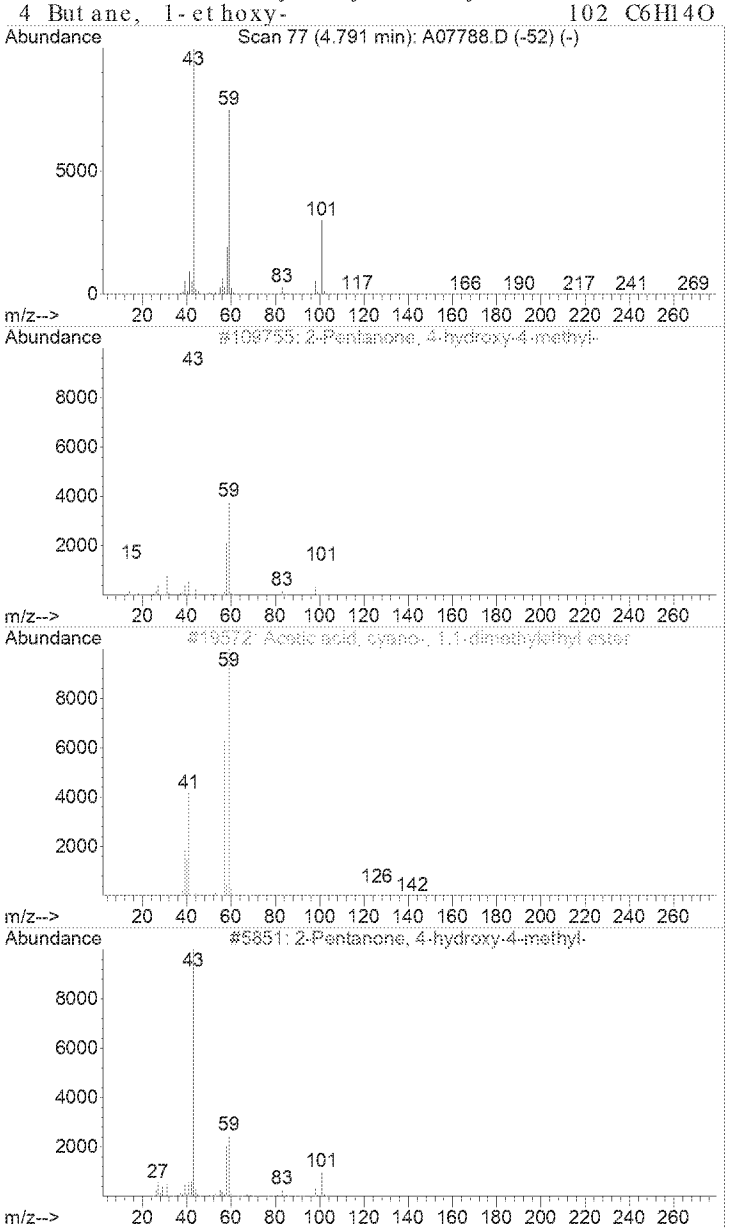
Quant Method : C:\MSDCHEM 1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Library : C:\DATABASE\NIST98.L

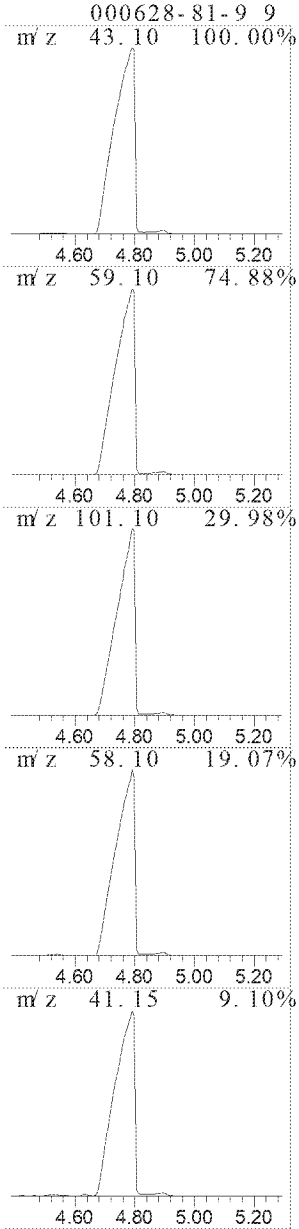
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	Est Conc	Area	Relative to ISTD	R.T.
4.79	20.00 ng/µl	73434400	1,4-Dichlorobenzene-d4	6.12

Hit# of 5	Tentative ID	MW	Mol Form	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	32
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	17
4	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 9 Jun 2011 12:34 am
Data File: C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07788.D
Name: 1105054-003
Misc: 1
Method: C:\MSDCHEM 1\METHODS\I60609.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	Est Conc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
2-Pentanone, 4-hy...	4.79	20.0	ng/µl	73434400	1	6.12	73434400	20.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07789.D Vial: 14
Acq On : 9 Jun 2011 1:11 am Operator: MIZ
Sample : 1105054-004 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 08:25:20 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.13	152	39744	20.00 ng/µl	0.00
19) Naphthalene-d8	7.69	136	155330	20.00 ng/µl	0.00
34) Acenaphthene-d10	10.61	164	91531	20.00 ng/µl	0.00
56) Phenanthrene-d10	13.47	188	162041	20.00 ng/µl	0.00
68) Chrysene-d12	18.88	240	202195	20.00 ng/µl	0.00
76) Perylene-d12	22.11	264	183778	20.00 ng/µl	0.01

System Monitoring Compounds

2) 2-Fluorophenol	4.98	112	197318	55.16 ng/µl	0.02
Spiked Amount 75.000	Range 21 - 110		Recovery = 73.55%		
4) Phenol-d5	5.73	99	287823	59.59 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 79.45%		
6) 2-Chlorophenol-d4	5.93	132	175875	55.03 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 73.37%		
11) 1,2-Dichlorobenzene-d4	6.34	152	85374	39.24 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 78.48%		
20) Nitrobenzene-d5	6.76	82	193046	39.47 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 78.94%		
38) 2-Fluorobiphenyl	9.37	172	299304	39.81 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 79.62%		
55) 2,4,6-Tribromophenol	12.13	330	40085	38.83 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 51.77%		
70) Terphenyl-d14	16.73	244	358026	39.56 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 79.12%		

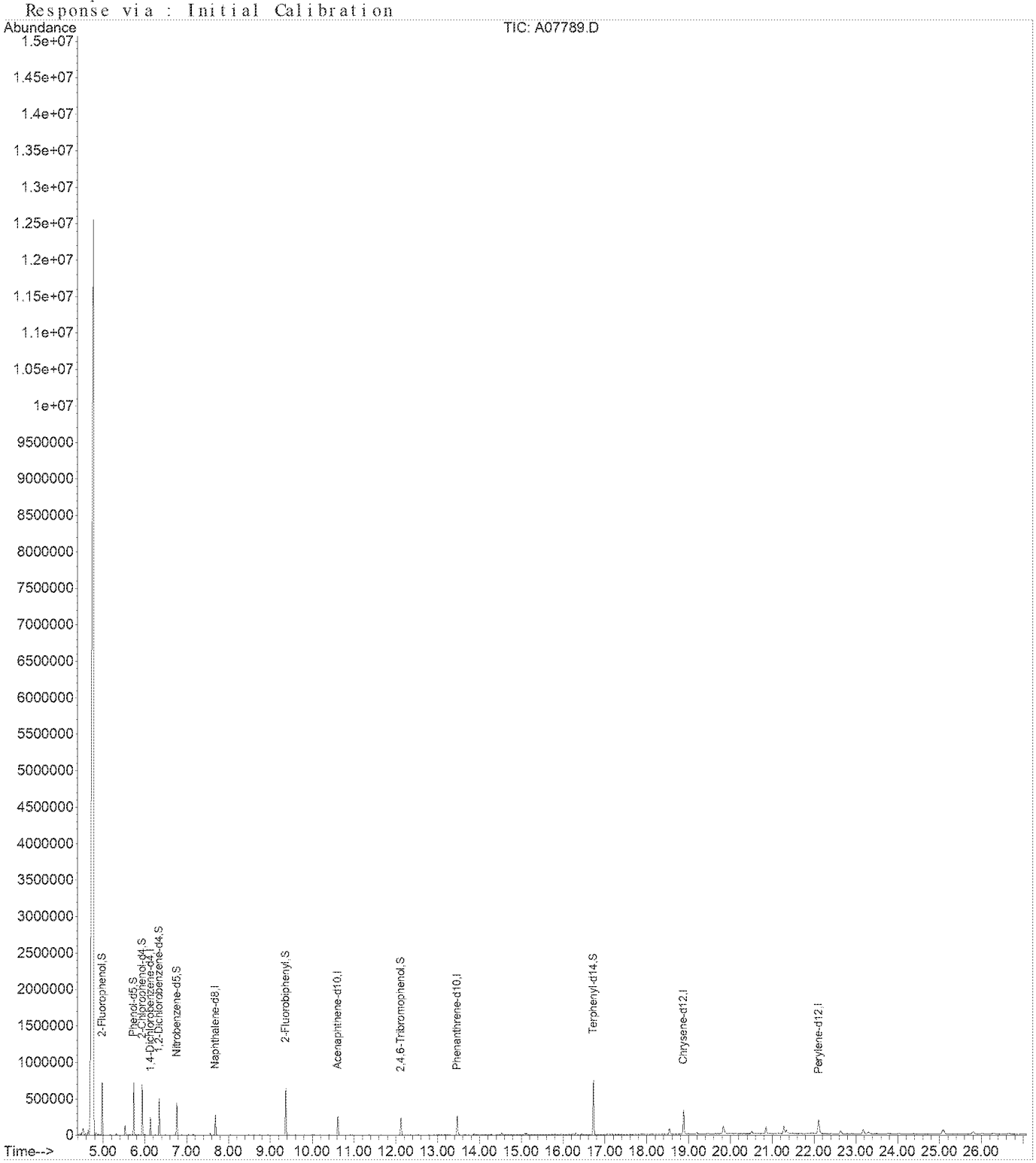
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07789.D Vial: 14
Acq On : 9 Jun 2011 1:11 am Operator: MIZ
Sample : 1105054-004 Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 9:33 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\MS60608L.MIZ\A07789.D Vial: 14
Acq On : 9 Jun 2011 1:11 am Operator: MIZ
Sample : 1105054-004 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60609.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

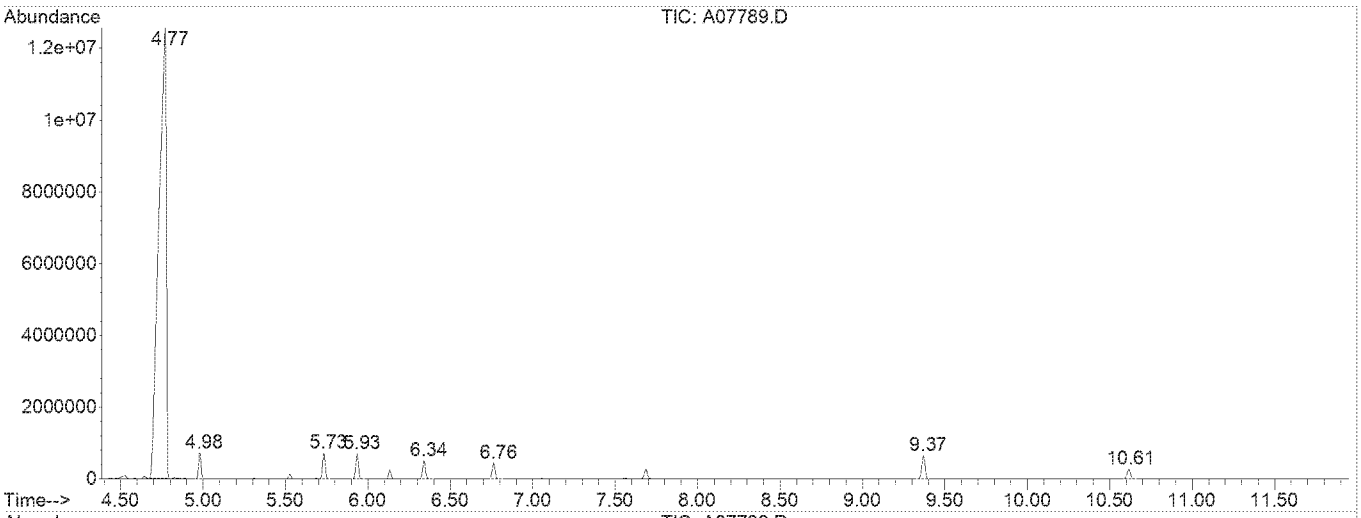
Signal : TIC

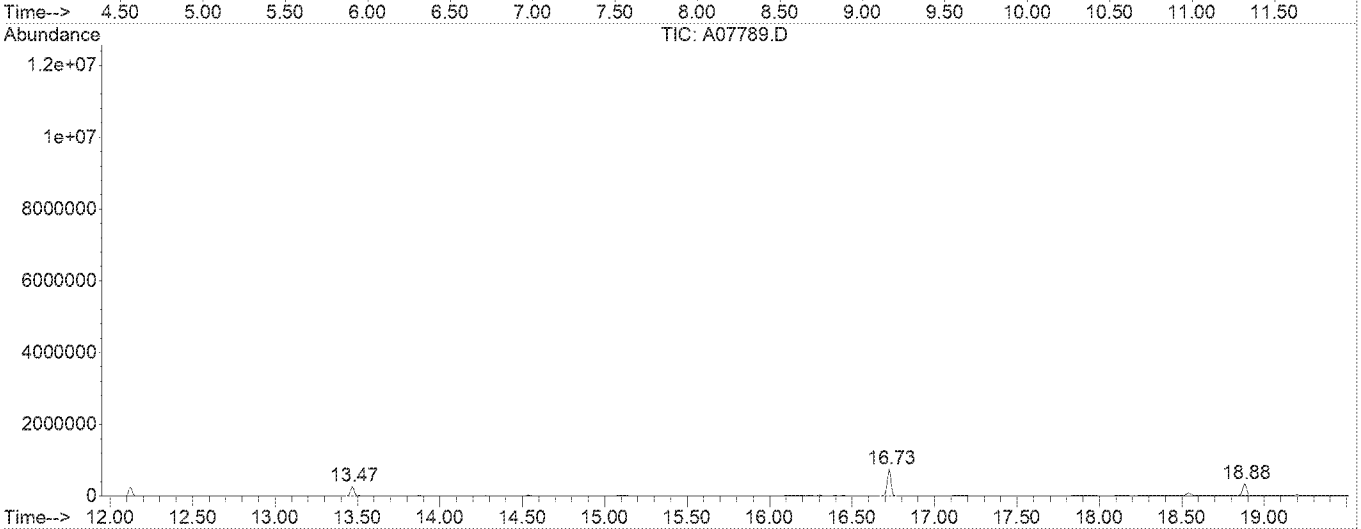
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.770	54	73	77	rBV	12539720	39510925	100.00%	83.705%
2	4.978	107	112	119	rVB	720315	789486	2.00%	1.673%
3	5.731	248	253	260	rBV	711962	817100	2.07%	1.731%
4	5.934	284	291	299	rBV	691171	800302	2.03%	1.695%
5	6.340	361	367	380	rBV	499023	633842	1.60%	1.343%
6	6.762	440	446	456	rVB	442806	555498	1.41%	1.177%
7	9.369	926	934	942	rBV	641364	940332	2.38%	1.992%
8	10.614	1159	1167	1176	rBV	274242	422481	1.07%	0.895%
9	13.467	1693	1701	1707	rBV	261753	435488	1.10%	0.923%
10	16.726	2298	2311	2319	rBV2	746725	1204290	3.05%	2.551%
11	18.878	2704	2714	2722	rBV	324593	573597	1.45%	1.215%
12	22.111	3308	3319	3336	rVB2	185572	519498	1.31%	1.101%

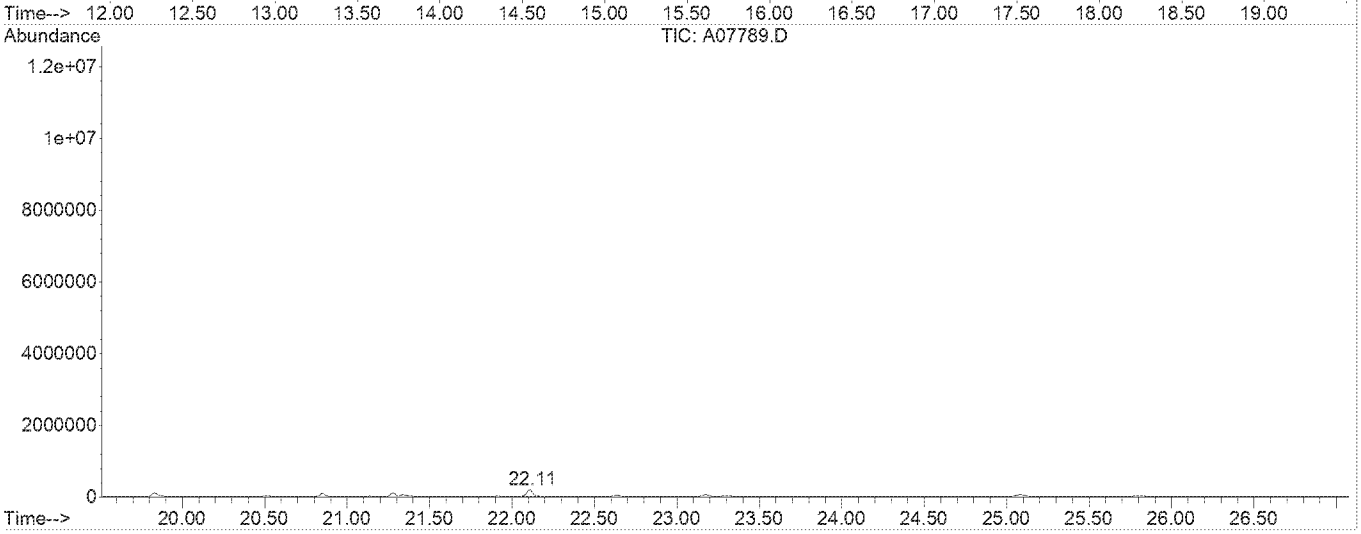
Sum of corrected areas: 47202839

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07789.D
Operator : MIZ
Acquired : 9 Jun 2011 1:11 am using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: 1105054-004
Misc Info : 1
Vial Number: 14
Quant File : I60609.RES (RTE Integrator)







Library Search Compound Report

Data File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07789.D Vial: 14
Acq On : 9 Jun 2011 1:11 am Operator: MIZ
Sample : 1105054-004 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

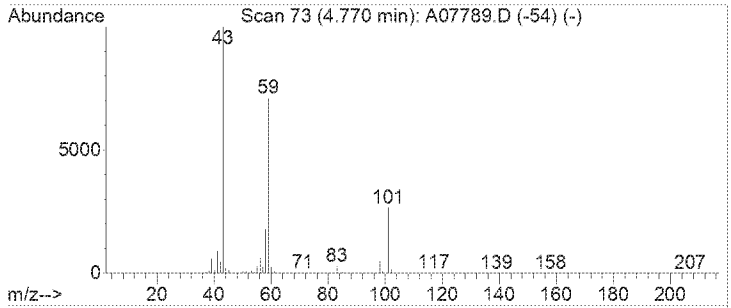
Quant Method : C:\MSDCHEM 1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Library : C:\DATABASE\NIST98.L

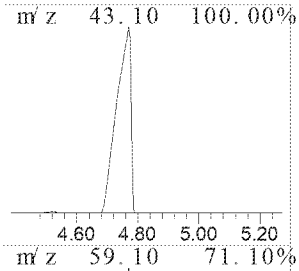
****

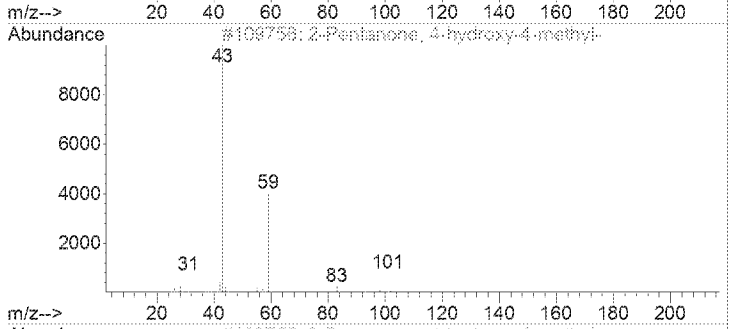
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

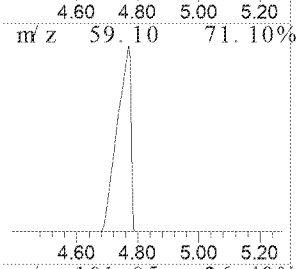
R.T.	Est Conc	Area	Relative to ISTD	R.T.
4.77	987.40 ng/µl	39510900	1,4-Dichlorobenzene-d4	6.13

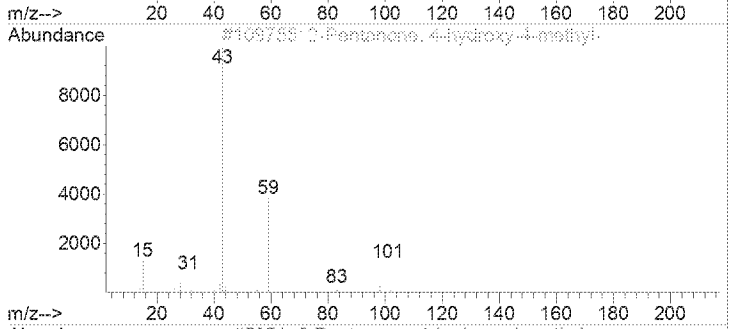
Hit# of 5	Tentative ID	MW	Mol Form	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	28
4	3-Pentanol	88	C5H12O	000584-02-1	25

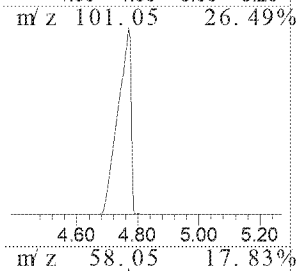


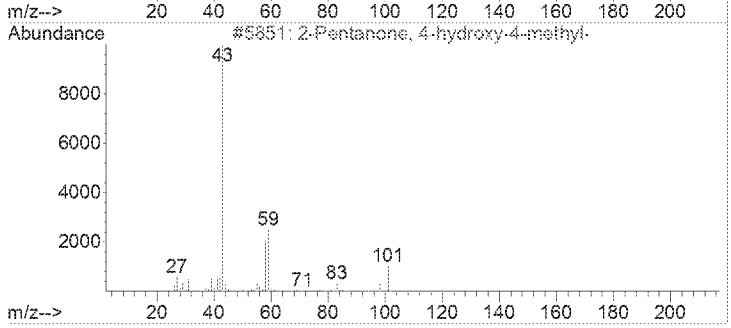


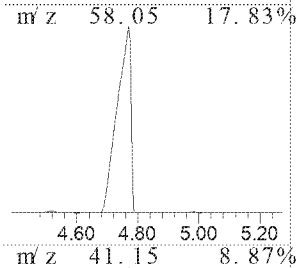


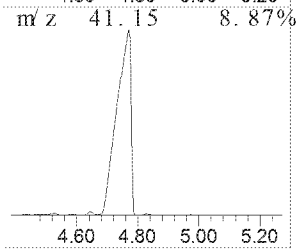












Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 9 Jun 2011 1:11 am
Data File: C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07789.D
Name: 1105054-004
Misc: 1
Method: C:\MSDCHEM 1\METHODS\I60609.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	Est Conc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
2-Pentanone, 4-hy...	4.77	987.4	ng/µl	39510900	1	6.13	800302	20.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07790.D Vial: 15
Acq On : 9 Jun 2011 1:47 am Operator: MIZ
Sample : 1105054-005 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 08:25:24 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.13	152	37622	20.00 ng/µl	0.00
19) Naphthalene-d8	7.69	136	155274	20.00 ng/µl	0.00
34) Acenaphthene-d10	10.61	164	93423	20.00 ng/µl	0.00
56) Phenanthrene-d10	13.47	188	159322	20.00 ng/µl	0.00
68) Chrysene-d12	18.88	240	180447	20.00 ng/µl	0.00
76) Perylene-d12	22.11	264	169758	20.00 ng/µl	0.01

System Monitoring Compounds

2) 2-Fluorophenol	4.98	112	208919	61.70 ng/µl	0.02
Spiked Amount 75.000	Range 21 - 110		Recovery = 82.27%		
4) Phenol-d5	5.74	99	312968	68.45 ng/µl	0.01
Spiked Amount 75.000	Range 10 - 110		Recovery = 91.27%		
6) 2-Chlorophenol-d4	5.93	132	182521	60.33 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 80.44%		
11) 1,2-Dichlorobenzene-d4	6.34	152	87878	42.67 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 85.34%		
20) Nitrobenzene-d5	6.76	82	212894	43.54 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 87.08%		
38) 2-Fluorobiphenyl	9.37	172	334557	43.60 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 87.20%		
55) 2,4,6-Tribromophenol	12.13	330	57523	54.59 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 72.79%		
70) Terphenyl-d14	16.73	244	361492	44.76 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 89.52%		

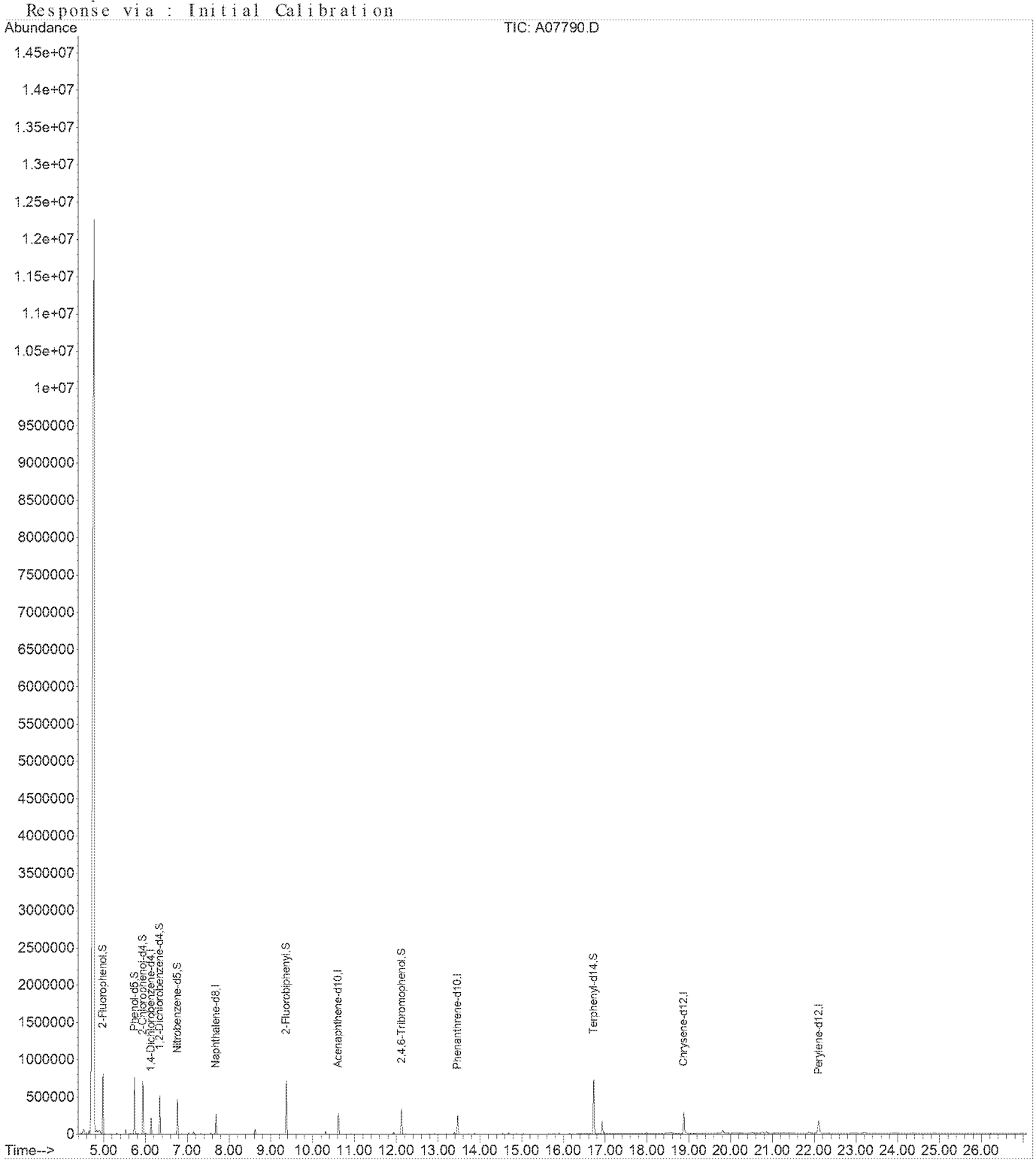
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07790.D Vial: 15
Acq On : 9 Jun 2011 1:47 am Operator: MIZ
Sample : 1105054-005 Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 9:34 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\MS60608L.MIZ\A07790.D Vial: 15
Acq On : 9 Jun 2011 1:47 am Operator: MIZ
Sample : 1105054-005 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60609.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

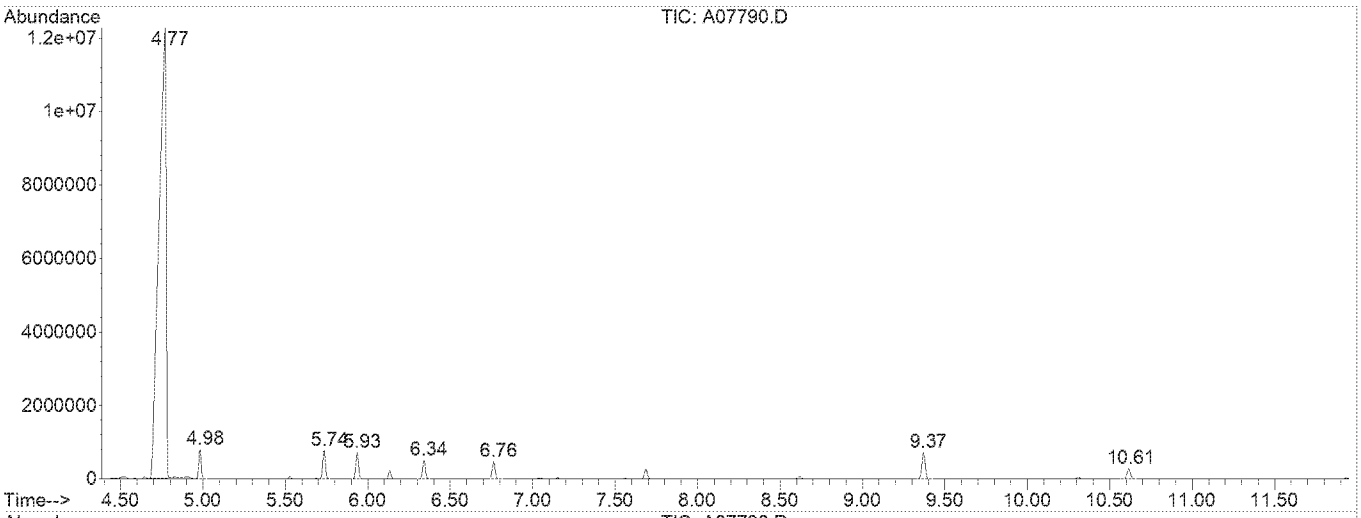
Signal : TIC

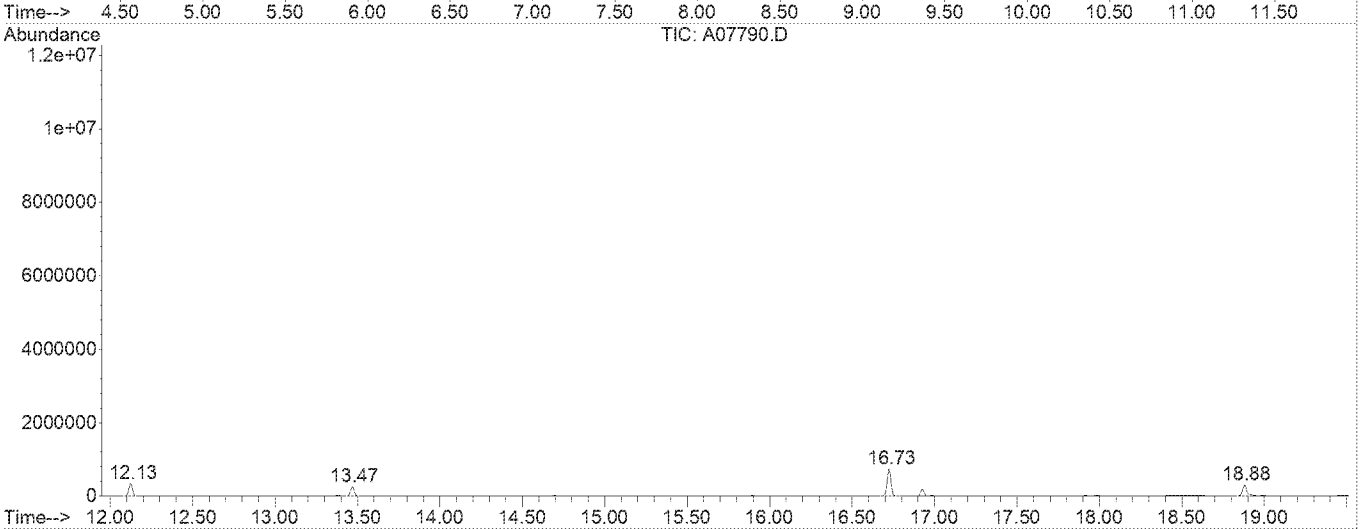
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.770	54	73	77	rBV	12254647	37108672	100.00%	81.392%
2	4.983	108	113	120	rVB	804357	837509	2.26%	1.837%
3	5.737	248	254	261	rBV	761344	891110	2.40%	1.955%
4	5.934	285	291	298	rBV	711135	838115	2.26%	1.838%
5	6.340	359	367	376	rBV	515958	643146	1.73%	1.411%
6	6.762	440	446	456	rVB	469306	602799	1.62%	1.322%
7	9.369	927	934	946	rBV	723865	1050250	2.83%	2.304%
8	10.614	1158	1167	1177	rBV	278517	429437	1.16%	0.942%
9	12.126	1441	1450	1458	rBV2	337702	556778	1.50%	1.221%
10	13.467	1693	1701	1709	rBV	250482	424845	1.14%	0.932%
11	16.726	2301	2311	2322	rBV2	726683	1214470	3.27%	2.664%
12	18.879	2706	2714	2720	rBV	287415	508253	1.37%	1.115%
13	22.111	3308	3319	3333	rVB2	169191	486909	1.31%	1.068%

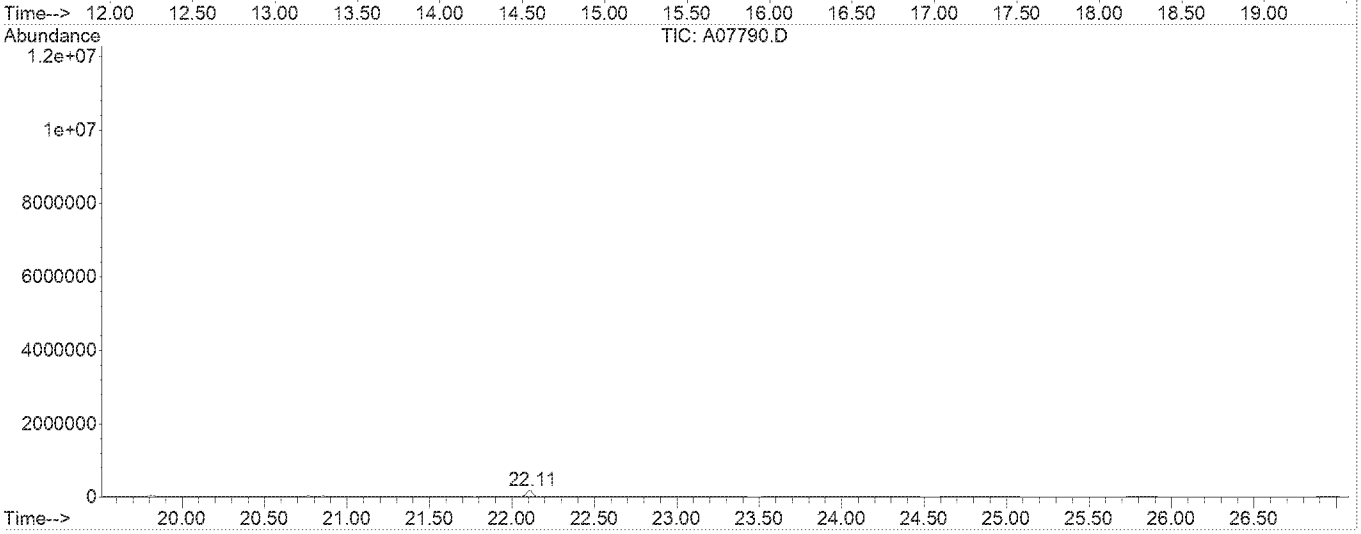
Sum of corrected areas: 45592293

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07790.D
Operator : MIZ
Acquired : 9 Jun 2011 1:47 am using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: 1105054-005
Misc Info : 1
Vial Number: 15
Quant File : I60609.RES (RTE Integrator)







Library Search Compound Report

Data File : C:\MSDCHEM1\DATA\MS60608L.MIZ\A07790.D Vial: 15
Acq On : 9 Jun 2011 1:47 am Operator: MIZ
Sample : 1105054-005 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

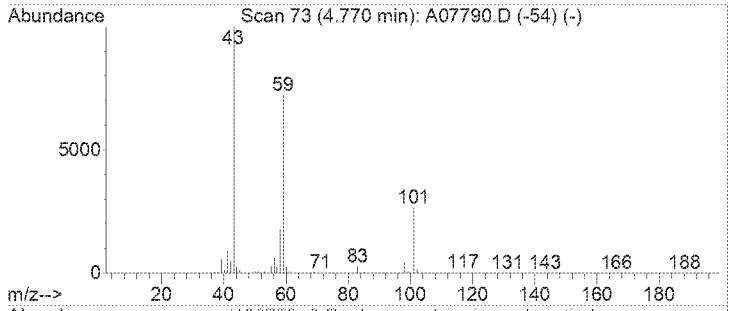
Quant Method : C:\MSDCHEM1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Library : C:\DATABASE\NIST98.L

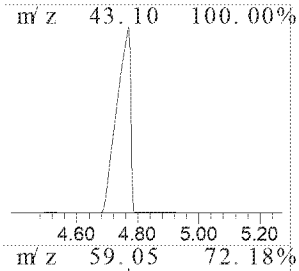
****

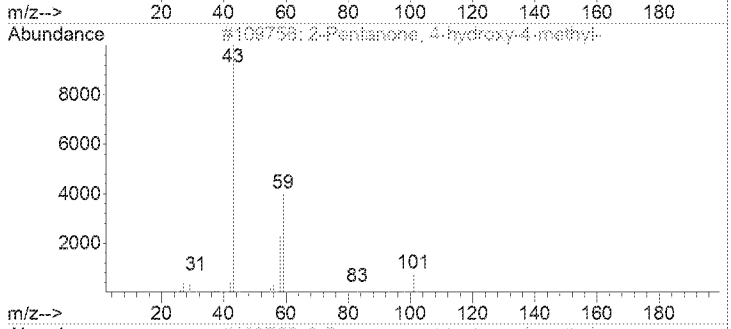
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

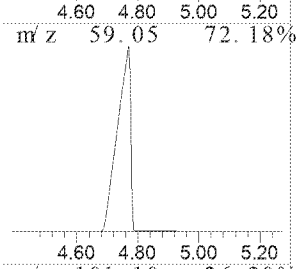
R.T.	Est Conc	Area	Relative to ISTD	R.T.
4.77	885.53 ng/µl	37108700	1,4-Dichlorobenzene-d4	6.13

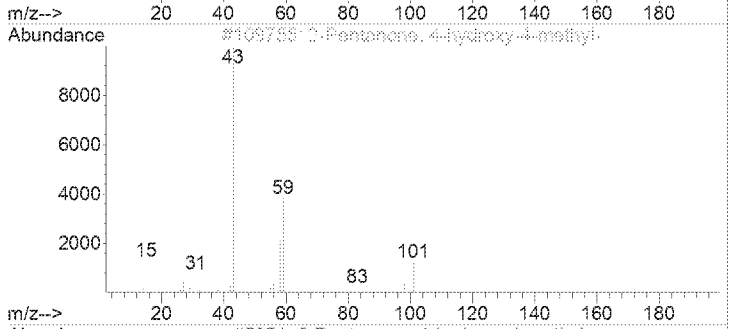
Hit# of 5	Tentative ID	MW	Mol Form	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	28
4	3-Pentanol	88	C5H12O	000584-02-1	25

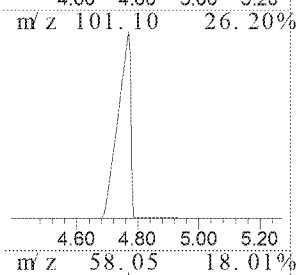


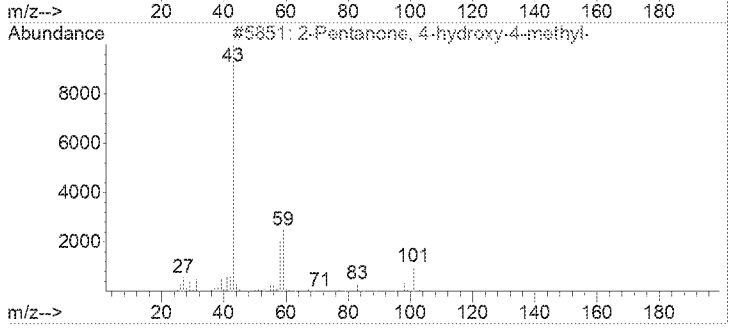


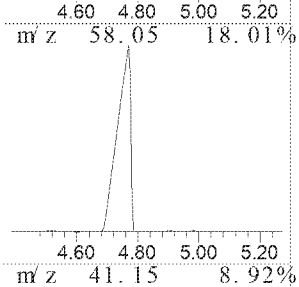


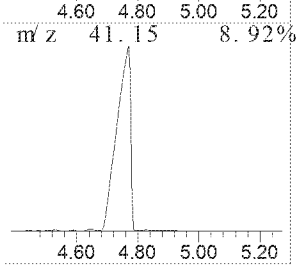












Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 9 Jun 2011 1:47 am
Data File: C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07790.D
Name: 1105054-005
Misc: 1
Method: C:\MSDCHEM 1\METHODS\I60609.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	Est Conc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
2-Pentanone, 4-hy...	4.77	885.5	ng/µl	37108700	1	6.13	838115	20.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07791.D Vial: 16
Acq On : 9 Jun 2011 2:24 am Operator: MIZ
Sample : 1105054-006 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 08:25:28 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.13	152	39652	20.00 ng/µl	0.00
19) Naphthalene-d8	7.69	136	154127	20.00 ng/µl	0.00
34) Acenaphthene-d10	10.61	164	91970	20.00 ng/µl	0.00
56) Phenanthrene-d10	13.47	188	163908	20.00 ng/µl	0.00
68) Chrysene-d12	18.88	240	192202	20.00 ng/µl	0.00
76) Perylene-d12	22.11	264	176081	20.00 ng/µl	0.01

System Monitoring Compounds

2) 2-Fluorophenol	4.99	112	189253	53.03 ng/µl	0.03
Spiked Amount 75.000	Range 21 - 110		Recovery = 70.71%		
4) Phenol-d5	5.74	99	283422	58.81 ng/µl	0.01
Spiked Amount 75.000	Range 10 - 110		Recovery = 78.41%		
6) 2-Chlorophenol-d4	5.94	132	164221	51.50 ng/µl	0.01
Spiked Amount 75.000	Range 33 - 110		Recovery = 68.67%		
11) 1,2-Dichlorobenzene-d4	6.34	152	78186	36.02 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 72.04%		
20) Nitrobenzene-d5	6.76	82	189087	38.96 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 77.92%		
38) 2-Fluorobiphenyl	9.37	172	301889	39.96 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 79.92%		
55) 2,4,6-Tribromophenol	12.13	330	56436	54.41 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 72.55%		
70) Terphenyl-d14	16.73	244	343345	39.91 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 79.82%		

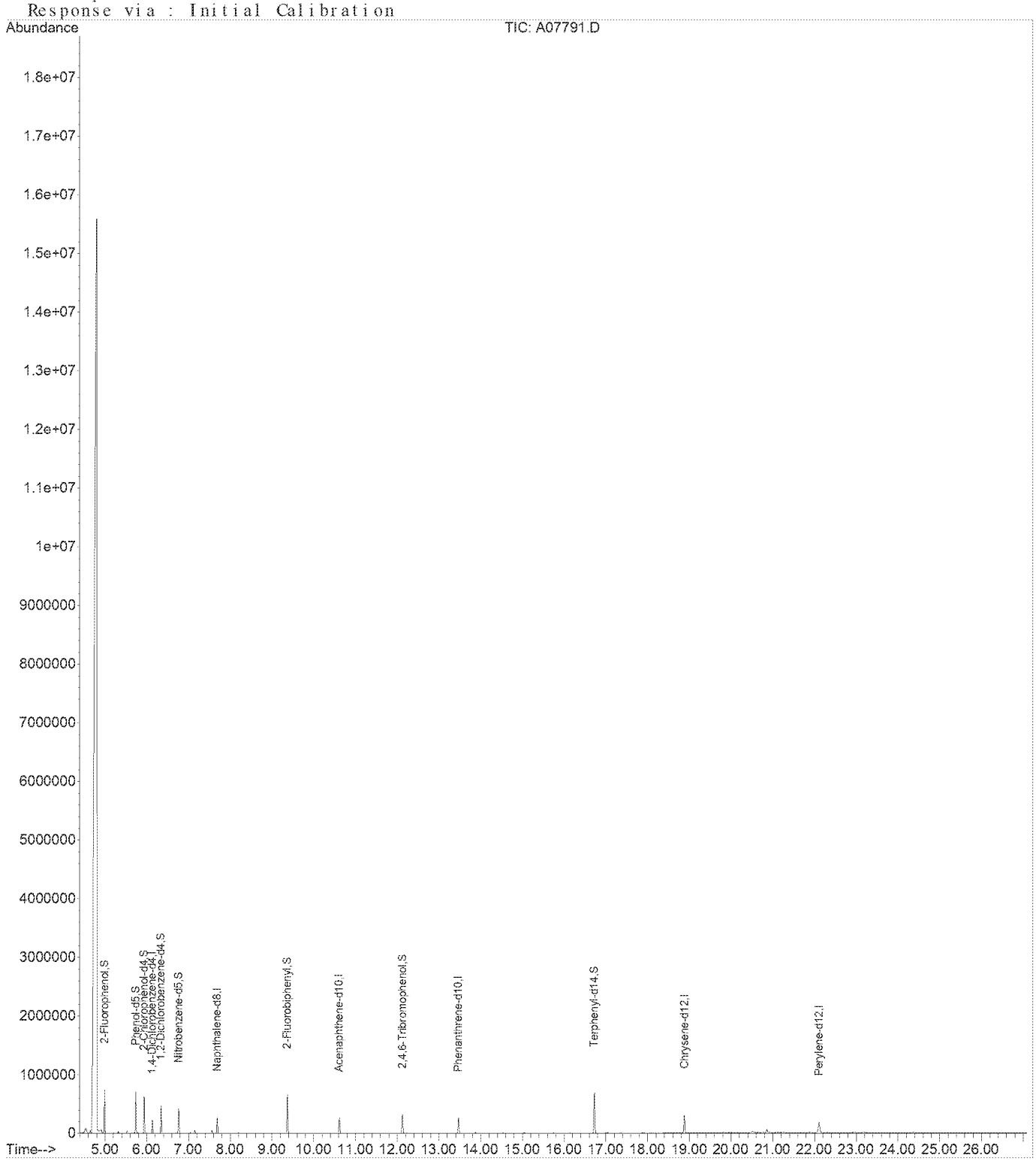
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07791.D Vial: 16
Acq On : 9 Jun 2011 2:24 am Operator: MIZ
Sample : 1105054-006 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 9:37 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\MS60608L.MIZ\A07791.D Vial: 16
Acq On : 9 Jun 2011 2:24 am Operator: MIZ
Sample : 1105054-006 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60609.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

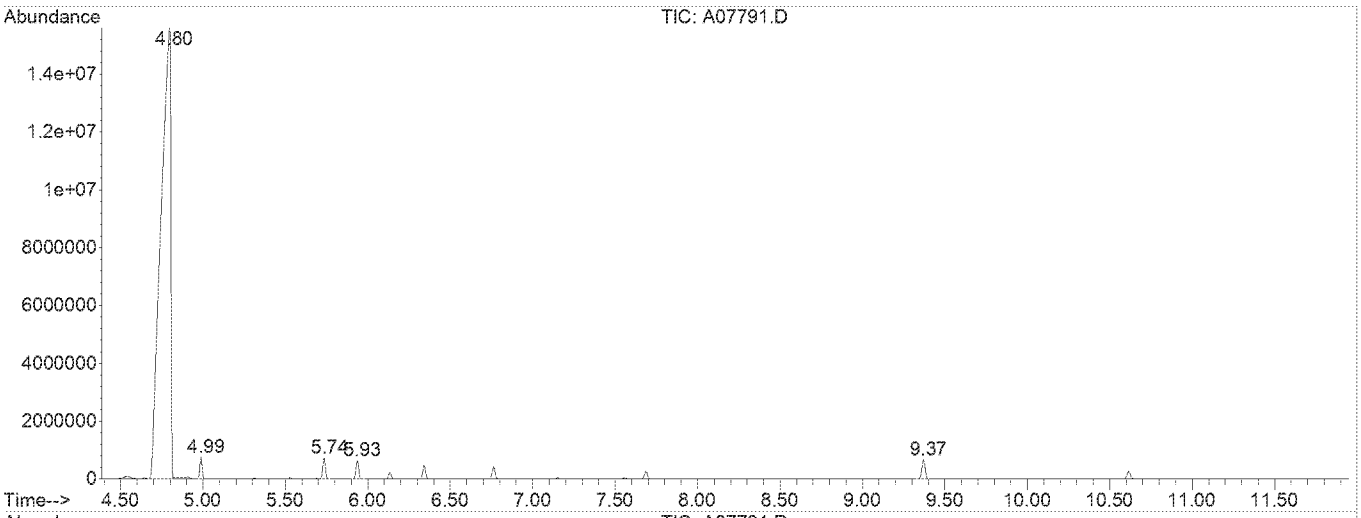
Signal : TIC

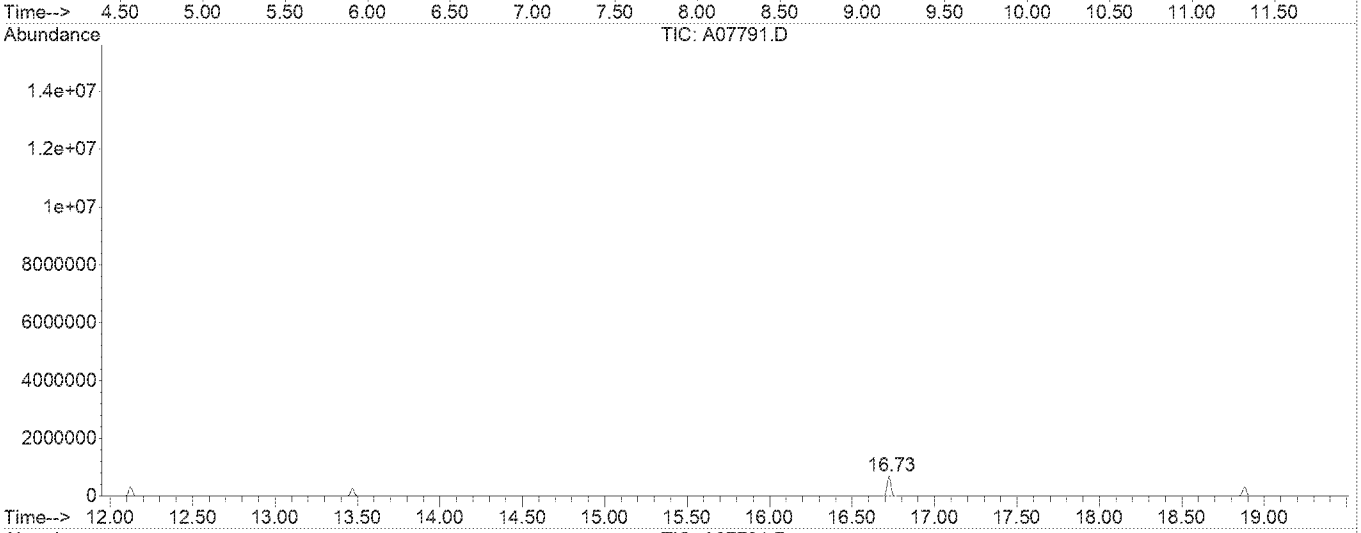
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.796	54	78	82	rBV	15575522	64655649	100.00%	93.589%
2	4.989	109	114	119	rBV	741942	751263	1.16%	1.087%
3	5.737	249	254	263	rBV	706296	809599	1.25%	1.172%
4	5.934	284	291	300	rBV	632009	764049	1.18%	1.106%
5	9.369	926	934	942	rBV	660095	951297	1.47%	1.377%
6	16.726	2302	2311	2321	rBV2	686873	1152532	1.78%	1.668%

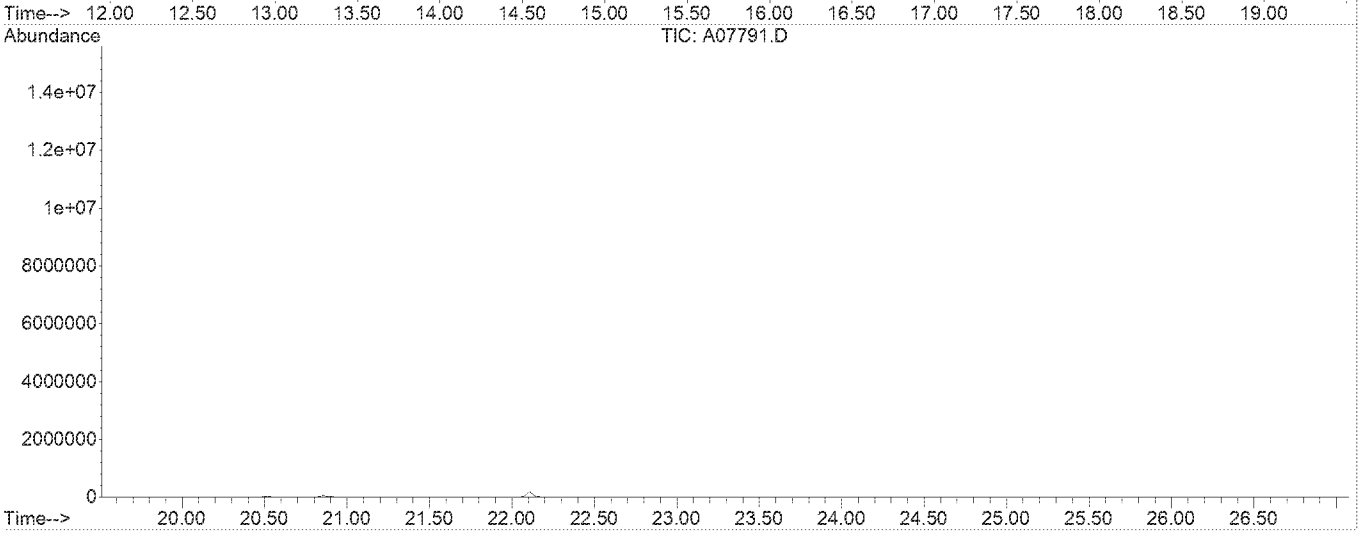
Sum of corrected areas: 69084389

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07791.D
Operator : MIZ
Acquired : 9 Jun 2011 2:24 am using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: 1105054-006
Misc Info : 1
Vial Number: 16
Quant File : I60609.RES (RTE Integrator)







Library Search Compound Report

Data File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07791.D Vial: 16
Acq On : 9 Jun 2011 2:24 am Operator: MIZ
Sample : 1105054-006 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

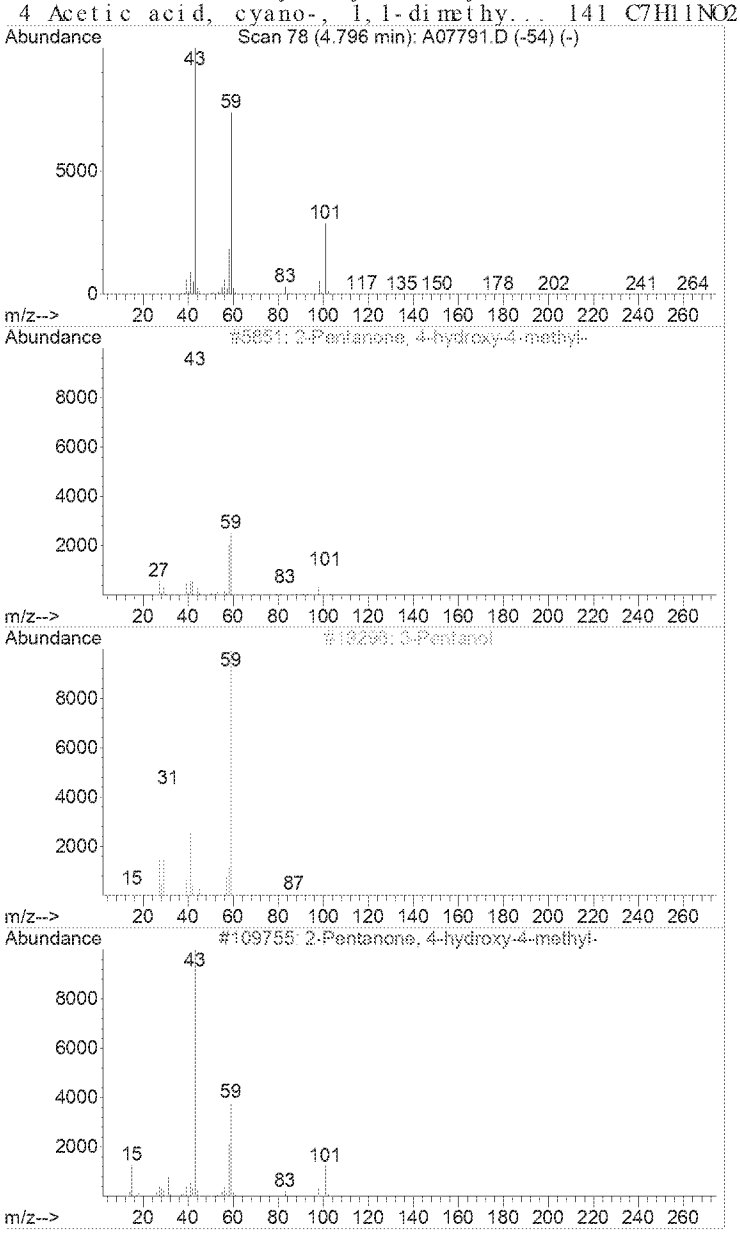
Quant Method : C:\MSDCHEM 1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Library : C:\DATABASE\NIST98.L

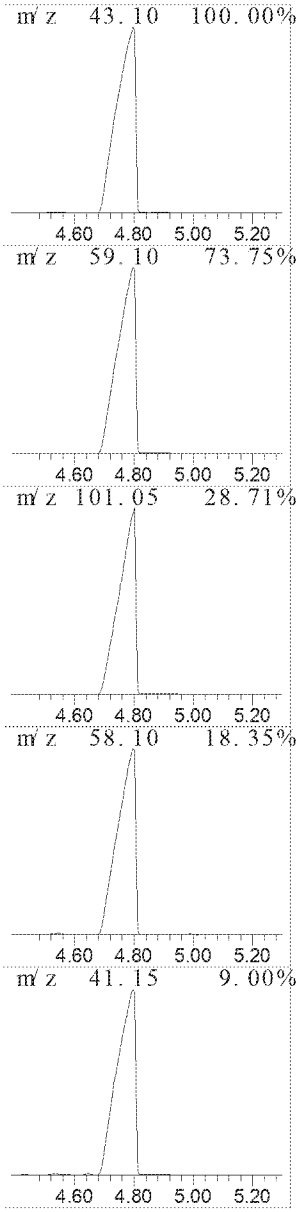
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	Est Conc	Area	Relative to ISTD	R.T.
4.80	1692.45 ng/µl	64655600	1,4-Dichlorobenzene-d4	6.13

Hit# of 5	Tentative ID	MW	Mol Form	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	3-Pentanol	88	C5H12O	000584-02-1	33
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	32
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	28





Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 9 Jun 2011 2:24 am
Data File: C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07791.D
Name: 1105054-006
Misc: 1
Method: C:\MSDCHEM 1\METHODS\I60609.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	Est Conc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
2-Pentanone, 4-hy...	4.80	1692.5	ng/µl	64655600	1	6.13	764049	20.0

Response Factor Report DEL6

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Initial Calibration

Calibration Files
020 =A07778.D 050 =A07777.D 080 =A07779.D
120 =A07780.D 160 =A07781.D

		Compound	020	050	080	120	160	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	ISTD						
2)	S	2-Fluorophenol	1.816	1.850	1.815	1.744	1.775	1.800	2.28
3)	T	Benzaldehyde	2.625	2.643	2.678	2.553	2.562	2.612	2.04
4)	S	Phenol-d5	2.428	2.442	2.460	2.374	2.449	2.431	1.38
5)	M	Phenol	2.469	2.535	2.551	2.448	2.514	2.504	1.74
6)	S	2-Chlorophenol-d4	1.637	1.602	1.628	1.583	1.591	1.608	1.45
7)	M	2-Chlorophenol	1.657	1.606	1.595	1.573	1.582	1.603	2.05
8)	T	bis(2-Chloroethyl	1.898	1.879	1.884	1.643	1.793	1.820	5.87
9)	T	1,3-Dichlorobenze	1.728	1.703	1.715	1.640	1.667	1.690	2.15
10)	M	1,4-Dichlorobenze	1.774	1.774	1.766	1.714	1.746	1.755	1.46
11)	S	1,2-Dichlorobenze	1.146	1.097	1.106	1.055	1.071	1.095	3.20
12)	T	1,2-Dichlorobenze	1.659	1.608	1.650	1.540	1.543	1.600	3.55
13)	T	2-Methylphenol	1.849	1.752	1.783	1.697	1.687	1.754	3.78
14)	T	2,2'-oxybis(1-Chl	3.087	3.051	3.211	2.937	2.929	3.043	3.83
15)	T	Hexachloroethane	0.738	0.719	0.748	0.704	0.708	0.724	2.63
16)	T	Acetophenone	2.625	2.643	2.678	2.553	2.562	2.612	2.04
17)	T	4-Methylphenol	1.875	1.861	1.892	1.797	1.792	1.843	2.48
18)	M	N-Nitroso-di-n-pr	1.686	1.670	1.695	1.630	1.623	1.661	1.97
19)	I	Naphthalene-d8	ISTD						
20)	S	Nitrobenzene-d5	0.626	0.640	0.635	0.598	0.650	0.630	3.09
21)	T	Nitrobenzene	0.602	0.615	0.622	0.583	0.643	0.613	3.63
22)	T	Isophorone	1.066	1.086	1.101	1.033	1.134	1.084	3.50
23)	T	2-Nitrophenol	0.221	0.232	0.231	0.217	0.237	0.228	3.65
24)	T	2,4-Dimethylpheno	0.479	0.461	0.466	0.418	0.445	0.454	5.12
25)	T	bis(2-Chloroethox	0.573	0.577	0.585	0.543	0.599	0.575	3.60
26)	T	2,4-Dichloropheno	0.334	0.349	0.357	0.327	0.360	0.345	4.14
27)	M	1,2,4-Trichlorobe	0.375	0.371	0.378	0.351	0.376	0.370	2.95
28)	T	Naphthalene	1.152	1.201	1.194	1.127	1.192	1.173	2.74
29)	T	4-Chloroaniline	0.544	0.548	0.539	0.485	0.521	0.528	4.96
30)	T	Hexachlorobutadie	0.206	0.212	0.215	0.198	0.218	0.210	3.79
31)	T	Caprolactam	0.152	0.164	0.169	0.151	0.176	0.163	6.55
32)	M	4-Chloro-3-methyl	0.428	0.452	0.455	0.413	0.464	0.443	4.77
33)	T	2-Methylnaphthale	0.756	0.766	0.793	0.731	0.790	0.767	3.35
34)	I	Acenaphthene-d10	ISTD						
35)	T	Hexachlorocyclope	0.435	0.470	0.445	0.449	0.469	0.454	3.43
36)	T	2,4,6-Trichloroph	0.443	0.456	0.438	0.434	0.451	0.444	2.02
37)	T	2,4,5-Trichloroph	0.485	0.492	0.474	0.460	0.472	0.477	2.58
38)	S	2-Fluorobiphenyl	1.670	1.683	1.622	1.614	1.625	1.643	1.92
39)		1,1'-Biphenyl	1.727	1.739	1.695	1.675	1.677	1.703	1.70
40)	T	2-Chloronaphthale	1.334	1.362	1.330	1.307	1.335	1.333	1.47
41)	T	2-Nitroaniline	0.608	0.655	0.633	0.607	0.627	0.626	3.20
42)	T	Acenaphthylene	2.079	2.162	2.105	2.088	2.115	2.110	1.53
43)	T	Dimethyl phthalat	1.539	1.568	1.547	1.519	1.564	1.548	1.28
44)	T	2,6-Dinitrotoluen	0.353	0.373	0.365	0.366	0.377	0.367	2.49
45)	T	3-Nitroaniline	0.426	0.441	0.423	0.399	0.412	0.420	3.77
46)	M	Acenaphthene	1.270	1.309	1.288	1.232	1.301	1.280	2.39
47)	T	2,4-Dinitrophenol	0.183	0.235	0.229	0.235	0.267	0.230	13.09
48)	T	Dibenzofuran	1.939	1.986	1.911	1.881	1.931	1.930	2.00
49)	M	4-Nitrophenol	0.275	0.313	0.283	0.280	0.309	0.292	6.10
50)	M	2,4-Dinitrotoluen	0.466	0.509	0.486	0.495	0.507	0.493	3.54
51)	T	Fluorene	1.581	1.627	1.576	1.530	1.581	1.579	2.18
52)	T	Diethyl phthalate	1.479	1.526	1.474	1.460	1.499	1.488	1.73
53)	T	4-Chlorophenyl-ph	0.762	0.765	0.736	0.723	0.739	0.745	2.43
54)	T	4-Nitroaniline	0.414	0.451	0.409	0.399	0.422	0.419	4.73
55)	S	2,4,6-Tribromphe	0.236	0.224	0.221	0.216	0.230	0.226	3.53
56)	I	Phenanthrene-d10	ISTD						

(#) = Out of Range

Response Factor Report DEL6

Method : C:\MSDCHEM.1\METHODS\I60609.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Initial Calibration

Calibration Files
020 =A07778.D 050 =A07777.D 080 =A07779.D
120 =A07780.D 160 =A07781.D

		Compound	020	050	080	120	160	Avg	%RSD
57)	T	4,6-Dinitro-2-met	0.151	0.172	0.173	0.171	0.190	0.171	7.94
58)	T	N-Nitrosodiphenyl	0.564	0.602	0.585	0.550	0.584	0.577	3.52
59)	T	4-Bromophenyl-phe	0.223	0.241	0.246	0.232	0.241	0.236	3.88
60)		Atrazine	0.247	0.256	0.260	0.247	0.264	0.255	2.99
61)	T	Hexachlorobenzene	0.253	0.253	0.244	0.242	0.247	0.248	2.06
62)	M	Pentachlorophenol	0.133	0.167	0.152	0.152	0.167	0.154	8.91
63)	T	Phenanthrene	1.249	1.284	1.265	1.216	1.268	1.256	2.06
64)	T	Anthracene	1.242	1.318	1.276	1.229	1.285	1.270	2.79
65)	T	Carbazole	1.207	1.247	1.200	1.171	1.218	1.209	2.29
66)	T	Di-n-butyl phthal	1.315	1.388	1.414	1.352	1.452	1.384	3.85
67)	T	Fluoranthene	1.294	1.404	1.400	1.409	1.571	1.416	7.00
68)	I	Chrysene-d12	ISTD						
69)	M	Pyrene	1.281	1.260	1.235	1.157	1.261	1.239	3.92
70)	S	Terphenyl-d14	0.950	0.904	0.884	0.830	0.908	0.895	4.86
71)	T	Butyl benzyl phth	0.567	0.609	0.609	0.602	0.679	0.613	6.63
72)	T	Benzo(a)Anthracen	1.272	1.279	1.291	1.256	1.314	1.283	1.71
73)	T	3,3'-Dichlorobenz	0.447	0.397	0.381	0.343	0.362	0.386	10.34
74)	T	Chrysene	1.215	1.222	1.233	1.177	1.218	1.213	1.76
75)	T	bis(2-Ethylhexyl)	0.890	0.930	0.897	0.904	1.028	0.930	6.13
76)	I	Perylene-d12	ISTD						
77)	T	Di-n-octyl phthal	1.725	1.953	2.013	2.091	2.214	1.999	9.10
78)	T	Benzo(b)fluoranth	1.334	1.341	1.364	1.189	1.310	1.307	5.28
79)	T	Benzo(k)fluoranth	1.214	1.280	1.329	1.241	1.286	1.270	3.47
80)	T	Benzo(a)pyrene	1.185	1.232	1.248	1.225	1.286	1.235	2.95
81)	T	Indeno(1,2,3-cd)p	1.272	1.287	1.281	1.286	1.235	1.272	1.69
82)	T	Dibenz(a,h)anthra	1.068	1.058	1.079	1.067	1.038	1.062	1.46
83)	T	Benzo(g,h,i)peryl	1.078	1.074	1.075	1.068	1.087	1.076	0.64

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07777.D Vial: 2
Acq On : 8 Jun 2011 5:51 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2	S	2-Fluorophenol	1.800	1.850	-2.8	100	0.00
3	T	Benzaldehyde	2.612	2.643	-1.2	100	0.00
4	S	Phenol-d5	2.431	2.442	-0.5	100	0.00
5	M	Phenol	2.504	2.535	-1.2	100	0.00
6	S	2-Chlorophenol-d4	1.608	1.602	0.4	100	0.00
7	M	2-Chlorophenol	1.603	1.606	-0.2	100	0.00
8	T	bis(2-Chloroethyl) ether	1.820	1.879	-3.2	100	0.00
9	T	1,3-Dichlorobenzene	1.690	1.703	-0.8	100	0.00
10	M	1,4-Dichlorobenzene	1.755	1.774	-1.1	100	0.00
11	S	1,2-Dichlorobenzene-d4	1.095	1.097	-0.2	100	0.00
12	T	1,2-Dichlorobenzene	1.600	1.608	-0.5	100	0.00
13	T	2-Methylphenol	1.754	1.752	0.1	100	0.00
14	T	2,2'-oxybis(1-Chloropropane	3.043	3.051	-0.3	100	0.00
15	T	Hexachloroethane	0.724	0.719	0.7	100	0.00
16	T	Acetophenone	2.612	2.643	-1.2	100	0.00
17	T	4-Methylphenol	1.843	1.861	-1.0	100	0.00
18	M	N-Nitroso-di-n-propylamine	1.661	1.670	-0.5	100	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
20	S	Nitrobenzene-d5	0.630	0.640	-1.6	100	0.00
21	T	Nitrobenzene	0.613	0.615	-0.3	100	0.00
22	T	Isophorone	1.084	1.086	-0.2	100	0.00
23	T	2-Nitrophenol	0.228	0.232	-1.8	100	0.00
24	T	2,4-Dimethylphenol	0.454	0.461	-1.5	100	0.00
25	T	bis(2-Chloroethoxy) methane	0.575	0.577	-0.3	100	0.00
26	T	2,4-Dichlorophenol	0.345	0.349	-1.2	100	0.00
27	M	1,2,4-Trichlorobenzene	0.370	0.371	-0.3	100	0.00
28	T	Naphthalene	1.173	1.201	-2.4	100	0.00
29	T	4-Chloroaniline	0.528	0.548	-3.8	100	0.00
30	T	Hexachlorobutadiene	0.210	0.212	-1.0	100	0.00
31	T	Caprolactam	0.163	0.164	-0.6	100	0.00
32	M	4-Chloro-3-methylphenol	0.443	0.452	-2.0	100	0.00
33	T	2-Methylnaphthalene	0.767	0.766	0.1	100	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
35	T	Hexachlorocyclopentadiene	0.454	0.470	-3.5	100	0.00
36	T	2,4,6-Trichlorophenol	0.444	0.456	-2.7	100	0.00
37	T	2,4,5-Trichlorophenol	0.477	0.492	-3.1	100	0.00
38	S	2-Fluorobiphenyl	1.643	1.683	-2.4	100	0.00
39		1,1'-Biphenyl	1.703	1.739	-2.1	100	0.00
40	T	2-Chloronaphthalene	1.333	1.362	-2.2	100	0.00
41	T	2-Nitroaniline	0.626	0.655	-4.6	100	0.00
42	T	Acenaphthylene	2.110	2.162	-2.5	100	0.00
43	T	Dimethyl phthalate	1.548	1.568	-1.3	100	0.00
44	T	2,6-Dinitrotoluene	0.367	0.373	-1.6	100	0.00
45	T	3-Nitroaniline	0.420	0.441	-5.0	100	0.00
46	M	Acenaphthene	1.280	1.309	-2.3	100	0.00
47	T	2,4-Dinitrophenol	0.230	0.235	-2.2	100	0.00
48	T	Dibenzofuran	1.930	1.986	-2.9	100	0.00
49	M	4-Nitrophenol	0.292	0.313	-7.2	100	0.00
50	M	2,4-Dinitrotoluene	0.493	0.509	-3.2	100	0.00
51	T	Fluorene	1.579	1.627	-3.0	100	0.00
52	T	Diethyl phthalate	1.488	1.526	-2.6	100	0.00
53	T	4-Chlorophenyl-phenyl ether	0.745	0.765	-2.7	100	0.00
54	T	4-Nitroaniline	0.419	0.451	-7.6	100	0.00
55	S	2,4,6-Tribromophenol	0.226	0.224	0.9	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07777.D Vial: 2
Acq On : 8 Jun 2011 5:51 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
57	T	4,6-Dinitro-2-methylphenol	0.171	0.172	-0.6	100	0.00
58	T	N-Nitrosodiphenylamine	0.577	0.602	-4.3	100	0.00
59	T	4-Bromophenyl-phenyl ether	0.236	0.241	-2.1	100	0.00
60		Atrazine	0.255	0.256	-0.4	100	0.00
61	T	Hexachlorobenzene	0.248	0.253	-2.0	100	0.00
62	M	Pentachlorophenol	0.154	0.167	-8.4	100	0.00
63	T	Phenanthrene	1.256	1.284	-2.2	100	0.00
64	T	Anthracene	1.270	1.318	-3.8	100	0.00
65	T	Carbazole	1.209	1.247	-3.1	100	0.00
66	T	Di-n-butyl phthalate	1.384	1.388	-0.3	100	0.00
67	T	Fluoranthene	1.416	1.404	0.8	100	0.00
68	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
69	M	Pyrene	1.239	1.260	-1.7	100	0.00
70	S	Terphenyl-d14	0.895	0.904	-1.0	100	0.00
71	T	Butyl benzyl phthalate	0.613	0.609	0.7	100	0.00
72	T	Benzo(a)Anthracene	1.283	1.279	0.3	100	0.00
73	T	3,3'-Dichlorobenzidine	0.386	0.397	-2.8	100	0.00
74	T	Chrysene	1.213	1.222	-0.7	100	0.00
75	T	bis(2-Ethylhexyl) phthalate	0.930	0.930	0.0	100	0.00
76	I	Perylene-d12	1.000	1.000	0.0	100	0.00
77	T	Di-n-octyl phthalate	1.999	1.953	2.3	100	0.00
78	T	Benzo(b)fluoranthene	1.307	1.341	-2.6	100	0.00
79	T	Benzo(k)fluoranthene	1.270	1.280	-0.8	100	0.00
80	T	Benzo(a)pyrene	1.235	1.232	0.2	100	0.00
81	T	Indeno(1,2,3-cd)pyrene	1.272	1.287	-1.2	100	0.00
82	T	Dibenz(a,h)anthracene	1.062	1.058	0.4	100	0.00
83	T	Benzo(g,h,i)perylene	1.076	1.074	0.2	100	0.00

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07778.D Vial: 3
Acq On : 8 Jun 2011 6:28 pm Operator: MIZ
Sample : BNA MIX 1&2 020 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 11:22:00 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:21:24 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.12	152	33365	20.00 ng/µl	0.00
19) Naphthalene-d8	7.68	136	133316	20.00 ng/µl	0.00
34) Acenaphthene-d10	10.60	164	76317	20.00 ng/µl	0.00
56) Phenanthrene-d10	13.46	188	136662	20.00 ng/µl	0.00
68) Chrysene-d12	18.87	240	150312	20.00 ng/µl	-0.01
76) Perylene-d12	22.09	264	140446	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.96	112	30297	10.09 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 13.45%#		
4) Phenol-d5	5.72	99	40499	9.99 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 13.32%		
6) 2-Chlorophenol-d4	5.92	132	27305	10.18 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 13.57%#		
11) 1,2-Dichlorobenzene-d4	6.34	152	19112	10.46 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 20.92%		
20) Nitrobenzene-d5	6.76	82	41744	9.94 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 19.88%#		
38) 2-Fluorobiphenyl	9.36	172	63721	10.17 ng/µl	-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 20.34%#		
55) 2,4,6-Tribromophenol	12.12	330	9022	10.48 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 13.97%		
70) Terphenyl-d14	16.71	244	71373	10.61 ng/µl	-0.01
Spiked Amount 50.000	Range 33 - 141		Recovery = 21.22%#		

Target Compounds					Qvalue
3) Benzaldehyde	6.56	105	43797	10.05 ng/µl	95
5) Phenol	5.74	94	41196	9.86 ng/µl	93
7) 2-Chlorophenol	5.94	128	27644	10.34 ng/µl	88
8) bis(2-Chloroethyl) ether	5.85	93	31671	10.43 ng/µl	95
9) 1,3-Dichlorobenzene	6.09	146	28828	10.22 ng/µl	91
10) 1,4-Dichlorobenzene	6.14	146	29603	10.11 ng/µl	95
12) 1,2-Dichlorobenzene	6.35	146	27671	10.37 ng/µl	94
13) 2-Methylphenol	6.34	108	30847	10.54 ng/µl	96
14) 2,2'-oxybis(1-Chloropropan	6.40	45	51505	10.15 ng/µl	98
15) Hexachloroethane	6.70	117	12319	10.20 ng/µl	94
16) Acetophenone	6.56	105	43797	10.05 ng/µl	95
17) 4-Methylphenol	6.48	108	31273	10.17 ng/µl	98
18) N-Nitroso-di-n-propylamine	6.55	70	28121	10.15 ng/µl	86
21) Nitrobenzene	6.78	77	40127	9.82 ng/µl	88
22) Isophorone	7.04	82	71086	9.84 ng/µl	89
23) 2-Nitrophenol	7.17	139	14756	9.72 ng/µl	91
24) 2,4-Dimethylphenol	7.14	107	31912	10.55 ng/µl	96
25) bis(2-Chloroethoxy) methan	7.28	93	38199	9.96 ng/µl	97
26) 2,4-Dichlorophenol	7.46	162	22235	9.66 ng/µl	89
27) 1,2,4-Trichlorobenzene	7.61	180	24993	10.12 ng/µl	97
28) Naphthalene	7.71	128	76786	9.82 ng/µl	95
29) 4-Chloroaniline	7.76	127	36284	10.32 ng/µl	95
30) Hexachlorobutadiene	7.93	225	13756	9.83 ng/µl	99
31) Caprolactam	8.19	113	10165	9.38 ng/µl #	76
32) 4-Chloro-3-methylphenol	8.42	107	28547	9.67 ng/µl	91
33) 2-Methylnaphthalene	8.74	142	50402	9.86 ng/µl	94
35) Hexachlorocyclopentadiene	9.11	237	16588	9.59 ng/µl	92
36) 2,4,6-Trichlorophenol	9.23	196	16902	9.97 ng/µl	84
37) 2,4,5-Trichlorophenol	9.29	196	18498	10.91 ng/µl	99
39) 1,1'-Biphenyl	9.52	154	65888	10.14 ng/µl	100
40) 2-Chloronaphthalene	9.57	162	50891	10.00 ng/µl	98
41) 2-Nitroaniline	9.76	65	23184	9.71 ng/µl	91

(#) = qualifier out of range (m) = manual integration
A07778.D I60609.M Thu Jun 09 11:23:34 2011

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07778.D Vial: 3
Acq On : 8 Jun 2011 6:28 pm Operator: MIZ
Sample : BNA MIX 1&2 020 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 11:22:00 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:21:24 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

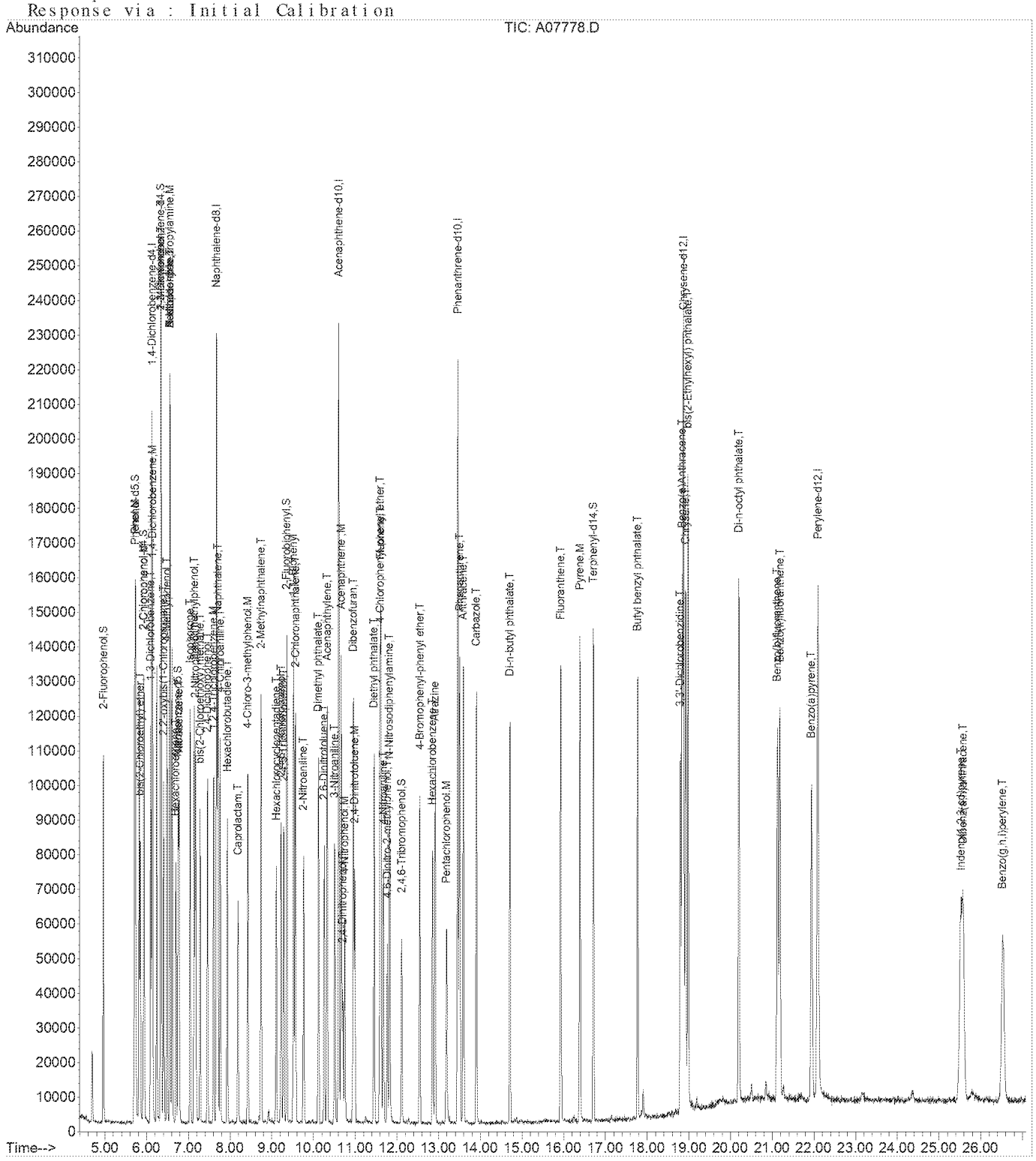
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	10.33	152	79346	9.86 ng/µl	98
43) Dimethyl phthalate	10.12	163	58734	9.95 ng/µl	85
44) 2,6-Dinitrotoluene	10.26	165	13471	9.63 ng/µl	90
45) 3-Nitroaniline	10.51	138	16268	10.15 ng/µl	82
46) Acenaphthene	10.66	153	48465	9.92 ng/µl	98
47) 2,4-Dinitrophenol	10.71	184	6977	7.96 ng/µl	95
48) Dibenzofuran	10.96	168	73985	10.05 ng/µl	98
49) 4-Nitrophenol	10.75	109	10475	9.41 ng/µl	67
50) 2,4-Dinitrotoluene	10.99	165	17800	9.47 ng/µl	81
51) Fluorene	11.61	166	60330	10.01 ng/µl	93
52) Diethyl phthalate	11.45	149	56431	9.94 ng/µl	98
53) 4-Chlorophenyl-phenyl ethe	11.59	204	29063	10.22 ng/µl	94
54) 4-Nitroaniline	11.67	138	15783	9.87 ng/µl	92
57) 4,6-Dinitro-2-methylphenol	11.77	198	10339	8.83 ng/µl	95
58) N-Nitrosodiphenylamine	11.82	169	38535	9.77 ng/µl	91
59) 4-Bromophenyl-phenyl ether	12.55	248	15221	9.42 ng/µl #	77
60) Atrazine	12.92	200	16872	9.69 ng/µl	99
61) Hexachlorobenzene	12.85	284	17295	10.21 ng/µl	89
62) Pentachlorophenol	13.19	266	9115	8.64 ng/µl #	70
63) Phenanthrene	13.50	178	85319	9.94 ng/µl	97
64) Anthracene	13.60	178	84885	9.78 ng/µl	94
65) Carbazole	13.90	167	82487	9.99 ng/µl	94
66) Di-n-butyl phthalate	14.71	149	89824	9.50 ng/µl	99
67) Fluoranthene	15.93	202	88454	9.14 ng/µl	98
69) Pyrene	16.39	202	96238	10.34 ng/µl	89
71) Butyl benzyl phthalate	17.77	149	42633	9.25 ng/µl	92
72) Benzo(a)Anthracene	18.84	228	95633	9.92 ng/µl	95
73) 3,3'-Dichlorobenzidine	18.80	252	33632	11.59 ng/µl	97
74) Chrysene	18.92	228	91311	10.02 ng/µl	96
75) bis(2-Ethylhexyl) phthalat	18.98	149	66896	9.57 ng/µl	97
77) Di-n-octyl phthalate	20.20	149	121101	8.63 ng/µl	96
78) Benzo(b)fluoranthene	21.12	252	93647	10.20 ng/µl	95
79) Benzo(k)fluoranthene	21.18	252	85270	9.56 ng/µl	95
80) Benzo(a)pyrene	21.94	252	83247	9.60 ng/µl	90
81) Indeno(1,2,3-cd)pyrene	25.52	276	89307	10.00 ng/µl	93
82) Dibenz(a,h)anthracene	25.57	278	75008	10.06 ng/µl	86
83) Benzo(g,h,i)perylene	26.53	276	75687	10.01 ng/µl	91

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

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM.1\DATA\MS60608L.MIZ\A07778.D Vial: 3
Acq On : 8 Jun 2011 6:28 pm Operator: MIZ
Sample : BNA MIX 1&2 020 Inst : DEL6
Msc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 11:22 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM.1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07777.D Vial: 2
Acq On : 8 Jun 2011 5:51 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 11:22:00 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:21:24 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.13	152	36787	20.00 ng/µl	0.00
19) Naphthalene-d8	7.68	136	143644	20.00 ng/µl	0.00
34) Acenaphthene-d10	10.61	164	82683	20.00 ng/µl	0.00
56) Phenanthrene-d10	13.47	188	147378	20.00 ng/µl	0.00
68) Chrysene-d12	18.88	240	179408	20.00 ng/µl	0.00
76) Perylene-d12	22.10	264	160112	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.96	112	85084	25.70 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 34.27%		
4) Phenol-d5	5.73	99	112294	25.12 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 33.49%		
6) 2-Chlorophenol-d4	5.93	132	73679	24.91 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 33.21%		
11) 1,2-Dichlorobenzene-d4	6.34	152	50445	25.05 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 50.10%		
20) Nitrobenzene-d5	6.76	82	114832	25.39 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 50.78%		
38) 2-Fluorobiphenyl	9.37	172	173971	25.62 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 51.24%		
55) 2,4,6-Tribromophenol	12.12	330	23173	24.85 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 33.13%		
70) Terphenyl-d14	16.72	244	202694	25.24 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 50.48%		
Target Compounds					Qvalue
3) Benzaldehyde	6.56	105	121515	25.29 ng/µl	98
5) Phenol	5.74	94	116577	25.32 ng/µl	93
7) 2-Chlorophenol	5.95	128	73832	25.05 ng/µl	91
8) bis(2-Chloroethyl) ether	5.85	93	86412	25.82 ng/µl	96
9) 1,3-Dichlorobenzene	6.09	146	78309	25.19 ng/µl	96
10) 1,4-Dichlorobenzene	6.15	146	81568	25.27 ng/µl	92
12) 1,2-Dichlorobenzene	6.35	146	73926	25.12 ng/µl	92
13) 2-Methylphenol	6.35	108	80557	24.98 ng/µl	87
14) 2,2'-oxybis(1-Chloropropan	6.41	45	140306	25.07 ng/µl	96
15) Hexachloroethane	6.70	117	33072	24.84 ng/µl	87
16) Acetophenone	6.56	105	121515	25.29 ng/µl	96
17) 4-Methylphenol	6.49	108	85587	25.24 ng/µl	99
18) N-Nitroso-di-n-propylamine	6.56	70	76789	25.14 ng/µl	86
21) Nitrobenzene	6.78	77	110458	25.09 ng/µl	90
22) Isophorone	7.05	82	194969	25.04 ng/µl	86
23) 2-Nitrophenol	7.17	139	41720	25.51 ng/µl	86
24) 2,4-Dimethylphenol	7.14	107	82849	25.41 ng/µl	99
25) bis(2-Chloroethoxy) methan	7.29	93	103660	25.08 ng/µl	96
26) 2,4-Dichlorophenol	7.46	162	62733	25.30 ng/µl	90
27) 1,2,4-Trichlorobenzene	7.61	180	66692	25.07 ng/µl	99
28) Naphthalene	7.71	128	215670	25.59 ng/µl	96
29) 4-Chloroaniline	7.77	127	98477	25.99 ng/µl	97
30) Hexachlorobutadiene	7.94	225	38145	25.31 ng/µl	86
31) Caprolactam	8.22	113	29498	25.27 ng/µl #	74
32) 4-Chloro-3-methylphenol	8.43	107	81222	25.55 ng/µl	85
33) 2-Methylnaphthalene	8.75	142	137463	24.96 ng/µl	96
35) Hexachlorocyclopentadiene	9.11	237	48595	25.92 ng/µl	91
36) 2,4,6-Trichlorophenol	9.23	196	47148	25.66 ng/µl	96
37) 2,4,5-Trichlorophenol	9.29	196	50890	27.70 ng/µl	96
39) 1,1'-Biphenyl	9.52	154	179719	25.53 ng/µl	100
40) 2-Chloronaphthalene	9.57	162	140723	25.53 ng/µl	99
41) 2-Nitroaniline	9.77	65	67692	26.16 ng/µl	90

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

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07777.D Vial: 2
Acq On : 8 Jun 2011 5:51 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 11:22:00 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:21:24 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

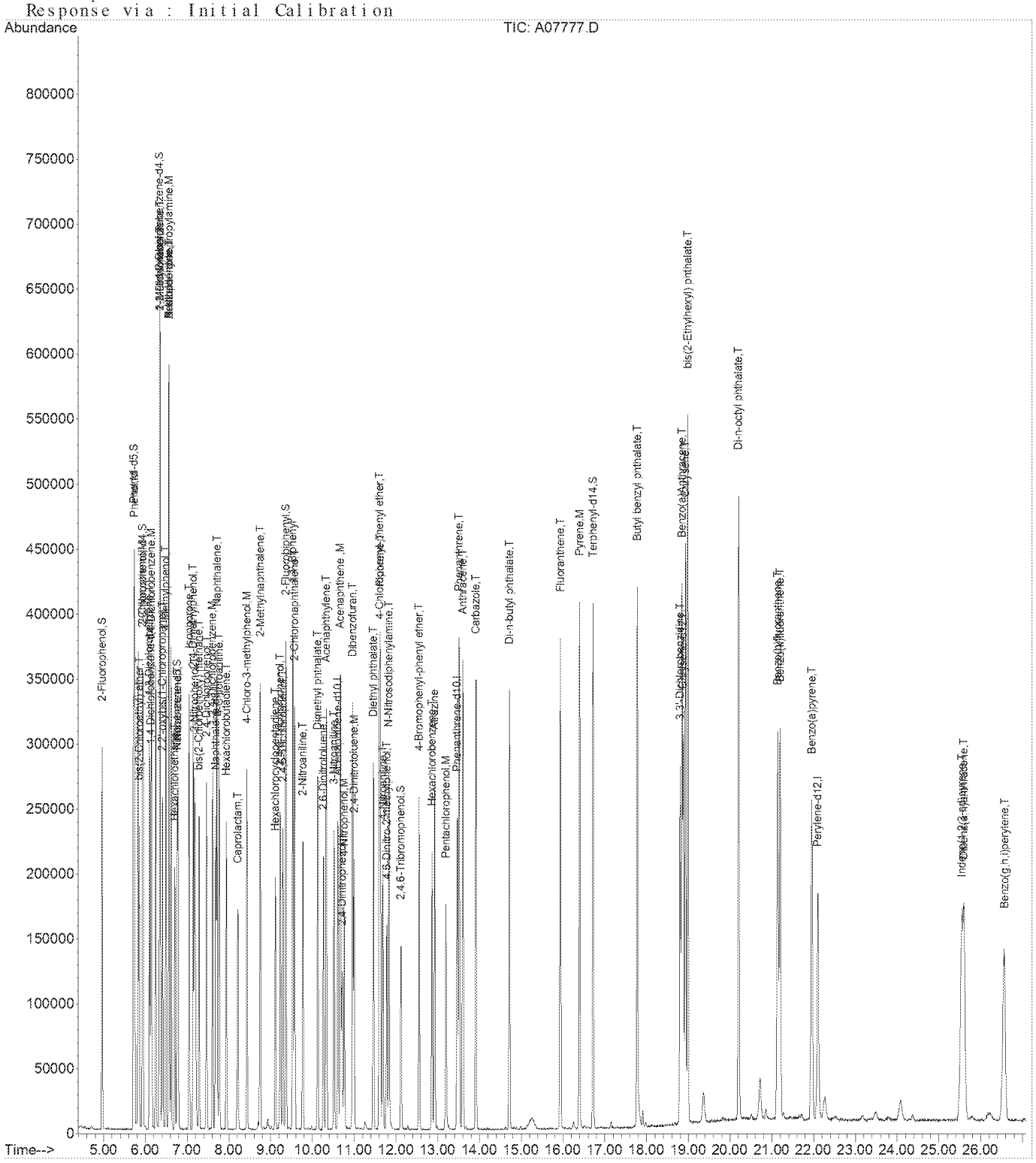
	Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42)	Acenaphthylene	10.33	152	223433	25.62 ng/µl	99
43)	Dimethyl phthalate	10.13	163	162101	25.34 ng/µl	88
44)	2,6-Dinitrotoluene	10.27	165	38530	25.41 ng/µl	89
45)	3-Nitroaniline	10.52	138	45578	26.24 ng/µl	89
46)	Acenaphthene	10.67	153	135295	25.57 ng/µl	97
47)	2,4-Dinitrophenol	10.71	184	24282	25.57 ng/µl	96
48)	Dibenzofuran	10.96	168	205284	25.73 ng/µl	99
49)	4-Nitrophenol	10.76	109	32364	26.83 ng/µl	72
50)	2,4-Dinitrotoluene	11.00	165	52613	25.84 ng/µl	84
51)	Fluorene	11.62	166	168188	25.76 ng/µl	89
52)	Diethyl phthalate	11.46	149	157747	25.65 ng/µl	98
53)	4-Chlorophenyl-phenyl ethe	11.60	204	79088	25.68 ng/µl	93
54)	4-Nitroaniline	11.69	138	46609	26.91 ng/µl	80
57)	4,6-Dinitro-2-methylphenol	11.78	198	31687	25.09 ng/µl	93
58)	N-Nitrosodiphenylamine	11.83	169	110959	26.08 ng/µl	95
59)	4-Bromophenyl-phenyl ether	12.55	248	44315	25.44 ng/µl	90
60)	Atrazine	12.93	200	47233	25.15 ng/µl	99
61)	Hexachlorobenzene	12.86	284	46651	25.53 ng/µl	77
62)	Pentachlorophenol	13.19	266	30714	27.01 ng/µl	91
63)	Phenanthrene	13.51	178	236601	25.56 ng/µl	95
64)	Anthracene	13.60	178	242782	25.94 ng/µl	99
65)	Carbazole	13.92	167	229776	25.80 ng/µl	98
66)	Di-n-butyl phthalate	14.72	149	255716	25.07 ng/µl	98
67)	Fluoranthene	15.94	202	258652	24.79 ng/µl	93
69)	Pyrene	16.39	202	282473	25.42 ng/µl	91
71)	Butyl benzyl phthalate	17.78	149	136646	24.84 ng/µl	85
72)	Benzo(a)Anthracene	18.84	228	286902	24.94 ng/µl	98
73)	3,3'-Dichlorobenzidine	18.81	252	89097	25.73 ng/µl	91
74)	Chrysene	18.93	228	274109	25.19 ng/µl	98
75)	bis(2-Ethylhexyl) phthalat	18.99	149	208569	25.00 ng/µl	96
77)	Di-n-octyl phthalate	20.20	149	390818	24.42 ng/µl	97
78)	Benzo(b)fluoranthene	21.14	252	268374	25.64 ng/µl	95
79)	Benzo(k)fluoranthene	21.20	252	256271	25.20 ng/µl	99
80)	Benzo(a)pyrene	21.96	252	246489	24.93 ng/µl	89
81)	Indeno(1,2,3-cd)pyrene	25.55	276	257542	25.29 ng/µl	91
82)	Dibenz(a,h)anthracene	25.60	278	211674	24.90 ng/µl	88
83)	Benzo(g,h,i)perylene	26.57	276	214884	24.94 ng/µl	98

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

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07777.D Vial: 2
Acq On : 8 Jun 2011 5:51 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Msc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 11:22 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07779.D Vial: 4
Acq On : 8 Jun 2011 7:05 pm Operator: MIZ
Sample : BNA MIX 1&2 080 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 11:22:01 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:21:24 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.14	152	35585	20.00 ng/µl	0.01
19) Naphthalene-d8	7.69	136	139646	20.00 ng/µl	0.00
34) Acenaphthene-d10	10.62	164	83465	20.00 ng/µl	0.01
56) Phenanthrene-d10	13.47	188	141640	20.00 ng/µl	0.00
68) Chrysene-d12	18.89	240	177012	20.00 ng/µl	0.01
76) Perylene-d12	22.11	264	148376	20.00 ng/µl	0.01
System Monitoring Compounds					
2) 2-Fluorophenol	4.97	112	129160	40.33 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 53.77%		
4) Phenol-d5	5.73	99	175103	40.49 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 53.99%		
6) 2-Chlorophenol-d4	5.93	132	115875	40.49 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 53.99%		
11) 1,2-Dichlorobenzene-d4	6.34	152	78720	40.41 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 80.82%		
20) Nitrobenzene-d5	6.77	82	177226	40.31 ng/µl	0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 80.62%		
38) 2-Fluorobiphenyl	9.37	172	270714	39.49 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 78.98%		
55) 2,4,6-Tribromophenol	12.13	330	36971	39.27 ng/µl	0.01
Spiked Amount 75.000	Range 10 - 123		Recovery = 52.36%		
70) Terphenyl-d14	16.72	244	313033	39.51 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 79.02%		
Target Compounds					Qvalue
3) Benzaldehyde	6.57	105	190577	41.00 ng/µl	96
5) Phenol	5.75	94	181552	40.76 ng/µl	93
7) 2-Chlorophenol	5.95	128	113537	39.82 ng/µl	87
8) bis(2-Chloroethyl) ether	5.85	93	134075	41.41 ng/µl	95
9) 1,3-Dichlorobenzene	6.10	146	122022	40.57 ng/µl	92
10) 1,4-Dichlorobenzene	6.15	146	125694	40.26 ng/µl	92
12) 1,2-Dichlorobenzene	6.36	146	117437	41.26 ng/µl	98
13) 2-Methylphenol	6.35	108	126865	40.66 ng/µl	91
14) 2,2'-oxybis(1-Chloropropan	6.42	45	228510	42.20 ng/µl	95
15) Hexachloroethane	6.71	117	53247	41.35 ng/µl	91
16) Acetophenone	6.57	105	190577	41.00 ng/µl	95
17) 4-Methylphenol	6.50	108	134646	41.05 ng/µl	99
18) N-Nitroso-di-n-propylamine	6.57	70	120663	40.83 ng/µl	87
21) Nitrobenzene	6.79	77	173660	40.58 ng/µl	88
22) Isophorone	7.05	82	307486	40.62 ng/µl	86
23) 2-Nitrophenol	7.18	139	64649	40.66 ng/µl	87
24) 2,4-Dimethylphenol	7.15	107	130229	41.08 ng/µl	98
25) bis(2-Chloroethoxy) methan	7.29	93	163423	40.68 ng/µl	94
26) 2,4-Dichlorophenol	7.47	162	99590	41.31 ng/µl	92
27) 1,2,4-Trichlorobenzene	7.62	180	105543	40.82 ng/µl	91
28) Naphthalene	7.72	128	333574	40.72 ng/µl	96
29) 4-Chloroaniline	7.77	127	150607	40.89 ng/µl	92
30) Hexachlorobutadiene	7.94	225	59961	40.92 ng/µl	88
31) Caprolactam	8.23	113	47233	41.62 ng/µl #	77
32) 4-Chloro-3-methylphenol	8.44	107	127192	41.15 ng/µl	93
33) 2-Methylnaphthalene	8.76	142	221468	41.36 ng/µl	95
35) Hexachlorocyclopentadiene	9.12	237	74228	39.22 ng/µl	91
36) 2,4,6-Trichlorophenol	9.24	196	73118	39.42 ng/µl	90
37) 2,4,5-Trichlorophenol	9.30	196	79057	42.63 ng/µl	97
39) 1,1'-Biphenyl	9.54	154	283021	39.83 ng/µl	100
40) 2-Chloronaphthalene	9.58	162	221971	39.89 ng/µl	98
41) 2-Nitroaniline	9.78	65	105691	40.46 ng/µl	91

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

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07779.D Vial: 4
Acq On : 8 Jun 2011 7:05 pm Operator: MIZ
Sample : BNA MIX 1&2 080 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 11:22:01 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:21:24 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

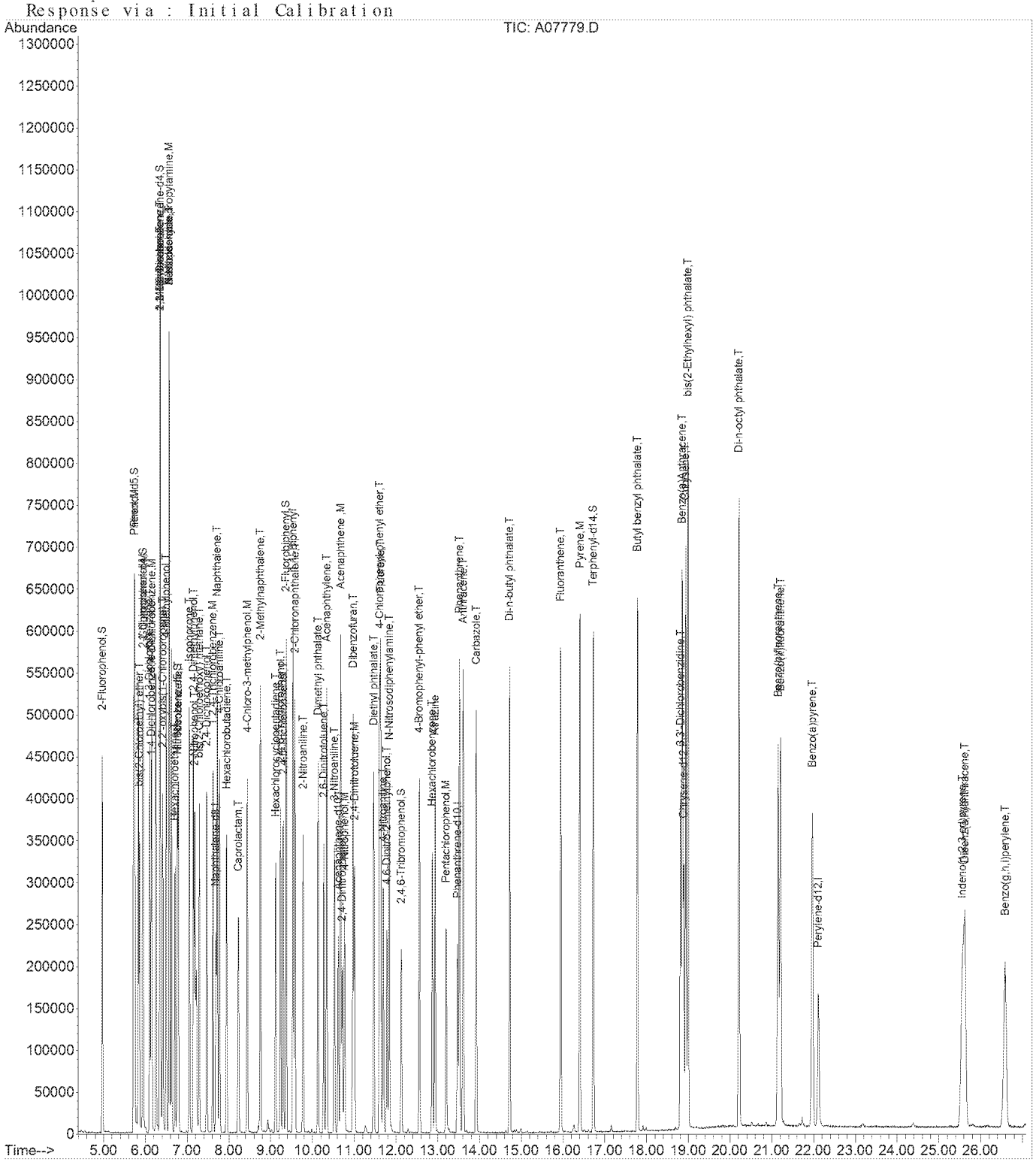
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	10.34	152	351402	39.91 ng/µl	98
43) Dimethyl phthalate	10.13	163	258323	40.00 ng/µl	85
44) 2,6-Dinitrotoluene	10.27	165	60894	39.78 ng/µl	82
45) 3-Nitroaniline	10.53	138	70546	40.23 ng/µl	83
46) Acenaphthene	10.68	153	214970	40.25 ng/µl	98
47) 2,4-Dinitrophenol	10.72	184	38268	39.92 ng/µl	97
48) Dibenzofuran	10.97	168	318994	39.61 ng/µl	99
49) 4-Nitrophenol	10.77	109	47259	38.81 ng/µl	78
50) 2,4-Dinitrotoluene	11.00	165	81076	39.44 ng/µl	90
51) Fluorene	11.63	166	263053	39.92 ng/µl	95
52) Diethyl phthalate	11.47	149	246040	39.63 ng/µl	96
53) 4-Chlorophenyl-phenyl ethe	11.61	204	122830	39.51 ng/µl	91
54) 4-Nitroaniline	11.69	138	68341	39.09 ng/µl	79
57) 4,6-Dinitro-2-methylphenol	11.78	198	49083	40.44 ng/µl	95
58) N-Nitrosodiphenylamine	11.84	169	165860	40.57 ng/µl	93
59) 4-Bromophenyl-phenyl ether	12.56	248	69763	41.67 ng/µl	87
60) Atrazine	12.94	200	73650	40.80 ng/µl	97
61) Hexachlorobenzene	12.87	284	69191	39.40 ng/µl	95
62) Pentachlorophenol	13.21	266	43084	39.43 ng/µl	87
63) Phenanthrene	13.52	178	358259	40.27 ng/µl	97
64) Anthracene	13.61	178	361331	40.18 ng/µl	95
65) Carbazole	13.92	167	339984	39.72 ng/µl	97
66) Di-n-butyl phthalate	14.72	149	400618	40.87 ng/µl	98
67) Fluoranthene	15.94	202	396718	39.57 ng/µl	94
69) Pyrene	16.41	202	437252	39.89 ng/µl	91
71) Butyl benzyl phthalate	17.78	149	215450	39.69 ng/µl	89
72) Benzo(a)Anthracene	18.85	228	457023	40.26 ng/µl	98
73) 3,3'-Dichlorobenzidine	18.81	252	134872	39.47 ng/µl	99
74) Chrysene	18.94	228	436467	40.66 ng/µl	97
75) bis(2-Ethylhexyl) phthalat	18.99	149	317593	38.59 ng/µl	98
77) Di-n-octyl phthalate	20.21	149	597238	40.27 ng/µl	96
78) Benzo(b)fluoranthene	21.15	252	404627	41.72 ng/µl	95
79) Benzo(k)fluoranthene	21.21	252	394274	41.84 ng/µl	98
80) Benzo(a)pyrene	21.97	252	370358	40.41 ng/µl	87
81) Indeno(1,2,3-cd)pyrene	25.57	276	380095	40.27 ng/µl	95
82) Dibenz(a,h)anthracene	25.62	278	320200	40.64 ng/µl	90
83) Benzo(g,h,i)perylene	26.58	276	318914	39.94 ng/µl	98

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

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07779.D Vial: 4
Acq On : 8 Jun 2011 7:05 pm Operator: MIZ
Sample : BNA MIX 1&2 080 Inst : DEL6
Msc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 11:22 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07780.D Vial: 5
Acq On : 8 Jun 2011 7:41 pm Operator: MIZ
Sample : BNA MIX 1&2 120 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 11:22:01 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:21:24 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.13	152	32341	20.00 ng/µl	0.00
19) Naphthalene-d8	7.68	136	131613	20.00 ng/µl	0.00
34) Acenaphthene-d10	10.61	164	74167	20.00 ng/µl	0.00
56) Phenanthrene-d10	13.47	188	130404	20.00 ng/µl	0.00
68) Chrysene-d12	18.88	240	175935	20.00 ng/µl	0.00
76) Perylene-d12	22.10	264	138089	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.96	112	169234	58.14 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 77.52%		
4) Phenol-d5	5.73	99	230371	58.61 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 78.15%		
6) 2-Chlorophenol-d4	5.93	132	153590	59.06 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 78.75%		
11) 1,2-Dichlorobenzene-d4	6.34	152	102345	57.81 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 115.62%#		
20) Nitrobenzene-d5	6.76	82	236287	57.02 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 114.04%#		
38) 2-Fluorobiphenyl	9.37	172	359034	58.94 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 117.88%#		
55) 2,4,6-Tribromophenol	12.12	330	47999	57.38 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 76.51%		
70) Terphenyl-d14	16.73	244	438114	55.64 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 111.28%		

Target Compounds					Qvalue
3) Benzaldehyde	6.56	105	247735	58.65 ng/µl	98
5) Phenol	5.74	94	237542	58.68 ng/µl	93
7) 2-Chlorophenol	5.95	128	152650	58.91 ng/µl	84
8) bis(2-Chloroethyl) ether	5.85	93	159439	54.19 ng/µl	94
9) 1,3-Dichlorobenzene	6.10	146	159086	58.20 ng/µl	96
10) 1,4-Dichlorobenzene	6.15	146	166289	58.60 ng/µl	92
12) 1,2-Dichlorobenzene	6.35	146	149418	57.76 ng/µl	98
13) 2-Methylphenol	6.35	108	164648	58.07 ng/µl	86
14) 2,2'-oxybis(1-Chloropropan	6.41	45	284939	57.90 ng/µl	94
15) Hexachloroethane	6.70	117	68345	58.40 ng/µl	89
16) Acetophenone	6.56	105	247735	58.65 ng/µl	96
17) 4-Methylphenol	6.50	108	174387	58.50 ng/µl	100
18) N-Nitroso-di-n-propylamine	6.56	70	158145	58.89 ng/µl	87
21) Nitrobenzene	6.78	77	230201	57.07 ng/µl	88
22) Isophorone	7.05	82	407812	57.16 ng/µl	86
23) 2-Nitrophenol	7.18	139	85573	57.11 ng/µl	92
24) 2,4-Dimethylphenol	7.15	107	165208	55.30 ng/µl	98
25) bis(2-Chloroethoxy) methan	7.29	93	214290	56.59 ng/µl	96
26) 2,4-Dichlorophenol	7.47	162	129176	56.85 ng/µl	93
27) 1,2,4-Trichlorobenzene	7.61	180	138673	56.90 ng/µl	92
28) Naphthalene	7.71	128	445096	57.64 ng/µl	96
29) 4-Chloroaniline	7.77	127	191345	55.12 ng/µl	90
30) Hexachlorobutadiene	7.94	225	78121	56.56 ng/µl	95
31) Caprolactam	8.24	113	59619	55.75 ng/µl #	78
32) 4-Chloro-3-methylphenol	8.43	107	163206	56.02 ng/µl	92
33) 2-Methylnaphthalene	8.75	142	288431	57.15 ng/µl	95
35) Hexachlorocyclopentadiene	9.11	237	99934	59.42 ng/µl	90
36) 2,4,6-Trichlorophenol	9.24	196	96631	58.63 ng/µl	92
37) 2,4,5-Trichlorophenol	9.30	196	102436	62.16 ng/µl	91
39) 1,1'-Biphenyl	9.53	154	372704	59.03 ng/µl	100
40) 2-Chloronaphthalene	9.58	162	290712	58.80 ng/µl	98
41) 2-Nitroaniline	9.77	65	135000	58.16 ng/µl	88

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

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07780.D Vial: 5
Acq On : 8 Jun 2011 7:41 pm Operator: MIZ
Sample : BNA MIX 1&2 120 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 11:22:01 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:21:24 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

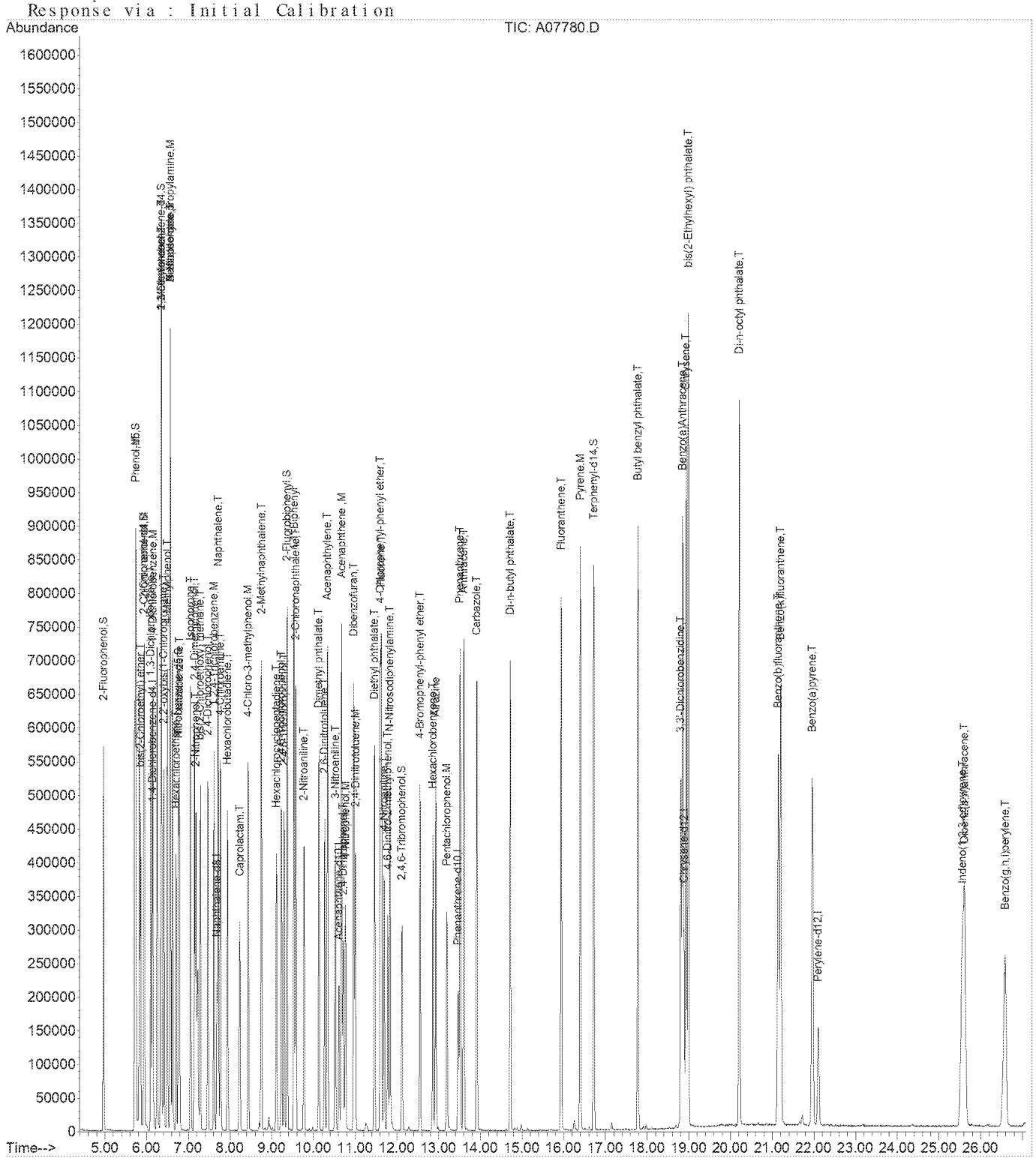
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
42) Acenaphthylene	10.34	152	464471	59.37 ng/µl	99
43) Dimethyl phthalate	10.13	163	338011	58.90 ng/µl	93
44) 2,6-Dinitrotoluene	10.27	165	81496	59.92 ng/µl	85
45) 3-Nitroaniline	10.52	138	88712	56.94 ng/µl	81
46) Acenaphthene	10.67	153	274095	57.75 ng/µl	99
47) 2,4-Dinitrophenol	10.71	184	52247	61.34 ng/µl	94
48) Dibenzofuran	10.97	168	418586	58.49 ng/µl	99
49) 4-Nitrophenol	10.77	109	62194	57.48 ng/µl	73
50) 2,4-Dinitrotoluene	11.00	165	110045	60.24 ng/µl	84
51) Fluorene	11.62	166	340461	58.14 ng/µl	96
52) Diethyl phthalate	11.46	149	324849	58.88 ng/µl	97
53) 4-Chlorophenyl-phenyl ethe	11.60	204	160762	58.20 ng/µl	92
54) 4-Nitroaniline	11.69	138	88686	57.09 ng/µl	79
57) 4,6-Dinitro-2-methylphenol	11.78	198	66756	59.74 ng/µl	98
58) N-Nitrosodiphenylamine	11.83	169	215304	57.20 ng/µl	91
59) 4-Bromophenyl-phenyl ether	12.56	248	90761	58.88 ng/µl	87
60) Atrazine	12.93	200	96726	58.20 ng/µl	98
61) Hexachlorobenzene	12.87	284	94662	58.55 ng/µl	97
62) Pentachlorophenol	13.20	266	59652	59.29 ng/µl	92
63) Phenanthrene	13.52	178	475684	58.07 ng/µl	99
64) Anthracene	13.61	178	480674	58.05 ng/µl	96
65) Carbazole	13.92	167	458110	58.13 ng/µl	97
66) Di-n-butyl phthalate	14.72	149	528805	58.60 ng/µl	99
67) Fluoranthene	15.94	202	551267	59.72 ng/µl	92
69) Pyrene	16.40	202	610506	56.03 ng/µl	91
71) Butyl benzyl phthalate	17.78	149	317917	58.92 ng/µl	85
72) Benzo(a)Anthracene	18.85	228	662791	58.75 ng/µl	98
73) 3,3'-Dichlorobenzidine	18.80	252	181104	53.33 ng/µl	95
74) Chrysene	18.94	228	621092	58.21 ng/µl	98
75) bis(2-Ethylhexyl) phthalat	18.99	149	477286	58.34 ng/µl	97
77) Di-n-octyl phthalate	20.21	149	866202	62.76 ng/µl	97
78) Benzo(b)fluoranthene	21.14	252	492464	54.56 ng/µl	97
79) Benzo(k)fluoranthene	21.20	252	514072	58.62 ng/µl	97
80) Benzo(a)pyrene	21.96	252	507651	59.52 ng/µl	90
81) Indeno(1,2,3-cd)pyrene	25.55	276	532765	60.65 ng/µl	94
82) Dibenz(a,h)anthracene	25.62	278	442215	60.31 ng/µl	88
83) Benzo(g,h,i)perylene	26.59	276	442641	59.56 ng/µl	92

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

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07780.D Vial: 5
Acq On : 8 Jun 2011 7:41 pm Operator: MIZ
Sample : BNA MIX 1&2 120 Inst : DEL6
Msc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 11:22 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07781.D Vial: 6
Acq On : 8 Jun 2011 8:18 pm Operator: MIZ
Sample : BNA MIX 1&2 160 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 11:22:02 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:21:24 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.12	152	35804	20.00 ng/µl	0.00
19) Naphthalene-d8	7.67	136	134040	20.00 ng/µl	-0.01
34) Acenaphthene-d10	10.60	164	80702	20.00 ng/µl	-0.01
56) Phenanthrene-d10	13.45	188	144954	20.00 ng/µl	-0.02
68) Chrysene-d12	18.87	240	201455	20.00 ng/µl	-0.01
76) Perylene-d12	22.08	264	154191	20.00 ng/µl	-0.02
System Monitoring Compounds					
2) 2-Fluorophenol	4.96	112	254179	78.88 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 105.17%		
4) Phenol-d5	5.73	99	350678	80.59 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 107.45%		
6) 2-Chlorophenol-d4	5.92	132	227879	79.15 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 105.53%		
11) 1,2-Dichlorobenzene-d4	6.33	152	153335	78.23 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 156.46%#		
20) Nitrobenzene-d5	6.75	82	348463	82.56 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 165.12%#		
38) 2-Fluorobiphenyl	9.35	172	524551	79.14 ng/µl	-0.02
Spiked Amount 50.000	Range 43 - 116		Recovery = 158.28%#		
55) 2,4,6-Tribromophenol	12.11	330	74247	81.57 ng/µl	-0.01
Spiked Amount 75.000	Range 10 - 123		Recovery = 108.76%		
70) Terphenyl-d14	16.70	244	731459	81.13 ng/µl	-0.02
Spiked Amount 50.000	Range 33 - 141		Recovery = 162.26%#		

Target Compounds					Qvalue
3) Benzaldehyde	6.56	105	366918	78.46 ng/µl	96
5) Phenol	5.74	94	360047	80.33 ng/µl	93
7) 2-Chlorophenol	5.94	128	226501	78.95 ng/µl	88
8) bis(2-Chloroethyl) ether	5.84	93	256777	78.83 ng/µl	99
9) 1,3-Dichlorobenzene	6.09	146	238701	78.88 ng/µl	93
10) 1,4-Dichlorobenzene	6.14	146	250026	79.59 ng/µl	92
12) 1,2-Dichlorobenzene	6.35	146	220953	77.15 ng/µl	99
13) 2-Methylphenol	6.34	108	241630	76.97 ng/µl	91
14) 2,2'-oxybis(1-Chloropropan	6.40	45	419540	77.01 ng/µl	94
15) Hexachloroethane	6.69	117	101436	78.29 ng/µl	88
16) Acetophenone	6.56	105	366918	78.46 ng/µl	94
17) 4-Methylphenol	6.48	108	256682	77.78 ng/µl	99
18) N-Nitroso-di-n-propylamine	6.56	70	232428	78.18 ng/µl	85
21) Nitrobenzene	6.77	77	344520	83.87 ng/µl	88
22) Isophorone	7.04	82	608202	83.71 ng/µl	86
23) 2-Nitrophenol	7.16	139	126869	83.13 ng/µl	91
24) 2,4-Dimethylphenol	7.14	107	238604	78.42 ng/µl	98
25) bis(2-Chloroethoxy) methan	7.28	93	321012	83.24 ng/µl	96
26) 2,4-Dichlorophenol	7.46	162	192837	83.33 ng/µl	92
27) 1,2,4-Trichlorobenzene	7.60	180	201661	81.25 ng/µl	93
28) Naphthalene	7.70	128	639134	81.28 ng/µl	96
29) 4-Chloroaniline	7.76	127	279429	79.03 ng/µl	92
30) Hexachlorobutadiene	7.93	225	116904	83.11 ng/µl	95
31) Caprolactam	8.23	113	94196	86.48 ng/µl #	77
32) 4-Chloro-3-methylphenol	8.42	107	248796	83.86 ng/µl	87
33) 2-Methylnaphthalene	8.73	142	423323	82.36 ng/µl	95
35) Hexachlorocyclopentadiene	9.10	237	151368	82.71 ng/µl	92
36) 2,4,6-Trichlorophenol	9.22	196	145463	81.12 ng/µl	100
37) 2,4,5-Trichlorophenol	9.28	196	152467	85.02 ng/µl	100
39) 1,1'-Biphenyl	9.52	154	541469	78.81 ng/µl	100
40) 2-Chloronaphthalene	9.56	162	430869	80.09 ng/µl	99
41) 2-Nitroaniline	9.76	65	202428	80.15 ng/µl	89

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

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07781.D Vial: 6
Acq On : 8 Jun 2011 8:18 pm Operator: MIZ
Sample : BNA MIX 1&2 160 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 11:22:02 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:21:24 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

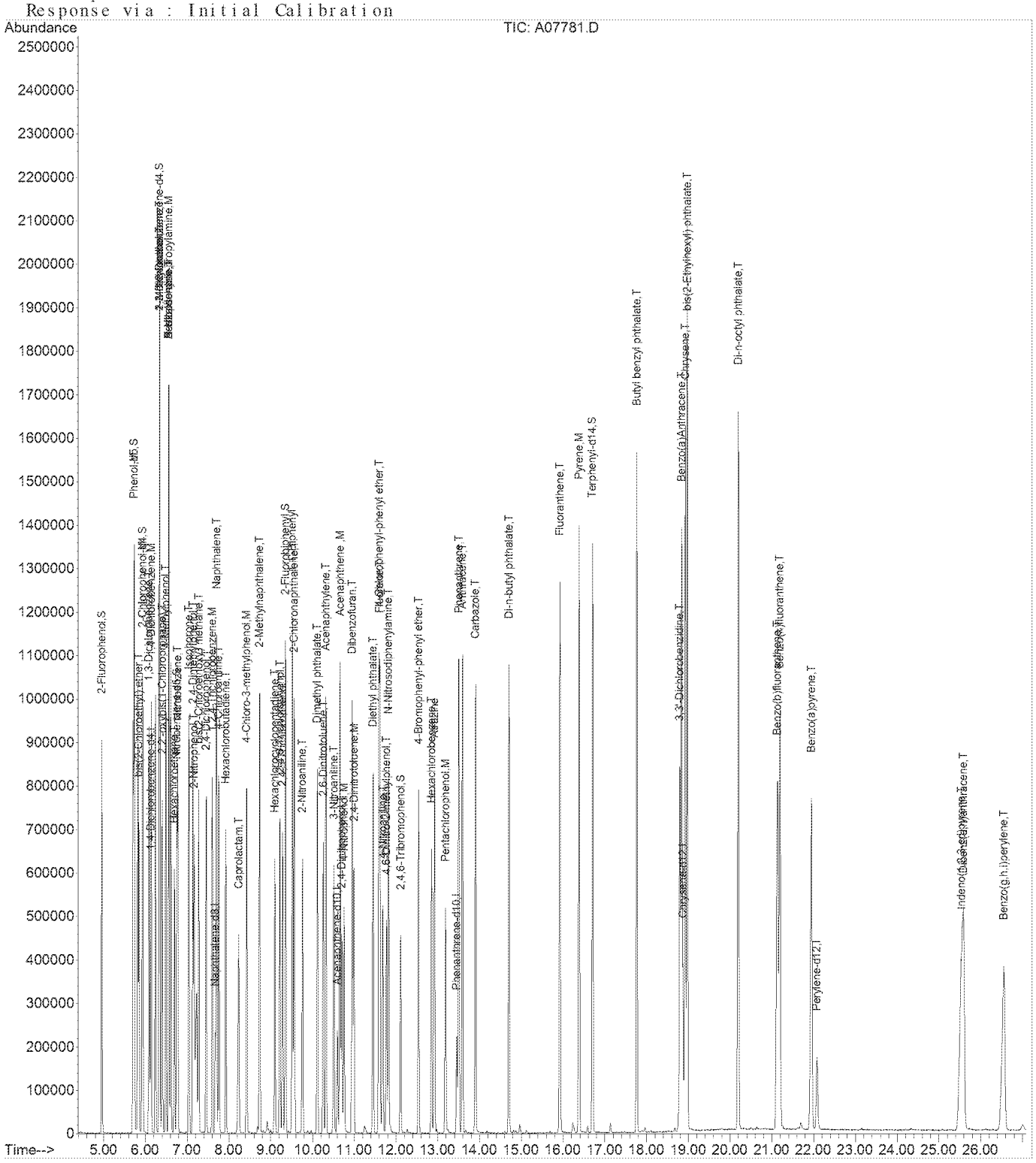
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	10.32	152	682773	80.20 ng/µl	100
43) Dimethyl phthalate	10.12	163	504798	80.84 ng/µl	87
44) 2,6-Dinitrotoluene	10.26	165	121691	82.23 ng/µl	89
45) 3-Nitroaniline	10.51	138	133033	78.47 ng/µl	84
46) Acenaphthene	10.66	153	419888	81.30 ng/µl	99
47) 2,4-Dinitrophenol	10.70	184	86082	92.87 ng/µl	100
48) Dibenzofuran	10.95	168	623454	80.07 ng/µl	97
49) 4-Nitrophenol	10.76	109	99656	84.64 ng/µl	74
50) 2,4-Dinitrotoluene	10.99	165	163694	82.36 ng/µl	88
51) Fluorene	11.61	166	510434	80.11 ng/µl	91
52) Diethyl phthalate	11.45	149	484036	80.63 ng/µl	95
53) 4-Chlorophenyl-phenyl ethe	11.59	204	238693	79.41 ng/µl	95
54) 4-Nitroaniline	11.69	138	136222	80.59 ng/µl	83
57) 4,6-Dinitro-2-methylphenol	11.77	198	109967	88.53 ng/µl	97
58) N-Nitrosodiphenylamine	11.82	169	338863	80.99 ng/µl	96
59) 4-Bromophenyl-phenyl ether	12.54	248	139458	81.39 ng/µl	89
60) Atrazine	12.93	200	153055	82.85 ng/µl	100
61) Hexachlorobenzene	12.85	284	143377	79.78 ng/µl	77
62) Pentachlorophenol	13.18	266	96730	86.49 ng/µl	97
63) Phenanthrene	13.50	178	735178	80.74 ng/µl	94
64) Anthracene	13.60	178	745345	80.98 ng/µl	96
65) Carbazole	13.90	167	706100	80.60 ng/µl	97
66) Di-n-butyl phthalate	14.70	149	841747	83.91 ng/µl	98
67) Fluoranthene	15.92	202	910953	88.77 ng/µl	94
69) Pyrene	16.39	202	1016450	81.47 ng/µl	89
71) Butyl benzyl phthalate	17.77	149	547280	88.59 ng/µl	82
72) Benzo(a)Anthracene	18.84	228	1059166	81.98 ng/µl	98
73) 3,3'-Dichlorobenzidine	18.80	252	291307	74.91 ng/µl	97
74) Chrysene	18.93	228	981156	80.31 ng/µl	97
75) bis(2-Ethylhexyl) phthalat	18.97	149	828584	88.46 ng/µl	97
77) Di-n-octyl phthalate	20.20	149	1365677	88.61 ng/µl	97
78) Benzo(b)fluoranthene	21.13	252	807731	80.14 ng/µl	96
79) Benzo(k)fluoranthene	21.19	252	793432	81.03 ng/µl	99
80) Benzo(a)pyrene	21.95	252	793051	83.27 ng/µl	88
81) Indeno(1,2,3-cd)pyrene	25.53	276	761904	77.68 ng/µl	95
82) Dibenz(a,h)anthracene	25.59	278	639998	78.17 ng/µl	89
83) Benzo(g,h,i)perylene	26.55	276	670538	80.80 ng/µl	98

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

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07781.D Vial: 6
Acq On : 8 Jun 2011 8:18 pm Operator: MIZ
Sample : BNA MIX 1&2 160 Inst : DEL6
Msc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 11:22 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM.1\DATA\MS60608L.MIZ\A07792.D Vial: 2
Acq On : 9 Jun 2011 3:00 am Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P

Method : C:\MSDCHEM.1\METHODS\I60609.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	80	-0.01
2	S	2-Fluorophenol	1.800	1.804	-0.2	78	-0.01
3	T	Benzaldehyde	2.612	2.636	-0.9	80	-0.02
4	S	Phenol-d5	2.431	2.436	-0.2	80	-0.01
5	M	Phenol	2.504	2.500	0.2	79	-0.01
6	S	2-Chlorophenol-d4	1.608	1.580	1.7	79	-0.01
7	M	2-Chlorophenol	1.603	1.601	0.1	80	-0.01
8	T	bis(2-Chloroethyl) ether	1.820	1.901	-4.5	81	-0.01
9	T	1,3-Dichlorobenzene	1.690	1.776	-5.1	83	-0.01
10	M	1,4-Dichlorobenzene	1.755	1.783	-1.6	80	-0.02
11	S	1,2-Dichlorobenzene-d4	1.095	1.132	-3.4	82	-0.01
12	T	1,2-Dichlorobenzene	1.600	1.637	-2.3	81	-0.01
13	T	2-Methylphenol	1.754	1.886	-7.5	86	-0.01
14	T	2,2'-oxybis(1-Chloropropane	3.043	3.082	-1.3	81	-0.02
15	T	Hexachloroethane	0.724	0.744	-2.8	83	-0.01
16	T	Acetophenone	2.612	2.636	-0.9	80	-0.02
17	T	4-Methylphenol	1.843	1.850	-0.4	79	-0.01
18	M	N-Nitroso-di-n-propylamine	1.661	1.695	-2.0	81	-0.01
19	I	Naphthalene-d8	1.000	1.000	0.0	80	-0.01
20	S	Nitrobenzene-d5	0.630	0.634	-0.6	79	-0.01
21	T	Nitrobenzene	0.613	0.612	0.2	79	-0.02
22	T	Isophorone	1.084	1.082	0.2	79	-0.01
23	T	2-Nitrophenol	0.228	0.227	0.4	78	-0.01
24	T	2,4-Dimethylphenol	0.454	0.473	-4.2	81	-0.01
25	T	bis(2-Chloroethoxy) methane	0.575	0.577	-0.3	79	-0.02
26	T	2,4-Dichlorophenol	0.345	0.341	1.2	78	-0.01
27	M	1,2,4-Trichlorobenzene	0.370	0.375	-1.4	80	-0.02
28	T	Naphthalene	1.173	1.200	-2.3	79	-0.02
29	T	4-Chloroaniline	0.528	0.524	0.8	76	-0.02
30	T	Hexachlorobutadiene	0.210	0.224	-6.7	84	-0.02
31	T	Caprolactam	0.163	0.153	6.1	74	-0.03
32	M	4-Chloro-3-methylphenol	0.443	0.434	2.0	76	-0.01
33	T	2-Methylnaphthalene	0.767	0.784	-2.2	82	-0.02
34	I	Acenaphthene-d10	1.000	1.000	0.0	78	-0.02
35	T	Hexachlorocyclopentadiene	0.454	0.460	-1.3	76	-0.02
36	T	2,4,6-Trichlorophenol	0.444	0.434	2.3	74	-0.02
37	T	2,4,5-Trichlorophenol	0.477	0.446	6.5	70	-0.02
38	S	2-Fluorobiphenyl	1.643	1.724	-4.9	80	-0.02
39		1,1'-Biphenyl	1.703	1.743	-2.3	78	-0.02
40	T	2-Chloronaphthalene	1.333	1.378	-3.4	79	-0.02
41	T	2-Nitroaniline	0.626	0.591	5.6	70	-0.02
42	T	Acenaphthylene	2.110	2.124	-0.7	76	-0.02
43	T	Dimethyl phthalate	1.548	1.534	0.9	76	-0.02
44	T	2,6-Dinitrotoluene	0.367	0.362	1.4	75	-0.02
45	T	3-Nitroaniline	0.420	0.402	4.3	71	-0.02
46	M	Acenaphthene	1.280	1.300	-1.6	77	-0.02
47	T	2,4-Dinitrophenol	0.230	0.196	14.8	65	-0.02
48	T	Dibenzofuran	1.930	1.907	1.2	75	-0.02
49	M	4-Nitrophenol	0.292	0.263	9.9	65	-0.02
50	M	2,4-Dinitrotoluene	0.493	0.462	6.3	71	-0.02
51	T	Fluorene	1.579	1.530	3.1	73	-0.02
52	T	Diethyl phthalate	1.488	1.443	3.0	73	-0.02
53	T	4-Chlorophenyl-phenyl ether	0.745	0.740	0.7	75	-0.02
54	T	4-Nitroaniline	0.419	0.382	8.8	66	-0.03
55	S	2,4,6-Tribromophenol	0.226	0.213	5.8	74	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07792.D Vial: 2
Acq On : 9 Jun 2011 3:00 am Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	I	Phenanthrene-d10	1.000	1.000	0.0	71	-0.02
57	T	4,6-Dinitro-2-methylphenol	0.171	0.162	5.3	67	-0.02
58	T	N-Nitrosodiphenylamine	0.577	0.629	-9.0	74	-0.02
59	T	4-Bromophenyl-phenyl ether	0.236	0.252	-6.8	75	-0.02
60		Atrazine	0.255	0.259	-1.6	72	-0.02
61	T	Hexachlorobenzene	0.248	0.253	-2.0	71	-0.02
62	M	Pentachlorophenol	0.154	0.159	-3.2	68	-0.02
63	T	Phenanthrene	1.256	1.265	-0.7	70	-0.02
64	T	Anthracene	1.270	1.287	-1.3	70	-0.02
65	T	Carbazole	1.209	1.231	-1.8	70	-0.02
66	T	Di-n-butyl phthalate	1.384	1.385	-0.1	71	-0.02
67	T	Fluoranthene	1.416	1.378	2.7	70	-0.02
68	I	Chrysene-d12	1.000	1.000	0.0	79	-0.02
69	M	Pyrene	1.239	1.124	9.3	71	-0.02
70	S	Terphenyl-d14	0.895	0.798	10.8	70	-0.02
71	T	Butyl benzyl phthalate	0.613	0.542	11.6	71	-0.02
72	T	Benzo(a)Anthracene	1.283	1.270	1.0	79	-0.02
73	T	3,3'-Dichlorobenzidine	0.386	0.434	-12.4	87	-0.03
74	T	Chrysene	1.213	1.216	-0.2	79	-0.02
75	T	bis(2-Ethylhexyl) phthalate	0.930	0.835	10.2	71	-0.02
76	I	Perylene-d12	1.000	1.000	0.0	72	-0.03
77	T	Di-n-octyl phthalate	1.999	1.966	1.7	72	-0.02
78	T	Benzo(b)fluoranthene	1.307	1.418	-8.5	76	-0.03
79	T	Benzo(k)fluoranthene	1.270	1.312	-3.3	74	-0.03
80	T	Benzo(a)pyrene	1.235	1.255	-1.6	73	-0.03
81	T	Indeno(1,2,3-cd)pyrene	1.272	1.210	4.9	67	-0.06
82	T	Dibenz(a,h)anthracene	1.062	1.022	3.8	69	-0.06
83	T	Benzo(g,h,i)perylene	1.076	1.007	6.4	67	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07792.D Vial: 2
Acq On : 9 Jun 2011 3:00 am Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 11:25:56 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.12	152	29344	20.00 ng/µl	-0.01
19) Naphthalene-d8	7.67	136	114278	20.00 ng/µl	-0.01
34) Acenaphthene-d10	10.59	164	64264	20.00 ng/µl	-0.02
56) Phenanthrene-d10	13.45	188	104954	20.00 ng/µl	-0.02
68) Chrysene-d12	18.86	240	142499	20.00 ng/µl	-0.02
76) Perylene-d12	22.07	264	114939	20.00 ng/µl	-0.03
System Monitoring Compounds					
2) 2-Fluorophenol	4.95	112	66169	25.05 ng/µl	-0.01
Spiked Amount 75.000	Range 21 - 110		Recovery = 33.40%		
4) Phenol-d5	5.72	99	89368	25.06 ng/µl	-0.01
Spiked Amount 75.000	Range 10 - 110		Recovery = 33.41%		
6) 2-Chlorophenol-d4	5.92	132	57951	24.56 ng/µl	-0.01
Spiked Amount 75.000	Range 33 - 110		Recovery = 32.75%#		
11) 1,2-Dichlorobenzene-d4	6.32	152	41518	25.85 ng/µl	-0.01
Spiked Amount 50.000	Range 16 - 110		Recovery = 51.70%		
20) Nitrobenzene-d5	6.75	82	90607	25.18 ng/µl	-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 50.36%		
38) 2-Fluorobiphenyl	9.35	172	138516	26.24 ng/µl	-0.02
Spiked Amount 50.000	Range 43 - 116		Recovery = 52.48%		
55) 2,4,6-Tribromophenol	12.10	330	17138	23.65 ng/µl	-0.02
Spiked Amount 75.000	Range 10 - 123		Recovery = 31.53%		
70) Terphenyl-d14	16.70	244	142175	22.29 ng/µl	-0.02
Spiked Amount 50.000	Range 33 - 141		Recovery = 44.58%		
Target Compounds					Qvalue
3) Benzaldehyde	6.55	105	96691	25.23 ng/µl	99
5) Phenol	5.73	94	91690	24.96 ng/µl	93
7) 2-Chlorophenol	5.93	128	58720	24.97 ng/µl	90
8) bis(2-Chloroethyl) ether	5.84	93	69742	26.12 ng/µl	93
9) 1,3-Dichlorobenzene	6.08	146	65131	26.26 ng/µl	95
10) 1,4-Dichlorobenzene	6.13	146	65407	25.40 ng/µl	92
12) 1,2-Dichlorobenzene	6.34	146	60049	25.58 ng/µl	92
13) 2-Methylphenol	6.34	108	69171	26.89 ng/µl	95
14) 2,2'-oxybis(1-Chloropropan	6.39	45	113066	25.32 ng/µl	96
15) Hexachloroethane	6.69	117	27286	25.70 ng/µl	86
16) Acetophenone	6.55	105	96691	25.23 ng/µl	96
17) 4-Methylphenol	6.48	108	67862	25.09 ng/µl	94
18) N-Nitroso-di-n-propylamine	6.55	70	62172	25.51 ng/µl	82
21) Nitrobenzene	6.77	77	87476	24.98 ng/µl	89
22) Isophorone	7.03	82	154535	24.95 ng/µl	88
23) 2-Nitrophenol	7.16	139	32436	24.93 ng/µl	90
24) 2,4-Dimethylphenol	7.13	107	67501	26.02 ng/µl	97
25) bis(2-Chloroethoxy) methan	7.27	93	82406	25.06 ng/µl	95
26) 2,4-Dichlorophenol	7.45	162	48769	24.72 ng/µl	92
27) 1,2,4-Trichlorobenzene	7.60	180	53636	25.35 ng/µl	98
28) Naphthalene	7.70	128	171392	25.56 ng/µl	97
29) 4-Chloroaniline	7.75	127	74887	24.84 ng/µl	89
30) Hexachlorobutadiene	7.92	225	31955	26.65 ng/µl	89
31) Caprolactam	8.19	113	21797	23.47 ng/µl #	76
32) 4-Chloro-3-methylphenol	8.42	107	62059	24.53 ng/µl	94
33) 2-Methylnaphthalene	8.73	142	112059	25.57 ng/µl	96
35) Hexachlorocyclopentadiene	9.10	237	36958	25.36 ng/µl	95
36) 2,4,6-Trichlorophenol	9.21	196	34846	24.40 ng/µl	87
37) 2,4,5-Trichlorophenol	9.28	196	35843	23.40 ng/µl	86
39) 1,1'-Biphenyl	9.51	154	139991	25.59 ng/µl	100
40) 2-Chloronaphthalene	9.56	162	110685	25.84 ng/µl	97
41) 2-Nitroaniline	9.75	65	47464	23.60 ng/µl	94

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

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07792.D Vial: 2
Acq On : 9 Jun 2011 3:00 am Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 11:25:56 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

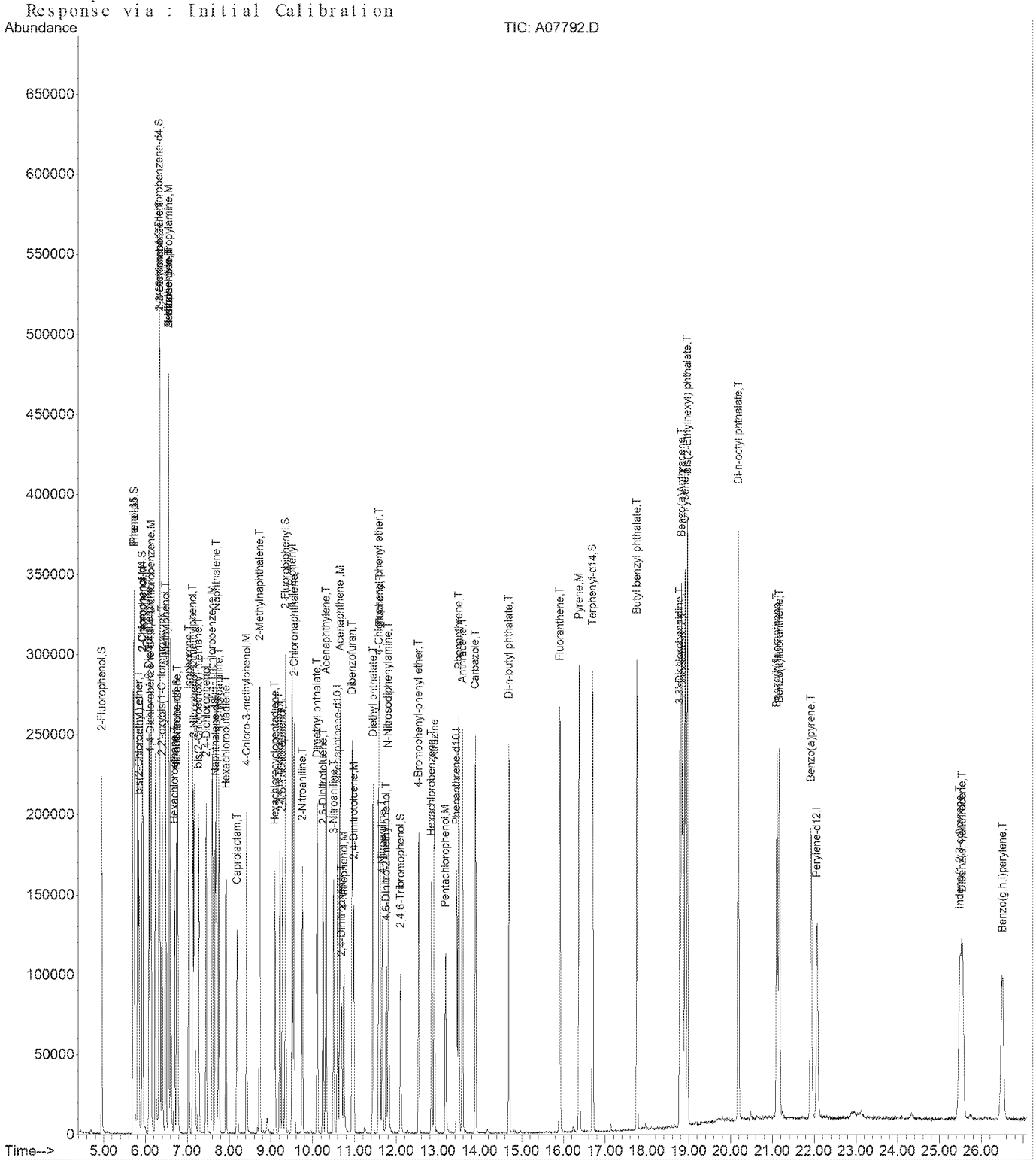
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	10.31	152	170590	25.16 ng/µl	98
43) Dimethyl phthalate	10.11	163	123210	24.78 ng/µl	93
44) 2,6-Dinitrotoluene	10.25	165	29084	24.68 ng/µl	94
45) 3-Nitroaniline	10.50	138	32327	23.95 ng/µl	86
46) Acenaphthene	10.66	153	104415	25.39 ng/µl	98
47) 2,4-Dinitrophenol	10.69	184	15756	21.35 ng/µl	97
48) Dibenzofuran	10.95	168	153200	24.71 ng/µl	98
49) 4-Nitrophenol	10.74	109	21105	22.51 ng/µl	68
50) 2,4-Dinitrotoluene	10.98	165	37129	23.46 ng/µl	89
51) Fluorene	11.60	166	122935	24.23 ng/µl	96
52) Diethyl phthalate	11.44	149	115909	24.25 ng/µl	97
53) 4-Chlorophenyl-phenyl ethe	11.58	204	59408	24.82 ng/µl	94
54) 4-Nitroaniline	11.66	138	30676	22.79 ng/µl	85
57) 4,6-Dinitro-2-methylphenol	11.76	198	21269	23.65 ng/µl	100
58) N-Nitrosodiphenylamine	11.81	169	82487	27.23 ng/µl	92
59) 4-Bromophenyl-phenyl ether	12.54	248	33084	26.67 ng/µl	87
60) Atrazine	12.91	200	33967	25.39 ng/µl	98
61) Hexachlorobenzene	12.85	284	33257	25.56 ng/µl	97
62) Pentachlorophenol	13.18	266	20923	25.84 ng/µl	77
63) Phenanthrene	13.49	178	165952	25.17 ng/µl	98
64) Anthracene	13.58	178	168877	25.34 ng/µl	99
65) Carbazole	13.89	167	161496	25.46 ng/µl	94
66) Di-n-butyl phthalate	14.70	149	181641	25.01 ng/µl	98
67) Fluoranthene	15.91	202	180848	24.34 ng/µl	92
69) Pyrene	16.38	202	200212	22.69 ng/µl	89
71) Butyl benzyl phthalate	17.76	149	96503	22.08 ng/µl	84
72) Benzo(a)Anthracene	18.83	228	226177	24.75 ng/µl	99
73) 3,3'-Dichlorobenzidine	18.78	252	77312	28.11 ng/µl	98
74) Chrysene	18.91	228	216580	25.06 ng/µl	96
75) bis(2-Ethylhexyl) phthalat	18.96	149	148814	22.46 ng/µl	99
77) Di-n-octyl phthalate	20.18	149	282486	24.59 ng/µl	97
78) Benzo(b)fluoranthene	21.11	252	203675	27.11 ng/µl	95
79) Benzo(k)fluoranthene	21.17	252	188509	25.83 ng/µl	97
80) Benzo(a)pyrene	21.92	252	180257	25.39 ng/µl	89
81) Indeno(1,2,3-cd)pyrene	25.48	276	173810	23.77 ng/µl	91
82) Dibenz(a,h)anthracene	25.54	278	146817	24.06 ng/µl	89
83) Benzo(g,h,i)perylene	26.51	276	144750	23.40 ng/µl	96

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

Quantitation Report (Not Reviewed)

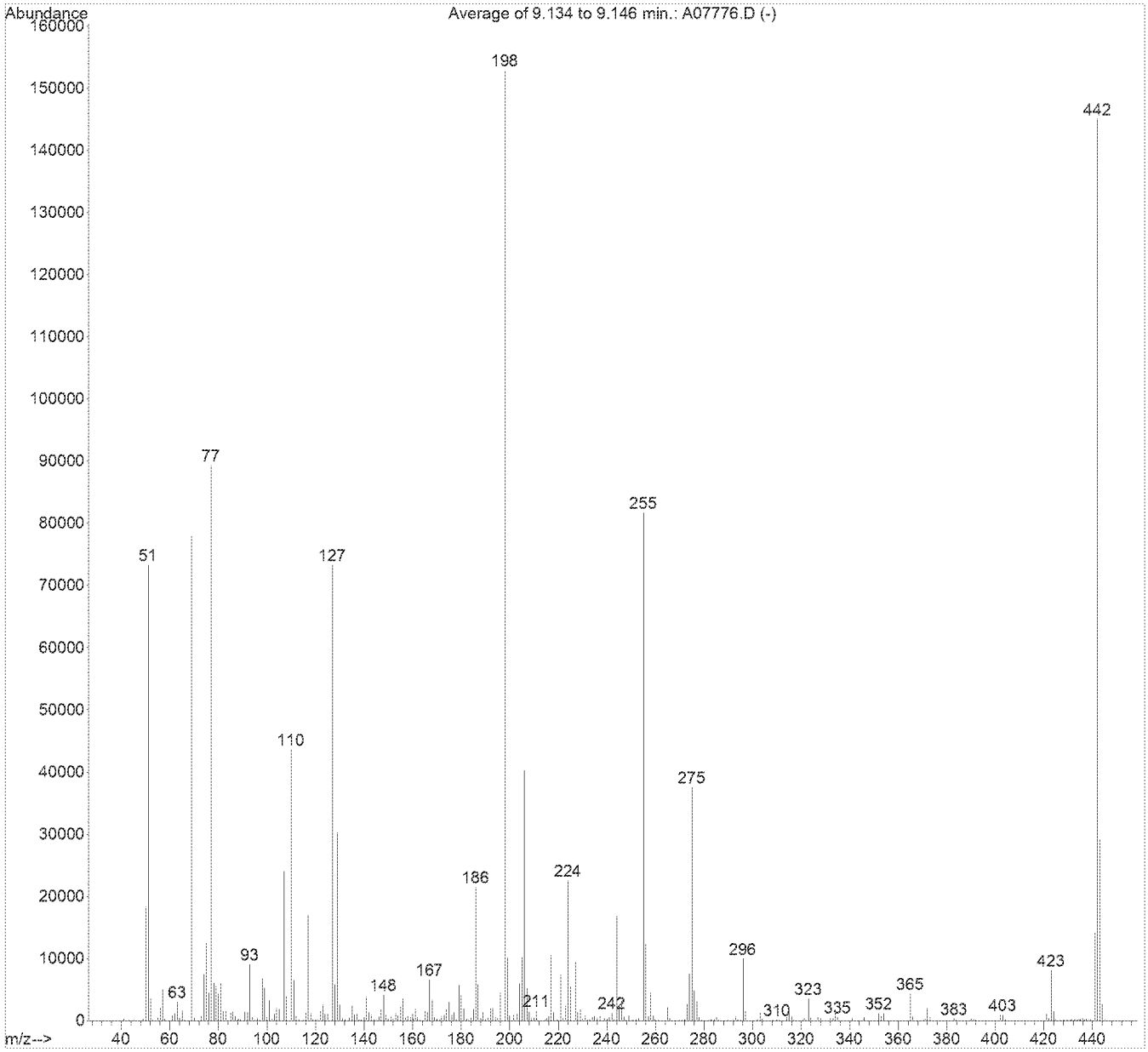
Data File : C:\MSDCHEM.1\DATA\MS60608L.MIZ\A07792.D Vial: 2
Acq On : 9 Jun 2011 3:00 am Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Msc : 6/8/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 11:25 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM.1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 11:22:34 2011
Response via : Initial Calibration



DFTPP CLP Results

C:\MSDCHEM1\DATA\MS60608L.MIZ\A07776.D Thu Jun 09 11:39:52 2011



Peak Apex is scan: 1041
Average of 3 scans: 1040,1041,1042 minus background scan 1021

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	80	47.9	PASS
68	69	0	2	0.0	PASS
69	198	0	100	51.0	PASS
70	69	0	2	0.5	PASS
127	198	25	75	47.9	PASS
197	198	0	1	0.0	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.7	PASS
275	198	10	30	24.5	PASS
365	198	1	100	2.8	PASS
441	443	0	100	49.0	PASS
442	198	40	110	94.9	PASS
443	442	15	24	20.1	PASS

Average of 9.134 to 9.146 min.: A07776.D
DFTPP
Mbdified: subtracted

40.10	68.0
41.05	227.0
43.10	58.0
45.10	114.0
46.95	58.0
48.00	81.0
49.05	302.0
50.10	18288.0
51.10	73251.0
52.10	3448.0
53.10	120.0
55.10	427.0
56.10	2175.0
57.10	5035.0
58.00	208.0
61.10	892.0
62.05	1089.0
63.10	2990.0
64.10	424.0
65.10	1597.0
66.10	116.0
67.00	65.0
69.00	77920.0
70.05	416.0
73.05	650.0
74.10	7455.0
75.05	12422.0
76.10	4484.0
77.10	89368.0
78.10	6040.0
79.00	5522.0
80.00	4255.0
81.00	5943.0
82.00	1475.0
83.00	1537.0
85.05	1240.0
86.00	1404.0
86.95	735.0
87.90	114.0
88.15	224.0
89.05	144.0
91.00	1366.0
92.05	1368.0
93.00	9000.0
94.00	595.0
95.00	60.0
95.20	66.0
96.00	423.0
96.90	80.0
98.00	6742.0
99.00	5223.0
99.95	477.0
101.05	3216.0
102.05	232.0
103.00	1025.0
104.00	1993.0
105.00	1858.0
106.00	118.0
107.00	23975.0
108.00	3907.0
110.00	43538.0
111.00	6470.0
112.05	682.0
113.05	195.0
115.10	57.0
116.00	1282.0
117.00	17003.0
118.00	1205.0
118.95	158.0
120.00	366.0
121.05	160.0
122.05	1438.0
123.00	2549.0
124.00	1053.0

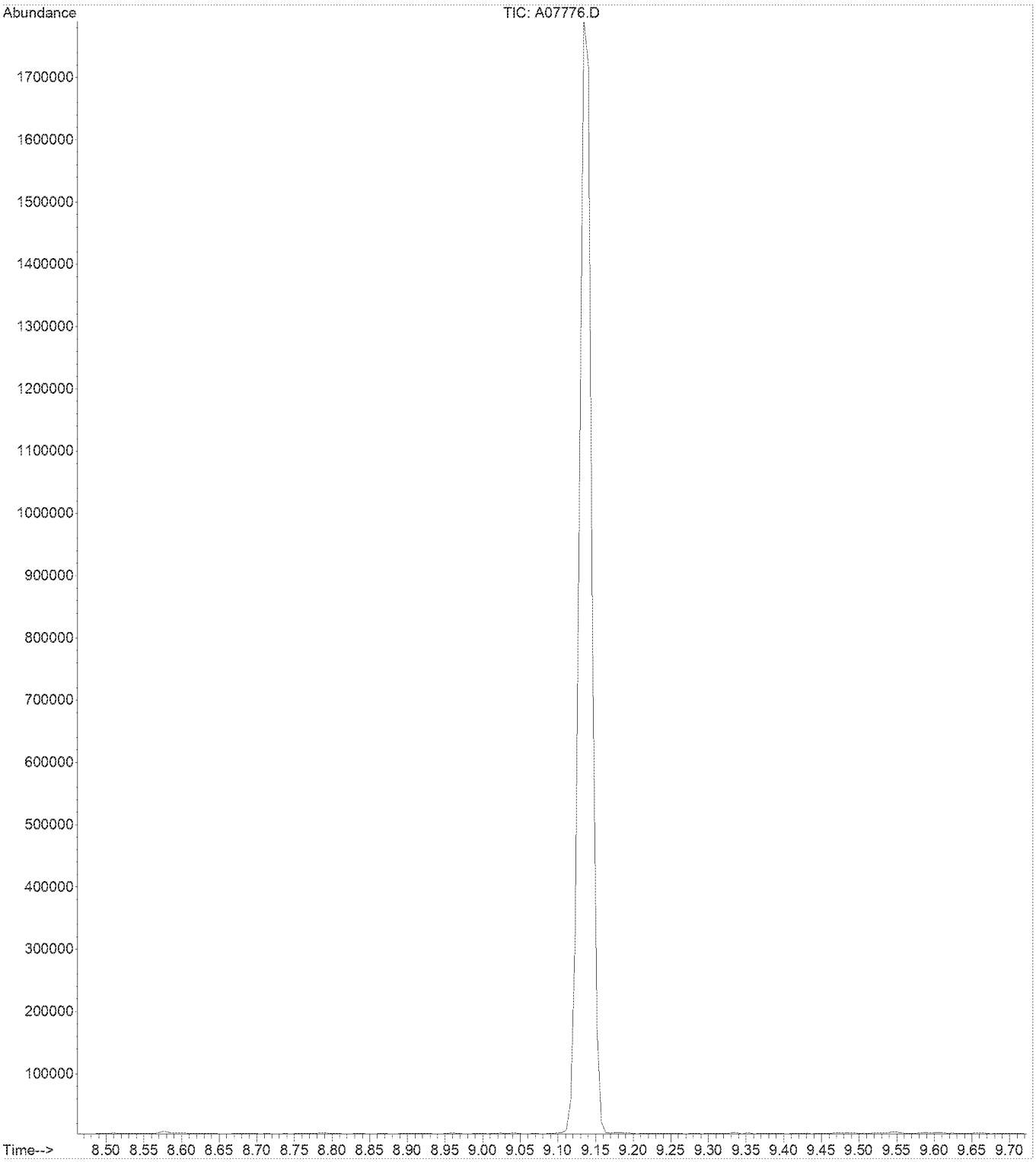
125.00	1119.0
127.00	73248.0
128.00	5754.0
129.00	30249.0
130.00	2551.0
130.95	449.0
132.10	276.0
133.10	128.0
133.90	290.0
134.05	407.0
135.00	2469.0
136.05	927.0
137.05	1141.0
137.80	107.0
138.10	114.0
138.70	100.0
139.00	52.0
140.00	497.0
141.00	3833.0
142.00	1293.0
143.00	921.0
143.90	121.0
144.05	143.0
144.95	200.0
146.00	644.0
147.05	1877.0
148.00	4108.0
149.00	858.0
150.00	266.0
151.05	577.0
151.80	123.0
152.00	244.0
153.00	1236.0
154.00	892.0
155.00	2156.0
156.00	3464.0
157.15	643.0
157.95	726.0
159.00	566.0
160.00	1008.0
160.20	208.0
161.05	1834.0
161.95	495.0
162.90	79.0
163.95	132.0
165.05	1527.0
166.10	1382.0
167.00	6556.0
168.00	3351.0
169.05	536.0
169.80	55.0
170.10	212.0
171.10	301.0
172.00	687.0
173.00	910.0
174.00	1772.0
175.05	2971.0
176.10	847.0
177.00	1264.0
177.95	329.0
179.00	5698.0
180.05	4033.0
181.05	1955.0
182.10	309.0
182.95	137.0
184.05	570.0
185.05	1847.0
186.00	21465.0
187.00	5812.0
188.00	375.0
188.20	181.0
188.95	1353.0
190.05	205.0
190.95	401.0
192.00	1876.0
193.00	2014.0
194.05	498.0

194.95	289.0
196.05	4439.0
198.00	152909.0
199.00	10178.0
200.00	784.0
201.40	847.0
201.80	200.0
203.00	1125.0
204.00	5941.0
205.05	10147.0
206.00	40240.0
207.05	5166.0
208.00	1406.0
208.95	414.0
210.05	446.0
210.95	1555.0
211.20	284.0
212.20	52.0
214.80	173.0
215.10	374.0
216.00	674.0
217.00	10517.0
218.00	1266.0
219.00	78.0
219.40	64.0
219.60	115.0
221.05	7379.0
221.80	365.0
223.00	2322.0
224.00	22520.0
225.00	5410.0
225.90	129.0
227.00	9499.0
228.05	1399.0
229.00	1831.0
229.95	257.0
231.00	799.0
232.00	135.0
233.00	151.0
233.70	106.0
234.00	595.0
235.00	659.0
236.00	437.0
237.10	694.0
238.90	291.0
239.30	85.0
240.05	354.0
241.00	555.0
242.00	1192.0
242.90	165.0
244.00	16835.0
245.10	2188.0
246.00	3191.0
246.95	635.0
247.75	126.0
249.05	752.0
250.00	122.0
250.40	52.0
250.90	118.0
251.20	75.0
251.95	305.0
252.60	97.0
253.00	303.0
253.15	374.0
255.00	81733.0
256.00	12293.0
257.05	665.0
257.90	4430.0
259.00	780.0
259.80	144.0
261.05	133.0
265.00	2141.0
265.90	305.0
269.90	89.0
270.40	133.0
271.10	135.0
271.90	109.0

272.10	154.0
273.00	2590.0
274.00	7546.0
275.00	37517.0
276.00	4783.0
277.00	3038.0
278.00	522.0
279.00	57.0
282.00	50.0
283.00	317.0
283.20	95.0
284.15	185.0
285.10	627.0
286.05	119.0
289.20	50.0
289.90	67.0
291.95	141.0
292.95	730.0
293.70	109.0
294.15	126.0
294.90	93.0
296.00	9943.0
297.00	1473.0
301.15	135.0
302.00	154.0
303.05	1261.0
303.75	174.0
303.95	241.0
307.80	89.0
308.10	66.0
309.80	73.0
310.10	90.0
311.00	51.0
314.05	553.0
315.00	1109.0
316.05	685.0
316.90	68.0
320.90	72.0
321.15	330.0
322.00	96.0
323.05	3532.0
324.00	624.0
326.90	496.0
328.05	374.0
331.95	330.0
333.05	350.0
334.00	1859.0
335.00	525.0
341.05	455.0
345.70	191.0
345.95	519.0
347.00	111.0
351.10	50.0
352.00	1172.0
352.95	744.0
354.00	1120.0
354.90	114.0
364.95	4306.0
365.85	687.0
369.95	118.0
370.40	50.0
371.00	228.0
371.20	117.0
372.00	1994.0
372.95	562.0
382.80	215.0
383.00	301.0
383.90	92.0
389.60	54.0
390.00	232.0
391.00	141.0
391.90	51.0
402.05	897.0
403.05	918.0
404.05	366.0
421.00	1062.0
422.00	293.0

423.00	8032.0
423.95	1475.0
424.60	154.0
424.90	80.0
426.70	51.0
428.00	65.0
428.20	59.0
429.30	108.0
429.80	52.0
430.20	56.0
430.70	54.0
431.10	56.0
431.45	197.0
432.50	60.0
432.75	193.0
433.50	110.0
433.90	89.0
434.30	163.0
434.70	168.0
435.00	229.0
435.95	357.0
436.50	121.0
436.70	76.0
437.45	275.0
438.35	149.0
438.60	76.0
439.10	183.0
441.10	14258.0
442.00	145042.0
443.00	29096.0
443.95	2705.0
445.05	180.0

File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07776.D
Operator : MIZ
Acquired : 8 Jun 2011 5:26 pm using AcqMethod WLDDFTP1
Instrument : DEL6
Sample Name: DFTPP
Misc Info : 6/8/2011
Vial Number: 1



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07782.D Vial: 7
Acq On : 8 Jun 2011 8:54 pm Operator: MIZ
Sample : METHOD BLANK Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 08:24:53 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.12	152	35342	20.00 ng/µl	-0.01
19) Naphthalene-d8	7.67	136	135653	20.00 ng/µl	-0.02
34) Acenaphthene-d10	10.59	164	78993	20.00 ng/µl	-0.02
56) Phenanthrene-d10	13.45	188	140737	20.00 ng/µl	-0.02
68) Chrysene-d12	18.86	240	153517	20.00 ng/µl	-0.02
76) Perylene-d12	22.07	264	140916	20.00 ng/µl	-0.03
System Monitoring Compounds					
2) 2-Fluorophenol	4.96	112	157049	49.37 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 65.83%		
4) Phenol-d5	5.72	99	235571	54.85 ng/µl	-0.01
Spiked Amount 75.000	Range 10 - 110		Recovery = 73.13%		
6) 2-Chlorophenol-d4	5.92	132	136389	47.99 ng/µl	-0.01
Spiked Amount 75.000	Range 33 - 110		Recovery = 63.99%		
11) 1,2-Dichlorobenzene-d4	6.32	152	73058	37.76 ng/µl	-0.01
Spiked Amount 50.000	Range 16 - 110		Recovery = 75.52%		
20) Nitrobenzene-d5	6.75	82	164442	38.50 ng/µl	-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 77.00%		
38) 2-Fluorobiphenyl	9.35	172	252844	38.97 ng/µl	-0.02
Spiked Amount 50.000	Range 43 - 116		Recovery = 77.94%		
55) 2,4,6-Tribromophenol	12.10	330	37361	41.94 ng/µl	-0.02
Spiked Amount 75.000	Range 10 - 123		Recovery = 55.92%		
70) Terphenyl-d14	16.70	244	279738	40.71 ng/µl	-0.02
Spiked Amount 50.000	Range 33 - 141		Recovery = 81.42%		

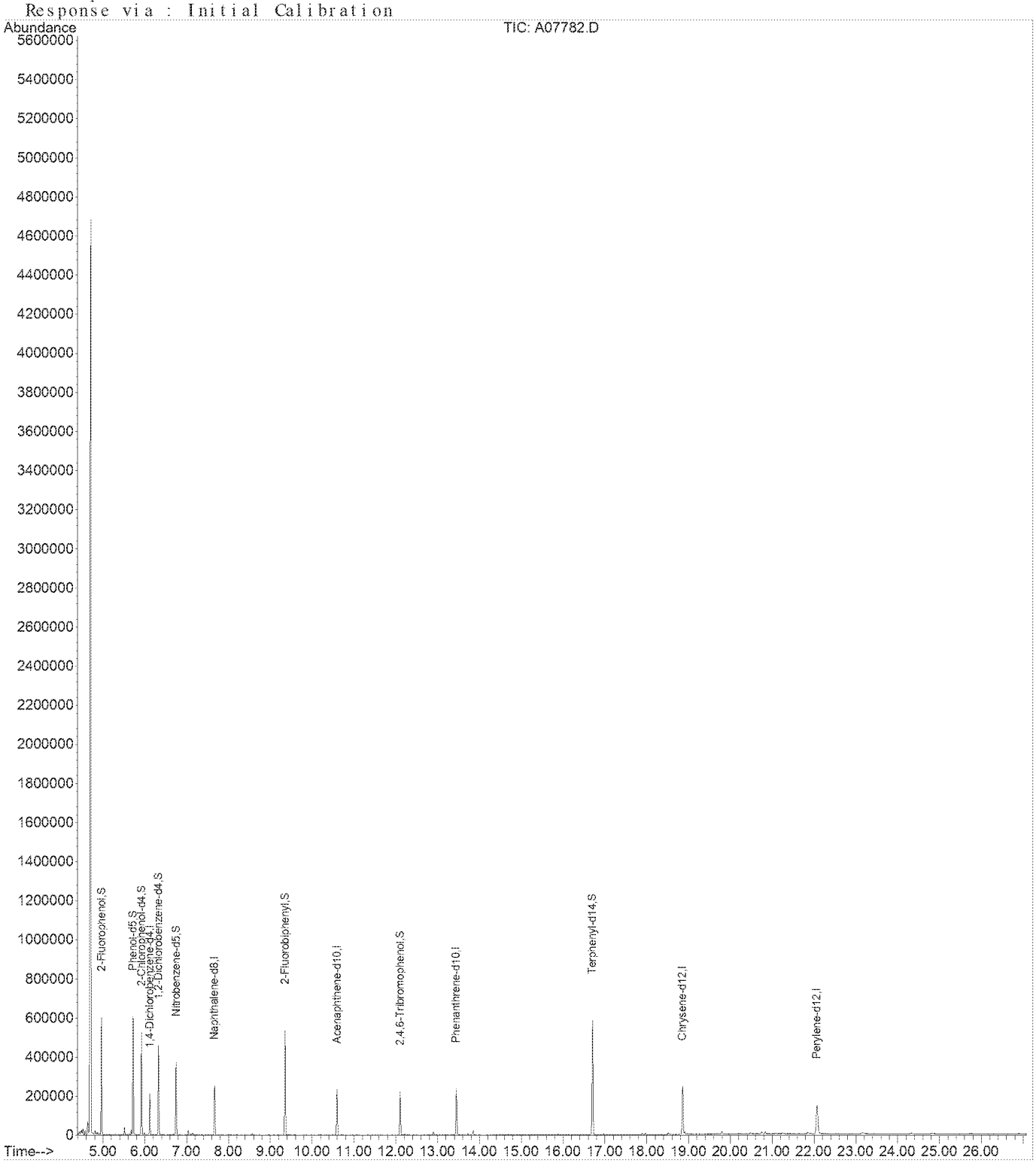
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07782.D Vial: 7
Acq On : 8 Jun 2011 8:54 pm Operator: MIZ
Sample : METHOD BLANK Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 9:25 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\MS60608L.MIZ\A07782.D Vial: 7
Acq On : 8 Jun 2011 8:54 pm Operator: MIZ
Sample : METHOD BLANK Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60609.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

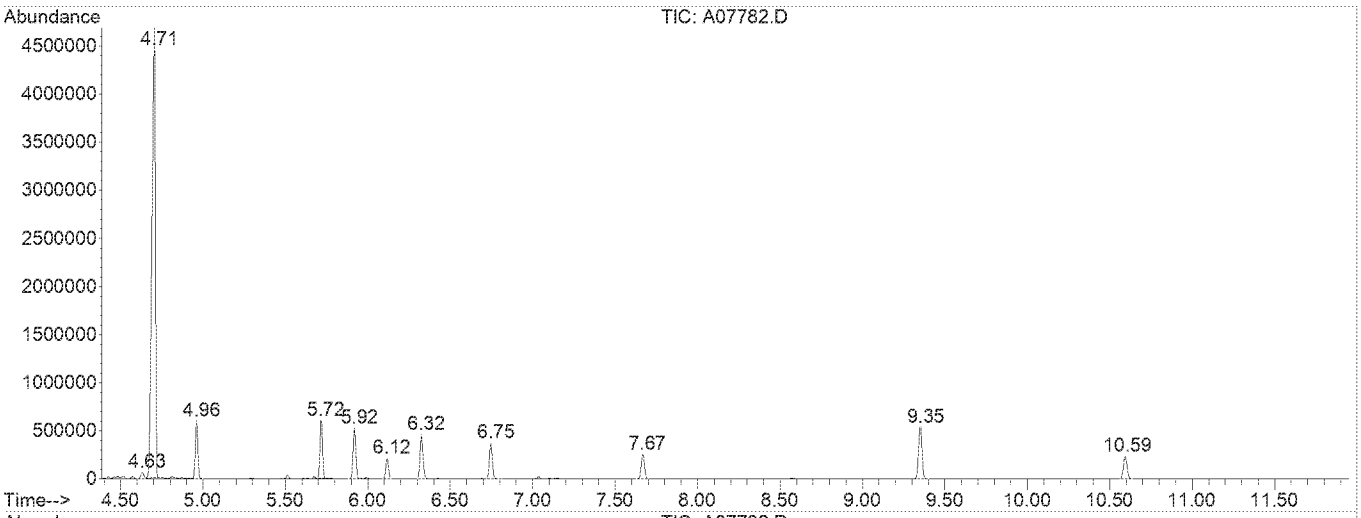
Signal : TIC

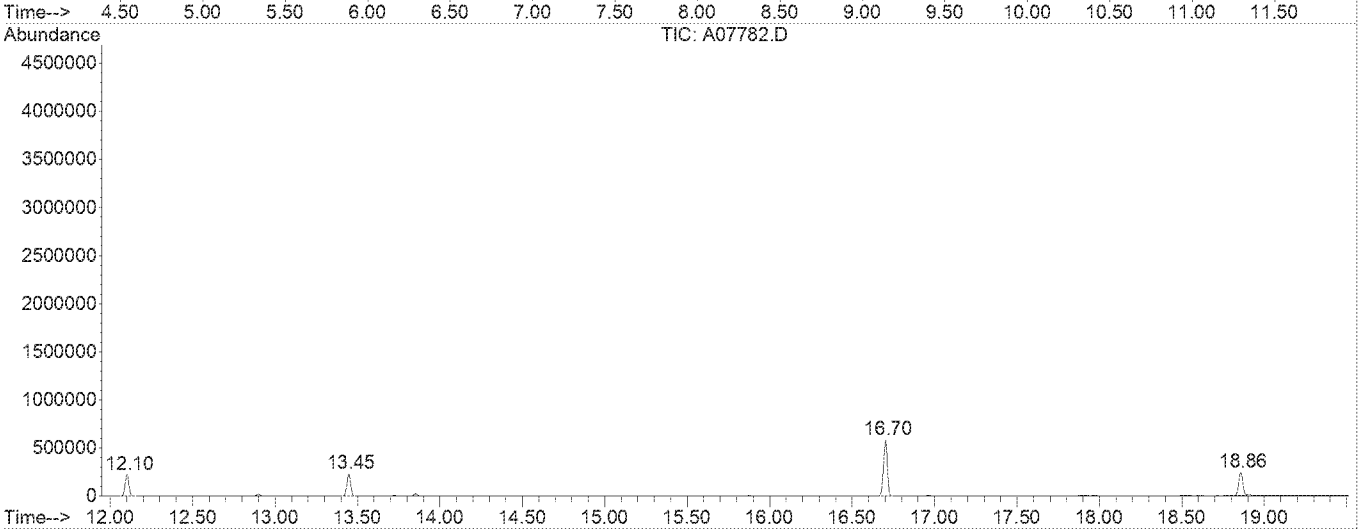
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.631	42	47	51	rBV	66477	88179	1.30%	0.624%
2	4.706	51	61	65	rVV	4671006	6805722	100.00%	48.143%
3	4.962	104	109	116	rVB	601285	622789	9.15%	4.406%
4	5.715	245	250	255	rBV	601752	675974	9.93%	4.782%
5	5.918	279	288	298	rBV	526007	625827	9.20%	4.427%
6	6.116	318	325	332	rBV	210782	249815	3.67%	1.767%
7	6.324	358	364	372	rBV2	457973	569380	8.37%	4.028%
8	6.746	436	443	455	rVB	371645	468165	6.88%	3.312%
9	7.665	606	615	624	rVB	251942	360264	5.29%	2.548%
10	9.353	923	931	940	rBV	535299	792674	11.65%	5.607%
11	10.593	1155	1163	1171	rVB	234127	368634	5.42%	2.608%
12	12.105	1438	1446	1456	rBV	223795	366806	5.39%	2.595%
13	13.446	1689	1697	1707	rBV	235915	376085	5.53%	2.660%
14	16.704	2298	2307	2315	rBV	585650	940440	13.82%	6.653%
15	18.857	2700	2710	2717	rBV	244040	435232	6.40%	3.079%
16	22.068	3301	3311	3330	rBV2	145737	390614	5.74%	2.763%

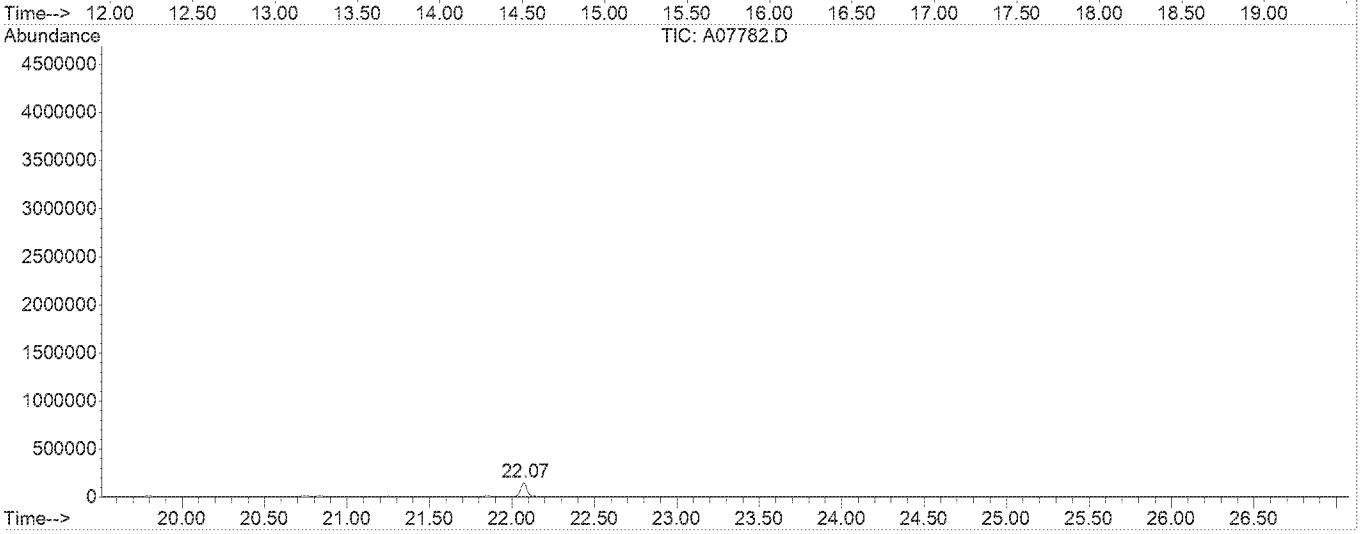
Sum of corrected areas: 14136600

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07782.D
Operator : MIZ
Acquired : 8 Jun 2011 8:54 pm using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: METHOD BLANK
Msc Info : 1
Vial Number: 7
Quant File : I60609.RES (RTE Integrator)







Library Search Compound Report

Data File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07782.D Vial: 7
Acq On : 8 Jun 2011 8:54 pm Operator: MIZ
Sample : METHOD BLANK Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

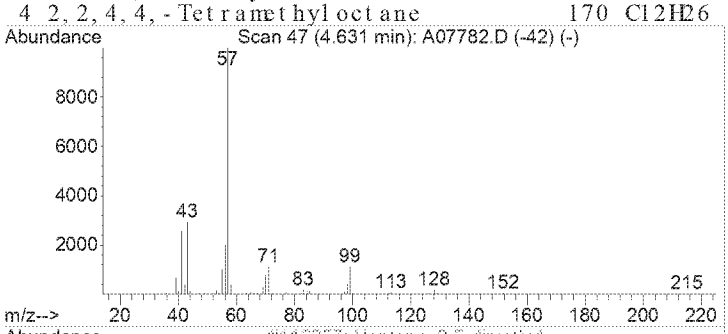
Quant Method : C:\MSDCHEM 1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Library : C:\DATABASE\NIST98.L

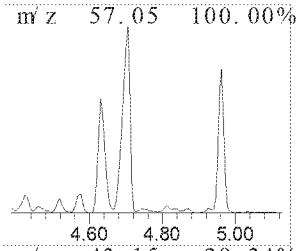
****

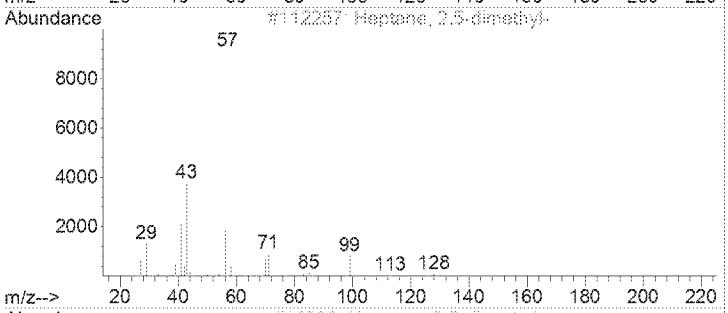
Peak Number 1 Heptane, 2,5-dimethyl- Concentration Rank 2

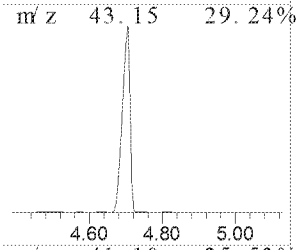
R.T.	Est Conc	Area	Relative to ISTD	R.T.
4.63	7.06 ng/µl	88179	1,4-Dichlorobenzene-d4	6.12

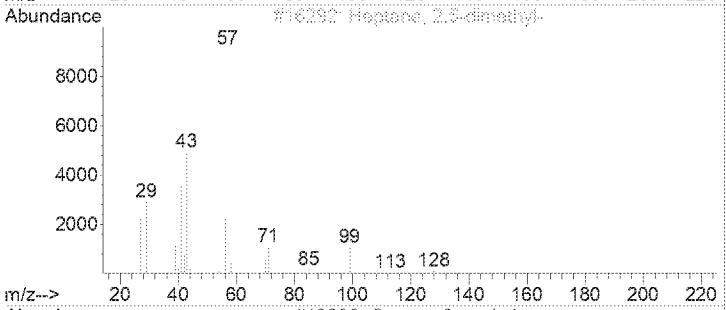
Hit# of 5	Tentative ID	MW	Mol Form	CAS#	Qual
1	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	87
2	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	86
3	Octane, 3-methyl-	128	C9H20	002216-33-3	80
4	2,2,4,4,-Tetramethyloctane	170	C12H26	062183-79-3	64

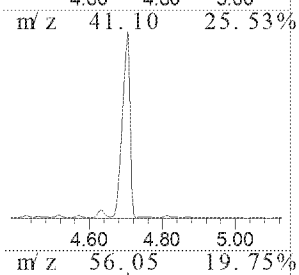


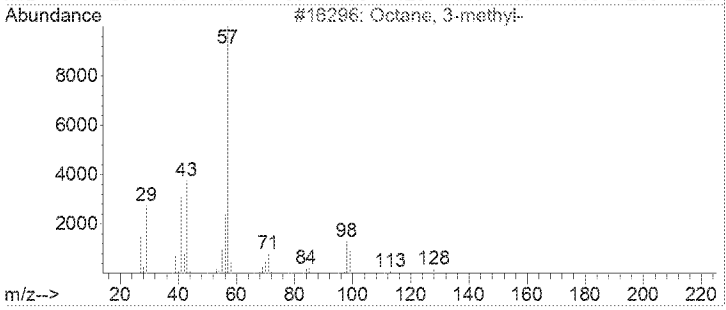


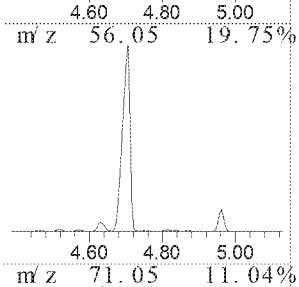


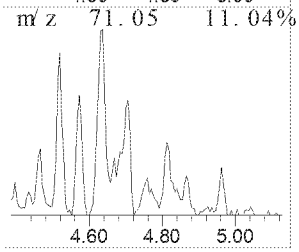












Library Search Compound Report

Data File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07782.D Vial: 7
Acq On : 8 Jun 2011 8:54 pm Operator: MIZ
Sample : METHOD BLANK Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

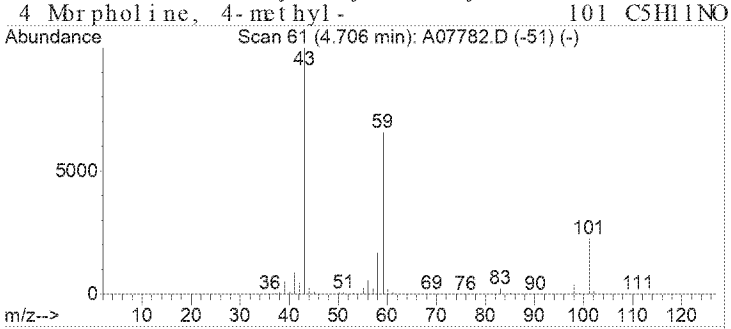
Quant Method : C:\MSDCHEM 1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Library : C:\DATABASE\NIST98.L

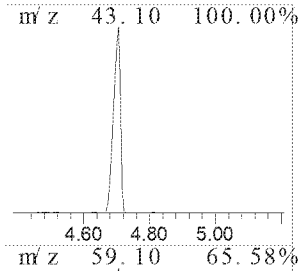
****

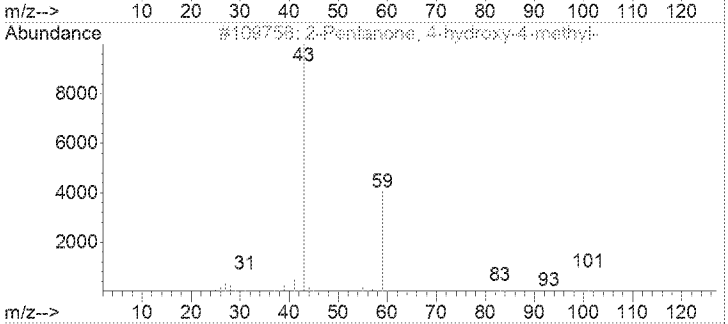
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

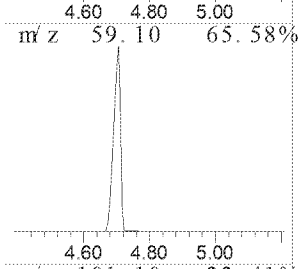
R.T.	EstConc	Area	Relative to ISTD	R.T.
4.71	544.86 ng/µl	6805720	1,4-Dichlorobenzene-d4	6.12

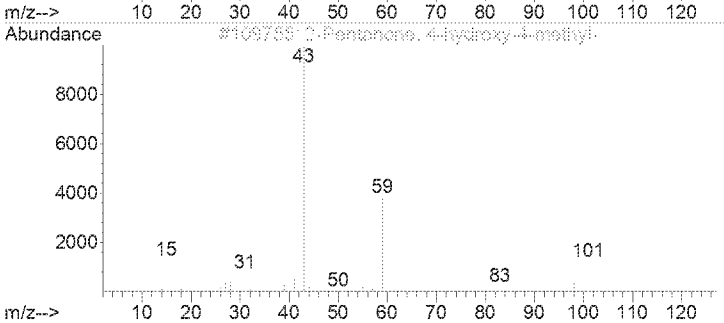
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	38
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9

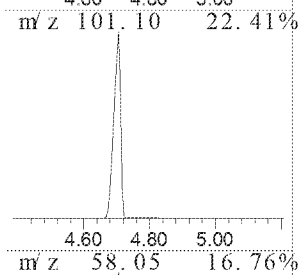


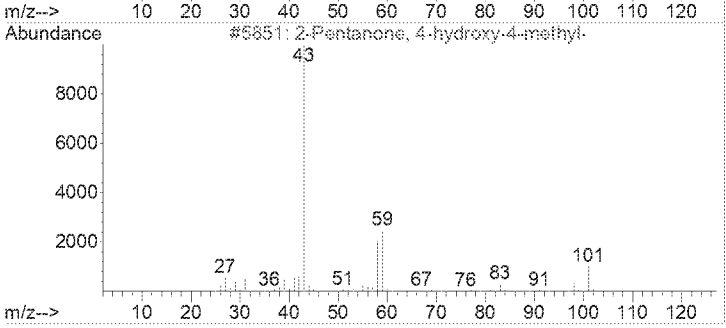


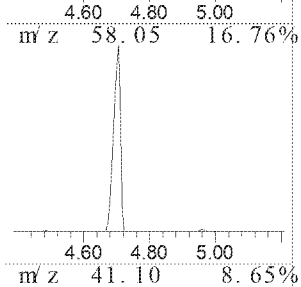


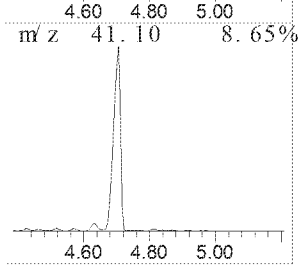












Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 8 Jun 2011 8:54 pm
Data File: C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07782.D
Name: METHOD BLANK
Misc: 1
Method: C:\MSDCHEM 1\METHODS\I60609.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	Est Conc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Heptane, 2,5-dime...	4.63	7.1	ng/µl	88179	1	6.12	249815	20.0
2-Pentanone, 4-hy...	4.71	544.9	ng/µl	6805720	1	6.12	249815	20.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07783.D Vial: 8
Acq On : 8 Jun 2011 9:31 pm Operator: MIZ
Sample : METHOD BLANK 2 Inst : DEL6
Misc : 1 SOIL Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 08:24:54 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.13	152	27633	20.00	ng/µl	0.00
19) Naphthalene-d8	7.69	136	103433	20.00	ng/µl	0.00
34) Acenaphthene-d10	10.61	164	58677	20.00	ng/µl	0.00
56) Phenanthrene-d10	13.47	188	106484	20.00	ng/µl	0.00
68) Chrysene-d12	18.88	240	116468	20.00	ng/µl	0.00
76) Perylene-d12	22.11	264	105499	20.00	ng/µl	0.01

System Monitoring Compounds

2) 2-Fluorophenol	4.97	112	195804	78.73	ng/µl	0.01
Spiked Amount 75.000	Range 25 - 121		Recovery = 104.97%			
4) Phenol-d5	5.73	99	244830	72.90	ng/µl	0.00
Spiked Amount 75.000	Range 24 - 113		Recovery = 97.20%			
6) 2-Chlorophenol-d4	5.93	132	179834	80.93	ng/µl	0.00
Spiked Amount 75.000	Range 20 - 130		Recovery = 107.91%			
11) 1,2-Dichlorobenzene-d4	6.34	152	84491	55.85	ng/µl	0.00
Spiked Amount 50.000	Range 20 - 130		Recovery = 111.70%			
20) Nitrobenzene-d5	6.76	82	209302	64.27	ng/µl	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 128.54%#			
38) 2-Fluorobiphenyl	9.37	172	338753	70.29	ng/µl	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 140.58%#			
55) 2,4,6-Tribromophenol	12.12	330	35692	53.93	ng/µl	0.00
Spiked Amount 75.000	Range 19 - 122		Recovery = 71.91%			
70) Terphenyl-d14	16.72	244	214325	41.12	ng/µl	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 82.24%			

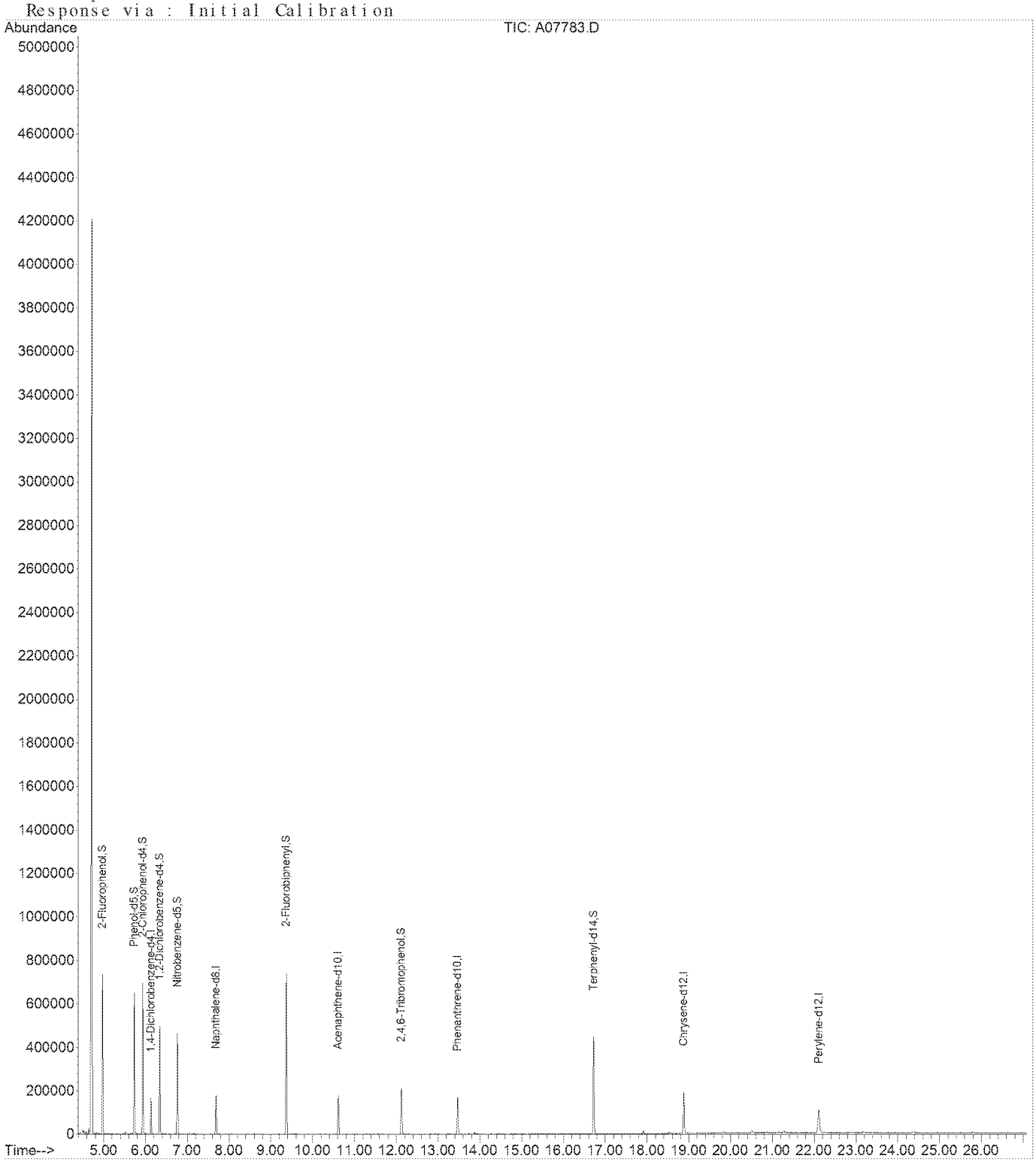
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07783.D Vial: 8
Acq On : 8 Jun 2011 9:31 pm Operator: MIZ
Sample : METHOD BLANK 2 Inst : DEL6
Msc : 1 SOIL Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 9:26 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\MS60608L.MIZ\A07783.D Vial: 8
Acq On : 8 Jun 2011 9:31 pm Operator: MIZ
Sample : METHOD BLANK 2 Inst : DEL6
Misc : 1 SOIL Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60609.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

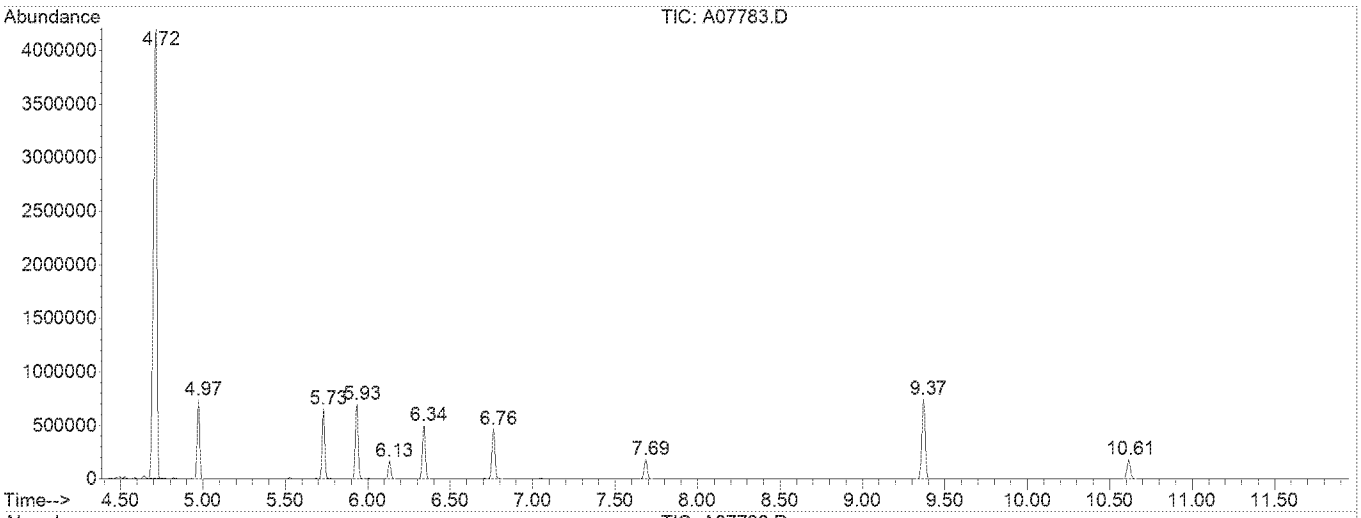
Signal : TIC

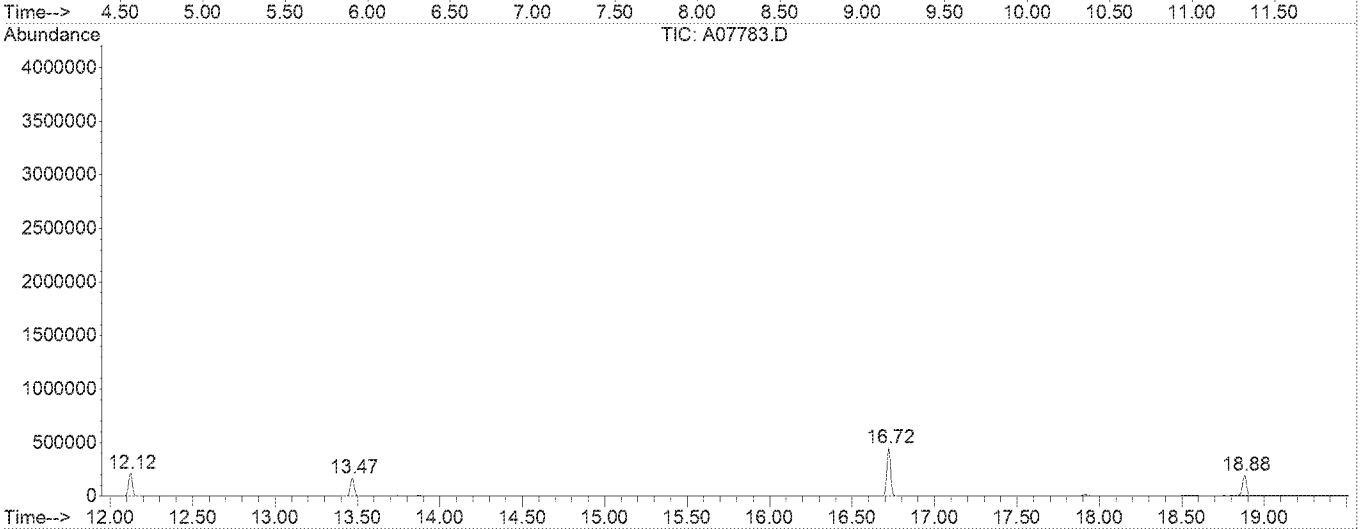
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.716	54	63	67	rBV	4201059	6169267	100.00%	45.890%
2	4.973	105	111	119	rBV	732537	779077	12.63%	5.795%
3	5.731	247	253	258	rBV	648127	704128	11.41%	5.238%
4	5.934	285	291	299	rBV	693572	828638	13.43%	6.164%
5	6.132	322	328	334	rVB	164794	191086	3.10%	1.421%
6	6.340	360	367	374	rBV	497859	615944	9.98%	4.582%
7	6.762	439	446	456	rVB	463712	592920	9.61%	4.410%
8	7.687	613	619	626	rVB	179883	251059	4.07%	1.868%
9	9.369	926	934	942	rBV	741878	1065591	17.27%	7.926%
10	10.614	1159	1167	1176	rVB	177639	269433	4.37%	2.004%
11	12.121	1442	1449	1462	rVB2	210585	345529	5.60%	2.570%
12	13.467	1691	1701	1711	rBV	170223	286326	4.64%	2.130%
13	16.720	2303	2310	2321	rBV2	446416	718180	11.64%	5.342%
14	18.879	2707	2714	2722	rBV	188662	325393	5.27%	2.420%
15	22.111	3307	3319	3336	rBV2	105272	300968	4.88%	2.239%

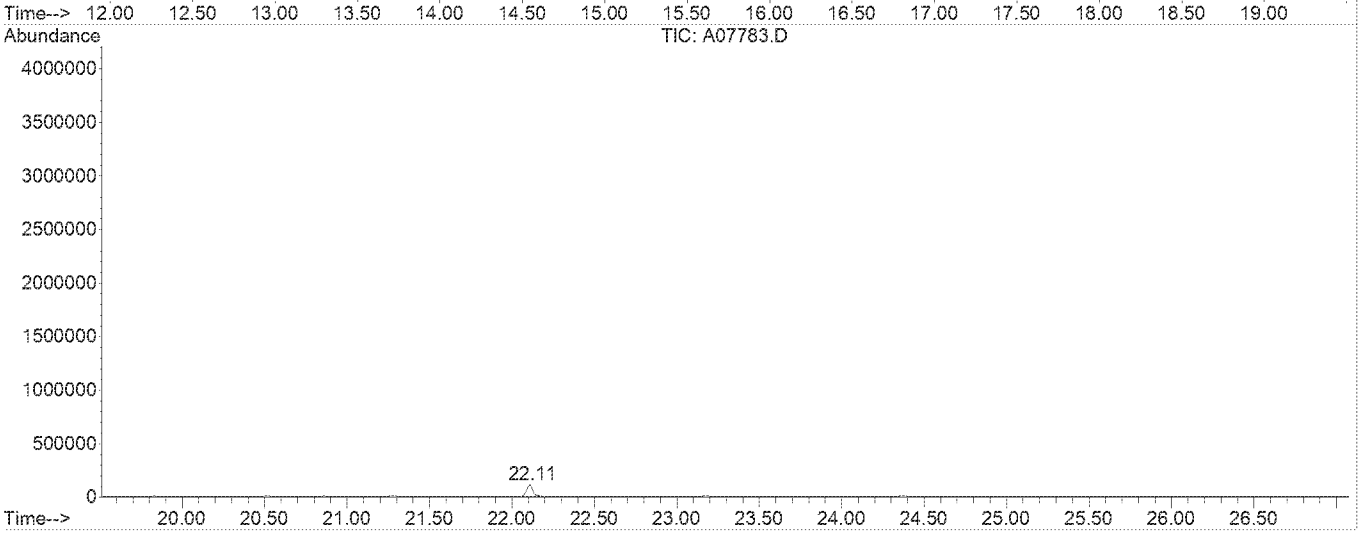
Sum of corrected areas: 13443539

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07783.D
Operator : MIZ
Acquired : 8 Jun 2011 9:31 pm using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: METHOD BLANK 2
Misc Info : 1 SOIL
Vial Number: 8
Quant File : I60609.RES (RTE Integrator)







Library Search Compound Report

Data File : C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07783.D Vial: 8
Acq On : 8 Jun 2011 9:31 pm Operator: MIZ
Sample : METHOD BLANK 2 Inst : DEL6
Misc : 1 SOIL Multiplr: 1.00
MS Integration Params: LSCINT.P

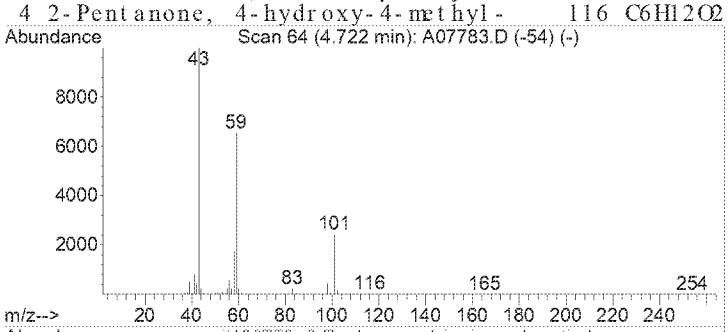
Quant Method : C:\MSDCHEM 1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Library : C:\DATABASE\NIST98.L

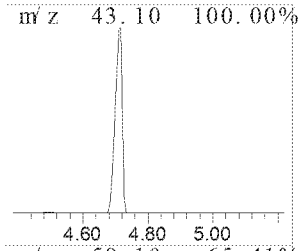
****

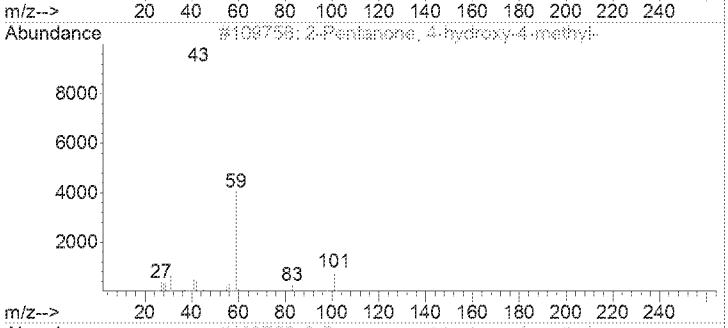
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

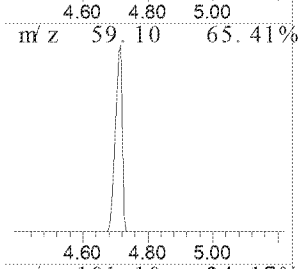
R.T.	Est Conc	Area	Relative to ISTD	R.T.
4.72	645.71 ng/µl	6169270	1,4-Dichlorobenzene-d4	6.13

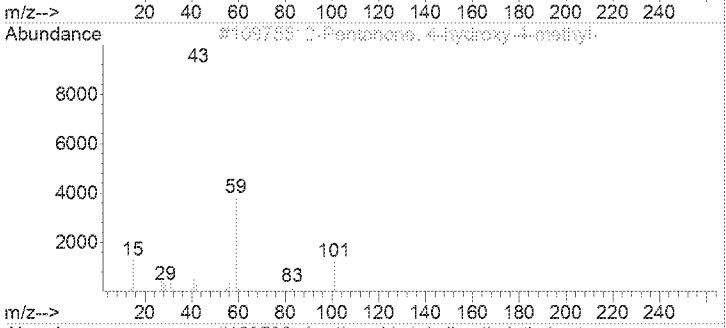
Hit# of 5	Tentative ID	MW	Mol Form	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	33
4	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	23

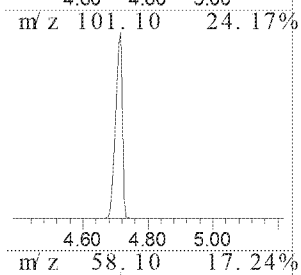


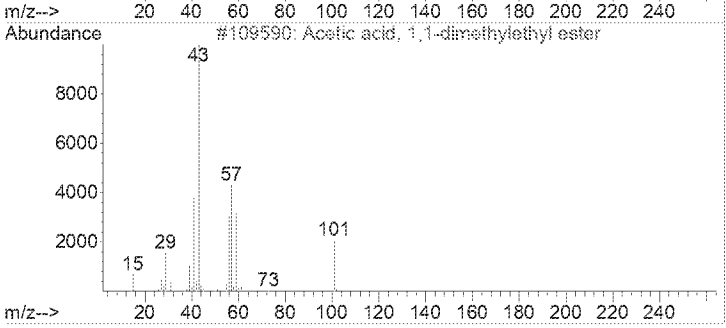


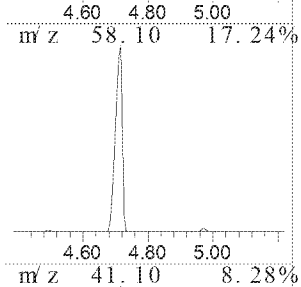


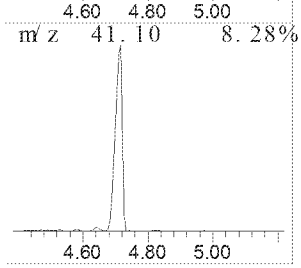












Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 8 Jun 2011 9:31 pm
Data File: C:\MSDCHEM 1\DATA\MS60608L.MIZ\A07783.D
Name: METHOD BLANK 2
Misc: 1 SOIL
Method: C:\MSDCHEM 1\METHODS\I60609.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	Est Conc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
2-Pentanone, 4-hy...	4.72	645.7	ng/µl	6169270	1	6.13	191086	20.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07784.D Vial: 9
Acq On : 8 Jun 2011 10:08 pm Operator: MIZ
Sample : LCS-S Inst : DEL6
Misc : 1 SOIL Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 08:24:58 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.12	152	29381	20.00 ng/µl	-0.01
19) Naphthalene-d8	7.67	136	112352	20.00 ng/µl	-0.02
34) Acenaphthene-d10	10.59	164	67217	20.00 ng/µl	-0.02
56) Phenanthrene-d10	13.45	188	138380	20.00 ng/µl	-0.02
68) Chrysene-d12	18.86	240	144286	20.00 ng/µl	-0.02
76) Perylene-d12	22.07	264	120977	20.00 ng/µl	-0.03
System Monitoring Compounds					
2) 2-Fluorophenol	4.96	112	154421	58.40 ng/µl	0.00
Spiked Amount 75.000	Range 25 - 121		Recovery = 77.87%		
4) Phenol-d5	5.72	99	216619	60.67 ng/µl	0.00
Spiked Amount 75.000	Range 24 - 113		Recovery = 80.89%		
6) 2-Chlorophenol-d4	5.92	132	135284	57.26 ng/µl	-0.01
Spiked Amount 75.000	Range 20 - 130		Recovery = 76.35%		
11) 1,2-Dichlorobenzene-d4	6.32	152	75117	46.70 ng/µl	-0.01
Spiked Amount 50.000	Range 20 - 130		Recovery = 93.40%		
20) Nitrobenzene-d5	6.75	82	162358	45.89 ng/µl	-0.01
Spiked Amount 50.000	Range 23 - 120		Recovery = 91.78%		
38) 2-Fluorobiphenyl	9.35	172	254061	46.02 ng/µl	-0.02
Spiked Amount 50.000	Range 30 - 115		Recovery = 92.04%		
55) 2,4,6-Tribromophenol	12.10	330	41877	55.24 ng/µl	-0.02
Spiked Amount 75.000	Range 19 - 122		Recovery = 73.65%		
70) Terphenyl-d14	16.70	244	271553	42.05 ng/µl	-0.02
Spiked Amount 50.000	Range 18 - 137		Recovery = 84.10%		

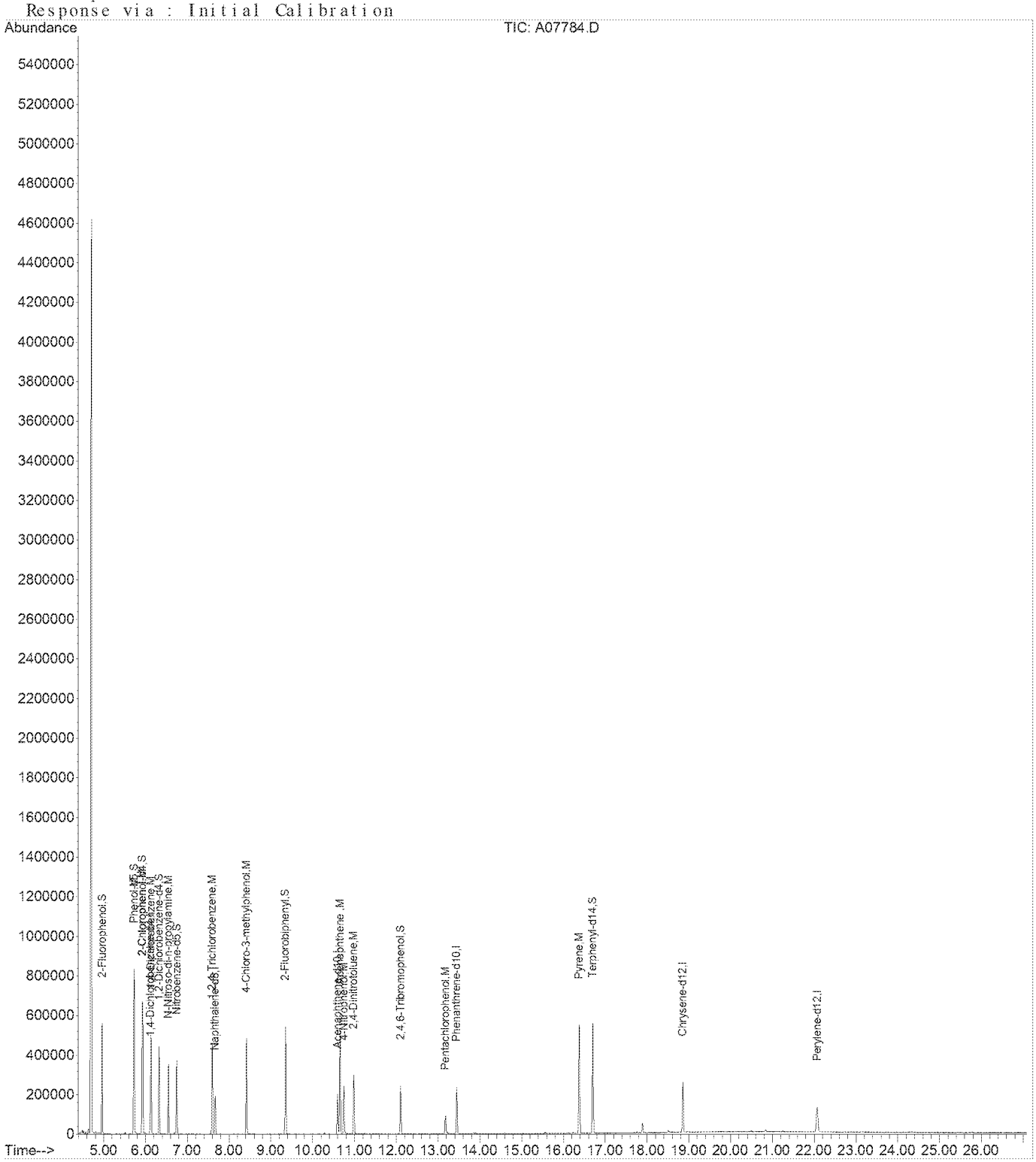
Target Compounds					Qvalue
5) Phenol	5.73	94	223996	60.90 ng/µl	93
7) 2-Chlorophenol	5.93	128	142456	60.51 ng/µl	88
10) 1,4-Dichlorobenzene	6.13	146	120008	46.55 ng/µl	92
18) N-Nitroso-di-n-propylamine	6.55	70	103057	42.24 ng/µl	84
27) 1,2,4-Trichlorobenzene	7.60	180	109990	52.87 ng/µl	96
32) 4-Chloro-3-methylphenol	8.41	107	143465	57.69 ng/µl	88
46) Acenaphthene	10.65	153	201990	46.96 ng/µl	97
49) 4-Nitrophenol	10.75	109	46378	47.29 ng/µl	74
50) 2,4-Dinitrotoluene	10.98	165	69876	42.21 ng/µl	84
62) Pentachlorophenol	13.18	266	18737m	17.55 ng/µl	
69) Pyrene	16.38	202	389511	43.59 ng/µl	89

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07784.D Vial: 9
Acq On : 8 Jun 2011 10:08 pm Operator: MIZ
Sample : LCS-S Inst : DEL6
Msc : 1 SOIL Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 9:28 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07786.D Vial: 11
Acq On : 8 Jun 2011 11:21 pm Operator: MIZ
Sample : MS-S Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 08:25:07 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.12	152	40298	20.00 ng/µl	-0.01
19) Naphthalene-d8	7.67	136	163237	20.00 ng/µl	-0.02
34) Acenaphthene-d10	10.59	164	94363	20.00 ng/µl	-0.02
56) Phenanthrene-d10	13.45	188	172967	20.00 ng/µl	-0.02
68) Chrysene-d12	18.86	240	195795	20.00 ng/µl	-0.02
76) Perylene-d12	22.07	264	177837	20.00 ng/µl	-0.03
System Monitoring Compounds					
2) 2-Fluorophenol	4.97	112	215035	59.29 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 79.05%		
4) Phenol-d5	5.72	99	304066	62.09 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 82.79%		
6) 2-Chlorophenol-d4	5.92	132	183237	56.55 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 75.40%		
11) 1,2-Dichlorobenzene-d4	6.32	152	87613	39.72 ng/µl	-0.01
Spiked Amount 50.000	Range 16 - 110		Recovery = 79.44%		
20) Nitrobenzene-d5	6.75	82	209970	40.85 ng/µl	-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 81.70%		
38) 2-Fluorobiphenyl	9.35	172	314553	40.58 ng/µl	-0.02
Spiked Amount 50.000	Range 43 - 116		Recovery = 81.16%		
55) 2,4,6-Tribromophenol	12.10	330	61300	57.60 ng/µl	-0.02
Spiked Amount 75.000	Range 10 - 123		Recovery = 76.80%		
70) Terphenyl-d14	16.70	244	373737	42.65 ng/µl	-0.02
Spiked Amount 50.000	Range 33 - 141		Recovery = 85.30%		

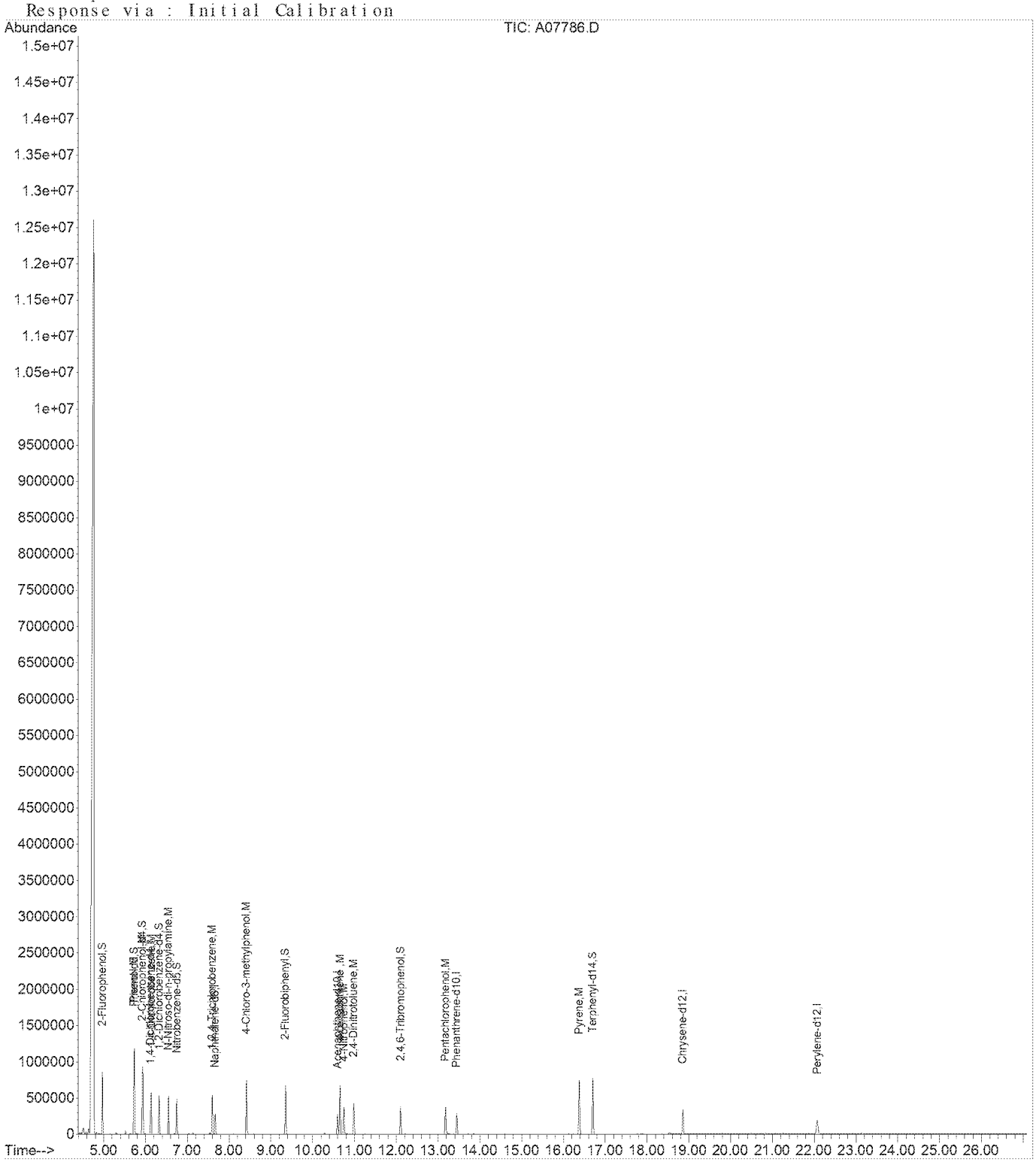
Target Compounds					Qvalue
5) Phenol	5.74	94	319159	63.27 ng/µl	94
7) 2-Chlorophenol	5.93	128	195844	60.65 ng/µl	85
10) 1,4-Dichlorobenzene	6.14	146	142731	40.37 ng/µl	96
18) N-Nitroso-di-n-propylamine	6.55	70	144947	43.32 ng/µl	84
27) 1,2,4-Trichlorobenzene	7.60	180	125582	41.55 ng/µl	96
32) 4-Chloro-3-methylphenol	8.41	107	225137	62.31 ng/µl	90
46) Acenaphthene	10.66	153	254603	42.16 ng/µl	100
49) 4-Nitrophenol	10.75	109	72249	52.48 ng/µl	71
50) 2,4-Dinitrotoluene	10.98	165	97838	42.10 ng/µl	81
62) Pentachlorophenol	13.18	266	70492	52.82 ng/µl	95
69) Pyrene	16.38	202	545660	45.00 ng/µl	91

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07786.D Vial: 11
Acq On : 8 Jun 2011 11:21 pm Operator: MIZ
Sample : MS-S Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 9:30 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07787.D Vial: 12
Acq On : 8 Jun 2011 11:57 pm Operator: MIZ
Sample : MSD-S Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 09 08:25:11 2011 Quant Results File: I60609.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.12	152	39789	20.00 ng/µl	-0.01
19) Naphthalene-d8	7.67	136	156254	20.00 ng/µl	-0.02
34) Acenaphthene-d10	10.59	164	90228	20.00 ng/µl	-0.02
56) Phenanthrene-d10	13.45	188	166502	20.00 ng/µl	-0.02
68) Chrysene-d12	18.85	240	176169	20.00 ng/µl	-0.03
76) Perylene-d12	22.07	264	168310	20.00 ng/µl	-0.03
System Monitoring Compounds					
2) 2-Fluorophenol	4.96	112	224746	62.76 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 83.68%		
4) Phenol-d5	5.72	99	292964	60.59 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 80.79%		
6) 2-Chlorophenol-d4	5.92	132	202796	63.38 ng/µl	-0.01
Spiked Amount 75.000	Range 33 - 110		Recovery = 84.51%		
11) 1,2-Dichlorobenzene-d4	6.32	152	119324	54.78 ng/µl	-0.01
Spiked Amount 50.000	Range 16 - 110		Recovery = 109.56%		
20) Nitrobenzene-d5	6.75	82	293042	59.56 ng/µl	-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 119.12%#		
38) 2-Fluorobiphenyl	9.35	172	502355	67.79 ng/µl	-0.02
Spiked Amount 50.000	Range 43 - 116		Recovery = 135.58%#		
55) 2,4,6-Tribromophenol	12.10	330	56393	55.42 ng/µl	-0.02
Spiked Amount 75.000	Range 10 - 123		Recovery = 73.89%		
70) Terphenyl-d14	16.70	244	310116	39.33 ng/µl	-0.02
Spiked Amount 50.000	Range 33 - 141		Recovery = 78.66%		

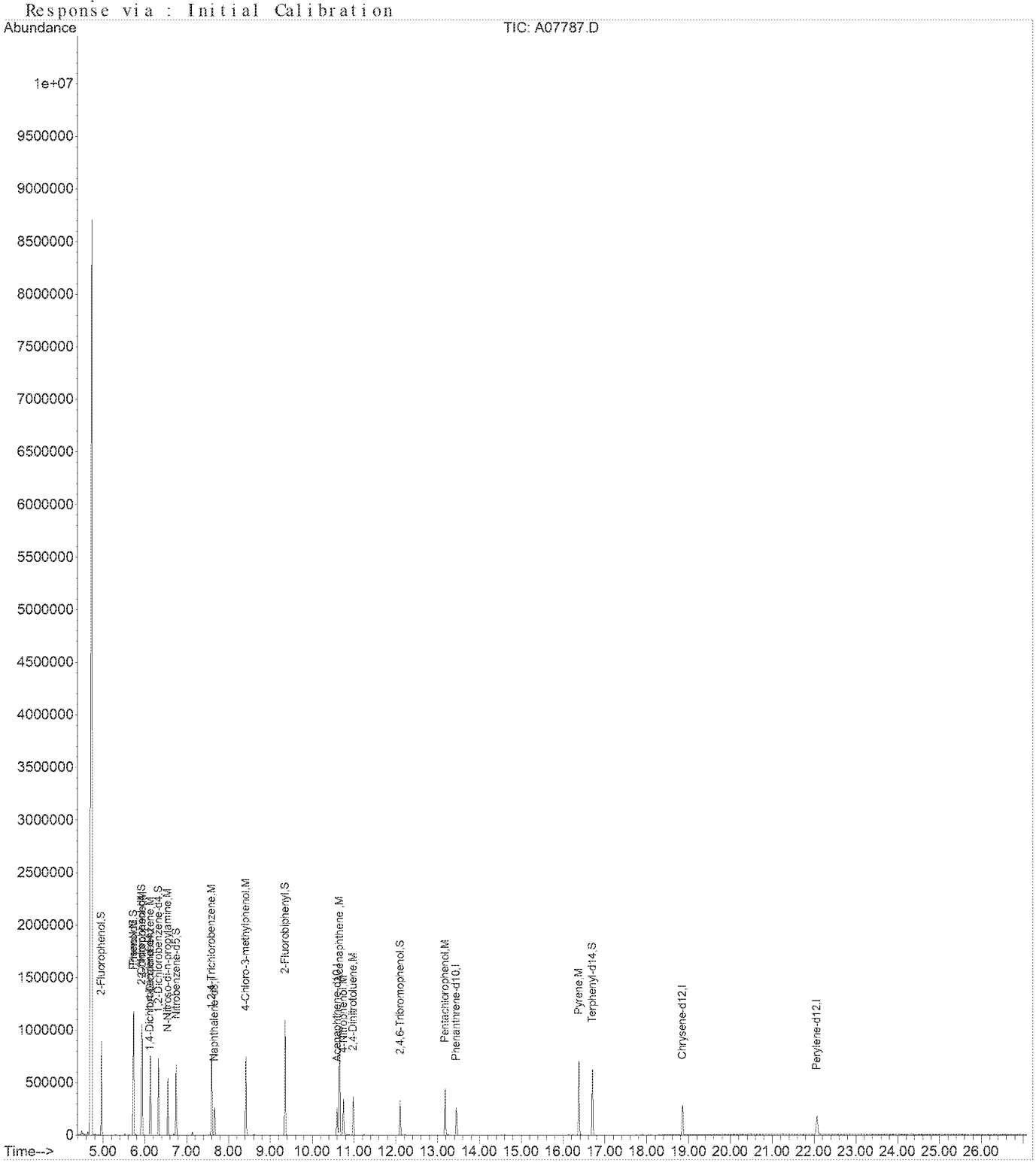
Target Compounds					Qvalue
5) Phenol	5.73	94	323688	64.99 ng/µl	92
7) 2-Chlorophenol	5.93	128	223903	70.23 ng/µl	87
10) 1,4-Dichlorobenzene	6.14	146	190078	54.45 ng/µl	92
18) N-Nitroso-di-n-propylamine	6.55	70	152620	46.19 ng/µl	85
27) 1,2,4-Trichlorobenzene	7.60	180	179934	62.19 ng/µl	89
32) 4-Chloro-3-methylphenol	8.41	107	230670	66.70 ng/µl	88
46) Acenaphthene	10.66	153	385488	66.76 ng/µl	98
49) 4-Nitrophenol	10.75	109	67386	51.19 ng/µl	74
50) 2,4-Dinitrotoluene	10.98	165	87877	39.54 ng/µl	83
62) Pentachlorophenol	13.18	266	77683	60.47 ng/µl	96
69) Pyrene	16.38	202	477247	43.74 ng/µl	91

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60608L.MIZ\A07787.D Vial: 12
Acq On : 8 Jun 2011 11:57 pm Operator: MIZ
Sample : MSD-S Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 9 9:32 2011 Quant Results File: I60609.RES

Method : C:\MSDCHEM\1\METHODS\I60609.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Thu Jun 09 08:23:53 2011
Response via : Initial Calibration



Environmental Laboratory Section - Division of Water
Department of Natural Resources and Environmental Control
89 Kings Highway, Dover, DE 19901 (302) 739-9942

FIELD CHAIN OF CUSTODY

(Complete in BLUE ink)

Page 1 of 23

Client : Robert M. Schulte
Address : DNREC - Division of Air & Waste Management
391 Lukens Drive, New Castle, DE 19720
Phone No.: (302) 395-2600

Report To : Robert M. Schulte
Invoice To : Robert M. Schulte
Account :
ELS Order ID : 1105054

PROJECT NAME: DE-0344 (Procino Plating)

SAMPLERS (Please Print): PRICE / STANLEY

(ELS Use Only) Lab Log No.	Client Sample Description	Sample Date	Sample Time	Matrix	Comp	Grab	No. Of Containers	VOA	SVOA	Metals (total & diss)					REMARKS
1105054-001	Trip Blank	4/27/11	1200	SO		✓	1	✓			ANALYZE				
	PP-MW03-S	5-24-11	0918	SOIL	X		2	X	X	X					
1105054-002	PP-MW03D		0935								ANALYZE				
	PP-SB03S		1040												
	PP-SB03D		1045												
	PP-MW02S		1100												
	PP-MW02D		1105												
	PP-SB02S		1215												
	PP-SB02D		1220												
1105054-003	PP-SB01S		1250								ANALYZE				

RELINQUISHED BY: (signature)	DATE	TIME	RECEIVED BY: (signature)
[signature]	5/31/11	1410	[signature]

DW - drinking water, ER - equip. rinsate, GW - ground water, Lab - lab water, LW - liquid waste, SE - sediment, SL - sludge, SO - soil, SW - surface water, TI - tissue, WS - solid waste, WW - waste water

COMMENTS: — = DO NOT ANALYZE! SAMPLES NOT IN COOLER.

Is laboratory chain-of-custody required? Yes / No

ELS USE ONLY
Sample Conditions (circle response):
1. Samples match COC? Yes/No 2. Bottles supplied by ELS? Yes/No 3. Samples received broken/leaking? Yes/No 4. Cooler temp bottle 2-6 degrees? Yes/No/NA
5. Properly preserved? Yes/No 6. VOA/DO containers free of headspace? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No

Coc [illegible]

Environmental Laboratory Section - Division of Water
Department of Natural Resources and Environmental Control
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FIELD CHAIN OF CUSTODY

(Complete in BLUE ink)

Page 2 of 3

Client : Robert M. Schulte
Address : DNREC - Division of Air & Waste Management
391 Lukens Drive, New Castle, DE 19720
Phone No.: (302) 395-2600

Report To : Robert M. Schulte
Invoice To : Robert M. Schulte
Account :
ELS Order ID :

PROJECT NAME: DE-0344 (Procino Plating)

SAMPLERS (Please Print)

(ELS Use Only) Lab Log No.	Client Sample Description	Sample Date	Sample Time	Matrix*	Comp	Grab	No. Of Containers	VOA	SVOA	Metals (total & diss)						REMARKS
	PP-MW01S	5-25-11	0917	SOIL	X		2	X	X	X						
	PP-MW04D		0922													
1105054-004	PP-SB05S		1009								DO NOT ANALYZE					
	PP-SB05D		1042													
	PP-MW05S		1107													
	PP-MW05D		1109													
	PP-SB06S		1330													
	PP-SB06D		1336													
	PP-MW06S		0925													
1105054-005	PP-MW06D		1331								DO NOT ANALYZE					

RELINQUISHED BY: (signature)	DATE	TIME	RECEIVED BY: (signature)
[signature]	5/31/11	1410	[signature]

DW - drinking water, ER - equip. rinsate, GW - ground water, Lab - lab water, LW - liquid waste, Sd - sediment, SL - sludge, SO - soil, SW - surface water, TI - tissue, WS - solid waste, WW - waste water

COMMENTS: ____ = DO NOT ANALYZE. SAMPLES NOT INCLUDED IN COOLER

Is laboratory chain-of-custody required? Yes / No

ELS USE ONLY
Sample Conditions (circle response):
1. Samples match COC? Yes/No 2. Bottles supplied by ELS? Yes/No 3. Samples received broken/leaking? Yes/No 4. Cooler temp bottle 2-6 degrees? Yes/No/NA
5. Properly preserved? Yes/No 6. VOA/DO containers free of headspace? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No

Coc 093101

Environmental Laboratory Section - Division of Water
Department of Natural Resources and Environmental Control
89 Kings Highway, Dover, DE 19901 (302) 739-9942

FIELD CHAIN OF CUSTODY

(Complete in BLUE ink)

Page 3 of 3

Client : Robert M. Schulte
Address : DNREC - Division of Air & Waste Management
391 Lukens Drive, New Castle, DE 19720
Phone No.: (302) 395-2600

Report To : Robert M. Schulte
Invoice To : Robert M. Schulte
Account :
ELS Order ID :

PROJECT NAME: DE-0344 (Procino Plating)

SAMPLERS (Please Print): PRICE/STANLEY

(ELS Use Only) Lab Log No.	Client Sample Description	Sample Date	Sample Time	Matrix	Comp	Grab	No. Of Containers	VOA	SVOA	Metals (total & diss)						REMARKS
	PP-SB075	5-26-11	0912	SOIL	X		2	X	X	X						
	PP-SB07D	↓	0900	↓	↓		↓	↓	↓	↓						
	PP-SB095		0942													
1105054-006	PP-SB09D		0940								ANALYZE					
	PP-SB10D	↓	0934	↓	↓		↓	↓	↓	↓						

RELINQUISHED BY: (signature)	DATE	TIME	RECEIVED BY: (signature)
[signature]	5/31/11	1410	[signature]

DW - drinking water
ER - equip. rinsate
GW - ground water
Lab - lab water
LW - liquid waste
SE - sediment
SL - sludge
SO - soil
SW - surface water
TI - tissue
WS - solid waste
WW - waste water

COMMENTS: — = DO NOT ANALYZE: SAMPLES NOT IN COOLER.

Is laboratory chain-of-custody required? Yes/No

ELS USE ONLY
Sample Conditions (circle response):
1. Samples match COC? Yes/No 2. Bottles supplied by ELS? Yes/No 3. Samples received broken/leaking? Yes/No 4. Cooler temp bottle 2-6 degrees? Yes/No/NA
5. Properly preserved? Yes/No 6. VOA/DO containers free of headspace? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No

Cas E40101

Environmental Laboratory Section – Division of Water Resources
Delaware Department of Natural Resources and Environmental Control
89 Kings Highway, Dover, DE 11901 (302) 739-9942

LABORATORY CHAIN OF CUSTODY

Project: DE-0344 **Order #:** 1105054

Analysis Requested: SVOA, metals **Container(type/size):** 8oz jar

Sample Number	pH	Sample Number	pH
1105054-002			
1105054-003			
1105054-004			
1105054-005			
1105054-006			

te/time 5/31/11 1410 Sample Custodian Renee L Heinen
mo day yr time (signature)

mments:

e 6/1/11 Received by Melinda M Pine Time 0600
mo day yr (signature)

mments: Rec'd for Metals Lab

e 6/1/11 Received by [illegible] Time 0930
mo day yr (signature)

ments:

Date 11/3/11 (mo day yr) Received by [illegible] (signature) Time 0900

Comments: 7.002 mg

Date 6/1/11 (mo day yr) Received by Bonnie Hanson (signature) Time 1430

Comments: No moisture; for storage

Date / / (mo day yr) Received by _____ (signature) Time _____

Comments: _____

Date / / (mo day yr) Received by _____ (signature) Time _____

Comments: _____

Date / / (mo day yr) Received by _____ (signature) Time _____

Comments: _____

Date / / (mo day yr) Received by _____ (signature) Time _____

Comments: _____

Date / / (mo day yr) Received by _____ (signature) Time _____

Comments: _____

Date / / (mo day yr) Received by _____ (signature) Time _____

Comments: _____

Date / / (mo day yr) Disposal by _____ (signature)

Environmental Laboratory Section – Division of Water Resources
Delaware Department of Natural Resources & Environmental Control
89 Kings Highway, Dover, DE 19901 (302) 739-9942

ORGANIC CHEMISTRY LABORATORY
EXTRACTION SUMMARY

Project: Procino Plating **Order Number** 1105054 **Date:** 6/1/11
Surrogate Std No. SW1127 **MS Std. No.** SW1134

ELS Sample ID	Amount Extracted (mL/G)	Final Volume (mL)	Observations
MBLL	30.00	1.0	
LCS-5			
1105054 002			
002			MS-5
002			MSD5
003			
004			
005			
006			

Comments:

Extracted by: [signature] Date: 6/1/11

00020

Environmental Laboratory Section -- Division of Water Resources
Delaware Department of Natural Resources & Environmental Control
89 Kings Highway, Dover, DE 19901 (302) 739-9942

ORGANIC CHEMISTRY LABORATORY
EXTRACTION SUMMARY

Project: Procinto Plating **Order Number** 1105054 **Date:** 6/3/11
Surrogate Std No. SW1127 **MS Std. No.** SW1134

ELS Sample ID	Amount Extracted (mL/G)	Final Volume (mL)	Observations
MBLL2	30.00	1.0	
LCS-S	↓	↓	
1105054-002	↓	↓	MS-S

Comments:

Extracted by: [signature] Date: 6/3/2011

00022

00075

Environmental Laboratory Section - DNREC - Div. of Water Resources
89 Kings Highway, Dover, DE 19901
(302)739-9942

SEMIVOLATILES
DEL 6
INSTRUMENT RUN LOG

Project Name(s): Calibration
SDG No(s): NA
Target Parameters: TCL SVOA
Analytical Method 8270D

Tracking No(s):
DFTPP: SW1143
Target Cmpds: SW1149/50
ISTDs: SS699

DATAFILE NAME	LAB ID	SAMPLE INFORMATION	RUN DATE	COMMENTS
A07776	—	DFTPP 50ng	6/8/2011	
A07777	SSTD050	BNA Mix 102 050		
A07778	020	020		
A07779	080	080		
A07780	120	120		
A07781	160	160		

Analyzed by: [signature]
Date: 6/8/2011

Data Directory: ~~[illegible]~~ MS60608d.mjz

00076

Environmental Laboratory Section - DWRC - Div. of Water Resources
89 Kings Highway, Dover, DE 19901
(302)739-9942

SEMIVOLATILES
DEL 6
INSTRUMENT RUN LOG

Project Name(s): Discovery Plating
SDG No(s): 1105054
Target Parameters: TCL SVOA
Analytical Method 8270D

Tracking No(s):
DFTPP: SW1143
Target Cmpds: SS1149 | 50B
ISTDs: SS699

DATAFILE NAME	LAB ID	SAMPLE INFORMATION	RUN DATE	COMMENTS
A07776	—	DFTPP	6/8/11	
A07777	SSTD050	BNA Mix 102 050		
A07782	MBLK	Medium Blank		
A07783	MBLK2	2		
A07784	LCS	LCS-S		
A07785	1105054-002	MW03		
A07786	002	MS-S		
A07787	002	MSD-S		
A07788	003	SB01		
A07789	004	SB05		
A07790	005	MW06		
A07791	006	SB04		
A07792	SSTD050	BNA Mix 102 050		

Analyzed by: [signature]
Date: 6/8/2011

Data Directory: MS6D60087.mj2

Environmental Laboratory Section
Delaware DNREC - Division of Water Resources
89 Kings Highway, Dover DE 19901 (302) 739-4771

PERCENT MOISTURE (Wet Weight Determination)

	Date	Analyst	QCType	Weight (g)	Acceptance Range (+/-) (g)	Tare + Standard (g)	Time Standard Weight	Calibration Verified?
Wet Weights:	6/1/2011	rlh	CCVBL	1	0.0003	1.0000	14:43:51	Pass
			CCVB	10	0.0004	10.0000	14:44:10	Pass
Dry Weights:	6/2/2011	rlh	CCVEL	1	0.0003	1.0000	07:10:11	Pass
			CCVE	10	0.0004	10.0000	07:10:35	Pass

Parse %M Worksheet

ELS Sample Number	QC	Decanted (D) or Not Decanted (ND)	Inorganic (I) or Organic (O)	Dish #	T = Tare (g)	Tare Time	W1 = Tare + Wet Sample(g)	Wet Weight Time	W2 = Tare + Dry Sample (g)	Dry Weight Time	WW = Wet Weight (W1 - T) (g)	DW = Dry Weight (W2 - T) (g)	%Moisture = 100*(WW-DW)/WW	% Solids = (DW/WW)*100	Solids Ratio = 100/%Solids	Duplicate RPD
1105044-002		ND	I	1	0.9852	14:45:21	8.2482	14:58:46	7.1263	07:11:38	7.2629	6.1411	15.4458112	84.6	1.1820	
1105044-003		ND	I	2	0.9982	14:45:44	8.8304	14:59:26	8.1288	07:11:56	7.8322	7.1305	8.958796965	91	1.0989	
1105044-004		ND	I	3	1.0092	14:46:04	8.3875	15:00:32	7.1838	07:12:22	7.3783	6.1746	16.31484717	83.7	1.1947	
1105044-005		ND	I	4	1.0134	14:46:24	8.7055	15:01:29	7.9262	07:12:51	7.6921	6.9128	10.13100403	89.9	1.1123	
DUPLICATE	1105044-005	ND	I	5	1.0132	14:46:49	8.7056	15:03:35	7.9047	07:13:17	7.6924	6.8914	10.41260151	89.6	1.1161	3%
1105044-006		ND	I	6	1.0123	14:47:08	8.1231	15:04:31	7.3686	07:13:47	7.1108	6.3563	10.61024334	89.4	1.1186	
1105044-007		ND	I	7	0.9934	14:47:36	8.1000	15:05:25	7.0691	07:14:20	7.1066	6.0757	14.50625405	85.5	1.1696	
1105044-008		ND	I	8	1.0021	14:48:01	8.1149	15:06:22	7.4646	07:14:59	7.1128	6.4625	9.142148558	90.9	1.1001	
1105044-009		ND	I	9	0.9812	14:48:24	8.7527	15:08:07	6.8971	07:15:23	7.7715	5.9159	23.877311	76.1	1.3141	
1105054-002		ND	IO	10	0.9905	14:48:44	8.8189	15:08:50	8.2331	07:15:46	7.8284	7.2426	7.483256498	92.5	1.0811	
1105054-003		ND	IO	11	0.9780	14:49:06	8.6920	15:09:40	8.3954	07:16:06	7.7140	7.4174	3.844817618	96.2	1.0395	
1105054-004		ND	IO	12	0.9994	14:49:32	8.2213	15:11:24	8.0603	07:16:28	7.2220	7.0610	2.229031691	97.8	1.0225	
DUPLICATE	1105054-004	ND	IO	13	0.9920	14:49:51	8.2206	15:12:47	8.0636	07:16:49	7.2286	7.0717	2.171777817	97.8	1.0225	3%
1105054-005		ND	IO	14	1.0165	14:50:17	8.1763	15:13:46	7.6962	07:17:11	7.1599	6.6797	6.705978312	93.3	1.0718	
1105054-006		ND	IO	15	1.0070	14:50:39	8.0850	15:14:44	7.6106	07:17:30	7.0780	6.6035	6.70291058	93.3	1.0718	
1105055-002		ND	I	16	1.0015	14:51:06	8.4409	15:15:57	7.7083	07:17:53	7.4395	6.7069	9.847596875	90.2	1.1086	
1105055-003		ND	I	17	1.0139	14:51:25	8.2070	15:16:52	7.4777	07:18:11	7.1931	6.4638	10.13864734	89.9	1.1123	
1105055-004		ND	I	18	0.9982	14:51:45	8.7176	15:18:23	7.9062	07:18:35	7.7194	6.9080	10.51117963	89.5	1.1173	
1105055-005		ND	I	19	1.0195	14:52:13	8.4694	15:19:36	8.2842	07:18:56	7.4499	7.2648	2.484996463	97.5	1.0256	
1105055-006		ND	I	20	1.0232	14:52:37	8.4854	15:20:42	7.6363	07:19:15	7.4621	6.6131	11.37796932	88.6	1.1287	

Analyst Signoff: Renee Herman Date: 6/2/11
Review by: [illegible] Date: 6/2/11